



Electrical system

Trucknology Generation A (TG-A)

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Wiring diagrams
2nd Edition K 90

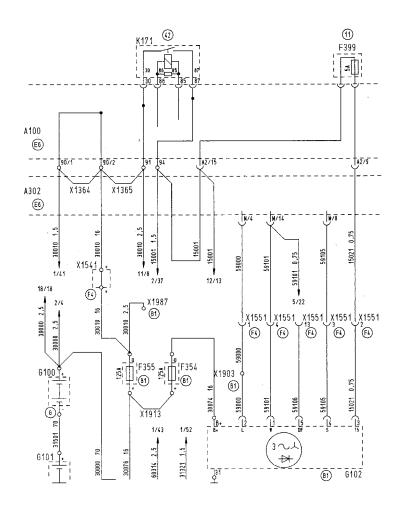
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Wiring diagrams K 90 (2nd edition)

Trucknology Generation A (TG-A)





Subject to technical changes in the course of continuing development.

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Preface

All series and additional wiring diagrams are documented in the instructions for the "wiring diagrams".

The **series wiring diagrams** (Ch. 3.00) and the **additional wiring diagrams** (Ch. 4.00) are shown in detail to include legends and the names of the circuits.

The present manual is based on wiring diagrams that have been created with the help of a graphics program (CAD).

This allows the instructions to be updated at short notice.

This manual represents the series status of the vehicle on the copy deadline date.

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Abbreviations As of: 11.01

a Acceleration

ABE General operating permit
ABS Anti-lock brake system
ABV Anti-skid system
AC Air conditioning

ACC Adaptive cruise control

ACK Autocheck

ADC Analog-digital converter

ADR International agreement for the transport of dangerous goods

Ą

AGB Automatic road speed limiter

AGND Analog ground

AGR Exhaust gas recirculation (EGR)

AHK Trailer coupling
AHV Trailer brake valve

ALB Automatic load-dependent brake

AMA Antenna mast system
ANH Trailer/semitrailer
AS Automated gearbox
ASD Trailer socket

ASM Trailer control module
ASR Anti-spin regulator
ASV Trailer control valve

ATC Automatic temperature control
ATF Automatic transmission fluid

AU Emission test **AV** Exhaust valve

AVS Automatic gear preselection

BA Operator's manual
BBA Service brake system
BBV Service brake valve
BKR Brake power regulator

BUGH Front heater
BV Back-up valve
BVA Brake wear indicator
BVS Brake wear sensor

BVV Brake wear sensor supply
German Army

BW German Army
BWG Brake value sensor
BZ Brake cylinder

CAN-H CAN-high data line
CAN-L CAN-low data line

CATS Computer-assisted testing and diagnostic system

CCVS Cruise control vehicle speed
CKD Completely knocked down
CNG Compressed natural gas
CPU Central processing unit

CRT Continuously regenerating trap

CS Comfort shift

DAHL Roof ventilator
DBR Auxiliary brake relay
DECKE Cover (for doors)
DF Speed sensor
DFÜ Data transmission

DIA Diagnosis and information display

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Abbreviations

DIAK Diagnosis, K-line (data line) DIAL Diagnosis, L-line (interrogation line) DIAR Diagnosis, further interrogation DIN German industrial standard Throttle valve increase (ASR control) DKE DKH Roof duct heating DKL Roof flaps Throttle valve reduction (reduction request from ASR to EDC/EMS) **DKR** DKV Throttle valve specification (load sensor signal from EDC/EMS pedal value sensor) DLB Compressed air brake system Diagnostic message DM Drive - Neutral - Reverse (selector switch for automatic gearbox) **DNR DPF** Diesel particulate filter DRM Pressure control module Pressure sensor DS DSV Pressure control valve Throttle valve DV Anti-theft protection system **DWA** DZG Rpm sensor Rev counter DZM **EBS** Electronic brake system Electronically controlled air management **ECAM ECAS** Electronically controlled air suspension **ECE** Emergency shut-off to ECE 36 **ECU** Electronic control unit **EDC** Electronic diesel control Electronic diesel consumption meter **EDM EDR** Maximum speed governor **EEC** Electronic engine controller **EEPROM** Electrically erasable and programmable read-only memory Electronic shock absorber control (ESAC) **EFR EFS** Electrical driver's seat **EHAB** Electro-hydraulic shut-off device ELAB Electrical shut-off device ELF Electronic air suspension Electronic throttle control (ETC) **EMS EMV** Electromagnetic compatibility (EMC) End-of-line (programming) EOL EP Injection pump ER Engine retarder (engine brake) **ESAC** Electronic shock absorber control **ESP** Electronic stability program **ESR** Electric sun-blind **EST** Electronic control unit ΕV Intake valve **EVB** Exhaust valve brake **FAP** Driver's area **FAQ** Frequently asked questions **FBA** Parking brake system Dynamic handling control **FDR FFR** Vehicle management computer (VMC) Road speed limiter (RSL) **FGB** Road speed governor (RSG) **FGR FHS** Cab FIN Vehicle identification number (VIN)

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Vehicle management

Failure mode identification

FΜ

FMI

Abbreviations

FMR Vehicle/engine management

FOC Front omnibus chassis (bus/coach chassis with front-mounted engine)

FSCH Windscreen heater

FSG Ground reinforcement system

FSH Window/mirror heating

FTW Driver's partition

FUNK Radio communication unit

FZA Destination system

GDK Controlled diesel catalytic converter

GEN Alternator
GET Gearbox

GGVS Regulations for the transport of hazardous goods

GND Ground

GP Gearbox planetary gear group (range-change box)

GS Gearbox control

GV Gearbox splitter gear group (splitter box)

HA Rear axle

HBA Auxiliary brake systemHGB Maximum road speed limiter

HGS Hydraulic gearshift **HLUE** Hydrostatic fan

HOC Rear omnibus chassis (bus/coach chassis with rear-mounted engine)

HSS Highside switch
HST Main control panel
HU Main inspection

Hz Hertz (number of cycles per second)

HZA Bus stop indicator systemHZG Auxiliary rpm sensor

IBEL Interior lighting

IBIS Integrated on-board information system

IC Integrated circuit ID Identification

IMR Integrated mechanical relay (starter control)INA Information indicator (e.g. check lamp)

IR Individual control (ABS)

IRM Modified individual control (ABS)
 ISO International Standards Organisation
 IWZ Incremental angle/time measuring system

KBZ Combination brake cylinder

KFH Fuel filter heater

KITAS Kienzle intelligent tachograph sensor

KLI Air-conditioning system

KNEEL Kneeling

KSM Customer-specified control module

KSW Customer's special request

KWP Key word protocol (protocol for MAN-cats diagnosis)

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LBH Air reservoir

LCD Liquid crystal display

LDA Manifold-pressure compensator (boost control)

LDF Boost pressure sensor
LDS Air spring/damper system
LED Light emitting diode
LF Air suspension

LGS Lane guard system

ELECTRICAL SYSTEM

Abbreviations

LL Idling speed LLA Idling speed increase LLR Idling speed control LNG Liquified natural gas LOE Steering oil monitor LPG Liquified petroleum gas **LWR** Headlight beam regulator M-TCO Modular EU tachograph Solenoid valve shut-off (engine shut-off by means of high-pressure solenoid valve in injection MAB pump)

MAN-cats MAN computer assisted testing and diagnostic system)

MAR Solenoid valve shut-off relay (redundant engine shut-off relay)

MDB Engine speed range MES Fuel metering control

ML Midline

MMI Man-machine interface

MOTB Engine brake

Engine power box (cable duct on engine block) MP

Engine governor - ASR MR **MSG** Engine control unit (EDC)

MV Solenoid valve ΜZ Diaphragm cylinder

rpm n

NA Power take-off (PTO) **NBF** Needle movement sensor New electronic structure NES NFZ Commercial vehicle

NLA Trailing axle Rear fog lamp NSL Front fog lamp NSW

OBDU On-board diagnostic unit

Occurrence count (errors/faults) OC

OEAB Oil separator **OENF** Oil top-up

Pressure

PBM Pulse breadth modulation (→ also see PWM)

PLM Programmable logic module **PSG** Pump control unit (EDC)

PTO Power take-off

PWM Pulse width modulation (→ also see PBM)

RA Repair manual RAH Interior heating

RAM Random access memory RAS Rear axle steering

RAS-EC Rear axle steering with electronic control

RDRA Tyre pressure control system

RDS Radio data system

RET Retarder

RKL Priority vehicle light

RLV Relay valve

Rape seed oil methyl ester (biodiesel) **RME**

ROM Read only memory

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Abbreviations

SA Special equipment

SAE Society of Automotive Engineers

SAMT Semi-automatic mechanical transmission

SB Service outlet sec Second

SER Series (production)

SG Control unit

SH Select-high control (ABS) SKD Semi-knocked down SL Select-low control (ABS) SML

Side marker light

SPN Suspect parameter number

STA Engine start/stop

SWR Headlight cleaning system

t Time

TC Traction control **TCM** Trailer control module

TCO Tachograph

TKU Technical customer document **TMC** Traffic message channel

TRS Technical road transport directives **TSC** Torque speed control (braking torque)

TUER Door control

U_{Bat} Battery voltage **UDS** Crash recorder

Velocity/vehicle speed

VA Front axle ۷G Transfer case **VLA** Leading axle

WA Maintenance manual **WAB** Water separator **WLE** Swap-body unit Warning relay WR WS Position sensor

WSK Torque converter and clutch unit

Braking rate/deceleration **ZBR** Central on-board computer **ZBRO** Central on-board bus computer **ZDR** Intermediate speed governor (ISG) Central electrical system (CES) ZΕ

ZR Central computer ZS Central lubrication **ZUSH** Auxiliary heater

ZWS Time-based maintenance system

λ

Coefficient of friction

μC Microcontroller (microprocessor)

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Notes on safety

The following sections include summaries of important regulations listed according to major topics. The intention is to provide the knowledge needed to avoid accidents which could lead to injury, damage and environmental pollution.

Additional instructions are included in the Operator's Manual that is provided with the vehicle.

Important:

Accidents may happen in spite of all precautionary measures having been taken. In such an eventuality, **obtain immediate medical assistance from a doctor.** This is particularly important if the accident involves skin contact with corrosive acid, fuel penetration under the skin, scalding by hot oil, antifreeze spraying into eyes etc.

Regulations for preventing accidents leading to injury to personnel.

Only authorised technical personnel are allowed to perform inspection, adjustment and repair work.

- Secure the vehicle to prevent it from rolling away.
- Support the frame when working on the pneumatic or spring suspension system.
- Secure units during their removal.
- Only authorised personnel are allowed to start and operate the engine.
- Do not approach moving parts of a running engine too closely. Do not wear baggy clothing.
- Do not touch the engine with your bare hands when it is at operating temperature: Risk of burns!
- Keep the area around the engine, ladders and steps free from oil and grease. Accidents caused by slipping can have serious consequences.
- Only use tools that are in perfect condition. Damaged or widened spanners can slip: Risk of injury!
- No-one is allowed to stand under an engine suspended from a crane hook.
 Keep all lifting tackle in good condition -.
- Collect any brake fluid that emerges. Treat brake fluid as hazardous waste!
 Comply with the safety regulations for preventing environmental pollution.
- Brake fluid is toxic! Do not allow it to come into contact with food or open wounds.
- Do not open the coolant circuit until the engine has cooled down. If it does need to be opened whilst the engine is at operating temperature, follow the instructions in the "Maintenance and care" section in the Operator's Manual.
- Do not attempt to retighten or open pipe lines and hoses (lubricating oil circuit, coolant circuit and possible subsequent hydraulic oil circuit) whilst they are pressurised: Fluid spraying out represents an injury hazard!
- Do not hold your hands under the jet of fuel when checking the injector nozzles.
 Do not inhale fuel vapours.













1.20 - 1

· Always disconnect the batteries before working on the vehicle electrical system.

Important! Oxyhydrogen gas may form in enclosed battery boxes. When the batteries are disconnected, this gas may be ignited by sparks produced by other continuously operating consumers, the tachograph etc. that cannot be shut down. Blow compressed air through the battery box before disconnecting the batteries!

- Only tow-start the vehicle if the batteries are connected (minimum charge 40%)!
 Do not use a boost-charger to jump-start the vehicle! Always disconnect the positive and negative leads before boost-charging batteries!
- Disconnect the batteries and recharge them every 4 weeks if the vehicle is not in use.

Caution! Battery acid is poisonous and corrosive. Battery gases are explosive.

- · Follow the manufacturer's instructions for handling batteries.
- Measure voltage only using suitable measuring devices!
 The input resistance of a measuring device should be at least 10 MΩ.
- The ignition must be switched off before the wiring harness plugs of electronic control units are disconnected or connected up!

When performing electrical welding work, connect up the "ANTIZAP SERVICE MONITOR" (MAN item number 80.78010.0001) or the improved SES-1 version (MAN item number 80.78010.0002) in accordance with the instructions supplied with the device.

If this device is not available, disconnect the batteries and join the positive cable to the negative cable in order to make a conductive connection.

Always earth the welding equipment as close as possible to the welding area. Do not lay the cables to the welding equipment in parallel to electrical cables in the vehicle.

For further accident prevention measures, please refer to the "Leaflets for welders".

The frame is **not** intended for use as an earth return!

- If attachments are to be retrofitted to the vehicle e.g. a taillift additional earth lines with adequate cross-section must be fitted as well. Otherwise the earth connection may be created along wire cables, wiring harnesses, gearbox shafts, gears etc. Severe damage could result.
- If painting work is to be carried out, do not expose the electronic components to high temperatures (max. 95 °C) for more than brief periods; a time of up to around 2 hours is permissible at a maximum of 85 °C. Disconnect the batteries.

Plastic tubes (polyamide)

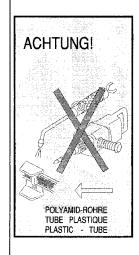
Important! - Risk of damage and fire!

• The warning sign opposite can be found on the co-driver's door below the door lock. It warns you against welding or drilling near to plastic tubes.









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Limited liability for accessories and parts

In your own interests, you are recommended to use only accessories expressly approved by MAN and genuine MAN parts for your MAN vehicle. The reliability, safety and suitability of these parts and accessories have been determined specifically for MAN vehicles. Despite constant market observation, we cannot judge the aspects of other products, nor can we accept responsibility for them — even if they have been officially approved by the German TÜV technical inspection authorities or some other official body.

Bodies and special attachments

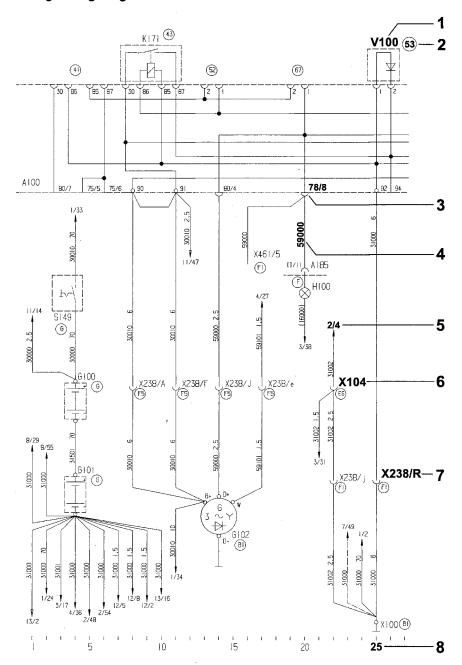
Comply with the safety instructions and regulations issued by the bodymaker in question if bodies or special attachments are fitted.

Taking out of operation or putting into storage

The special measures described in MAN Works Standard M 3069 Part 3 apply if buses or trucks are to be withdrawn from service or stored for a period longer than 3 months.

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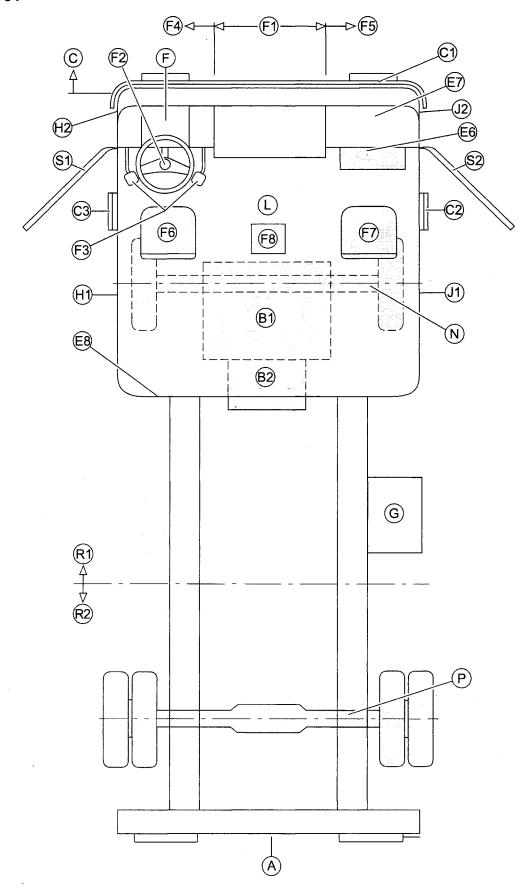
Instructions for using wiring diagrams



- Name of component (here: diode V100 on the central fuse, relay and terminal box ("ZE"), position 53)
- Mounting position on the front panel of the central fuse, relay and terminal box ("ZE") (here: engraved position number 53)
- Plug connector on the rear of the central fuse, relay and terminal box ("ZE") (here: plug 78, connection 8)
- 4 Cable number; printed on the cable at short intervals (cross-section only if greater than 1²)
- 5 Sheet number (not page number) and circuit number Marking to show on which sheet and circuit the conductor continues (here: continuation of conductor 31002 on sheet 2 on circuit 4)
- 6 Plug connector (here: single-pin connector X104 in the ZE area)
- 7 Component mounting position (here: 21-pin connector X238 Pin R
- wiring harness cab to engine in central portion)
 Circuit number (please note: sheets are numbered consecutively from 1 to 55)

Important note on the use of the wiring diagram legends: A three-digit number is shown in brackets after various item numbers. This number is the coded part number for this component! These part numbers can be found in the **T60** device list.

Mounting positions for left-hand drive



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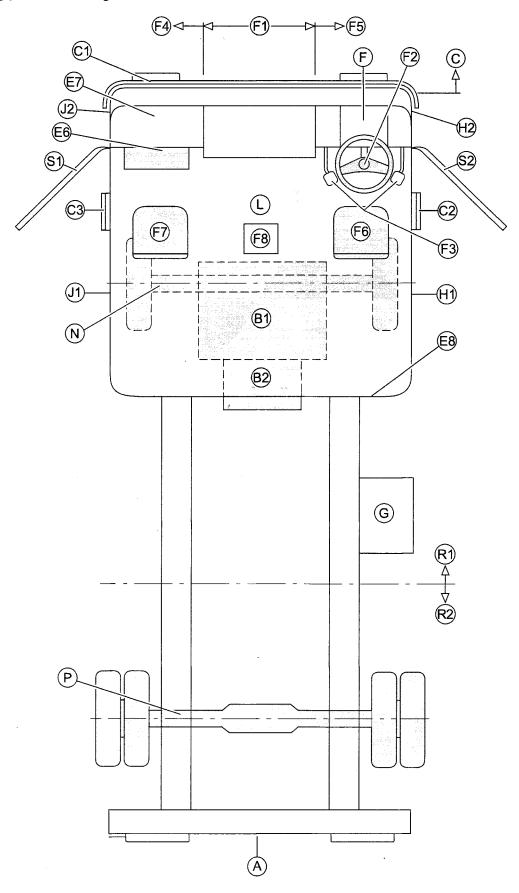
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Mark	s	Mounting position
A .		Tail
B1) .		Engine
B2 .		Gearbox
©		Front
(0)		Bumper
©2)		Entrance right
©3		Entrance left
E6 .		Central electrics area
E7 .		Control unit racks
E8 .		Rear wall of cab
F .		
F1 .		Instrument panel
F2 .		Central part
F3 .		Steering wheel/column
F4 .		Foot pedals
F5 .		Front wall, inside left
(F6)	<u> </u>	Front wall, inside right
		Driving seat
F7 .		Passenger seat
F8 .		Control panel
<u> </u>		Battery box
H1 .		B-pillar on driver's side
H2 .		A-pillar on driver's side
<u> </u>		B-pillar on passenger's side
J2 .		A-pillar on passenger's side
L .		Ceiling/roof
N .		Front axle
P .		Rear axle
R1 .		Front parts of frame
(R2) .		Rear part of frame
(S1) .		Door left
(S2)		Door right
-		···g····

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K 90 1.60 - 3

Mounting positions for right-hand drive



1.60 - 4 K 90

Marks	Mounting position
(A)	Tail
(B1)	Engine
(B2)	Gearbox
©	Front
©)	Bumper
©2	Entrance right
©	Entrance left
(E6)	Central electrics area
(E7)	Control unit racks
E8	Rear wall of cab
F	Instrument panel
(F1)	Central part
(F2)	Steering wheel/column
F3	Foot pedals
(F4)	Front wall, inside left
(F5)	Front wall, inside right
(F6)	Driving seat
(F7) ,	Passenger seat
	Control panel
(G)	•
(H1)	Battery box
(H2)	B-pillar on driver's side
(J1)	A-pillar on driver's side
<u>(12)</u>	B-pillar on passenger's side
	A-pillar on passenger's side
	Ceiling/roof
(P)	Front axle
(R1)	Rear axle
(R2)	Front parts of frame
(S)	Rear part of frame
(S2)	Door left
	Door right

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LL SERIES WIRING DIAGRAMS

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Legend

Wiring diagram no. **81.99192.2981** Sheet **1** of 21 Change status: 03.01

A = Supply voltage, starting system

- A100 (255) Central fuse, relay and terminal block
- A302 (352) Central computer 2
- A403 (339) Vehicle management computer
- A435 (338) EDC control unit
- **F**354 (132) Main fuse (terminal 30-1)
- F355 (132) Main fuse (terminal 30-2)
- F399 (111) Generator fuse (terminal 15)
- G100 (113) Battery 1
- G101 (113) Battery 2
- G102 (114) Generator
- K171 (150) Relay consumer (terminal 15)
- K755 (280) Relay for starter control
- M100 (144) Starting motor
- Q101 (110) Steering wheel lock
- **X**100 Earthing point, engine X669 Styd. start inhibitor
- X1364 (176) Bridge, central fuse, relay and terminal box, central vehicle computer 90/1-90/2
- X1365 (176) Bridge, central fuse, relay and terminal box, central vehicle computer 90/2-91
- X1539 (188) Stvd. potential insulator -
- X1541 (189) Stvd. potential insulator +
- X1549 Stvd. engine/EDC/transmission I
- X1551 Stvd. engine/EDC/transmission II
- X1644 Earthing point, cab, adjacent to central fuse, relay and terminal block
- X1754 Soldered connector, line 59104
- X1830 (221) Crimped connector, line 31002 X1903 Threaded bolt M6 (MP box)

Marking of mounting positios

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Signal, engine is running

- X1904 Threaded bolt 5 (MP box) X1913 (199) Bridge, line 3000 (MP box)
- X1966 Stvd. ignition loc
- X1988 Threaded bolt 5 (MP box)

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Legend

Wiring diagram no. **81.99192.2981** Sheet **1** of 21 Change status: 03.01

A = Supply voltage, starting system

- A100 (255) Central fuse, relay and terminal block
- A302 (352) Central computer 2
- A403 (339) Vehicle management computer
- A435 (338) EDC control unit
- **F**354 (132) Main fuse (terminal 30-1)
- F355 (132) Main fuse (terminal 30-2)
- F399 (111) Generator fuse (terminal 15)
- G100 (113) Battery 1
- G101 (113) Battery 2
- G102 (114) Generator
- **K**171 (150) Relay consumer (terminal 15)
- K755 (280) Relay for starter control
- M100 (144) Starting motor
- Q101 (110) Steering wheel lock
- X100 Earthing point, engine X669 Styd. start inhibitor
- X1364 (176) Bridge, central fuse, relay and terminal box, central vehicle computer 90/1-90/2
- X1365 (176) Bridge, central fuse, relay and terminal box, central vehicle computer 90/2-91
- X1539 (188) Stvd. potential insulator -
- X1541 (189) Stvd. potential insulator +
- X1549 Stvd. engine/EDC/transmission I X1551 Stvd. engine/EDC/transmission II
- X1644 Earthing point, cab, adjacent to central fuse,
 - relay and terminal block
- X1754 Soldered connector, line 59104 X1830 (221) Crimped connector, line 31002
- X1903 Threaded bolt M6 (MP box)

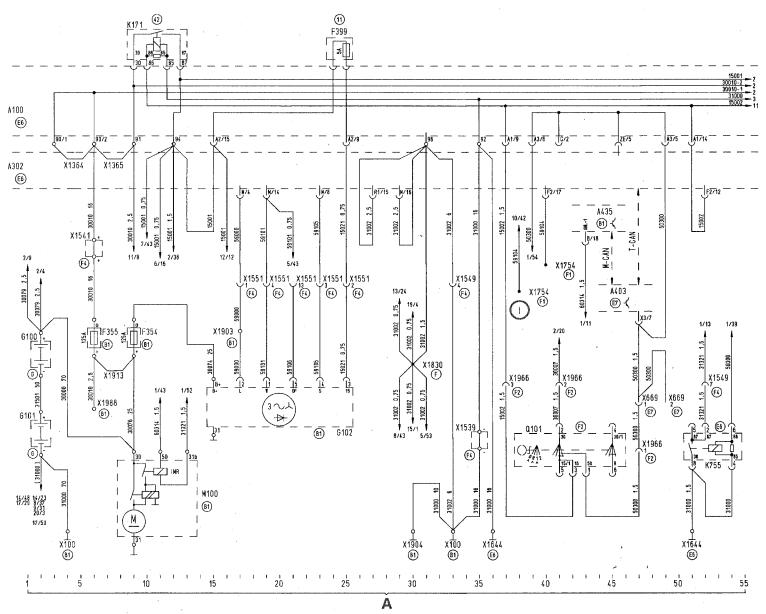
Marking of mounting positions

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- © Entrance left
- 🖲 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Signal, engine is running

- X1904 Threaded bolt M6 (MP box)
- X1913 (199) Bridge, line 30000 (MP box)
- X1966 Stvd. ignition lock
- X1988 Threaded bolt M5 (MP box)

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 1 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **2** of 21 Change status: 03.01

- A = Supply voltage, central vehicle computer
- B = Power supply intarder, EBS, ECAS
- C = Power supply retarder
- D = Power supply vehicle management computer
- A100 (255) Central fuse, relay and terminal block
- A302 (352) Central computer 2
- A403 (339) Vehicle management computer
- **F**152 (101) Fuse retarder (terminal 15)
- F160 (105) Fuse EBS/ABS power supply, trailer
- F161 (103) Fuse EBS/ABS power supply pressure control valve
- F162 (111) Fuse EBS/ABS control
- F164 (101) Fuse ECAS (terminal 30)
- F243 (105) Fuse central vehicle computer, permanent positive
- F244 (105) Fuse central vehicle computer (terminal 30-1)
- F245 (105) Fuse central vehicle computer (terminal 30-2)
- F246 (101) Fuse central vehicle computer (terminal 15)
- F371 (101) Fuse vehicle management computer (terminal 30)
- F372 (116) Fuse vehicle management computer (terminal 15)
- F374 (101) Fuse intarder/retarder (terminal 30)
- F400 (101) Fuse steering wheel lock
- F522 (105) Fuse, lead 30000
- F523 (105) Fuse, lead 30000
- **X**1064 (104) Bridge on central fuse, relay and terminal box 2 item 37 (Pin 1-2)
- X1557 Stvd. frame left
- X1644 Earthing point, cab, adjacent to central fuse,
 - relay and terminal block

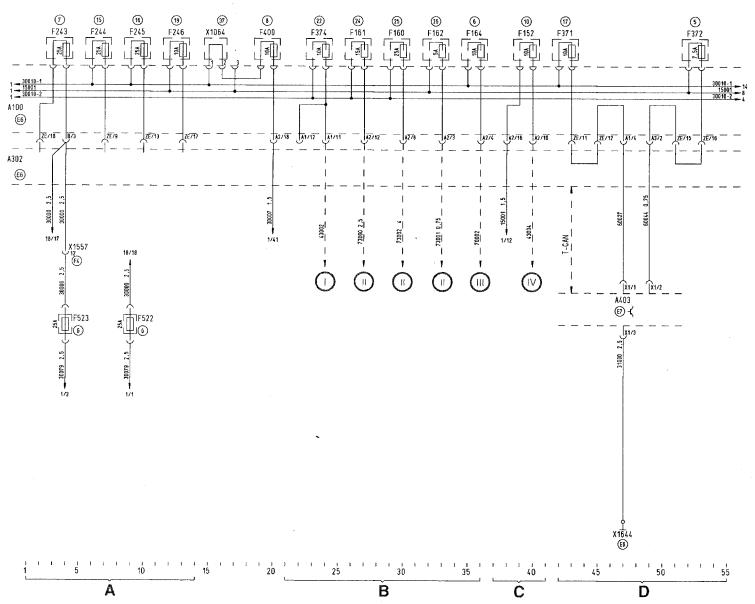
Marking of mounting positions

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab.
- Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- (Intarder
- Electronic braking system (EBS)
- (III) Electronically controlled air suspension (ECAS)

- 6 Driving seat
- F7 Passenger seat
- F8 Control-panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J) B-pillar on passenger's side
- 42 A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

LL SERIES WIRING DIAGRAMS

Wiring diagram no. 81.99192.2981 Sheet 2 of 21



LL SERIES WIRING DIAGRAMS

Legend

Wiring diagram no. **81.99192.2981** Sheet **3** of 21 Change status: 03.01

A = Earth distributor

A 100	(255)	Central fuse, relay and terminal block
A302	(352)	Central computer 2

X1829 (221) Crimped connector, line 31000

X2541 (246) Potential distributor 21-pin, line 31000

X 1569		Stvd. locker lighting
X1570		Stvd. locker lighting, right
X1642		Earthing point, cab, behind instrument panel
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X1825	(221)	Crimped connector, line 31000
X1826	(221)	Crimped connector, line 31000
	. ,	Crimped connector, line 31000

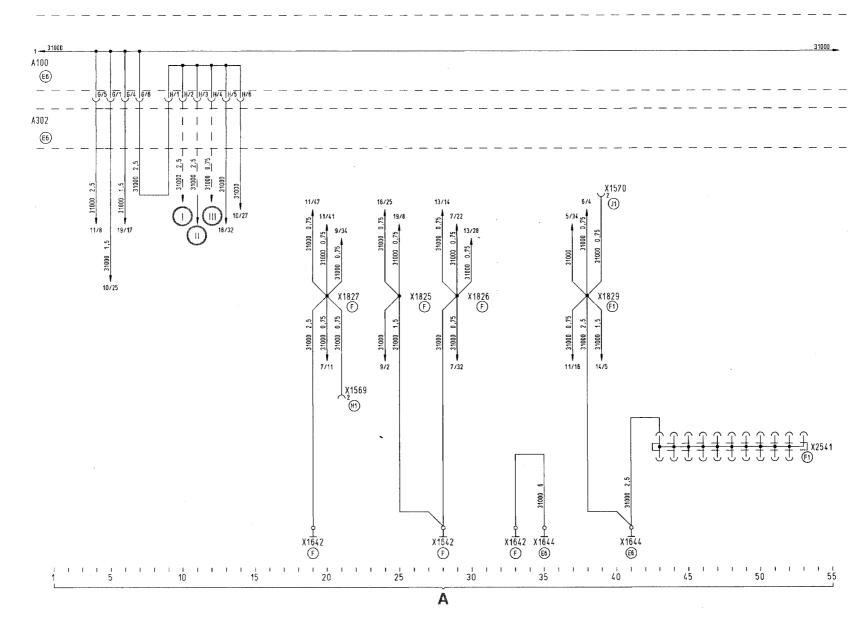
Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (f) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Door module, driver's side
- Door module, passenger's side
- Door module

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2981 Sheet 3 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **4** of 21 Change status: 03.01

A = Flame start device

B = Fan clutch

C = Coolant temperature, EDC

D = Coolant level

E = Reserve lines, engine START-STOP

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A403 (339) Vehicle management computer

A407 (342) Instrumentation A435 (338) EDC control unit

B124 (265) Temperature sensor, coolant water (EDC)

B139 (272) Coolant level sensor

F106 (107) Fuse, flame start device

H101 Indicator light flame start device

K102 (150) Relay flame start device

R100 (144) Flame glow plug 1

R101 (144) Flame glow plug 2

S580 Control switch, engine start (MP box) Control switch, engine stop (MP box)

X1549 Stvd. engine/EDC/transmission I X1551 Stvd. engine/EDC/transmission II

X1904 Threaded bolt M6 (MP box)

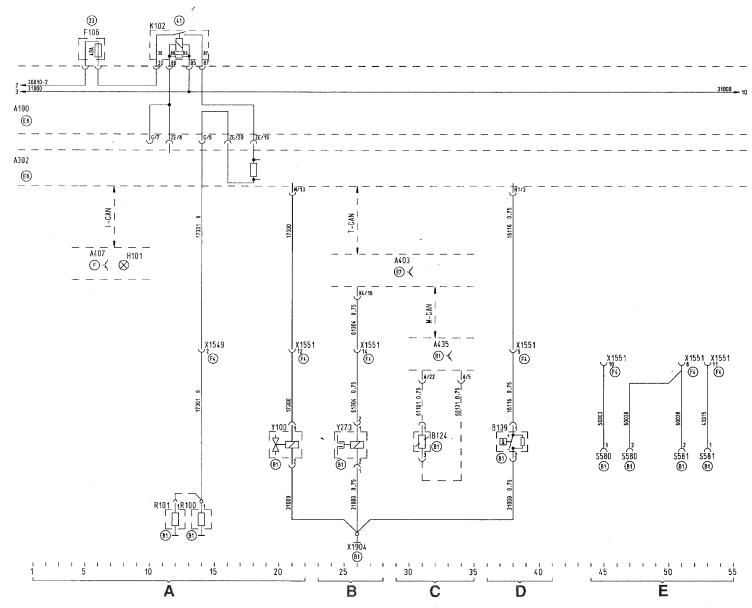
Y100 (189) Solenoid valve, flame start device

Y273 (190) Solenoid valve, fan clutch

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 4 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **5** of 21 Change status: 03.01

A = Steering hydraulic fluid level

B = Diagnosis

C = Pressure pickup, air filter

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

B371 (318) Steering oil level switch B433 (273) Pressure pickup, air filter

X200 (201) Plug, diagnostics

X1549 Stvd. engine/EDC/transmission I

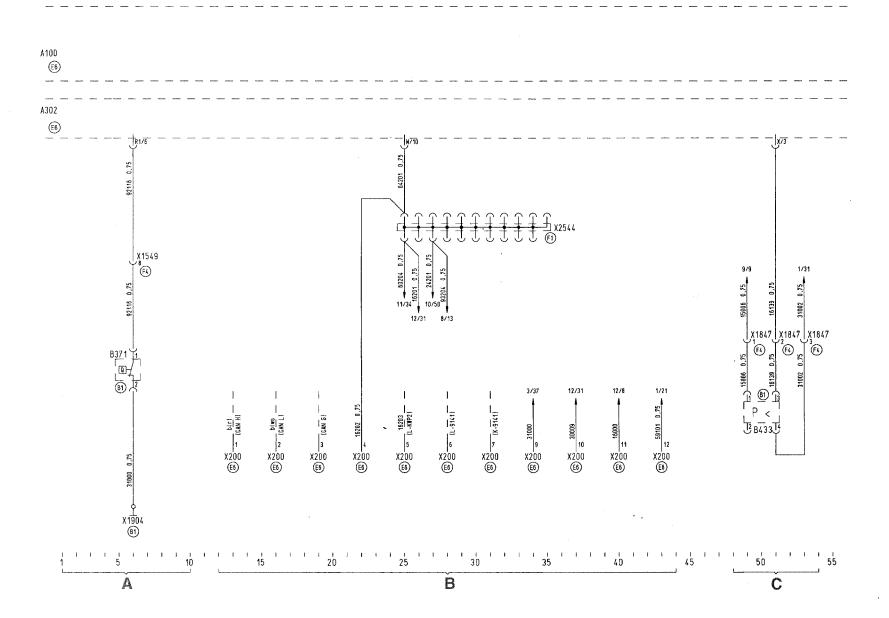
X1847 Stvd. pressure pickup, air filter X1904 Threaded bolt M6 (MP box)

X2544 (246) Potential distributor, 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 5 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **6** of 21 Change status: 03.01

A = Clutch fluid level sensor

B = Heating thermostat

C = ZDR interface (vehicle management computer) (MDB, HGB)

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A403 (339) Vehicle management computer

B434 (272) Clutch fluid level sensor

F582 (117) Fuse, vehicle management computer (terminal 15) ZDR/interface

R134 (146) EDC resistor group

X1551 Stvd. engine/EDC/transmission II

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1972 Stvd. pedals, external

X1996 Stvd. intermediate speed control interface (FFR)

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- F1 Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Power take-off 1
- Power take-off 2
- Special customised module

- F6 Driving seat
- Passenger seat
- © Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 6 of 21 A100 A403 (E7) -{ [x3/9 [x3/11 [x2/1 | X1996 | X196 | X1996 X 1996 14 F5 | X1996 | X196 | X1996 | X196 | X1 X1644 (E6) A B

Legend

X1968

Wiring diagram no. **81.99192.2981** Sheet **7** of 21 Change status: 03.01

A = Cruise control

B = Vehicle speed control/vehicle speed limiting, additional retarding brake

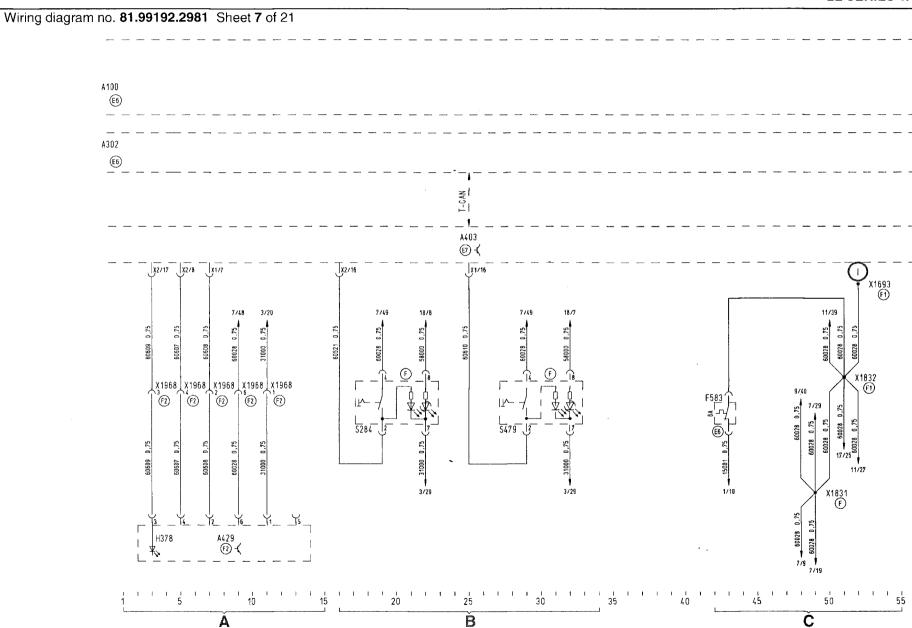
C = Distributor line 60028

A 100 A302 A403 A429	(255) (352) (339) (405)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Steering column switch, cruise control/transmission
F 583	(117)	Fuse, FFR (term. 15) switch/sensors
H 378	(A405)	Indicator light FGR/FGB (LED)
S 284 S479	(489) (476)	Switch FGR/FGB Switch, additional retarding brake
X 1693 X1831 X1832	(221) (221)	Crimped connector, line 60028 Crimped connector, line 60028 Crimped connector, line 60028

Stvd. cruise control switch

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Vehicle management computer (terminal 15)

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- ② A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. **81.99192.2981** Sheet **8** of 21 Change status: 03.01

A = ECAM

B = Indicator light cab locking

C = Tank indicator

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A407 (342) Instrumentation

A409 (353) ECAM control unit

B103 (263) Tank sensor

F366 (101) ECAM/ECAS fuse (terminal 15)

G101 (113) Battery 2

H108 Indicator light, reservoir pressure

H149 Indicator light, cab locking

P102 Indicator instrument, reservoir pressure brake circuit 1

P103 Indicator instrument, reservoir pressure brake circuit 2

P104 Indicator instrument fuel in reserve

\$198 (538) Switch, cab locking right

S199 (538) Switch, cab locking left

X1544 Stvd. frame III X1557 Stvd. frame, left

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

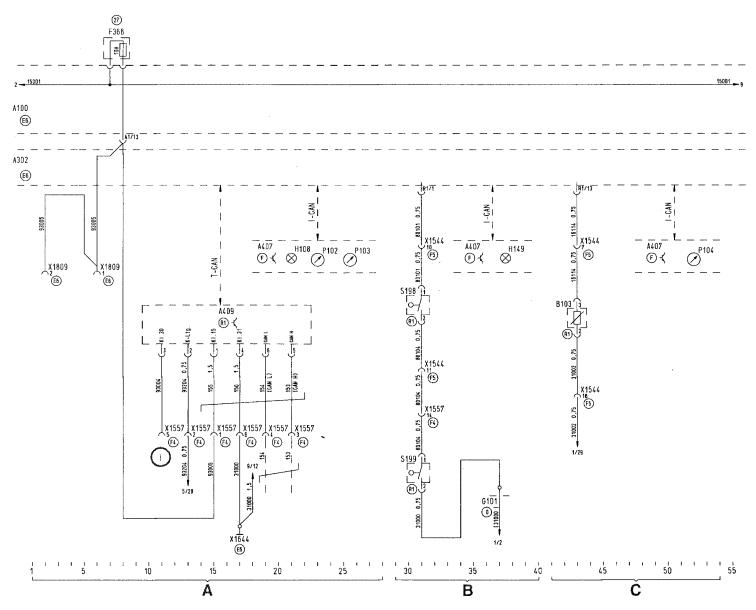
X1809 Stvd. ECAS (terminal 15)

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- E6 Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Reserve

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2981 Sheet 8 of 21



Legend Wiring diagram no. 81.99192.2981 Sheet 9 of 21 Change status: 03.01			
	level s gine b ditiona		
A100 A302 A403 A407 A437 A551	(352) (339) (342) (398)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation Additional retarding brake pushbutton switch Control unit, oil level sensor	
B 269 B270		Temperature sensor, external air Oil level sensor	
F 375	(101)	Fuse, cab outside (terminal 15)	
G 101	(113)	Battery 2	
H 102 H145 H169	(142) (143)	Horn Indicator light, retarder Horn (dual-tone)	

Stvd. engine/EDC/transmission IV

P113

S108

X1545 X1550 X1551

X1557

X1559

d	Marking of mounting posit	
diagram no. 81.99192.2981 Sheet 9 of 21 e status: 03.01	(A) Tail	
orn I level sensor Igine brake Iditional retarding brake pushbutton switch ternal temperature	(B1) Engine (B2) Gearbox (C) Front (C1) Bumper (C2) Entrance right	
 (255) Central fuse, relay and terminal block (352) Central computer 2 (339) Vehicle management computer (342) Instrumentation (398) Additional retarding brake pushbutton switch (533) Control unit, oil level sensor (275) Temperature sensor, external air (338) Oil level sensor (101) Fuse, cab outside (terminal 15) (113) Battery 2 	©3 Entrance left ©5 Central electrics area ©7 Control unit racks ©8 Rear wall of cab ©9 Instrument panel ©9 Central part ©9 Steering wheel/column ©9 Foot pedals ©9 Front wall, inside left ©9 Front wall, inside right	
(142) Horn Indicator light, retarder (143) Horn (dual-tone)		
Indicator device, external temperature (472) Steering column switch (indicators, wipers and headlights)	•	
Stvd. front region, left Stvd. front region, right Stvd. engine/EDC/transmission II Stvd. frame, left	X1967 Stvd. 1 comb X1969 Stvd. engine X2041 Stvd. adapta	
Stvd. engine/EDC/transmission IV	Y 281 (188) Solenoid val	

Marking of mounting positions

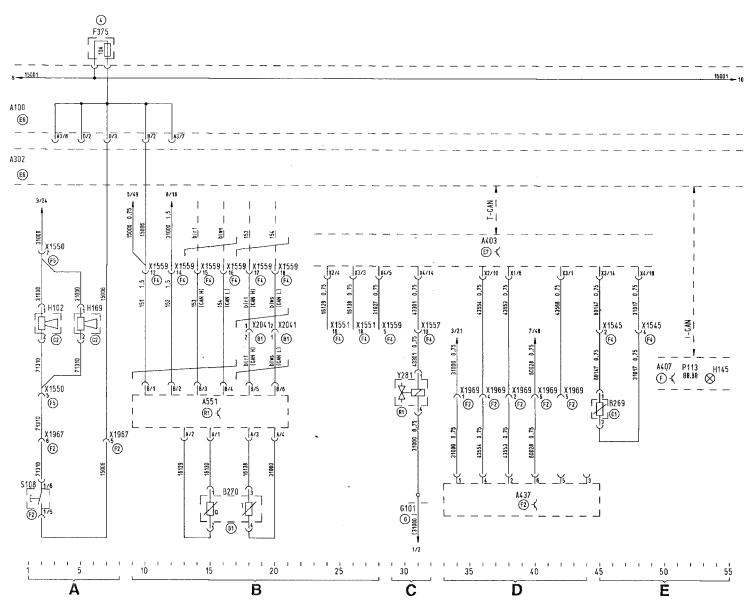
B 1	Engine
(B2)	Gearbox
(C)	Front
(01)	Bumper
(C2)	Entrance right
©3	Entrance left
E6	Central electrics area
E7	Control unit racks
E8	Rear wall of cab
F	Instrument panel
(F1)	Central part
(F2)	Steering wheel/column
(F3)	Foot pedals

- (F6) Driving seat
- (F7) Passenger seat (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

X1967	Stvd. 1 combination steering column switch
X1969	Stvd. engine brake switch
X2041	Stvd. adaptation AS-TRONIC

(188) Solenoid valve, engine brake

Wiring diagram no. 81.99192.2981 Sheet 9 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **10** of 21 Change status: 03.01

A = Wiper and washer system

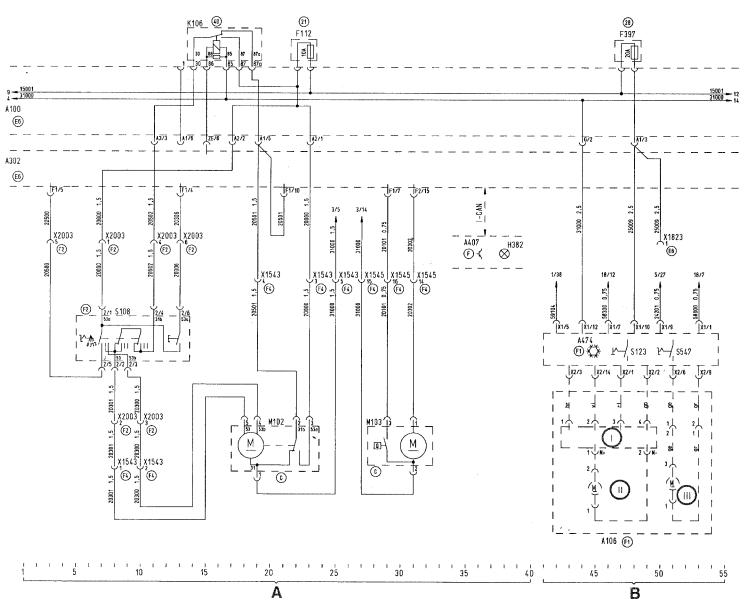
B = Heater fan

. *			•
A100 A106 A302 A407 A474	(255) (383) (352) (342) (375)	Central fuse, relay and terminal block Front heater Central computer 2 Instrumentation Control device, cab heating with/without air-conditioning	
F 112 F397	(101) (104)	Fuse, wiper and washer system Fuse, heater blower/air-conditioning unit	E8 F
H 382		Indicator light, level of washing water	(F1) (
K 106	(244)	Relay, wiper pulses	F2 5
M 102 M103	(145) (146)	Screen wiper motor Screen wash pump	(F4) (F5)
S 108 S123 S547	(472) (A375) (A375)	Steering column switch (indicators, wipers and headlights) Switch, fresh air circulation vent Rotary control, blower	
X1543 X1545 X1823 X2003		Stvd. wiper motor Stvd. front region, left Stvd. air-conditioning, terminal 15 Stvd. 2 combination steering column switch	()

- A Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c1) Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- f) Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F Front wall, inside right
- Clock-pulse regulator
- ⊕ Blower
- Fresh/circulating air

- 6 Driving seat
- Passenger seat
- © Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 10 of 21



Legend

Wiring diagram no. **81.99192.2981** Sheet **11** of 21 Change status: 03.01

A = Cigarette lighter

B = Illumination, ash tray

C = Gear lever

D = Diagnosis, vehicle management computer

E = Accelerator pedal unit

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2

A403 (339) Vehicle management computer

A410 (404) Accelerator pedal unit

E177 (176) Illumination, ash tray left E178 (176) Illumination, ash tray right

F158 (122) Fuse, cigarette lighter

F236 (111) Generator engine control (terminal 15)

R108 (151) Cigarette lighter

S477 Switch, gear lever

X1559 Stvd. engine/EDC/transmission IV X1604 Stvd. switch in operating button

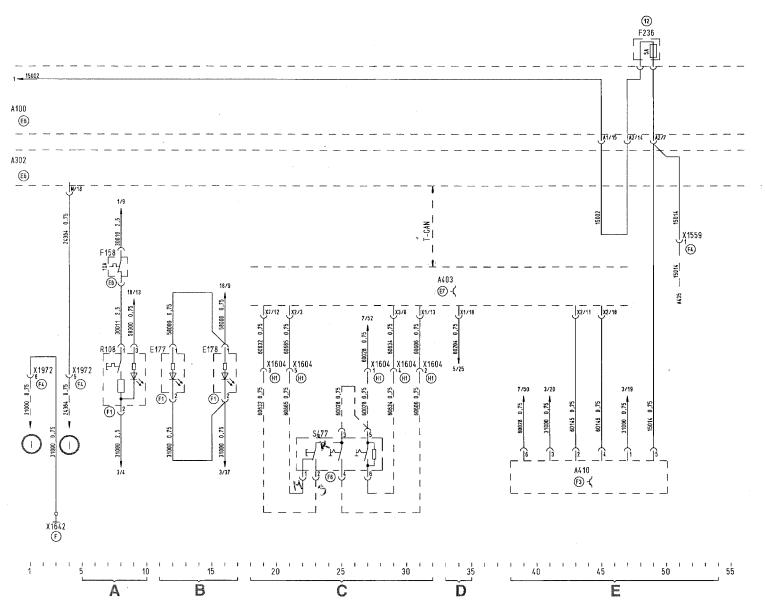
X1642 Earthing point, cab, behind instrument panel

X1972 Stvd. pedals, external

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- HGS (hydraulic gearshift) heating

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 11 of 21



Wiring diagram no. **81.99192.2981** Sheet **12** of 21 Change status: 03.01

A = Supply voltage +15V

B = Instrumentation/tachograph

A 100 A302 A407 A408	(352) (342)	Central fuse, relay and terminal block Central computer 2 Instrumentation Tachograph
B 110	(271)	Pulse generator, tachograph
F 376 F398 F412	(101)	Fuse, cab interior (terminal 15) Fuse, tachograph, instrumentation (terminal 15) Fuse, tachograph, instrumentation (terminal 30)
H 111 H162		Central warning light Warning beep
P101 P106 P107 P116 P118 P119 P120		Tachometer Indicator for cooling water temperature Clock Charge air indicator Speed indicator Mileage indicator Trip indicator
X1535 X1536 X1537 X1639 X1642 X1644 X1757		Stvd. tachograph Stvd. tachograph Stvd. tachometer pickup Soldered connector, line 16000 Earthing point, cab, behind instrument panel Earthing point, cab, adjacent to central fuse, relay and terminal block Soldered connector, line 16006
X1833	(221)	

Marking of mounting positions

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- Differential lock
- Supplementary heater
- (III) Door module
- ▼ Terminal 15
- (V) Minus
- (VI) Earth
- See electronically controlled diesel injection

Note:

X1536/8 regarding soldering X1536/6 regarding soldering 6 Driving seat

Passenger seat

Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

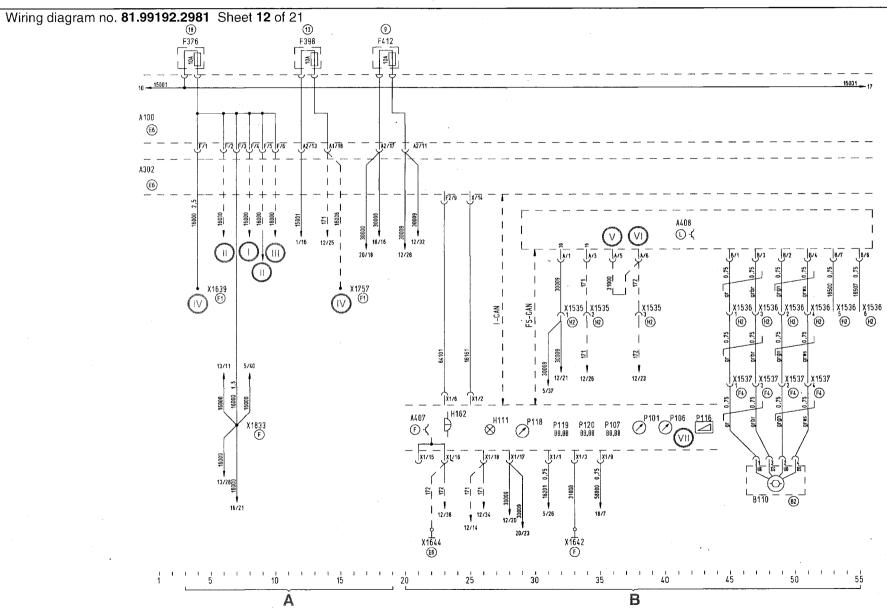
P Rear axle

® Front part of frame

Rear part of frame

⑤1 Door left

© Door right



Legend

Wiring diagram no. **81.99192.2981** Sheet **13** of 21 Change status: 03.01

A = Lighting learning run B = Light circuits

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A407 (342) Instrumentation

F534 (117) Fuse, light switch

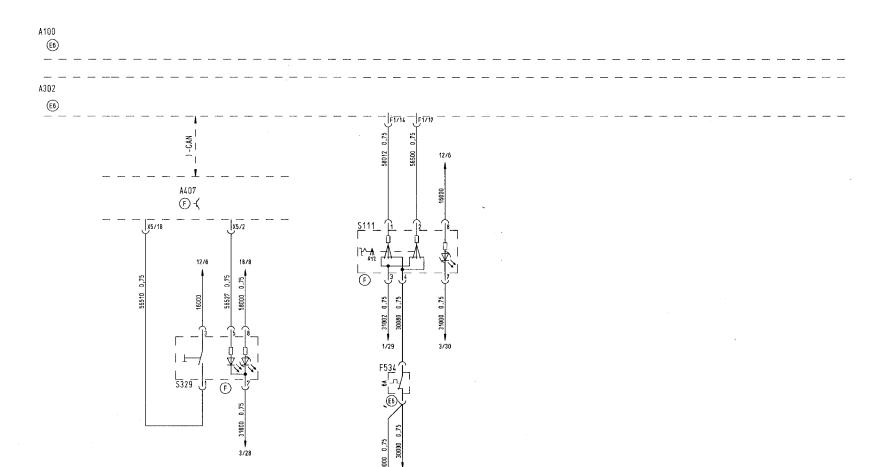
S111 (482) Light switch

S329 (473) Control switch, lighting learning run

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 13 of 21



25 30 35 40 45 50 55

Wiring diagram no. **81.99192.2981** Sheet **14** of 21 Change status: 03.01

A = Parking lights, left B = Parking lights, right

A 100	(255)	Central fuse, relay and terminal block
A187	(411)	Headlights, left
A188	(412)	Headlights, right
A 1 0 O	HOE	Tail light loft

A189 (195) Tail light, left A190 (195) Tail light, right

A302 (352) Central computer 2

E 108	Parking	light,	right
E109	Parking	light,	left

E114 (181) Outline marker light, front right
E115 (181) Outline marker light, front left
E116 Outline marker light, rear right
E117 Outline marker light, rear left

E118 Tail light, right E119 Tail light, left

F117 (101) Fuse, parking tail light, left F118 (101) Fuse, parking tail light, right

G101 (113) Battery 2

K116 (187) Relay, parking tail light

X 395	Stvd. outline marker and interior light, left and right
X1540	Stvd. frame I
X1544	Stvd. frame III
X1545	Stvd. front region, left
X1550	Stvd. front region, right
X1557	Stvd. frame, left
X1586	Stvd. connection for trailer lighting socket 1
X2507	Stvd. adaptation parking light 1
X2508	Styd. adaptation parking light 2

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Side marking light, left
- Side marker light, right

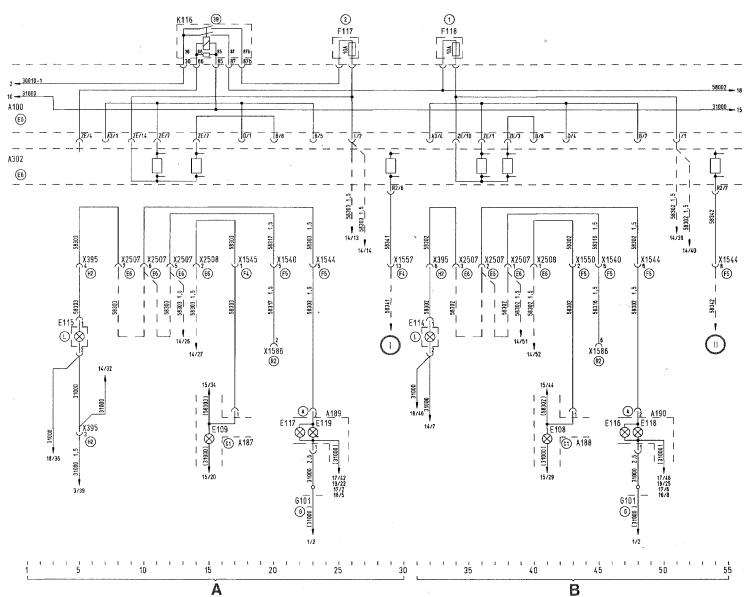
· Note:

Position for mounting X1586 is E8 on semitrailers!

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2981 Sheet 14 of 21



Wiring diagram no. **81.99192.2981** Sheet **15** of 21 Change status: 03.01

A = Headlamp flasher

B = Dipped beam, main beam

C = Headlight levelling

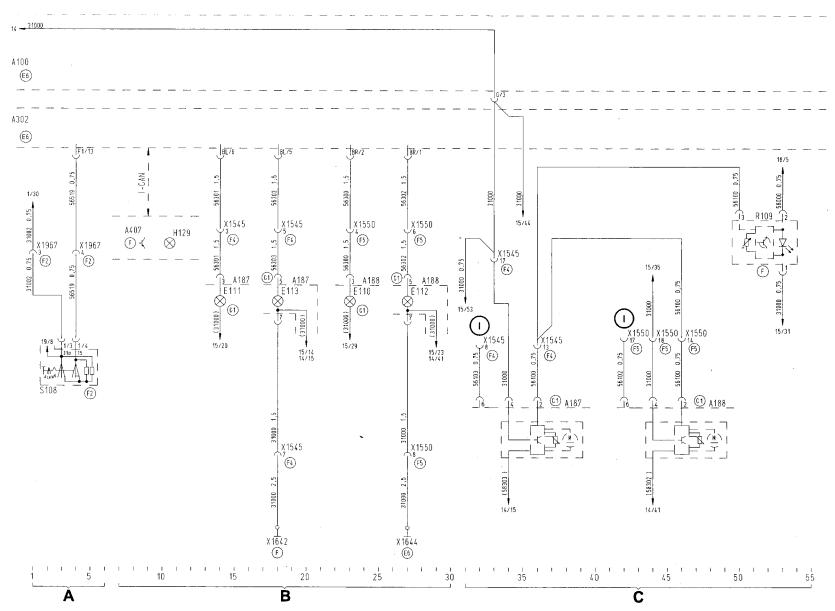
o - madangan is remaining			
A 100 A187 A188 A302 A407	(411) (412) (352)	Central fuse, relay and terminal block Headlights, left Headlights, right Central computer 2 Instrumentation	
E 110 E111 E112 E113		Dipped beam, right Dipped beam, left Main beam, right Main beam, left	
H 129		Indicator light, main beam	
R 109	(136)	Positioning potentiometer, headlight levelling	
S 108	(472)	Steering column switch (indicators, wipers and headlights)	

X 1545	Stvd. front region, left
X1550	Stvd. front region, right
X1642	Earthing point, cab, behind instrument panel
X1644	Earthing point, cab, adjacent to central fuse, relay and terminal block
X1967	Stvd. 1 combination steering column switch

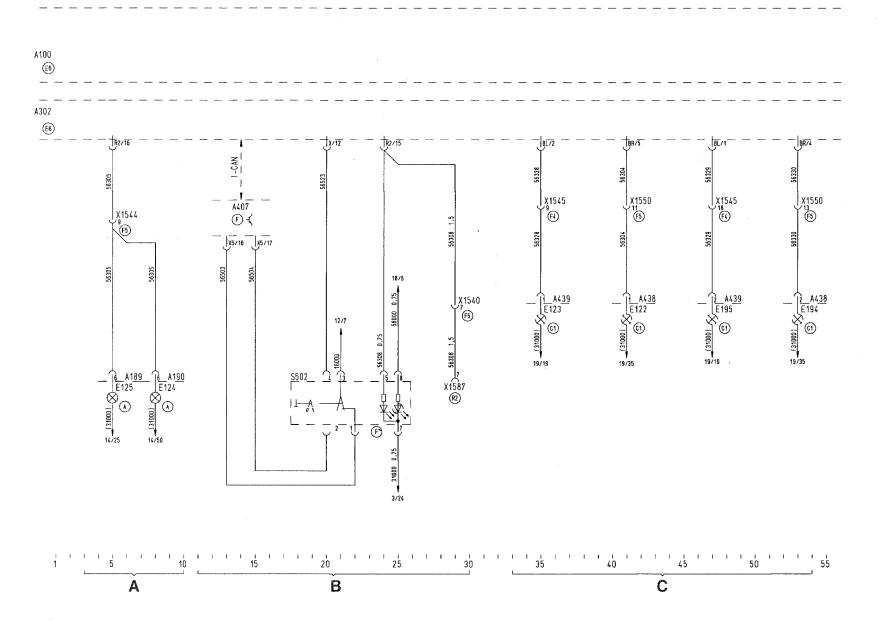
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- 1 for D2R headlights

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 15 of 21



Wiring diagram no. 81.99192.2981 Sheet 16 of 21



E103

Wiring diagram no. **81.99192.2981** Sheet **17** of 21 Change status: 03.01

A = Brake light

B = Parking brake

C = Reversing light

A 100	(255) Central fuse, relay and terminal block
A189	(195) Tail light, left
A190	(195) Tail light, right
A302	(352) Central computer 2
A402	(399) EBS control unit
A403	(339) Vehicle management computer
A407	(342) Instrumentation
B 337	(244) Brake sensor
B369	(276) Pressure switch, control lamp for parking brake
E 102	Reversing beam, right

Reversing beam, left

- F314 (101) Fuse, reversing light

 G101 (113) Battery 2
- H112 Brake light, right H113 Brake light, left
- H117 Indicator lights, parking brake
- X1540 Stvd. frame I X1544 Stvd. frame III
- X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

X1627 Stvd. reversing beam

X1834 (221) Crimped connector, line 71300

Marking of mounting positions

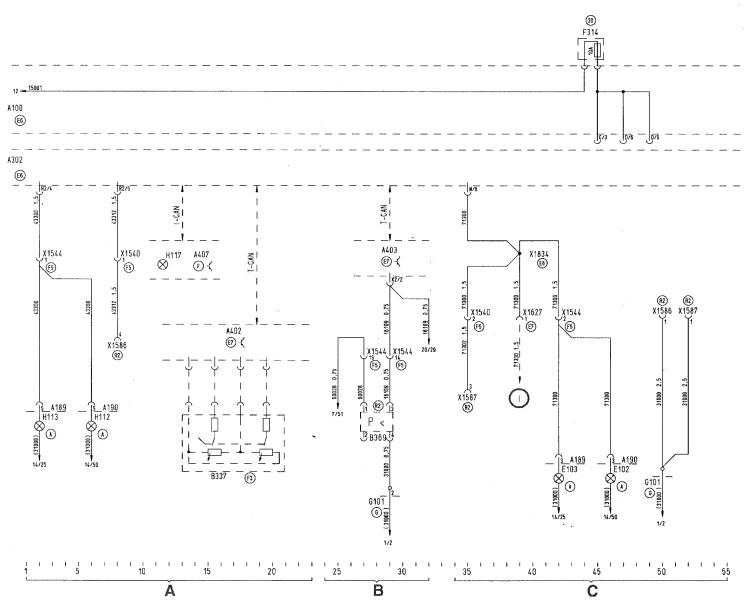
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Switch, reverse gear

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Note:

- Position for mounting X1586 and X1587 is E8 on semitrailers!

Wiring diagram no. 81.99192.2981 Sheet 17 of 21



Wiring diagram no. **81.99192.2981** Sheet **18** of 21 Change status: 03.01

A = Search illumination

B = Power supply, permanent consumers

C = Entrance step illumination/interior lighting

A 100	(255)	Central fuse, relay and terminal block
A302	(352)	Central computer 2

A407 (342) Instrumentation

A451 (441) Door module (driver's side)

A452 (440) Door module (passenger side)

A465 (453) Door lock (driver's side)

A466 (454) Door lock (passenger side)

E127 (174) Interior light, left

E128 (174) 1. interior light (right)

E268 (170) Entrance illumination, passenger

E269 (170) Entrance illumination, driver

F125 (111) Fuse, search illumination

F128 (101) Fuse, permanent consumer

R106 Potentiometer, instrument illumination

X 395	Stvd. outline marker and interior light, left and right
	- · · · · · · · · · · · · · · · · · · ·

X1546 Stvd. door, right X1547 Stvd. door, left

X1557 Stvd. frame, left

X1569 Styd. locker lighting, left

X1570 Stvd. locker lighting, right

X1643 Soldered connector, line 58300

X1835 (221) Crimped connector, line 58000

X1836 (221) Crimped connector, line 58000

X1838 (221) Crimped connector, line 58300

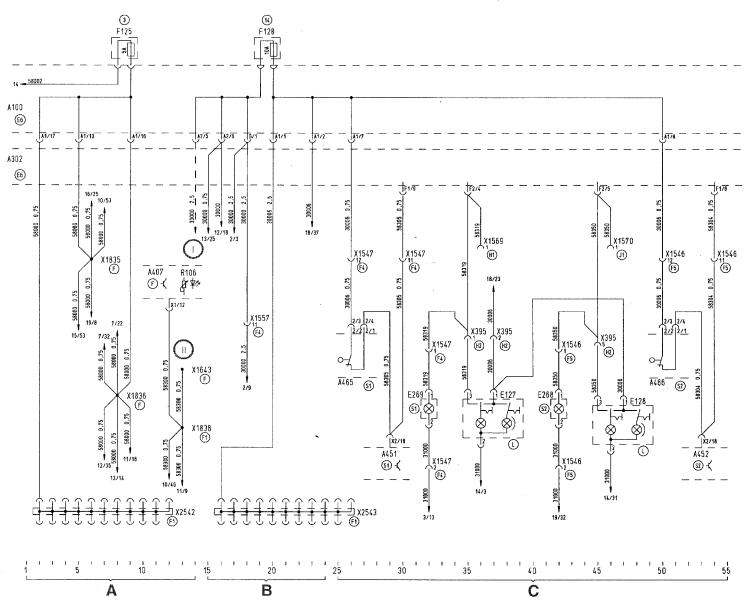
X2542 (246) Potential distributor, 21-pin line 58000

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- Door module
- Terminal 58, dimmed

- 6 Driving seat
- F7 Passenger seat
- ⊕ Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2981 Sheet 18 of 21



Legend

X1644

X1967

Wiring diagram no. **81.99192.2981** Sheet **19** of 21 Change status: 03.01

A100 (255) Central fuse, relay and terminal block

A = Light flashing unit

A189 A190 A302 A407 A438 A439	(195) (352) (342) (410) (409)	Tail light, left Tail light, right Central computer 2 Instrumentation Light strip, right Light strip, left Fuse, warning indicator light switch
H119 H120 H121 H122 H123 H124 H125 H380 H381		Indicator light, direction indicators, trailer Direction indicator, front right Direction indicator, front left Direction indicator, rear right Direction indicator, rear left Direction indicator, side right Direction indicator, side left Indicator light, direction indicators, tractor unit, right Indicator light, direction indicators, tractor unit, left
S 108 S109		Steering column switch (indicators, wipers and headlights) Switch, hazard warning flasher
X1540 X1544 X1545 X1550 X1586		Stvd. frame I Stvd. frame III Stvd. front region, left Stvd. front region, right Stvd. connection for trailer lighting socket 1

Earthing point, cab, adjacent to central fuse,

Stvd. 1 combination steering column switch

relay and terminal block

Marking of mounting positions

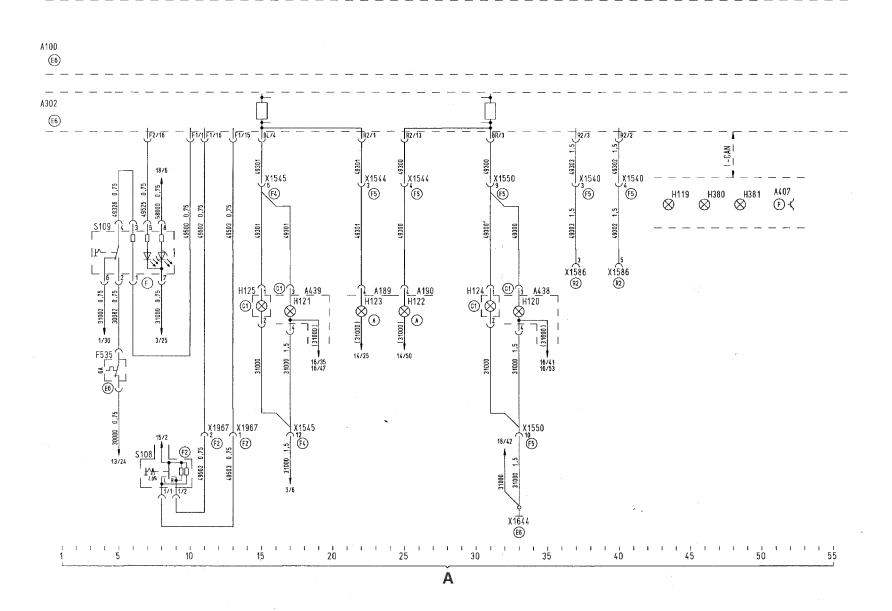
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (a) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Note:

Position for mounting **X1586** is E8 on semitrailers!

Wiring diagram no. 81.99192.2981 Sheet 19 of 21



Wiring diagram no. 81.99192.2981 Sheet 20 of 21 Change status: 03.01

A = Reserve lines

B = Reserve lines for trailer lighting socket

C = Periphery of retarder

(255) Central fuse, relay and terminal block **A**100 (352) Central computer 2 A302

(113) Battery 2 **G**101

Stvd. solenoid valve, frame
Stvd. differential lock, rear axle
Stvd. frame I
Stvd. frame III
Stvd. engine/EDC/transmission II
Stvd. frame, left
Stvd. connection for trailer lighting socket 1
Stvd. connection for trailer lighting socket 2
Stvd. cable duct, hydroretarder
Stvd. distributor line 16109
Stvd. distributor line 30000
Stvd. distributor line 30009
Magnetic clutch, compressor

Ма	rking of mounting positions		
A	Tail	(F6)	Driving seat
B 1	Engine	F 7	Passenger seat
(B2)	Gearbox	F8	Control panel
0	Front	G	Battery box
(C1)	Bumper	(H1)	B-pillar on driver's side
(C2)	Entrance right	(H2)	A-pillar on driver's side
(C3)	Entrance left	JI	B-pillar on passenger's side
(E6)	Central electrics area	J2	A-pillar on passenger's side
E 7	Control unit racks	L	Ceiling/roof
(E8)	Rear wall of cab	N	Front axle
F	Instrument panel	P	Rear axle
(F1)	Central part	R1)	Front part of frame
(F2)	Steering wheel/column	(R2)	Rear part of frame
F3	Foot pedals	(S1)	Door left
F4	Front wall, inside left	(S2)	Door right
F5	Front wall, inside right		
1	Solenoid valve, differential lock, rear axle, transverse	e 🕼	Supply to trailer

- (II) Switch for display, differential lock, transverse
- (III) Indicator light, differential lock, rear axle, transverse
- Indicator light, differential lock, longitudinal
- Solenoid valve, differential lock, longitudinal
- (VI) Solenoid valve, power take-off 1
- (Vii) Data line

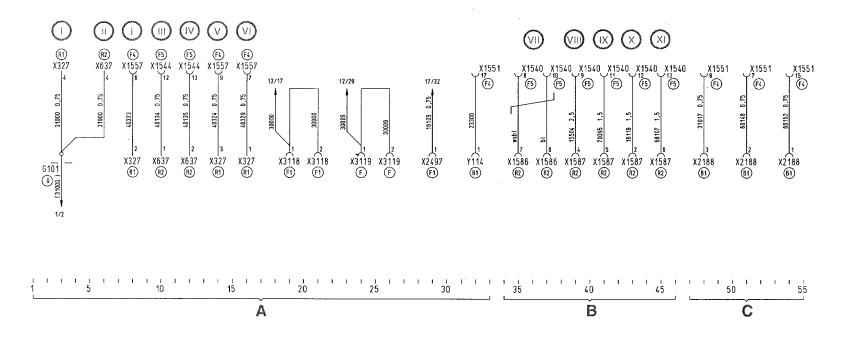
- (protection from emptying)
- (X) Control, trailing axle or leading axle, trailer
- (x) Pressure switch, monitoring, parking brake, trailer
- Indicator light, brake pad wear indicator, trailer

Note:

Position for mounting X1586 and X1587 is E8 on semitrailers!

Wiring diagram no. 81.99192.2981 Sheet 20 of 21





Wiring diagram no. **81.99192.2981** Sheet **21** of 21 Change status: 03.01

A = Intarder, retarder

B = Transmission

C = Power take-off

A 100 A302 A403	(352)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer
X 1549 X1553		Stvd. engine/EDC/transmission I Stvd. engine/EDC/transmission III
X1559		Stvd. engine/EDC/transmission IV
X1562		Stvd. gearbox
X1948		Stvd. engine/transmission (MP box)
X1949		Stvd. engine/transmission (MP box)
X1951		Stvd. engine/transmission (MP box)
X1972		Styd foot pedals exterior

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Pressure pickup, positioning pressure
- Solenoid valve, reservoir
- (III) Temperature sensor, intarder, retarder
- Proportional valve, intarder, retarder
- V Solen. valve, reservoir/press. pickup, actuat. press.
- (vi) Transmission control module
- VIII Clutch servo
- Clutch displacement sensor

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right
- (X) Transmission, input speed
- (x) Transmission, neutral
- XI) Switch, reverse gear
- Diagnostics, AS-Tronic
- Indicator light, power take-off 1
- (xiv) Indicator light, power take-off 2

Wiring diagram no. 81.99192.2981 Sheet 21 of 21 A100 (E7) -{ X3/13 X4/6 X1562 1 5 10 15 20 25 30 35 40 45 50

ADDITIONAL WIRING DIAGRAMS

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Airbag

Legend

Wiring diagram no. 81.99192.2572 Sheet 1 of 1 Change status: 06.00

A = Airbag with seat belt tensioner

A100 A302 A407 A484 A485 A486	(352) (342) (485) (484)	Central fuse, relay and terminal block Central computer 2 Instrumentation Steering wheel with airbag Seat belt tensioner Control unit airbag
F 373	(117)	Fuse, airbag
H 303		Indicator light, airbag
X1640 X1867 X1910 X1970		Soldered connector, line 31000 Stvd. control unit airbag Crimped connector K-KWP2 (SA) Stvd. airbag

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2572 Sheet 1 of 1 A100 A302 (E6) A484 F2 -{ A407 H303 (F) -⟨ ⊗ A485 F6 -{ X1640 (F1) X1910 F1 X1867 X1867 1 H1 X1867 X1867 A486 F8 -< 1 5 10 15 20 25 30 35 40 45 55

Trailer lighting socket 24V 7-pin

Legend

Wiring diagram no. **81.99192.2496** Sheet **1** of 1 Change status: 07.99

A = Trailer lighting socket 24V 7-pin N

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

G101 (113) Battery 2

X330 (191) Socket connector N 24V

X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

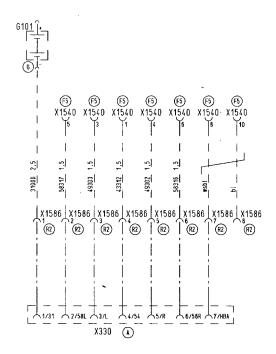
- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Position for mounting X1586 is E8 on semitrailers!

Wiring diagram no. 81.99192.2496 Sheet 1 of 1

A100 (EB)

A302



1 5 10 15 20 25 30 35 40 45 55

Trailer lighting socket 24V 7-pin/4-pin

Legend

Wiring diagram no. **81.99192.2497** Sheet **1** of 1 Change status: 07.99

A = Trailer lighting socket 24V 7-pin N B = Trailer lighting socket 24V 4-pin

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2

G101 (113) Battery 2

X330 (191) Socket connector N 24V X741 (193) Trailer lighting socket X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1

X1587 Stvd. connection for trailer lighting socket 2

Marking of mounting positions

- A Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

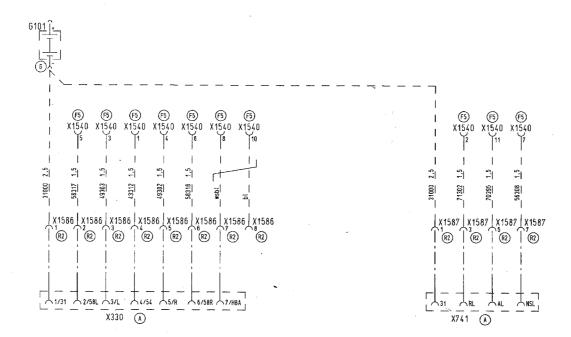
Note:

Position for mounting X1586 and X1587 is E8 on semitrailers!

Wiring diagram no. 81.99192.2497 Sheet 1 of 1

A100 (E6)

A302 (E8)



1 5 10 15 20 15 55 **B**

Trailer lighting socket 24V 7-pin/7-pin

Legend

Wiring diagram no. **81.99192.2498** Sheet **1** of 1 Change status: 07.99

A = Trailer lighting socket 24V 7-pin N B = Trailer lighting socket 24V 7-pin S

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

G101 (113) Battery 2

X329 (192) Socket connector S 24V X330 (191) Socket connector N 24V

X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

Marking of mounting positions

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- 3 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Note:

Position for mounting X1586 and X1587 is E8 on semitrailers!

Wiring diagram no. 81.99192.2498 Sheet 1 of 1 A100 A302 <u>(£6)</u> | X1587 | X158 | X1586 | X158 1/31 \2/5FS \3/RL \4/+ \5/AL \6/BYA \7/NSL X329 (A)

1 5 10 15 20 25 30 B

Trailer lighting socket 24V 15-pin

Legend

Wiring diagram no. **81.99192.2499** Sheet **1** of 1 Change status: 07.99

A = Trailer lighting socket 24V 15-pin

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

G101 (113) Battery 2

X331 (194) Socket 24V X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- 6 Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

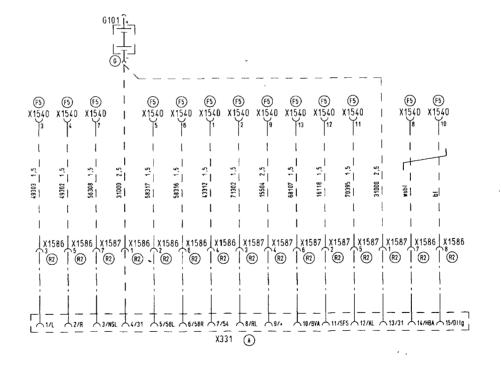
Note:

Position for mounting X1586 and X1587 is E8 on semitrailers!

Wiring diagram no. 81.99192.2499 Sheet 1 of 1

A100 (B)

A302 (G)



1 5 10 15 20 25 30 35 40 45 50 55

Trailer lighting socket 24V 7-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2447** Sheet **1** of 1 Change status: 03.99

A = Trailer lighting socket 24V 7-pin N B = Trailer lighting socket 12V 13-pin

A100 (255) Central fuse, relay and terminal block A236 (503) DC-converter 24/12V

A302 (352) Central computer 2

G101 (113) Battery 2

X330 (191) Socket connector N 24V X740 (206) Trailer lighting socket 12V

X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Trailer lighting socket 24V 7-pin/4-pin + 12V 13-pin

Legend

Wiring diagram no. 81.99192.2448 Sheet 1 of 2 Change status: 03.99

A = Trailer lighting socket 24V 7-pin N B = Trailer lighting socket 24V 4-pin

(255) Central fuse, relay and terminal block **A**100 A236 (503) DC-converter 24/12V

(352) Central computer 2 A302

(113) Battery 2 **G**101

X330 (191) Socket connector N 24V (193) Trailer lighting socket

X741 X1540 Styd. frame I

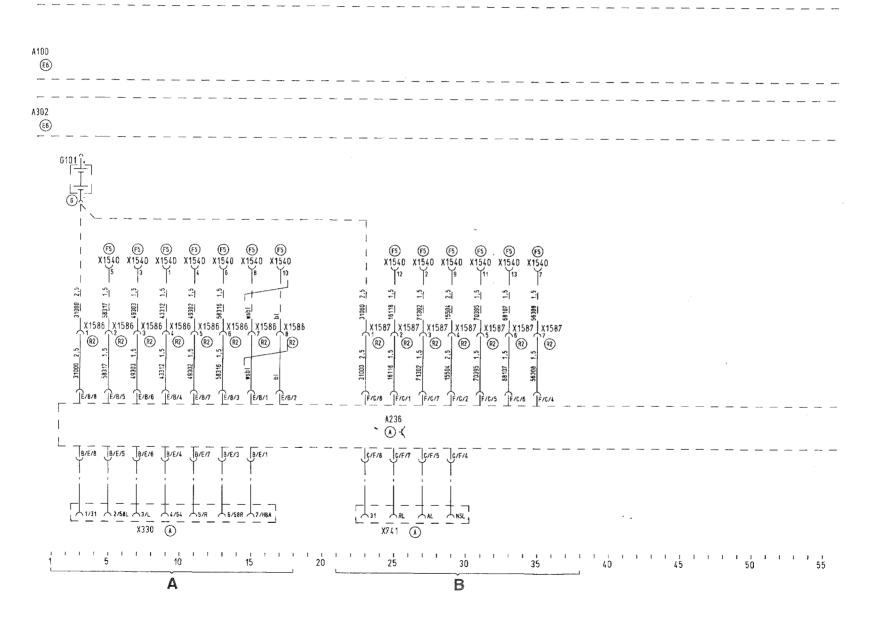
X1586 Stvd. connection for trailer lighting socket 1 X1587

Stvd. connection for trailer lighting socket 2

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- (P) Rear axle
- (R1) Front part of frame
- (P2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2448 Sheet 1 of 2



Trailer lighting socket 24V 7-pin/4-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2448** Sheet **2** of 2 Change status: 07.99

A = Trailer lighting socket 12V 13-pin

A100 (255) Central fuse, relay and terminal block

A236 (503) DC-converter 24/12V A302 (352) Central computer 2

X740 (206) Trailer lighting socket 12V

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

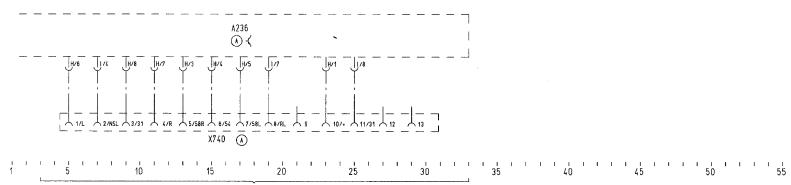


Wiring diagram no. **81.99192.2448** Sheet **2** of 2

A100 (E6)

A302

®



Trailer lighting socket 24V 7-pin/7-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2449** Sheet **1** of 2 Change status: 03.99

A = Trailer lighting socket 24V 7-pin N B = Trailer lighting socket 24V 7-pin S

A100 (255) Central fuse, relay and terminal block A236 (503) DC-converter 24/12V

A302 (352) Central computer 2

G101 (113) Battery 2

X329 (192) Socket connector S 24V X330 (191) Socket connector N 24V

X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2449 Sheet 1 of 2 A100 A302 **(E6)** \$\frac{1}{577} \frac{1}{90016} \frac{1}{10016} | The state of the PE/8/8 PE/8/5 PE/8/6 PE/8/4 PE/8/7 A236 • € TB/E/8 TB/E/5 TB/E/6 TB/E/4 TB/E/7 TB/E/3 TB/E/1 JE/F/8 JE/F/1 JE/F/7 JE/F/2 JE/F/5 JE/F/6 JE/F/6 X330 (A) 1/31 2/5F5 33/RL 4/1 55/AL 6/BVA 77/NSL 5 10 15 20 25 30 35 40 45 50 55

Trailer lighting socket 24V 7-pin/7-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2449** Sheet **2** of 2 Change status: 07.99

A = Trailer lighting socket 12V 13-pin

A100 (255) Central fuse, relay and terminal block

A236 (503) DC-converter 24/12V A302 (352) Central computer 2

X740 (206) Trailer lighting socket 12V

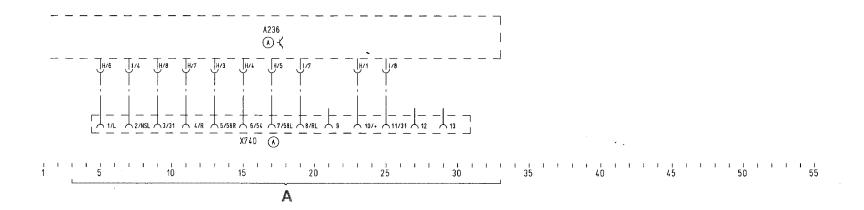
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2 Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDIT	ΙΔΝΔΙ	_ WIRING	DIAGR	AM9

Wiring diagram no. 81.99192.2449 Sheet 2 of 2





Trailer lighting socket 24V 15-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2650** Sheet **1** of 2 Change status: 03.99

A = Trailer lighting socket 24V 15-pin

A100 (255) Central fuse, relay and terminal block

A236 (503) DC-converter 24/12V

A302 (352) Central computer 2

G101 (113) Battery 2

X331 (194) Socket 24V X1540 Stvd. frame I

X1586 Stvd. connection for trailer lighting socket 1 X1587 Stvd. connection for trailer lighting socket 2

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

©3 Entrance left

© Central electrics area

© Control unit racks

Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

F7 Passenger seat

(F8) Control panel

G Battery box

H1 B-pillar on driver's side

(H2) A-pillar on driver's side

(J) B-pillar on passenger's side

A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

®1 Front part of frame

Rear part of frame

⑤1 Door left

© Door right

Wiring diagram no. 81.99192.2650 Sheet 1 of 2 A100 A302 X1586 7 0001E X1587 X158 F16/8 F16/1 F16/7 F16/2 F16/5 F16/6 F16/4 A236 (A) ≺ 1 5 10 15 20 25 30 35 40 45 50 55

Trailer lighting socket 24V 15-pin + 12V 13-pin

Legend

Wiring diagram no. **81.99192.2650** Sheet **2** of 2 Change status: 08.99

A = Trailer lighting socket 12V 13-pin

A100 (255) Central fuse, relay and terminal block

A236 (503) DC-converter 24/12V A302 (352) Central computer 2

X740 (206) Trailer lighting socket 12V

- (A) Tail
- ^(B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

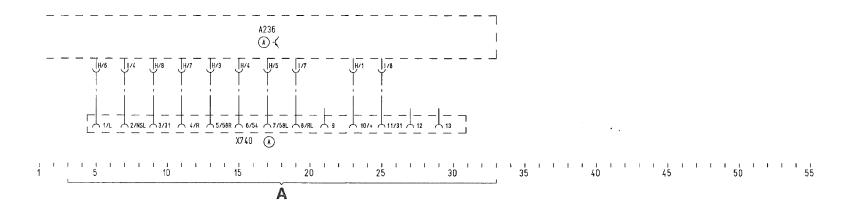
- F6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2650 Sheet 2 of 2

A100 (E6)

A302

(E6)



ASR traction control indicator light

Legend

Wiring diagram no. **81.99192.1358** Sheet **1** of 1 Change status: 04.01

A = ASR indicator light

A 100	(255)	Central fus	e, relay and termin	al block
	(·	~		

A302 (352) Central computer 2 A407 (342) Instrumentation

H140 Indicator light, ASR/ESP information

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

() For basic equipment please refer to EBS wiring diagram

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1358 Sheet 1 of 1

A100 (£6)

A302

1 5 7 10 15 20 25 30 35 40 45 55

ASR traction control slip threshold control switch

Legend

Wiring diagram no. **81.99192.1359** Sheet **1** of 1 Change status: 07.01

A = ASR slip threshold control switch

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A402 (399) EBS control unit

\$256 (455) Control switch ASR or increase in ASR/ESP slip threshold

X2541 (246) Potential distributor, 21-pin, cable 31000

X2542 (246) Potential distributor, 21-pin, cable 58000

- (A) Tail
- ^{B1} Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1359 Sheet 1 of 1

A100 (E6)

A302

1 5 10 15 20 25 30 35 40 45 50 55

ASR traction control system/electronic stability program ASR/ESP indicator light

Legend

Wiring diagram no. **81.99192.2862** Sheet **1** of 1 Change status: 03.01

A = ASR/ESP indicator light

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2 A407 (342) Instrumentation

H415 Indicator light, driving stability

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

For basic equipment please refer to EBS wiring diagram



Wiring diagram no. 81.99192.2682 Sheet 1 of 1

A100 (ES)

A302
(ES)

ASR traction control system/electronic stability program ASR/ESP slip threshold control switch

Legend

Wiring diagram no. **81.99192.1360** Sheet **1** of 1 Change status: 07.01

A = ASR/ESP slip threshold control switch

	A 100 ((255)	Central	fuse,	relay	and	terminal	block
--	----------------	-------	---------	-------	-------	-----	----------	-------

A302 (352) Central computer 2 A402 (399) EBS control unit

\$256 (675) Control switch ASR or increase in ASR/ESP slip threshold

X2541 (246) Potential distributor, 21-pin, cable 31000 X2542 (246) Potential distributor, 21-pin, cable 58000

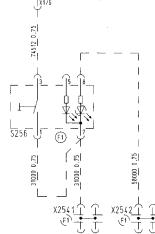
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1360 Sheet 1 of 1

A100 (E)

A302 E6



5 10 15 20 25 30 35 40 45 50 55

Work spotlight on top of cab

Legend

Wiring diagram no. **81.99192.1356** Sheet **1** of 1 Change status: 04.01

A = Work spotlight

A 100	(255)	Central fuse, relay and terminal block
A 000	(OFO)	0 t 1 0

A302 (352) Central computer 2

E208 (171) Work spotlight, right E209 (171) Work spotlight, left

F215 (118) Fuse, work spotlight

\$225 (481) Switch, work spotlight

X704 Stvd. work spotlight, left
X1975 Stvd. work spotlight in roof, left
X1980 Stvd. work spotlight in roof, right

X2285 Stvd. work spotlight

X2541 (246) Potential distributor, 21-pin, cable 31000 X2542 (246) Potential distributor, 21-pin, cable 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- (F) Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1356 Sheet 1 of 1 A100 (E6) A302 1/15 L_____ \$225 X2285 1/43

Work spotlight, cab closure (left/right)

Legend

Wiring diagram no. **81.99192.1355** Sheet **1** of 1 Change status: 04.01

A = Work spotlight

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E208 (171) Work spotlight, right

E209 (171) Work spotlight, left

F215 (118) Fuse, work spotlight

\$225 (481) Switch, work spotlight

X1862 Stvd. work spotlight

X2541 (246) Potential distributor, 21-pin, cable 31000

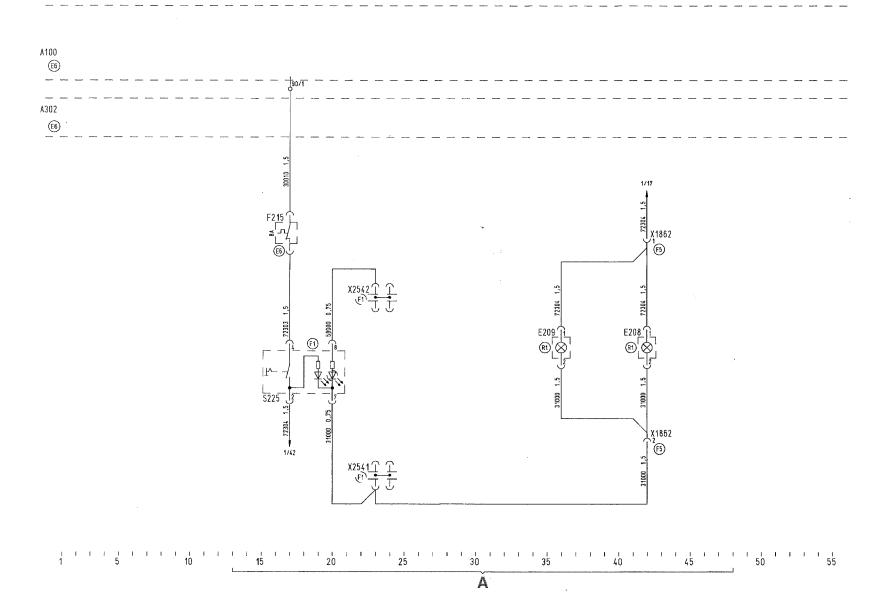
X2542 (246) Potential distributor, 21-pin, cable 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.1355 Sheet 1 of 1



Work spotlight, cab closure (right)

Legend

Wiring diagram no. **81.99192.1357** Sheet **1** of 1 Change status: 04.01

A = Work spotlight

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E209 (171) Work spotlight, left

F215 (118) Fuse, work spotlight

\$225 (481) Switch, work spotlight

X1862 Stvd. work spotlight

X2541 (246) Potential distributor, 21-pin, cable 31000 X2542 (246) Potential distributor, 21-pin, cable 58000

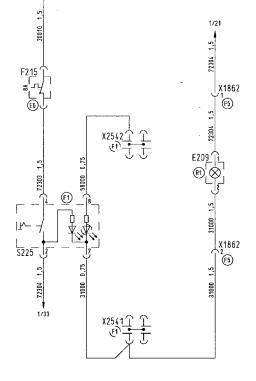
- (A) Tail
- ^(B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- 4 A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1357 Sheet 1 of 1

A100 (EB)

E6



ADDITIONAL WIRING DIAGRAMS

K 90 4.02 - 1

Emergency battery shutdown

Legend

Wiring diagram no. **81.99192.1362** Sheet **1** of 2 Change status: 04.01

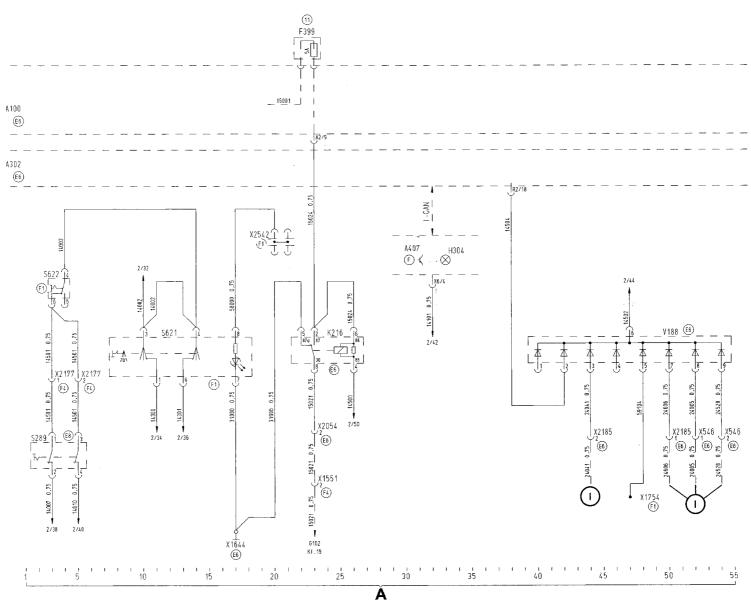
A = Emergency battery shutdown

A 100 A302 A407	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation
F 399	(111)	Generator fuse (terminal 15)
H 304		Indicator light, emergency shutdown malfunction
K 216	(281)	Relay, emergency shutdown generator
S 289 S621 S622	(589)	Switch emergency shutdown, cab, external Switch, isolator switch, battery Switch emergency shutdown, cab
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X546 X1551 X1644 X1754 X2054 X2177 X2185	(0.46)	Stvd. additional heating, battery main switch, electrical Stvd. engine/EDC/transmission II Earthing point, cab, adjacent to central fuse, relay and terminal block Crimped connector, line 59104 Stvd. emergency shutdown generator, terminal 15 Stvd. emergency shutdown switch, external Stvd. extra water heating – battery isolator switch
X2542	(240)	Potential distributor, 21-pin line 58000

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Supplementary heater

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1362 Sheet 1 of 2



Emergency battery shutdown

Legend

Wiring diagram no. **81.99192.1362** Sheet **2** of 2 Change status: 04.01

A = Emergency battery shutdown

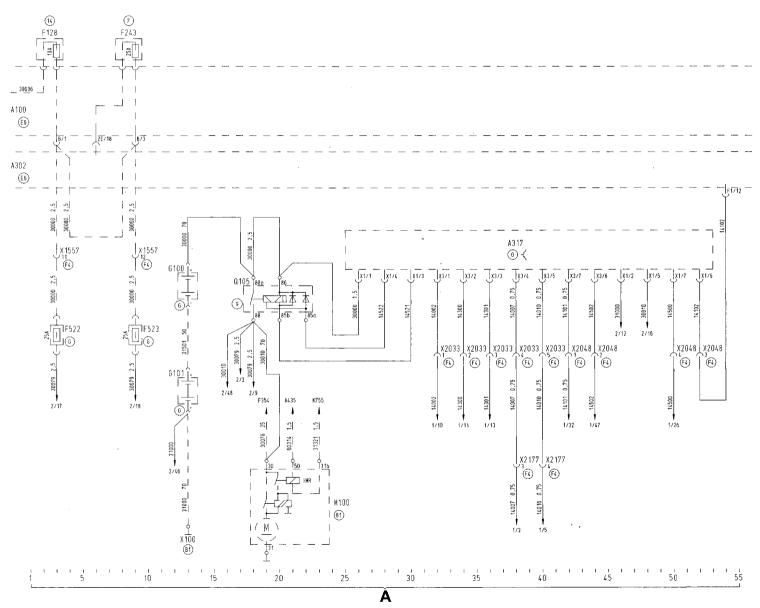
A 100 A302 A317	(352)	Central fuse, relay and terminal block Central computer 2 Control unit, battery isolator switch, emergency battery shutdown
F 128 F243 F522 F523	(105) (105)	Fuse, permanent consumer Fuse central vehicle computer, permanent positive Fuse, lead 30000 Fuse, lead 30000
G 100 G101		Battery 1 Battery 2
M 100	(144)	Starting motor
Q 105	(112)	Isolator switch, battery +
X100 X1557 X2033 X2048 X2177		Earthing point, engine Stvd. frame, left Stvd. emergency battery shutdown Stvd. emergency shutdown Stvd. emergency shutdown switch, external

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (32) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ^{®1} Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1362 Sheet 2 of 2



Main battery switch (electric)

Legend

Wiring diagram no. **81.99192.1361** Sheet **1** of 1 Change status: 04.01

A = Main battery switch (electric)

A302	(352)	Central fuse, relay and terminal block Central computer 2 Control unit, battery isolator switch Electrical main battery switch
		Control unit, battery isolator switch

- **F**522 (105) Fuse, lead 30000 F523 (105) Fuse, lead 30000
- **G**100 (113) Battery 1 G101 (113) Battery 2
- M100 (144) Starting motor
- Q105 (112) Isolator switch, battery +
- \$621 (589) Switch, isolator switch, battery

V 188	(120) Diode group, 8 times, battery isolator switch
V634	(117) Diode group, 2 times, V635; V636

V635 Diode central vehicle computer – control unit, battery isolator switch

V636 Diode terminal 15 – control unit batter isolator switch

X100 Earthing point, engine
 X546 Stvd. extra water heating – battery isolator switch
 X1557 Stvd. frame, left
 X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block
X1754 Crimped connector, line 59104

Marking of mounting positions

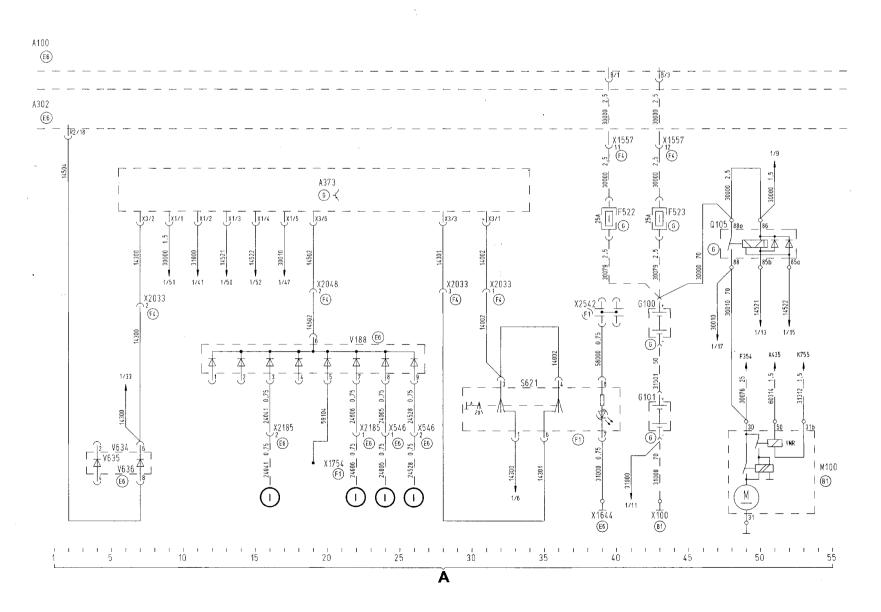
- A Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- Font wall, inside left
- Font wall, inside right
- Supplementary heater

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

X2033 Stvd. battery isolator switch
 X2048 Stvd. battery isolator switch
 X2185 Stvd. extra water heating – battery isolator switch

X2542 (246) Potential distributor, 21-pin line 58000

Wiring diagram no. 81.99192.1361 Sheet 1 of 1

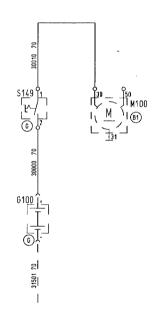


ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2495 Sheet 1 of 1

A100
(E)

A302
(E)



1 5 10 15 20 25 30 35 40 45 50 5 A

ADDITIONAL WIRING DIAGRAMS

K 90 4.03 - 1

CAN databus instrumentation (I-CAN)/tachograph (FS-CAN)

Legend

Wiring diagram no. **81.99192.2377** Sheet **1** of 1 Change status: 03.00

A = I-CAN/FS-CAN

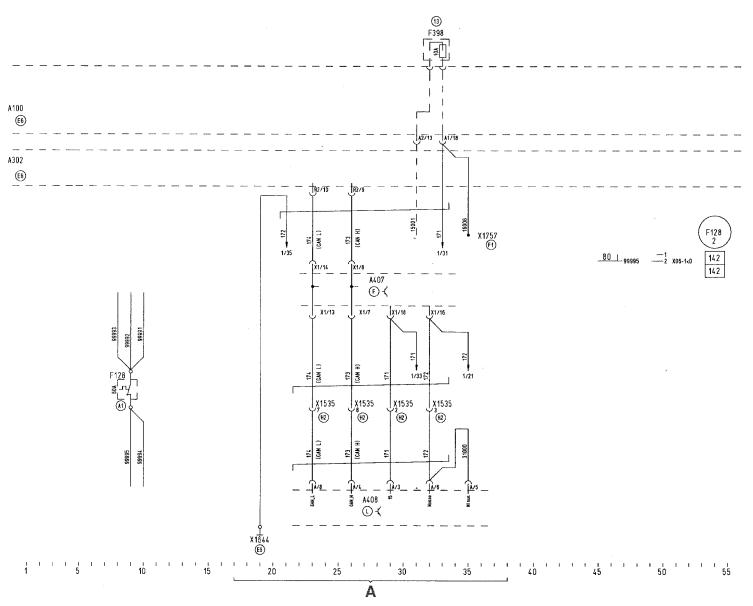
A 100 A302 A407 A408	(352) (342)	Central fuse, relay and terminal block Central computer 2 Instrumentation Tachograph
F 398		Fuse, tachograph, instrumentation (terminal 15)
X 1535 X1644		Stvd. cab tachograph Earthing point, cab, adjacent to central fuse, relay and terminal block
X1757		Soldered connector, line 16006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2377 Sheet 1 of 1



CAN databus driveline (T-CAN)

Legend

Wiring diagram no. **81.99192.2359** Sheet **1** of 1 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Central vehicle computer

D = Oil level sensor

E = Electronically controlled air management unit

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A409 (353) ECAM control unit

A551 (533) Control unit, oil level sensor

X1557 Stvd. frame, left

X1559 Stvd. engine/EDC/transmission IV

X2041 Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- (F) Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2359 Sheet 1 of 1 A100 A403 (E7) -{ A402 ⑤ ⊀ A551 ®1 -{ 1 X20412 X2041 2 81 1 81 154 (CAN L.) 153 (CAN H)

CAN databus driveline (T-CAN) with AS-TRONIC

Legend

Wiring diagram no. **81.99192.2522** Sheet **1** of 1 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Central vehicle computer

D = Oil level sensor

E = AS-TRONIC

F = Electronically controlled air management unit

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A330 (442) Control unit, AS-TRONIC (at gearbox)

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A409 (353) ECAM control unit

A551 (533) Control unit, oil level sensor

X1557 Stvd. frame left

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC

X2043 Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2522 Sheet 1 of 1 A100 (EB) A302 (E6) A402 (E7) -{ A551 R1) -{ A330 B2 -{ A403 blws (CAN L) blr! (CAN H) €7) -{ 6 CAN L)
6 LI L1
6 CAN H)
154
6 CAN L)
153
153 2 X2042 1 X2042 1 B1 ² B1 1 X2043₂ X2043 2 81 1 81 | X1557 | X155 DIrt (CAN H) X1559 X1559 154 (CAN L) 153 (CAN H)

Ď

CAN databus driveline (T-CAN) with special customer module

Legend

Wiring diagram no. **81.99192.2428** Sheet **1** of 1 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Special customer module

D = Central vehicle computer

E = Oil level sensor

F = Electronically controlled air management unit

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A409 (353) ECAM control unit

A551 (533) Control unit, oil level sensor

X1557 Stvd. frame left

X1559 Stvd. engine/EDC/transmission IV

X2041 Stvd. adaptation AS-TRONIC

Marking of mounting positions

(A) Tail

®1) Engine

(B2) Gearbox

© Front

© Bumper

© Entrance right

©3 Entrance left

© Central electrics area

© Control unit racks

(E8) Rear wall of cab

F Instrument panel

© Central part

F2 Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

F6 Driving seat

Passenger seat

(F8) Control panel

G Battery box

(H1) B-pillar on driver's side

H2 A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.2428 Sheet 1 of 1 A100 A302 A402 (E7) -{ A312 ② -〈 A551 ®1 ⊀ E7) -{ — |x171 — |x173 DIVS (CAN L) blrt (CAN H) blws (CAN L) birt (CAN H) 1 X2041₂ X2041 2 81 1 81 $\begin{array}{c|c} & \begin{array}{c|c} & \begin{array}{c|c} & \begin{array}{c|c} & \begin{array}{c} & \\ \end{array} & \begin{array}{c} \\ \end{array} & \end{array} & \begin{array}{c} \\ \end{array} & \end{array} & \begin{array}{c} \\ \end{array} & \end{array} & \begin{array}{c} \\ \end{array} & \begin{array}{c} \\ \end{array} & \begin{array}{c} \\ \end{array} & \begin{array}{c} \\ \end{array} & \end{array} & \begin{array}{c} \\ \end{array} & \end{array} & \begin{array}{c} \\ \end{array} & \begin{array}{c} \\$ 154 (CAN L) 153 (CAN H)

AN databus driveline (T-CAN) with intarder or retarder

Legend

Wiring diagram no. **81.99192.2521** Sheet **1** of 1 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Central vehicle computer

E = Oil level sensor

F = Electronically controlled air management unit

A100 (255) Central fuse, relay and terminal block

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A409 (353) ECAM control unit

A551 (533) Control unit, oil level sensor

X1557 Stvd. frame left

X1559 Stvd. engine/EDC/transmission IV

X2041 Stvd. adaptation AS-TRONIC

Marking of mounting positions

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3 CAN Low: X1/1

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2521 Sheet 1 of 1 A100 A403 E7 -{ A402 €7 ≺ A144 (E7) -{ A551 ®1)-{ (CAN L) 1 X2041z X2041 2 81 1 81 | X1559 | X155 154 (CAN L) 153 (CAN H)

CAN databus driveline (T-CAN) with intarder or retarder/AS-TRONIC

Legend

Wiring diagram no. **81.99192.2524** Sheet **1** of **1** Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Central vehicle computer

E = Oil level sensor

F = AS-TRONIC

G = Electronically controlled air management unit

A100 (255) Central fuse, relay and terminal block

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A330 (442) Control unit, AS-TRONIC (at gearbox)

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A409 (353) ECAM control unit

A551 (533) Control unit, oil level sensor

X1557 Stvd. frame left

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC

X2043 Stvd. adaptation AS-TRONIC

Marking of mounting positions

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

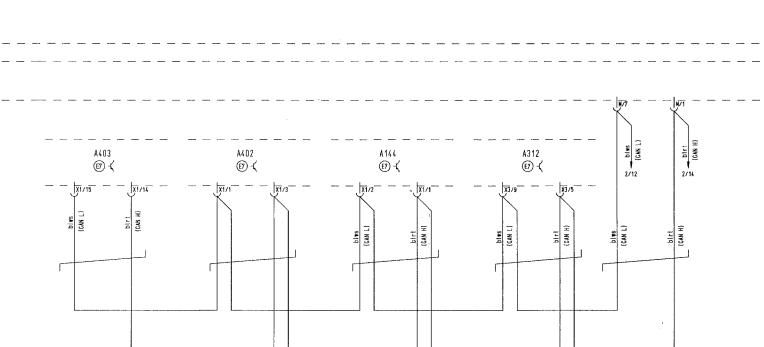
The pin assignment for Voith retarders is: CAN High: X1/3

CAN Low: X1/1



Wiring diagram no. 81.99192.2432 Sheet 1 of 2

A100





CAN databus driveline (T-CAN) with intarder or retarder/ special customer module

Legend

Wiring diagram no. **81.99192.2432** Sheet **2** of 2 Change status: 03.00

A = Oil level sensor

B = Electronically controlled air management unit

A 100	(255) Central fuse, relay and terminal block
A302	(352) Central computer 2
A409	(353) ECAM control unit
A551	(533) Control unit, oil level sensor

X 1557	Stvd. frame left
X1559	Stvd. engine/EDC/transmission IV
X2041	Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

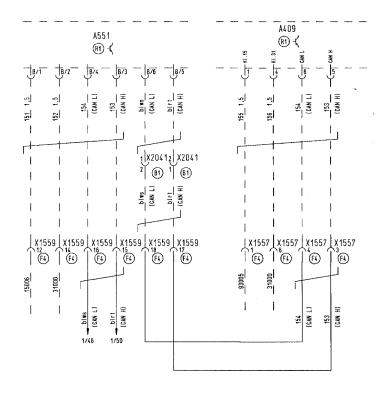
- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2432** Sheet **2** of 2

A100 (6)

A302

<u>(B)</u>



1 5 10 15 20 25 30 35 ·40 45 50 55 **B**

CAN databus driveline (T-CAN) with AS-TRONIC/ special customer module

Legend

Wiring diagram no. **81.99192.2433** Sheet **1** of 2 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Special customer module

D = Central vehicle computer

E = Oil level sensor

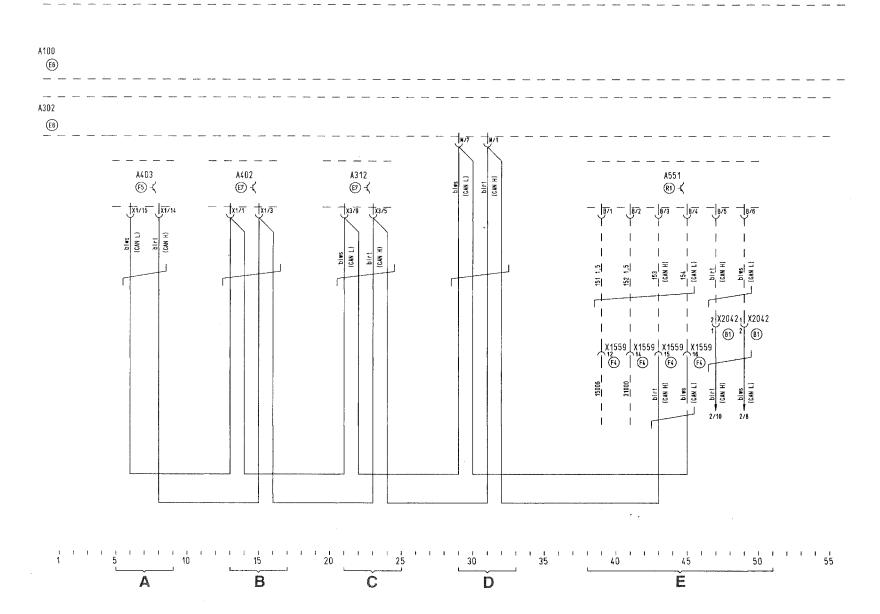
A 100	(255)	Central fuse, relay and terminal block
A302	(352)	Central computer 2
A312	(397)	Customer-specific control module
A402	(399)	EBS control unit
A403	(339)	Vehicle management computer
A551	(533)	Control unit, oil level sensor

X 1559	Stvd. engine/EDC/transmission IV
X2042	Stvd. adaptation AS-TRONIC

- A Tail
- **B1** Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2433 Sheet 1 of 2



CAN databus driveline (T-CAN) with AS-TRONIC/ special customer module

Legend

Wiring diagram no. **81.99192.2433** Sheet **2** of 2 Change status: 06.99

A = AS-TRONIC

B = Electronically controlled air management unit

	55) Central fuse, relay and terminal blo52) Central computer 2	ck
A330 (42) Control unit, AS-TRONIC (at gearb53) ECAM control unit	ox)

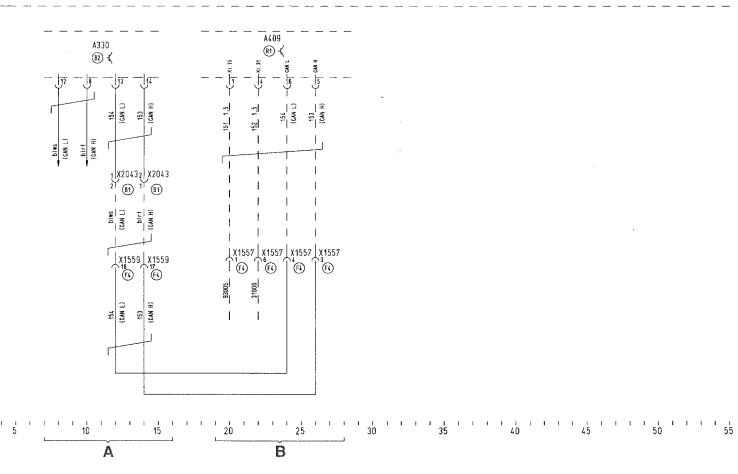
X 155/	Stvd. frame left
X1559	Stvd. engine/EDC/transmission IV
X2043	Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- § Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- ⑤ Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2433 Sheet 2 of 2

E6



CAN databus driveline (T-CAN) with intarder or retarder/ AS-TRONIC/special customer module

Legend

Wiring diagram no. **81.99192.2435** Sheet **1** of 2 Change status: 03.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Special customer module

E = Central vehicle computer

F = Oil level sensor

A100 (255) Central fuse, relay and terminal block

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC

Marking of mounting positions

(A) Tail

^{B1} Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

Steering wheel/column

F3 Foot pedals

Front wall, inside left

F5 Front wall, inside right

6 Driving seat

F7 Passenger seat

® Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

3 B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

(S1) Door left

© Door right

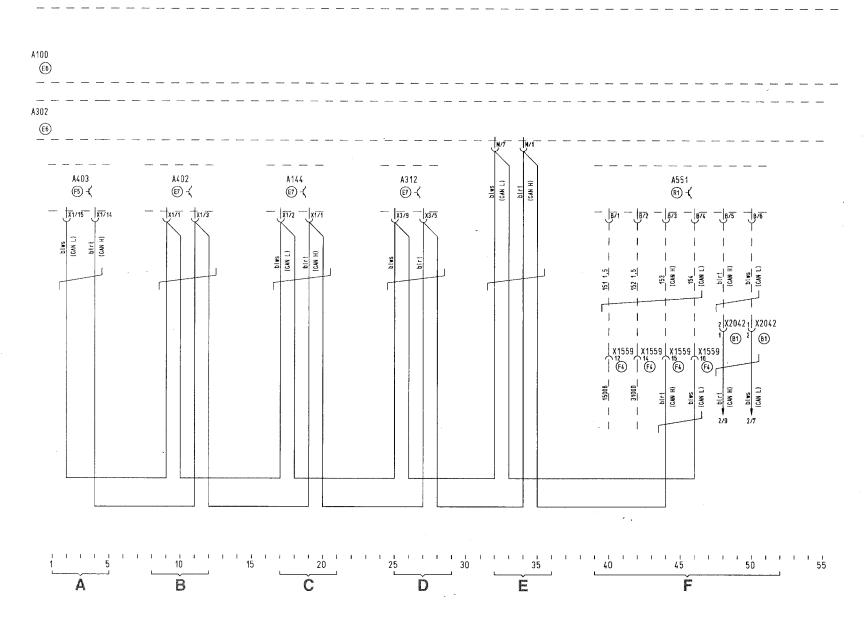
Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3

CAN Low: X1/1

Wiring diagram no. 81.99192.2435 Sheet 1 of 2



CAN databus driveline (T-CAN) with intarder or retarder/ AS-TRONIC/special customer module

Legend

Wiring diagram no. **81.99192.2435** Sheet **2** of 2 Change status: 06.99

A = AS-TRONIC

B = Electronically controlled air management unit

A 100	(255) Central fuse, relay and terminal block
A302	(352) Central computer 2
A330	(442) Control unit, AS-TRONIC (at gearbox)
A409	(353) ECAM control unit

X 1557	Stvd. frame left
X1559	Stvd. engine/EDC/transmission IV
X2043	Stvd. adaptation AS-TRONIC

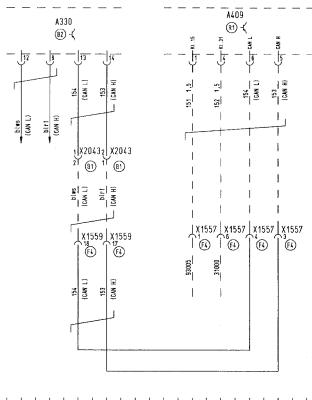
- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2 Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2435** Sheet **2** of 2

A100
[B]

A302



A B

CAN databus driveline (T-CAN) with ECAS/AS-TRONIC/RAS-EC

Legend

Wiring diagram no. **81.99192.2783** Sheet **1** of 2 Change status: 05.00

A = Vehicle management computer

B = Electronic braking system

C = Electronically controlled air suspension

D = Electronically controlled steered rear axle (RAS-EC)

E = Central vehicle computer

A 100	(255)	Central fuse, relay and terminal block
A143	(343)	ECAS control unit
A302	(352)	Central computer 2
A384	(548)	Control unit ZF – RAS-EC

A402 (399) EBS control unit

A403 (339) Vehicle management computer

X 2395	Stvd. cab rump RAS-EC 2
X2400	Crimped connector, line blue/red
X2401	Crimped connector, line blue/white

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2783 Sheet 1 of 2 A100 A384 (E8) -{ A403 ⑤ - 〈 A402 ② ⊀ A143 ② -〈 Ţ<u>x</u>17T (CAN L) X2395 X2395 17 PI S 17 PI

CAN databus driveline (T-CAN) with ECAS/AS-TRONIC/RAS-EC

Legend

Wiring diagram no. **81.99192.2783** Sheet **2** of 2 Change status: 05.00

A = Oil level sensor

B = AS-TRONIC

C = Electronically controlled air management unit

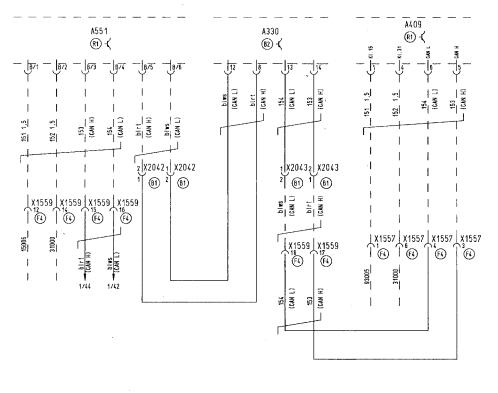
A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2 A330 (442) Control unit, AS-TRONIC (at gearbox) A409 (353) ECAM control unit A551 (533) Control unit, oil level sensor

X1557 Stvd. frame left
X1559 Stvd. engine/EDC/transmission IV
X2042 Stvd. adaptation AS-TRONIC
X2043 Stvd. adaptation AS-TRONIC

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2783 Sheet 2 of 2



CAN databus driveline (T-CAN) without ECAM

Legend

Wiring diagram no. **81.99192.2811** Sheet **1** of 1 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Central vehicle computer

D = Oil level sensor

E = Terminator

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

R155 (122) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV X2041 Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ① Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- S1 Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2811 Sheet 1 of 1 A100 <u>(£6)</u> A403 €7 ⊀ A402 (E7) -{ A551 (R1) -{ (CAN H) 1 X2041 2 X2041 2 81 1 81 153 (CAN H) 154 (CAN L)

CAN databus driveline (T-CAN) without ECAM but with AS-TRONIC

Legend

Wiring diagram no. **81.99192.2824** Sheet **1** of 1 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Central vehicle computer

D = Oil level sensor

E = AS-TRONIC

F = Terminator

A 100 (255)	Central	fuse,	relay	and	terminal	block
----------------	------	---------	-------	-------	-----	----------	-------

A302 (352) Central computer 2

A330 (442) Control unit, AS-TRONIC (at gearbox)

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

R155 (122) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC X2043 Stvd. adaptation AS-TRONIC

Marking of mounting positions

(A) Tail

(B1) Engine

(B2) Gearbox

© Front

(a) Bumper

© Entrance right

© Entrance left

© Central electrics area

(E) Control unit racks

® Rear wall of cab

F Instrument panel

(F1) Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

F6 Driving seat

Passenger seat

(FB) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

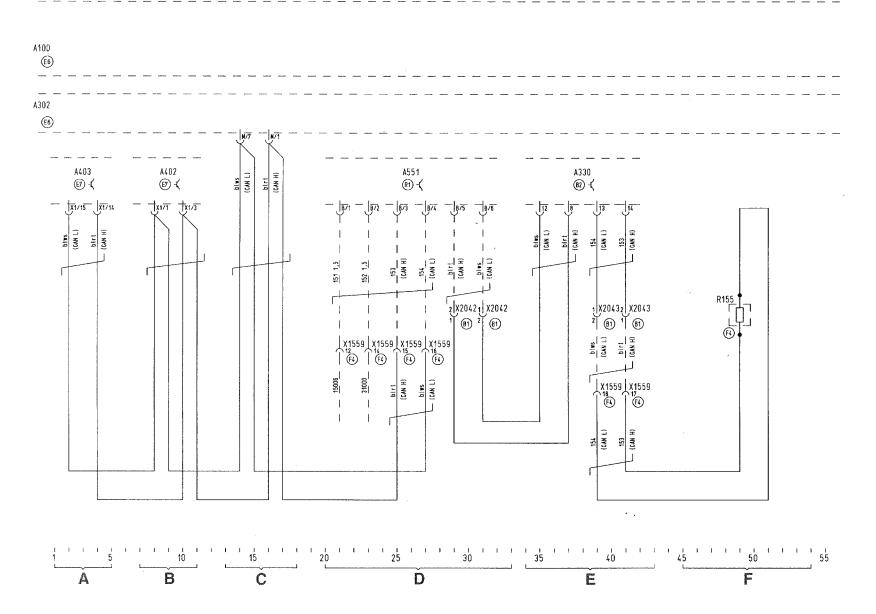
(R1) Front part of frame

Rear part of frame

⑤1 Door left

© Door right

Wiring diagram no. 81.99192.2824 Sheet 1 of 1



CAN databus driveline (T-CAN) without ECAM but with intarder or retarder

Legend

Wiring diagram no. **81.99192.2823** Sheet **1** of 1 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Central vehicle computer

E = Oil level sensor

F = Terminator

A100 (255) Central fuse, relay and terminal block

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

R155 (122) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV X2041 Stvd. adaptation AS-TRONIC

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- © Passenger seat
- (F8) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

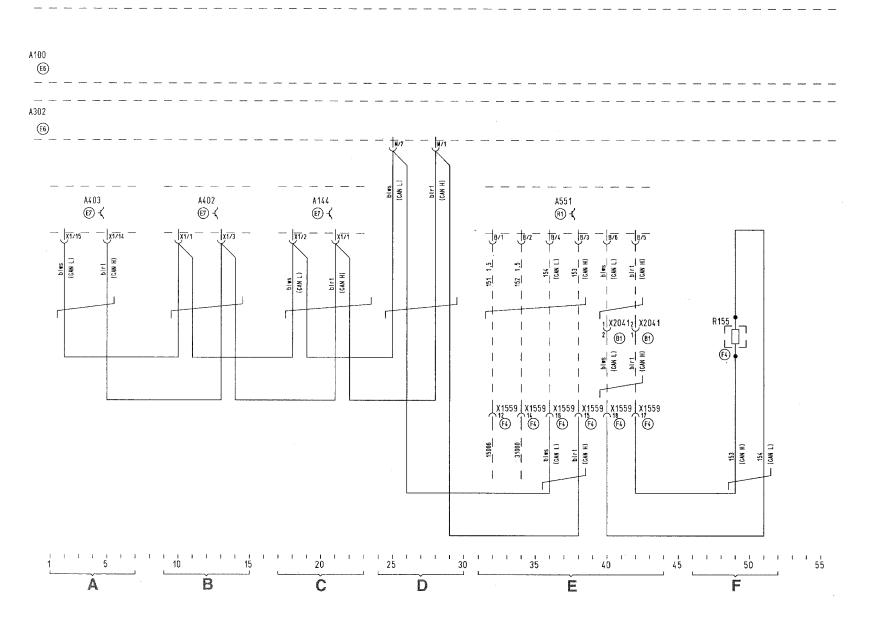
Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3

CAN Low: X1/1

Wiring diagram no. 81.99192.2823 Sheet 1 of 1



CAN databus driveline (T-CAN) without ECAM with special customer module

Legend

Wiring diagram no. **81.99192.2814** Sheet **1** of 1 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Special customer module

D = Central vehicle computer

E = Oil level sensor

F = Terminator

A 100 ((255)	Central fuse.	relay and	l terminal block
,	,	-	. c.a.	to minion broom

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

R155 (122) Terminator CAN databus

X 1559	Stvd. engine/EDC/transmission IV
X2041	Stvd. adaptation AS-TRONIC

- (A) Tail
- ^{B1} Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- (N) Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2814 Sheet 1 of 1 A100 DIWS (CAN L) A402 €7 **≺** A312 (E7) -(A403 A551 ®1 ⊀ €7) -{ DIWS (CAN L) blr1 (CAN H) blws (CAN L) birt (CAN H 1 X2041₂ X2041 2 81 1 81 (CAN L) 153 (CAN H) 154 (CAN L) Ě

CAN databus driveline (T-CAN) without ECAM but with AS-TRONIC/ special customised module

Legend

Wiring diagram no. **81.99192.2819** Sheet **1** of 2 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Special customer module

D = Central vehicle computer

E = Oil level sensor

A100 (255) Central fuse, relay and terminal block	A 100 (255) Central	fuse, relay	and terminal	block
---	----------------	--------------	-------------	--------------	-------

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2819 Sheet 1 of 2 A100 <u>(E6)</u> A402 (E7) -{ A312 (E7) -{ A551 ®1 ⊀ (F5) -{ bles (CAN L) blrt (CAN H) | X1559 | X155 31000 (CAN H)

CAN databus driveline (T-CAN) without ECAM but with AS-TRONIC/ special customised module

Legend

Wiring diagram no. **81.99192.2819** Sheet **2** of 2 Change status: 06.00

A = AS-TRONIC B = Terminator

A100 (255) Central fuse, relay and terminal block
A302 (352) Central computer 2
A330 (442) Control unit, AS-TRONIC (at gearbox)

R155 (112) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV X2043 Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

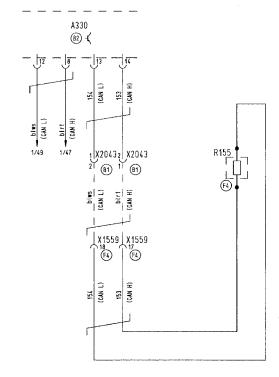
- F6 Driving seat
- Passenger seat
- © Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2819 Sheet 2 of 2

A100 (E6)

> --- ---A302

<u>(E6)</u>



5 10 15 20 25 30 35 40 45 50 55

CAN databus driveline (T-CAN) without ECAM but with ECAS/ AS-TRONIC/RAS-EC

Legend

Wiring diagram no. **81.99192.2827** Sheet **1** of 2 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Electronically controlled air suspension

D = Electronically controlled steered rear axle (RAS-EC)

E = Central vehicle computer

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A302 (352) Central computer 2

A384 (548) Control unit ZF – RAS-EC

A402 (399) EBS control unit

A403 (339) Vehicle management computer

X2395 Stvd. cab rump RAS-EC 2

X2400 Crimped connector, line blue/red X2401 Crimped connector, line blue/white

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- (E7) Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (12) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2827 Sheet 1 of 2 A100 A302 (£6) A403 (E7) -{ A402 ② ⊀ A384 €8 ⊀ A143 €7 -{ Tx1/1 Tx1/3 (CAN L) bivs (CAN L) \$\frac{1}{8\text{3}} \\ \frac{\sqrt{1}}{8\text{3}} \\ \frac{\sqrt{2}}{8\text{3}} \\ \frac{\sqrt{2}}{8\text{3}} \\ \frac{\sqrt{2}}{8\text{3}} \\ \frac{\sqrt{2}}{8\text{3}} \\ \frac{\sqrt{2}}{3\text{3}} \\ \frac{1}{3\text{3}} \\ \f (CAN E) 2/15

CAN databus driveline (T-CAN) without ECAM but with ECAS/ AS-TRONIC/RAS-EC

Legend

Wiring diagram no. **81.99192.2827** Sheet **2** of 2 Change status: 06.00

A = Oil level sensor

B = AS-TRONIC

C = Terminator

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A330 (442) Control unit, AS-TRONIC (at gearbox)

A551 (533) Control unit, oil level sensor

R155 (112) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV

X2042 Stvd. adaptation AS-TRONIC

X2043 Stvd. adaptation AS-TRONIC

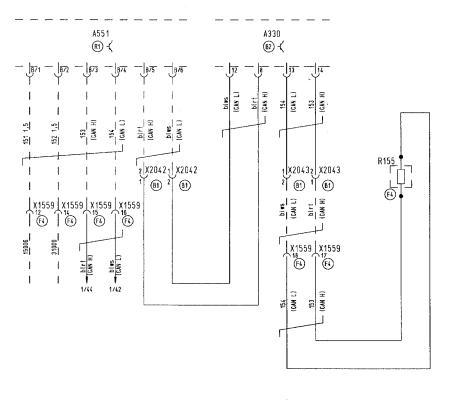
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2827 Sheet 2 of 2

A100
(6)

A302
(8)



A B C

CAN databus driveline (T-CAN) without ECAM but with intarder or retarder/special customer module

Legend

Wiring diagram no. **81.99192.2818** Sheet **1** of 2 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Special customer module

E = Central vehicle computer

A100 (255) Central fuse, relay and terminal block

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

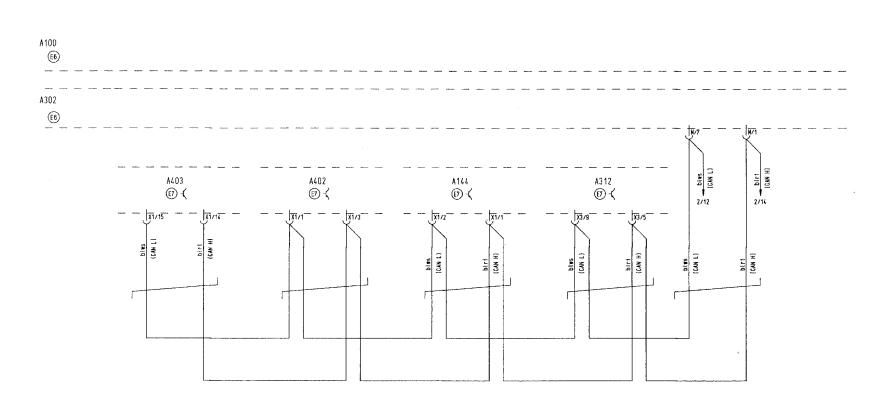
Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3
CAN Low: X1/1



Wiring diagram no. **81.99192.2818** Sheet **1** of 2



1 5 10 10 15 20 1 30 35 40 45 50 55 A B C D E

CAN databus driveline (T-CAN) without ECAM but with intarder or retarder/special customer module

Legend

Wiring diagram no. **81.99192.2818** Sheet **2** of 2 Change status: 06.00

A = Oil level sensor B = Terminator

A100 (255) Central fuse, relay and terminal blockA302 (352) Central computer 2A551 (533) Control unit, oil level sensor

R155 (112) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV X2041 Stvd. adaptation AS-TRONIC

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

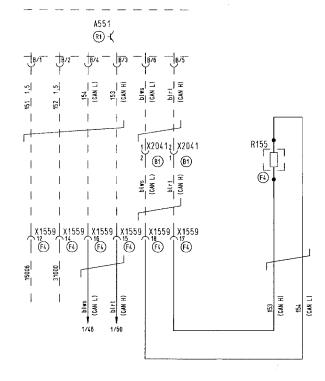
- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2818 Sheet 2 of 2

A100 (E)

A302

<u>(6)</u>



1 5 10 15 20 25 30 35 40 45 50 55 **B**

CAN databus driveline (T-CAN) without ECAM but with intarder or retarder/AS-TRONIC

Legend

Wiring diagram no. **81.99192.2826** Sheet **1** of 1 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Central vehicle computer

E = Oil level sensor

F = AS-TRONIC

G = Terminator

A 100	(255)	Central fuse, relay and terminal block
A 4 4 4	/A=4\	O = mau = 1 · · · · · · · · · · · · · · · · · ·

A144 (451) Control unit, retarder

A302 (352) Central computer 2

A330 (442) Control unit, AS-TRONIC (at gearbox)

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

R155 (122) Terminator CAN databus

X 1559	Stvd. engine/EDC/transmission IV
X2042	Stvd. adaptation AS-TRONIC
X2043	Stvd. adaptation AS-TRONIC

Marking of mounting positions

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Note

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3

CAN Low: X1/1

Wiring diagram no. 81.99192.2826 Sheet 1 of 1 A100 A402 (E7) -{ A144 (E7) -(A551 R1) -{ A330 @2 -{ (CAN L) birt (CAN H) £7) -{ $-\sqrt{\frac{1}{x^{1/2}}}$ DIWS (CAN L) birt (CAN H) 2 X2042 1 X2042 1 81 2 81 1 X2043₂ X2043 2 B1 1 B1 X1559 X1559 154 (CAN L) 153 (CAN H)

CAN databus driveline (T-CAN) without ECAM but with intarder or retarder/AS-TRONIC/special customer module

Legend

Wiring diagram no. **81.99192.2821** Sheet **1** of 2 Change status: 06.00

A = Vehicle management computer

B = Electronic braking system

C = Intarder

D = Special customer module

E = Central vehicle computer

F = Oil level sensor

A 100	(255)	Central fuse, relay and terminal block
A 1 1 1	(151)	Control unit rotordor

A144 (451) Control unit, retarder A302 (352) Central computer 2

A312 (397) Customer-specific control module

A402 (399) EBS control unit

A403 (339) Vehicle management computer

A551 (533) Control unit, oil level sensor

X 1559	Stvd. engine/EDC/transmission IV
X2042	Stvd. adaptation AS-TRONIC

Marking of mounting positions

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

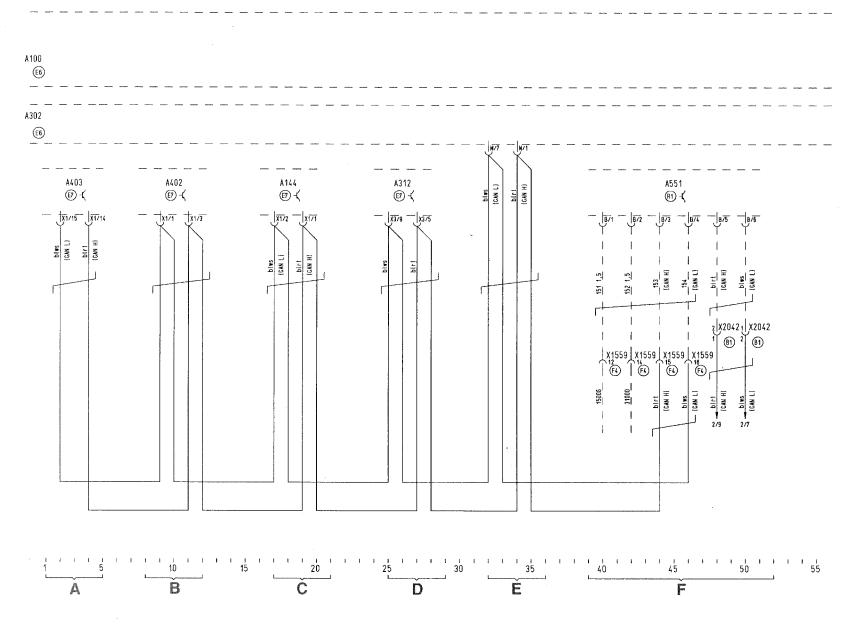
- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Note:

The pin assignment for the **A144** control unit shown in the wiring diagram only corresponds to EST 48 for intarders!

The pin assignment for Voith retarders is: CAN High: X1/3

Wiring diagram no. 81.99192.2821 Sheet 1 of 2



CAN databus driveline (T-CAN) without ECAM but with intarder or retarder/AS-TRONIC/special customer module

Legend

Wiring diagram no. **81.99192.2821** Sheet **2** of 2 Change status: 06.00

A = AS-TRONIC B = Terminator

A100 (255) Central fuse, relay and terminal blockA302 (352) Central computer 2A330 (442) Control unit, AS-TRONIC (at gearbox)

R155 (112) Terminator CAN databus

X1559 Stvd. engine/EDC/transmission IV X2043 Stvd. adaptation AS-TRONIC

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

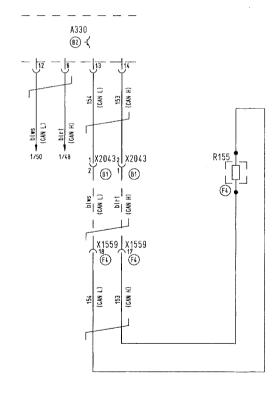
- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2821 Sheet 2 of 2

A100

<u>(E6)</u>



25 30 35 40 45 55

ADDITIONAL WIRING DIAGRAMS

K 90 4.04 - 1

Differential lock longitudinal and transverse 3-axle

Legend

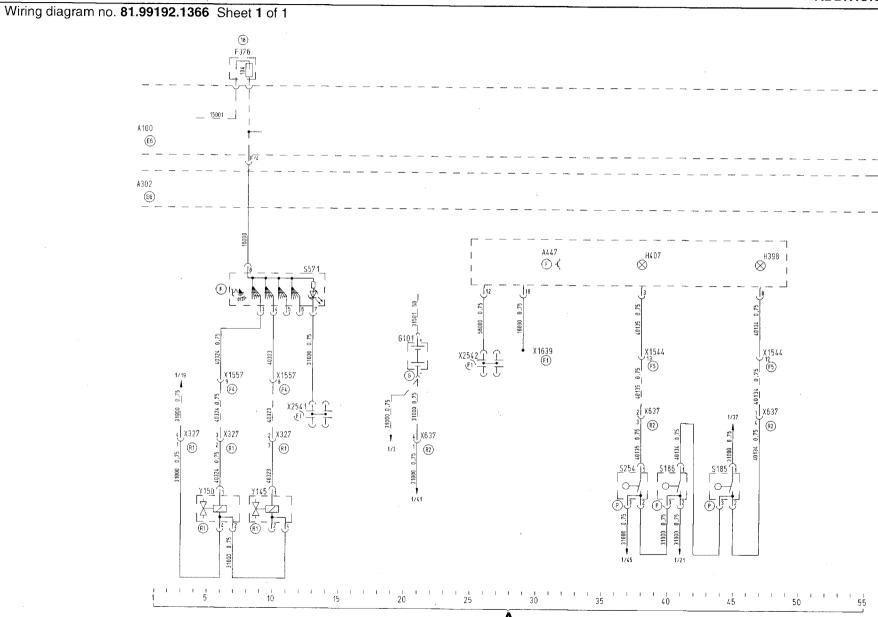
Wiring diagram no. **81.99192.1366** Sheet **1** of 1 Change status: 04.01

A = Differential lock

A 100 A302 A447	(352)	Central fuse, relay and terminal block Central computer 2 Multi-functional display, differential locks
F 376	(101)	Fuse, cab interior (terminal 15)
G 101	(113)	Battery 2
H 398 H407		Indicator light, differential lock, rear axle, transverse Indicator light, differential lock, rear axle, longitudinal
S 185 S186 S254 S571	(328) (328)	Switch, indicator, differential lock, rear axle, transverse Indicator light, differential lock, 2nd rear axle, transverse Indicator light, differential lock, rear axle, transverse Switch for differential locks
X327 X637 X1544 X1557 X1639 X2541 X2542		Stvd. solenoid valve, frame Stvd. differential lock, rear axle Stvd. frame III Stvd. frame, left Soldered connector, line 16000 Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000
Y 145 Y150		Solenoid valve, differential lock, rear axle, transverse Solenoid valve, differential lock, longitudinal

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ^(A1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Differential lock transverse, rear axle

Legend

Wiring diagram no. **81.99192.1365** Sheet **1** of 1 Change status: 04.01

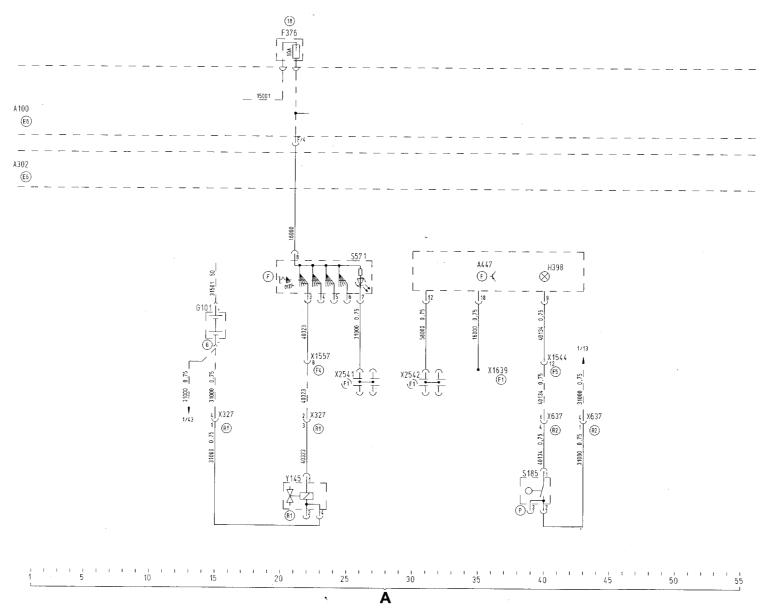
A = Differential lock

A 100 A302 A447	(352)	Central fuse, relay and terminal block Central computer 2 Multi-functional display, differential locks
F 376	(101)	Fuse, cab interior (terminal 15)
G 101	(113)	Battery 2
H 398		Indicator light, differential lock, rear axle, transverse
S 185 S571		Switch, indicator, differential lock, rear axle, transverse Switch for differential locks
X327 X637 X1544 X1557 X1639 X2541 X2542	(246)	Stvd. solenoid valve, frame Stvd. differential lock, rear axle Stvd. frame III Stvd. frame, left Soldered connector, line 16000 Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000
Y 145	(126)	Solenoid valve, differential lock, rear axle, transverse

- (A) Tail
- B1 Engine
- B2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- (92) Rear part of frame
- S1 Door left
- © Door right

Wiring diagram no. 81.99192.1365 Sheet 1 of 1



K 90 4.05 - 1

EBS electronic braking system

Legend

B337

Wiring diagram no. **81.99192.2987** Sheet **1** of 3 Change status: 03.01

A = Pressure control module, front axle, left B = Pressure control module, front axle, right C = Pressure control module, rear axle

A100 (255) Central fuse, relay and terminal blockA302 (352) Central computer 2A402 (399) EBS control unit

B119 (245) Engine speed sensor, front axle, left (246) Engine speed sensor, front axle, right B120 (247) Engine speed sensor, driving shaft, left B121 (248) Engine speed sensor, driving shaft, right B122 (243) Sensor, brake pad, front axle, right B332 (253) Sensor, brake pad, front axle, left B333 (254) Sensor, brake pad, drive shaft, right B334 (255) Sensor, brake pad, drive shaft, left B335 (256) ALB (load) sensor, drive shaft B336

X1548 Stvd. frame IV X1557 Stvd. frame left

(244) Brake sensor

Y262 (170) Pressure control module, front axle, right Y263 (170) Pressure control module, front axle, left Y264 (171) Pressure control module, rear axle

Marking of mounting positions

(A) Tail

®1 Engine

B2 Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

E8 Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

F6 Driving seat

Passenger seat

(F8) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

A-pillar on passenger's side

(L) Ceiling/roof

N Front axle

P Rear axle

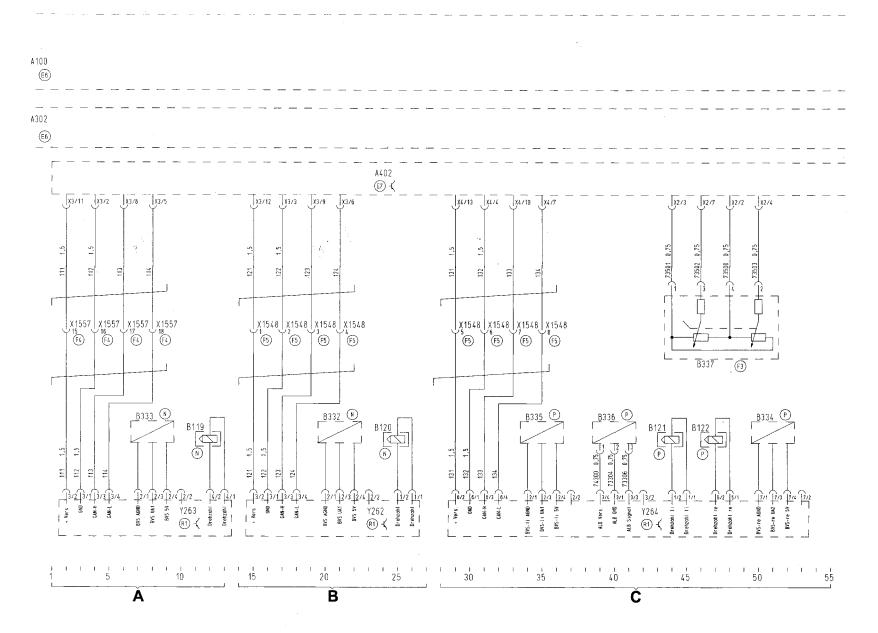
R1 Front part of frame

Rear part of frame

© Door left

© Door right

Wiring diagram no. 81.99192.2987 Sheet 1 of 3



EBS electronic braking system

Legend

Wiring diagram no. **81.99192.2987** Sheet **2** of 3 Change status: 03.01

A = Trailer lighting socket

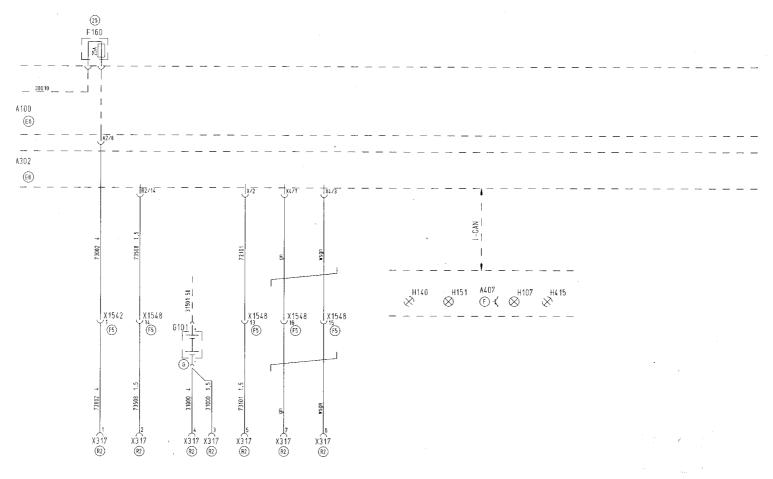
B = Indicator lights

A 100 A302 A402 A407	(352) (399)	Central fuse, relay and terminal block Central computer 2 EBS control unit Instrumentation
F 160	(105)	Fuse EBS/ABS power supply, trailer
G 101	(113)	Battery 2
H 107 H140 H151 H415		Indicator light, ABS tractor vehicle/trailer Indicator light, ASR/ESP information Indicator light, ABS information, trailer Indicator light, driving stability
X 317 X1542 X1548	(202)	Trailer lighting socket, ABS Stvd. frame II Stvd. frame IV

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2987 Sheet 2 of 3



Å B

EBS electronic braking system

Legend

Wiring diagram no. **81.99192.2987** Sheet **3** of 3 Change status: 03.01

A = Supply voltage

B = Trailer control module

C = ASR traction control – slip thresholds

D = Diagnosis

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2 A402 (399) EBS control unit

F161 (103) Fuse, EBS/ABS power supply pressure control valve

F162 (111) Fuse EBS/ABS control

\$256 (455) Control switch, ASR slip threshold increase

X1548 Stvd. frame IV

X1616 Stvd. trailer control module

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X2541 (246) Potential distributor, 21-pin line 31000

X2542 (246) Potential distributor, 21-pin line 58000

X2544 (246) Potential distributor 21-pin K-line

Y278 (175) Trailer control module

Marking of mounting positions

(A) Tail

(B1) Engine

(B2) Gearbox

© Front

©1) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

f) Instrument panel

© Central part

Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

Passenger seat

⊕ Control panel

G Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J) B-pillar on passenger's side

(2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

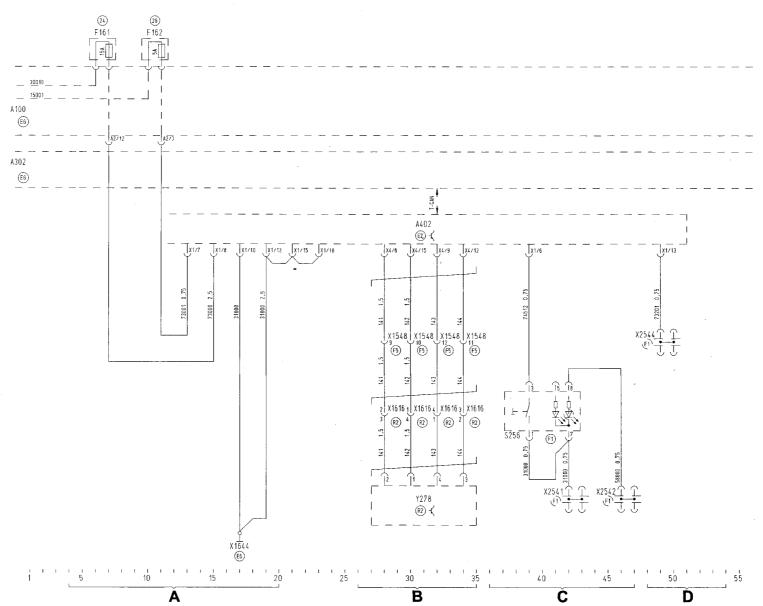
⑤1 Door left

© Door right

Note:

In the case of ASR with ESP, S256 is replaced by S788!

Wiring diagram no. 81.99192.2987 Sheet 3 of 3



ECAM electronically controlled air management unit fallback level

Legend

Wiring diagram no. **81.99192.2810** Sheet **1** of 1 Change status: 06.00

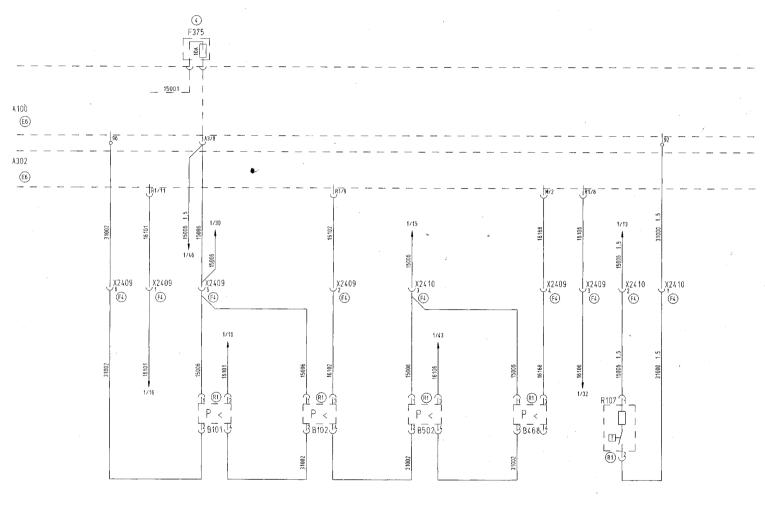
A = ECAM fallback level

A 100 A302		Central fuse, relay and terminal block Central computer 2
B1 01 B102 B468 B502	(351) (351)	Transmitter reservoir pressure brake circuit 1 Transmitter reservoir pressure brake circuit 2 Transmitter reservoir pressure brake circuit 4 Transmitter reservoir pressure brake circuit 3
F 375	(101)	Fuse, cab outside (terminal 15)
R 107	(161)	Air dryer
X 2409 X2410		Stvd. ECAM fallback level I Stvd. ECAM fallback level II

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2810 Sheet 1 of 1



ECAS electronically controlled air suspension 4x2 FL (truck)

Legend

Wiring diagram no. **81.99192.1337** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

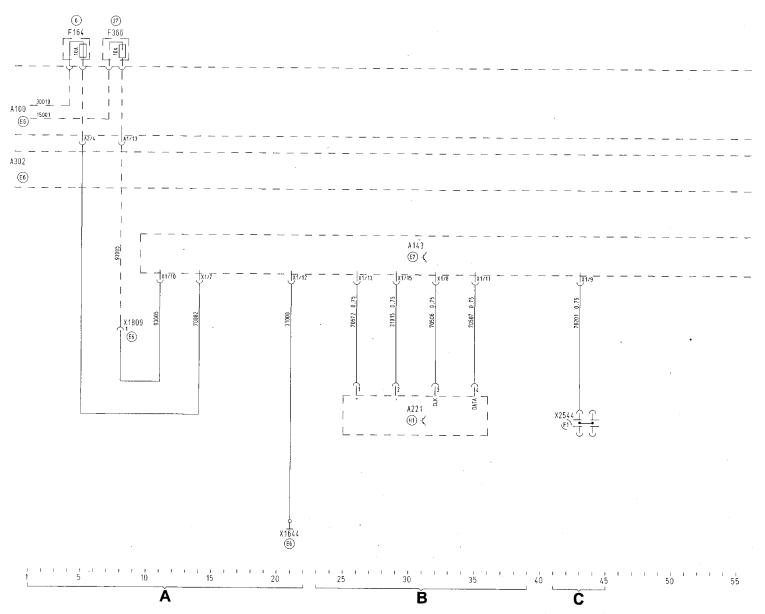
X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.1337 Sheet 1 of 2



ECAS electronically controlled air suspension 4x2 FL (truck)

Legend

Wiring diagram no. **81.99192.1337** Sheet **2** of 2 Change status: 04.01

A = Height sensors B = Solenoid valves

C = Indicator light

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A302 (352) Central computer 2

A407 (342) Instrumentation

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

H394 Indicator light, ECAS malfunction/warning

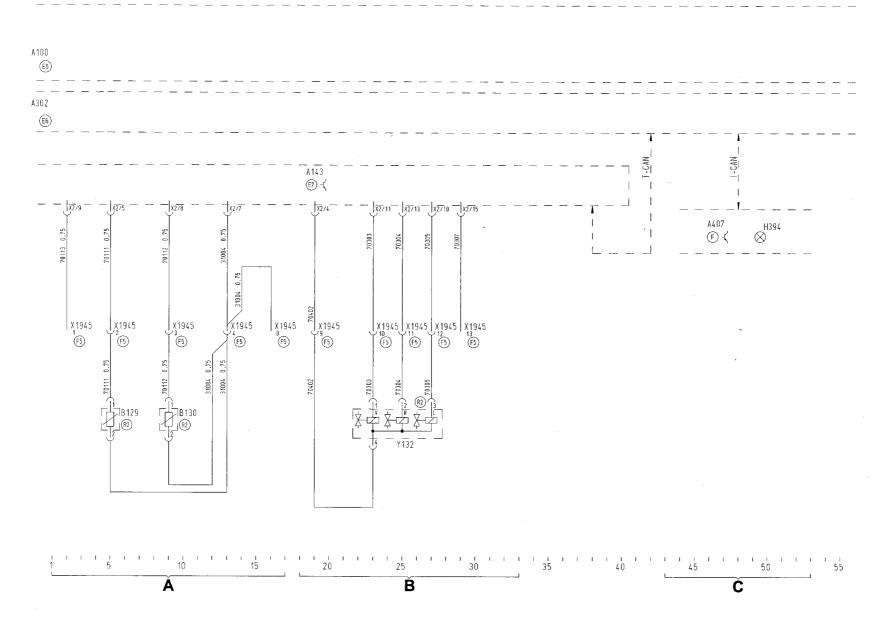
X1945 Stvd. ECAS/EFR

Y132 (168) ECAS valve block

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ©2) Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1337 Sheet 2 of 2



ECAS electronically controlled air suspension 4x2 FL (semitrailer)

Legend

Wiring diagram no. **81.99192.1336** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

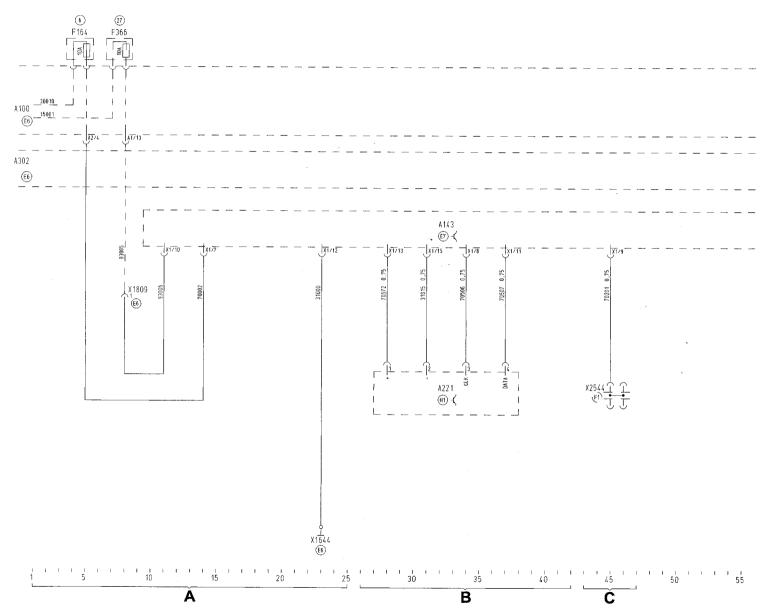
X1809 Stvd. ECAS (terminal 15)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1336 Sheet 1 of 2



ECAS electronically controlled air suspension 4x2 FL (semitrailer)

Legend

Wiring diagram no. **81.99192.1336** Sheet **2** of 2 Change status: 04.01

A = Height sensors

B = Solenoid valves

C = Indicator light

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A302 (352) Central computer 2

A407 (342) Instrumentation

B130 (311) Height sensor, rear axle right

H394 Indicator light, ECAS malfunction/warning

X1945 Stvd. ECAS/EFR

Y132 (167) ECAS valve block

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- f Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.1336** Sheet **2** of 2 A100 (E6) A143 X1945 F5 X1945 F5 X1945 F5 X1945 X1945 10 F5 X1945 X1945 12 (F5) X1945 X1945 13 F5 1 5 10 15 20 25 30 35 40 45 50 55 B

ECAS electronically controlled air suspension 4x2 FLL

Legend

Wiring diagram no. **81.99192.1338** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (343) ECAS control unit

A221 (350) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

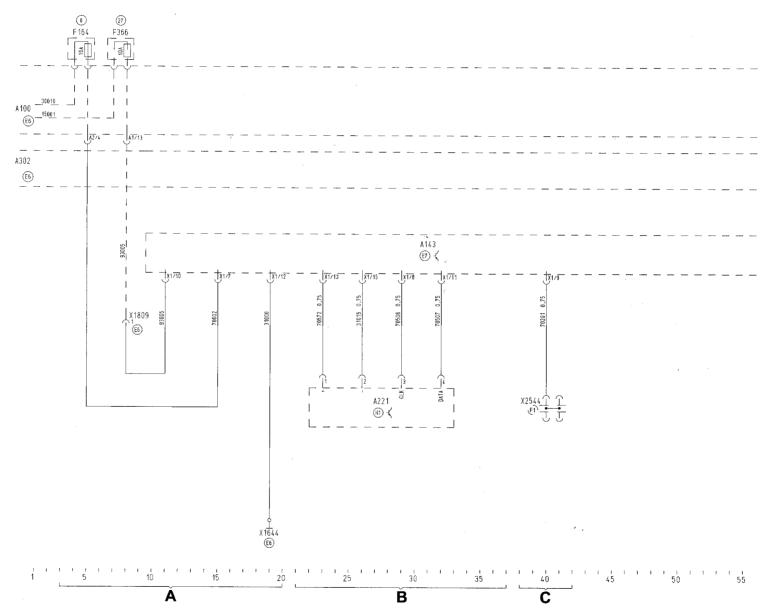
X1809 Stvd. ECAS (terminal 15)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1338 Sheet 1 of 2



ECAS electronically controlled air suspension 4x2 FLL

Legend

Wiring diagram no. **81.99192.1338** Sheet **2** of 2 Change status: 04.01

A = Height sensors
B = Solenoid valves
C = Indicator light

A100 (255) Central fuse, relay and terminal block
A143 (343) ECAS control unit
A302 (352) Central computer 2
A407 (342) Instrumentation
B128 (311) Height sensor, front axle

B129 (311) Height sensor, rear axle left B130 (311) Height sensor, rear axle right

H394 Indicator light, ECAS malfunction/warning

X1945 Stvd. ECAS/EFR

Y132 (124) ECAS valve block

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- (F) Instrument panel
- © Central part
- § Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1338 Sheet 2 of 2 A100 A302 A143 E7 -{ X1945 F5 X1945 X1945 X1945 X1945 X1945 X1945 X1945 X1945 X1945 28 1 B129 B130 B130 B128 [

ECAS electronically controlled air suspension 6x2 FNL

Legend

Wiring diagram no. **81.99192.1339** Sheet **1** of 2 Change status: 04.01

A = Switch

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block A143 (344) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2 A407 (342) Instrumentation

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

H394 Indicator light, ECAS malfunction/warning

\$266 (514) Switch ECAS NLA/VLA raise/release

S267 (515) Control switch ECAS traction help

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

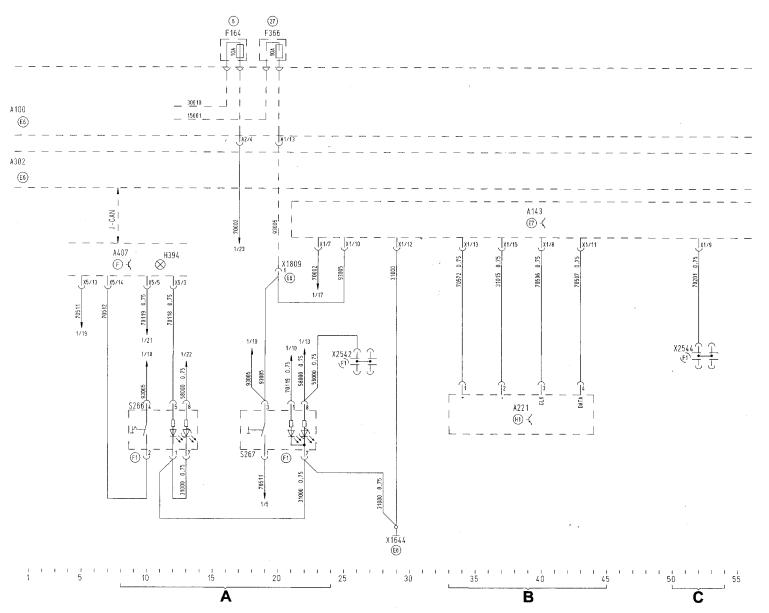
X2542 (246) Potential distributor, 21-pin line 58000

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ^(B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.1339** Sheet **1** of 2



ECAS electronically controlled air suspension 6x2 FNL

Legend

Wiring diagram no. **81.99192.1339** Sheet **2** of 2 Change status: 04.01

A = Height sensors B = Solenoid valves

A100 (255) Central fuse, relay and terminal block

A143 (344) ECAS control unit

A302 (352) Central computer 2

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- ©7 Control unit racks
- Rear wall of cab
- f Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1339 Sheet 2 of 2 A100 (E6) A143 (£7) -{ X1945 F5 X1945 F5 X1945 F5 | X1945 | X194 X1945 X1945 $\frac{1}{1}$ · | <u>52/2</u> - | <u>62/4</u> 1 5 10 15 20 25 30 35 40 45 50 55

ECAS electronically controlled air suspension 6x2 FNL (Nordland)

Legend

Wiring diagram no. **81.99192.1348** Sheet **1** of 2 Change status: 04.01

A = Supply voltage, switch

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block A143 (344) ECAS control unit

A221 (350) ECAS remote control

A302 (352) Central computer 2

A407 (342) Instrumentation

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

H394 Indicator light, ECAS malfunction/warning

S747 (680) Switch ECAS traction help Nordland

S790 (699) Control switch ECAS lift/relieve trailing/

leading axle Nordland

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

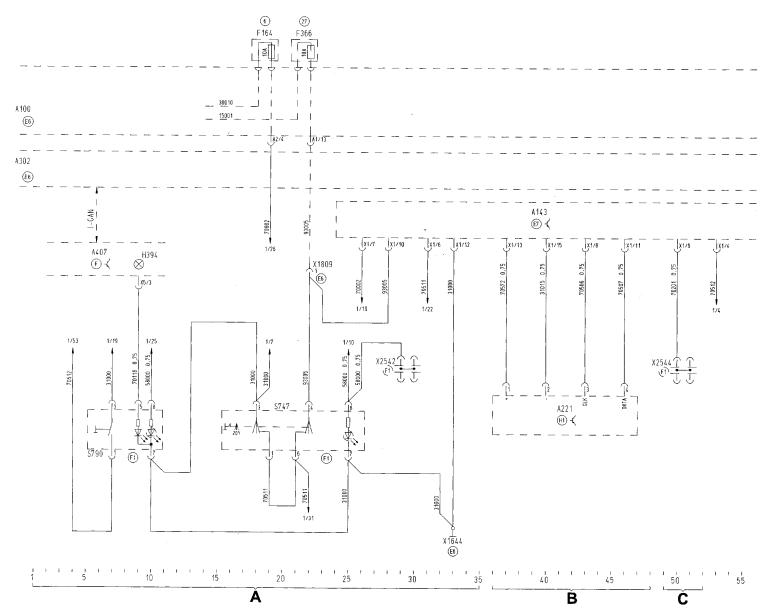
X2542 (246) Potential distributor, 21-pin line 58000

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- f Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1348 Sheet 1 of 2



ECAS electronically controlled air suspension 6x2 FNL (Nordland)

Legend

Wiring diagram no. **81.99192.1348** Sheet **2** of 2 Change status: 04.01

A = Height sensors

B = Solenoid valves

A100 (255) Central fuse, relay and terminal block

A143 (344) ECAS control unit

A302 (352) Central computer 2

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- © Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1348 Sheet 2 of 2 A100 A302 (E6) A143 (E7) -(TX2/10 TX2/13 TX2/11 TX2/14 TX2/12 X1945 X1945 X.1945 X1945 8 F5 | X1945 | X194

ECAS electronically controlled air suspension 6x2 FNLL

Legend

Wiring diagram no. **81.99192.1340** Sheet **1** of 2 Change status: 04.01

A = Switch

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (344) ECAS control unit

A221 (350) ECAS remote control

A302 (352) Central computer 2

A407 (342) Instrumentation

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

H394 Indicator light, ECAS malfunction/warning

\$266 (514) Switch ECAS NLA/VLA raise/release

S267 (515) Control switch ECAS traction help

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

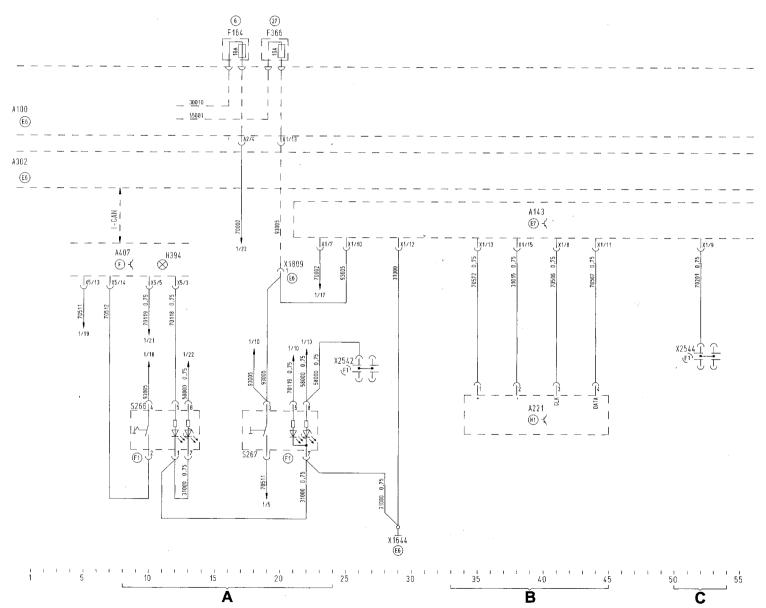
X2542 (246) Potential distributor, 21-pin line 58000

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1340 Sheet 1 of 2



ECAS electronically controlled air suspension 6x2 FNLL

Legend

Wiring diagram no. **81.99192.1340** Sheet **2** of 2 Change status: 04.01

A = Height sensors B = Solenoid valves

A100 (255) Central fuse, relay and terminal block
A143 (344) ECAS control unit
A302 (352) Central computer 2
B128 (311) Height sensor, front axle
B129 (311) Height sensor, rear axle left
B130 (311) Height sensor, rear axle right

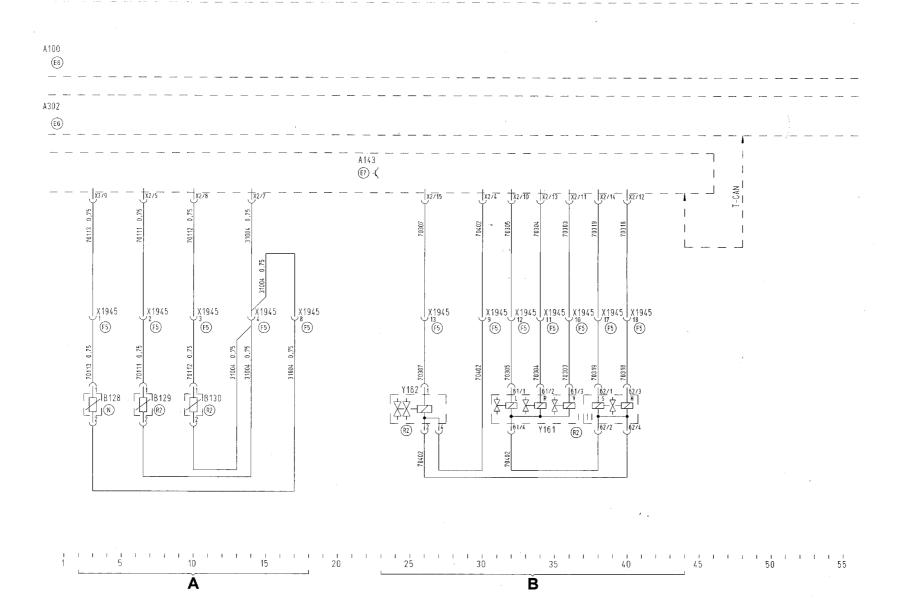
X1945 Stvd. ECAS/EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA Y162 (128) Solenoid valve block ECAS front axle

- (A) Tail
- B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- (F) Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- (F7) Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1340 Sheet 2 of 2



ECAS electronically controlled air suspension 6x2 FNLL (Nordland)

Legend

Wiring diagram no. **81.99192.1349** Sheet **1** of 2 Change status: 04.01

A = Supply voltage, switch

B = Remote control

C = Diagnosis

(255) Central fuse, relay and terminal block **A**100 (344) ECAS control unit A143 (350) ECAS remote control A221 (352) Central computer 2 A302 (342) Instrumentation A407 (101) Fuse ECAS (terminal 30) **F**164 (101) ECAM/ECAS fuse (terminal 15) F366 Indicator light, ECAS malfunction/warning H394

\$747 (680) Switch ECAS traction help Nordland
 \$790 (699) Control switch ECAS lift/relieve trailing/leading axle Nordland

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15) X2542 (246) Potential distributor, 21-pin line 58000

X2542 (246) Potential distributor, 21-pin line 580 X2544 (246) Potential distributor 21-pin K-line

Marking of mounting positions

(A) Tail

^{®1} Engine

B2 Gearbox

© Front

©1) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

F6 Driving seat

F7 Passenger seat

(F8) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

A-pillar on passenger's side

(L) Ceiling/roof

N Front axle

P Rear axle

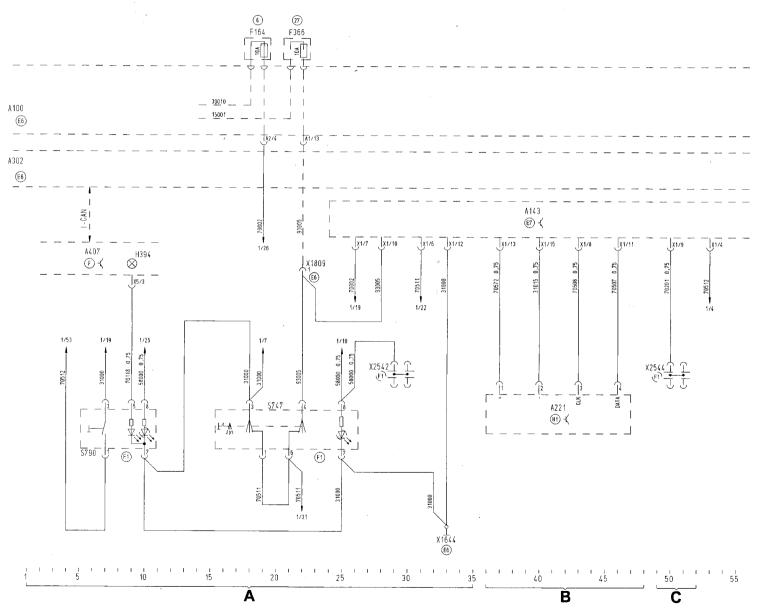
(R1) Front part of frame

Rear part of frame

⑤1 Door left

© Door right

Wiring diagram no. 81.99192.1349 Sheet 1 of 2



ECAS electronically controlled air suspension 6x2 FNLL (Nordland)

Legend

Wiring diagram no. **81.99192.1349** Sheet **2** of 2 Change status: 04.01

A = Height sensors

B = Solenoid valves

A 100	(255)	Central	fuse,	relay	and	terminal	block
--------------	-------	---------	-------	-------	-----	----------	-------

A143 (344) ECAS control unit

A302 (352) Central computer 2

B128 (311) Height sensor, front axle

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

Y161 (169) Solenoid valve ECAS I = HA (rear axle) II = NLA/VLA (trailing/leading axle)

Y162 (128) Solenoid valve ECAS front axle

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. **81.99192.1349** Sheet **2** of 2 A100 (E6) A143 E7) -{ 1x2/10 1x2/13 1x2/11 1x2/14 1x2/12 _X1945 | X1945 | X194 X1945 X1945 B129 ® 161/4 Y161 (R2) 1 5 10 15 20 25 1 30 35 40 45 50 55

ECAS electronically controlled air suspension 6x2 FVL

Legend

Wiring diagram no. **81.99192.1341** Sheet **1** of 2 Change status: 04.01

A = Switch

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (344) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

A407 (342) Instrumentation

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

H394 Indicator light, ECAS malfunction/warning

\$266 (519) Switch ECAS NLA/VLA raise/release

S267 (563) Control switch ECAS traction help

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

X2542 (246) Potential distributor, 21-pin line 58000

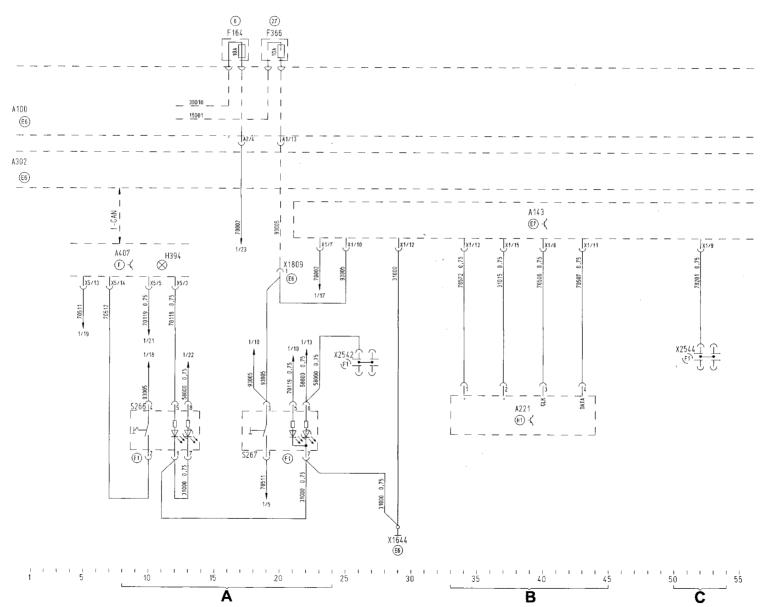
X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1341 Sheet 1 of 2



ECAS electronically controlled air suspension 6x2 FVL

Legend

Wiring diagram no. **81.99192.1341** Sheet **2** of 2 Change status: 04.01

A = Height sensors B = Solenoid valves

A100 (255) Central fuse, relay and terminal block

A143 (344) ECAS control unit A302 (352) Central computer 2

B129 (311) Height sensor, rear axle left B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1341 Sheet 2 of 2 A100 (E6) (E6) A143 Jx2710 Jx2713 Jx2711 Jx2714 Jx2712 X1945 F5 X1945 X1945 X1945 F5 | X1945 | X194

ECAS electronically controlled air suspension Switch level 1/2

Legend

Wiring diagram no. **81.99192.1368** Sheet **1** of 1 Change status: 04.01

A = Switch ECAS level 1/2

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2 A407 (342) Instrumentation

\$472 (516) Switch ECAS level 1/2

X1809 Stvd. ECAS (terminal 15) X2541 (246) Potential distributor, 21-pin line 31000 X2542 (246) Potential distributor, 21-pin line 58000

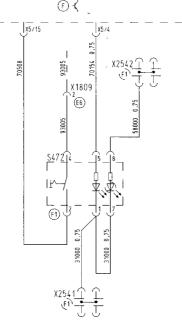
- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1368 Sheet 1 of 1

A100 (E6)

A302



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FL (semitrailer)

Legend

Wiring diagram no. **81.99192.1342** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (345) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1809 Stvd. ECAS (terminal 15)

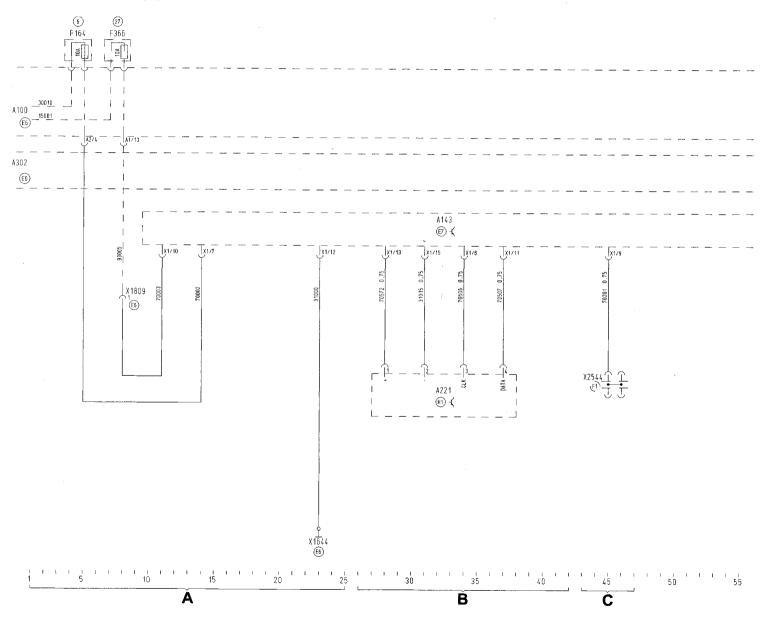
X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1342 Sheet 1 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FL (semitrailer)

Legend

Wiring diagram no. **81.99192.1342** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

D = Control lamp

A100 (255) Central fuse, relay and terminal block
A143 (345) ECAS control unit
A302 (352) Central computer 2
A407 (342) Instrumentation

B128 (311) Height sensor, front axle B130 (311) Height sensor, rear axle right

H394 Indicator light, ECAS malfunction/warning

X1945 Stvd. ECAS/EFR X2004 Stvd. cab frame EFR

Y132 (167) Solenoid valve block ECAS Y172 (203) Adjustable shock absorber on rear axle right

Y173 (203) Adjustable shock absorber on rear axle left

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F Front wall, inside right

F6 Driving seat

F7 Passenger seat

(F8) Control panel

G Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

⑤1 Door left

© Door right

ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FL (truck)

Legend

Wiring diagram no. **81.99192.1343** Sheet **1** of 2 Change status: 04.01

A = Supply voltage B = Remote control C = Diagnosis

A100 (OFF) Control for

A100 (255) Central fuse, relay and terminal block

A143 (345) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

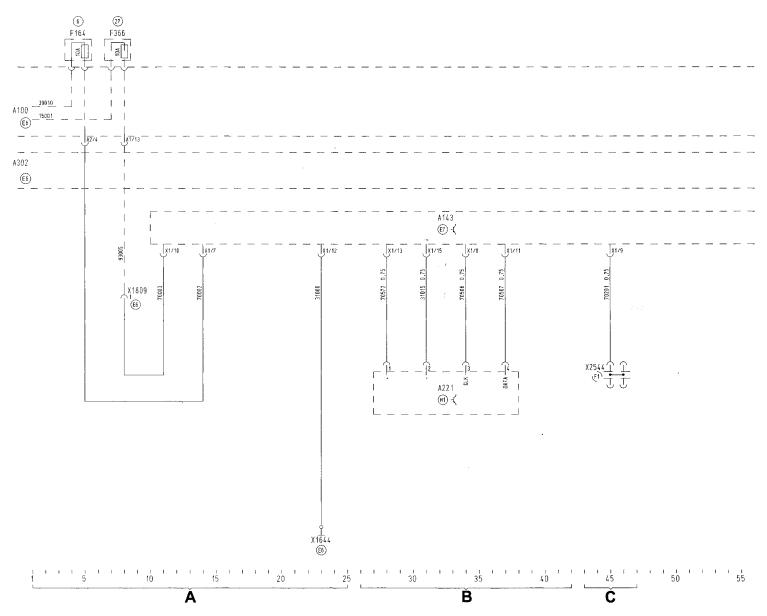
X1809 Stvd. ECAS (terminal 15)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ^{B1} Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. **81.99192.1343** Sheet **1** of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FL (truck)

Legend

Wiring diagram no. **81.99192.1343** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

D = Control lamp

A 100 A143 A302	(255) Central fuse, relay and terminal block (345) ECAS control unit (352) Central computer 2
A407	(342) Instrumentation
B 128	(311) Height sensor, front axle
B129	(311) Height sensor, rear axle left
B130	(311) Height sensor, rear axle right

H394 Indicator light, ECAS malfunction/warning

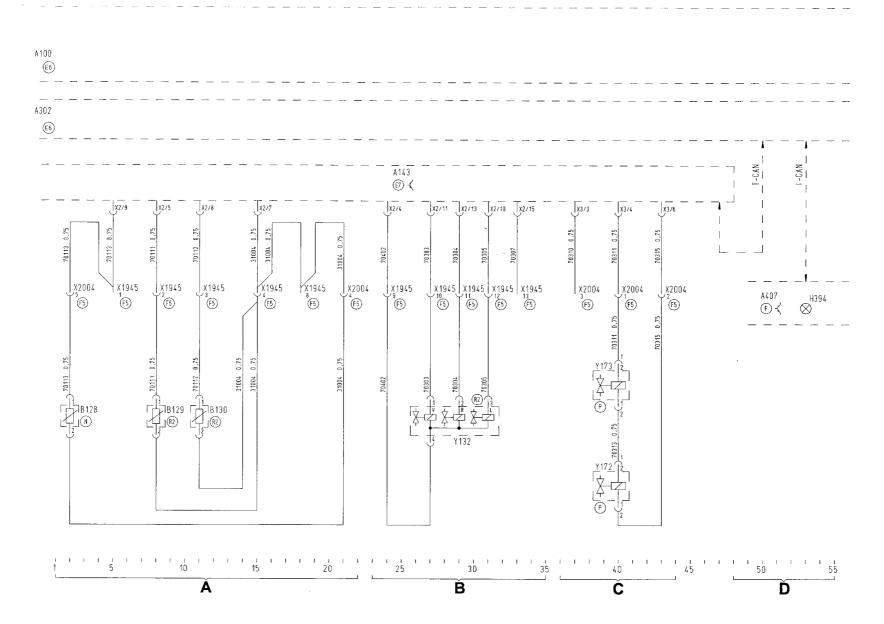
X1945 Stvd. ECAS/EFR X2004 Stvd. cab frame EFR

Y132 (168) Solenoid valve block ECAS Y172 (203) Adjustable shock absorber on rear axle right Y173 (203) Adjustable shock absorber on rear axle left

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2 Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1343 Sheet 2 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FLL

Legend

Wiring diagram no. **81.99192.1344** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Remote control

C = Diagnosis

A100 (255) Central fuse, relay and terminal block

A143 (345) ECAS control unit

A221 (349) ECAS remote control

A302 (352) Central computer 2

F164 (101) Fuse ECAS (terminal 30)

F366 (101) ECAM/ECAS fuse (terminal 15)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

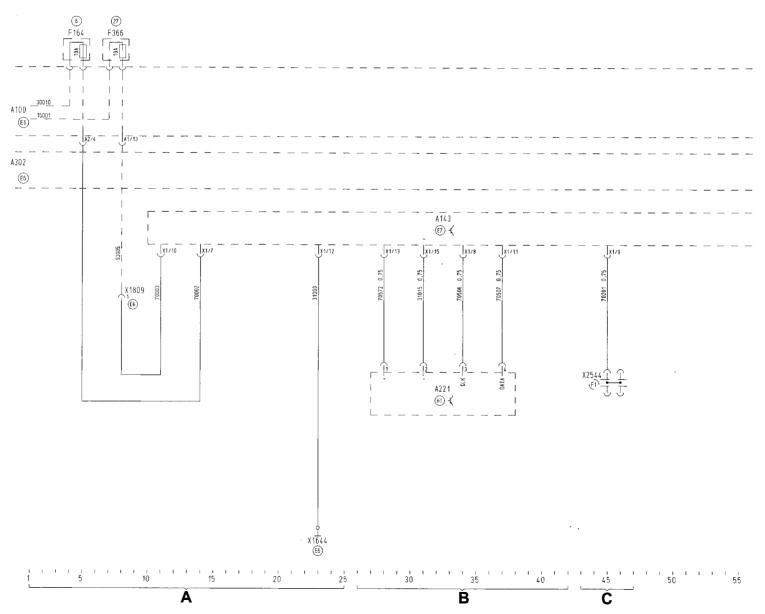
X1809 Stvd. ECAS (terminal 15)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ^{®1} Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- f Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1344 Sheet 1 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 4x2 FLL

Legend

H394

Wiring diagram no. **81.99192.1344** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

D = Control lamp

A 100 A143 A302 A407	(255) Central fuse, relay and terminal bloc (345) ECAS control unit (352) Central computer 2 (342) Instrumentation	k
B 128 B129 B130	(311) Height sensor, front axle (311) Height sensor, rear axle left (311) Height sensor, rear axle right	

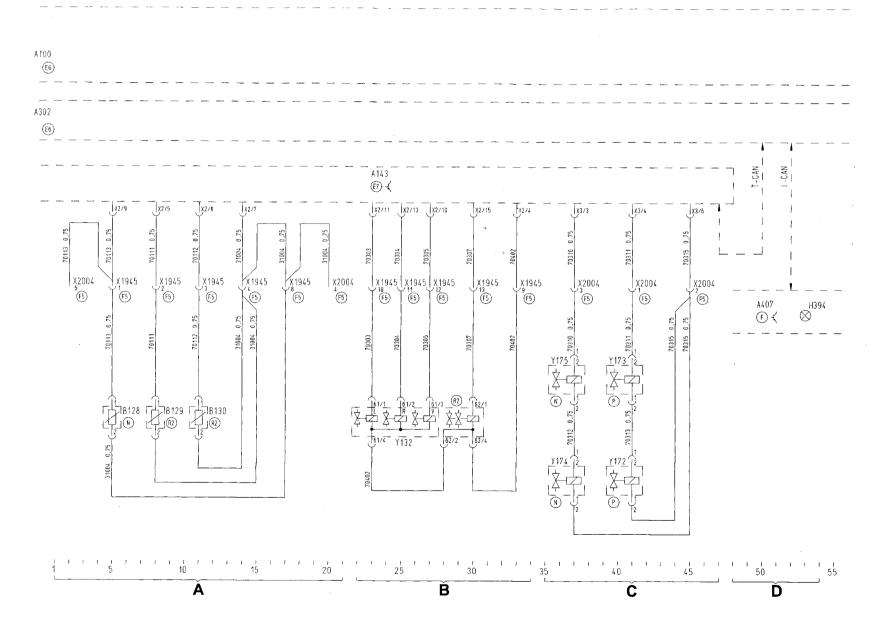
X 1945		Stvd. ECAS/EFR
X2004		Stvd. cab frame EFR
Y 132	(124)	Solenoid valve block ECAS
Y172	(203)	Adjustable shock absorber on rear axle right
Y173	(203)	Adjustable shock absorber on rear axle left
Y174	(202)	Adjustable shock absorber on front axle right
Y175	(202)	Adjustable shock absorber on front axle left

Indicator light, ECAS malfunction/warning

- A Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1344 Sheet 2 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNL

Legend

Wiring diagram no. **81.99192.1345** Sheet **1** of 2 Change status: 04.01

A = Switch/control lamp

B = Remote control

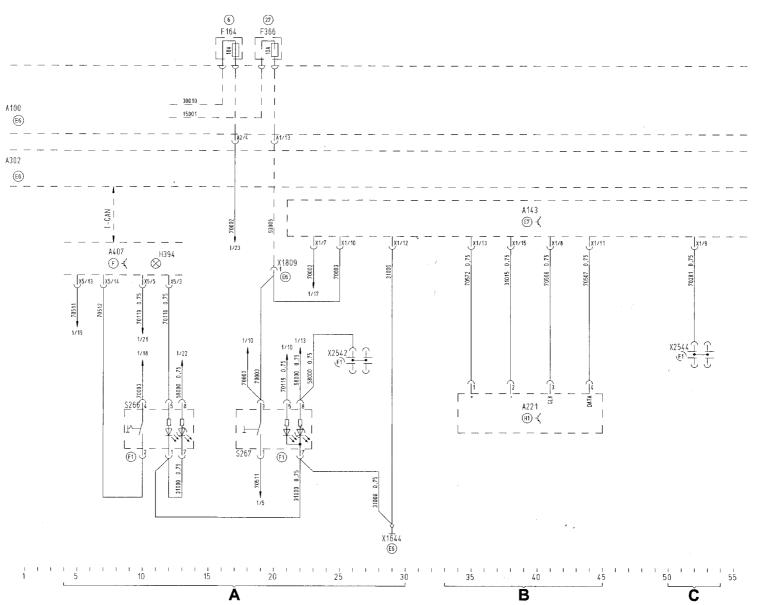
C = Diagnosis

U – D .0	.9	-
A100 A143 A221 A302 A407	(345) (349) (352)	Central fuse, relay and terminal block ECAS control unit ECAS remote control Central computer 2 Instrumentation
F 164 F366		Fuse ECAS (terminal 30) ECAM/ECAS fuse (terminal 15)
H 394		Indicator light, ECAS malfunction/warning
S 266 S267		Switch ECAS NLA/VLA raise/release Control switch ECAS traction help
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1809		Stvd. ECAS (terminal 15)

X2542 (246) Potential distributor, 21-pin line 58000 X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNL

Legend

Wiring diagram no. **81.99192.1345** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

A100 (255) Central fuse, relay and terminal block

A143 (345) ECAS control unit

A302 (352) Central computer 2

B128 (311) Height sensor, front axle

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

X2004 Stvd. cab frame EFR

Y161 (169) Solenoid valve ECAS I = HA (rear axle) II = NLA/VLA

(trailing/leading axle)

Y172 (203) Adjustable shock absorber on rear axle right

Y173 (203) Adjustable shock absorber on rear axle left

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- © Entrance left
- (E6) Central electrics area
- © Control unit racks
- ® Rear wall of cab
- (F) Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (12) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1345 Sheet 2 of 2 A100 (E6) A143 (E7) -{ | X1945 | X194 X1945 F5 X1945 F5 X1945 X2004 (F5)

A B C

ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNL (Nordland)

Legend

X1809

Wiring diagram no. 81.99192.1350 Sheet 1 of 2 Change status: 04.01

A = Supply voltage, switch

B = Remote control

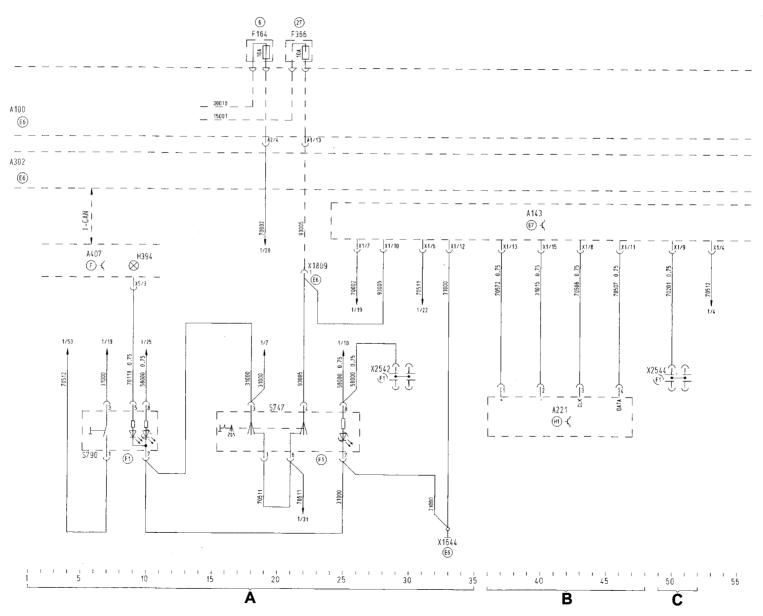
C = Diagnosis

U = D .0	.9	-
A100 A143 A221 A302 A407	(345) (350) (352)	Central fuse, relay and terminal block ECAS control unit ECAS remote control Central computer 2 Instrumentation
F 164 F366		Fuse ECAS (terminal 30) ECAM/ECAS fuse (terminal 15)
H 394		Indicator light, ECAS malfunction/warning
S 747 S790		Switch ECAS traction help Nordland Control switch ECAS lift/relieve trailing/ leading axle Nordland
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block

Stvd. ECAS (terminal 15) X2542 (246) Potential distributor, 21-pin line 58000 X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- (F) Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (II) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNL (Nordland)

Legend

X2004

Wiring diagram no. **81.99192.1350** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

A 100	(255)	Central fuse, relay and terminal block
Δ143	(345)	ECAS control unit

Stvd. cab frame EFR

(352) Central computer 2 A302

(311) Height sensor, front axle **B**128 (311) Height sensor, rear axle left B129 (311) Height sensor, rear axle right B130

Stvd. ECAS/EFR X1945

(169) Solenoid valve block ECAS I = HA II = NLA/VLA **Y**161 Y172 (203) Adjustable shock absorber on rear axle right

(203) Adjustable shock absorber on rear axle left

Y173

Marking of mounting positions

(A) Tail

(B1) Engine

Gearbox

© Front

© Bumper

© Entrance right

Entrance left

Central electrics area

Control unit racks

Rear wall of cab

Instrument panel

Central part

© Steering wheel/column

F3 Foot pedals

Front wall, inside left

Front wall, inside right

(F6) Driving seat

(F7) Passenger seat

(F8) Control panel

(G) Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

(L) Ceiling/roof

(N) Front axle

Rear axle

(R1) Front part of frame

Rear part of frame

(S1) Door left

© Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1350 Sheet 2 of 2 A100 A302 A143 €7 ≺ X1945 F5 X2004 F5 X1945 X1945 X2004 F5 | X1945 | X195 | X1945 X1945 X1945 161/4 Y161 R2 1 5 10 15 20 25 30 35 40 45 50 55

ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FVL

Legend

Wiring diagram no. **81.99192.1346** Sheet **1** of 2 Change status: 04.01

A = Switch

X1644

X1809

B = Remote control

C = Diagnosis

C - Dia	ignosis
A100 A143 A221 A302 A407	(255) Central fuse, relay and terminal block(345) ECAS control unit(349) ECAS remote control(352) Central computer 2(342) Instrumentation
F 164 F366	(101) Fuse ECAS (terminal 30) (101) ECAM/ECAS fuse (terminal 15)
H 394	Indicator light, ECAS malfunction/warning
S 266 S267	(519) Switch ECAS NLA/VLA raise/release (563) Control switch ECAS traction help

relay and terminal block Stvd. ECAS (terminal 15)

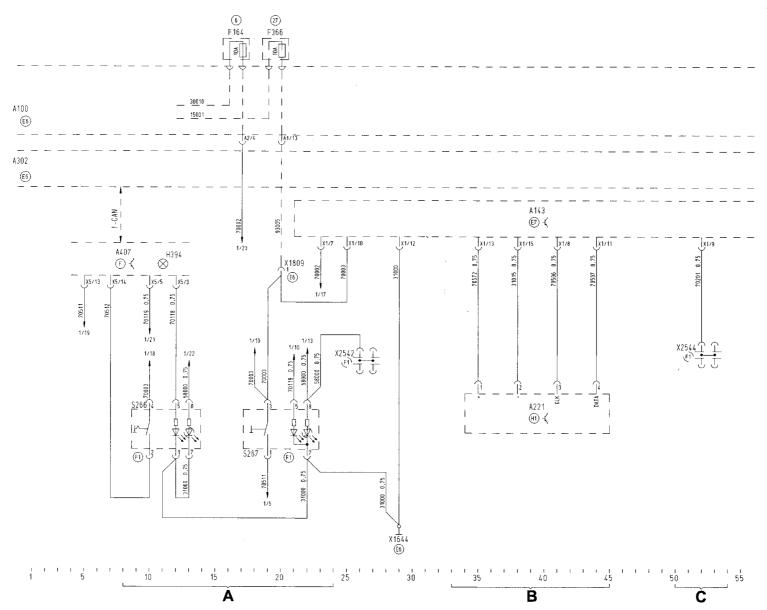
X2542 (246) Potential distributor, 21-pin line 58000 X2544 (246) Potential distributor 21-pin K-line

Earthing point, cab, adjacent to central fuse,

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1346 Sheet 1 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FVL

Legend

Wiring diagram no. **81.99192.1346** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

A 100	(255)	Central	fuse,	relay	and	terminal	block

A143 (345) ECAS control unit A302 (352) Central computer 2

B128 (311) Height sensor, front axle

B129 (311) Height sensor, rear axle left

B130 (311) Height sensor, rear axle right

X1945 Stvd. ECAS/EFR

X2004 Stvd. cab frame EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA

Y172 (203) Adjustable shock absorber on rear axle right

Y173 (203) Adjustable shock absorber on rear axle left

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1346 Sheet 2 of 2 A100 A143 x1945 (F5) X2004 (F5) | X1945 | X194 X1945 X1945

K 90

ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNLL

Legend

Wiring diagram no. **81.99192.1347** Sheet **1** of 2 Change status: 04.01

A = Switch

X1809

B = Remote control

C = Diagnosis

A100 A143 A221 A302 A407	(345) (350) (352)	Central fuse, relay and terminal block ECAS control unit ECAS remote control Central computer 2 Instrumentation
F 164 F366		Fuse ECAS (terminal 30) ECAM/ECAS fuse (terminal 15)
H 394		Indicator light, ECAS malfunction/warning
S 266 S267		Switch ECAS NLA/VLA raise/release Control switch ECAS traction help
X 1644		Earthing point, cab, adjacent to central fuse,

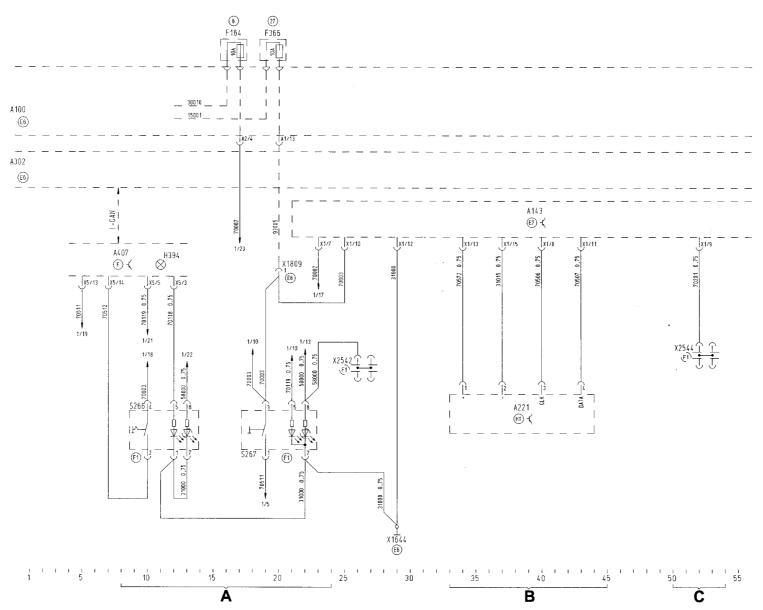
relay and terminal block Stvd. ECAS (terminal 15)

X2542 (246) Potential distributor, 21-pin line 58000 X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (B) Control panel
- Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1347 Sheet 1 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNLL

Legend

Y175

Wiring diagram no. **81.99192.1347** Sheet **2** of 2 Change status: 09.01

A = Height sensors

B = Solenoid valves

C = Adjustable shock absorbers

A100 (255) Central fuse, relay and terminal block A143 (345) ECAS control unit A302 (352) Central computer 2
B128 (311) Height sensor, front axle B129 (311) Height sensor, rear axle left B130 (311) Height sensor, rear axle right
X1945 Stvd. ECAS/EFR

X2004 Stvd. cab frame EFR

Y161 (169) Solenoid valve block ECAS I = HA II = NLA/VLA
Y162 (128) Solenoid valve block ECAS front axle
Y172 (203) Adjustable shock absorber on rear axle right
Y173 (203) Adjustable shock absorber on rear axle left
Y174 (202) Adjustable shock absorber on front axle right

(202) Adjustable shock absorber on front axle left

- (A) Tail
- (B1) Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1347 Sheet 2 of 2 A100 A302 A143 ©7-{ X1945 | X2004 | X1945 | X195 | X1945 X1945 X1945 X1945 (F5) (F5) Y161 R2 [62/2 — [62/4

ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNLL (Nordland)

Legend

Wiring diagram no. **81.99192.1351** Sheet **1** of 2 Change status: 04.01

A = Supply voltage, switch

B = Remote control

C = Diagnosis

X1809

C = Dia	C = Diagnosis			
A100 A143 A221 A302 A407	(345) (350) (352)	Central fuse, relay and terminal block ECAS control unit ECAS remote control Central computer 2 Instrumentation		
F 164 F366		Fuse ECAS (terminal 30) ECAM/ECAS fuse (terminal 15)		
H 394		Indicator light, ECAS malfunction/warning		
S 747 S790		Switch ECAS traction help Nordland Control switch ECAS lift/relieve trailing/ leading axle Nordland		
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block		

Stvd. ECAS (terminal 15)

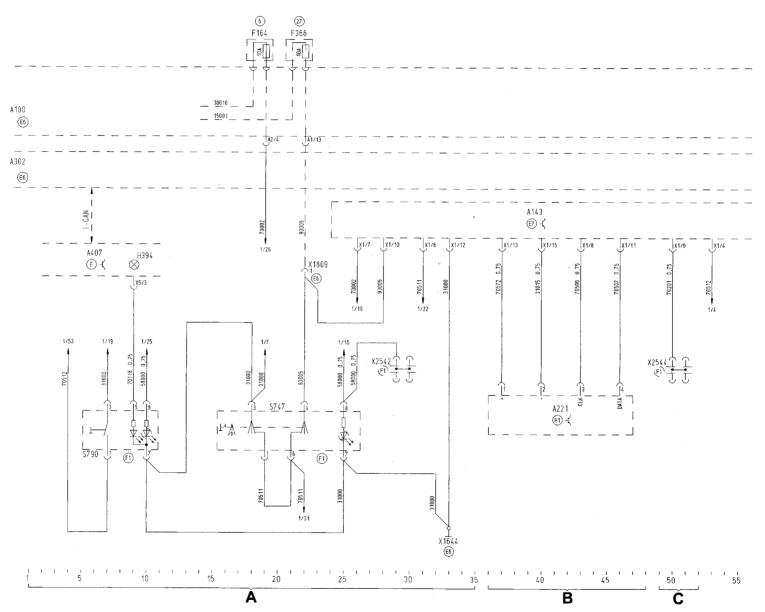
X2542 (246) Potential distributor, 21-pin line 58000 X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1351 Sheet 1 of 2



ECAS electronically controlled air suspension/ EFR electronic shock absorber control 6x2 FNLL (Nordland)

Legend

Wiring diagram no. **81.99192.1351** Sheet **2** of 2 Change status: 09.01

A = Height sensors B = Solenoid valves

C = Adjustable shock absorbers

A 100	(255) Central fuse, relay and terminal block
A143	(345) ECAS control unit
A302	(352) Central computer 2
B 128	(311) Height sensor, front axle

B 128	(311) Height sensor, front axle
B129	(311) Height sensor, rear axle left
B130	(311) Height sensor, rear axle right

X 1945	Stvd. ECAS/EFR
X2004	Stvd. cab frame EFR

Y 161	(169)	Solenoid valve block ECAS I = HA	II = NLA/VLA
--------------	-------	----------------------------------	--------------

Y162 (128) Solenoid valve block ECAS front axle

Y172 (203) Adjustable shock absorber on rear axle right

Y173 (203) Adjustable shock absorber on rear axle left

Y174 (202) Adjustable shock absorber on front axle right

Y175 (202) Adjustable shock absorber on front axle left

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

(E8) Rear wall of cab

F Instrument panel

F1 Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

Font wall, inside right

6 Driving seat

Passenger seat

(F8) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

B-pillar on passenger's side

4-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

(R1) Front part of frame

Rear part of frame

(S1) Door left

© Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1351 Sheet 2 of 2 A100 (E6) A302 A143 X1945 X2004 | X1945 | X194 X1945 X1945 X1945 X1945 61/4 Y161 R2 <u>| | 62/2</u> - | 62/4

EDC electronically controlled diesel injection EDC MS6.1 (EURO 2)

Legend

Wiring diagram no. **81.99192.2985** Sheet **1** of 3 Change status: 03.01

A = Starting motor control (see series wiring diagram)

B = Actuator unit

C = Temperature sensor, fuel

D = Charge air pressure sensor

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A435 (338) EDC control unit

B125 (314) Charge air pressure sensor

B197 (265) Temperature sensor, fuel

M100 (144) Starting motor

X1906 Threaded bolt M6 (MP box)

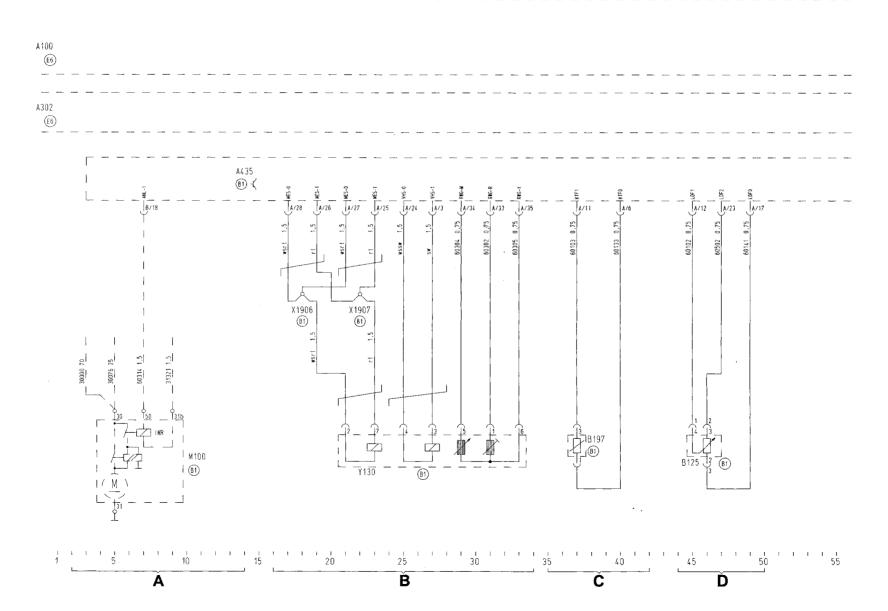
X1907 Threaded bolt M6 (MP box)

Y130 (196) Actuator unit, injector pump

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- 6 Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2985 Sheet 1 of 3



EDC electronically controlled diesel injection EDC MS6.1 (EURO 2)

Legend

Wiring diagram no. **81.99192.2985** Sheet **2** of 3 Change status: 03.01

A = Temperature sensor, coolant

B = Engine speed sensor

C = Auxiliary engine speed sensor

D = Needle movement sensor

E = Oil pressure sensor

F = Fuel pressure sensor

G = Earthing point, engine

A 100	(255)	Central fuse, relay and terminal block
4000	(OFO)	Cambral as many tan O

A302 (352) Central computer 2 A435 (338) EDC control unit

B 104	(340)	Oil	pressure	sensor

B124 (265) Temperature sensor, coolant

B198 (315) Needle movement sensor

B199 (316) Engine speed sensor

B200 (317) Auxiliary engine speed sensor

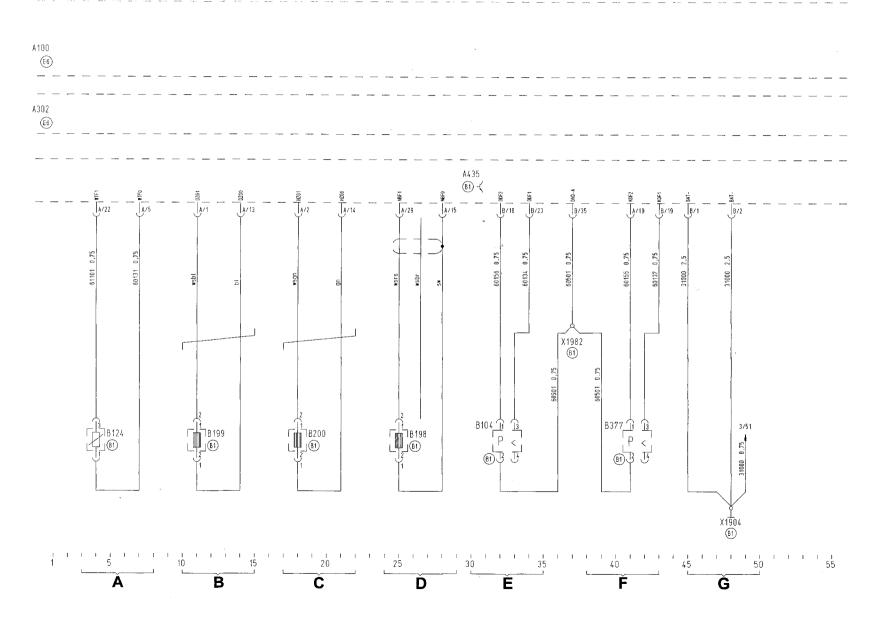
B377 (340) Fuel pressure sensor

X 1904	Threaded bolt M6 (MP box)
X1982	Threaded bolt M5 (MP box)

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2985** Sheet **2** of 3



EDC electronically controlled diesel injection EDC MS6.1 (EURO 2)

Legend

X1559

X1983

X1987

Wiring diagram no. **81.99192.2985** Sheet **3** of 3 Change status: 03.01

A = Diagnosis

B = CAN databus

C = Power supply

A 100 A302 A403 A407 A435	(352) (339) (342)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation EDC control unit
F 163 F 236 F354 F355	(111) (132)	Generator engine control (terminal 30) Generator engine control (terminal 15) Main fuse (terminal 30-1) Main fuse (terminal 30-2)
H 109 H296 H374		Indicator light, oil pressure Indicator light, EDC (malfunction) Indicator light, air filter dirty
K 170	(297)	Relay, power supply engine control (terminal 30)

Stvd. engine/EDC/transmission IV

Threaded bolt M6 (MP box)

Threaded bolt M6 (MP box)

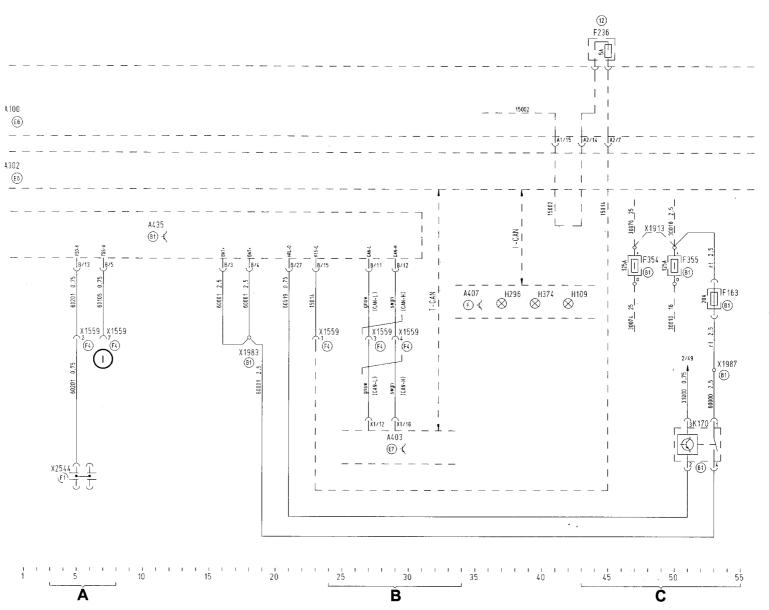
X1913 (199) Bridge, line 30000 (MP box)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Reserve for engine speed signal

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2985 Sheet 3 of 3



EDC electronically controlled diesel injection EDC MS6.1 with exhaust gas recirculation EGR (EURO 3)

Legend

Y280

Wiring diagram no. **81.99192.2986** Sheet **1** of 3 Change status: 03.01

A = Actuator unit

B = Temperature sensor, fuel

C = Charge air pressure sensor

D = Temperature sensor, charge air

E = Exhaust gas recirculation cylinder

A302	(352)	Central fuse, relay and terminal block Central computer 2 EDC control unit
		Temperature sensor, charge air

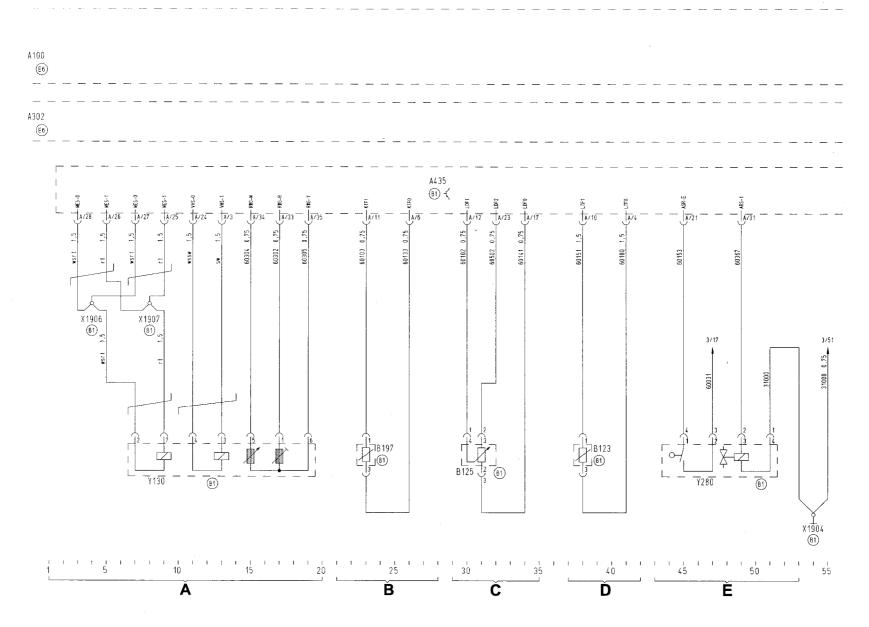
B197		Temperature sensor, fuel
X 1904 X1906 X1907		Threaded bolt M6 (MP box) Threaded bolt M6 (MP box) Threaded bolt M6 (MP box)
Y 130	(196)	Actuator unit, injector pump

(205) AGR cylinder

- (A) Tail
- ®1 Engine
- ®2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2986 Sheet 1 of 3



EDC electronically controlled diesel injection EDC MS6.1 with exhaust gas recirculation (EURO 3)

Legend

Wiring diagram no. **81.99192.2986** Sheet **2** of 3 Change status: 03.01

A = Temperature sensor, coolant

B = Engine speed sensor

C = Auxiliary engine speed sensor

D = Needle movement sensor

E = Oil pressure sensor

F = Fuel pressure sensor

G = Earthing point, engine

H = Starting motor control (see series wiring diagram)

A 4 00	(055)	O t 1 f	والمتعالما المتعالية والمتعالم والمتعالم والمتعالم
AIUU	(255)	Central luse	, relay and terminal block

A302 (352) Central computer 2

A435 (338) EDC control unit

B104 (340) Oil pressure sensor

B124 (265) Temperature sensor, coolant

B198 (315) Needle movement sensor

B199 (316) Engine speed sensor

B200 (317) Auxiliary engine speed sensor

B377 (340) Fuel pressure sensor

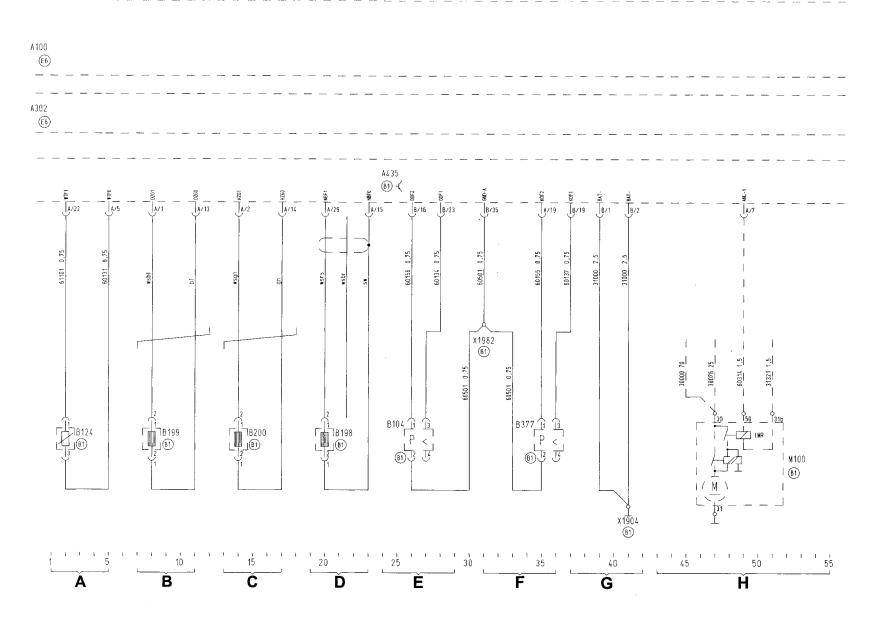
M100 Starting motor

X1904 Threaded bolt M6 (MP box) X1982 Threaded bolt M5 (MP box)

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- (F3) Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- 3 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2986 Sheet 2 of 3



EDC electronically controlled diesel injection EDC MS6.1 with exhaust gas recirculation (EURO 3)

Legend

X1983 X1987

Wiring diagram no. **81.99192.2986** Sheet **3** of 3 Change status: 03.01

A = Diagnosis

B = CAN databus

C = Power supply

A 100 A302 A403 A407 A435	(352) (339) (342)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation EDC control unit
F163 F 236 F354 F355	(111) (132)	Generator engine control (terminal 30) Generator engine control (terminal 15) Main fuse (terminal 30-1) Main fuse (terminal 30-2)
H 109 H296 H374		Indicator light, oil pressure Indicator light, EDC (malfunction) Indicator light, air filter dirty
K 170	(297)	Relay, power supply engine control (terminal 30)
X 1559		Stvd. engine/EDC/transmission IV

Threaded bolt M6 (MP box)

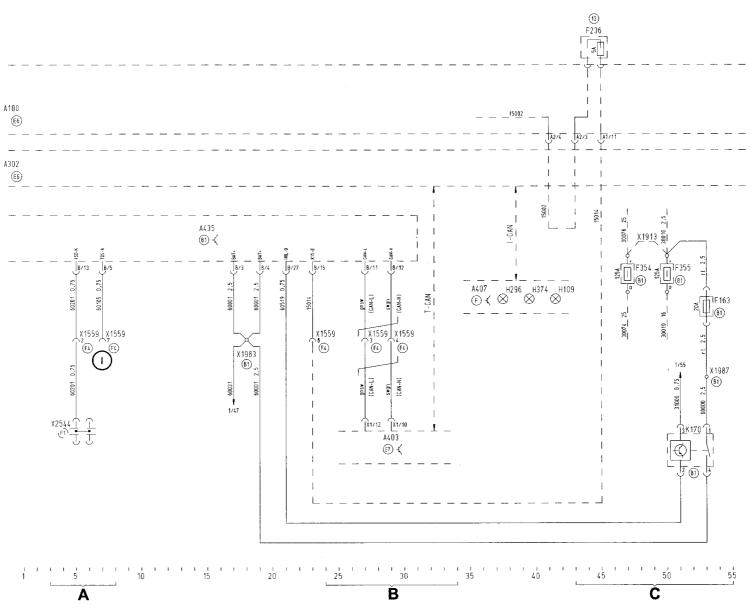
Threaded bolt M6 (MP box)

X1913 (199) Bridge, line 30000 (MP box)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- 🗐 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- f Instrument panel
- F1 Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Reserve for engine speed signal

- (F6) Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (§1) Door left
- © Door right



ADDITIONAL WIRING DIAGRAMS

EDC7 electronically controlled diesel injection EDC7 Common Rail D0836LF

Legend

Wiring diagram no. **81.99192.2692** Sheet **1** of 4 Change status: 10.00

A = Rail pressure sensor

B = Proportional valve, fuel

C = Exhaust gas recirculation cylinder

D = Cylinders 1 + 2

E = Cylinders 3 + 4

F = Cylinders 5 + 6

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A435 (526) EDC control unit

B487 (342) Rail pressure pickup

X2265 Stvd. injector cylinders 1 + 2

X2266 Stvd. injector cylinders 3 + 4

X2267 Stvd. injector cylinders 5 + 6

Y280 (205) AGR actuator

Y332 (215) Proportional valve, fuel

Y341 (216) Injector, 1st cylinder

Y342 (216) Injector, 2nd cylinder

Y343 (216) Injector, 3rd cylinder

Y344 (216) Injector, 4th cylinder

Y345 (216) Injector, 5th cylinder

Y346 (216) Injector, 6th cylinder

Marking of mounting positions

(A) Tail

(B1) Engine

(B2) Gearbox

© Front

(c) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

Rear wall of cab

F Instrument panel

© Central part

Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

F7 Passenger seat

F8 Control panel

G Battery box

(H) B-pillar on driver's side

(H2) A-pillar on driver's side

(J) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

(S1) Door left

§2 Door right



Wiring diagram no. 81.99192.2692 Sheet 1 of 4 A100 A302 A435 B1) -{ | X2265 | X2265 | B1 | B1 X2265 X2265 B1 2 B1 X2266 X2266 X2266 X2266 81 2 81 X2267 X2267 B1 B1 X2267 X2267

EDC7 electronically controlled diesel injection EDC7 Common Rail D0836LF

Legend

Wiring diagram no. **81.99192.2692** Sheet **2** of 4 Change status: 10.00

A = Water temperature sensor

B = Crankshaft

C = Camshaft

D = Fuel pressure sensor

E = Air temperature sensor

F = Charge air pressure sensor

G = Oil pressure sensor

A 100	(255)	Central	fuse,	relay	and	terminal	block
--------------	-------	---------	-------	-------	-----	----------	-------

A302 (352) Central computer 2

A435 (526) EDC control unit

B 104	(340)	Oil	pressure	sensor
U 107	TOTO:	, Оп	picaauic	3011301

B123 (341) Temperature sensor, charge air

B124 (265) Temperature sensor, coolant

B125 (350) Charge air pressure sensor

B377 Fuel pressure sensor

B488 (348) Engine speed incremental encoder

B489 (349) Engine speed segment encoder

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (c) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- © Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2692 Sheet 2 of 4 A100 A302 <u>(E6)</u> A435 B1) -{

EDC7 electronically controlled diesel injection EDC7 Common Rail D0836LF

Legend

Wiring diagram no. 81.99192.2692 Sheet 3 of 4 Change status: 10.00

A = CAN databus

B = Diagnosis

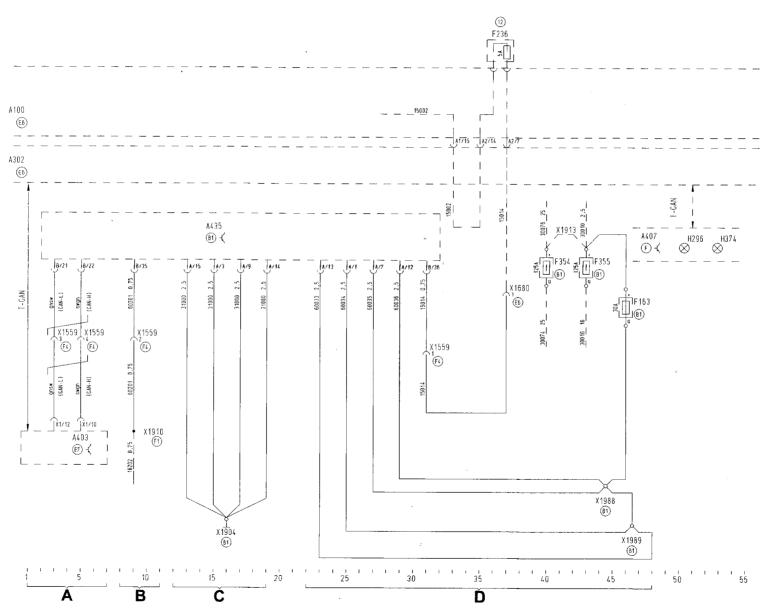
C = Earthing point, box

D = Power supply

A 100 A302 A403 A407 A435	(352) (339) (342)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation EDC control unit
F 163 F236 F354 F355	(111) (132)	Generator engine control (terminal 30) Generator engine control (terminal 15) Main fuse (terminal 30-1) Main fuse (terminal 30-2)
H 296 H374		Indicator light, EDC (malfunction) Indicator light, air filter dirty
X1559 X1680 X1904 X1910 X1913 X1988 X1989	(199)	Stvd. engine/EDC/transmission IV Stvd. power supply, EDC, terminal 15 Threaded bolt M6 (MP box) Crimped connector K-KWP2 (SA) Bridge, line 30000 (MP box) Threaded bolt M5 (MP box) Threaded bolt M5 (MP box)

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- (f) Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



EDC7 electronically controlled diesel injection EDC7 Common Rail D0836LF

Legend

Wiring diagram no. **81.99192.2692** Sheet **4** of 4 Change status: 10.00

A = Starting motor control (see series wiring diagram)

B = Proportional valve, turbocharger

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A435 (526) EDC control unit

M100 (167) Starter motor

Y340 Proportional valve, 2-stage charging

- (A) Tail
- ®1) Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2692 Sheet 4 of 4

(B)





5. 10 15 20 25 30 35 40 45 50 55

EVB electronically controlled engine brake, controlled

Legend

Wiring diagram no. **81.99192.2832** Sheet **1** of 1 Change status: 06.00

A = EVB (exhaust valve brake), controlled

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A403 (339) Vehicle management computer

X1557 Stvd. frame left

X1904 Threaded bolt M6 (MP box)

X2408 Stvd. EVB module

Y355 (222) EVB module

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- © Door left
- © Door right

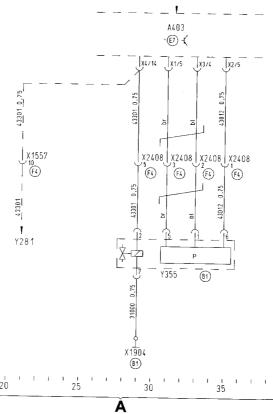
ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2832 Sheet 1 of 1

A100 (E6)

A302

(£6)



ADDITIONAL WIRING DIAGRAMS

K 90 4.06 - 1

Driving dynamics control

Legend

X2204

X2207

Wiring diagram no. 81.99192.2843 Sheet 1 of 1 Change status: 07.00

A = EBS control unit 2.3 B = Steering angle sensor C = Turning rate sensor

(255) Central fuse, relay and terminal block **A**100 (352) Central computer 2 A302 (399) EBS control unit A402 (568) Control unit, driving dynamics control A575 **B**475 ESP steering angle sensor ESP steering rate sensor B476

Stvd. cab steering rate sensor

Stvd. steering column, ESP steering angle sensor

(B1) Engine

(B2) Gearbox

(A) Tail

- © Front (c1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area

- © Control unit racks
- ® Rear wall of cab
- (F) Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery

- (F6) Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

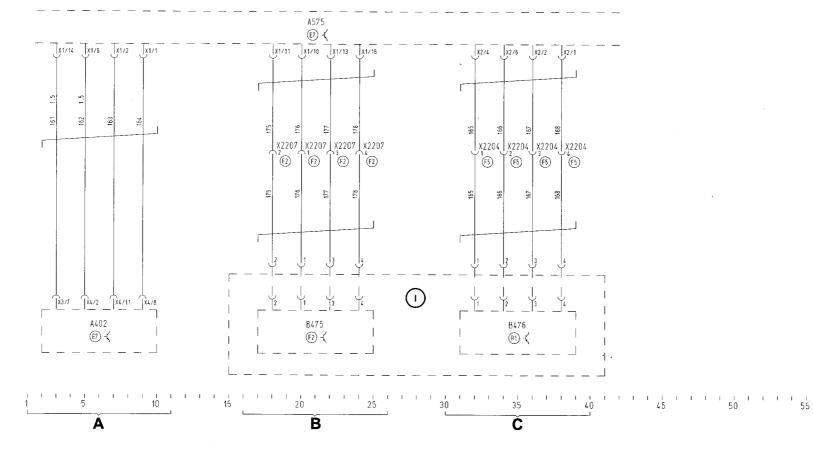
ADDITIONAL W
Wiring diagram no. 81.99192.2843 Sheet 1 of 1

A100

(E)

A302

(E)



Cab tilt device (electrical)

Legend

Wiring diagram no. **81.99192.1370** Sheet **1** of 1 Change status: 05.01

A = Supply voltage

B = Release switch

C = Tilt switches

D = Tilt pump

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F190 (130) Fuse, cab tilt device

K415 (280) Relay, cab tilt device

M137 (148) Pump, cab tilt device

\$374 (548) Switch, release cab tilt device

S375 (292) Control switch, actuation cab tilt device

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1842 Stvd. cab tilt device

X2541 (246) Potential distributor, 21-pin line 31000

X2542 (246) Potential distributor, 21-pin line 58000

Marking of mounting positions

(A) Tail

®1) Engine

(B2) Gearbox

© Front

©1) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

(E8) Rear wall of cab

(F) Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

Passenger seat

(FB) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

Ceiling/roof

(N) Front axle

P Rear axle

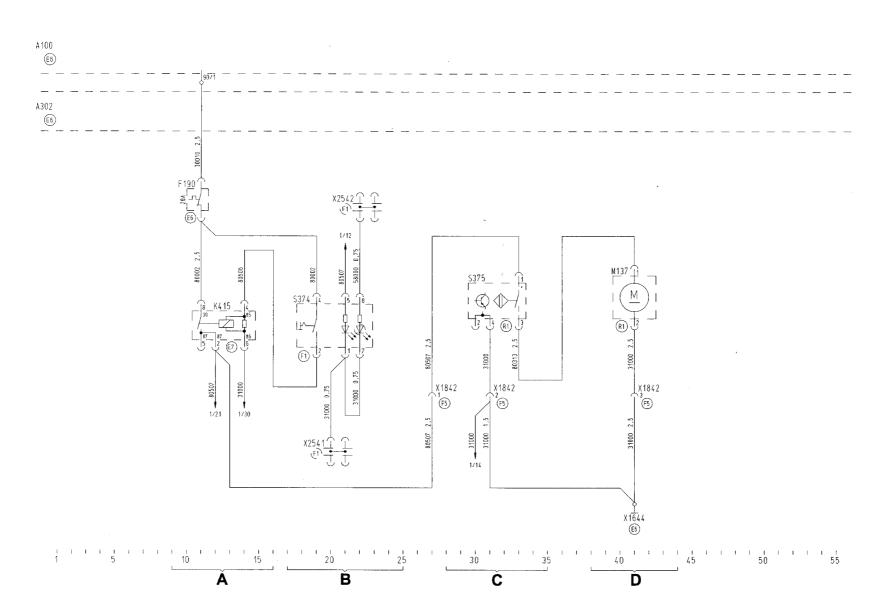
R1) Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.1370 Sheet 1 of 1



Windscreen heating

Legend

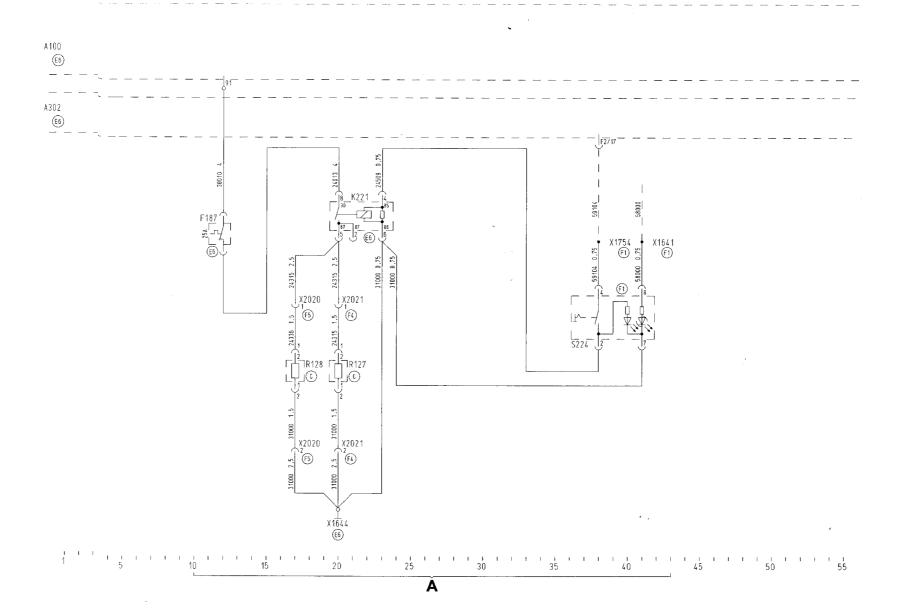
Wiring diagram no. **81.99192.2571** Sheet **1** of 1 Change status: 03.01

A = Windscreen heating

A 100 A302		Central fuse, relay and terminal block Central computer 2
F 187	(131)	Fuse, windscreen heating
K 221	(280)	Relay, windscreen heating
R 127 R128		Windscreen heating, left Windscreen heating, right
S 224	(561)	Switch, screen heating
X 1641		Soldered connector, line 58000
X1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1754		Crimped connector, line 59104
X2020		Stvd. windscreen heating, right
X2021		Stvd. windscreen heating, left

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right



Windscreen heating (wide cab)

Legend

Wiring diagram no. **81.99192.1373** Sheet **1** of 1 Change status: 04.01

A = Windscreen heating

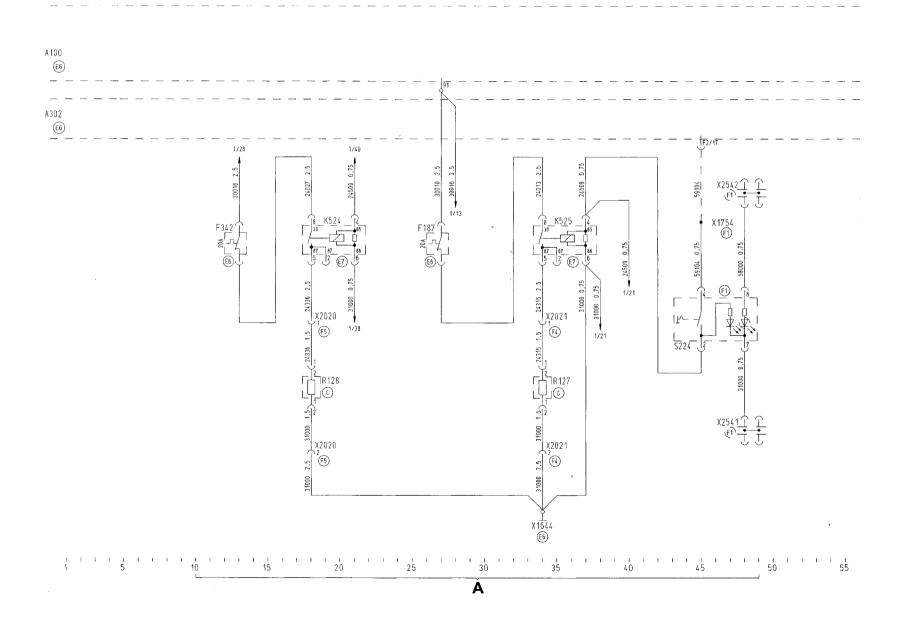
A 100 A302	. ,	Central fuse, relay and terminal block Central computer 2
F 187 F342		Fuse, windscreen heating Fuse, front nose screen heating
K 524 K525		Relay, front nose screen heating Relay, front nose screen heating
R 127 R128		Windscreen heating, left Windscreen heating, right
S 224	(561)	Switch, screen heating
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1754		Soldered connector, line 59104
X2020		Stvd. windscreen heating, right
X2021		Stvd. windscreen heating, left
X2541		
X2542	(246)	Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1373 Sheet 1 of 1



ADDITIONAL WIRING DIAGRAMS

K 90 4.07 - 1

AS-TRONIC transmission (12-GEAR)

Legend

X1904

X1948

Wiring diagram no. **81.99192.2993** Sheet **1** of 2 Change status: 04.01

A = Supply voltage

B = Diagnosis

C = Gear display, indicator light

A 100 A302 A330 A407	(352) (442)	Central fuse, relay and terminal block Central computer 2 Control unit, AS-TRONIC (at gearbox) Instrumentation
F 154 F196		Fuse, transmission (terminal 15) Fuse, transmission (terminal 30)
H 179		Indicator light, transmission, monitoring of state
P 122		Gear display
X 1553		Stvd. engine/EDC/transmission III

Threaded bolt M6 (MP box)

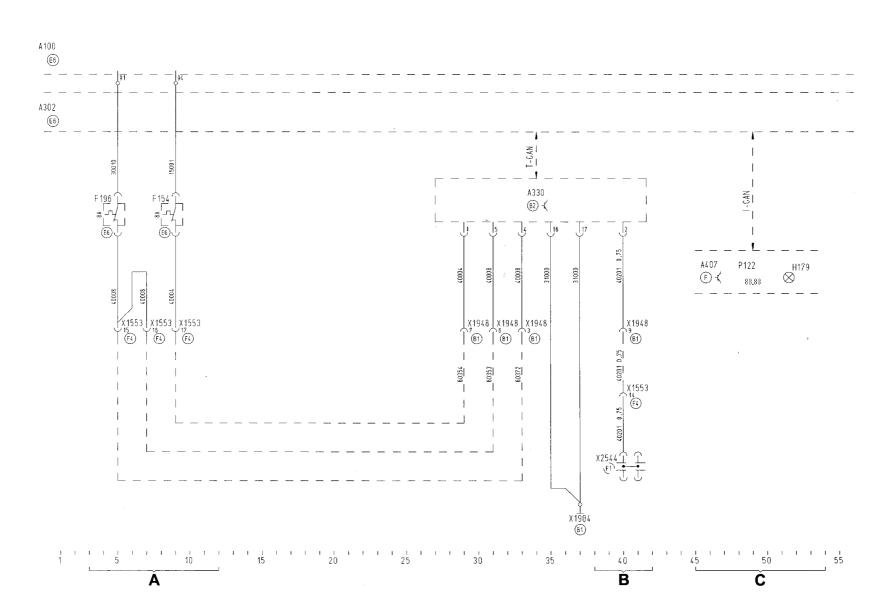
X2544 (246) Potential distributor 21-pin K-line

Stvd. engine/transmission (MP box)

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2993** Sheet **1** of 2



AS-TRONIC transmission (12-GEAR)

Legend

Wiring diagram no. **81.99192.2993** Sheet **2** of 2 Change status: 04.01

A = Gear selection, cruise control

B = Driving range selection

C = Actuation of reversing light

A100 (255) Central fuse, relay and terminal block
A302 (352) Central computer 2
A403 (339) Vehicle management computer

A429 (401) Steering column switch, cruise control/transmission

A434 (402) Driving range switch, transmission

F314 (101) Fuse, reversing light

H378 Indicator light FGR/FGB (LED)

K250 (280) Relay, reversing light

X1544 Stvd. frame III
 X1627 Stvd. reversing beam
 X1644 Earthing point, cab, adjacent to central fuse, relay and terminal block
 X1693 Crimped connector, line 60028

X1834 Crimped connector, line 71300 X1968 Stvd. cruise control switch

X2002 Stvd. B-pillar preselector switch

X2542 (246) Potential distributor, 21-pin line 58000

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

① Bumper

© Entrance right

© Entrance left

E6 Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

Reversing light

6 Driving seat

Passenger seat

(F8) Control panel

G Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

J1 B-pillar on passenger's side

(J2) A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

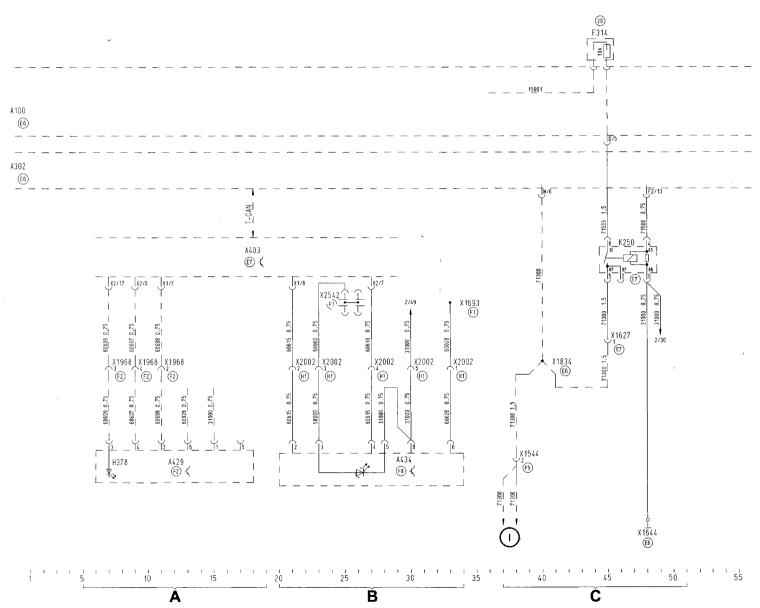
Rear part of frame

(S1) Door left

© Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. **81.99192.2993** Sheet **2** of 2



AS-TRONIC transmission (16-GEAR)

Legend

P122

Wiring diagram no. **81.99192.2992** Sheet 1 of 2 Change status: 04.01

A = Supply voltage

B = Diagnosis

C = Gear display, indicator light

A 100 A302 A330 A407	(255) Central fuse, relay and terminal block(352) Central computer 2(442) Control unit, AS-TRONIC (at gearbox)(342) Instrumentation
F 154 F196	(118) Fuse, transmission (terminal 15) (118) Fuse, transmission (terminal 30)
H 179	Indicator light, transmission, monitoring of state

X1553 Stvd. engine/EDC/transmission III X1904 Threaded bolt M6 (MP box) X1948 Stvd. engine/transmission (MP box) X2544 (246) Potential distributor 21-pin K-line

Gear display

Marking of mounting positions

A Tail

B1 Engine

(B2) Gearbox

© Front

©1) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

Passenger seat

® Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

(R1) Front part of frame

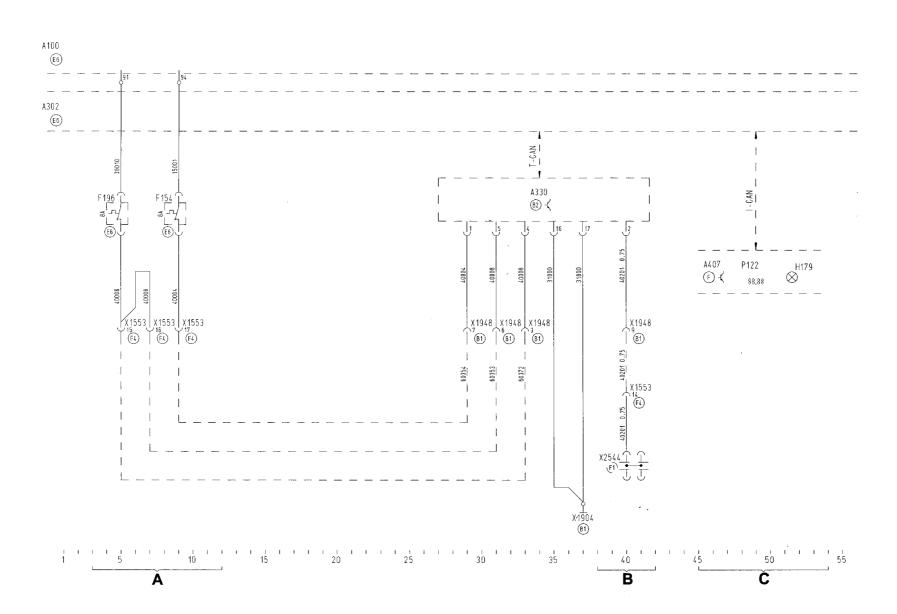
Rear part of frame

(S1) Door left

© Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. **81.99192.2992** Sheet **1** of 2



AS-TRONIC transmission (16-GEAR)

Legend

Wiring diagram no. **81.99192.2992** Sheet **2** of 2 Change status: 04.01

A = Gear selection, cruise control

B = Driving range selection

C = Actuation of reversing light

A100 A302 A403 A429 A434	(352) (339) (401)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Steering column switch, cruise control/transmission Driving range switch, transmission
F 314	(101)	Fuse, reversing light
H 378		Indicator light FGR/FGB (LED)
K 250	(280)	Relay, reversing light

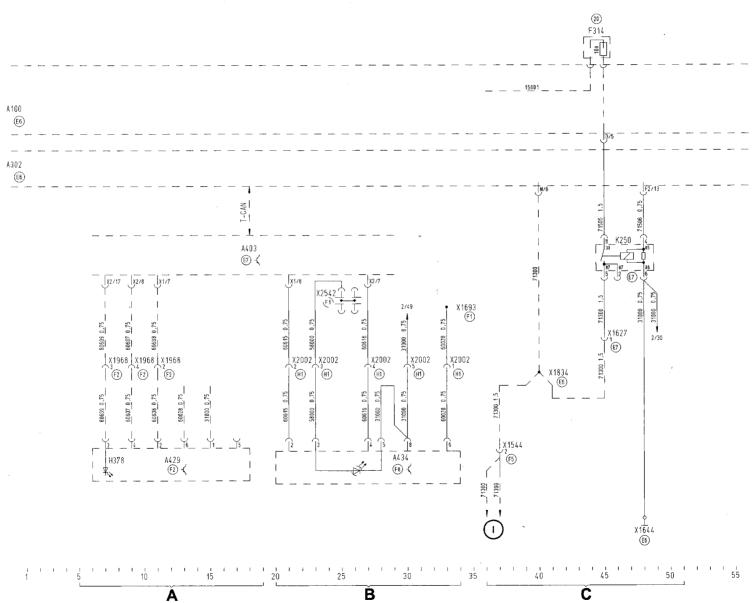
K 250	(280)	Relay, reversing light
X 1544		Stvd. frame III
X1627		Stvd. reversing beam
X1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1693		Crimped connector, line 60028
X1834		Crimped connector, line 71300
X1968		Stvd. cruise control switch
X2002		Stvd. B-pillar preselector switch
X2542	(246)	Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- (I) Reversing light

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2992 Sheet 2 of 2



EATON RTSO transmission (LL)

Legend

Wiring diagram no. **81.99192.2601** Sheet **1** of 2 Change status: 06.00

A = Pre-shift group, range shift group

A100 A302 A403 A407	(352) (339)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation
H 195 H377		Indicator light, pre-shift group Indicator light, range shift group
S 477	(474)	Switch, gearshift lever
X1553 X1562 X1604 X1832 X1948 X1972		Stvd. engine/EDC/transmission III Stvd. gearbox Stvd. switch in gearshift knob Crimped connector, line 60028 Stvd. engine/transmission (MP box) Stvd. pedals, external
Y 308 Y312 Y313 Y337	(193) (193)	Clutch servo Solenoid valve, range group Solenoid valve, splitter group Solenoid valve, lane guard

- A Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2 Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤ Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.2601 Sheet 1 of 2 A100 A302 (E6) I-CAN A403 E7 -< A407 ⑤ - 〈 H195 H377 ⊗__ ⊗__ X1/13 X2/12 X1562 X1832 F1 X1972 X1604 X1604 X1604 X1604 X1553 15 20 25 30 35 40 45 50 55

EATON RTSO transmission (LL)

Legend

Wiring diagram no. **81.99192.2601** Sheet **2** of 2 Change status: 04.00

A = Clutch displacement sensor

B = Gearbox input speed

C = Gearbox neutral

D = Switch, reverse gear

E = Clutch fluid level probe

A302 (352) Central computer 2

A403 (339) Vehicle management computer

B362 (264) Clutch displacement sensor

B368 (292) Induction-type pulse generator, gearbox input speed

B434 (272) Sensor for clutch fluid

F314 (101) Fuse, reversing light

S104 (478) Switch, reverse gear

S172 (646) Switch, neutral position

X 100	Ear	thing	point,	engine

X1553 Stvd. engine/EDC/transmission III

X1562 Stvd. gearbox

X1627 Stvd. reversing beam

X1829 Crimped connector, line 31000 X1948 Stvd. engine/transmission (MP box)

X1949 Stvd. engine/transmission (MP box)

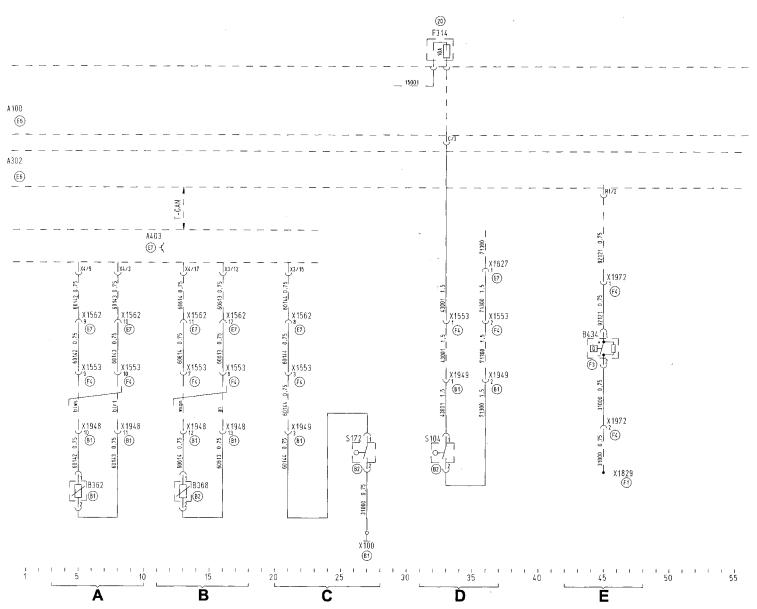
X1972 Stvd. pedals, external

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- Control unit racks
- (E8) Rear wall of cab
- f instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2601 Sheet 2 of 2



EATON RTSO transmission (RL)

Legend

Wiring diagram no. **81.99192.2417** Sheet **1** of 2 Change status: 06.00

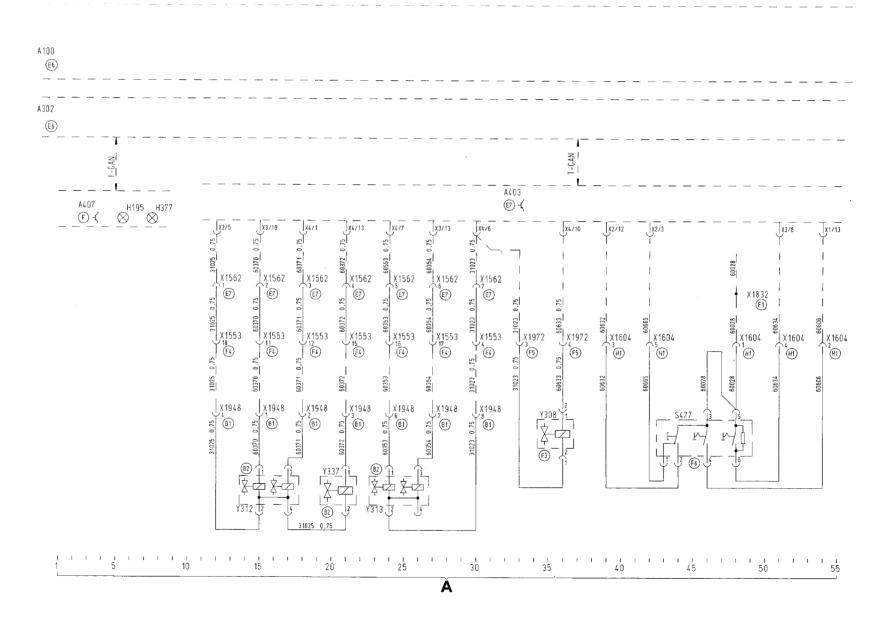
A = Pre-shift group, range shift group

A100 A302 A403 A407	(352) (339)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation
H 195 H377		Indicator light pre-shift group Indicator light, lower range active
S 477	(474)	Switch, gearshift lever
X1553 X1562 X1604 X1832 X1948 X1972		Stvd. engine/EDC/transmission III Stvd. gearbox Stvd. switch in gearshift knob Crimped connector, line 60028 Stvd. engine/transmission (MP box) Stvd. pedals, external
Y 308 Y312 Y313 Y337	(193) (193)	Clutch servo Solenoid valve, range group Solenoid valve, splitter group Solenoid valve, lane guard

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2417 Sheet 1 of 2



EATON RTSO transmission (RL)

Legend

X100

X1553 X1562

X1627

X1829

X1948

X1949

X1972

Wiring diagram no. **81.99192.2417** Sheet **2** of 2 Change status: 04.00

A = Clutch displacement sensor

B = Gearbox input speed

C = Gearbox neutral

D = Switch, reverse gear

E = Clutch fluid level probe

	·
A 100 A302 A403	(255) Central fuse, relay and terminal block(352) Central computer 2Vehicle management computer
B 362 B368 B434	(264) Clutch displacement sensor(292) Induction-type pulse generator, gearbox input speed(272) Sensor for clutch fluid
F 314	(101) Fuse, reversing light
S 104 S172	(478) Switch, reverse gear (646) Switch, neutral position

Earthing point, engine

Stvd. pedals, external

Stvd. gearbox Stvd. reversing beam

Stvd. engine/EDC/transmission III

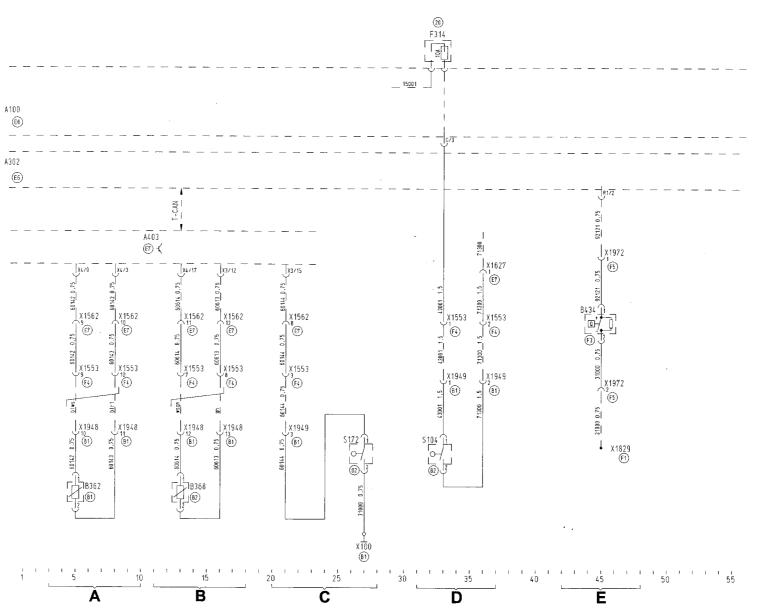
Crimped connector, line 31000

Stvd. engine/transmission (MP box)

Stvd. engine/transmission (MP box)

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



ZF transmission 16S151/16S181 (LL)

Legend

Y308

Wiring diagram no. **81.99192.2579** Sheet **1** of 2 Change status: 07.01

A = Pre-shift group, range shift group

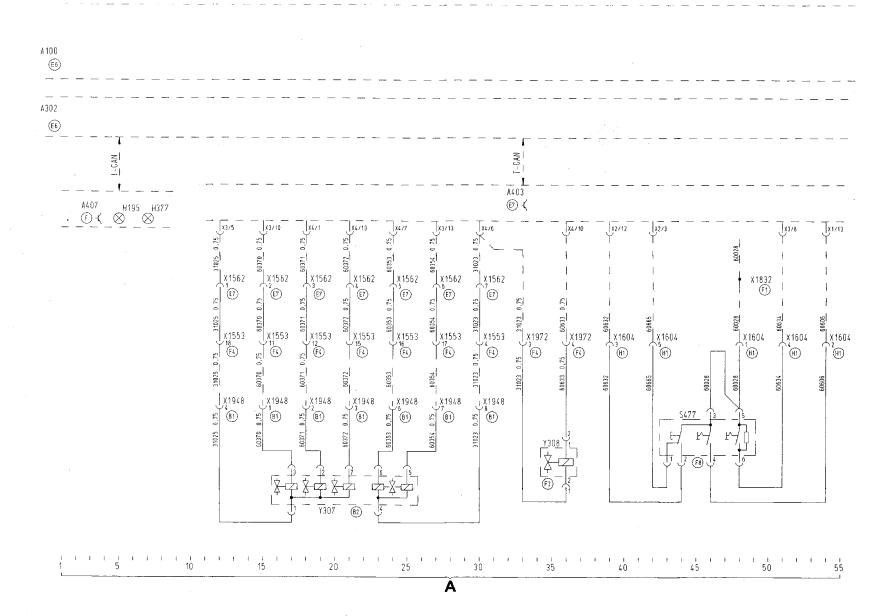
(192) Clutch servo

A 100 A302 A403 A407	(352) (339)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation
H 195 H377		Indicator light, pre-shift group Indicator light, range shift group
S 477	(474)	Switch, gearshift lever
X1553 X1562 X1604 X1832 X1948 X1972		Stvd. engine/EDC/transmission III Stvd. gearbox Stvd. switch in gearshift knob Crimped connector, line 60028 Stvd. engine/transmission (MP box) Stvd. foot pedals, exterior
Y 307	(191)	Solenoid valve, splitter and range grou

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- (F) Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. 81.99192.2579 Sheet 1 of 2



ZF transmission 16S151/16S181 (LL)

Legend

Wiring diagram no. **81.99192.2579** Sheet **2** of 2 Change status: 07.01

A = Clutch displacement sensor

B = Gearbox input speed

C = Gearbox neutral

D = Switch, reverse gear

E = Clutch fluid level probe

A100	(255)	Central fuse.	relay and	terminal block
7 100	(200)	Contian race,	Tolay alla	torrinina brook

A302 (352) Central computer 2

A403 (339) Vehicle management computer

B362 (264) Clutch displacement sensor

B368 (292) Induction-type pulse generator, gearbox input speed

B434 (272) Sensor for clutch fluid

F314 (101) Fuse, reversing light

\$104 (478) Switch, reverse gear

S172 (478) Switch, neutral position

X1553 Stvd. engine/EDC/transmission III

X1562 Stvd. gearbox

X1627 Stvd. reversing beam

X1829 Crimped connector, line 31000

X1948 Stvd. engine/transmission (MP box)

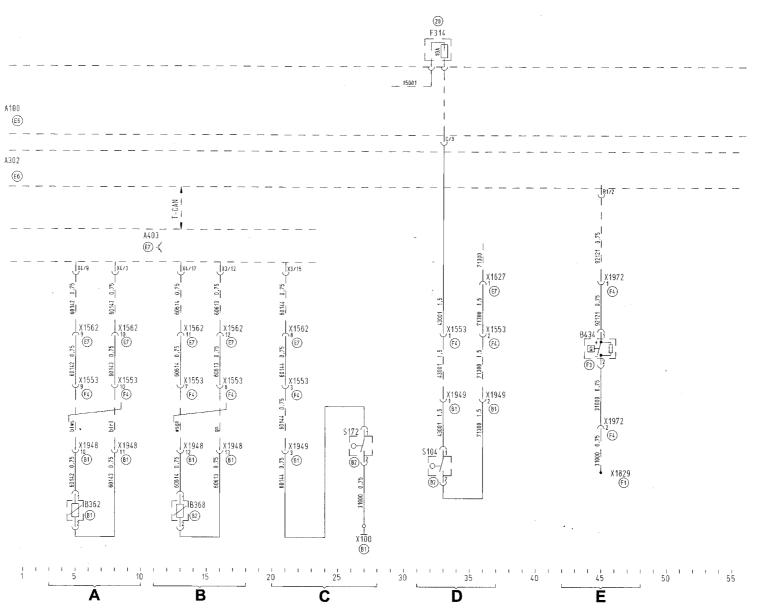
X1949 Stvd. engine/transmission (MP box)

X1972 Stvd. pedals, external

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2579 Sheet 2 of 2



ZF transmission 16S151/16S181 (RL)

Legend

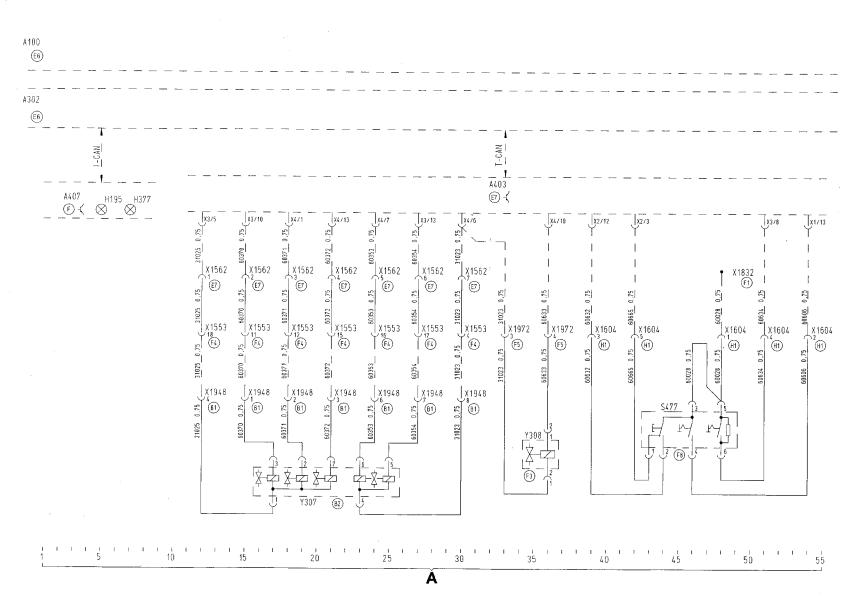
Wiring diagram no. **81.99192.2835** Sheet **1** of 2 Change status: 05.01

A = Pre-shift group, range shift group

A 100 A302 A403 A407	(352) (339)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer Instrumentation
H 195 H377		Indicator light pre-shift group Indicator light, lower range active
S 477	(474)	Switch, gearshift lever
X1553 X1562 X1604 X1832 X1948 X1972		Stvd. engine/EDC/transmission III Stvd. gearbox Stvd. switch in gearshift knob Crimped connector, line 60028 Stvd. engine/transmission (MP box) Stvd. foot pedals, exterior
Y 307 Y308		Solenoid valve, splitter and range grou Clutch servo

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



ZF transmission 16S151/16S181 (RL)

Legend

Wiring diagram no. **81.99192.2835** Sheet **2** of 2 Change status: 12.00

A = Clutch displacement sensor

B = Gearbox input speed

C = Gearbox neutral

D = Switch, reverse gear

E = Clutch fluid level probe

A 100	(255)	Central fus	e, relay	and	terminal	block

A302 (352) Central computer 2

A403 (339) Vehicle management computer

B362 (264) Clutch displacement sensor

B368 (292) Induction-type pulse generator, gearbox input speed

B434 (272) Sensor for clutch fluid

F314 (101) Fuse, reversing light

S104 Switch, reverse gear

S172 (478) Switch, neutral position gearbox S275 (478) Switch, neutral position gearbox

X 1549	Stvd. engine/EDC/transmission I
X1553	Stvd. engine/EDC/transmission III
X1562	Stvd. gearbox
X1627	Stvd. reversing beam
V1603	Crimped connector line 60028

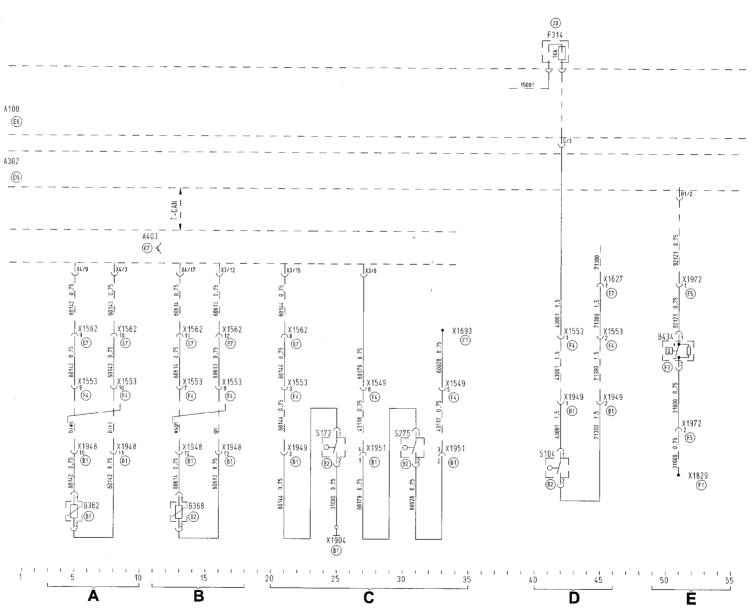
X1693 Crimped connector, line 60028 X1829 Crimped connector, line 31000 X1904 Threaded bolt M6 (MP box)

X1948 Stvd. engine/transmission (MP box) X1949 Stvd. engine/transmission (MP box) X1951 Stvd. engine/transmission (MP box)

X1972 Stvd. pedals, external

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J1 B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Seat belt indicator, driver

Legend

Wiring diagram no. **81.99192.1374** Sheet **1** of 1 Change status: 04.01

A = Seatbelt indicator

A100 (255) Central fuse, relay and terminal block
 A302 (352) Central computer 2
 A407 (342) Instrumentation
 H177 Indicator light, seat belt
 S252 (562) Switch in driver's seat belt lock
 X600 Stvd. seat belt indicator, driver/middle seat
 X2541 (246) Potential distributor, 21-pin line 31000

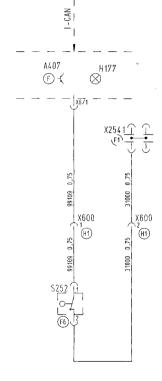
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.1374 Sheet 1 of 1

A302
(E6)



1 5 10 15 20 25 30 35 40 45 50 55 **A**

ADDITIONAL WIRING DIAGRAMS

K 90 4.08 - 1

Trailer charge 24V

Legend

Wiring diagram no. **81.99192.2616** Sheet **1** of 1 Change status: 07.99

A = Trailer charge

A 100 A302 A372	. ,	Central fuse, relay and terminal block Central computer 2 Distributor box, trailer charge 24V
F 229	(125)	Fuse, trailer charge 24V
G 100 G101		Battery 1 Battery 2
K 319	(104)	Relay, trailer charge 24V
X100 X805 X806 X807 X808 X1754	(141)	Earthing point, engine Stvd. trailer charge 24V Stvd. trailer charge 24V Stvd. trailer charge 24V Trailer charge 24V Crimped connector, line 59104

Marking of mounting positions

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () to earth of consumers in frame

Note:

Mounting position of **X808** for semitrailers is E8!

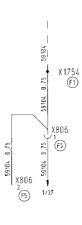
- 6 Driving seat
- Passenger seat
- (FB) Control panel
- (G) Battery box
- (H) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- 2 A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

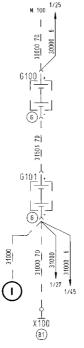
Wiring diagram no. 81.99192.2616 Sheet 1 of 1

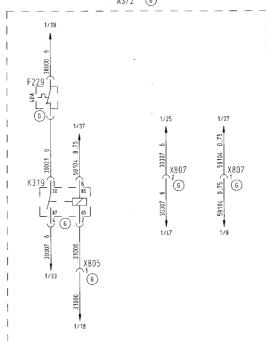
A100 (E6)

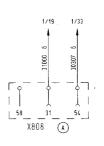
A302

(6) A372 (6)









Å

Heating for hydraulic gearshift (HGS) (LL)

Legend

Wiring diagram no. 81.99192.2684 Sheet 1 of 1

Change status: 10.99

A = HGS (hydraulic gearshift) heating

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

R214 (155) Heating element for HGS (hydraulic gearshift) heating

X1642 Earthing point, cab, behind instrument panel

X1972 Stvd. pedals, external

X2255 Stvd. HGS (hydraulic gearshift) heating

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- (R2) Rear part of frame
- S₁ Door left
- © Door right



Wiring diagram no. 81.99192.2684 Sheet 1 of 1 A100 A302 2 X2255 1 F3 2 X2255

Heating for hydraulic gearshift (HGS) (RL)

Legend

Wiring diagram no. **81.99192.2690** Sheet **1** of 1

Change status: 10.99

A = HGS (hydraulic gearshift) heating

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

R214 (155) Heating element for HGS (hydraulic gearshift) heating

X1642 Earthing point, cab, behind instrument panel

X1972 Stvd. foot pedals, exterior

X2255 Stvd. HGS (hydraulic gearshift) heating

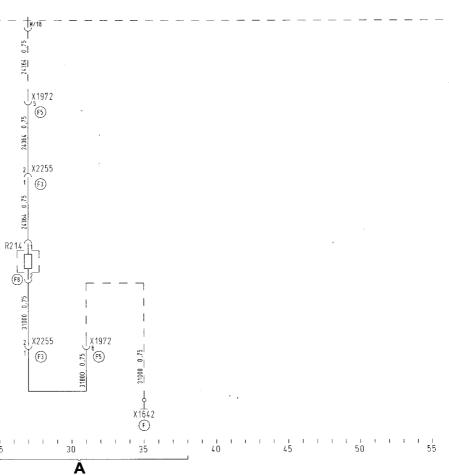
- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right



Wiring diagram no. **81.99192.2690** Sheet **1** of 1

A302 ______



Horn switchover (LL)

Legend

X1891

X1967

Y299

Wiring diagram no. **81.99192.1375** Sheet **1** of 1 Change status: 04.01

A = Horn switchover

A 100 A302		Central fuse, relay and terminal block Central computer 2
F 375	(101)	Fuse, cab outside (terminal 15)
H 102 H169	,	Horn Horn (dual-tone)
S 108 S160		Steering column switch (indicators, wipers and headlights) Switchover device, horn 1 – horn 2
X1550 X1639		Stvd. front region, right Soldered connector, line 16000

Stvd. 1 combination steering column switch

Stvd. adaptation horn switchover

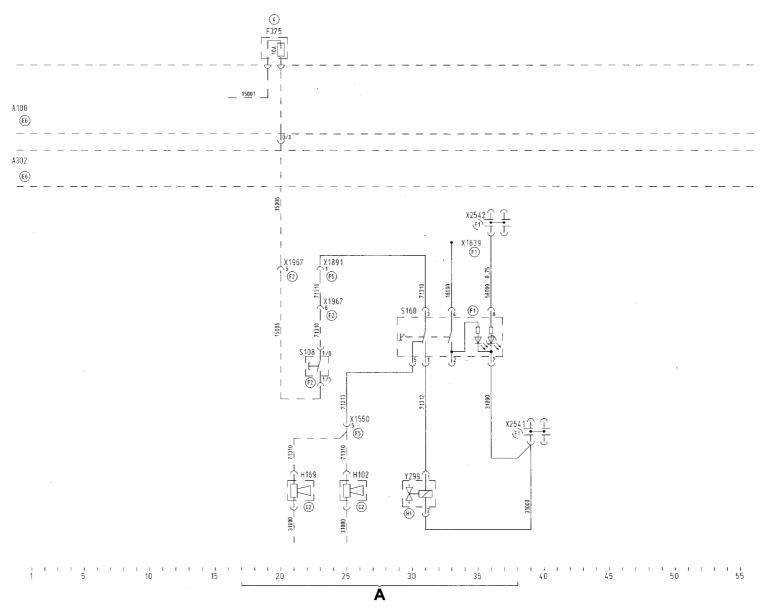
(186) Solenoid valve for compressed air horn

X2541 (246) Potential distributor, 21-pin line 31000 X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2) Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- (2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1375 Sheet 1 of 1



Horn switchover (RL)

Legend

Y299

Wiring diagram no. **81.99192.1376** Sheet **1** of 1 Change status: 04.01

A = Horn switchover

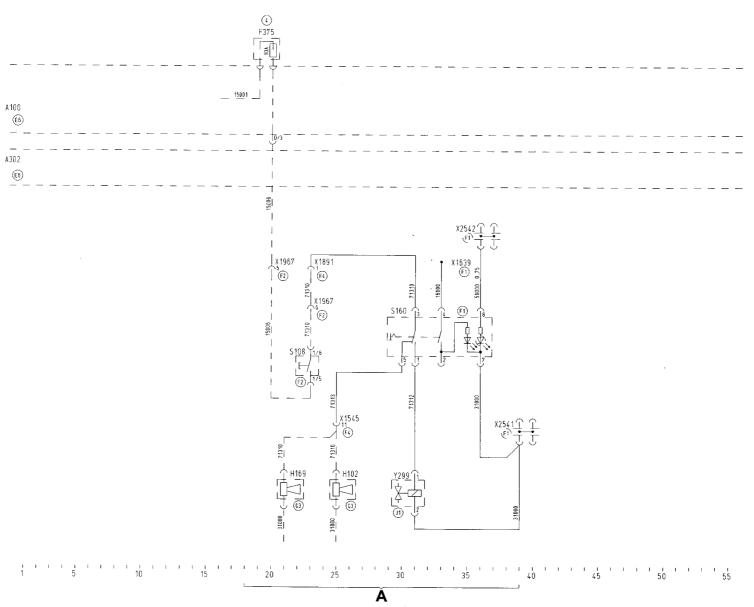
A 100 A302	,	Central fuse, relay and terminal block Central computer 2
F 375	(101)	Fuse, cab outside (terminal 15)
H 102 H169	(142) (143)	Horn Horn (dual-tone)
S 108 S160	,	Steering column switch (indicators, wipers and headlights) Switchover device, horn 1 – horn 2
X1545 X1639 X1891 X1967 X2541 X2542	,	Stvd. front region, left Crimped connector, line 16000 Stvd. adaptation horn switchover Stvd. 1 combination steering column switch Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

(186) Solenoid valve for compressed air horn

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1376 Sheet 1 of 1



K 90 4.09 - 1

Interior lighting, roof (white/red)

Legend

Wiring diagram no. **81.99192.1377** Sheet **1** of 1 Change status: 04.01

A = Interior lighting, roof (white/red)

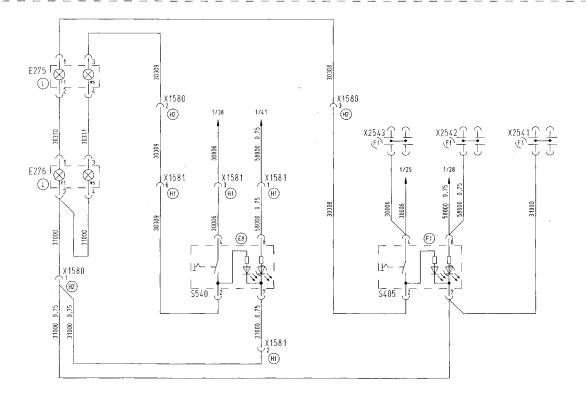
A 100 A302		Central fuse, relay and terminal block Central computer 2
E 275 E276		Interior lighting, roof (white/red), left Interior lighting, roof (white/red), right
S 405 S540		Switch, interior lighting (red) Switch, interior lighting (white)
X1580 X1581 X2541 X2542 X2543	(246)	Stvd. interior lighting Stvd. switch, interior lighting Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000 Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ^(R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1377 Sheet 1 of 1

A100 (E) A302 (E)



1 5 10 15 20 25 30 35 40 45 55

Intarder ZF-EST 48

Legend

Y133

Y134

Wiring diagram no. **81.99192.1378** Sheet **1** of 1 Change status: 04.01

A = Additional retarding brake pushbutton switch

B = Temperature sensor

C = Solenoid valve

D = Diagnosis

E = Power supply

A 100	(255)	Central fuse, relay and terminal block
A144	(451)	Control unit, retarder
A302	(352)	Central computer 2
A403	(339)	Vehicle management computer
A 407	(0.40)	Instrumentation

A407 (342) Instrumentation

A437 (398) Additional retarding brake pushbutton switch

B134 (155) Temperature sensor, cooling water (retarder)

F 152	(101)	Fuse retarder (terminal 15)
F374	(101)	Fuse retarder (terminal 30)

H 145	Indicator light, retarder
X1553	Styd. engine/EDC/transmission III
X1559	Stvd. engine/EDC/transmission IV
X1644	Earthing point, cab, adjacent to central fuse, relay and terminal block
X1948	Stvd. engine/transmission (MP box)
X1949	Stvd. engine/transmission (MP box)
X1951	Stvd. engine/transmission (MP box)
X1969	Stvd. engine brake switch

X2544 (246) Potential distributor 21-pin K-line

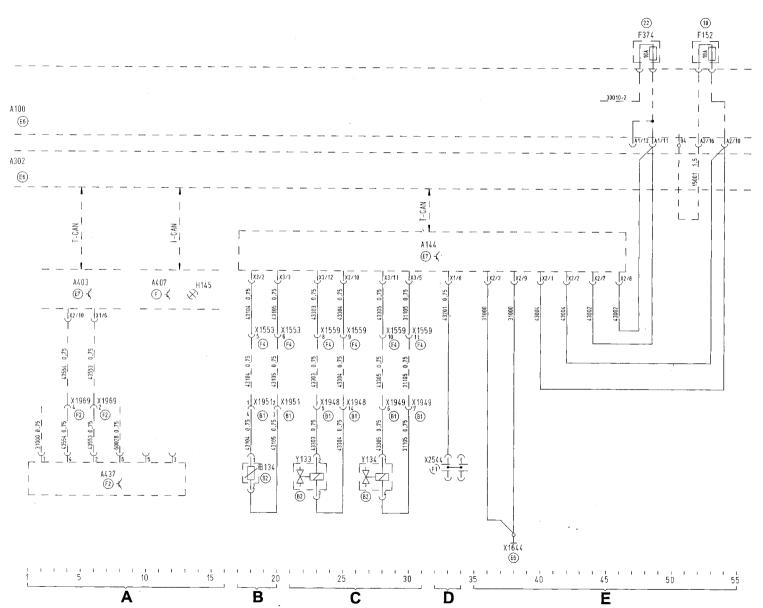
(123) Solenoid valve, reservoir

(182) Proportioning valve, retarder

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- 66 Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1378 Sheet 1 of 1



K 90 4.11 - 1

Tipper indicator

Legend

Wiring diagram no. **81.99192.1379** Sheet **1** of 1 Change status: 04.01

A = Tipper indicator

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A407 (342) Instrumentation

H148 Indicator light, tipper

\$192 (537) Switch, indicator tipper

X674 Stvd. tipper indicator

X2541 (246) Potential distributor, 21-pin line 31000

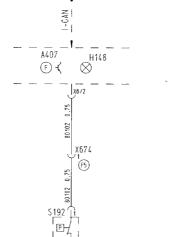
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.1379 Sheet 1 of 1

AJUZ



1 5 10 15 20 25 30 35 40 45 50 55 **A**

Air conditioning unit

Legend

Wiring diagram no. **81.99192.1380** Sheet **1** of 2 Change status: 04.01

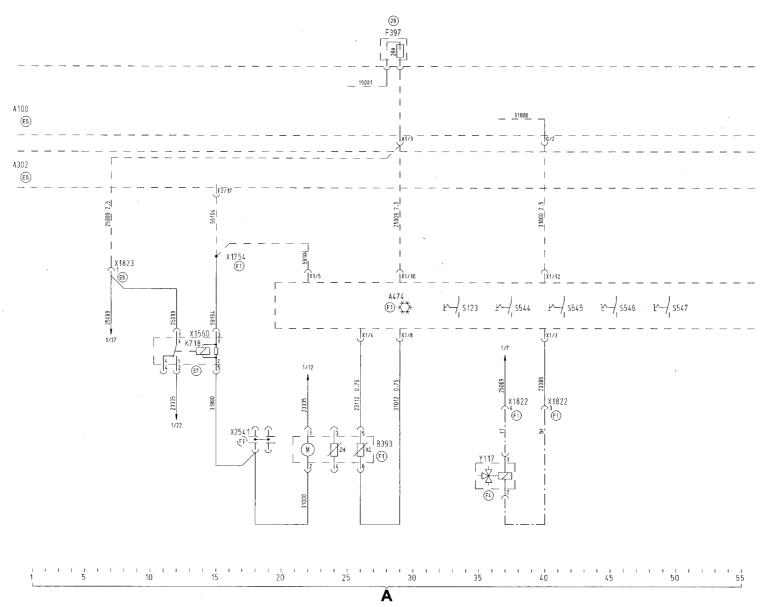
A = Power supply, water timing valve, internal temperature sensor

A 100 A302 A474	(255) (352) (467)	Central fuse, relay and terminal block Central computer 2 Control device, cab heating with/without air-conditioning
B 393	(302)	Temperature sensor, internal air (air-conditioning system)
F 397	(104)	Fuse, heater blower/air-conditioning unit
K 718	(283)	Relay, temperature sensor, internal air (air-conditioning system)
\$123 \$544 \$545 \$546 \$547	(A467) (A467) (A467)	Switch, fresh air circulation vent Switch AC-EIN ("ON") Switch, reheat Rotary control, internal temperature Rotary control, blower
X1560 X1754 X1822 X1823 X2541	(203)	Relay socket K718, K Crimped connector, line 59104 Stvd. air-conditioning system Stvd. air-conditioning, terminal 15 Potential distributor, 21-pin line 31000
Y 117		Solenoid valve, front air-conditioning unit

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1380 Sheet 1 of 2



Air conditioning unit

Legend

Wiring diagram no. **81.99192.1380** Sheet **2** of 2 Change status: 04.01

A = Coolant vessel

B = Magnetic clutch, compressor

C = Air-conditioning system, scope of delivery, Behr

A100 (255) Central fuse, relay and terminal block
A302 (352) Central computer 2
A474 (467) Control device, cab heating with/without air-conditioning
A480 (373) Air-conditioning system, scope of delivery, BEHR

B203 (303) High/low pressure switch, coolant vessel

X1551 Stvd. engine/EDC/transmission II X1822 Stvd. air conditioning unit

X1835 (221) Crimped connector, line 58000

X1838 (221) Crimped connector, line 58300

X2544 (246) Potential distributor 21-pin K-line

Y114 (139) Magnetic clutch, compressor

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- (F3) Foot pedals
- F4 Front wall, inside left
- 5 Front wall, inside right
- () Clock-pulse regulator
- (II) Blower
- Fresh/circulating air
- V Heat exchanger sensor
- (V) External temperature sensor
- (VII) Condenser sensor

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Pront part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1380 Sheet 2 of 2 A100 (E6) A302 (E6) A474 F1 *** B203 P A480 F1

Fuel filter heater

Legend

Wiring diagram no. **81.99192.2487** Sheet **1** of 1 Change status: 05.00

A = Fuel filter heating

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F156 (140) Fuse, fuel filter heating

F355 (132) Main fuse (terminal 30-2)

K177 (299) Relay, fuel filter heating

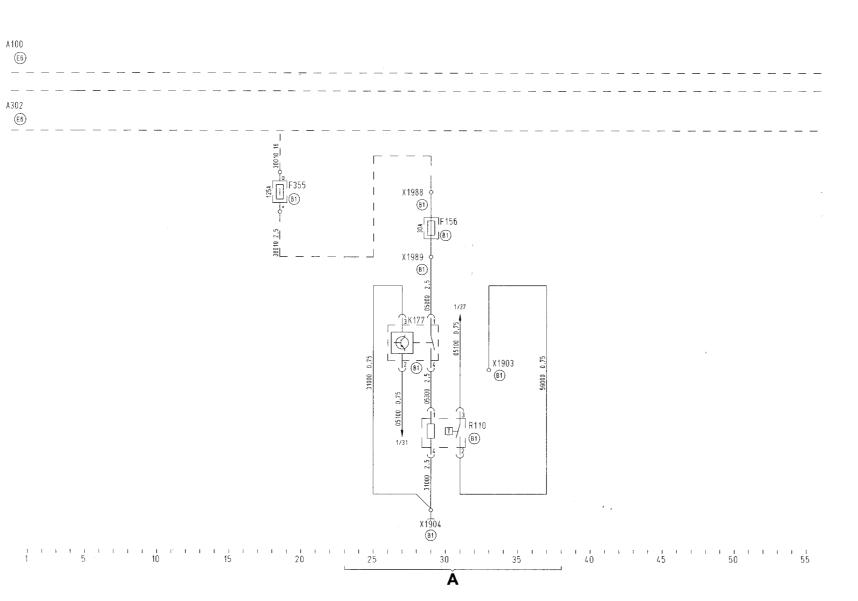
R110 (147) Fuel filter heating 1

X1903 Threaded bolt M6 (MP box)
X1904 Threaded bolt M6 (MP box)
X1988 Threaded bolt M5 (MP box)
X1989 Threaded bolt M5 (MP box)

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2487 Sheet 1 of 1



Fuel filter heater, Separ

Legend

Wiring diagram no. **81.99192.2665** Sheet **1** of 1 Change status: 08.00

A = Fuel filter heating, Separ

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F549 (105) Fuse, fuel filter heating

G100 (113) Battery 1 G101 (113) Battery 2

K177 (299) Relay, fuel filter heating

R110 (153) Fuel filter heating 1

X1754 Crimped connector, line 59104 X2201 Stvd. filter heating, Separ

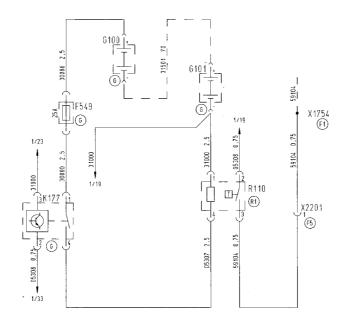
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- § Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2665** Sheet **1** of 1

A100 (ES)

A302



À

Cool box

Legend

Wiring diagram no. **81.99192.1382** Sheet **1** of 1 Change status: 11.01

A = Cool box

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A478 (368) Refrigerator

F147 (118) Fuse, refrigerator

\$548 (521) Switch, refrigerator

X1571 Stvd. refrigerator

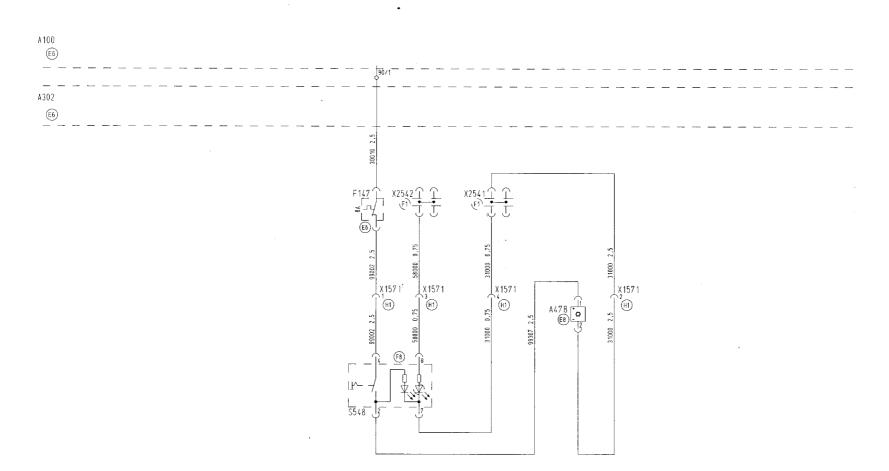
X2541 (246) Potential distributor, 21-pin line 31000

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ① Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1382 Sheet 1 of 1



1 5 10 15 20 25 30 35 40 45 55 **A**

Special customised module

Legend

Wiring diagram no. **81.99192.1381** Sheet **1** of 1 Change status: 04.01

A = ZDR interface (FFR)

B = ZDR interface (KSM)

C = Diagnosis

D = Power supply

A 100	(255)	Central	fuse,	relay	and	terminal	block
--------------	-------	---------	-------	-------	-----	----------	-------

A302 (352) Central computer 2

A312 (397) Customer-specific control module

A403 (339) Vehicle management computer

F428 (118) Fuse, special customer module (terminal 15)

F429 (118) Fuse, special customer module (terminal 30)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1996 Stvd. intermediate speed control interface (FFR)

X1997 Stvd. intermediate speed control interface (KSM)

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- ② Entrance right
- © Entrance left
- (E6) Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1381 Sheet 1 of 1 A100 A302 €7) **-**([x1/3]x1/6]x1/2]x1/11 [x2/10]x2/11 [x2/1]x2/1 [x2/1]x1/16 [x2/1]x2/5]x1/5]x1/4 [x1/7]x1/8 [x2/13 [x2/14]x3/7]x3/7 [x3/7]x3/7 X 1644 (E6) 1 5 10 15 20 25 30 35 40 45 50 55

4.11 - 15

K 90 4.12 - 1

Tailgate

Legend

Wiring diagram no. **81.99192.1537** Sheet **1** of 1 Change status: 09.01

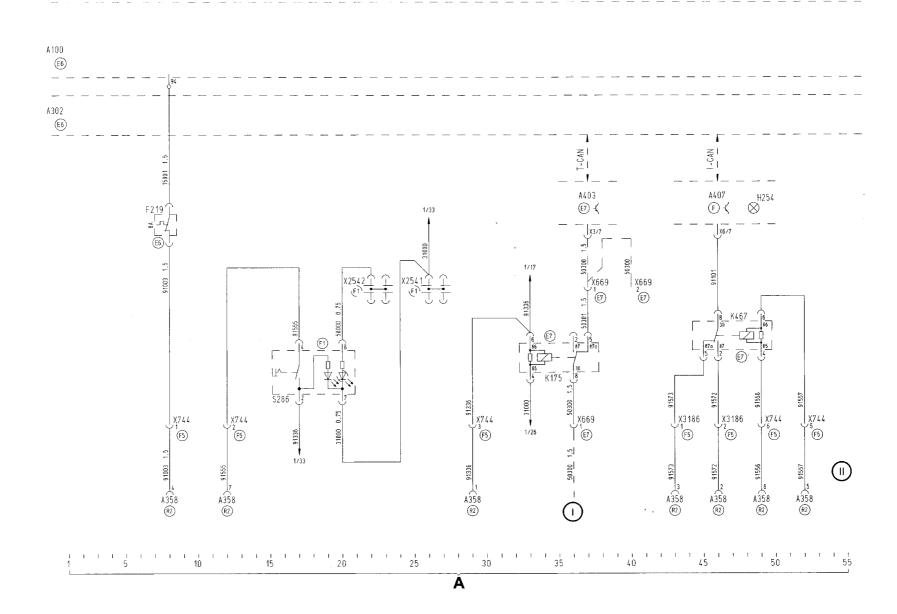
A = Tailgate

A 100 A302 A358 A403 A407	(352) (339)	Central fuse, relay and terminal block Central computer 2 Control, tailgate Vehicle management computer Instrumentation
F 219	(118)	Fuse, tailgate (terminal 15)
H 254		Indicator light, tailgate
K 175 K467	· - · /	Relay, start inhibitor Relay, tailgate
S 286	(547)	Switch, tailgate
X669 X744 X2541 X2542 X3186		Stvd. start inhibitor Stvd. cab tailgate Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000 Stvd. tailgate

- A Tail
 B1 Engine
 B2 Gearbox
 C Front
 C1 Bumper
- © Entrance right
- ©3 Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right
- Separate series Stvd. **X669** and connect "Kbs." cab-tailgate between them
- (III) Cables 91003, 91336, 91555, 91556, 91557, 91572 and 91573 lead to 7-pin terminal casing at the end of the frame (rolled up)

Wiring diagram no. 81.99192.1537 Sheet 1 of 1



Cargo area lighting

Legend

Wiring diagram no. **81.99192.1384** Sheet **1** of 1 Change status: 04.01

A = Cargo space lighting

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F178 (118) Fuse, cargo space lighting

\$226 (541) Switch, cargo space lighting

X1572 Stvd. cargo area lighting

X2541 (246) Potential distributor, 21-pin line 31000

X2542 (246) Potential distributor, 21-pin line 58000

Marking of mounting positions

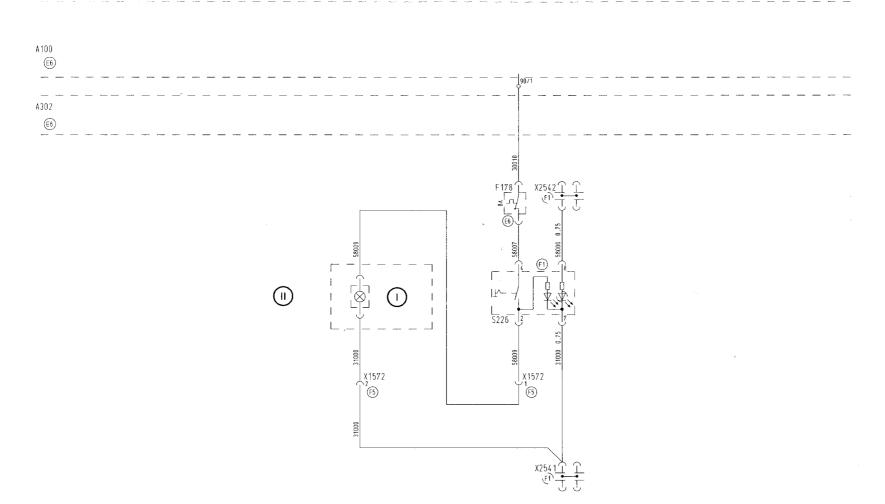
- (A) Tail
- ®1) Engine
- B2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- (R2) Rear part of frame
- ⑤1 Door left
- © Door right

Scope of delivery, body manufacturers

(II) Cables 58009 and 31000 are placed rolled up as reserve for cargo space lighting, left

Wiring diagram no. 81.99192.1384 Sheet 1 of 1



5 10 15 20 25 30 35 40 45 50 55

Headlight levelling (LL)

Legend

Wiring diagram no. **81.99192.2477** Sheet **1** of 1 Change status: -

A = Headlight levelling

A100 A187 A188 A302	(255) (411) (412) (352)	Central fuse, relay and terminal block Headlights, left Headlights, right Central computer 2
M 117 M118		Actuator motor, headlight levelling, left Actuator motor, headlight levelling, right
R 109	(136)	Positioning potentiometer, headlight levelling
X 1545 X1550 X1835		Stvd. front region, left Stvd. front region, right Crimped connector, line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- F1 Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Parking light, left
- Parking light, right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Headlight levelling (RL)

Legend

Wiring diagram no. **81.99192.2445** Sheet **1** of 1 Change status: 02.99

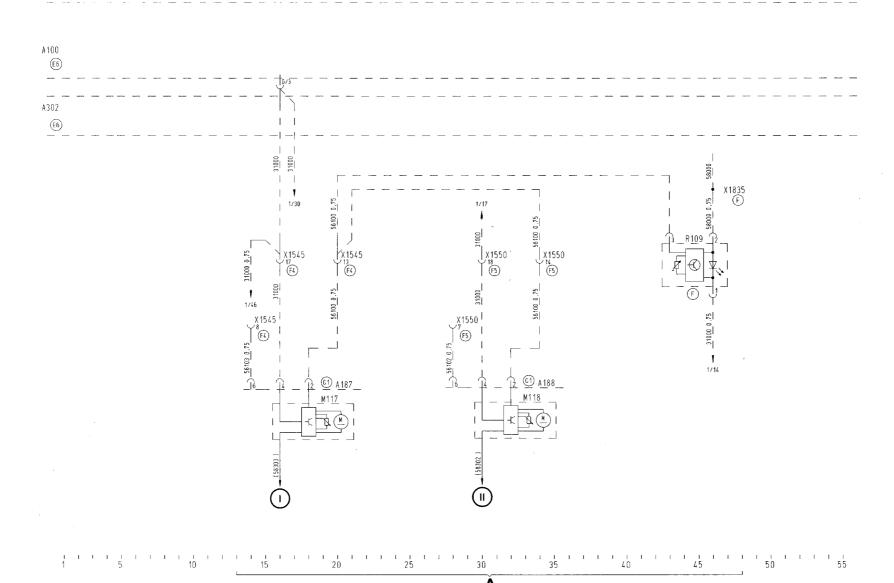
A = Headlight levelling

A100 A187 A188 A302	(255) (411) (412) (352)	Central fuse, relay and terminal block Headlights, left Headlights, right Central computer 2
M 117 M118		Actuator motor, headlight levelling, left Actuator motor, headlight levelling, right
R 109	(136)	Positioning potentiometer, headlight levelling
X 1545 X1550 X1835		Stvd. front region, left Stvd. front region, right Crimped connector, line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Parking light, left
- Parking light, right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- (2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Wiring diagram no. 81.99192.2445 Sheet 1 of 1



K 90 4.13 - 1

Engine brake, automatic

Legend

Wiring diagram no. **81.99192.1385** Sheet **1** of 1 Change status: 04.01

A = Engine brake, automatic

A 100	(255)	Central fuse, relay and terminal block
A302	(352)	Central computer 2

A403 (339) Vehicle management computer

\$753 (667) Switch, engine brake

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1385 Sheet 1 of 1

A100 (E6)

A302

1 5 10 15 20 25 30 35 40 45 50 55 **A**

K 90 4.14 - 1

Power take-off 1

Legend

Y153

Wiring diagram no. **81.99192.1388** Sheet **1** of 1 Change status: 04.01

A = Power take-off 1 with ZDR interface

A 100 A302 A403	(352)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer
G 101	(113)	Battery 2
S 219 S222		Switch, indicator, power take-off 1 Switch, power take-off 1
X 327		Stvd. solenoid valve, frame

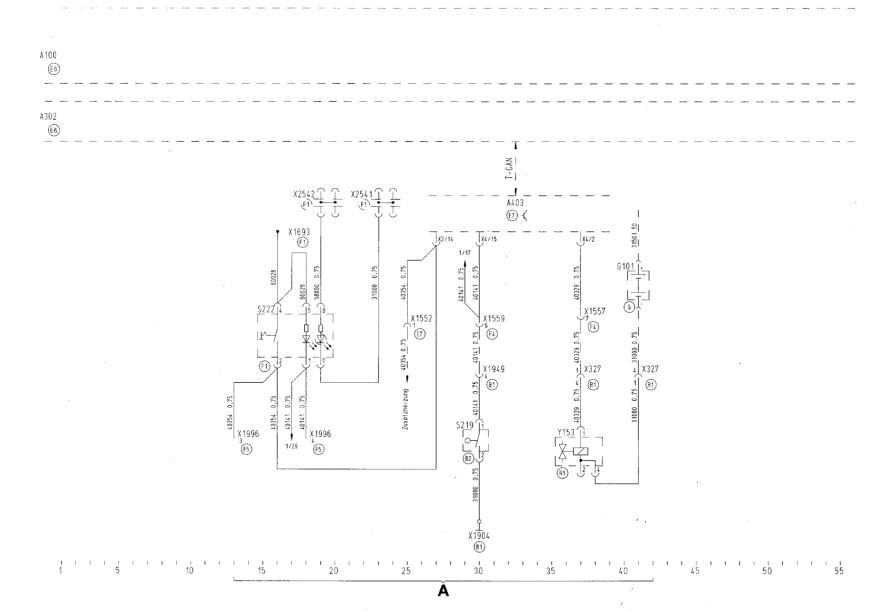
X 327		Stvd. solenoid valve, frame
X1552		Stvd. power take-off I/TRS heating
X1557		Stvd. frame left
X1559		Stvd. engine/EDC/transmission IV
X1693		Crimped connector, line 60028
X1904		Threaded bolt M6 (MP box)
X1949		Stvd. engine/transmission (MP box)
X1996		Stvd. intermediate speed control interface (FFR)
X2541	(246)	Potential distributor, 21-pin line 31000
X2542	(246)	Potential distributor, 21-pin line 58000

(126) Solenoid valve, power take-off 1

- (A) Tail
- ^{B1} Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- ② A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1388 Sheet 1 of 1



Power take-off 2

Legend

Wiring diagram no. **81.99192.1389** Sheet **1** of 1 Change status: 04.01

Y154 (126) Solenoid valve, power take-off 2

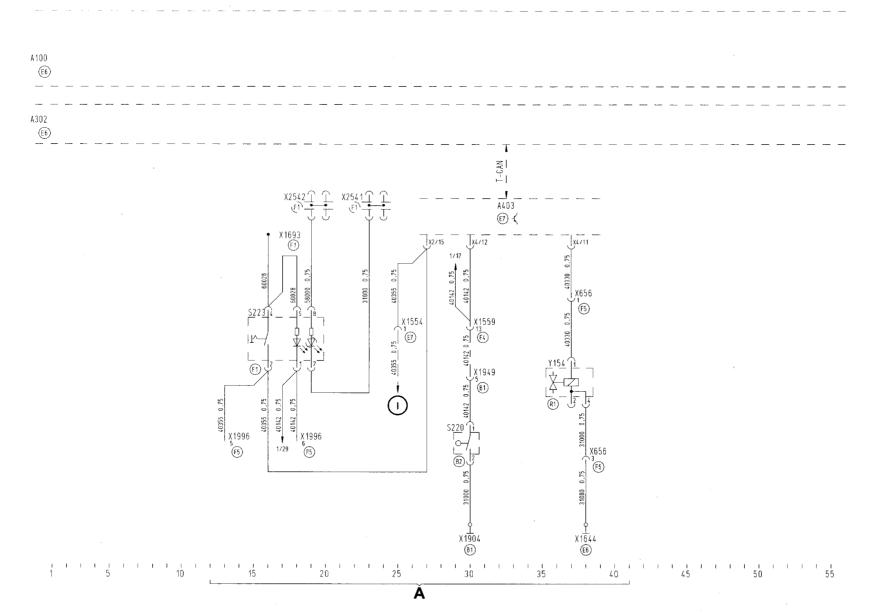
A = Power take-off 2 with ZDR interface

A 100 A302 A403	(352)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer
S 220 S223		Switch, indicator, power take-off 2 Switch, power take-off 2
X656 X1554 X1559 X1644 X1693 X1904 X1949 X1996 X2541 X2542		Stvd. cab frame Stvd. power take-off 2/TRS heating Stvd. engine/EDC/transmission IV Earthing point, cab, adjacent to central fuse, relay and terminal block Crimped connector, line 60028 Threaded bolt M6 (MP box) Stvd. engine/transmission (MP box) Stvd. intermediate speed control interface (FFR) Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- (A) Tail
- ⁸¹ Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (f) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Supplementary heating

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1389 Sheet 1 of 1



ADDITIONAL WIRING DIAGRAMS

K 90 4.18 - 1

Radio 12V

Legend

Wiring diagram no. **81.99192.2475** Sheet **1** of 1 Change status: 02.01

A = Radio

B = Active aerial

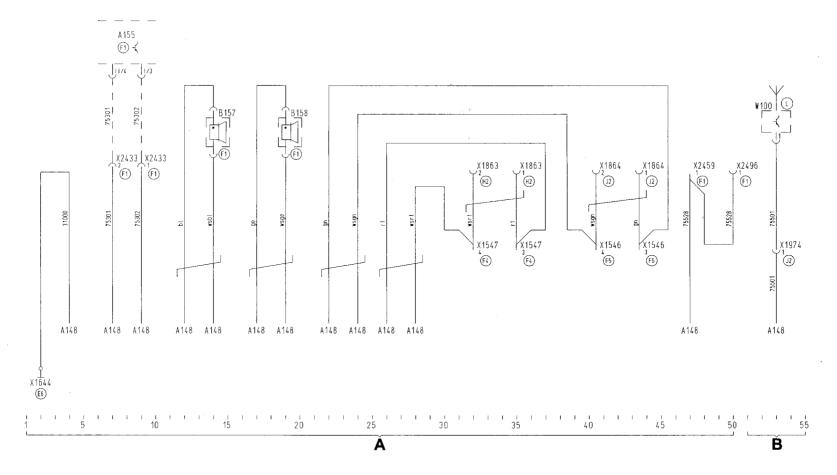
A 100 A148	(255)	Central fuse, relay and terminal block Radio/cassette player
A146	(182)	Voltage transformer 24V/12V
A302		Central computer 2
B 157		Driver's loudspeaker, front left
B158	(298)	Driver's loudspeaker, front right
W 100	(173)	Radio aerial
	()	
X 1546		Stvd. door right
X1547		Stvd. door left
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X1974		Stvd. for active aerial
X2433		Stvd. adaptation 12V radio
X2459		Stvd. adaptation mute signal
X2496		Adaptation mute signal lane guard

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2475 Sheet 1 of 1





Radio 12V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2484** Sheet **1** of 1 Change status: 11.00

A = Radio

B = Active aerial

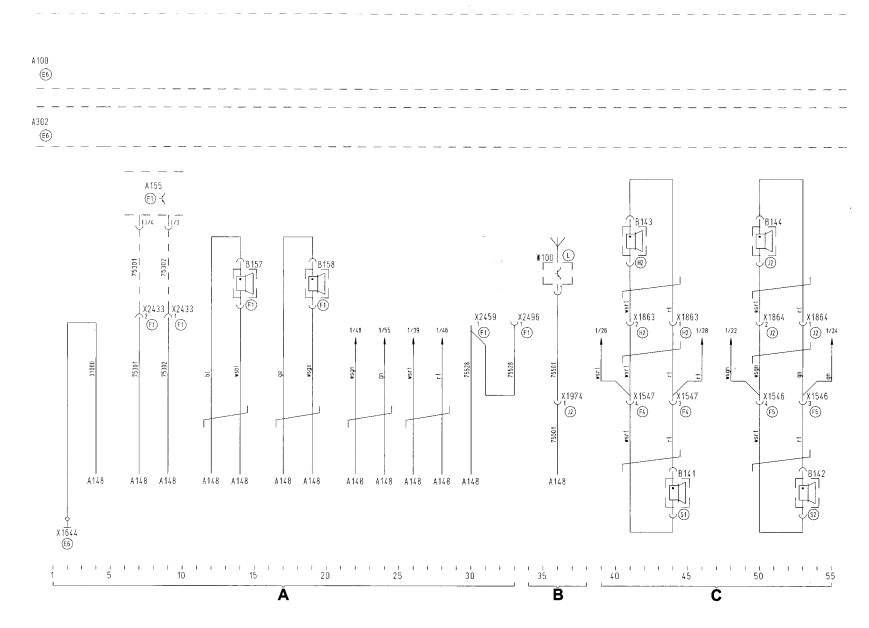
C = Loudspeaker

(182)	Central fuse, relay and terminal block Radio/cassette player Voltage transformer 24V/12V Central computer 2
3141 (296) Loudspeaker 1, door left 3142 (296) Loudspeaker 1, door right 3143 (297) Loudspeaker 2, door left 3144 (297) Loudspeaker 2, door right 3157 (298) Driver's loudspeaker, front left 3158 (298) Driver's loudspeaker, front right	
(173)	Radio aerial
	Stvd. door right Stvd. door left Earthing point, cab, adjacent to central fuse, relay and terminal block
	Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. for active aerial Stvd. adaptation 12V radio Stvd. adaptation mute signal Stvd. adaptation mute signal lane guard
	(182) (352) (296) (296) (297) (297) (298) (298)

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- Passenger seat
- (FB) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2484 Sheet 1 of 1



Radio 12V MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2444** Sheet **1** of 1 Change status: 12.00

A = Radio

B = Active aerial

C = Loudspeaker

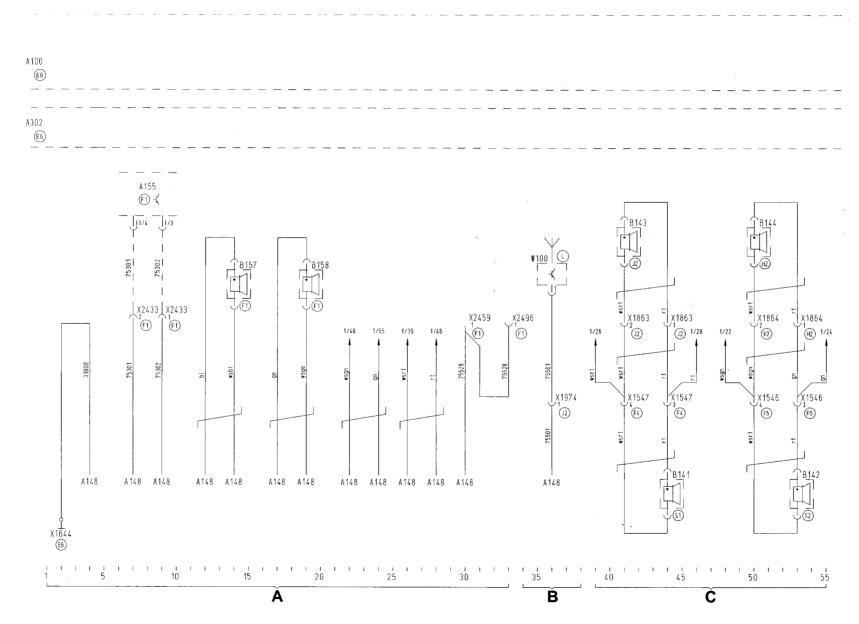
A 100 A148 A155 A302	(182)	Central fuse, relay and terminal block Radio/cassette player Voltage transformer 24V/12V Central computer 2
B 141 B142 B143 B144 B157 B158	(296) (297) (297) (298)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Driver's loudspeaker, front left Driver's loudspeaker, front right
W 100	(173)	Radio aerial

X 1546	Stvd. door right
X1547	Stvd. door left
X1644	Earthing point, cab, adjacent to central fuse,
	relay and terminal block
X1863	Stvd. loudspeaker, left
X1864	Stvd. loudspeaker, right
X1974	Stvd. for active aerial
X2433	Stvd. adaptation 12V radio
X2459	Stvd. adaptation mute signal
X2496	Styd_adaptation mute signal lane guard

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ©2) Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- E8 Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Wiring diagram no. 81.99192.2444 Sheet 1 of 1



Radio 24V

Legend

Wiring diagram no. **81.99192.2879** Sheet **1** of 1 Change status: 10.00

A = Active aerial

B = Radio

A 100 A148 A302	(574)	Central fuse, relay and terminal block Radio/cassette player Central computer 2
B 157 B158		Driver's loudspeaker, front left Driver's loudspeaker, front right
W 100	(173)	Radio aerial

W 100	(173)	Hadio actial
X 1639		Soldered connector, line 16000
X1643		Soldered connector, line 58300
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X1974		Stvd. for active aerial
X2543	(246)	Potential distributor, 21-pin line 30006

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

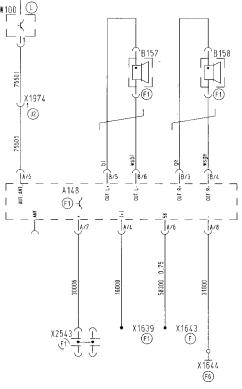
- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2879 Sheet 1 of 1

A 100 (E6)

A302

W100 C



A B

Radio 24V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2855** Sheet **1** of 1 Change status: 09.00

A = Active aerial

B = Radio

C = Amplifier

D = Loudspeaker

A100 (255) Central fuse, relay and terminal block

A148 (574) Radio/cassette player

A302 (352) Central computer 2

B141 (296) Loudspeaker 1, door left

B142 (296) Loudspeaker 1, door right

B143 (297) Loudspeaker 2, door left

B144 (297) Loudspeaker 2, door right

B157 (298) Driver's loudspeaker, front left

B158 (298) Driver's loudspeaker, front right

N106 (127) Audio amplifier

W100 (173) Radio aerial

X1546 Stvd. door right X1547 Stvd. door left

X1639 Soldered connector, line 16000

X1643 Soldered connector, line 58300

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1863 Stvd. loudspeaker, left

X1864 Stvd. loudspeaker, right

X1974 Stvd. for active aerial

X2459 Stvd. adaptation mute signal

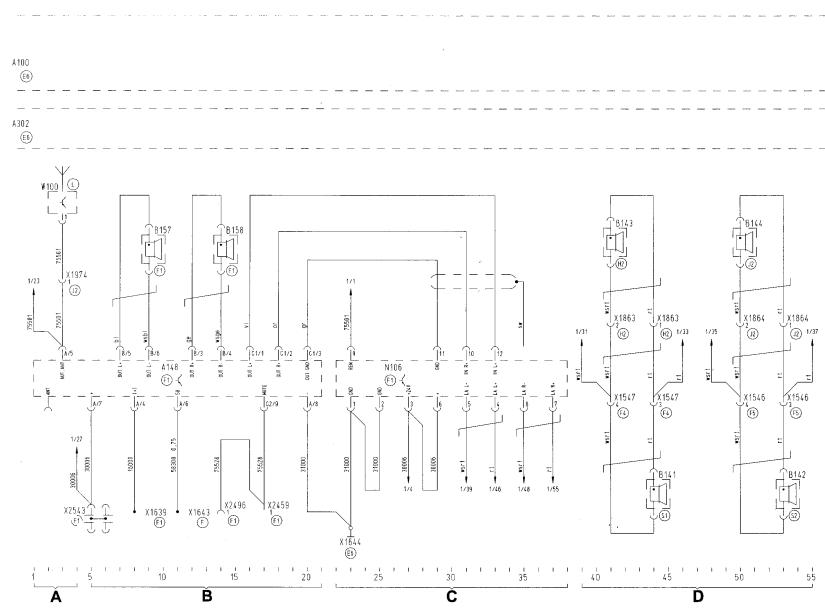
X2496 Adaptation mute signal lane guard

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2855 Sheet 1 of 1



Radio 24V MAN-Sound (RL)

Legend

Wiring diagram no. 81.99192.2856 Sheet 1 of 1 Change status: 09.00

A = Active aerial

B = Radio

C = Amplifier

D = Loudspeaker

A 100	(255)	Central fuse, relay and terminal block
A148	(574)	Radio/cassette player
A302	(352)	Central computer 2

B 141	(296) Loudspeaker 1, door left
B142	(296) Loudspeaker 1, door right
B143	(297) Loudspeaker 2, door left
B144	(297) Loudspeaker 2, door right

(298) Driver's loudspeaker, front left B157

(298) Driver's loudspeaker, front right B158

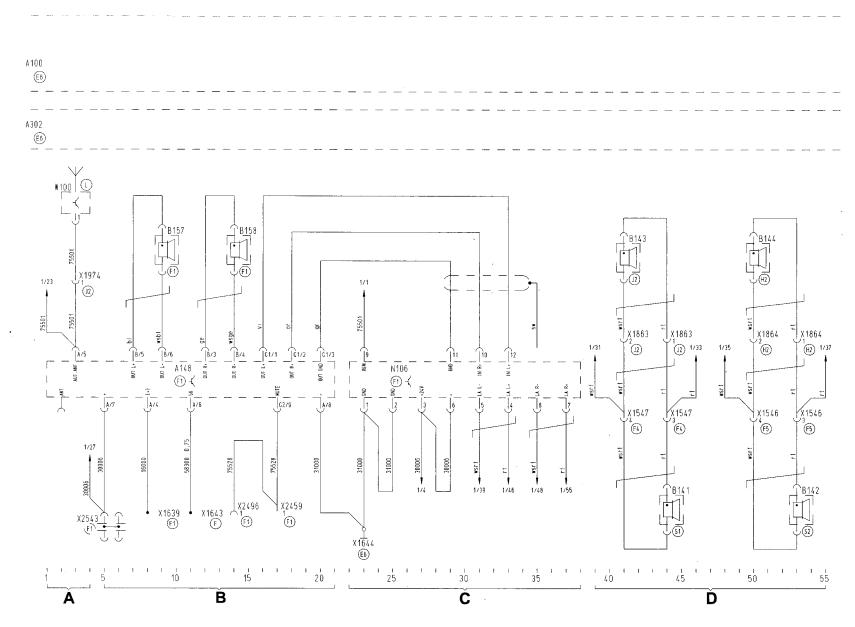
(127) Audio amplifier **N**106

Э,
)

- (A) Tail
- (B1) Engine .
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (I) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2856 Sheet 1 of 1



Radio 24V with CD changer and MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2858** Sheet **1** of 2 Change status: 09.00

A = Active aerial B = Radio, CD changer

A100 (255) Central fuse, relay and terminal block

A100 (255) Central fuse, relay and terminal blo A148 (574) Radio/cassette player

A155 (182) Voltage transformer 24V/12V

A155 (182) Voltage transformer 24V/1: A302 (352) Central computer 2

A568 (546) CD changer

B157 (298) Driver's loudspeaker, front left B158 (298) Driver's loudspeaker, front right

W100 (173) Radio aerial

X1639 Soldered connector, line 16000 X1643 Soldered connector, line 58300

X1974 Stvd. for active aerial

X2372 Stvd. supply to CD changer X2433 Stvd. adaptation 12V radio

X2543 (246) Potential distributor, 21-pin line 30006

Marking of mounting positions

(A) Tail

B1 Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4) Front wall, inside left

Front wall, inside right

F6 Driving seat

Passenger seat

(F8) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(I) B-pillar on passenger's side

J2 A-pillar on passenger's side

(L) Ceiling/roof

N Front axle

(P) Rear axle

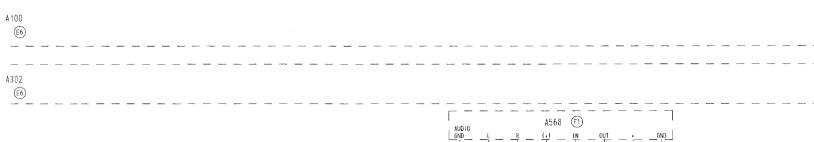
(R1) Front part of frame

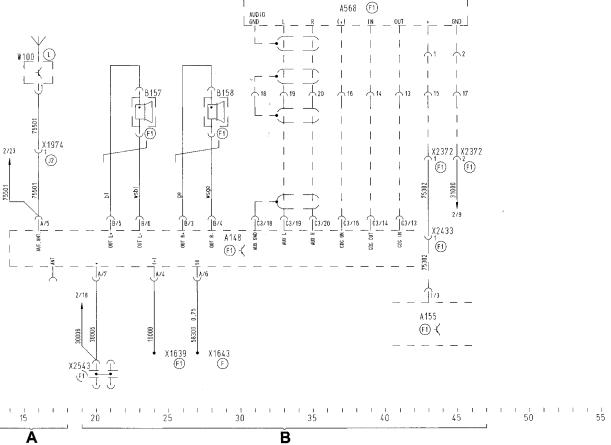
Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.2858 Sheet 1 of 2





K 90

Radio 24V with CD changer and MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2858** Sheet **2** of 2 Change status: 10.00

A = Radio

B = Amplifier

C = Loudspeaker

A100 (255) Central fuse, relay and terminal blockA148 (574) Radio/cassette playerA302 (352) Central computer 2

B141 (296) Loudspeaker 1, door left B142 (296) Loudspeaker 1, door right B143 (297) Loudspeaker 2, door left B144 (297) Loudspeaker 2, door right

N106 (127) Audio amplifier

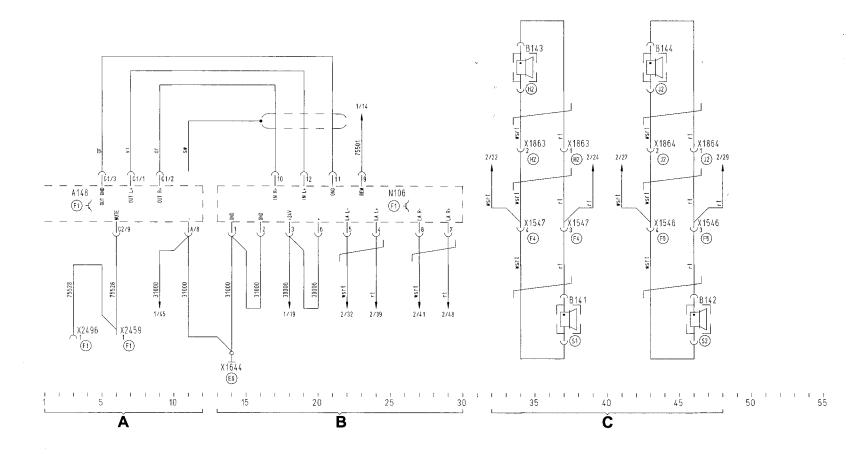
X1546 Stvd. door right
X1547 Stvd. door left
X1644 Earthing point, cab, adjacent to central fuse, relay and terminal block
X1863 Stvd. loudspeaker, left
X1864 Stvd. loudspeaker, right
X2459 Stvd. adaptation mute signal
X2496 Adaptation mute signal lane guard

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2858 Sheet 2 of 2





Radio 24V with CD changer and MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2859** Sheet **1** of 2 Change status: 09.00

A = Active aerial

B = Radio, CD changer

A 100 A148 A155 A302 A568	(574) (182) (352)	Central fuse, relay and terminal block Radio/cassette player Voltage transformer 24V/12V Central computer 2 CD changer
B 157	(298)	Driver's loudspeaker, front left

(298) Driver's loudspeaker, front right

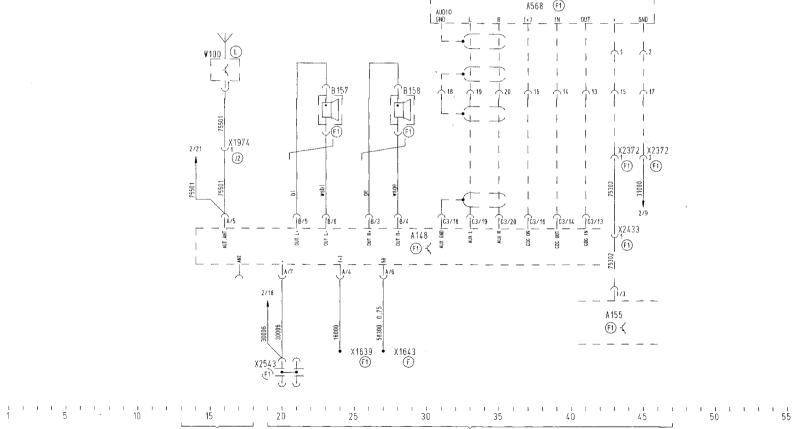
W 100	(173)	Radio	aerial
1100	1101	iluaio	acriai

X 1639		Soldered connector, line 16000
X1643		Soldered connector, line 58300
X1974		Stvd. for active aerial
X2372		Stvd. supply to CD changer
X2433		Stvd. adaptation 12V radio
X2543	(246)	Potential distributor, 21-pin line 30006

- A Tail
- B1 Engine
- B2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- (R2) Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2859 Sheet 1 of 2



Radio 24V with CD changer and MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2859** Sheet **2** of 2 Change status: 10.00

A = Radio

X1863 X1864

X2459

X2496

B = Amplifier

C = Loudspeaker

A 100 A148 A302	(574)	Central fuse, relay and terminal block Radio/cassette player Central computer 2
B 141 B142 B143 B144	(296) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right
N 106	(127)	Audio amplifier
X 1546 X1547 X1644		Stvd. door right Stvd. door left Earthing point, cab, adjacent to central fuse,

relay and terminal block Stvd. loudspeaker, left

Stvd. loudspeaker, right

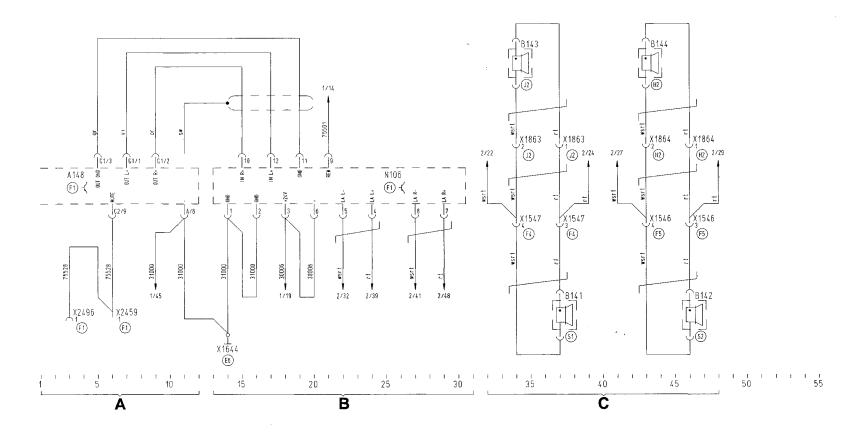
Stvd. adaptation mute signal Adaptation mute signal lane guard

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2859 Sheet 2 of 2





Radio remote control (infrared)

Legend

Wiring diagram no. **81.99192.1371** Sheet **1** of 1 Change status: 05.01

A = Infrared radio remote control

A 100	(255)	Central fuse, relay and terminal block
A 1 1 Q	(200)	Padio/accetta playor

A148 (388) Radio/cassette player A302 (352) Central computer 2

A394 (476) Infrared remote control (receiver)

X1401 Stvd. adaptor radio

X1639 Soldered connector, line 16000

X2541 (246) Potential distributor, 21-pin line 31000

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

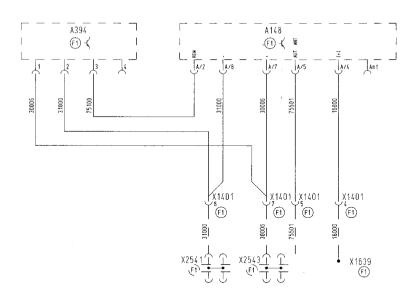
- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. 81.99192.1371 Sheet 1 of 1

A100 (E6)

A302
(E6)



1 5 10 15 20 25 30 35 40 45 50 55 **A**

Radio navigation system 12V (LL)

Legend

B157

B158

Wiring diagram no. 81.99192.1432 Sheet 1 of 1 Change status: 05.01

A = Active aerial, radio

B = Loudspeaker

A100 A155 A302 A408 A569	(182) (352) (403)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Tachograph Radio navigation device RNS 3
B 141 B142 B143 B144	(296) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right

(298) Driver's loudspeaker, front left

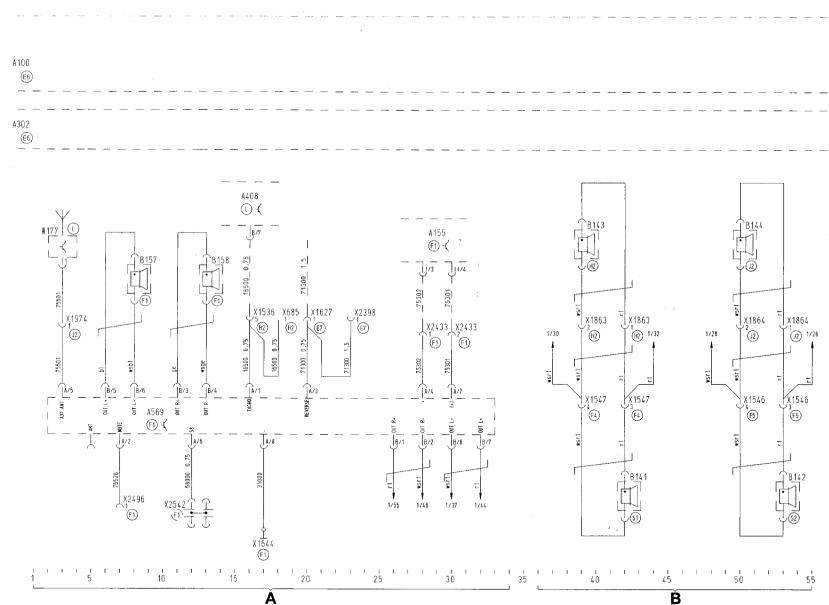
(298) Driver's loudspeaker, front right

W 177	(171)	Combination aerial
X 685		Stvd. line 16500
X1536		Stvd. cab tachograph
X1546		Stvd. door, right
X1547		Stvd. door, left
X1627		Stvd. reversing beam
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X1974		Stvd. for active aerial
X2398		Stvd. adaptation reversing light
X2433		Stvd. adaptation 12V radio
X2496		Adaptation mute signal lane guard
X2542	(246)	Potential distributor, 21-pin line 58000

- A Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1432 Sheet 1 of 1



Radio navigation system 12V (RL)

Legend

Wiring diagram no. **81.99192.1433** Sheet **1** of 1 Change status: 05.01

A = Active aerial, radio

B = Loudspeaker

A100 A155 A302 A408 A569	(182) (352) (403)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Tachograph Radio navigation device RNS 3
B 141 B142 B143 B144 B157 B158	(296) (297) (297) (298)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Driver's loudspeaker, front left Driver's loudspeaker, front right

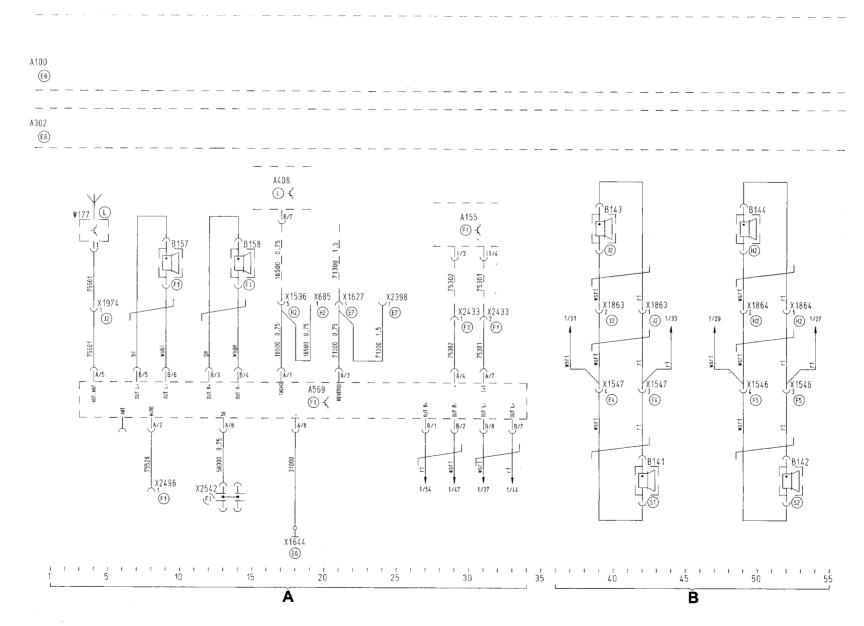
W177 (171) Combination aerial

X 685	Stvd. line 16500
X1536	Stvd. cab tachograph
X1546	Stvd. door, right
X1547	Stvd. door, left
X1627	Stvd. reversing beam
X1644	Earthing point, cab, adjacent to central fuse,
	relay and terminal block
X1863	Stvd. loudspeaker, left
X1864	Stvd. loudspeaker, right
X1974	Stvd. for active aerial
X2398	Stvd. adaptation reversing light
X2433	Stvd. adaptation 12V radio
X2496	Adaptation mute signal lane guard
X2542	(246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1433 Sheet 1 of 1



Radio navigation system 12V with CD changer (LL)

(255) Central fuse, relay and terminal block

(182) Voltage transformer 24V/12V

Legend

A100

A155

X2496

Wiring diagram no. 81.99192.1434 Sheet 1 of 1 Change status: 05.01

A = Active aerial, radio, CD changer

B = Loudspeaker

A302 A408 A568 A569	(403) (546)	Central computer 2 Tachograph CD changer Radio navigation device RNS 3
B141 B142 B143 B144 B157 B158	(296) (297) (297) (298)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Driver's loudspeaker, front left Driver's loudspeaker, front right
W 177	(171)	Combination aerial
X685 X1536 X1546 X1547 X1627 X1644		Stvd. line 16500 Stvd. cab tachograph Stvd. door, right Stvd. door, left Stvd. reversing beam Earthing point, cab, adjacent to central fuse, relay and terminal block
X1863 X1864 X1974 X2398 X2433		Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. for active aerial Stvd. adaptation reversing light Stvd. adaptation 12V radio

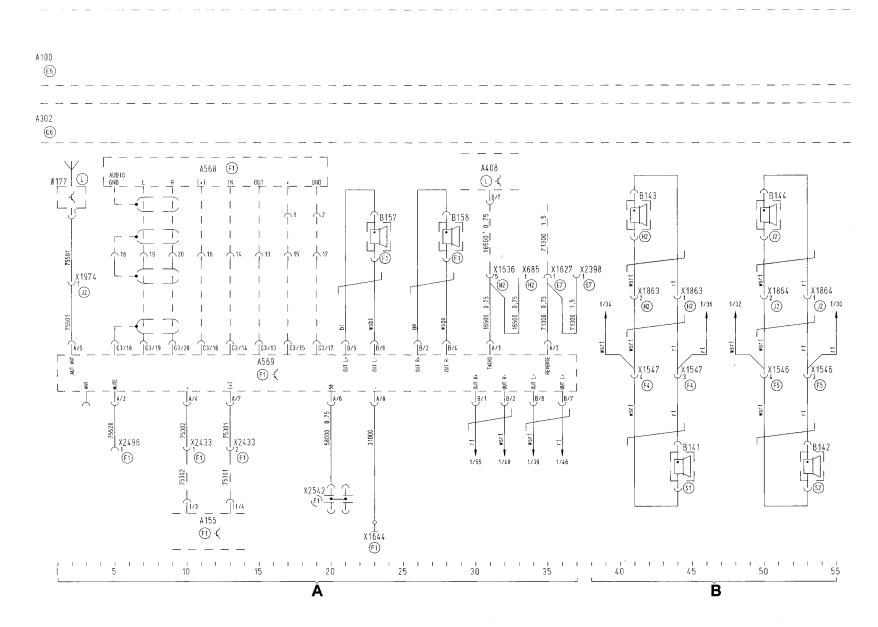
Adaptation mute signal lane guard

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1434 Sheet 1 of 1



Radio navigation system 12V with CD changer (RL)

Legend

Wiring diagram no. **81.99192.1435** Sheet **1** of 1 Change status: 05.01

A = Active aerial, radio, CD changer

B = Loudspeaker

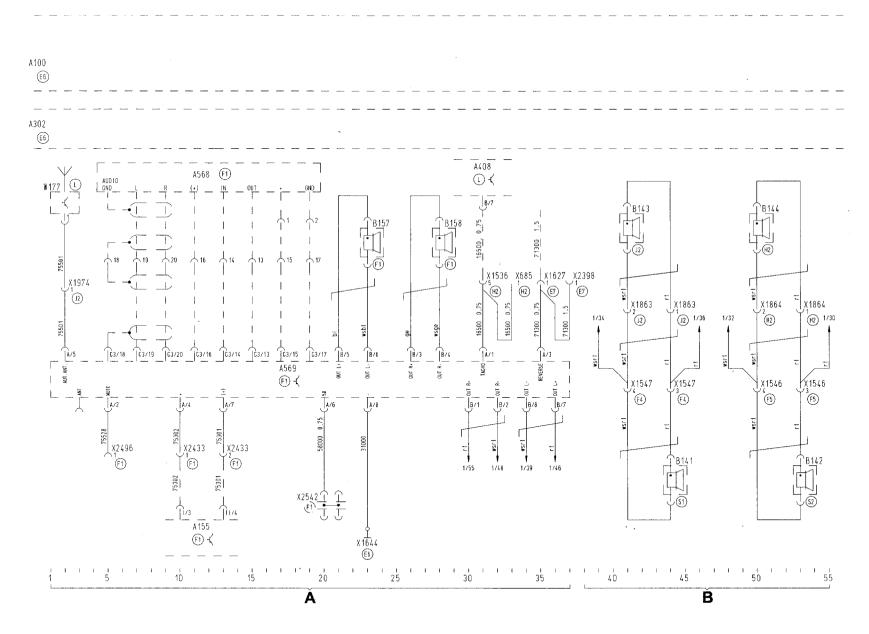
A155 (A302 (A408 (A568 ((182) (352) (403) (546)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Tachograph CD changer Radio navigation device RNS 3
B142 (B143 (B144 (B157 ((296) (297) (297) (298)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Driver's loudspeaker, front left Driver's loudspeaker, front right

W 177 (171)	Combination aerial
X 685	Stvd. line 16500
X1536	Stvd. cab tachograph
X1546	Stvd. door, right
X1547	Stvd. door, left
X1627	Stvd. reversing beam
X1644	Earthing point, cab, adjacent to central fuse
	relay and terminal block
X1863	Stvd. loudspeaker, left
X1864	Stvd. loudspeaker, right
X1974	Stvd. for active aerial
X2398	Stvd. adaptation reversing light
X2433	Stvd. adaptation 12V radio
X2496	Adaptation mute signal lane guard
X2542 (246	Potential distributor, 21-pin line 58000

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1435 Sheet 1 of 1



Radio navigation system 12V with Cullmann phone (LL)

Legend

Wiring diagram no. **81.99192.1436** Sheet **1** of 2 Change status: 05.01

A100 (255) Central fuse relay and terminal block

A = Active aerial

B = Radio navigation system

A148 A302 A408 A569	(388) (352) (403)	Radio/cassette player Central computer 2 Tachograph Radio navigation device RNS 3
B 158 B496		Driver's loudspeaker, front right Cab loudspeaker, left, with hand-free telephone
W 177	(171)	Combination aerial
X 685 X1536 X1627 X1644		Stvd. line 16500 Stvd. cab tachograph Stvd. reversing beam Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974 X2398 X2496		Stvd. for active aerial Stvd. adaptation reversing light Adaptation mute signal lane guard

X2542 (246) Potential distributor, 21-pin line 58000

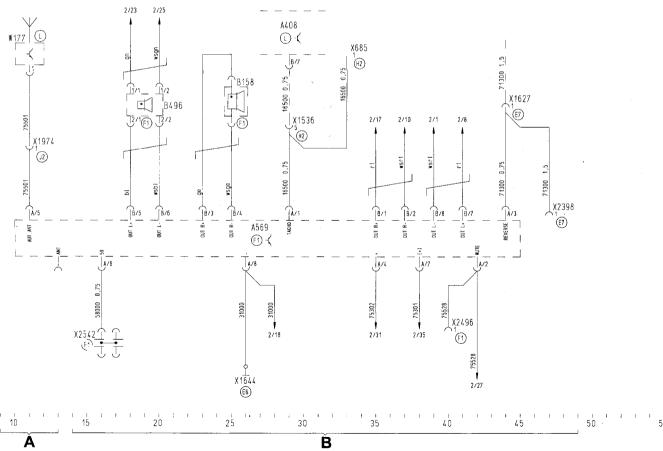
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1436 Sheet 1 of 2

A100 (EB)

A302 (E6)



Radio navigation system 12V with Cullmann phone (LL)

Legend

Wiring diagram no. **81.99192.1436** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Cullmann telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189	(296) (297) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door right Stvd. door left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

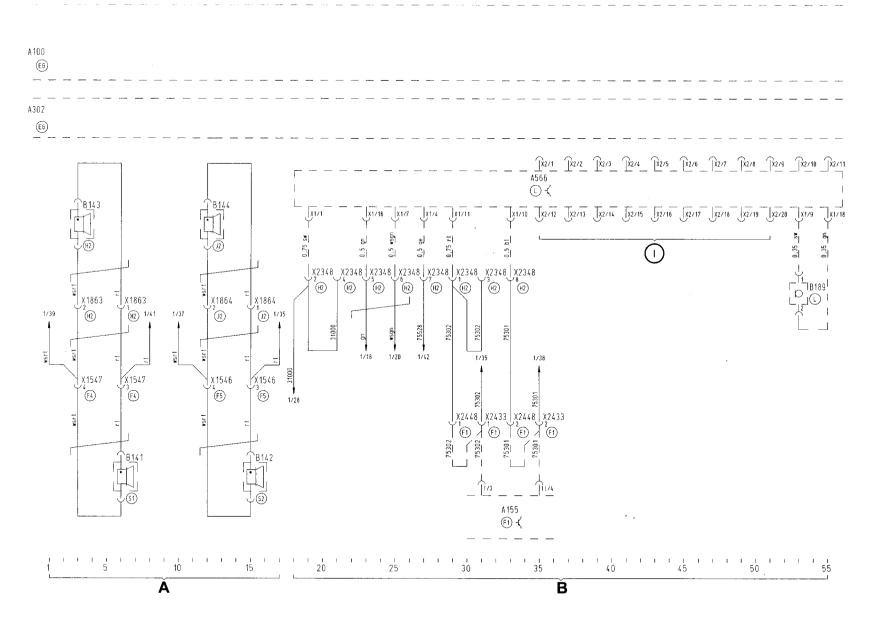
Marking of mounting positions

- (A) Tail
- ^(B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- Front wall, inside left
- Font wall, inside right
- Mobile phone interface

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- ①1 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

4.18 - 34

Wiring diagram no. 81.99192.1436 Sheet 2 of 2



Radio navigation system 12V with Cullmann phone (RL)

Legend

X2496

Wiring diagram no. **81.99192.1437** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation system

A 100 A148 A302	(388)	Central fuse, relay and terminal block Radio/cassette player Central computer 2
A408 A569	(403)	Tachograph Radio navigation device RNS 3
B 157 B498		Driver's loudspeaker, front left Cab loudspeaker, right, with hand-free telephone
W 177	(171)	Combination aerial
X 685		Stvd. line 16500
X1536		Stvd. cab tachograph
X1627		Stvd. reversing beam
X1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974		Stvd. for active aerial
X2398		Stvd. adaptation reversing light

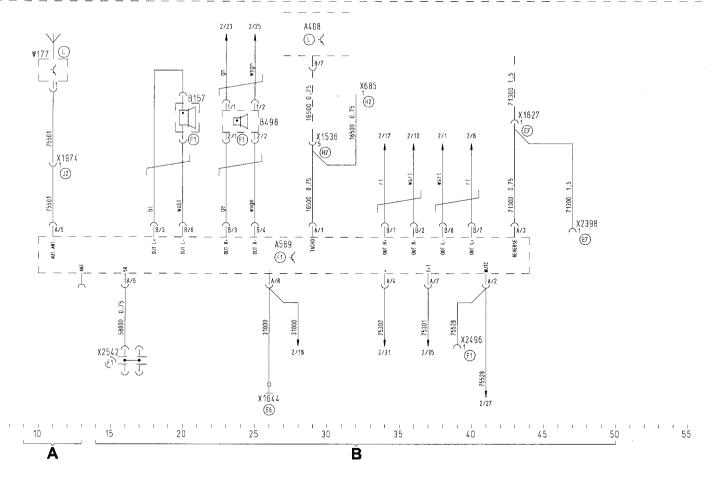
Adaptation mute signal lane guard

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3) Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1437 Sheet 1 of 2



Radio navigation system 12V with Cullmann phone (RL)

Legend

Wiring diagram no. **81.99192.1437** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Cullmann telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B 141 B142 B143 B144	(296) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right
B189	(345)	Microphone for hands-free telephone
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

- (A) Tail
- ^{®1} Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Mobile phone interface

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1437 Sheet 2 of 2 A100 A302 (E6) TX1/10 TX2/12 TX2/13 TX2/14 TX2/15 TX2/16 TX2/17 TX2/18 TX2/19 TX2/20 TX1/9 TX1/18 X1863 X1863 X1864 X1864 12 1/40 H2 1/34 X1547 X1546 (F5) X1546 | X2448 | X2433 | X24438 | X2433 | X24438 | X2433 | X24438 | X2433 | X2448 | X2433 | X24438 | X2448 75301 A155 €1) -{ 1 5 10 15 20 25 30 35 40 45 50 55

7.

Radio navigation system 12V with Nokia phone (LL)

Legend

Wiring diagram no. **81.99192.1438** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation system

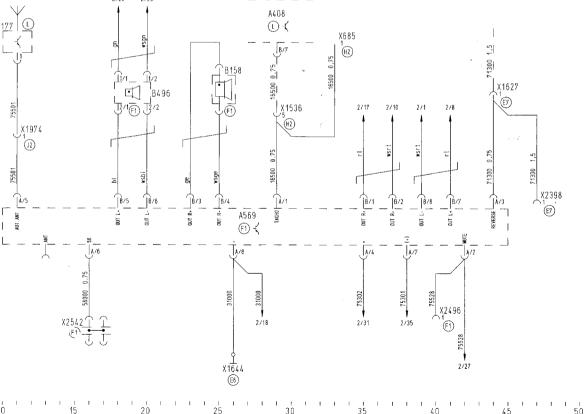
A 100 A302 A408 A569	(352) (403)	Central fuse, relay and terminal block Central computer 2 Tachograph Radio navigation device RNS 3
B 158 B496		Driver's loudspeaker, front right Cab loudspeaker, left, with hand-free telephone
W 177	(171)	Combination aerial
X 685		Stvd. line 16500

X 685	Stvd. line 16500	
X1536	Stvd. cab tachograph	
X1627	Stvd. reversing beam	
X1644	Earthing point, cab, adjacent to	central fuse,
	relay and terminal block	
X1974	Stvd. for active aerial	
X2398	Stvd. adaptation reversing light	
X2496	Adaptation mute signal lane gu	ard
X2542	(246) Potential distributor, 21-pin line	58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1438 Sheet 1 of 2



Radio navigation system 12V with Nokia phone (LL)

Legend

X2448

Wiring diagram no. **81.99192.1438** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Nokia telephone

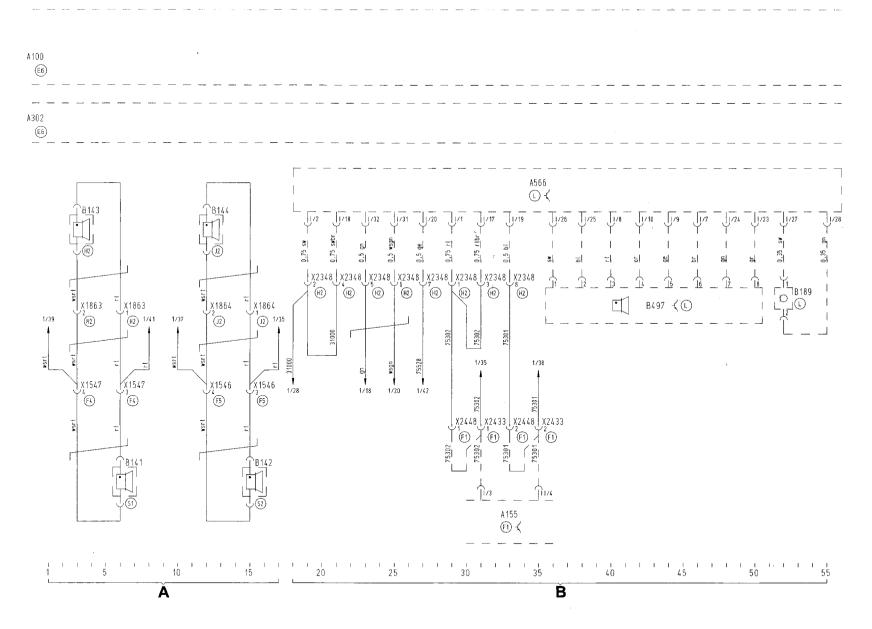
A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2433		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio

Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- ② A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1438 Sheet 2 of 2



Radio navigation system 12V with Nokia phone (RL)

Legend

Wiring diagram no. **81.99192.1439** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation system

A 100 A302 A408 A569	(255) Central fuse, relay and terminal block(352) Central computer 2(403) Tachograph(547) Radio navigation device RNS 3
B 157 B498	(298) Driver's loudspeaker, front left (344) Cab loudspeaker, right, with hand-free telephone
W 177	(171) Combination aerial

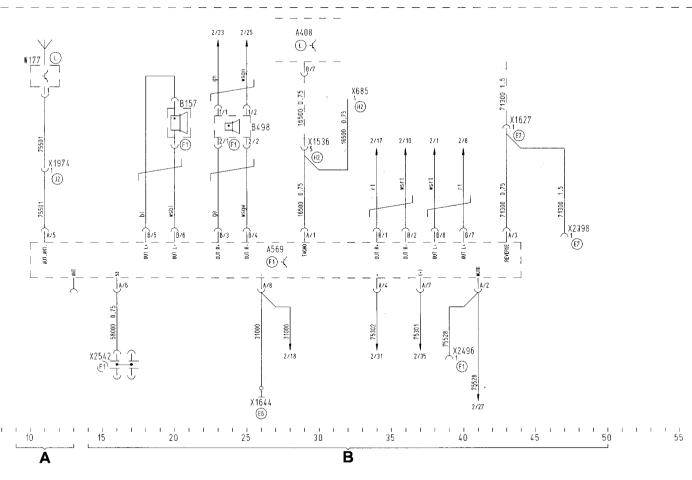
X 685	Stvd. line 16500
X1536	Stvd. cab tachograph
X1627	Stvd. reversing beam
X1644	Earthing point, cab, adjacent to central fuse,
	relay and terminal block
X1974	Stvd. for active aerial
X2398	Stvd. adaptation reversing light
X2496	Adaptation mute signal lane guard
X2542	(246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- f Instrument panel
- (F) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.1439** Sheet **1** of 2





Radio navigation system 12V with Nokia phone (RL)

Legend

Wiring diagram no. **81.99192.1439** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141		Loudspeaker 1, door left
B142		Loudspeaker 1, door right
B143	,	Loudspeaker 2, door left
B144	,	Loudspeaker 2, door right
B189	, ,	Microphone for hands-free telephone
B497	(346)	Telephone receiver
Y . = . 0		0. 1. 1
X 1546		Stvd. door right
X1547		Stvd. door left
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X2348		Stvd. telephone
X2433		Stvd. adaptation 12V radio
X2448		Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1439 Sheet 2 of 2 A100 (E6) | X2348 | X234 X1864 H2 J2 1/40 H2 1/34 X1546 X2448 X2433 X2448 X2433

| fr) | fi) | fi) | fi) | fiv A155 €1) -

Radio navigation system 12V with Cullmann phone and CD changer (LL)

Legend

X685

Wiring diagram no. **81.99192.1440** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation, CD changer

A100 A148 A302 A408 A568 A569	 (255) Central fuse, relay and terminal block (388) Radio/cassette player (352) Central computer 2 (403) Tachograph (546) CD changer (547) Radio navigation device RNS 3
B 158 B496	(298) Driver's loudspeaker, front right (344) Cab loudspeaker, left, with hands-free telephone
W 177	(171) Combination aerial

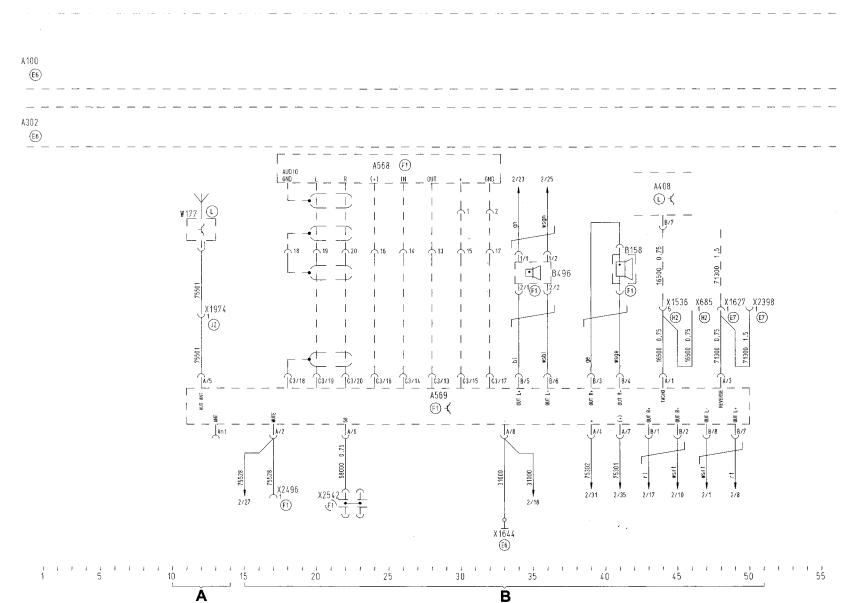
X1536	Stvd. cab tachograph
X1627	Stvd. reversing beam
X1644	Earthing point, cab, adjacent to central fuse,
	relay and terminal block
X1974	Stvd. for active aerial
X2398	Stvd. adaptation reversing light
X2496	Adaptation mute signal lane guard
X2542	(246) Potential distributor, 21-pin line 58000

Stvd. line 16500

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- H) B-pillar on driver's side
- H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1440 Sheet 1 of 2



Radio navigation system 12V with Cullmann phone and CD changer (LL)

Legend

Wiring diagram no. **81.99192.1440** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Cullmann telephone

A100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189	(296) (297) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Mobile phone interface

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Wiring diagram no. 81.99192.1440 Sheet 2 of 2 A100 (E6) TX1/10 TX2/12 TX2/13 TX2/14 TX2/15 TX2/16 TX2/17 TX2/18 TX2/19 TX2/20 X1/9 TX1/18 | X2348 | X234 X1863 X1863 X1864 X1864 1 H2 1/49 12 J2 1/43 X1546 X1547 F (F5) | X2448 | X2433 | X243 A155 (F1) -⟨

Radio navigation system 12V with Cullmann phone and CD changer (RL)

Legend

X2496

Wiring diagram no. **81.99192.1441** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation, CD changer

A100 A148 A302 A408 A568 A569	(388) (352) (403) (546)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 Tachograph CD changer Radio navigation device RNS 3
B 157 B498		Driver's loudspeaker, front left Cab loudspeaker, right, with hand-free telephone
W 177	(171)	Combination aerial
X 685 X1536 X1627 X1644		Stvd. line 16500 Stvd. cab tachograph Stvd. reversing beam Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974 X2398		Stvd. for active aerial Stvd. adaptation reversing light

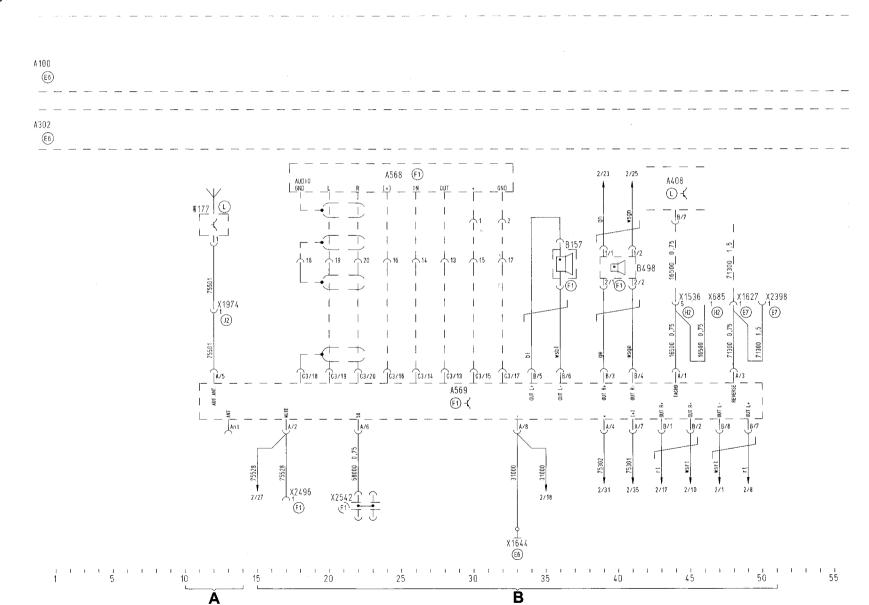
Adaptation mute signal lane guard

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1441 Sheet 1 of 2



Radio navigation system 12V with Cullmann phone and CD changer (RL)

Legend

Wiring diagram no. **81.99192.1441** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Cullmann telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189	(296) (297) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door right Stvd. door left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- Mobile phone interface

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- ®1 Front part of frame
- Rear part of frame
- S1 Door left
- © Door right

Wiring diagram no. 81.99192.1441 Sheet 2 of 2 A100 TX1/10 TX2/12 TX2/13 TX2/14 TX2/15 TX2/16 TX2/17 TX2/18 TX2/19 TX2/20 TX1/9 TX1/18 X1863 X1863 X1864 X1864 J2 1/49 1/45 (H2) H2 1/43 X1546 X1546 X1547 X 1547 | X2448 | X2433 | X2443 | X2433 | X2443 | X2433 | X2443 | X2433 | X2443 | X2433 | X243 75302 A155 €1) **≺**

Radio navigation system 12V with Nokia phone and CD changer (LL)

Legend

X1974

X2398

X2496

Wiring diagram no. **81.99192.1442** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation, CD changer

A100 A148 A302 A408 A568 A569	(388) (352) (403) (546)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 Tachograph CD changer Radio navigation device RNS 3
B 158 B496		Driver's loudspeaker, front right Cab loudspeaker, left, with hands-free telephone
W 177	(171)	Combination aerial
X 685 X1536 X1627 X1644		Stvd. line 16500 Stvd. cab tachograph Stvd. reversing beam Earthing point, cab, adjacent to central fuse, relay and terminal block

Stvd. for active aerial

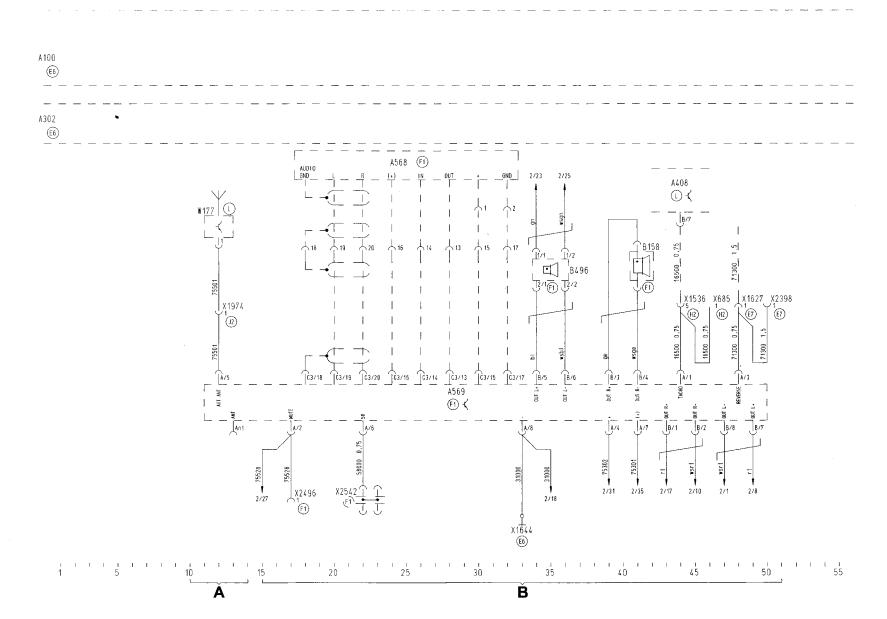
X2542 (246) Potential distributor, 21-pin line 58000

Stvd. adaptation reversing light Adaptation mute signal lane guard

- (A) Tail
- B1) Engine
- ®2 Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- (F3) Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. 81.99192.1442 Sheet 1 of 2



Radio navigation system 12V with Nokia phone and CD changer (LL)

Legend

Wiring diagram no. **81.99192.1442** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door right Stvd. door left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

- (A) Tail
- ®1) Engine
- ®2 Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J1 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1442 Sheet 2 of 2 A100 A302 (E6) X1863 X1864 X1863 X1864 1 H2 1/49 J2 1/43 X1547 X1546 1/36 1/15 ′4 (F5) ′³ [F4] 75301 75301 A155 €1) ≺

K 90

4.18 - 59

Radio navigation system 12V with Nokia phone and CD changer (RL)

Legend

X2398

X2496

Wiring diagram no. **81.99192.1443** Sheet **1** of 2 Change status: 05.01

A = Active aerial

B = Radio navigation, CD changer

A100 A148 A302 A408 A568 A569	(388) (352) (403) (546)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 Tachograph CD changer Radio navigation device RNS 3
B 157 B498		Driver's loudspeaker, front left Cab loudspeaker, right, with hand-free telephone
W 177	(171)	Combination aerial
X 685 X1536 X1627 X1644		Stvd. line 16500 Stvd. cab tachograph Stvd. reversing beam Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974		Stvd. for active aerial

Stvd. adaptation reversing light

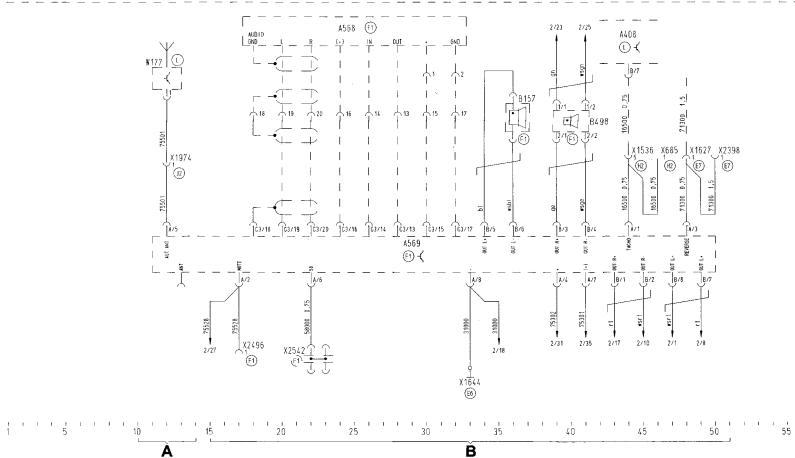
X2542 (246) Potential distributor, 21-pin line 58000

Adaptation mute signal lane guard

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1443 Sheet 1 of 2



Radio navigation system 12V with Nokia phone and CD changer (RL)

Legend

Wiring diagram no. **81.99192.1443** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2433 X2448		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V radio Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1443 Sheet 2 of 2 A100 A302 (E6) A566 € +< ¥ X1863 X1863 X1864 X1864 J2 1/49 1/45 H2 1/43 X1546 (F5) X 1546 1/39 1/41 1/15 | X2448 | X2433 | X2433 | X243 A 155 (F1) ≺ B

4.18 - 63

Retarder/intarder, automatic

Legend

Wiring diagram no. **81.99192.1372** Sheet **1** of 1 Change status: 05.01

A = Retarder/intarder, automatic

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A403 (339) Vehicle management computer

S479 (476) Switch, additional retarding brake off

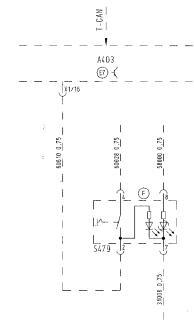
- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- §2 Door right

Wiring diagram no. 81.99192.1372 Sheet 1 of 1

A100 (5)

<u>(E6)</u>



Retarder VOITH DIGIPROP (CAN)

Legend

Wiring diagram no. **81.99192.1410** Sheet **1** of 1 Change status: 05.01

A = Additional retarding brake pushbutton switch

B = Pressure pickup

C = Temperature sensor

D = Solenoid valve

E = Diagnosis

X1559

X1575

X1644

X1948

X1949

F = Power supply

A100 A144 A302 A403 A407 A437	(374) (352) (339) (342)	Central fuse, relay and terminal block Control unit, retarder Central computer 2 Vehicle management computer Instrumentation Additional retarding brake pushbutton switch
B 134 B188 B435	(208)	Temperature sensor, retarder (cooling water) Temperature pickup, retarder (oil) Pressure pickup, retarder, positioning pressure
F 152	(101)	Fuse, retarder
H 145		Indicator light, retarder
X 1549 X1553		Stvd. engine/EDC/transmission I Stvd. engine/EDC/transmission III

Stvd. engine/EDC/transmission IV

Stvd. engine/transmission (MP box)

Stvd. engine/transmission (MP box)

relay and terminal block

Stvd. temperature sensor, retarder (water, oil)

Earthing point, cab, adjacent to central fuse,

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- (F) Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals

X1951

X1969

- F4 Front wall, inside left
- F5 Front wall, inside right

Stvd. engine/transmission (MP box)

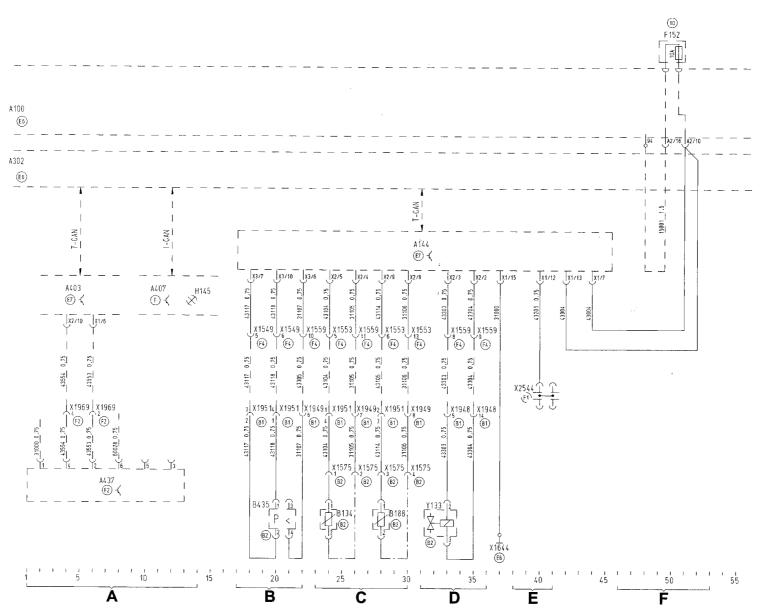
Stvd. engine brake switch

X2544 (246) Potential distributor 21-pin K-line

Y133 (182) Proportioning valve, retarder

- F6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1410 Sheet 1 of 1



Retarder, hydroretarder (CAN)

Legend

X1969

X2006

Wiring diagram no. 81.99192.1411 Sheet 1 of 1 Change status: 05.01

A = Additional retarding brake pushbutton switch

B = Pressure pickup

C = Temperature sensor

D = Solenoid valve

E = Pressure pickup

F = Power supply		
A100 A144 A302 A403 A407 A437	 (255) Central fuse, relay and terminal block (567) Control unit, retarder (352) Central computer 2 (339) Vehicle management computer (342) Instrumentation (398) Additional retarding brake pushbutton switch 	
B 134 B373 B435 B505	(352) Temperature sensor, retarder (cooling water)(352) Temperature sensor, retarder (cooling water)(291) Pressure pickup, retarder, housing pressure(291) Pressure pickup, retarder, positioning pressure	
F 152	(101) Fuse retarder (terminal 15)	
H 145	Indicator light, retarder	

X1549 Stvd. engine/EDC/transmission I Stvd. engine/EDC/transmission II X1551 Stvd. engine/EDC/transmission III X1553 X1575 Stvd. temperature sensor, retarder (water, oil) Earthing point, cab, adjacent to central fuse, X1644 relay and terminal block Stvd. engine/transmission (MP box) X1951

Stvd. engine brake switch

Stvd. cab/solenoid valves, right

Marking of mounting positions

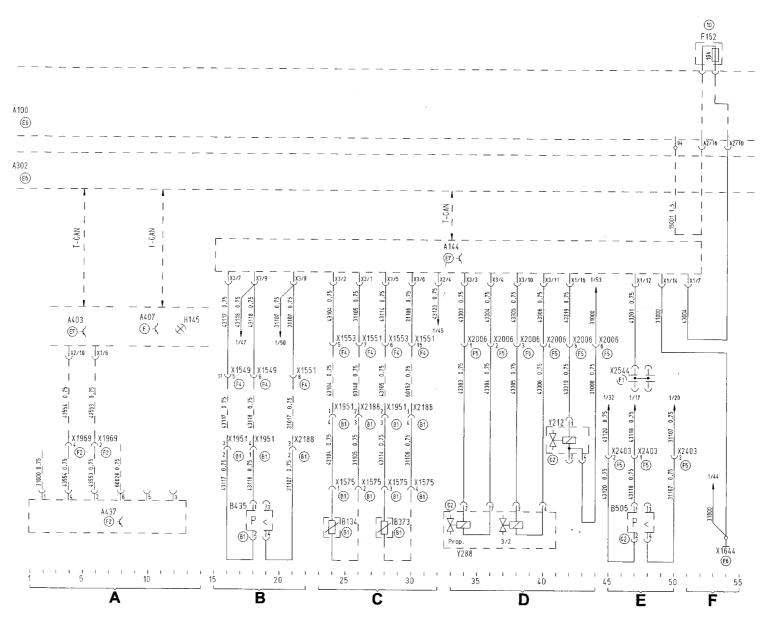
	Tail
$(^{\Lambda})$	ı aı

- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- (F) Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- F3 Foot pedals

X2188

- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Reversing stop

Legend

Wiring diagram no. **81.99192.1409** Sheet **1** of 1 Change status: 05.01

A = Reversing inhibitor with/without start-stop on engine and frame end

A100		Central fuse, relay and terminal block
A302		Central computer 2
A312	(397)	Customer-specific control module
A403	(339)	Vehicle management computer
X 679		Stvd. start-stop device
X1551		Stvd. engine/EDC/transmission II
X1693		Crimped connector, line 60028
X1996		Stvd. intermediate speed control interface (FFR)
X1997		Stvd. intermediate speed control interface (KSM)
X2541	(246)	Potential distributor, 21-pin line 31000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- ©2 Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope, body manufacturers
- Earthing from foot contact

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1409 Sheet 1 of 1 A100 A302 (E6) T-CAN A403 €7 -{ A312 €7) -{ X1693 F1 S X679 (85) X679 (85) ´(F5)

1 5 10 15 20 25 30 35 40 45 50 55

All-round marker light 1 on roof

Legend

Wiring diagram no. **81.99192.1412** Sheet **1** of 1 Change status: 05.01

A = All-round marker light 1 on roof

A302	(352)	Central computer 2 Control device, all-round marker light
E 196	(183)	All-round marker light (passenger side)
F 188	(118)	Fuse, all-round marker light
S 227	(554)	Switch, all-round marker light

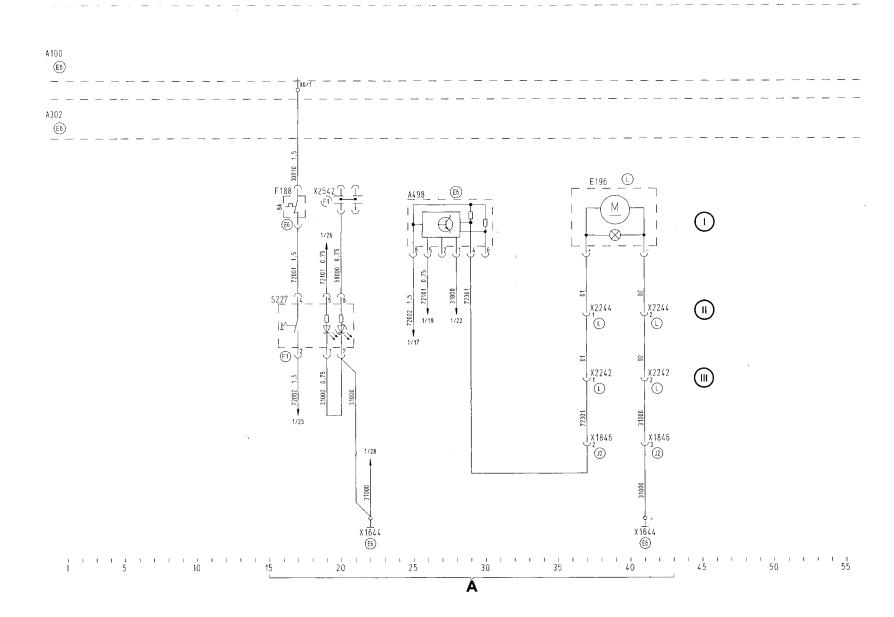
A100 (255) Central fuse relay and terminal block

S 227	(554)	Switch, all-round marker light
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1846 X2242 X2244 X2542	(246)	Stvd. all-round marker light Stvd. cable duct, all-round marker light, right Stvd. base/stand, all-round marker light, right Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ① Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- All-round marker light, left **E197** or right **E196**
- All-round marker light, left X2245
- All-round marker light, left **X2243**

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1412 Sheet 1 of 1



All-round marker light 2 on roof

Legend

Wiring diagram no. **81.99192.1413** Sheet **1** of 1 Change status: 05.01

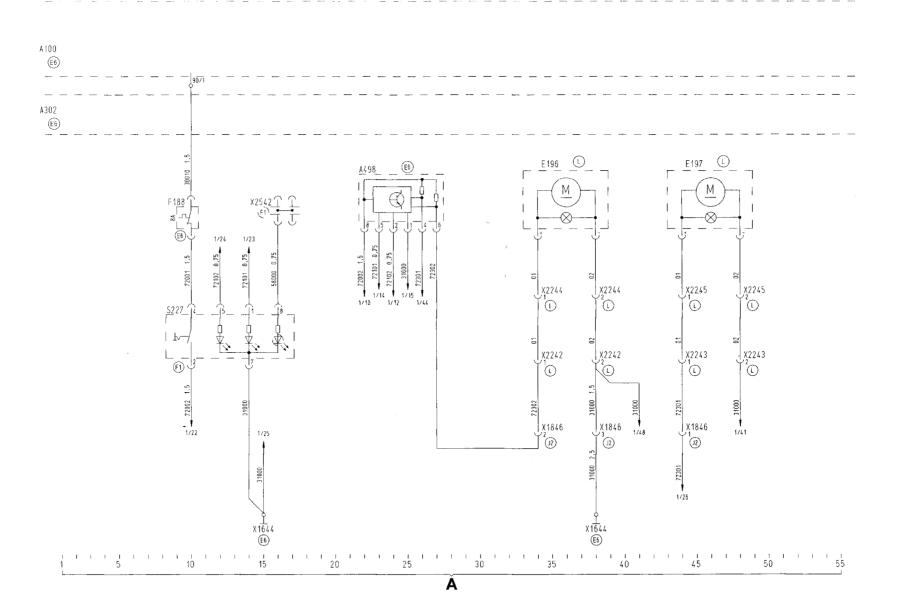
A = All-round marker lights 2 on roof

A 100 A302 A498	(352)	Central fuse, relay and terminal block Central computer 2 Control device, all-round marker light
E 196 E197		All-round marker light (passenger side) All-round marker light (driver's side)
F 188	(118)	Fuse, all-round marker light
S 227	(557)	Switch, all-round marker light
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1846		Stvd. all-round marker light
X2242		Stvd. cable duct, all-round marker light, right
X2243		Stvd. cable duct, all-round marker light, left
X2244		Stvd. base/stand, all-round marker light, right
X2245		Stvd. base/stand, all-round marker light, left
X2542	(246)	Potential distributor, 21-pin line 58000

- (A) Tail
- B1 Engine
- Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- (N) Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1413 Sheet 1 of 1



All-round marker light 2 on stand

Legend

Wiring diagram no. **81.99192.1414** Sheet **1** of 1 Change status: 05.01

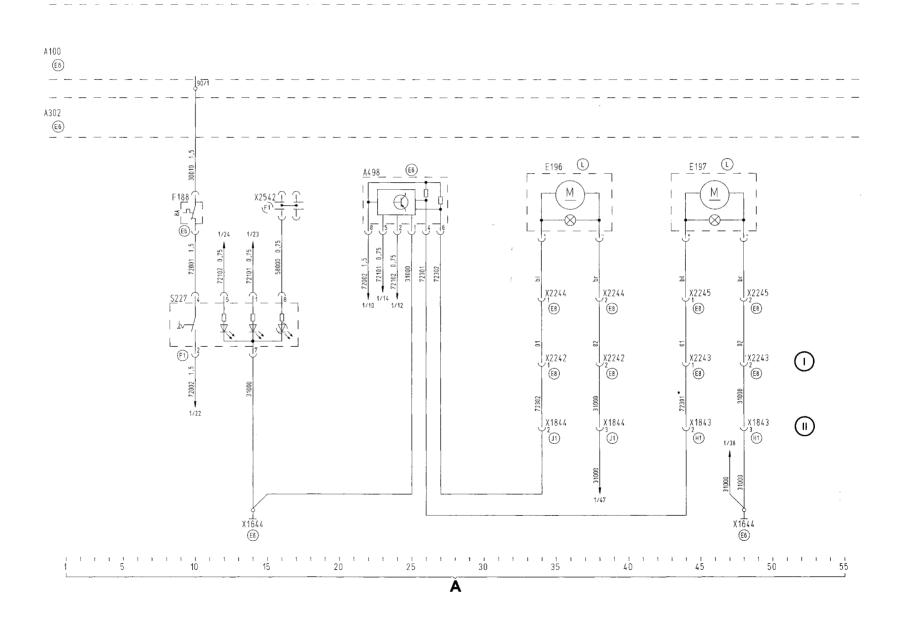
A = All-round marker lights 2 on stand

A 100 A302 A498	(352)	Central fuse, relay and terminal block Central computer 2 Control device, all-round marker light
E 196 E197		All-round marker light (passenger side) All-round marker light (driver's side)
F 188	(118)	Fuse, all-round marker light
S 227	(557)	Switch, all-round marker light
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1843		Stvd. all-round marker light, B-pillar, left
X1844		Stvd. all-round marker light, B-pillar, right
X2242		Stvd. cable duct, all-round marker light, right
X2243		Stvd. cable duct, all-round marker light, left
X2244		Stvd. base/stand, all-round marker light, right
X2245		Stvd. base/stand, all-round marker light, left
		Potential distributor, 21-pin line 58000

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2 Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- Rear wall of cab
- Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- on the short cab, line 72302 to left and right
- (II) X1844 on RL H1 X1843 on RL J1

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1414 Sheet 1 of 1



All-round marker light, left, on stand

Legend

Wiring diagram no. **81.99192.1416** Sheet **1** of 1 Change status: 05.01

A = All-round marker lights, left, on stand

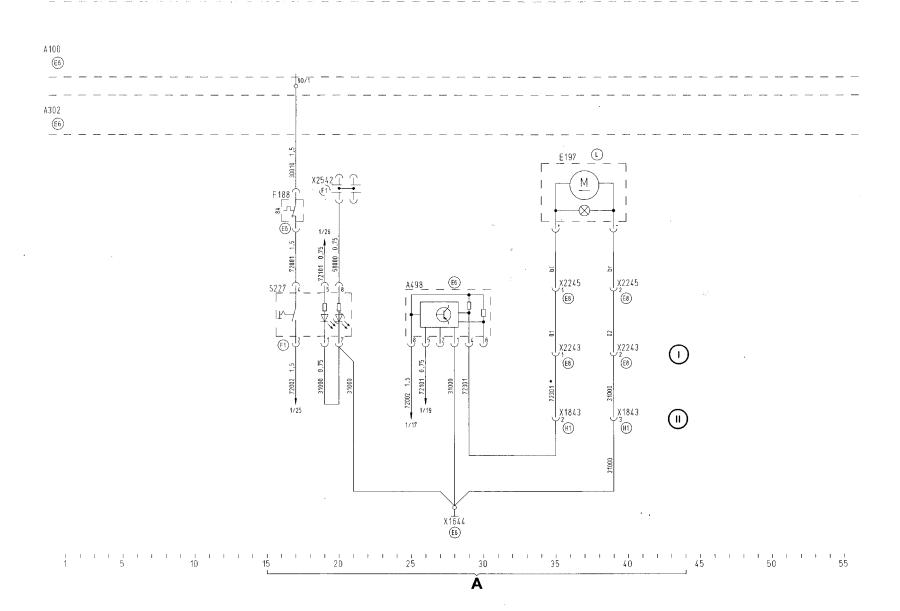
A 100 A302 A498	(352)	Central fuse, relay and terminal block Central computer 2 Control device, all-round marker light
E 197	(183)	All-round marker light (driver's side)
F 188	(118)	Fuse, all-round marker light
S 227	(554)	Switch, all-round marker light
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1843		Stvd. all-round marker light, B-pillar, left
X2243		Stvd. cable duct, all-round marker light, left
X2245		Stvd. base/stand, all-round marker light, left

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- () on the short cab, line 72302
- (II) X1843 on RL J1

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1416 Sheet 1 of 1



All-round marker light, right, on stand

Legend

Wiring diagram no. **81.99192.1415** Sheet **1** of 1 Change status: 05.01

A = All-round marker light, right, on stand

A 100	(255)	Central fuse, relay and terminal block
A302	(352)	Central computer 2
A498	(516)	Control device, all-round marker light

E196 (183) All-round marker light (passenger side)

F188 (118) Fuse, all-round marker light

\$227 (554) Switch, all-round marker light

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

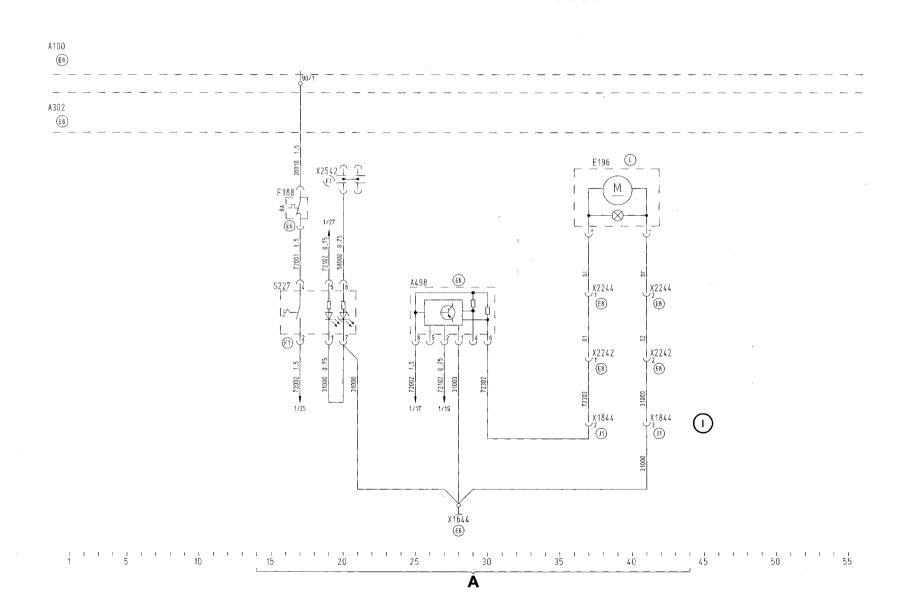
X1844 Stvd. all-round marker light, B-pillar, right X2242 Stvd. cable duct, all-round marker light, right X2244 Stvd. base/stand, all-round marker light, right

X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right
- 1 X1844 on RL H1

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- 3 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. 81.99192.1415 Sheet 1 of 1



K 90 4.19 - 1

Headlight gas discharge with headlight levelling (LL)

Legend

Wiring diagram no. **81.99192.2651** Sheet **1** of 1 Change status: 04.99

A = Height sensor, front axle

B = Headlight, left

C = Headlight levelling

D = Headlight, right

A 100	(255)	Central fuse, relay and terminal block
		and the state of t

- A187 (493) Headlights, left
- A188 (494) Headlights, right
- A302 (352) Central computer 2

B509 (311) Height sensor, front axle, left

E 108	Parking	light,	right
E 4 0 0	D 11	12 1 4	1 1

- E109 Parking light, left
 E110 Dipped beam, right
- E111 Dipped beam, left
- E112 Main beam, right
- E113 Main beam, left
- F117 (101) Fuse, parking tail light, left
- F118 (101) Fuse, parking tail light, right
- K116 (187) Relay, parking tail light
- M117 (A493) Actuator motor, headlight levelling, left
- M118 (A494) Actuator motor, headlight levelling, right

R109 Positioning potentiometer, headlight levelling

X 1545	Stvd. front region, left
X1550	Styd. front region, right

X1639 Soldered connector, line 16000

X1642 Earthing point, cab, behind instrument panel

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- © Door left
- © Door right

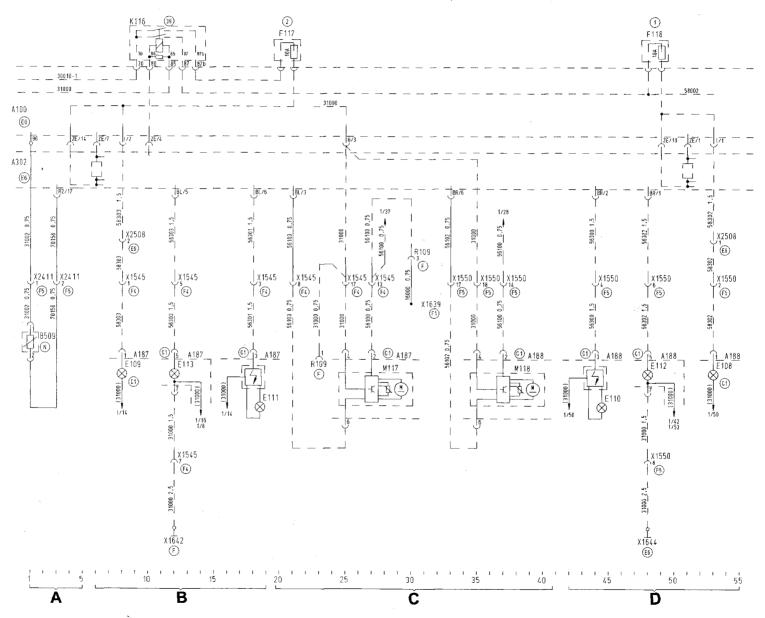
X2411

Stvd. height sensor, front axle, left

X2508

Stvd. adaptation, parking light 2

Wiring diagram no. 81.99192.2651 Sheet 1 of 1



Headlight gas discharge with headlight levelling (RL)

Legend

Wiring diagram no. **81.99192.2653** Sheet **1** of 1 Change status: 04.99

A = Height sensor, front axle

B = Headlight, left

C = Headlight levelling

D = Headlight, right

A 100	(255)	Central	fuse,	relay	and	terminal	block
--------------	-------	---------	-------	-------	-----	----------	-------

A187 (493) Headlights, left

A188 (494) Headlights, right

A302 (352) Central computer 2

B509 (311) Height sensor, front axle, left

E108	Parking	light,	right

E109 Parking light, left

E110 Dipped beam, right

E111 Dipped beam, left

E112 Main beam, right E113 Main beam, left

F117 (101) Fuse, parking tail light, left

F118 (101) Fuse, parking tail light, right

K116 (187) Relay, parking tail light

M117 (A493) Actuator motor, headlight levelling, left

M118 (A494) Actuator motor, headlight levelling, right

R109 Positioning potentiometer, headlight levelling

X1545 Stvd. front region, left X1550 Stvd. front region, right

X1639 Soldered connector, line 16000

X1642 Earthing point, cab, behind instrument panel

Marking of mounting positions

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (B) Control panel
- (G) Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

X1644

Earthing point, cab, adjacent to central fuse, relay and terminal block

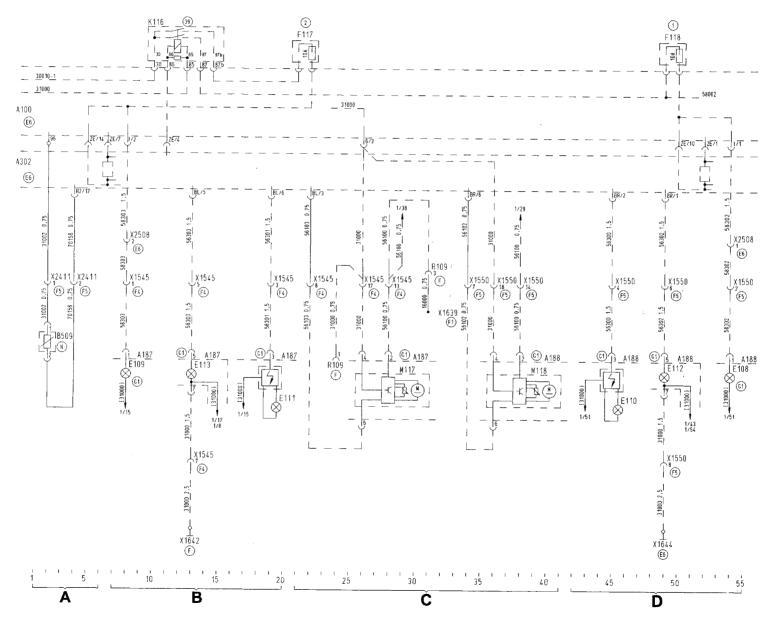
X2411

Stvd. height sensor, front axle, left

X2508

Stvd. adaptation, parking light 2

Wiring diagram no. 81.99192.2653 Sheet 1 of 1



Headlight gas discharge without headlight levelling

Legend

Wiring diagram no. **81.99192.2652** Sheet **1** of 1 Change status: 04.99

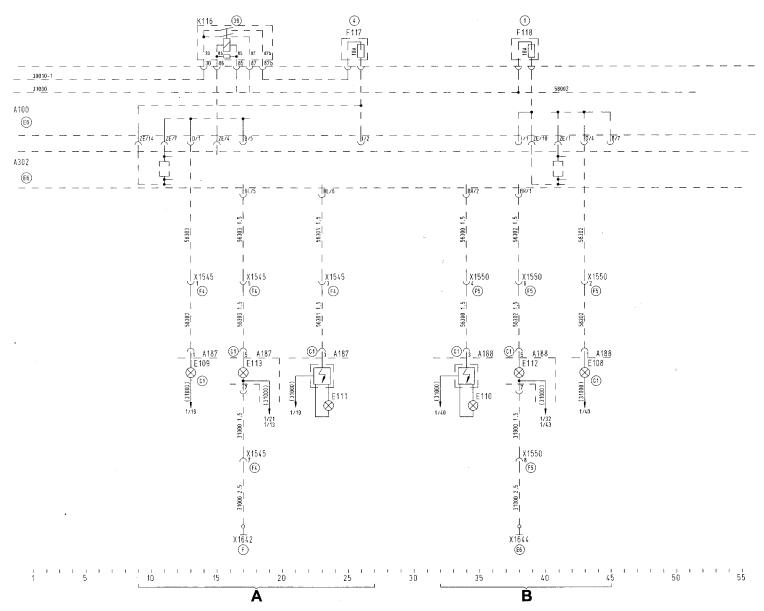
A = Headlight, left B = Headlight, right

A 100 A187 A188 A302	(493) (494)	Central fuse, relay and terminal block Headlights, left Headlights, right Central computer 2
E108 E109 E110 E111 E112 E113		Parking light, right Parking light, left Dipped beam, right Dipped beam, left Main beam, right Main beam, left
F 117 F118		Fuse, parking tail light, left Fuse, parking tail light, right
K 116	(187)	Relay, parking tail light
X1545 X1550 X1642 X1644		Stvd. front region, left Stvd. front region, right Earthing point, cab, behind instrument panel Earthing point, cab, adjacent to central fuse, relay and terminal block

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- (R2) Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2652 Sheet 1 of 1



K 90

Headlight cleaning unit (LL)

Legend

Wiring diagram no. **81.99192.1392** Sheet **1** of 1 Change status: 04.01

A = Headlight cleaning unit

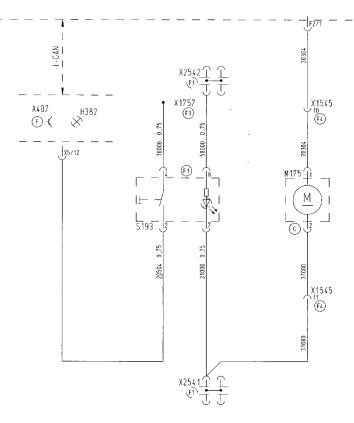
A 100 A302 A407	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation
H 382		Indicator light, level of washing water
M 175	(149)	Washer pump for headlight cleaning unit
S 193	(553)	Control switch, headlight cleaning unit
X1545 X1757 X2541 X2542	(246) (246)	Stvd. front region, left Soldered connector, line 16006 Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- A Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1392 Sheet 1 of 1

N302



1 5 10 15 20 25 30 35 40 45 50 55

Headlight cleaning unit (RL)

Legend

Wiring diagram no. **81.99192.1393** Sheet **1** of 1 Change status: 04.01

A = Headlight cleaning unit

A 100 A302 A407	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation
H 382		Indicator light, level of washing water
M 175	(149)	Washer pump for headlight cleaning unit
S 193	(553)	Control switch, headlight cleaning unit
X1550 X1757 X2541 X2542	(246) (246)	Stvd. front region, right Soldered connector, line 16006 Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1393 Sheet 1 of 1

A100 X1550 A407 F - (\$193

1 5 10 15 20 25 30 35 40 45 50 55

Sunroof (INALFA) (LL)

Legend

Wiring diagram no. **81.99192.1394** Sheet **1** of 1 Change status: 04.01

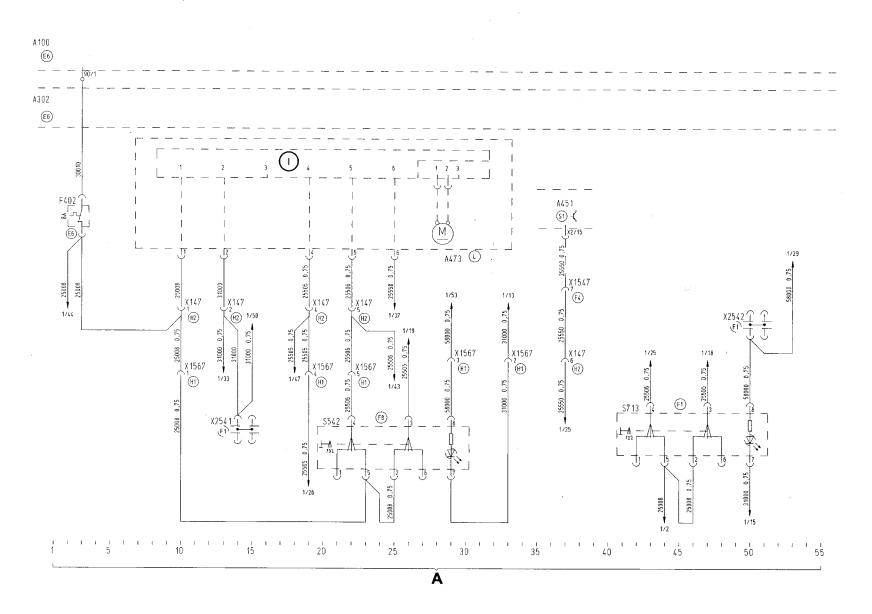
A = Sunroof

A 100 A302 A451 A473	(352) (441)	Central fuse, relay and terminal block Central computer 2 Door module (driver's side) Sunroof
F 402	(118)	Fuse, sunroof
S 542 S713		Control switch, sunroof Control switch, sunroof
X147 X1547 X1567 X2541 X2542		Stvd. sunroof/roof hatch Stvd. door left Stvd. sunroof Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2) Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Sunroof electronics

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- ①1 B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. 81.99192.1394 Sheet 1 of 1



Sunroof (INALFA) (RL)

Legend

X147

X1546

Wiring diagram no. **81.99192.1395** Sheet **1** of 1 Change status: 04.01

A = Sunroof

A302	(255) Central fuse, relay and terminal block (352) Central computer 2 (441) Door module (driver's side) (369) Sunroof
F 402	(118) Fuse, sunroof
S 542 S713	(495) Control switch, sunroof (495) Control switch, sunroof

X1567 Stvd. sunroof X2541 (246) Potential distributor, 21-pin line 31000 X2542 (246) Potential distributor, 21-pin line 58000

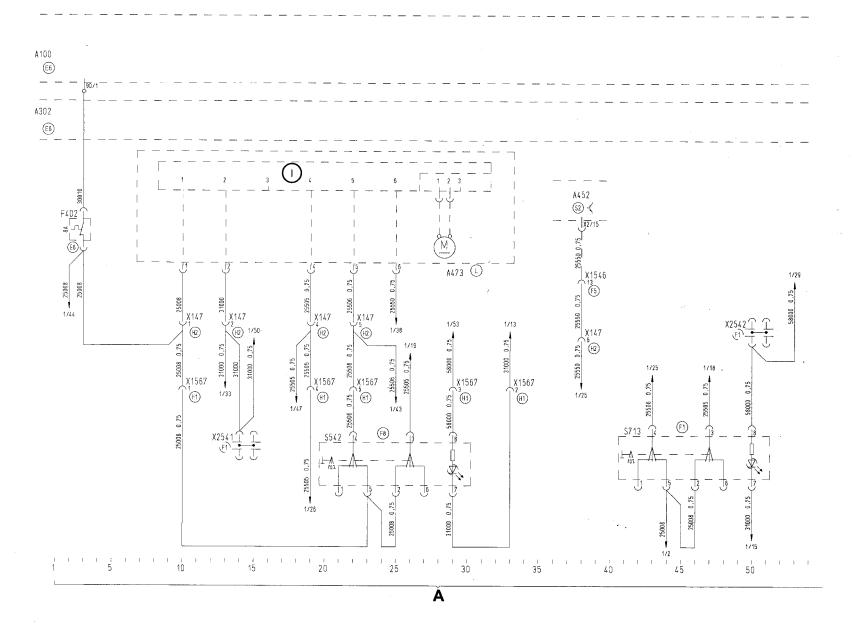
Stvd. door, right

Stvd. sunroof/roof hatch

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- § Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Sunroof electronics

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1395 Sheet 1 of 1



Bunk light, top

Legend

Wiring diagram no. 81.99192.1396 Sheet 1 of 1 Change status: 04.01

A = Bunk light, top

(255) Central fuse, relay and terminal block **A**100

A302 (352) Central computer 2

(173) Lamp, driver's bunk, top **E**292

X1981 Stvd. bunk light, top X2541 (246) Potential distributor, 21-pin line 31000 X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

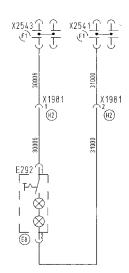
- © Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1396 Sheet 1 of 1

A100 (E6)

A302

<u>(E6)</u>



1 5 10 15 20 25 30 35 40 45 50 55

K 90

Bunk light, bottom (LL)

Legend

Wiring diagram no. **81.99192.1397** Sheet **1** of 1 Change status: 04.01

A = Bunk light, bottom

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E274 (173) Bunk lamp, bottom

X1573 Stvd. bunk lighting, bottom

X2541 (246) Potential distributor, 21-pin line 31000 X2543 (246) Potential distributor, 21-pin line 30006

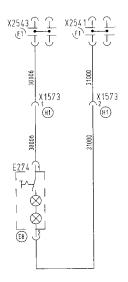
- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- (N) Front axle
- (P) Rear axle
- ®1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1397 Sheet 1 of 1

A100 (E6)

A302 (E6)



1 5 10 15 20 25 30 35 40 45 55

Bunk light, bottom (RL)

Legend

Wiring diagram no. **81.99192.1398** Sheet **1** of 1 Change status: 04.01

A = Bunk light, bottom

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E274 (173) Bunk lamp, bottom

X1573 Stvd. bunk lighting, bottom

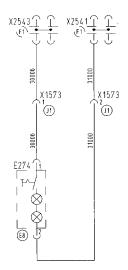
X2541 (246) Potential distributor, 21-pin line 31000

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1398 Sheet 1 of 1



1 5 10 15 20 25 30 35 40 45 50 55

Side marker lights (LL)

Legend

Wiring diagram no. 81.99192.2592 Sheet 1 of 1 Change status: 10.99

A = Side marker lights, left B = Side marker lights, right

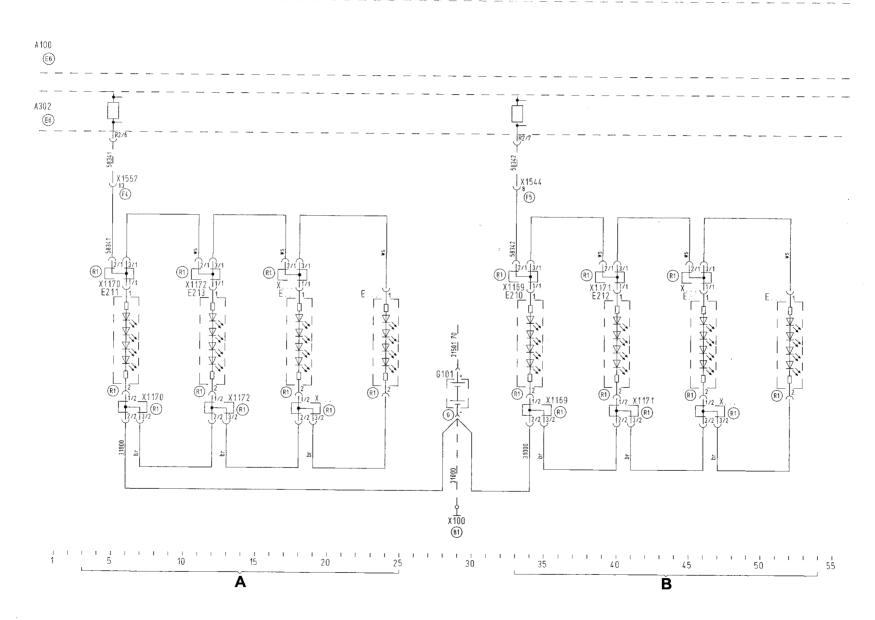
A 100 A302	(255) Central fuse, relay and terminal block (352) Central computer 2
E 210	(193) 1. Side marker light, right
E211	(193) 1. Side marking light, left
E212	(193) 2. Side marker light, right
E213	(193) 2. Side marking light, left
E	(193) Other side marker light with no title
E	(193) Last side marker light with no title

(113) Battery 2 G101

U	(1.0)	Dattory E
W400		E
X 100		Earthing point, engine
X1169	(170)	3x coupling for 1st side marker light, right
X1170	(170)	3x coupling for 1st side marker light, left
X1171	(170)	3x coupling for 2nd side marker light, right
X1172	(170)	3x coupling for 2nd side marker light, left
X1544		Stvd. frame III
X1557		Stvd. frame, left
X	(170)	Other coupling with no title

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c1) Bumper
- © Entrance right
- © Entrance left
- Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- § Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- (N) Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Seat heating, driver

Legend

Wiring diagram no. **81.99192.2494** Sheet **1** of 1 Change status: 02.00

A = Sitzheizung Fahrer

A100 (255) Central fuse, relay and terminal block

A233 (461) Seat, driver's side A302 (352) Central computer 2

F198 (118) Fuse, seat heating

R135 (143) Potentiometer seat heating, driver

X1565 Stvd. seat heating, left

X1644 Earthing point, cab, adjacent to central fuse,

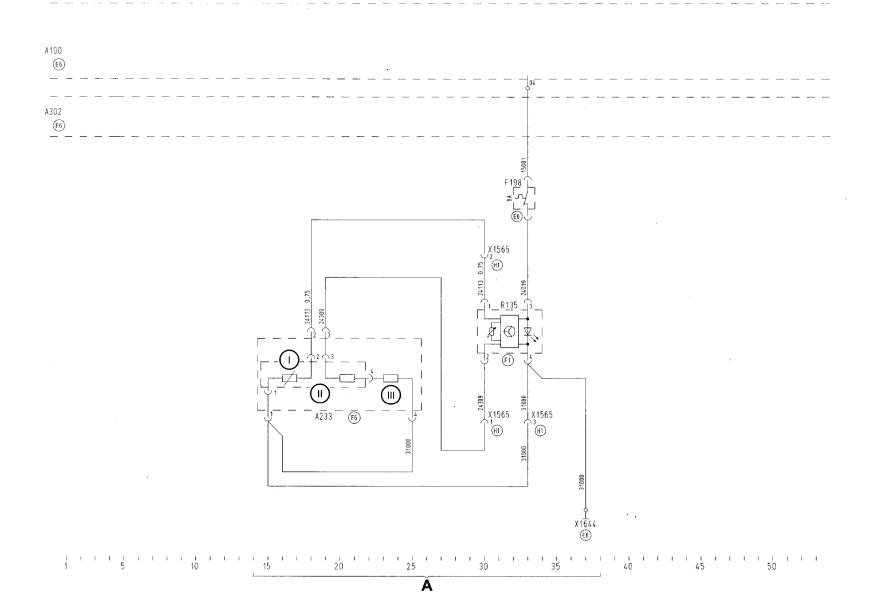
relay and terminal block

- (A) Tail
- **B1** Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Temperature (NTC)
- Seat
- (III) Backrest

- (F6) Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H) B-pillar on driver's side
- H2 A-pillar on driver's side
- 3 B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2494 Sheet 1 of 1

5€ - •



Seat heating, driver and passenger

Legend

Wiring diagram no. **81.99192.2493** Sheet **1** of 1 Change status: 02.00

A = Seat heating, driver

B = Seat heating, passenger

A 100	(255)	Central	fuse, relay	and termin	al block
		_			

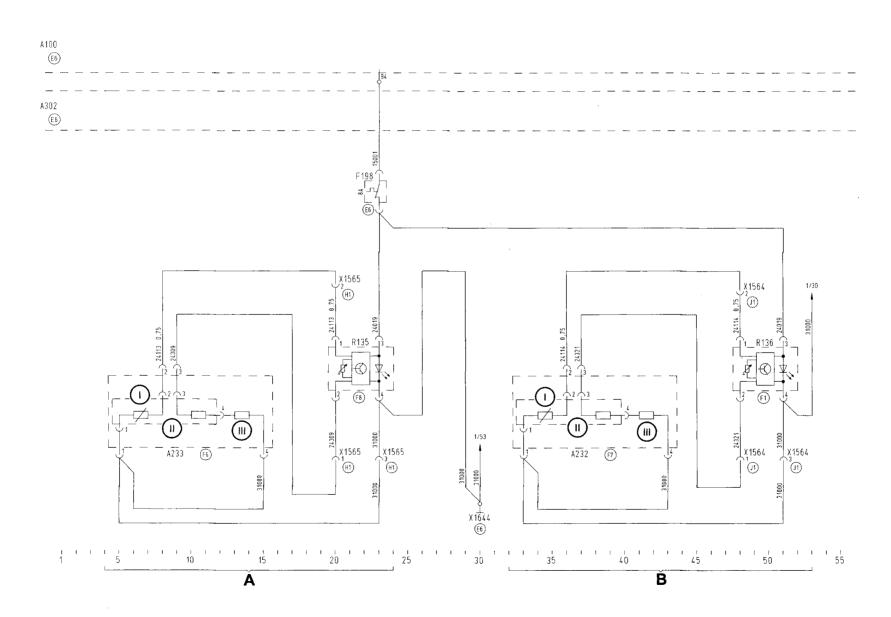
- A232 (461) Seat, passenger side A233 (461) Seat, driver's side
- A302 (352) Central computer 2
- F198 (118) Fuse, seat heating
- R135 (143) Potentiometer seat heating, driver
- R136 (143) Potentiometer seat heating, passenger
- X1564 Stvd. seat heating, right X1565 Stvd. seat heating, left
- X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Temperature (NTC)
- Seat
- Backrest

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2493 Sheet 1 of 1



Seat adjustment, electric (driver)

Legend

Wiring diagram no. **81.99192.1483** Sheet **1** of 1 Change status: 05.01

A = Seat adjustment, electric, driver

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2 A487 (393) Electrically adjustable driving seat

F274 (129) Fuse, seat adjustment

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

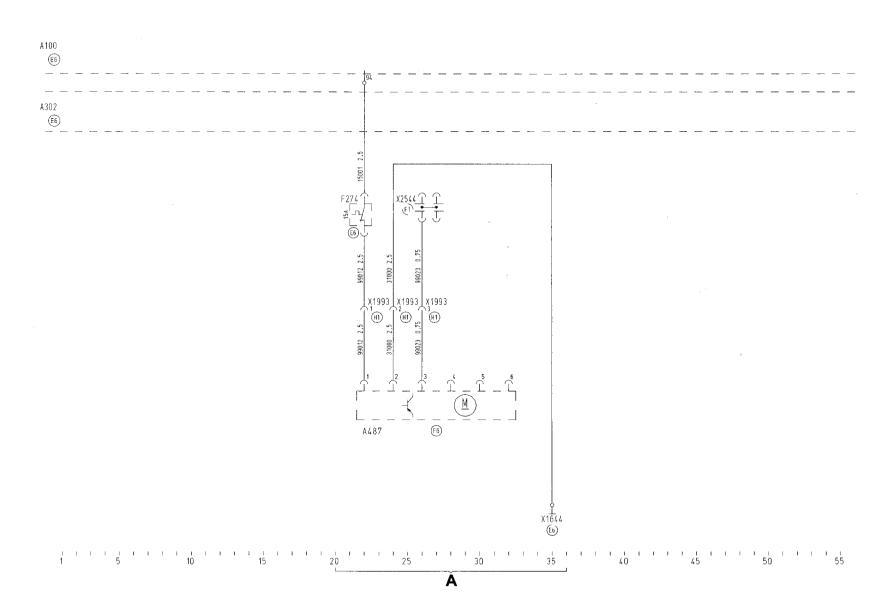
X1993 Stvd. seat adjustment, right X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- © Fntrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- (F7) Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. **81.99192.1483** Sheet **1** of 1



Seat adjustment, electric (passenger)

Legend

Wiring diagram no. **81.99192.1484** Sheet **1** of 1 Change status: 05.01

A = Seat adjustment, electric, passenger

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A488 (394) Electrically adjustable passenger seat

F425 (129) Fuse, seat adjustment, right

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

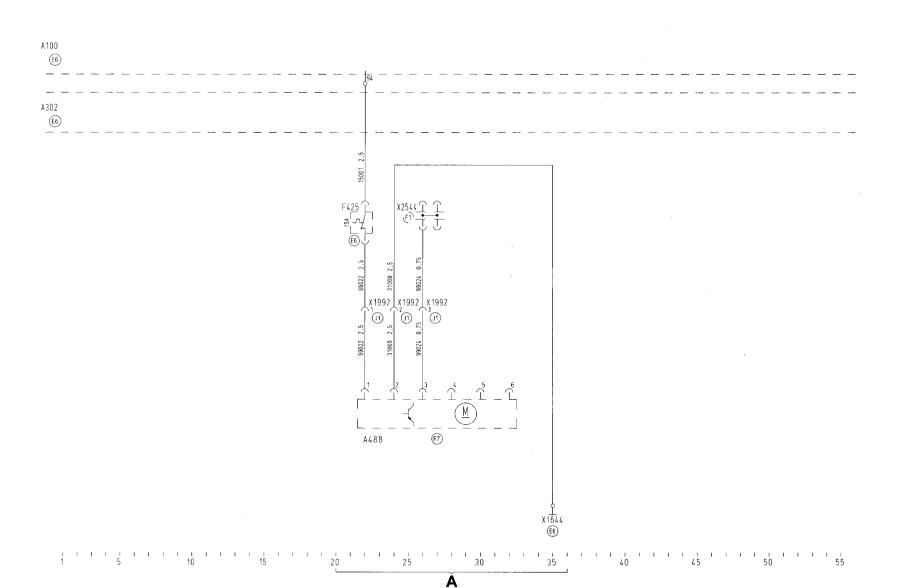
X1992 Stvd. seat adjustment, right

X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1484 Sheet 1 of 1



Sunblind, electric

Legend

Wiring diagram no. **81.99192.1399** Sheet **1** of 1 Change status: 04.01

A = Sunblind, electric, driver B = Sunblind, electric, passenger

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F426 (118) Fuse, sunblind

M124 (154) Sunblind, electr. actuated, right M125 (154) Sunblind, electr. actuated, left

\$233 (574) Control switch, sunblind driver, driver's side

S234 (574) Control switch, sunblind passenger, passenger's side

X1994 Stvd. sunblind, right X1995 Stvd. sunblind, left

X2541 (246) Potential distributor, 21-pin line 31000 X2542 (246) Potential distributor, 21-pin line 58000

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

① Bumper

© Entrance right

© Entrance left

(E6) Central electrics area

© Control unit racks

(E8) Rear wall of cab

nstrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

F6 Driving seat

Passenger seat

(F8) Control panel

G Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1) Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.1399 Sheet 1 of 1 A 100 (E6) A302 **E6**) X1994 1/26 _S2<u>34</u>

B

Voltage limiter

Legend

Wiring diagram no. **81.99192.2850** Sheet **1** of 1 Change status: 08.00

A = Voltage limiter

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A408 (403) Tachograph

G100 (113) Battery 1

G101 (113) Battery 2

T105 (116) Voltage limiter, tachograph

X100

Earthing point, engine

X2047

Stvd. tachograph

X2071

Stvd. voltage limiter

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (c1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- ① Output

- (F6) Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

START-STOP device on engine

Legend

S581

Wiring diagram no. **81.99192.1401** Sheet **1** of 1 Change status: 05.01

A = Start-stop device on engine

A 100 A302 A403 A435	(255) Central fuse, relay and terminal block(352) Central computer 2(339) Vehicle management computer(338) EDC control unit
B 493	(276) Pressure switch, parking brake switch start-stop external
K 266	(280) Relay, parking brake (on start-stop device)
Q 101	(110) Steering wheel lock
S 580	(580) Control switch, engine start (MP box)

X 669	Stvd. start inhibitor
X1551	Stvd. engine/EDC/transmission II
X1693	Crimped connector, line 60028
X1966	Stvd. ignition lock
X2334	Stvd. start-stop device

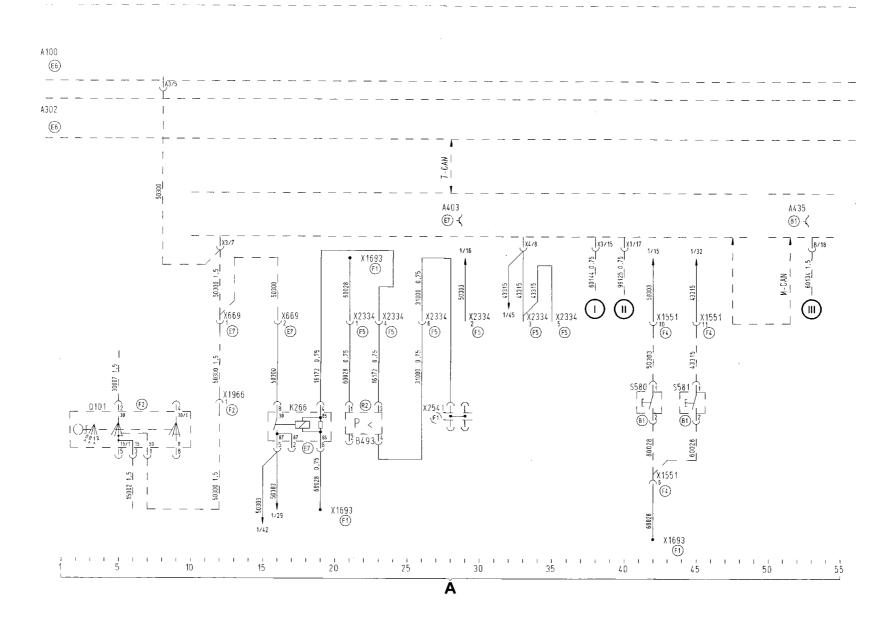
X2541 (246) Potential distributor, 21-pin line 31000

(580) Control switch, engine stop (MP box)

- A Tail
- B1 Engine
- B2 Gearbox
- © Front
- © Bumper
- ② Entrance right
- ©3 Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- E2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right
- (Vehicle immobiliser
- (II) Transmission, neutral
- Starting motor, terminal 50

- F6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1401 Sheet 1 of 1



START-STOP device at end of frame

Legend

Wiring diagram no. **81.99192.1402** Sheet **1** of 1 Change status: 05.01

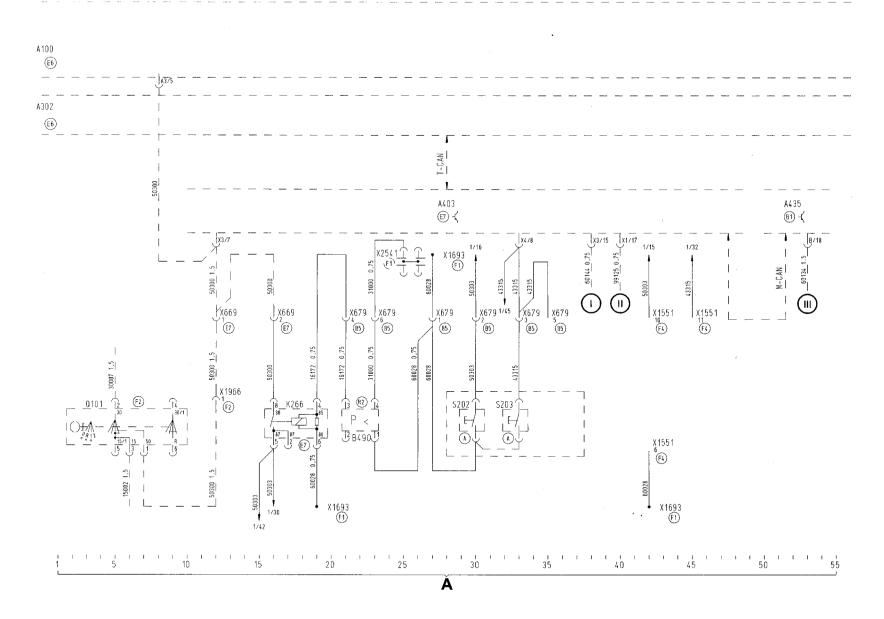
A = Start-stop device on frame end

A 100 A302 A403 A435	(352) (339)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer EDC control unit
B 490	(276)	Pressure switch, parking brake switch start-stop external
K 266	(280)	Relay, parking brake (on start-stop device)
Q 101	(110)	Steering wheel lock
S 202 S203		Control switch, engine start (superstructure) Control switch, engine stop (superstructure)
X669 X679 X1551 X1693 X1966 X2541	(246)	Stvd. start inhibitor Stvd. start-stop device Stvd. engine/EDC/transmission II Crimped connector, line 60028 Stvd. ignition lock Potential distributor, 21-pin line 31000
AZ34 I	(240)	r oteritial distributor, 2 r-pin line 3 root

- (A) Tail
- B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- (Vehicle immobiliser
- Transmission, neutral
- Starting motor, terminal 50

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- S1 Door left
- © Door right

Wiring diagram no. 81.99192.1402 Sheet 1 of 1



START-STOP device on engine and end of frame

Legend

Wiring diagram no. 81.99192.1403 Sheet 1 of 1 Change status: 05.01

A = Start-stop device on engine and frame end

A 100	(255)	Central fuse, relay and terminal block	
A302	(352)	Central computer 2	

(339) Vehicle management computer A403

(338) EDC control unit A435

(276) Pressure switch, parking brake switch start-stop external **B**490

(280) Relay, parking brake (on start-stop device) **K**266

(110) Steering wheel lock **Q**101

S 202	Control switch, engine start (superstructure)
S203	Control switch, engine stop (superstructure)
S580	(580) Control switch, engine start (MP box)

(580) Control switch, engine stop (MP box) S581

X669 Stvd. start inhibitor Stvd. start-stop device X679

X1551 Stvd. engine/EDC/transmission II Crimped connector, line 60028 X1693

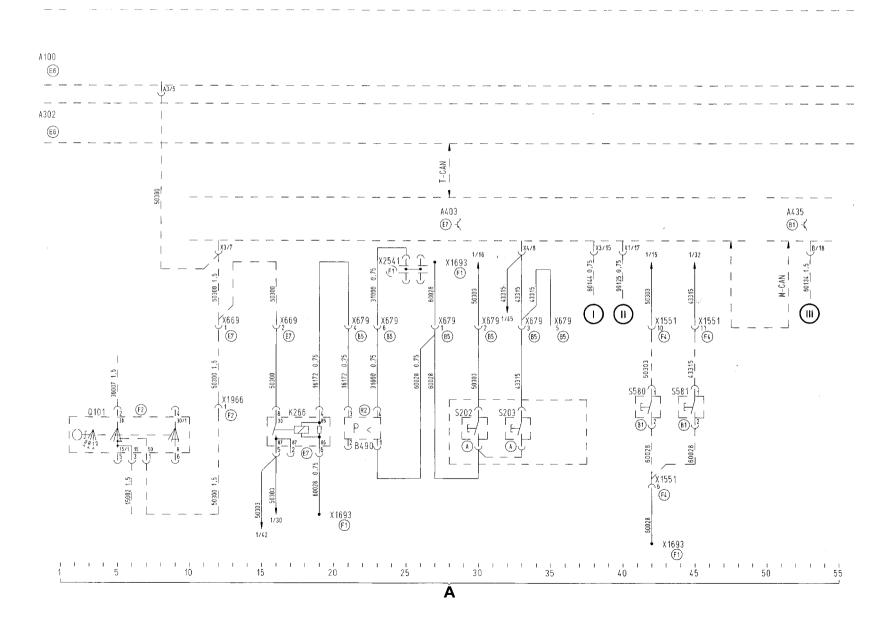
X1966 Stvd. ignition lock

X2541 (246) Potential distributor, 21-pin line 31000

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (EB) Rear wall of cab
- (F) Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Vehicle immobiliser
- Transmission, neutral
- Starting motor, terminal 50

- (F6) Driving seat
- (F) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1403 Sheet 1 of 1



Locker lighting, rear left (LL)

Legend

Wiring diagram no. **81.99192.2489** Sheet **1** of 1 Change status: 12.99

A = Locker lighting, rear left

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E281 (170) Locker lighting, rear left

X1569 Stvd. locker lighting, left

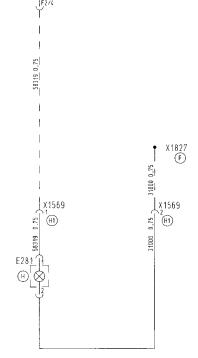
X1827 Crimped connector, line 31000

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- (G) Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ^(R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. **81.99192.2489** Sheet **1** of 1



1 5 10 15 20 25 30 35 40 45 50 55

Locker lighting, rear left (RL)

Legend

Wiring diagram no. 81.99192.2411 Sheet 1 of 1

Change status: 12.99

A = Locker lighting, rear left

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E281 (170) Locker lighting, rear left

X1569 Stvd. locker illumination, left X1827 Crimped connector, line 31000

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ©2) Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2411 Sheet 1 of 1

1 5 10 15 20 25 30 35 40 45 50 55

Locker lighting, rear right (LL)

Legend

Wiring diagram no. **81.99192.2490** Sheet **1** of 1 Change status: 12.99

A = Locker lighting, rear left

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E280 (170) Locker lighting, rear right

X1570

Stvd. locker lighting, right

X1829

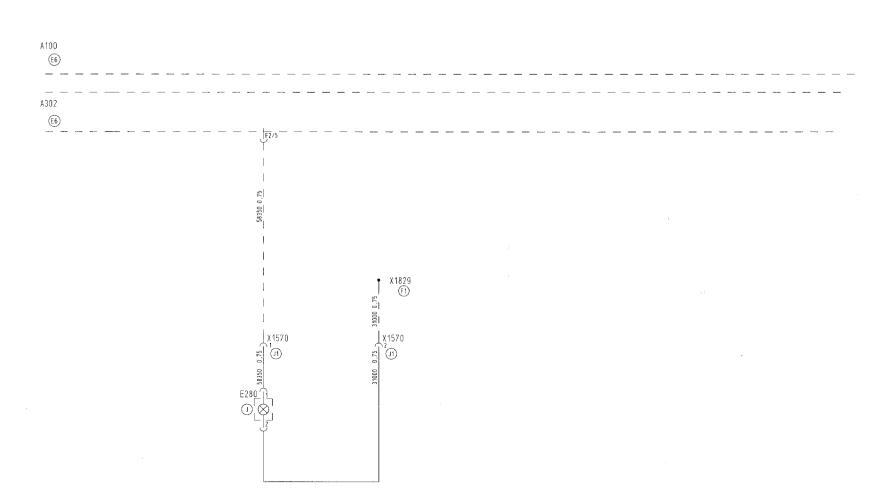
Crimped connector, line 31000

- (A) Tail
- B1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2490 Sheet 1 of 1



1 5 10 15 20 25 30 35 40 45 50 55 A

Locker lighting, rear right (RL)

Legend

Wiring diagram no. **81.99192.2412** Sheet **1** of 1 Change status: 12.99

A = Locker lighting, rear left

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E280 (170) Locker lighting, rear right

X1570 Stvd. locker lighting, right

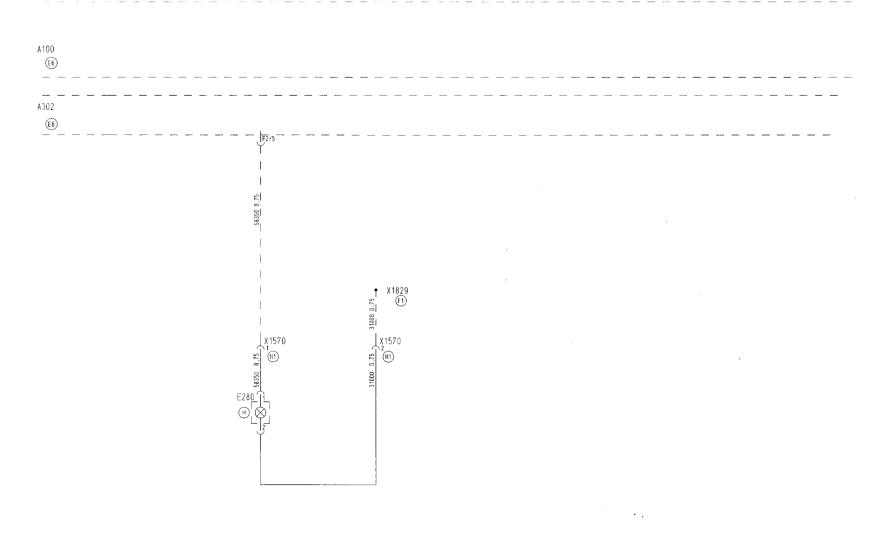
X1829 Crimped connector, line 31000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- 🖲 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.2412 Sheet 1 of 1



Locker lighting, top (left, middle) (LL)

Legend

Wiring diagram no. **81.99192.1404** Sheet **1** of 1 Change status: 05.01

A = Locker lighting, top (left, middle)

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2

, 1882 (882) Solitival Solitipator 2

E277 (177) Locker lighting, top left E279 (177) Locker lighting, top centre

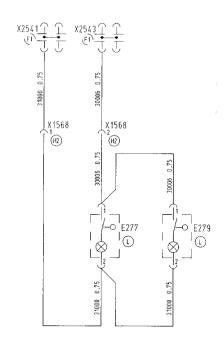
X1568 Stvd. locker lighting, top

X2541 (246) Potential distributor, 21-pin line 31000 X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- ^{B1} Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- (R2) Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1404 Sheet 1 of 1



1 5 10 15 20 25 30 35 40 45 50 55

Locker lighting, top (left, middle) (RL)

Legend

Wiring diagram no. **81.99192.1405** Sheet **1** of **1** Change status: 05.01

A = Locker lighting, top (left, middle)

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E277 (177) Locker lighting, top left

E279 (177) Locker lighting, top centre

X1568 Stvd. locker lighting, top

X2541 (246) Potential distributor, 21-pin line 31000 X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

ADDITIONAL WIRING DIAGRAMS

Wiring diagram no. **81.99192.1405** Sheet **1** of 1

A100 (E6)

A302

1 5 10 15 20 25 30 35 40 45 55 **A**

Locker lighting, top (left, middle, right) (LL)

Legend

Wiring diagram no. **81.99192.1406** Sheet **1** of 1 Change status: 05.01

A = Locker lighting, top (left, middle, right)

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E277 (177) Locker lighting, top left E278 (177) Locker lighting, top right

E279 (177) Locker lighting, top centre

X1568 Stvd. locker lighting, top

X2541 (246) Potential distributor, 21-pin line 31000

X2543 (246) Potential distributor, 21-pin line 30006

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

©1) Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

F7 Passenger seat

® Control panel

G Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

R1) Front part of frame

Rear part of frame

(S1) Door left

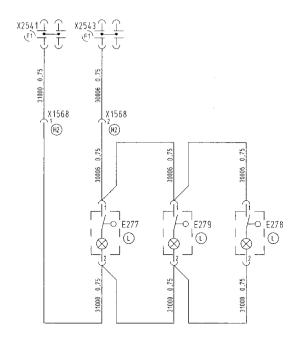
© Door right

Wiring diagram no. 81.99192.1406 Sheet 1 of 1

A100 (E6)

1202

(E6)



Locker lighting, top (left, middle, right) (RL)

Legend

Wiring diagram no. **81.99192.1407** Sheet **1** of 1 Change status: 05.01

A = Locker lighting, top (left, middle, right)

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

E277 (177) Locker lighting, top left E278 (177) Locker lighting, top right

E279 (177) Locker lighting, top centre

X1568 Stvd. locker lighting, top

X2541 (246) Potential distributor, 21-pin line 31000

X2543 (246) Potential distributor, 21-pin line 30006

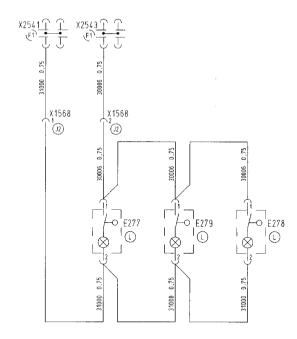
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3) Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Pront part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1407 Sheet 1 of 1

A100 [B]

A302



1 5 10 15 15 55

12V socket

Legend

Wiring diagram no. **81.99192.2569** Sheet **1** of 1 Change status: 10.99

A = 12V socket

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F216 (129) Fuse, voltage transformer for 12V socket

T106 (107) Voltage transformer for 12V/24V 15A socket

X723 (196) 12V socket

X1644 Earthing point, cab, adjacent to central fuse, relay and terminal block

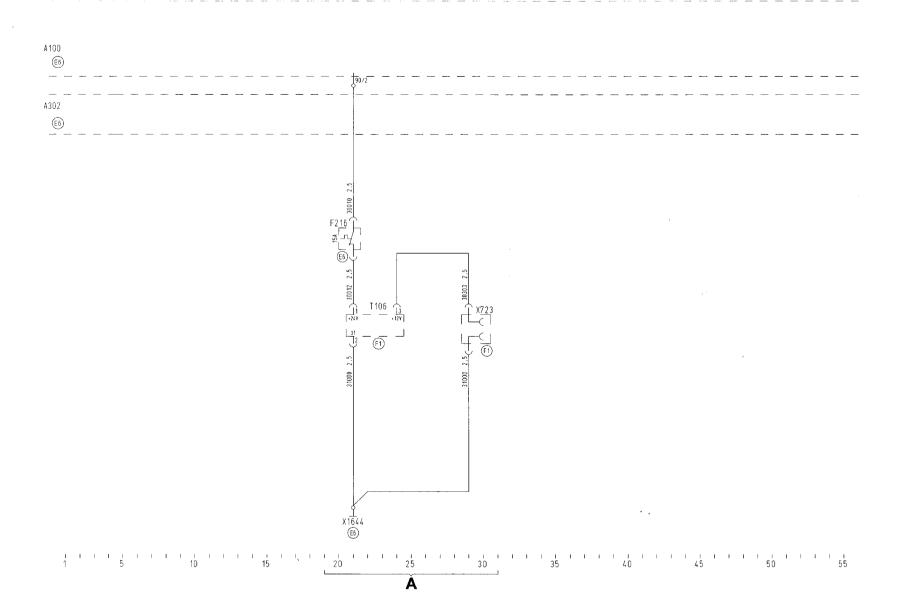
- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right



Wiring diagram no. 81.99192.2569 Sheet 1 of 1

.*, ::•





Wiring diagram no. 81.99192.2570 Sheet 1 of 1

A100

Socket 24V in wiring trough

Legend

Wiring diagram no. **81.99192.2796** Sheet **1** of 1 Change status: 05.00

A = Socket 24V in wiring trough (engine)

F355 (132) Main fuse (terminal 30-2)

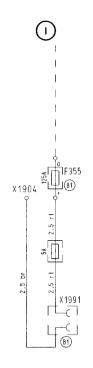
X1904 Threaded bolt M6 (MP box) X1991 (219) 24V socket (MP box)

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- (B) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Wiring trough, engine

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2796 Sheet 1 of 1

A100



1 5 10 15 20 25 30 35 40 45 50 55

Socket, tanker

Legend

Wiring diagram no. **81.99192.2655** Sheet **1** of 1 Change status: 04.99

A = Socket, 13-pin, tanker

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2

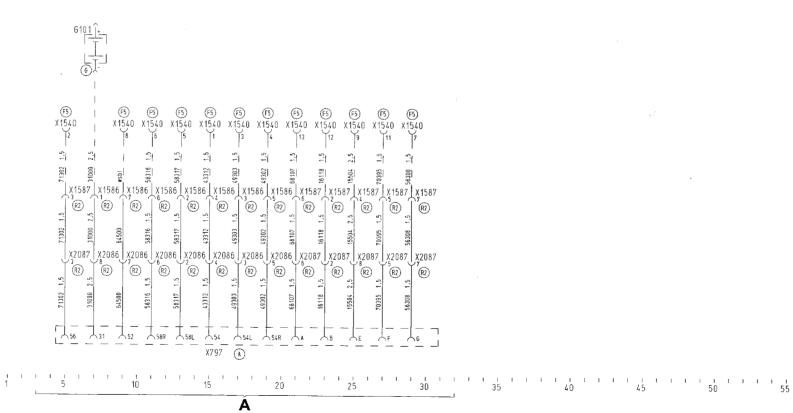
G101 (113) Battery 2

X797 (207) Socket, tanker
 X1540 Stvd. frame I
 X1586 Stvd. connection for trailer lighting socket 1
 X1587 Stvd. connection for trailer lighting socket 2
 X2086 Stvd. adapter cable socket, tanker
 X2087 Stvd. adapter cable socket, tanker

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2655 Sheet 1 of 1



K 90 4.20 - 1

Cullmann phone with radio 24V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2871** Sheet **1** of 2 Change status: 10.00

A = Active aerial

B = Radio

C = Amplifier

A100 (255) Central fuse, relay and terminal block A148 (574) Radio/cassette player

A302 (352) Central computer 2

B158 (298) Driver's loudspeaker, front right

B496 (344) Cab loudspeaker, left, with hand-free telephone

N106 (127) Audio amplifier

W177 (172) Combination aerial

X1639 Soldered connector, line 16000 X1643 Soldered connector, line 58300

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1974 Stvd. for active aerial

X2459 Stvd. adaptation mute signal

X2496 Adaptation mute signal lane guard

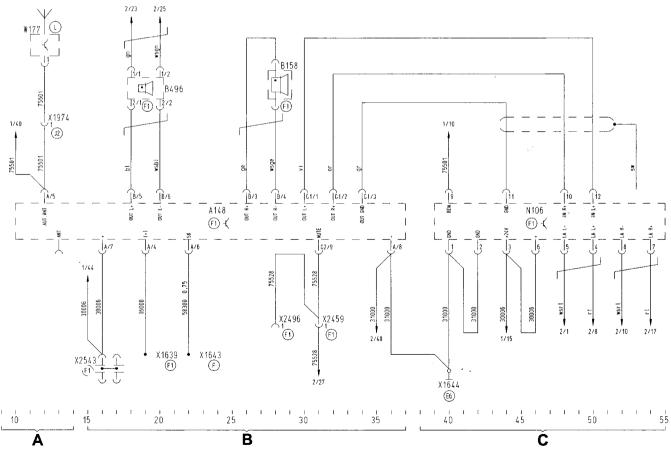
X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- 🖲 Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (f) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2871 Sheet 1 of 2





Cullmann phone with radio 24V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2871** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

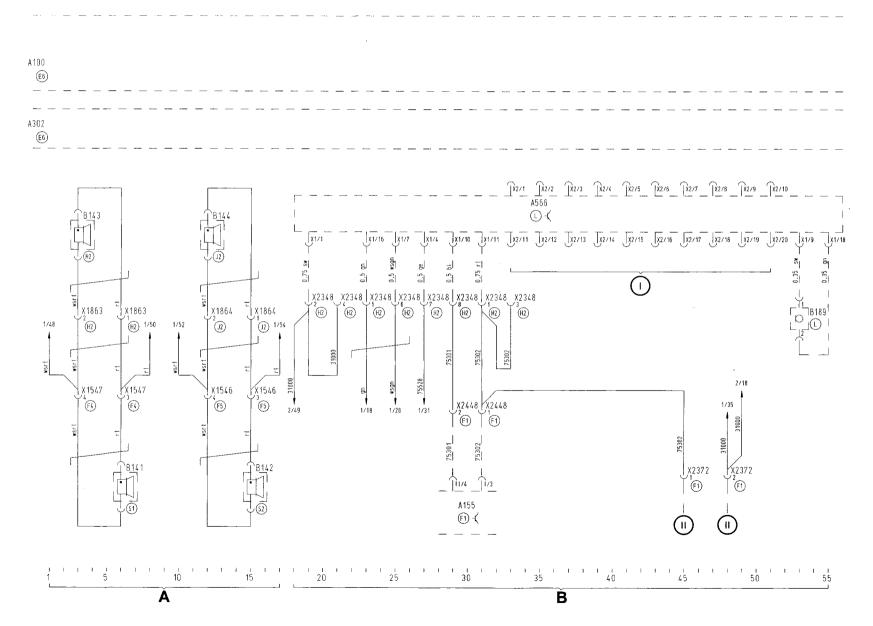
B = Cullmann telephone box

A 100 A155 A302	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2
A566	(545)	Cellular phone station
B 141 B142 B143 B144 B189	(296) (297) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone
X 1546		Stvd. door, right
X1547		Stvd. door, left
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X2348		Stvd. telephone
X2372		Stvd. supply to CD changer
X2448		Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Mobile phone interface
- CD changer

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2871 Sheet 2 of 2



Cullmann phone with radio 24V MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2872** Sheet **1** of 2 Change status: 10.00

A = Active aerial

B = Radio

C = Amplifier

A100 (255) Central fuse, relay and terminal blockA148 (574) Radio/cassette playerA302 (352) Central computer 2

B157 (298) Driver's loudspeaker, front left

B498 (344) Cab loudspeaker, right, with hand-free telephone

N106 (127) Audio amplifier

W177 (172) Combination aerial

X1639 Soldered connector, line 16000 X1643 Soldered connector, line 58300

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1974 Stvd. for active aerial

X2459 Stvd. adaptation mute signal

X2496 Adaptation mute signal lane guard

X2543 (246) Potential distributor, 21-pin line 30006

Marking of mounting positions

(A) Tail

^{B1} Engine

(B2) Gearbox

© Front

(1) Bumper

© Entrance right

©3 Entrance left

© Central electrics area

(E7) Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

6 Driving seat

Passenger seat

(F8) Control panel

Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

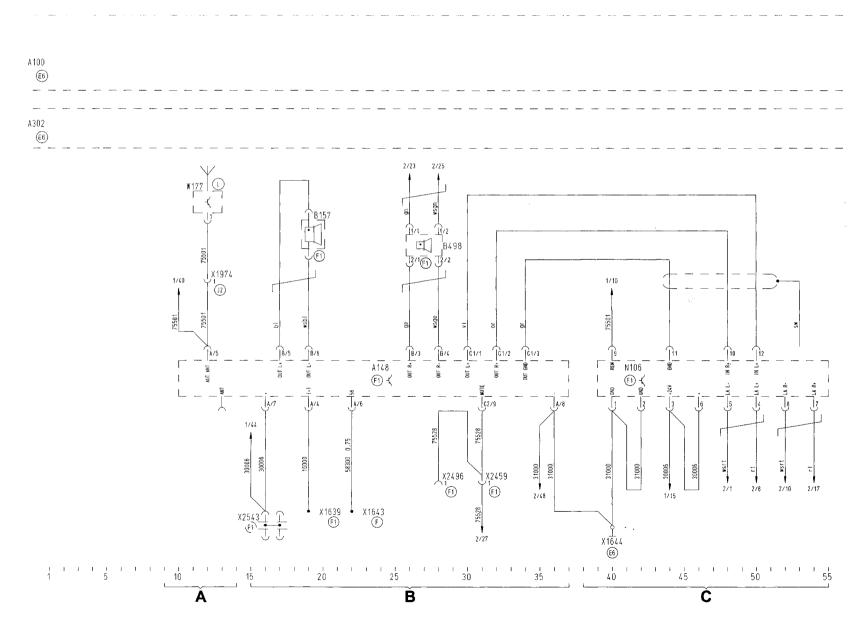
R1 Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.2872 Sheet 1 of 2



Cullmann phone with radio 24V MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2872** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

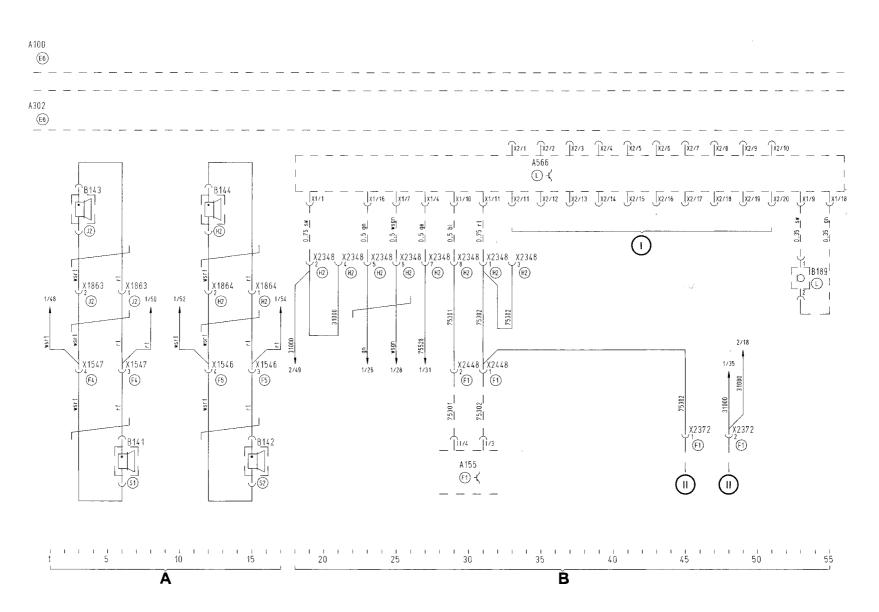
B = Cullmann telephone box

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B 141		Loudspeaker 1, door left
B142	(296)	Loudspeaker 1, door right
B143	(297)	Loudspeaker 2, door left
B144	(297)	Loudspeaker 2, door right
B189	(345)	Microphone for hands-free telephone
X 1546		Stvd. door right
X1547		Stvd. door left
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X2348		Stvd. telephone
X2372		Stvd. supply to CD changer
X2448		Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- ^{B2} Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- § Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Mobile phone interface
- (I) CD changer

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2872 Sheet 2 of 2



Cullmann phone with radio 24V and CD changer MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.1447** Sheet **1** of 2 Change status: 05.01

A = Active aerial, radio, CD changer

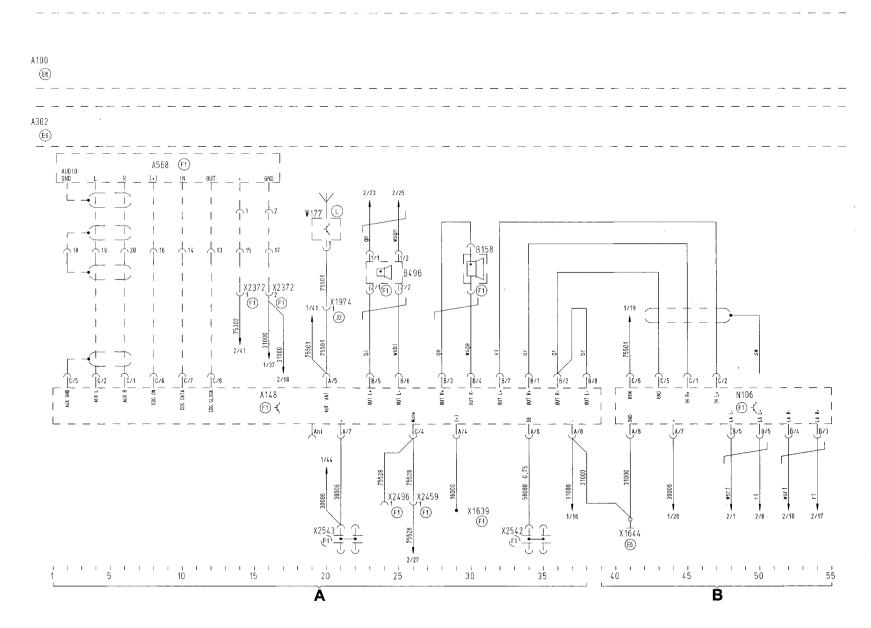
B = Amplifier

A 100 A148 A302 A568	(388) (352)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 CD changer
B 158 B496		Driver's loudspeaker, front right Cab loudspeaker, left, with hand-free telephone
N 106	(123)	Audio amplifier
W 177	(172)	Combination aerial
X 1639 X1644		Soldered connector, line 16000 Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974		Stvd. for active aerial
X2372		Stvd. supply to CD changer
X2459		Stvd. adaptation mute signal
X2496	(0.40)	Adaptation mute signal lane guard
		Potential distributor, 21-pin line 58000
X2543	(246)	Potential distributor, 21-pin line 30006

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1447 Sheet 1 of 2



Cullmann phone with radio 24V and CD changer MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.1447** Sheet **2** of 2 Change status: 05.01

A = Loudspeaker

B = Cullmann telephone box

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189	(296) (297) (297)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone
X1546 X1547 X1863 X1864 X2348 X2448		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. adaptation 12V telephone

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Mobile phone interface

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (12) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1447 Sheet 2 of 2 A100 A302 (E6) | X2348 | X234 X1863 H2 X1864 X1864 X1863 ′1 (J2) 1/54 H2 1/50 12 X2448 X2448 X1547 (F5) A155

Cullmann phone with radio 24V and CD changer MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2878** Sheet **1** of 2 Change status: 10.00

A = Radio, CD changer, active aerial

B = Amplifier

A 100	(255) Central fuse, relay and terminal block
A148	(574) Radio/cassette player
A302	(352) Central computer 2
A568	(546) CD changer
	· · ·
B 157	(298) Driver's loudspeaker, front left
B498	(344) Cab loudspeaker, right, with hand-free telephone
	. ,

N106 (127) Audio amplifier

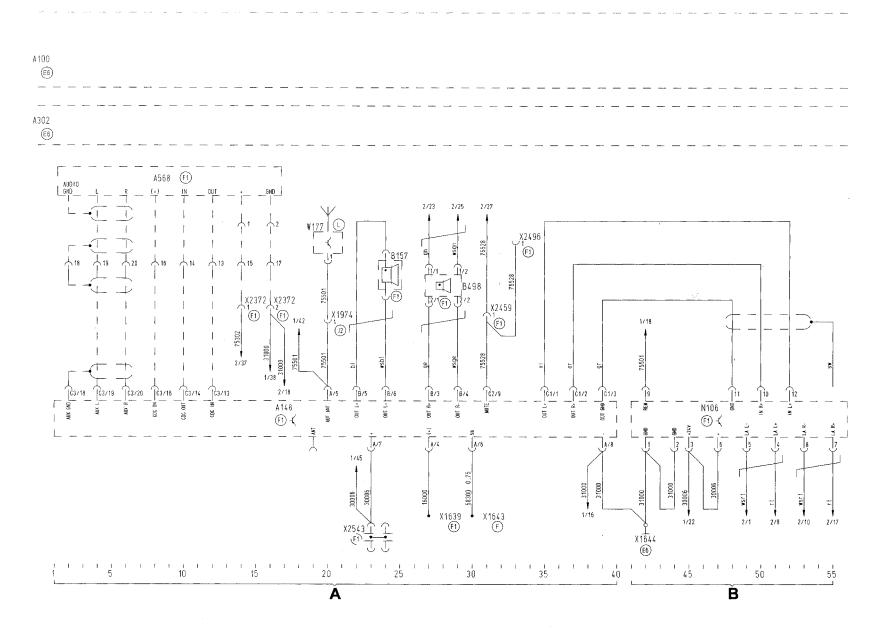
W177 (172) Combination aerial

(172) Combination denai
Soldered connector, line 16000
Soldered connector, line 58300
Earthing point, cab, adjacent to central fuse,
relay and terminal block
Stvd. for active aerial
Stvd. supply to CD changer
Stvd. adaptation mute signal
Adaptation mute signal lane guard
(246) Potential distributor, 21-pin line 30006

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2878 Sheet 1 of 2



Cullmann phone with radio 24V and CD changer MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2878** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

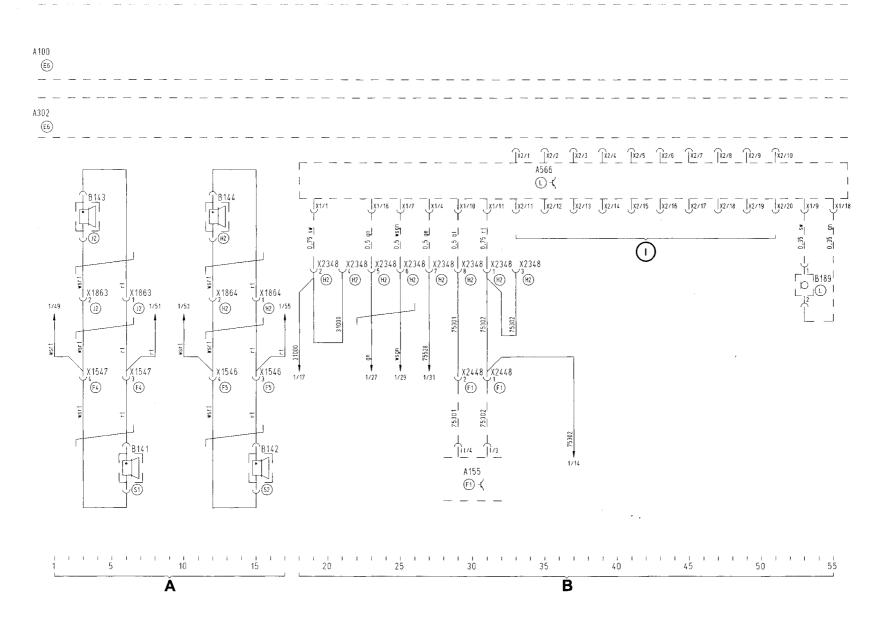
B = Cullmann telephone box

A100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B 141		Loudspeaker 1, door left
B142	(296)	Loudspeaker 1, door right
B143	(297)	Loudspeaker 2, door left
B144	(297)	Loudspeaker 2, door right
B189	(345)	Microphone for hands-free telephone
X 1546		Stvd. door right
X1547		Stvd. door left
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X2348		Stvd. telephone
X2448		Stvd. adaptation 12V telephone

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- () Mobile phone interface

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2878 Sheet 2 of 2



Nokia phone with radio 24V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2873** Sheet **1** of 2 Change status: 10.00

A = Active aerial

B = Radio

C = Amplifier

A100 (255) Central fuse, relay and terminal block

A148 (574) Radio/cassette player

A302 (352) Central computer 2

B158 (298) Driver's loudspeaker, front right

B496 (344) Cab loudspeaker, left, with hand-free telephone

N106 (127) Audio amplifier

W177 (172) Combination aerial

X1639 Soldered connector, line 16000 X1643 Soldered connector, line 58300

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1974 Stvd. for active aerial

X2459 Stvd. adaptation mute signal

X2496 Adaptation mute signal lane guard

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- 🖲 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2873** Sheet **1** of 2 A 100 A302 (E6) 2/23 2/25 X1974 1/40 A148 X2496 B

Nokia phone with radio 24V MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2873** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

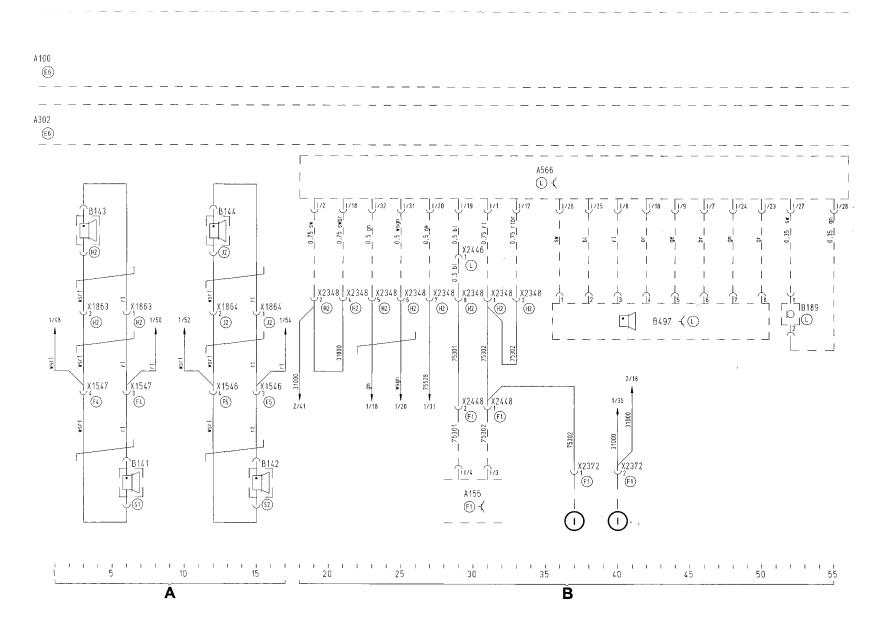
B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2372 X2446 X2448		Stvd. door right Stvd. door left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. supply to CD changer Stvd. TBM (terminal 15) Stvd. adaptation 12V telephone

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- (1) CD changer

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. 81.99192.2873 Sheet 2 of 2



Nokia phone with radio 24V MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2874** Sheet **1** of 2 Change status: 10.00

A = Active aerial

B = Radio

C = Amplifier

A100 (255) Central fuse, relay and terminal block A148 (574) Radio/cassette player

A302 (352) Central computer 2

B157 (298) Driver's loudspeaker, front left

B498 (344) Cab loudspeaker, right, with hand-free telephone

N106 (127) Audio amplifier

W177 (172) Combination aerial

X1639 Soldered connector, line 16000 X1643 Soldered connector, line 58300

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1974 Stvd. for active aerial

X2459 Stvd. adaptation mute signal

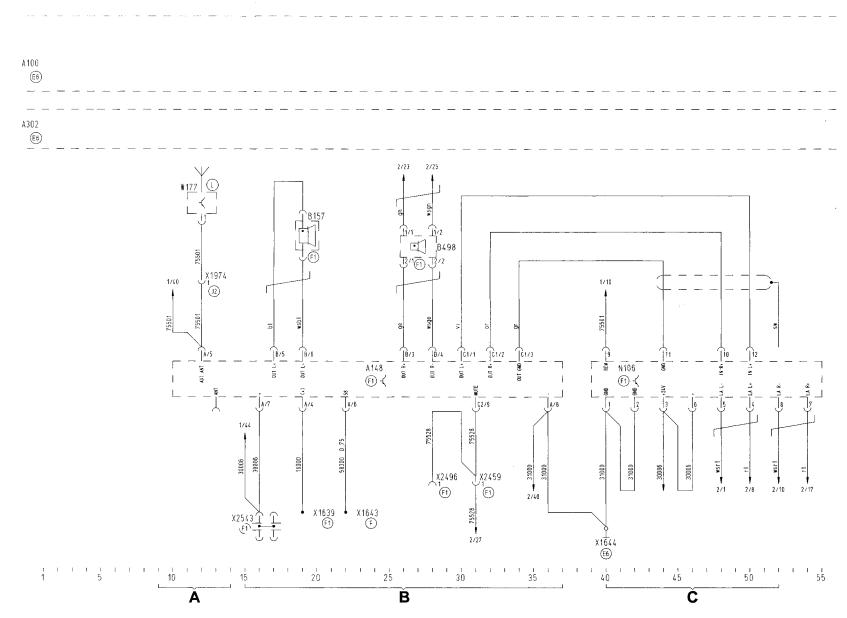
X2496 Adaptation mute signal lane guard

X2543 (246) Potential distributor, 21-pin line 30006

- A Tail
- ®1 Engine
- B2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (FB) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- (N) Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2874 Sheet 1 of 2



Nokia phone with radio 24V MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2874** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

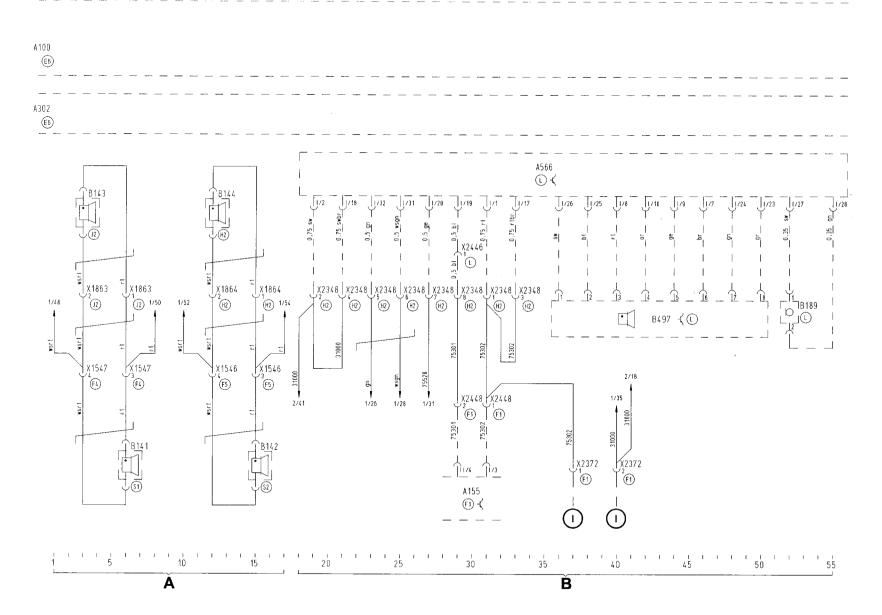
B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2372 X2446 X2448		Stvd. door, right Stvd. door, left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. supply to CD changer Stvd. TBM (terminal 15) Stvd. adaptation 12V telephone

- (A) Tail
- ^{®1} Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- (F3) Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- () CD changer

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.2874 Sheet 2 of 2



Nokia phone with radio 24V and CD changer MAN-Sound (LL)

Legend

X1643

Wiring diagram no. **81.99192.2875** Sheet **1** of 2 Change status: 10.00

A = Radio, CD changer, active aerial B = Amplifier

A 100 A148 A302 A568	(574) (352)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 CD changer
B 158 B496		Driver's loudspeaker, front right Cab loudspeaker, left, with hand-free telephone
N 106	(127)	Audio amplifier
W 177	(172)	Combination aerial
X 1639		Soldered connector, line 16000

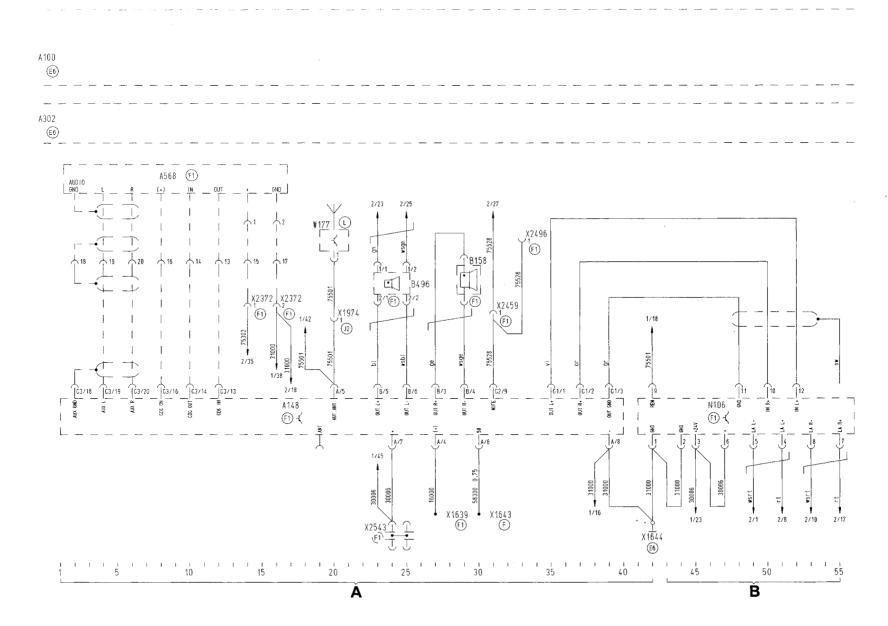
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X1974		Stvd. for active aerial
X2372		Stvd. supply to CD changer
X2459		Stvd. adaptation mute signal
X2496		Adaptation mute signal lane guard
X2543	(246)	Potential distributor, 21-pin line 30006

Soldered connector, line 58300

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2875** Sheet **1** of 2



Nokia phone with radio 24V and CD changer MAN-Sound (LL)

Legend

Wiring diagram no. **81.99192.2875** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker

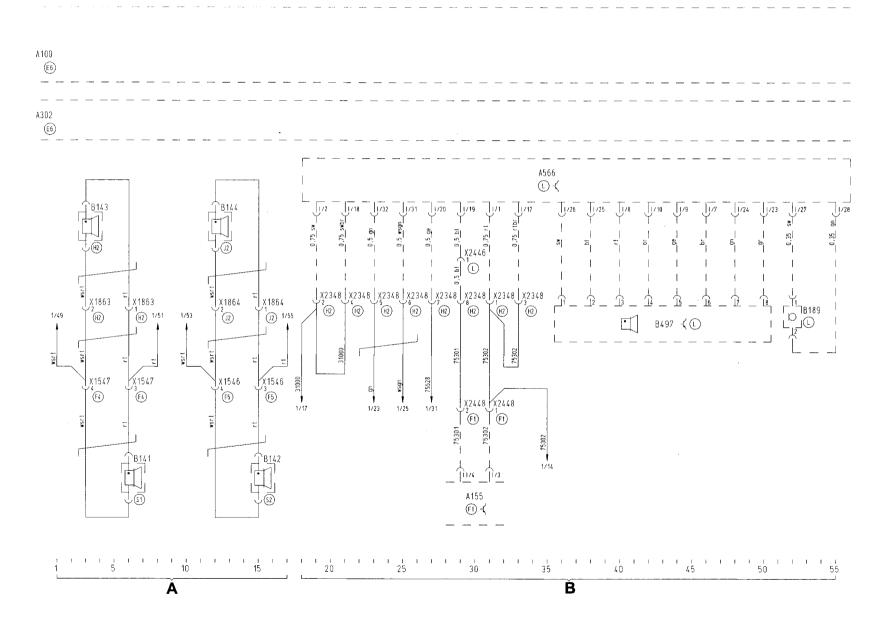
B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B 141		Loudspeaker 1, door left
B142		Loudspeaker 1, door right
B143		Loudspeaker 2, door left
B144	,	Loudspeaker 2, door right
B189		Microphone for hands-free telephone
B497	(346)	Telephone receiver
X 1546		Stvd. door right
-		Stvd. door left
X1547		
X1863		Stvd. loudspeaker, left
X1864		Stvd. loudspeaker, right
X2348		Stvd. telephone
X2446		Stvd. TBM (terminal 15)
X2448		Stvd. adaptation 12V telephone

- (A) Tail
- B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- © Door left
- © Door right

Wiring diagram no. **81.99192.2875** Sheet **2** of 2



Nokia phone with radio 24V and CD changer MAN-Sound (RL)

Legend

X2372 X2459

X2496

Wiring diagram no. **81.99192.2876** Sheet **1** of 2 Change status: 10.00

A = Radio, CD changer, active aerial B = Amplifier

A100 A148 A302 A568	(574) (352)	Central fuse, relay and terminal block Radio/cassette player Central computer 2 CD changer
B 157 B498		Driver's loudspeaker, front left Cab loudspeaker, right, with hand-free telephone
N 106	(127)	Audio amplifier
W 177	(172)	Combination aerial
X 1639 X1643 X1644		Soldered connector, line 16000 Soldered connector, line 58300 Earthing point, cab, adjacent to central fuse, relay and terminal block
X1974		Stvd. for active aerial

Stvd. supply to CD changer

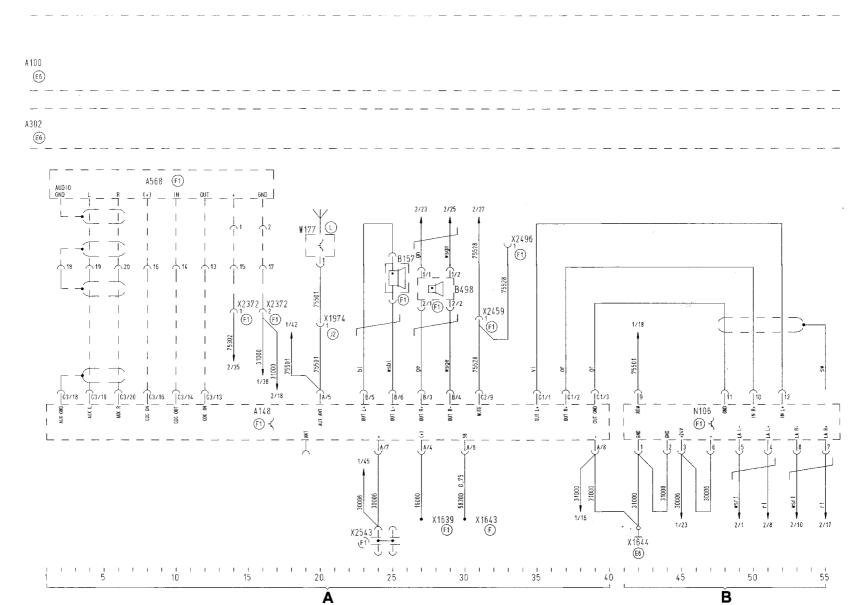
X2543 (246) Potential distributor, 21-pin line 30006

Stvd. adaptation mute signal Adaptation mute signal lane guard

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1) Bumper
- ② Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- (F7) Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2876 Sheet 1 of 2



Nokia phone with radio 24V and CD changer MAN-Sound (RL)

Legend

Wiring diagram no. **81.99192.2876** Sheet **2** of 2 Change status: 10.00

A = Loudspeaker B = Nokia telephone

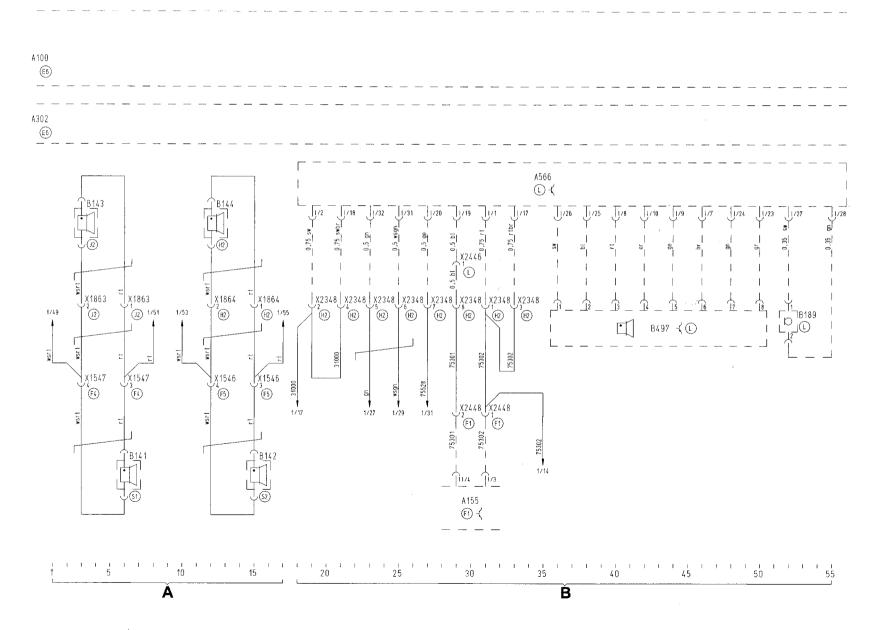
B = Nokia telephone

A 100 A155 A302 A566	(182) (352)	Central fuse, relay and terminal block Voltage transformer 24V/12V Central computer 2 Cellular phone station
B141 B142 B143 B144 B189 B497	(296) (297) (297) (345)	Loudspeaker 1, door left Loudspeaker 1, door right Loudspeaker 2, door left Loudspeaker 2, door right Microphone for hands-free telephone Telephone receiver
X1546 X1547 X1863 X1864 X2348 X2446 X2448		Stvd. door right Stvd. door left Stvd. loudspeaker, left Stvd. loudspeaker, right Stvd. telephone Stvd. TBM (terminal 15) Stvd. adaptation 12V telephone

- (A) Tail
- **B1** Engine
- B2 Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2876 Sheet 2 of 2



Door module (LL)

Legend

Wiring diagram no. **81.99192.2989** Sheet **1** of 5 Change status: 03.01

A = Central locking, driver's door

A = Window lift, driver's door

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A451 (441) Door module (driver's side) A453 (443) Window lift (driver side)

A465 (453) Door lock (driver's side)

\$519 (522) Lock nut switch, driver's side S527 (525) Control switch, window lift, left

X1547 Stvd. door, left

X1733 Styd. switch sunroof

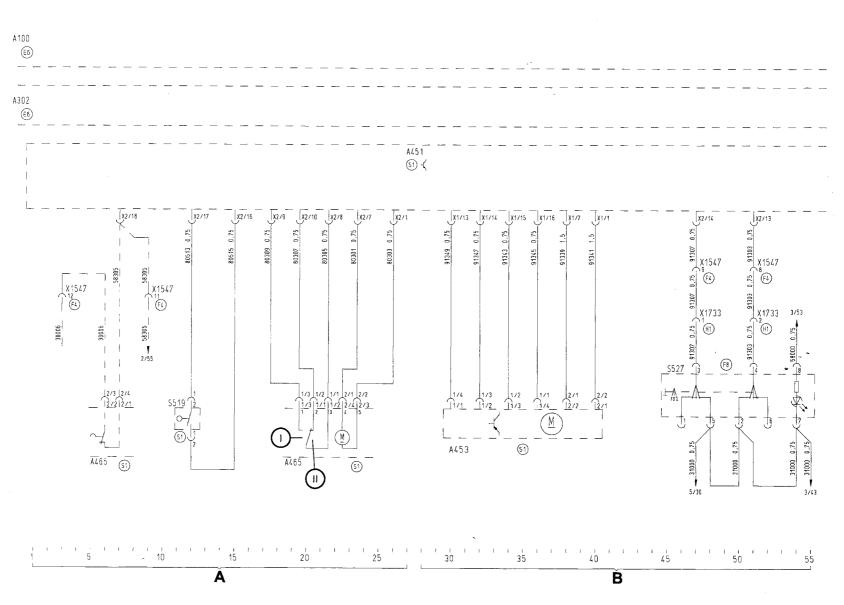
Pin assignment A451:

- X2/18 Central locking, lock latch switch E
- X2/17 Central locking, lock nut switch E X2/16 Central locking, lock nut switch A
- X2/9 Central locking, actuator element locked/unlocked
- X2/10 Central locking, actuator element locked/unlocked
- X2/8 Central locking, actuator element locked/unlocked
- X2/7 Central locking, engine, actuator element + X2/1 Central locking, engine, actuator element -
- X1/13 Window lift, hall sensor 2 signal
- X1/14 Window lift, hall sensor 1 signal
- X1/15 Window lift, hall sensor 1/2 +
- X1/16 Window lift, hall sensor 1/2 -
- X1/7 Window lift, engine + X1/1 Window lift, engine -
- X2/14 Close window lift
- X2/13 Open window lift

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- (Locking
- (II) Unlocking

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- (N) Front axle
- (P) Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. **81.99192.2989** Sheet **1** of 5



Door module (LL)

Legend

Wiring diagram no. **81.99192.2989** Sheet **2** of 5 Change status: 03.01

A = Sunroof

B = Mirror adjustment/mirror heating, driver's door

C = Diagnosis

D = Power supply, driver's door

E = CAN

A100 (255) Central fuse, relay and terminal block
A157 (449) Main mirror (driver)
A251 (447) Wide-angle mirror (driver)
A253 (445) Curb mirror (driver)
A302 (352) Central computer 2
A451 (441) Door module (driver's side)

X147 Stvd. sunroof/roof hatch

X1547 Stvd. door left

X1583 Stvd. main and wide-angle mirror, left

X1585 Stvd. curb mirror, left

X2544 (246) Potential distributor 21-pin K-line

Pin assignment A451:

X2/15 Sunroof

X1/6 Curb mirror + terminal 30

X1/12 Curb mirror, earth

X1/10 Curb mirror, serial

X1/5 Main and wide-angle mirror + terminal 30

X1/11 Main and wide-angle mirror, earth

X1/9 Main and wide-angle mirror, serial

X2/12 K-line

X1/4 Power supply +15 (serial)

X1/2 Power supply +30 (cab + central locking)

X1/8 Earth, load

X1/17 CAN low

X1/18 CAN high

X2/5 Alarm system

Marking of mounting positions

(A) Tail

®1 Engine

B2 Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

© Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

() Sunroof

F6 Driving seat

F7 Passenger seat

(FB) Control panel

G Battery box

H1 B-pillar on driver's side

H2 A-pillar on driver's side

(J1) B-pillar on passenger's side

(2) A-pillar on passenger's side

Ceiling/roof

N Front axle

P Rear axle

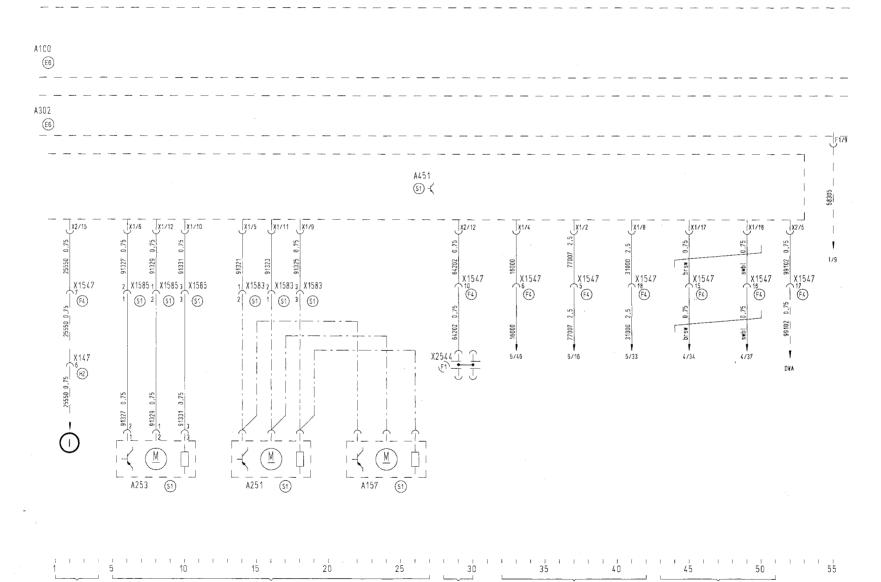
R1) Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.2989 Sheet 2 of 5



Door module (LL)

Legend

Wiring diagram no. **81.99192.2989** Sheet **3** of 5 Change status: 03.01

A = Central locking, passenger door B = Window lift, passenger door

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

A452 (440) Door module (passenger side)

A454 (444) Window lift (passenger side)

A466 (454) Door lock (passenger side)

\$518 (522) Lock nut switch, passenger side \$526 (525) Control switch, window lift, right

X1546 Stvd. door, right X1733 Stvd. switch sunroof

X2542 (246) Potential distributor, 21-pin line 58000

Pin assignment A452:

X2/18 Central locking, lock latch switch E X2/17 Central locking, lock nut switch E

X2/17 Central locking, lock nut switch A

X2/9 Central locking, actuator element locked/unlocked

X2/10 Central locking, actuator element locked/unlocked

X2/8 Central locking, actuator element locked/unlocked

X2/7 Central locking, engine, actuator element +

X2/1 Central locking, engine, actuator element -

X1/13 Window lift, hall sensor 2 signal

X1/14 Window lift, hall sensor 1 signal

X1/15 Window lift, hall sensor 1/2 +

X1/16 Window lift, hall sensor 1/2 -

X1/7 Window lift, engine +

X1/1 Window lift, engine -

X2/14 Close window lift

X2/13 Open window lift

Marking of mounting positions

(A) Tail

®1 Engine

(B2) Gearbox

© Front

© Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

Rear wall of cab

F Instrument panel

© Central part

52 Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

(Locking

Unlocking

6 Driving seat

F7 Passenger seat

⊕ Control panel

(G) Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

(J1) B-pillar on passenger's side

(J2) A-pillar on passenger's side

L Ceiling/roof

N Front axle

P Rear axle

R1 Front part of frame

Rear part of frame

(S1) Door left

© Door right

Wiring diagram no. 81.99192.2989 Sheet 3 of 5 A100 (E6) A302 (E6) A452 (\$2) -{ 1/4 1/3 1/2 1/1 2/2 2/1 1/1 1/2 1/3 1/4 12/1 12/2 S2) A454

Door module (LL)

Legend

Wiring diagram no. **81.99192.2989** Sheet **4** of 5 Change status: 03.01

A = Mirror adjustment/mirror heating, passenger side

B = Power supply, passenger door

C = CAN

X1584

A 100	(255)	Central fuse, relay and terminal block
A156	(450)	Main mirror (passenger)
A252	(448)	Wide-angle mirror (passenger)
A254	(446)	Curb mirror (passenger)
A302	(352)	Central computer 2
A452	(440)	Door module (passenger side)
V 645 V646	(117)	Diode group, door module Diode, waking ZBR
X 1546 X1582		Stvd. door, right Stvd. main and wide-angle mirror, right

Stvd. curb mirror, right

Pin assignment A452:

1 111 400	signment A lozi
X1/6	Curb mirror + terminal 30
X1/12	Curb mirror, earth
X1/10	Curb mirror, serial
X1/5	Main and wide-angle mirror + terminal 30
X1/11	Main and wide-angle mirror, earth
X1/9	Main and wide-angle mirror, serial
X1/4	Power supply +15 (mirror)
X1/2	Power supply +30 (cab + central locking)
X1/8	Earth, load
X1/17	CAN low
X1/18	CAN high
X2/15	Central vehicle computer, hazard warning light

- A Tail
- ®1 Engine
- ®2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- J1 B-pillar on passenger's side
- ② A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2989 Sheet 4 of 5 A100 (E6) A302 (E6) A452 ③2 ≺ 49527 X1546 X1546 15 F5 X1546 2 X1584 1 X1584 3 X1584 1 S2 2 S2 3 S2 1 X1582 2 X1582 3 X1582 2 S2 1 S2 3 S2 A254 S2 A252 S2 À

Door module (LL)

Legend

Wiring diagram no. **81.99192.2989** Sheet **5** of 5 Change status: 03.01

A = Supply voltage

A 100	(255)	Central fuse, relay and terminal block
Δ 302	(352)	Central computer 2

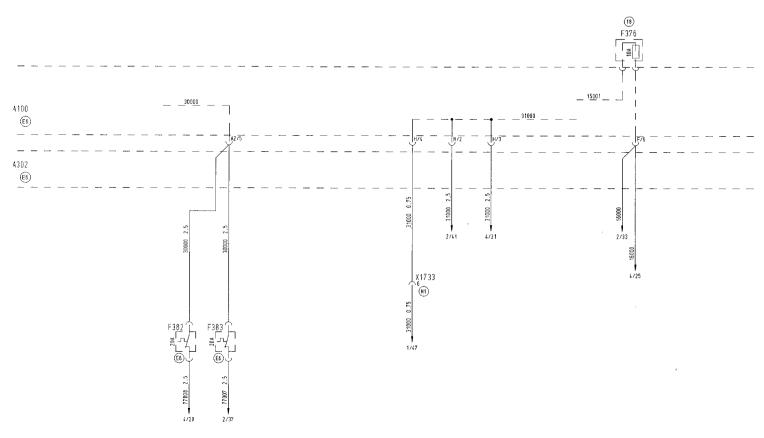
F 376	(101) Fuse, cab interior (terminal 15)
F382	(130) Fuse, door module (terminal 15)
F383	(130) Fuse, door module (terminal 30)

X1733 Stvd. switch sunroof

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2989** Sheet **5** of 5



1 5 10 15 20 25 30 35 40 45 50 55

Door module (RL)

Legend

Wiring diagram no. **81.99192.2990** Sheet **1** of 5 Change status: 03.01

A = Central locking, passenger door

B = Window lift, passenger door

A 100	(255)	Central fuse,	relay and	terminal block

A302 (352) Central computer 2

A451 (440) Door module (passenger side)

A453 (443) Window lift (passenger side)

A465 (453) Door lock (passenger side)

\$519 (522) Lock nut switch, left

S527 (525) Control switch, window lift, left

X1547

Stvd. door, left

X1733

Stvd. switch sunroof

Pin assignment A451:

- X2/18 Central locking, lock latch switch E
- X2/17 Central locking, lock nut switch E
- X2/16 Central locking, lock nut switch A
- X2/9 Central locking, actuator element locked/unlocked
- X2/10 Central locking, actuator element locked/unlocked
- X2/8 Central locking, actuator element locked/unlocked
- X2/7 Central locking, engine, actuator element +
- X2/1 Central locking, engine, actuator element -
- X1/13 Window lift, hall sensor 2 signal
- X1/14 Window lift, hall sensor 1 signal
- X1/15 Window lift, hall sensor 1/2 +
- X1/16 Window lift, hall sensor 1/2 -
- X1/7 Window lift, engine +
- X1/1 Window lift, engine -
- X2/14 Close window lift
- X2/13 Open window lift

- (A) Tail
- ®1) Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Locking
- Unlocking

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- © Door left
- © Door right

Wiring diagram no. 81.99192.2990 Sheet 1 of 5 A100 A302 A451 ⑤1) **-**(1/4 1/3 1/2 1/1 1/2/2 1/1 1/2 1/3 1/4 1/2/2 1/2/2 (51) A453 A465 S1

Door module (RL)

Legend

Wiring diagram no. 81.99192.2990 Sheet 2 of 5 Change status: 03.01

A = Mirror adjustment/mirror heating, passenger door

B = Power supply, passenger door

C = CAN

X1585

A 100	(255)	Central fuse, relay and terminal block
A157	(449)	Main mirror (passenger side)
A251	(447)	Wide-angle mirror (passenger side)
A253	(445)	Curb mirror (passenger side)
A302	(352)	Central computer 2
A451	(440)	Door module (passenger side)
V 645	(117)	Diode group, door module
V646	, ,	Diode, waking ZBR
X 1547		Stvd. door, left
X1583		Stvd. main and wide-angle mirror, left

Stvd. curb mirror, left

Pin ass	signment A451:
X1/6	Curb mirror + terminal 30
X1/12	Curb mirror, earth
X1/10	Curb mirror, serial
X1/5	Main and wide-angle mirror + terminal 30
X1/11	Main and wide-angle mirror, earth
X1/9	Main and wide-angle mirror, serial
X1/4	Power supply +15 (mirror)
X1/2	Power supply +30 (cab + central locking)
X1/8	Earth, load
X1/17	CAN low
X1/18	CAN high
X2/15	Central vehicle computer, hazard warning ligh

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- (F6) Driving seat
- (F7) Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2990 Sheet 2 of 5 A100 (E6) A302 A451 ⑤1) ≺ X1547 X1583 2 X1583 3 X1583 2 S1 S S S X1547 X1547 2 X1585 1 X1585 3 X1585 1 S1 2 S1 3 S1 $-\frac{1}{A251} \frac{1}{31}$

Door module (RL)

Legend

Wiring diagram no. **81.99192.2990** Sheet **3** of 5 Change status: 03.01

A = Central locking, driver's door A = Window lift, driver's door

A100 (255) Central fuse, relay and terminal block A302 (352) Central computer 2

A452 (441) Door module (driver's side) A454 (443) Window lift (driver side)

A466 (454) Door lock (driver's side)

\$518 (522) Lock nut switch, driver's door S526 (525) Control switch, window lift, right

X1546 Stvd. door, right X1733 Stvd. switch sunroof

X2542 (246) Potential distributor, 21-pin line 58000

Pin assignment A451:

X2/18 Čentral locking, lock latch switch E X2/17 Central locking, lock nut switch E X2/16 Central locking, lock nut switch A

X2/9 Central locking, actuator element locked/unlocked X2/10 Central locking, actuator element locked/unlocked

X2/8 Central locking, actuator element locked/unlocked

X2/7 Central locking, engine, actuator element + X2/1 Central locking, engine, actuator element -

X1/13 Window lift, hall sensor 2 signal X1/14 Window lift, hall sensor 1 signal

X1/14 Window lift, hall sensor 1/2 +

X1/16 Window lift, hall sensor 1/2 -

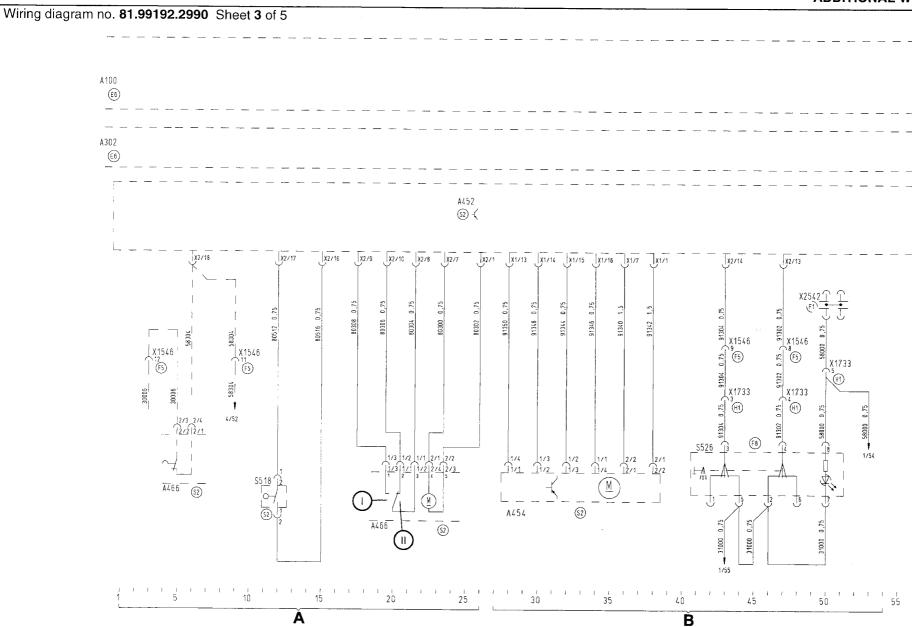
X1/7 Window lift, engine + X1/1 Window lift, engine -

X2/14 Close window lift

X2/13 Open window lift

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- © Bumper
- © Entrance right
- ©3 Entrance left
- (E6) Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Locking
- Unlocking

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- (N) Front axle
- (P) Rear axle
- R1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right



Door module (RL)

Legend

Wiring diagram no. **81.99192.2990** Sheet **4** of 5 Change status: 03.01

A = Mirror adjustment/mirror heating, driver's door

B = Power supply, driver's door

C = CAN

D = Sunroof

E = Diagnosis

A100 (255) Central fuse, relay and terminal block

A157 (450) Main mirror (driver)

A252 (448) Wide-angle mirror (driver)

A254 (446) Curb mirror (driver)

A302 (352) Central computer 2

A452 (441) Door module (driver's side)

X147 Stvd. sunroof/roof hatch

X1546 Stvd. door right

X1582 Stvd. main and wide-angle mirror, right

X1584 Stvd. curb mirror, right

X2544 (246) Potential distributor 21-pin K-line

Pin assignment A452:

X1/6 Curb mirror + terminal 30

X1/12 Curb mirror, earth

X1/10 Curb mirror, serial

X1/5 Main and wide-angle mirror + terminal 30

X1/11 Main and wide-angle mirror, earth

X1/9 Main and wide-angle mirror, serial

X1/4 Power supply +15 (serial)

X1/2 Power supply +30 (cab + central locking)

X1/8 Earth, load

X1/17 CAN low

X1/18 CAN high

X2/15 Sunroof

X2/12 K-line

X2/5 Alarm system

Marking of mounting positions

(A) Tail

¹ Engine

(B2) Gearbox

© Front

©1 Bumper

© Entrance right

© Entrance left

© Central electrics area

© Control unit racks

® Rear wall of cab

F Instrument panel

© Central part

Steering wheel/column

F3 Foot pedals

F4 Front wall, inside left

F5 Front wall, inside right

) Sunroof

6 Driving seat

Passenger seat

(F8) Control panel

(G) Battery box

(H1) B-pillar on driver's side

(H2) A-pillar on driver's side

J1 B-pillar on passenger's side

A-pillar on passenger's side

(L) Ceiling/roof

N Front axle

(P) Rear axle

R1 Front part of frame

Rear part of frame

© Door left

© Door right

Wiring diagram no. **81.99192.2990** Sheet **4** of 5 A100 A302 (E6) A452 (S2) -(2 X1584 1 X1584 3 X1584 1 S2 2 S2 3 S2 1 X1582 2 X1582 3 X1582 2 S2 1 S2 3 S2 A254 A252 A156 (52)

Door module (RL)

Legend

Wiring diagram no. **81.99192.2990** Sheet **5** of 5 Change status: 03.01

A = Supply voltage

A100 (255) Central fuse, relay and terminal block

A302 (352) Central computer 2

F376 (101) Fuse, cab interior (terminal 15)

F382 (130) Fuse, door module (terminal 15)

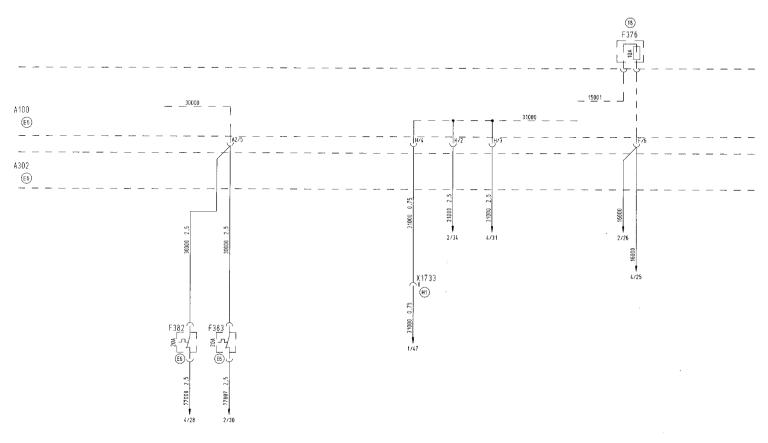
F383 (130) Fuse, door module (terminal 30)

X1733. Stvd. switch sunroof

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- (i) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- F2 Steering wheel/column
- F3 Foot pedals
- Fa Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ®1 Front part of frame
- Rear part of frame
- ©1 Door left
- © Door right

Wiring diagram no. 81.99192.2990 Sheet 5 of 5



K 90 4.22 - 1

Preparation for cooling superstructure (tractor vehicle)

Legend

X669

Wiring diagram no. **81.99192.1469** Sheet **1** of 2 Change status: 05.01

A = Preparation for cooling, superstructure

A 100 A302 A403	(352)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer
F 558	(129)	Fuse, cooling superstructure
H 408 H410 H412	(104)	Indicator light block, cooling, superstructure, tractor vehicle Indicator light, cooling, superstructure, tractor vehicle Indicator light, cooling, superstructure, defrost, tractor vehicle
K 869 K870 K871 K888	(283) (281)	, , , , , , , , , , , , , , , , , , ,
S 764 S765		Switch, cooling, superstructure, tractor vehicle Control switch, cooling, superstructure, defrost,

X1754		Soldered connector, line 59104
X1757		Soldered connector, line 16006
X1996		Stvd. intermediate speed control interface
X2491		Stvd. ZDR/cooling superstructure
X2509	(203)	Relay base K869, K870
X2541	(246)	Potential distributor, 21-pin line 31000
X2542	(246)	Potential distributor, 21-pin line 58000

tractor vehicle

Stvd. start inhibitor

Marking of mounting positions

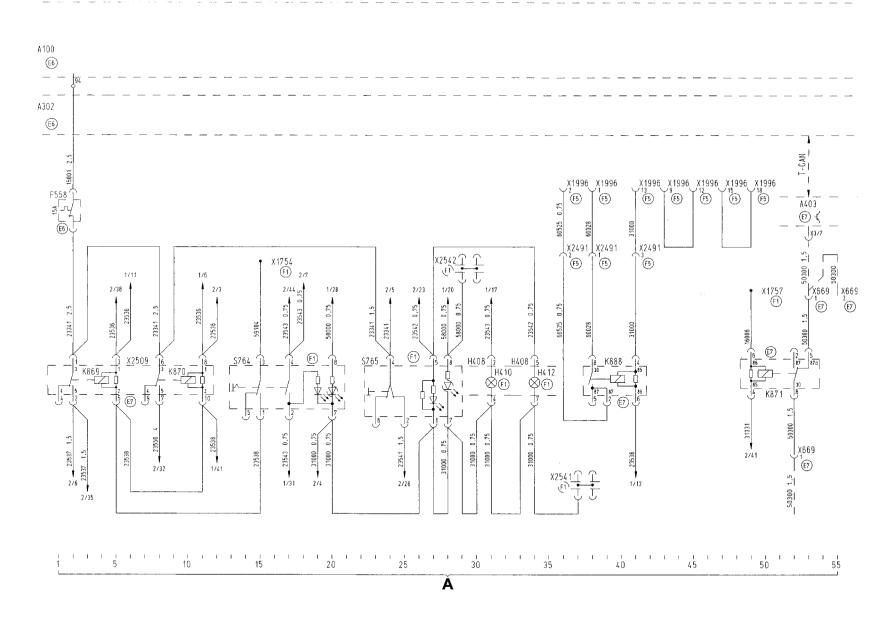
- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals

(FFR)

- Fa Front wall, inside left
- Font wall, inside right

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1469 Sheet 1 of 2



Preparation cooling superstructure (tractor vehicle)

Legend

Wiring diagram no. **81.99192.1469** Sheet **2** of 2 Change status: 05.01

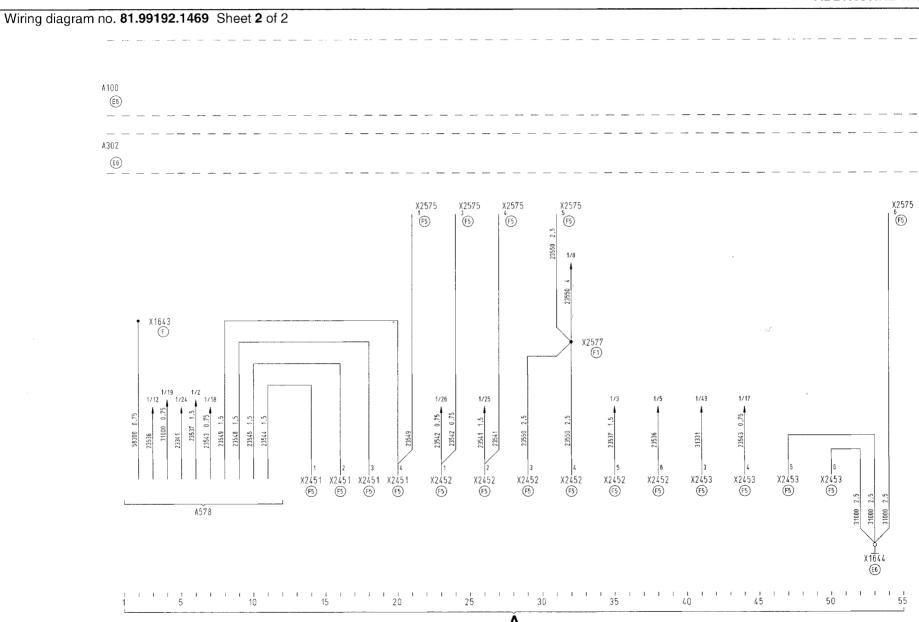
A = Preparation, cooling, superstructure

A 100 A 302		Central fuse, relay and terminal block Central computer 2
A578	()	Cooling superstructure
X 1643		Crimped connector, line 58300
X1644		Earthing point, cab, adjacent to central fuse,
		relay and terminal block
X2451		Stvd. cooling superstructure
X2452		Stvd. cooling superstructure
X2453		Stvd. cooling superstructure
X2575		Stvd. cooling superstructure
X2577	(221)	Crimped connector, line 23550

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- (F1) Central part
- F2 Steering wheel/column
- Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right





Preparation cooling superstructure (tractor vehicle, trailer)

Legend

Wiring diagram no. **81.99192.1468** Sheet **1** of 3 Change status: 05.01

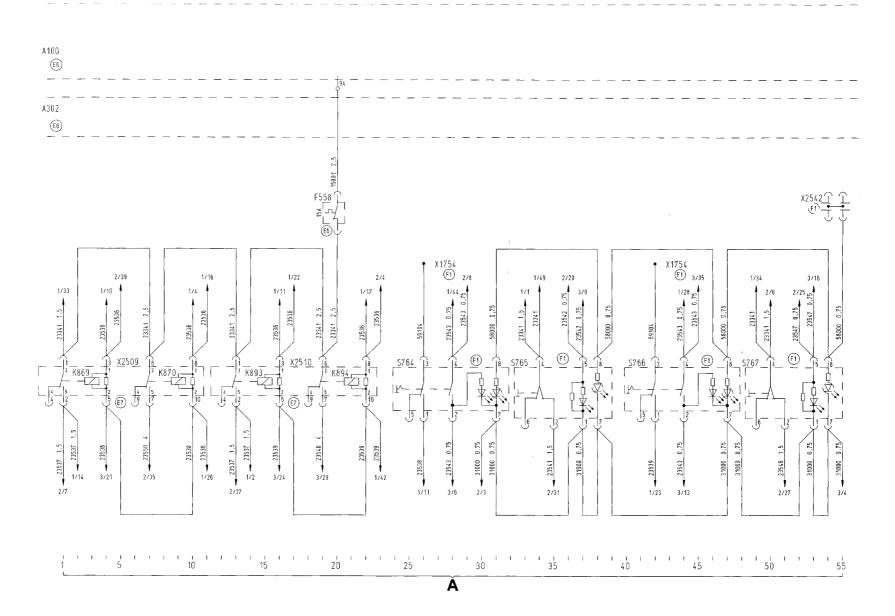
A = Preparation, cooling, superstructure

A 100 A302	. ,	Central fuse, relay and terminal block Central computer 2
F 558	(129)	Fuse, cooling superstructure
K 869 K870 K893 K894	(283) (283)	Relay I, cooling, superstructure, tractor vehicle Relay II, cooling, superstructure, tractor vehicle Relay I, cooling, superstructure, trailer Relay II, cooling, superstructure, trailer
S 764 S765	(678)	Switch, cooling, superstructure, tractor vehicle Control switch, cooling, superstructure, defrost, tractor vehicle
S766 S767		Switch, cooling, superstructure, trailer Control switch, cooling, superstructure, defrost, trailer
	(203)	Soldered connector, line 59104 Relay base K869, K870 Relay base K893, K894 Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- © Bumper
- ② Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- ① B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1468 Sheet 1 of 3



Preparation cooling superstructure (tractor vehicle, trailer)

Legend

Wiring diagram no. **81.99192.1468** Sheet **2** of 3 Change status: 05.01

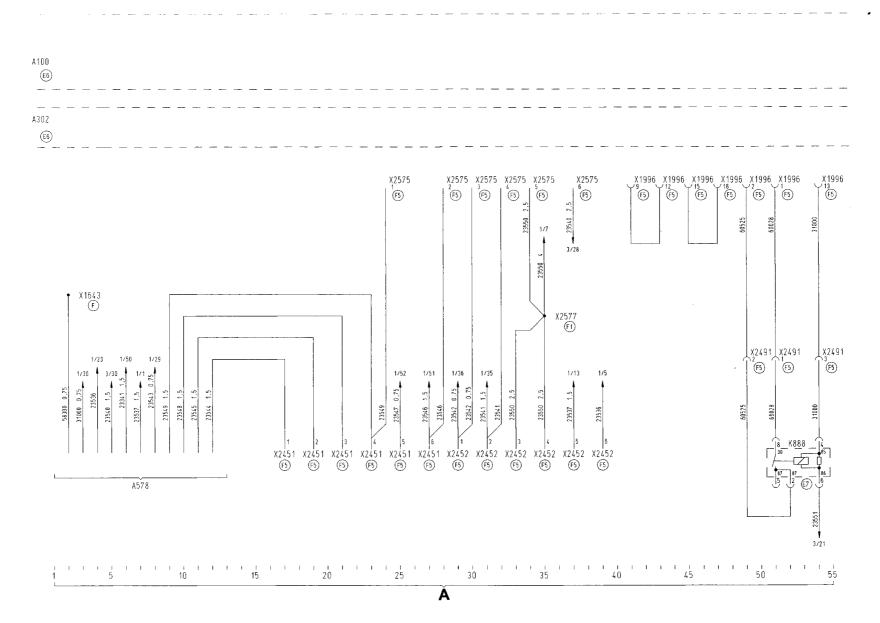
A = Preparation, cooling, superstructure

A 100 A302 A578		Central fuse, relay and terminal block Central computer 2 Cooling superstructure
K 888	(280)	Relay ZDR/cooling superstructure
X1643 X1996 X2451 X2452 X2491 X2575 X2577	(221)	Crimped connector, line 58300 Stvd. intermediate speed control interface (FFR) Stvd. cooling superstructure Stvd. cooling superstructure Stvd. ZDR/cooling superstructure Stvd. cooling superstructure Crimped connector, line 23550

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1468 Sheet 2 of 3



Preparation cooling superstructure (tractor vehicle, trailer)

Legend

Wiring diagram no. **81.99192.1468** Sheet **3** of 3 Change status: 05.01

A = Preparation, cooling, superstructure

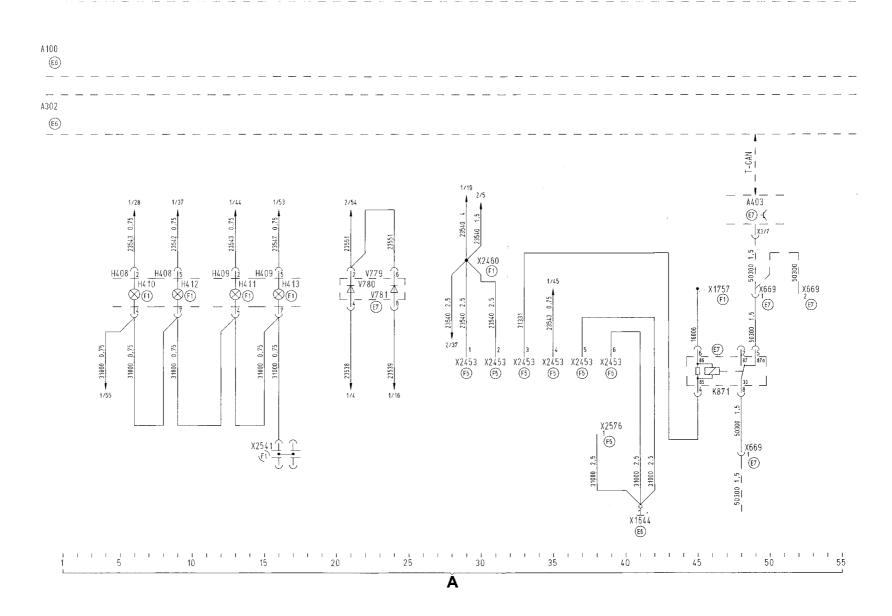
A 100 A302 A403	(352)	Central fuse, relay and terminal block Central computer 2 Vehicle management computer
H408 H409 H410 H411 H412	(155) (104) (104) (104)	Indicator light block, cooling, superstructure, tractor vehicle Indicator light block, cooling, superstructure, trailer Indicator light, cooling, superstructure, tractor vehicle Indicator light, cooling, superstructure, trailer Indicator light, cooling, superstructure, defrost, tractor vehicle Indicator light, cooling, superstructure, defrost, trailer
K 871	(281)	Relay, start inhibitor for cooling superstructure
V 779 V780 V781	(117)	Diode group, ZDR/cooling superstructure Diode, ZDR/cooling superstructure, tractor vehicle Diode, ZDR/cooling superstructure, trailer
X 669 X1644		Stvd. start inhibitor Earthing point, cab, adjacent to central fuse, relay and terminal block
X1757 X2453 X2460 X2541 X2576		Soldered connector, line 16006 Stvd. cooling superstructure Crimped connector, line 23540 Potential distributor, 21-pin line 31000 Stvd. cooling superstructure

- (A) Tail
- B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. **81.99192.1468** Sheet **3** of 3



Preparation LSVA (performance-related heavy traffic levy)

Legend

Wiring diagram no. **81.99192.1464** Sheet **1** of 1 Change status: 05.01

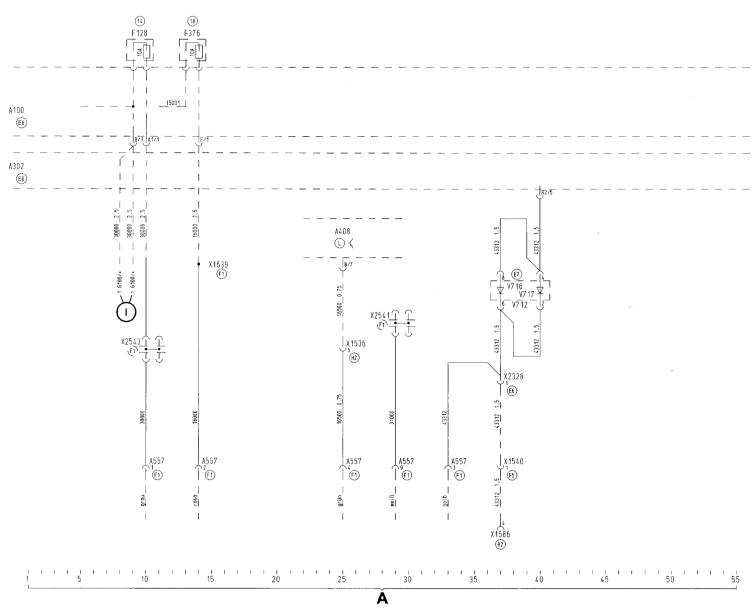
A = Preparation for LSVA

A 100 A302 A408 A557	(352)	Central fuse, relay and terminal block Central computer 2 Tachograph LSVA recording device
F 128 F376		Fuse, permanent consumer Fuse, cab interior (terminal 15)
V 712 V716 V717	(117)	Diode group, load detection, trailer Diode, load detection, trailer Diode, load detection, trailer
X1536 X1540 X1586 X1639 X2328 X2541 X2543	,	Stvd. cab tachograph Stvd. frame I Stvd. connection to trailer lighting socket 1 Soldered connector, line 16000 Stvd. 2-pin adaptation trailer light Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 30006
72J4J	(40)	i oterital distributor, 2 i più inte 30000

- (A) Tail
- ^{B1} Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Battery 1

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1464 Sheet 1 of 1



Preparation trailing axle control, semitrailer

Legend

Wiring diagram no. **81.99192.1465** Sheet **1** of 1 Change status: 05.01

A = Preparation trailing axle control, semitrailer

A 100	(255)	Central fuse, relay and terminal bloo	сk
Λ 302	(352)	Central computer 2	

A302 (352) Central computer 2

F201 (118) Fuse, trailing axle control, semitrailer

\$250 (543) Switch, raise trailing axle S251 (544) Traction help control switch

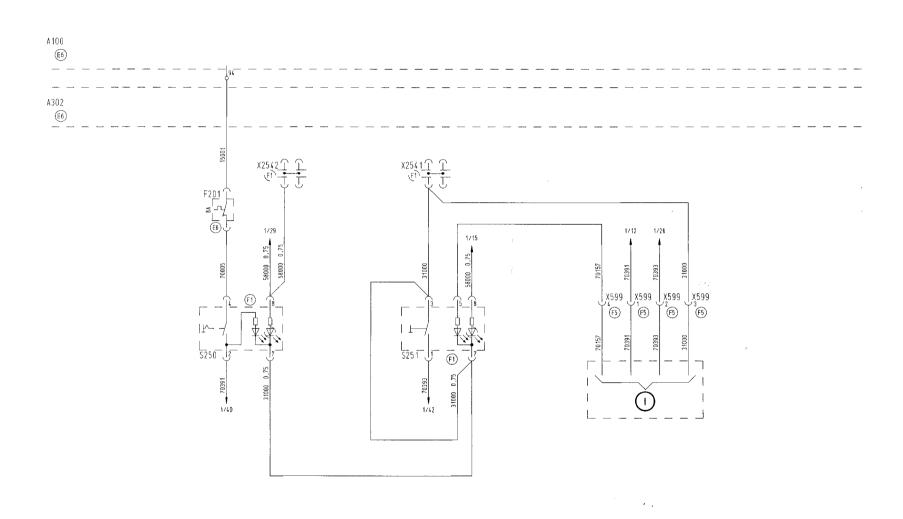
X599 Stvd. trailing axle control, semitrailer X2541 (246) Potential distributor, 21-pin line 31000 X2542 (246) Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right
- Roll up cables behind cab

- 6 Driving seat
- F7 Passenger seat
- © Battery box
- (HI) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right



Wiring diagram no. 81.99192.1465 Sheet 1 of 1



À

1 5 10 15 20 25 30 35 40 45 50 55

Preparation, central lubrication

Legend

Wiring diagram no. **81.99192.1466** Sheet **1** of 1 Change status: 05.01

A = Central lubrication

A 100 A302 A407	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation
H 116		Indicator light, central lubrication
M 131	(147)	Central lubrication pump
S 407	(556)	Control switch, intermediate lubrication
X 718 X2541 X2542		Stvd. cab central lubrication Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- © Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- (F8) Control panel
- (G) Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- S2 Door right

Wiring diagram no. **81.99192.1466** Sheet **1** of 1 A100 A302 **E**6

1 5 20 25 30 35 40 45 50 55

K 90 4.23 - 1

Vehicle immobiliser

Legend

Wiring diagram no. **81.99192.2476** Sheet **1** of 1 Change status: 11.00

A = Vehicle immobiliser

A 100	(255)	Central fuse, relay and terminal block
		Central computer 2
A403	(339)	Vehicle management computer
A477	(371)	Electronics, vehicle immobiliser

Q 101	(110)	Steering	wheel	lock
--------------	-------	----------	-------	------

X 669 X1639 X1642 X1966	Stvd. start inhibitor Soldered connector, line 16000 Earthing point, cab, behind instrument panel Stvd. ignition lock
X1900 X1971	Stvd. ignition lock Stvd. vehicle immobiliser
X19/1	Stva. venicie inimobiliser

- (A) Tail
- ®1 Engine
- ®2 Gearbox
- © Front
- (1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2476 Sheet 1 of 1

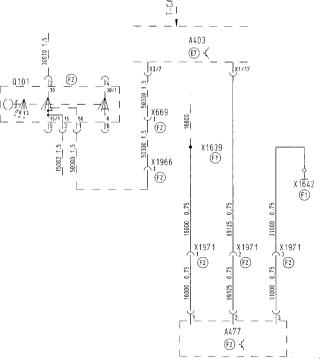
A100 (E)

A302

(E)

NAI

L



1 5 10 15 20 25 30 35 40 45 50 55

K 90 4.26 - 1

Central lubrication

Legend

Wiring diagram no. **81.99192.1467** Sheet **1** of 1 Change status: 05.01

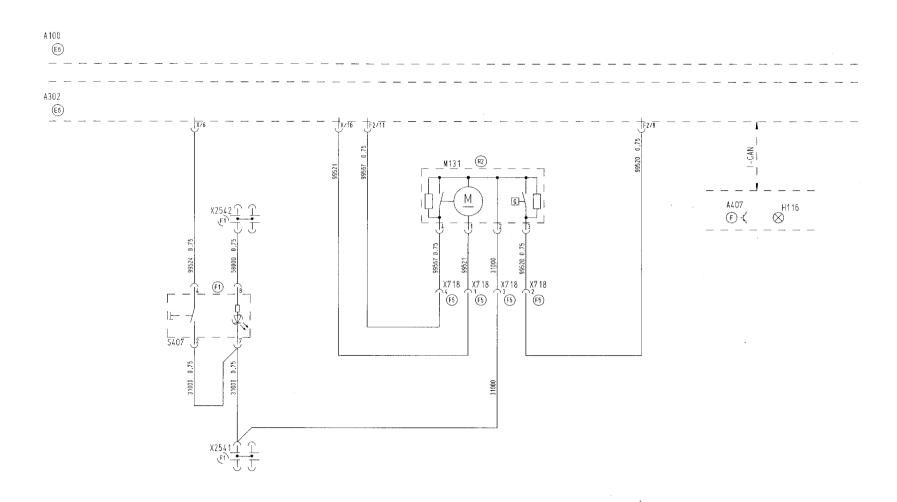
A = Central lubrication

A 100 A302 A407	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation
H 116		Indicator light, central lubrication
M 131	(147)	Central lubrication pump
S 407	(556)	Control switch, intermediate lubrication
X 718 X2541 X2542		Stvd. cab – central lubrication Potential distributor, 21-pin line 31000 Potential distributor, 21-pin line 58000

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- 6 Driving seat
- Passenger seat
- ® Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1467 Sheet 1 of 1



Α

Supplementary heating D1LCC/D3LCC with TRS

Legend

Wiring diagram no. **81.99192.1472** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating Eberspächer D1LCC/D3LCC with TRS

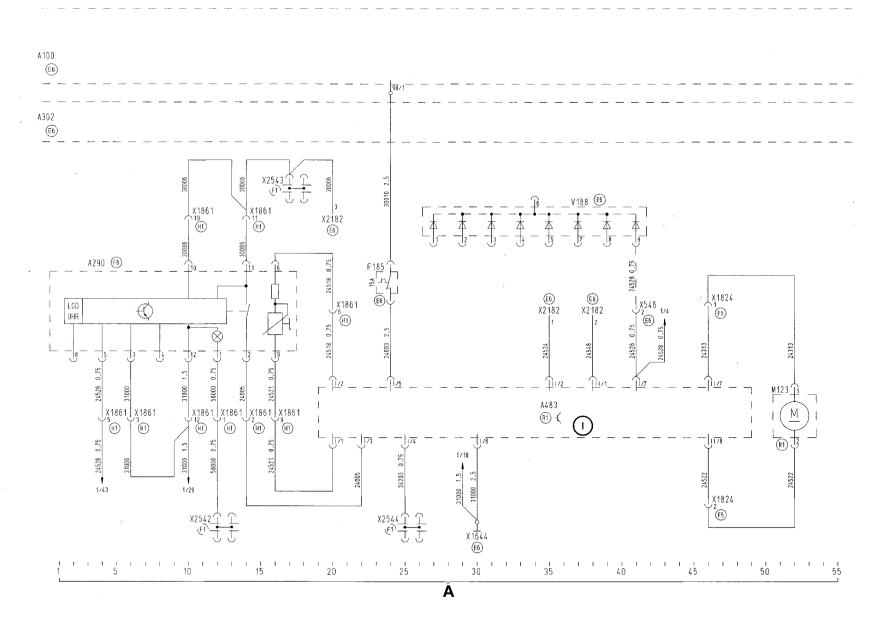
A 100 A290 A302 A483	(379) (352)	Central fuse, relay and terminal block Keypad for supplementary heating (clock/thermostat) Central computer 2 Scope of delivery: supplementary hot-air heating
F 185	(129)	Fuse, supplementary heating
M 123	(152)	Metering pump, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 546		Stvd. supplementary heating, battery main switch, electrical
X1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1824		Stvd. cab, metering pump, supplementary heating
X1861		Stvd. cab keypad, supplementary heating
X2182		Stvd. TRS shutdown, air heating

X2542 (246) Potential distributor, 21-pin line 58000 X2543 (246) Potential distributor, 21-pin line 30006 X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery from Eberspächer

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1472 Sheet 1 of 1



Supplementary heating D1LCC/D3LCC without TRS

Legend

Wiring diagram no. **81.99192.1471** Sheet **1** of 1 Change status: 05.01

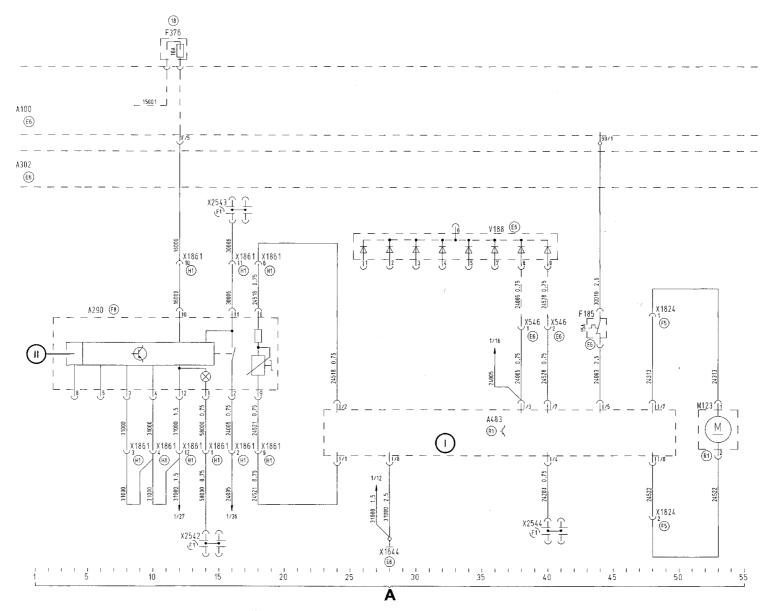
A = Supplementary heating Eberspächer D1LCC/D3LCC without TRS

A 100 A290 A302 A483	(379) (352)	Central fuse, relay and terminal block Keypad for supplementary heating (clock/thermostat) Central computer 2 Scope of delivery: supplementary hot-air heating
F 185 F376		Fuse, supplementary heating Fuse, cab interior (terminal 15)
M 123	(152)	Metering pump, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 546		Stvd. supplementary heating, battery main switch, electrical
X1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X1824		Stvd. cab, metering pump, supplementary heating
X1861		Stvd. cab keypad, supplementary heating
X2542		Potential distributor, 21-pin line 58000
X2543		Potential distributor, 21-pin line 30006
X2544	(246)	Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery from Eberspächer
- LCD clock

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- B-pillar on passenger's side
- A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- Pront part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1471 Sheet 1 of 1



Supplementary heating D5W with TRS

Legend

Wiring diagram no. **81.99192.1478** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating D5W with TRS

A100 (255) Control fuce relay and terminal block

X2543 (246) Potential distributor, 21-pin line 30006

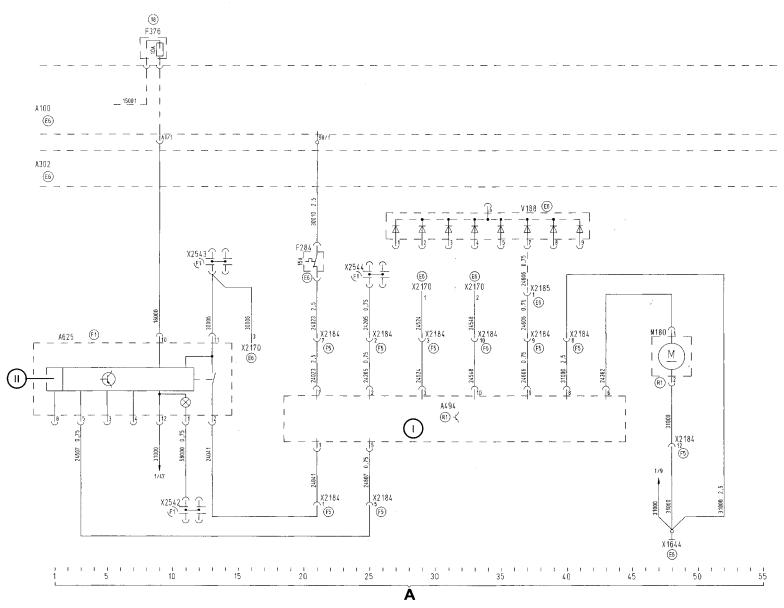
X2544 (246) Potential distributor 21-pin K-line

A302 A494 A625	(352) (510)	Central ruse, relay and terminal block Central computer 2 Auxiliary water heating Keypad, supplementary water heating
F 284 F376		Fuse, supplementary heating Fuse, cab interior (terminal 15)
M 180	(153)	Metering pump 2, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X2170		Stvd. TRS shutdown, water heating
X2184		Stvd. cab – supplementary water heater
X2185		Stvd. supplementary water heating - battery isolator switch
X2542	(246)	Potential distributor, 21-pin line 58000

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- (F2) Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery from Eberspächer
- (II) LCD clock

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1478 Sheet 1 of 1



Supplementary heating D5W without TRS

Legend

Wiring diagram no. **81.99192.1477** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating D5W without TRS

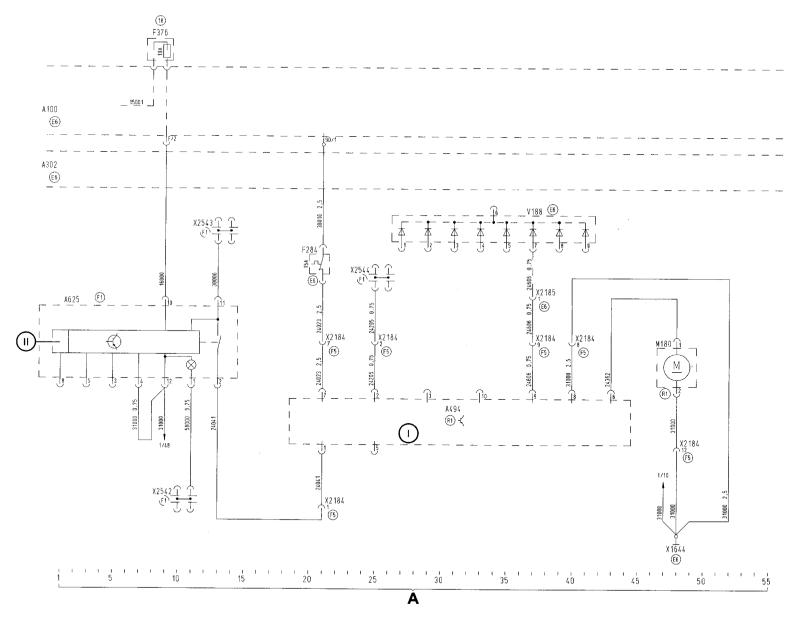
A100 (255) Central fuse, relay and terminal block

A302 A494 A625	(510)	Central computer 2 Auxiliary water heating Keypad, supplementary water heating
F 284 F376		Fuse, supplementary heating Fuse, cab interior (terminal 15)
M 180	(153)	Metering pump 2, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X2184 X2185 X2542 X2543 X2544	(246)	Stvd. cab – supplementary water heater Stvd. supplementary water heating – battery isolator switch Potential distributor, 21-pin line 58000 Potential distributor, 21-pin line 30006 Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery from Eberspächer
- (II) LCD clock

- 6 Driving seat
- Passenger seat
- ® Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1477 Sheet 1 of 1



Supplementary heating Thermo 50 with TRS

Legend

Wiring diagram no. **81.99192.1476** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating Thermo 50 with TRS

A 100 A302 A494 A625	(352) (510)	Central fuse, relay and terminal block Central computer 2 Auxiliary water heating Keypad, supplementary water heating
F 284 F376		Fuse, supplementary heating Fuse, cab interior (terminal 15)
M 180	(158)	Metering pump 2, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emerge

- **X**1644 Earthing point, cab, adjacent to central fuse, relay and terminal block
- X2170 Stvd. TRS shutdown, water heating X2184 Stvd. cab – supplementary water heater

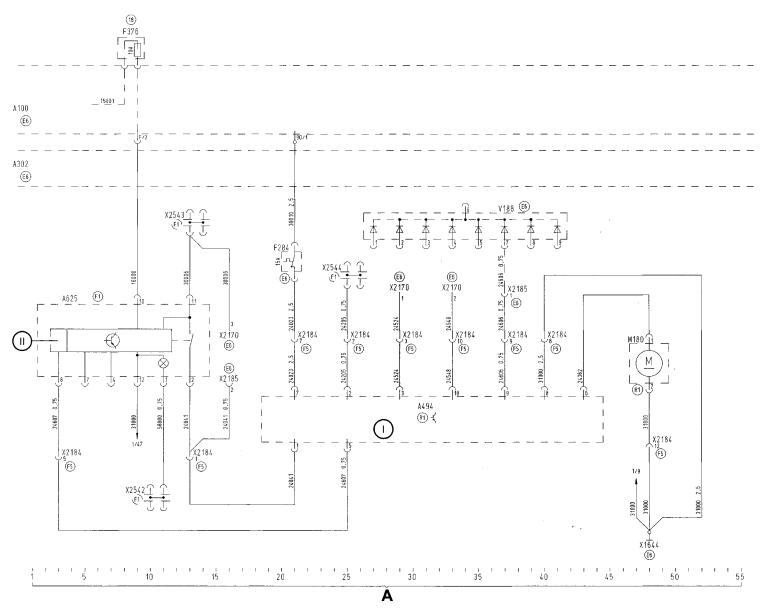
switch

- X2185 Stvd. supplementary water heating battery isolator switch
- X2542 (246) Potential distributor, 21-pin line 58000
- X2543 (246) Potential distributor, 21-pin line 30006
- X2544 (246) Potential distributor 21-pin K-line

- (A) Tail
- B1 Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Font wall, inside right
- Scope of delivery, Webasto
- (II) LCD clock

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1476 Sheet 1 of 1



Supplementary heating Thermo 50 without TRS

Legend

Wiring diagram no. **81.99192.1475** Sheet **1** of 1 Change status: 05.01

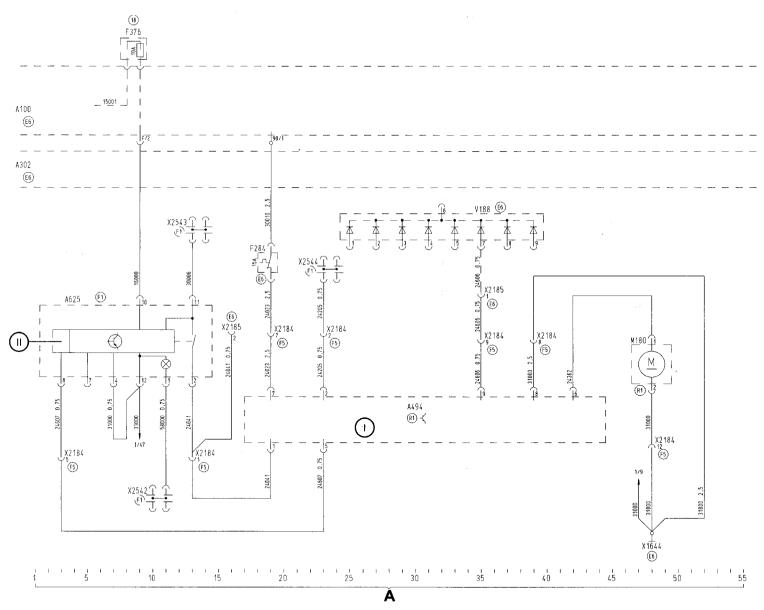
A = Supplementary heating Thermo 50 without TRS

A 100 A302 A494 A625	(352) (510)	Central fuse, relay and terminal block Central computer 2 Auxiliary water heating Keypad, supplementary water heating
F 284 F376		Fuse, supplementary heating Fuse, cab interior (terminal 15)
M 180	(158)	Metering pump 2, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 1644		Earthing point, cab, adjacent to central fuse, relay and terminal block
X2184 X2185 X2542 X2543 X2544	(246)	Stvd. cab – supplementary water heater Stvd. supplementary water heating – battery isolator switch Potential distributor, 21-pin line 58000 Potential distributor, 21-pin line 30006 Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery, Webasto
- | LCD clock

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- R1 Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1475 Sheet 1 of 1



Supplementary heating, TRS shutdown

Legend

Wiring diagram no. **81.99192.2621** Sheet **1** of 1 Change status: 07.99

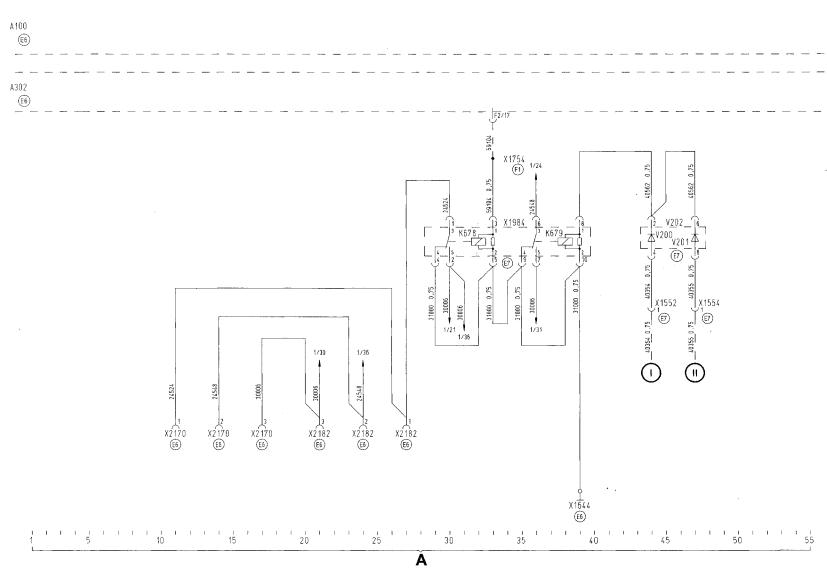
A = Supplementary heating, TRS shutdown

A 100 A302		Central fuse, relay and terminal block Central computer 2
K 678 K679		Relay, supplementary heating, TRS shutdown Relay, supplementary heating, TRS shutdown
V 200 V201 V202	(117)	Diode, power take-off 1 Diode, power take-off 2 Diode group V200, V201
X 1552 X1554 X1644		Stvd. power take-off I/TRS heating Stvd. power take-off II/TRS heating Earthing point, cab, adjacent to central fuse, relay and terminal block
X1754 X1984 X2170 X2182	(203)	Crimped connector, line 59104

- (A) Tail
- ®1 Engine
- ®2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- Front wall, inside right
- Power take-off 1
- Power take-off 2

- 6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- Battery box
- H1 B-pillar on driver's side
- (H2) A-pillar on driver's side
- J B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. **81.99192.2621** Sheet **1** of 1



Supplementary heating Truma E24-2 with TRS

Legend

Wiring diagram no. **81.99192.1480** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating Truma E24-2 with TRS

A 100	(255)	Centi	ral fuse,	relay	and	termin	al bl	lock	
	(00-1							, ,	

A290 (395) Keypad for supplementary heating (clock/thermostat)

A302 (352) Central computer 2

A489 (396) Supplementary gas heating

F185 (122) Fuse, supplementary heating

V188 (120) Diode group, 8 times, for battery emergency shutdown switch

X546 Stvd. supplementary heating, main battery switch (electric)

X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1861 Stvd. cab keypad, supplementary heating

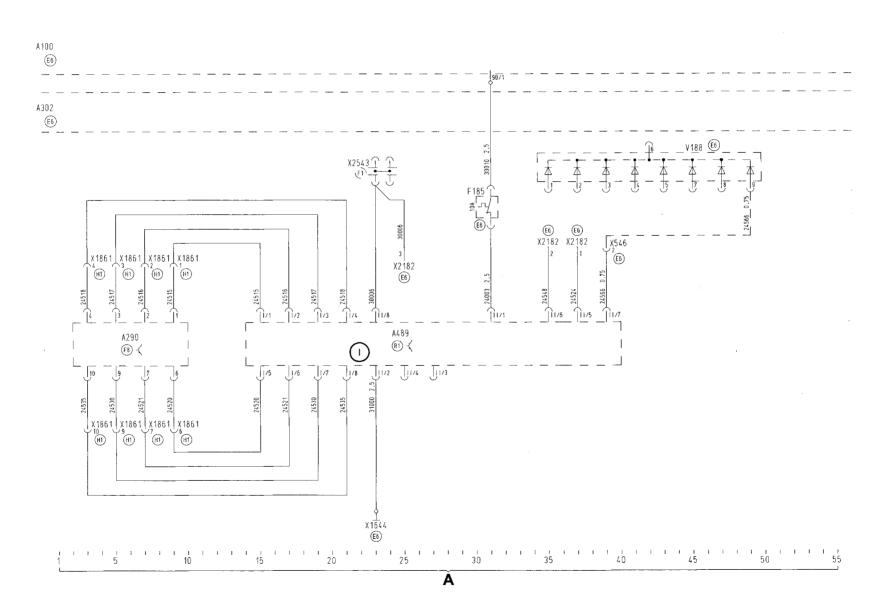
X2182 Stvd. TRS shutdown, hot-air heating

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- B2 Gearbox
- © Front
- © Bumper
- ② Entrance right
- © Entrance left
- 6 Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- (F) Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery, Truma

- 6 Driving seat
- F7 Passenger seat
- ® Control panel
- Battery box
- (H1) B-pillar on driver's side
- H2 A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right

Wiring diagram no. 81.99192.1480 Sheet 1 of 1



4.26 - 19

Supplementary heating Truma E24-2 without TRS

Legend

Wiring diagram no. **81.99192.1479** Sheet **1** of 1 Change status: 05.01

A = Supplementary heating Truma E24-2 without TRS

A 100 (2	255)	Central	fuse,	relay	and	terminal	block
-----------------	------	---------	-------	-------	-----	----------	-------

A290 (395) Keypad for supplementary heating (clock/thermostat)

A302 (352) Central computer 2

A489 (396) Supplementary gas heating

F185 (122) Fuse, supplementary heating

S114 (575) Time switch, supplementary heating

V188 (120) Diode group, 8 times, for battery emergency shutdown switch

X546 Stvd. supplementary heating, main battery switch (electric) X1644 Earthing point, cab, adjacent to central fuse,

relay and terminal block

X1861 Stvd. cab keypad, supplementary heating

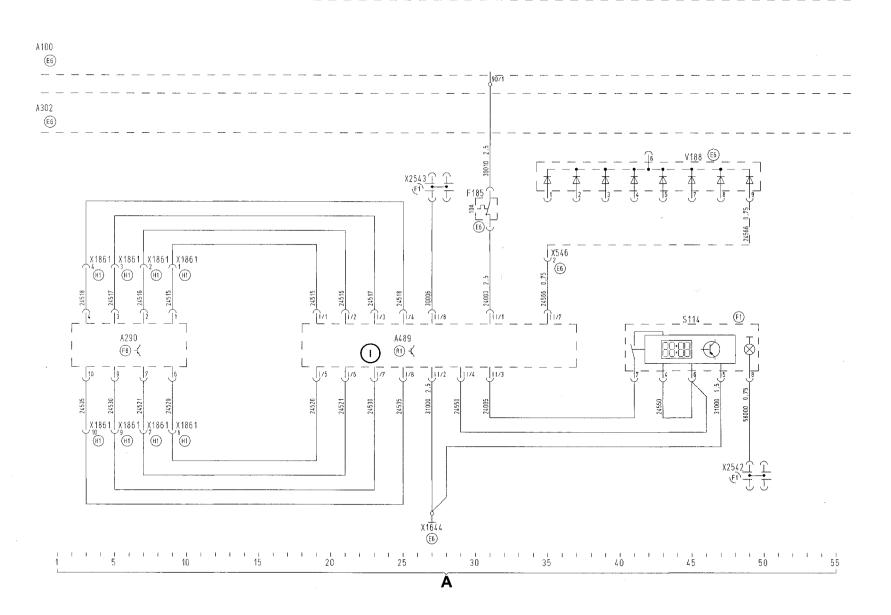
X2542 (246) Potential distributor, 21-pin line 58000

X2543 (246) Potential distributor, 21-pin line 30006

- (A) Tail
- (B1) Engine
- (B2) Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- (E8) Rear wall of cab
- F Instrument panel
- © Central part
- Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery, Truma

- F6 Driving seat
- F7 Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- (P) Rear axle
- R1 Front part of frame
- (R2) Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1479 Sheet 1 of 1



Supplementary heating Webasto Airtop 2000 OEM and 3500 with TRS

Legend

Wiring diagram no. **81.99192.1473** Sheet **1** of 1 Change status: 05.01

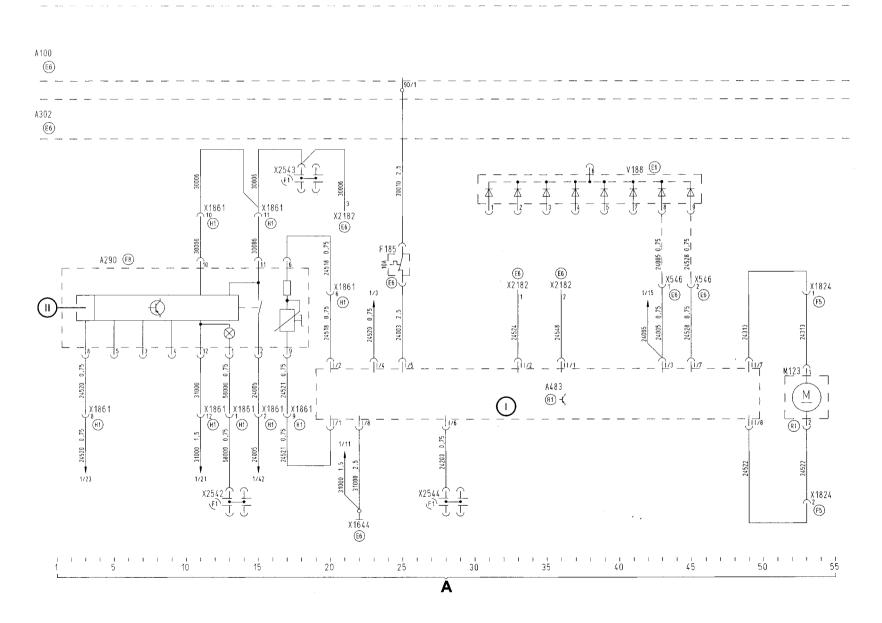
A = Supplementary heating Webasto Airtop 2000 OEM and 3500 with TRS

A100 A290 A302 A483	(381) (352)	Central fuse, relay and terminal block Keypad for supplementary heating (clock/thermostat) Central computer 2 Scope of delivery: supplementary hot-air heating
F 185	(122)	Fuse, supplementary heating
M 123	(158)	Metering pump, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 546 X1644		Stvd. supplementary heating, main battery switch (electric) Earthing point, cab, adjacent to central fuse, relay and terminal block
X1824		Stvd. cab, metering pump, supplementary heating
X1861		Stvd. cab keypad, supplementary heating
X2182		Stvd. TRS shutdown, hot-air heating
X2542		Potential distributor, 21-pin line 58000
X2543		Potential distributor, 21-pin line 30006
X2544	(246)	Potential distributor 21-pin K-line

- (A) Tail
- ®1 Engine
- ®2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- Scope of delivery, Webasto
- LCD clock

- F6 Driving seat
- Passenger seat
- (F8) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (1) B-pillar on passenger's side
- A-pillar on passenger's side
- Ceiling/roof
- N Front axle
- P Rear axle
- ® Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.1473 Sheet 1 of 1



Supplementary heating Webasto Airtop 2000 OEM and 3500 without TRS

Legend

Wiring diagram no. **81.99192.1474** Sheet **1** of 1 Change status: 05.01

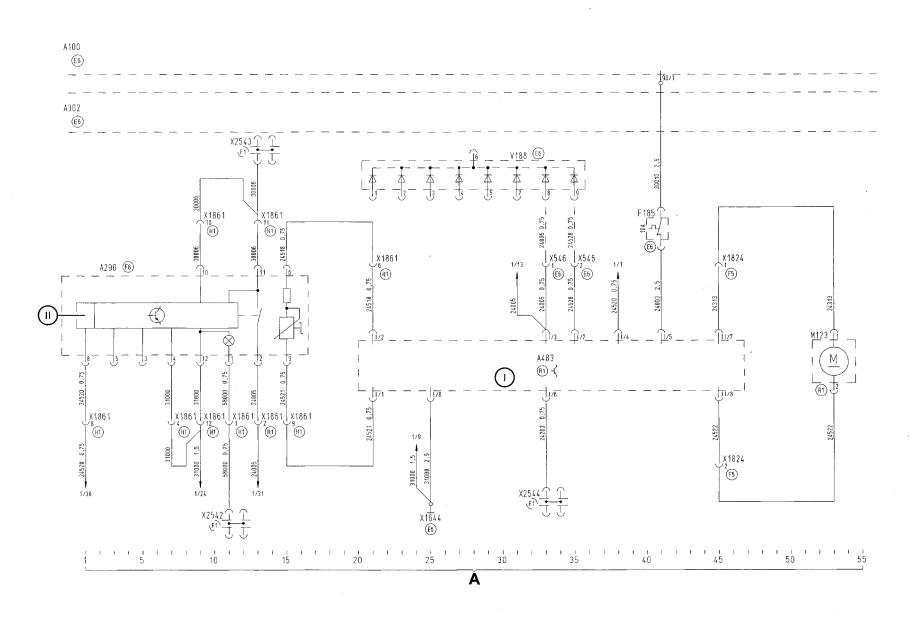
A = Supplementary heating Webasto Airtop 2000 OEM and 3500 without TRS

(255) Central fuse, relay and terminal block

A290 A302 A483	(381) (352)	Keypad for supplementary heating (clock/thermostat) Central computer 2 Scope of delivery: supplementary hot-air heating
F 185	(122)	Fuse, supplementary heating
M 123	(153)	Metering pump, supplementary heating
V 188	(120)	Diode group, 8 times, for battery emergency shutdown switch
X 546 X1644		Stvd. supplementary heating, main battery switch (electri Earthing point, cab, adjacent to central fuse, relay and terminal block
X1824		Stvd. cab, metering pump, supplementary heating
X1861		Stvd. cab keypad, supplementary heating
X2542		Potential distributor, 21-pin line 58000
X2543		Potential distributor, 21-pin line 30006
X2544	(246)	Potential distributor 21-pin K-line

- (A) Tail
- ®1) Engine
- (B2) Gearbox
- © Front
- ©1) Bumper
- © Entrance right
- ©3 Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- © Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right
- 1 Scope of delivery, Webasto
- 1 LCD clock

- 6 Driving seat
- Passenger seat
- (FB) Control panel
- Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- ② A-pillar on passenger's side
- (L) Ceiling/roof
- N Front axle
- (P) Rear axle
- (R1) Front part of frame
- Rear part of frame
- ⑤1 Door left
- © Door right



Additional headlight

Legend

Wiring diagram no. **81.99192.2461** Sheet **1** of 1 Change status: -

A = Front fog light

B = Additional main beam

A100 A302 A407 A438 A439	(352)	Central fuse, relay and terminal block Central computer 2 Instrumentation Light strip, right Light strip, left
E 122 E123 E194 E195		Fog lights, right Fog lights, left High beam, right High beam, right
S 483	(477)	Switch/control switch combination front fog light/ rear fog lamp
X1545 X1550 X1825 X1833 X1835		Stvd. front region, left Stvd. front region, right Crimped connector, line 31000 Crimped connector, line 16000 Crimped connector, line 58000

- (A) Tail
- ®1 Engine
- B2 Gearbox
- © Front
- ©1 Bumper
- © Entrance right
- © Entrance left
- © Central electrics area
- © Control unit racks
- ® Rear wall of cab
- F Instrument panel
- (F1) Central part
- © Steering wheel/column
- F3 Foot pedals
- F4 Front wall, inside left
- F5 Front wall, inside right

- © Driving seat
- F7 Passenger seat
- (FB) Control panel
- G Battery box
- (H1) B-pillar on driver's side
- (H2) A-pillar on driver's side
- (J1) B-pillar on passenger's side
- (J2) A-pillar on passenger's side
- L Ceiling/roof
- N Front axle
- P Rear axle
- (R1) Front part of frame
- Rear part of frame
- (S1) Door left
- © Door right

Wiring diagram no. 81.99192.2461 Sheet 1 of 1

