

5. ENGINE REMOVAL/INSTALLATION

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ENGINE REMOVAL/INSTALLATION

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## 5. ENGINE REMOVAL/INSTALLATION

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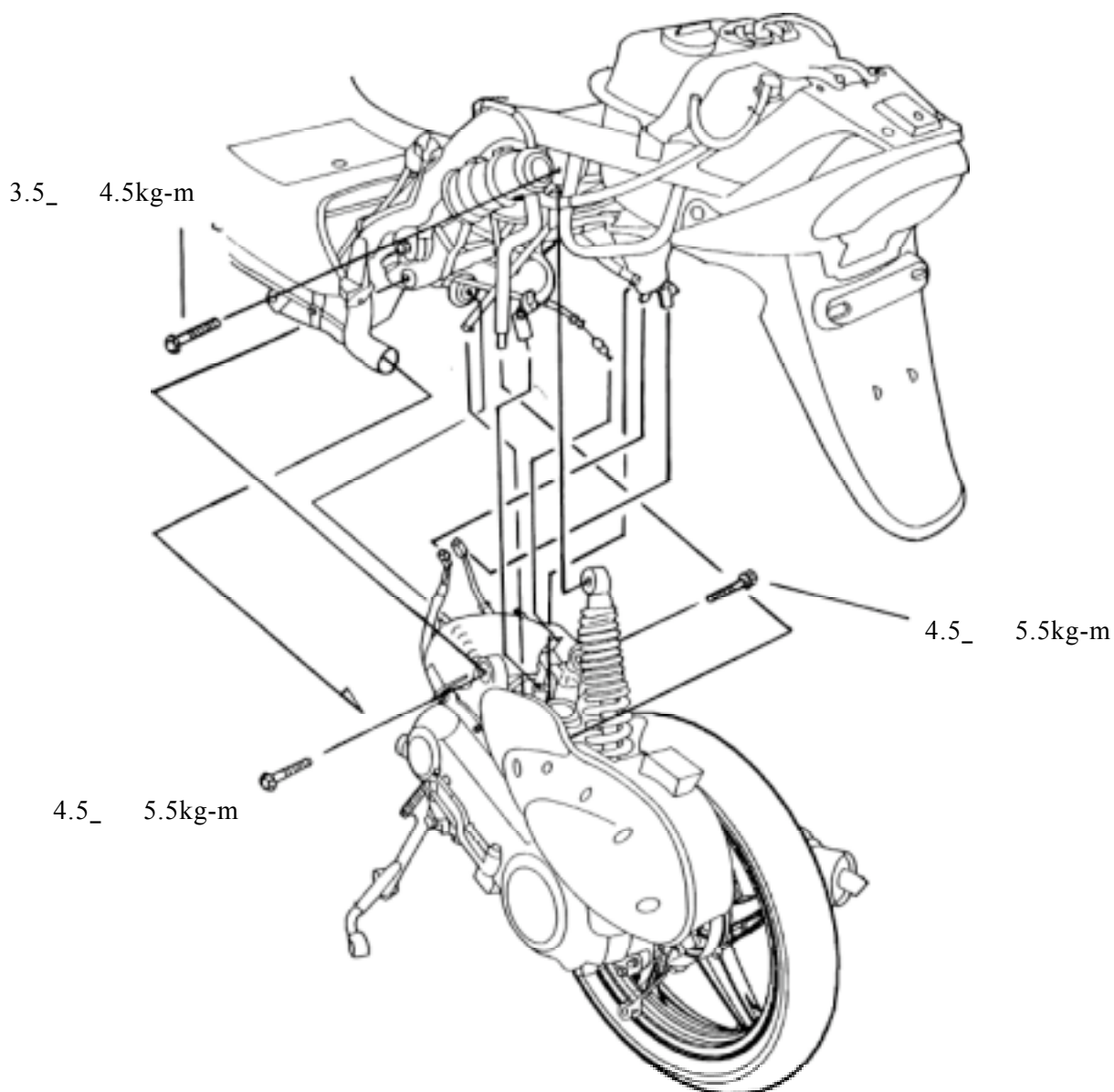
### SERVICE INFORMATION

#### GENERAL INSTRUCTIONS

- Parts requiring engine removal for servicing:
  - Crankcase
  - Crankshaft

#### TORQUE VALUES

Engine mounting bolt	4.5_	5.5kg-m
Rear shock absorber lower mount bolt	2.4_	3.0kg-m
Engine hanger bracket bolt	3.5_	4.5kg-m



## 5. ENGINE REMOVAL/INSTALLATION

### ENGINE REMOVAL

Remove the frame body cover. (⇒12-5)

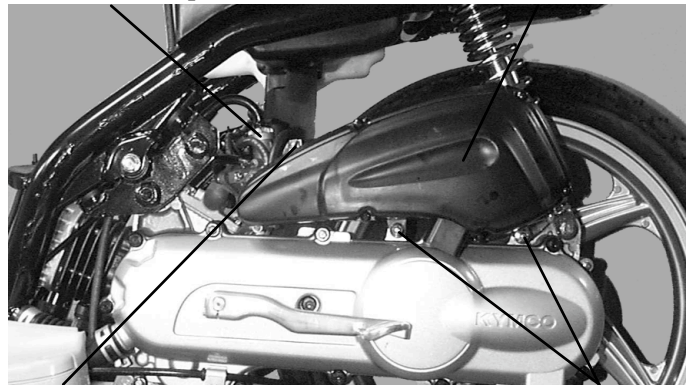
Remove the two bolts attaching the air cleaner case.

Loosen the band between the air cleaner and carburetor to remove the air cleaner case.

Remove the carburetor cap.

Carburetor Cap

Air Cleaner Case



Band

Bolt

Disconnect the oil pump control cable from the pump body.

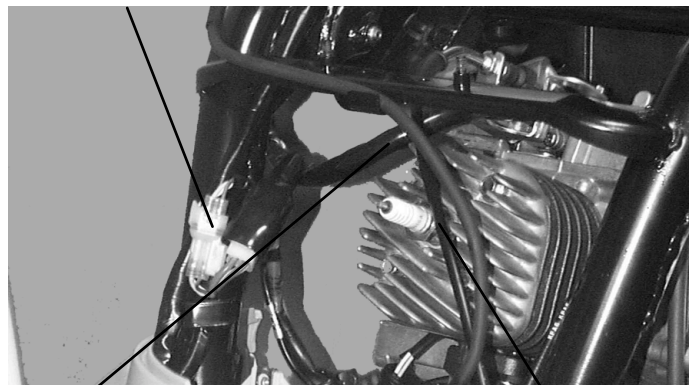
Disconnect the oil inlet line from the oil pump.

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After the oil inlet line is disconnected, plug the oil line opening to prevent oil from flowing out.

Disconnect the auto bystarter, A.C. generator and starter motor wire connectors.

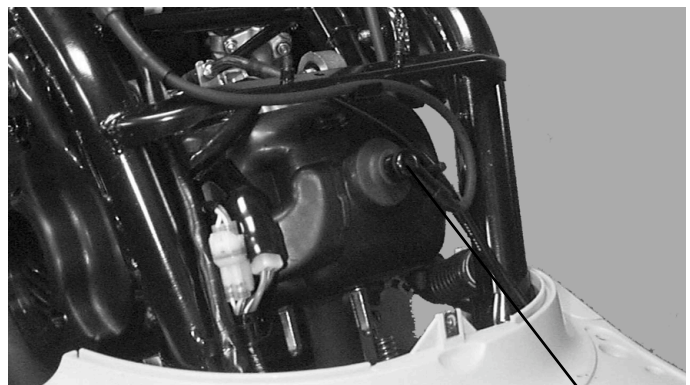
AC Generator Wire Connector



Oil Inlet Line

Oil Pump Control Cable

Remove the spark plug cap.

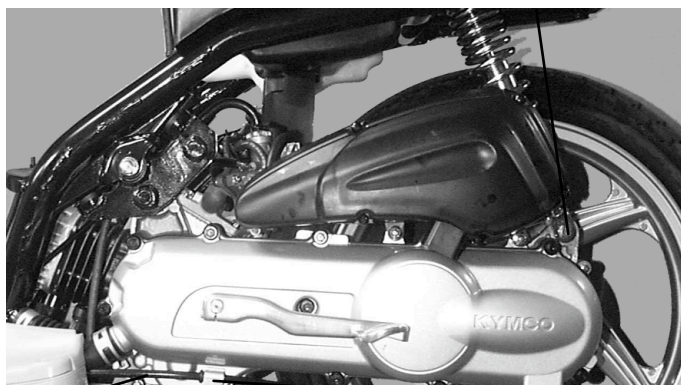


Spark Plug Cap

## 5. ENGINE REMOVAL/INSTALLATION

Remove the rear brake adjusting nut and disconnect the brake cable from the crankcase.  
Remove the rear brake cable clamp and rear brake cable.  
Remove the cooling air tube band on the left crankcase cover and disconnect the cooling air tube.  
Remove the rear shock absorber lower mount bolt.

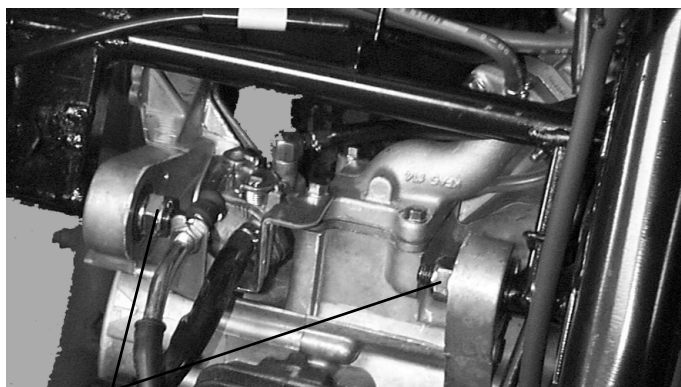
Rear Shock Absorber Lower Mount Bolt



Rear Brake Cable

Clamp

Remove the right and left engine mounting nuts.  
Take out the right and left engine mounting bolts.  
Lift the frame upward to separate it from the engine and be careful not to damage the rear fender.



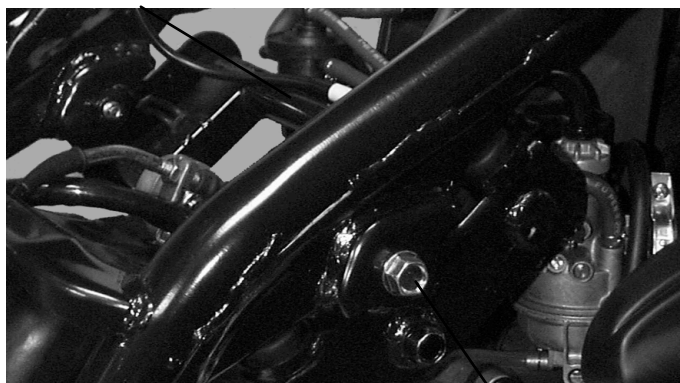
Engine Mounting Nuts

### ENGINE HANGER BRACKET REMOVAL

Remove the engine hanger bracket bolt and engine hanger bracket.  
The installation sequence is the reverse of removal.

**Torque:** 3.5\_ 4.5kg-m

Engine Hanger Bracket



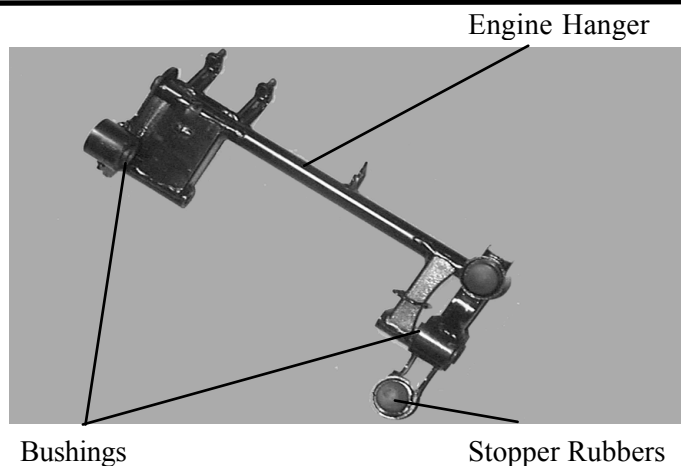
Engine Hanger Bracket Bolt

## 5. ENGINE REMOVAL/INSTALLATION

### ENGINE HANGER BRACKET

#### INSPECTION

Inspect the stopper rubbers and bushings for damage and replace with new ones if necessary.



### ENGINE INSTALLATION

Install the engine in the reverse order of removal.

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Cables and wires should be routed properly.

#### Torque Values:

Engine mounting bolt : 4.5\_ 5.5kg-m

Rear shock absorber lower mount bolt:  
: 2.4\_ 3.0kg-m



Perform the following inspections and adjustments after installation.

- Throttle cable
- Oil pump control cable (⇒3-11)
- Rear brake cable (⇒3-5)
- Oil pump bleeding (⇒3-11)

