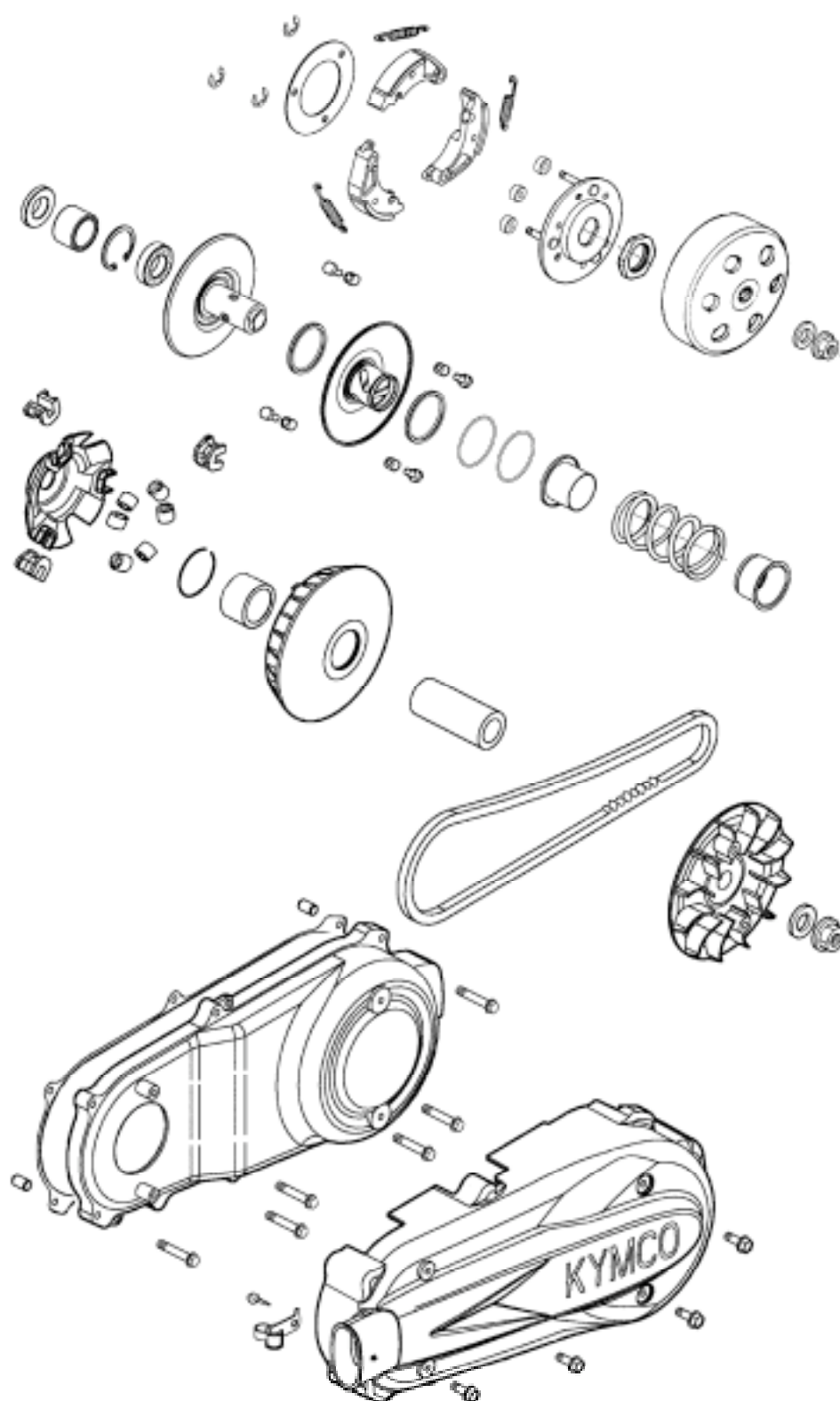


DRIVE AND DRIVEN PULLEYS/
KICK STARTER

SCHEMATIC DRAWING -----	8- 1
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8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

SCHEMATIC DRAWING



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- The drive pulley, clutch and driven pulley can be serviced with the engine installed.
- Avoid getting grease and oil on the drive belt and pulley faces. Remove any oil or grease from them to minimize the slipping of drive belt and drive pulley.

SPECIFICATIONS

Item	Standard (mm)		Service Limit (mm)
Movable driven face bushing I.D.	40.000_	40.025	40.06
Driven face collar O.D.	39.965_	39.955	39.85
Drive belt width	23.6_	24.4	22.0
Clutch lining thickness	3.963_	4.037	2.0
Clutch outer I.D.	153.0_	153.2	153.5
Weight roller O.D.	22.92_	23.08	22.0
Driven face Boss O.D.	26.960_	26.974	26.90
Movable driven face I.D.	27.052_	26.989	27.13
Weight roller W.DTH	18.9_	19.00	18.00

TORQUE VALUES

Drive face nut	88.2_	98N-m
Clutch outer nut	49.0_	58.8N-m
Clutch drive plate nut	49.0_	58.8N-m

SPECIAL TOOLS

Universal holder
Bearing driver

Clutch spring compressor
Lock nut wrench, 39mm
Kick starter spring remover

TROUBLESHOOTING

Engine starts but motorcycle won't move

- Worn drive belt
- Broken ramp plate
- Worn or damaged clutch lining
- Broken driven face spring

Lack of power

- Worn drive belt
- Weak driven face spring
- Worn weight roller
- Faulty driven face

Engine stalls or motorcycle creeps

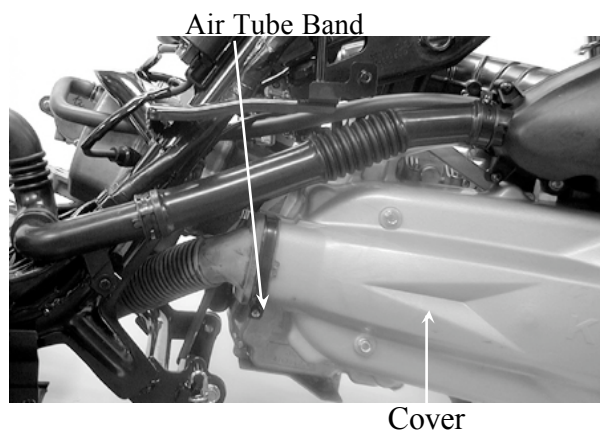
- Broken clutch weight spring

8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

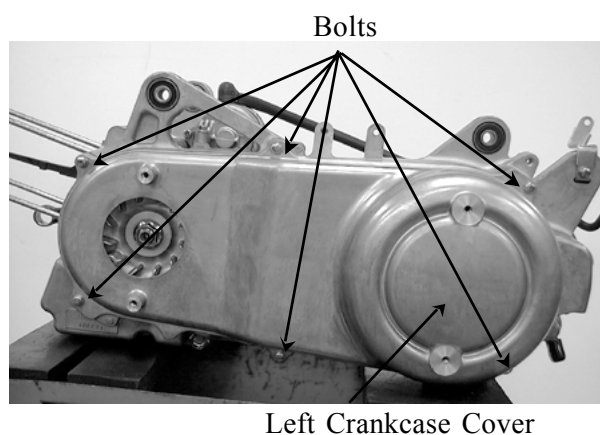
LEFT CRANKCASE COVER

REMOVAL

Loosen the drive belt air tube band screw.
Remove the four bolts on the left crankcase surface cover.

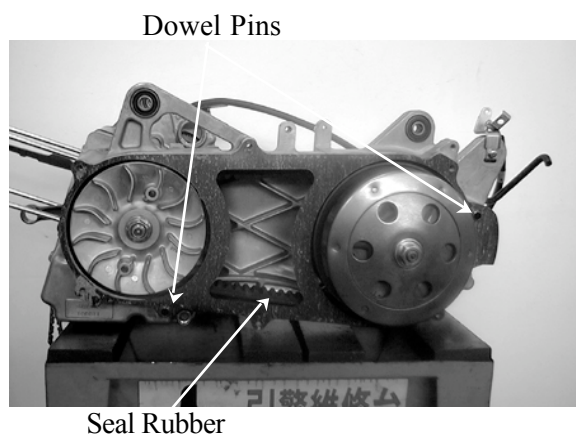


Remove the left crankcase cover bolts and left crankcase covers.
Remove the seal rubber and dowel pins.

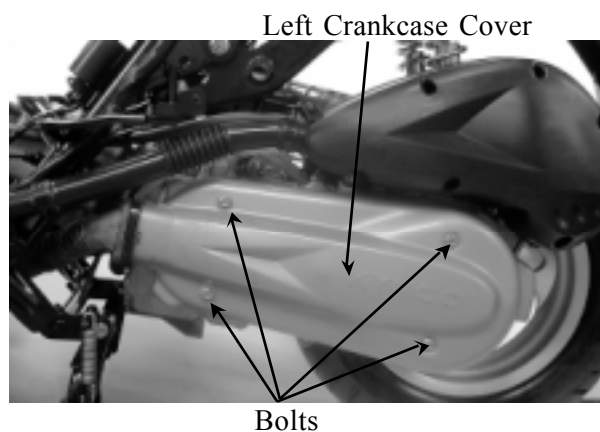


INSTALLATION

Install the dowel pins and the seal rubber.

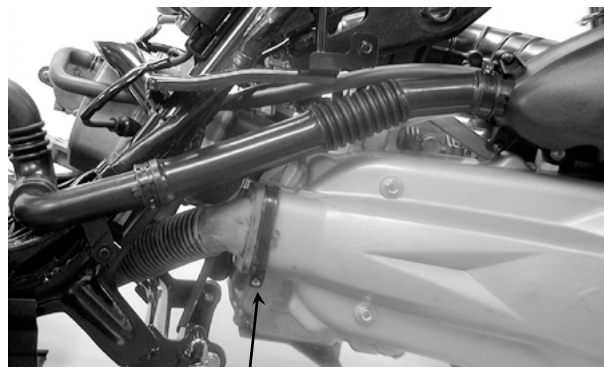


Install the left crankcase cover.
Install the cable clamp to the specified location. Install and tighten the left crankcase cover bolts.



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Install the drive belt air tube and tighten the tube band screw.



Tube Band Screw

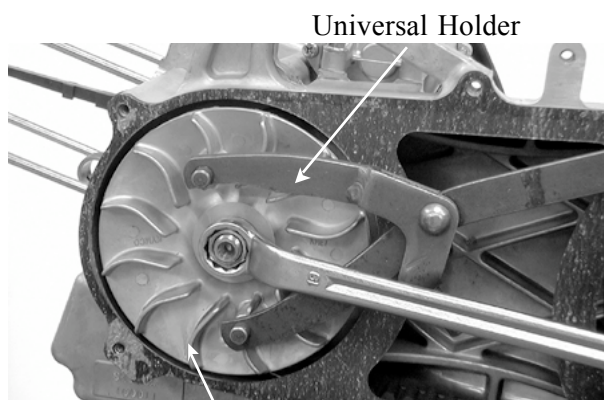
DRIVE PULLEY

REMOVAL

Remove the left crankcase cover.
Hold the drive pulley using an universal holder and remove the drive face nut and washer.
Remove the drive pulley face.

 Special

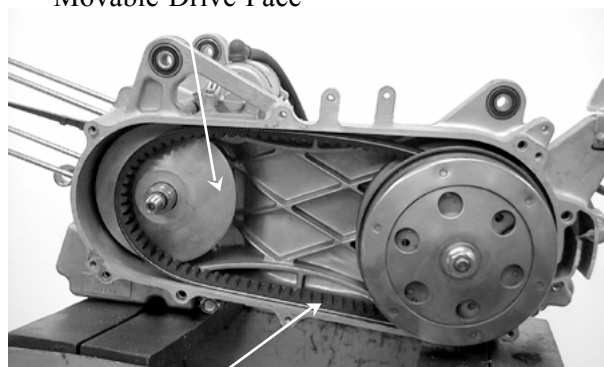
Universal Holder



Drive Pulley Face

Remove the drive belt from the movable drive face.

Movable Drive Face



Drive Belt

INSPECTION

Check the drive belt for cracks, separation or abnormal or excessive wear.
Measure the drive belt width.

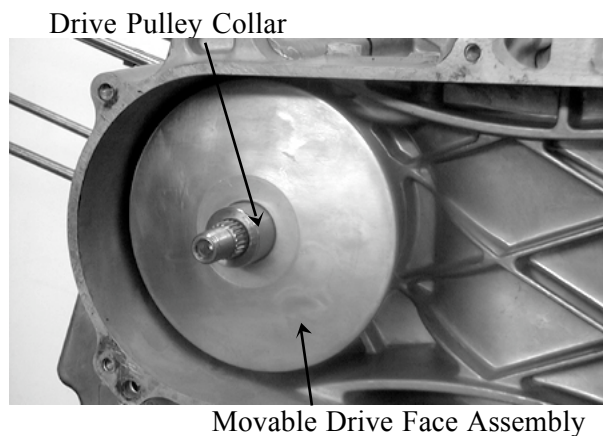
Service Limit: 22.0mm replace if below

- * Use specified genuine parts for replacement.



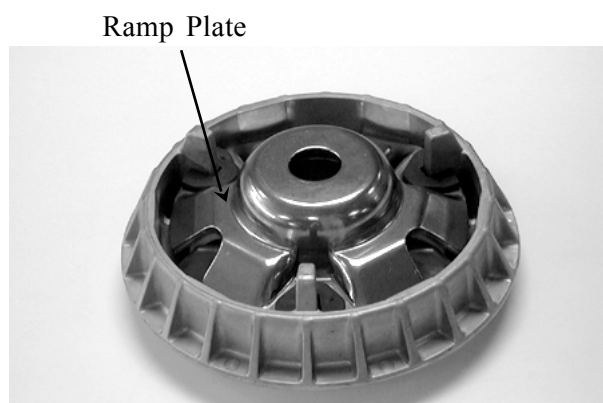
8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Remove the movable drive face assembly.
Remove the drive pulley collar.

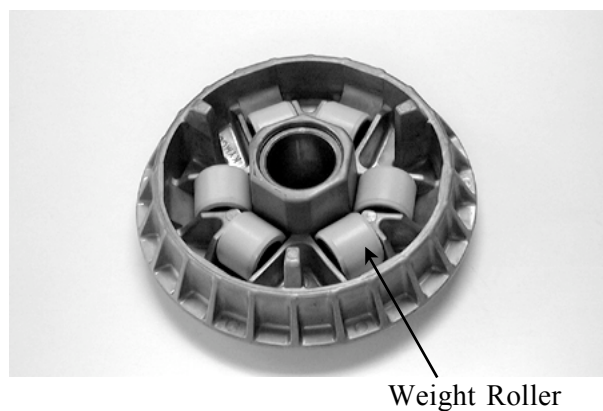


DISASSEMBLY

Remove the ramp plate.



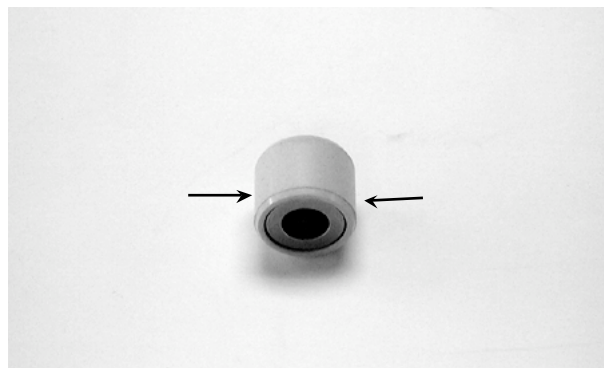
Remove the weight rollers.



INSPECTION

Check each weight roller for wear or damage.
Measure each weight roller O.D.

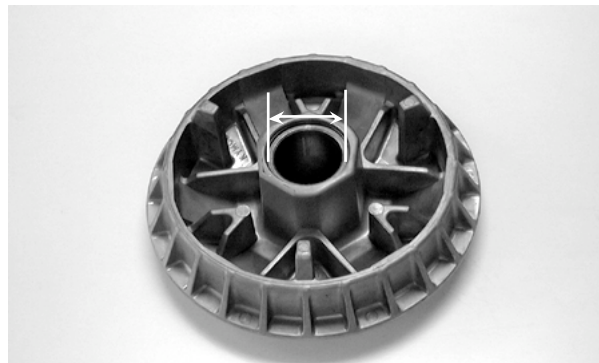
Service Limit: 22.00mm replace if below



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

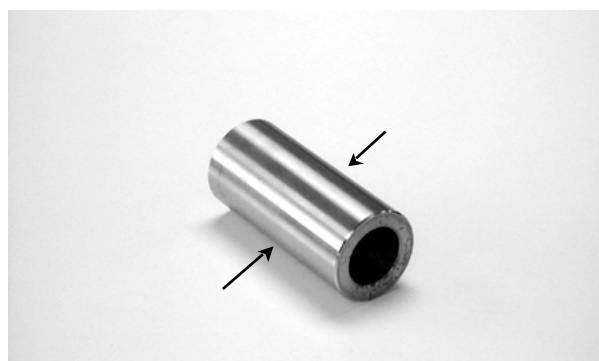
Measure the movable drive face bushing assembly I.D.

Service Limit: 27.13mm replace if over

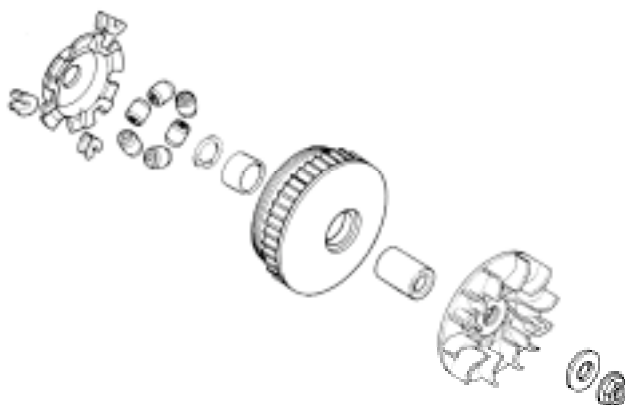


Check the drive pulley collar for wear or damage.
Measure the O.D. of the drive pulley collar sliding surface.

Service Limit: 26.90mm replace if below



ASSEMBLY



Install the weight rollers into the movable drive face.

- * • The direction of all weight rolls is same. The color side is towards to clockwise.



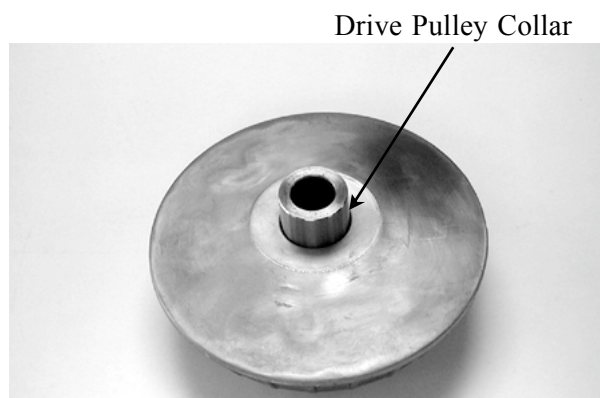
Weight Roller

8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Install the ramp plate.

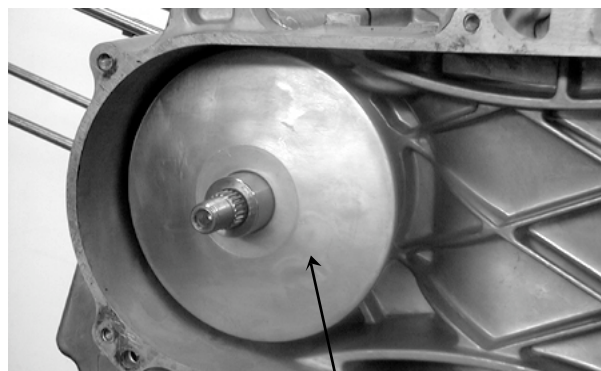


Insert the drive pulley collar into the movable drive face.

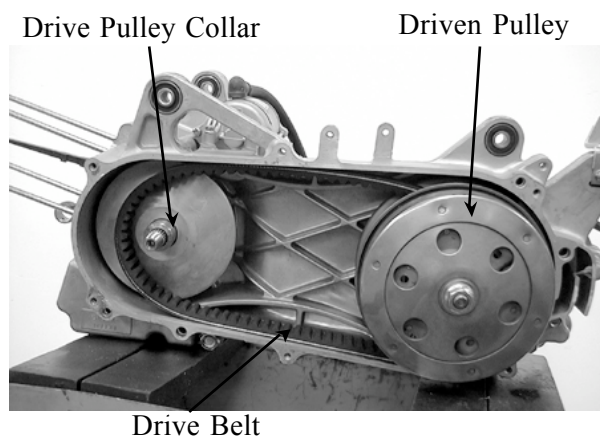


INSTALLATION

Install the movable drive face onto the crankshaft.

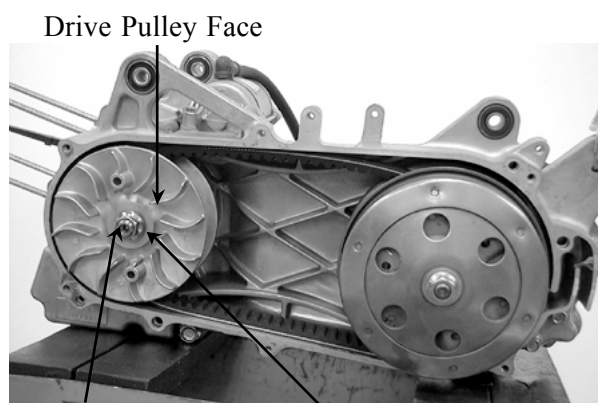


Lay the drive belt on the driven pulley.
Set the drive belt on the drive pulley collar.



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Install the drive pulley face, washer and drive face nut.



Drive Face Nut Washer

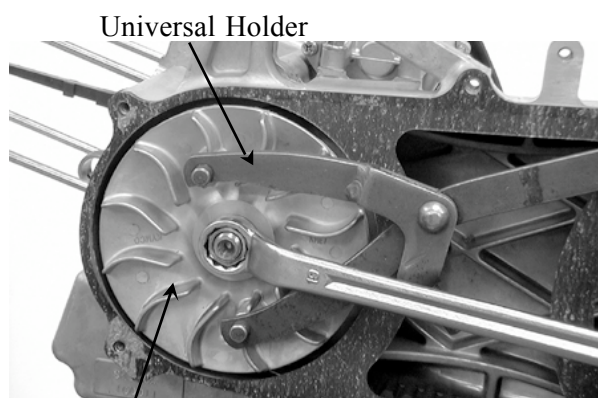
Hold the drive pulley with the universal holder and tighten the drive face nut.

Torque: 88.2_ 98N-m

Special

Universal Holder

- * Do not get oil or grease on the drive belt or drive pulley faces.



Drive Pulley

CLUTCH/DRIVEN PULLEY

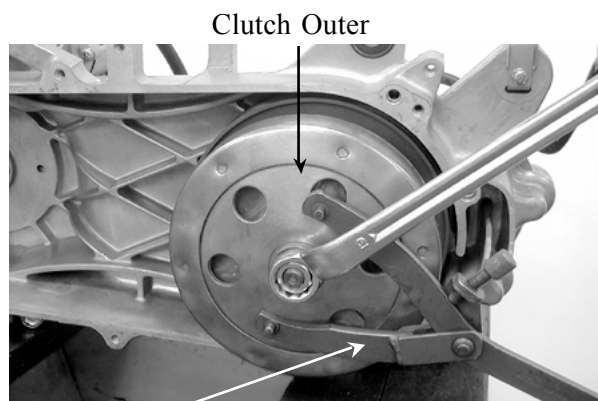
Remove the left crankcase cover. (⇒8-3)
Remove the drive pulley and drive belt. (⇒8-4)

Hold the clutch outer with the universal holder and remove the clutch outer nut.

Special

Universal Holder

Remove the clutch outer.

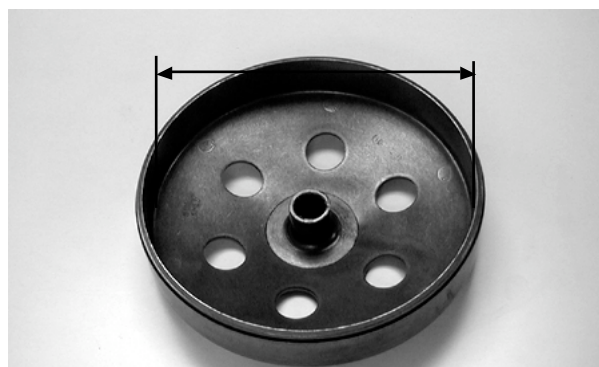


Universal Holder

INSPECTION

Inspect the clutch outer for wear or damage.
Measure the clutch outer I.D.

Service Limit: 153.5mm replace if over



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Check the clutch shoes for wear or damage.
Measure the clutch lining thickness.

Service Limit: 2.0mm replace if below



CLUTCH/DRIVEN PULLEY DISASSEMBLY

Clutch/Driven Pulley



Hold the clutch/driven pulley assembly with
the clutch spring compressor.

- * Be sure to use a clutch spring compressor to avoid spring damage.

Special

Clutch Spring Compressor

Set the tool in a vise and remove the clutch
drive plate nut.

Lock Nut Wrench, 39mm

Clutch Spring Compressor



Lock Nut Wrench

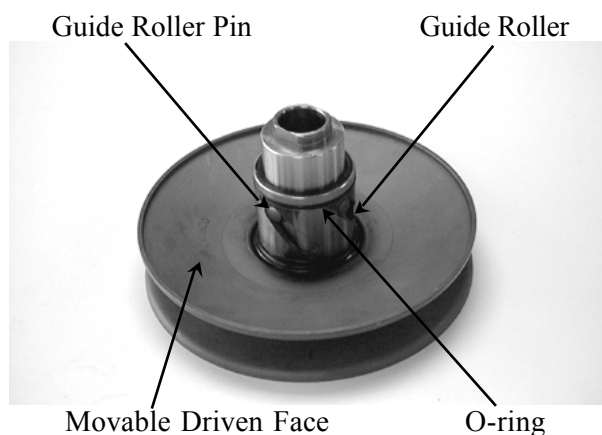
Loosen the clutch spring compressor and
disassemble the clutch/driven pulley
assembly.

Remove the seal collar.

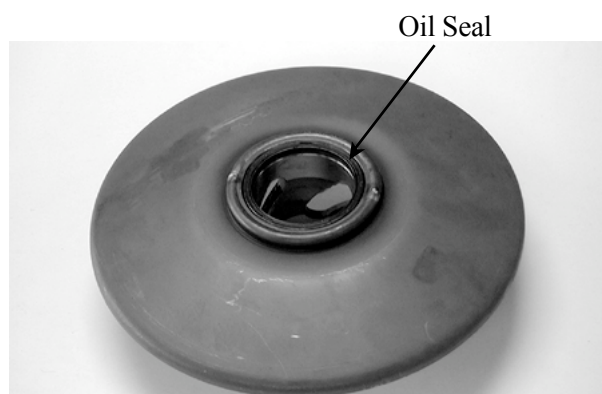


8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Pull out the guide roller pins and guide rollers.
Remove the movable driven face from the
driven face.



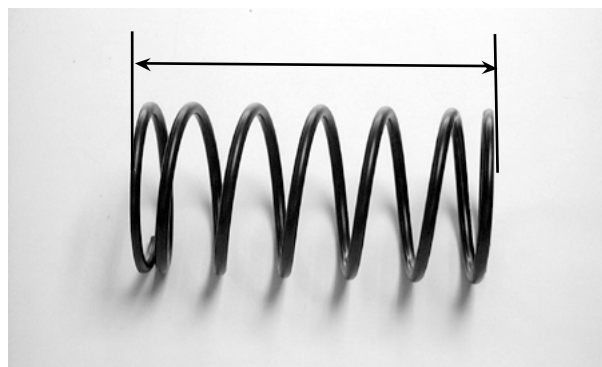
Remove the oil seal from the movable driven
face.



INSPECTION

Measure the driven face spring free length.

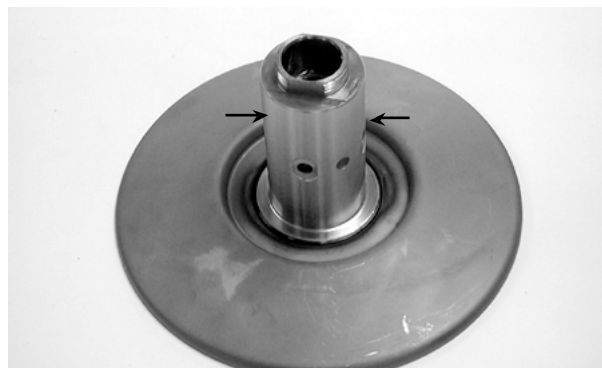
Service Limit: 130.5mm replace if below



Check the driven face assembly for wear or
damage.

Measure the driven face O.D.

Service Limit: 39.85mm replace if below

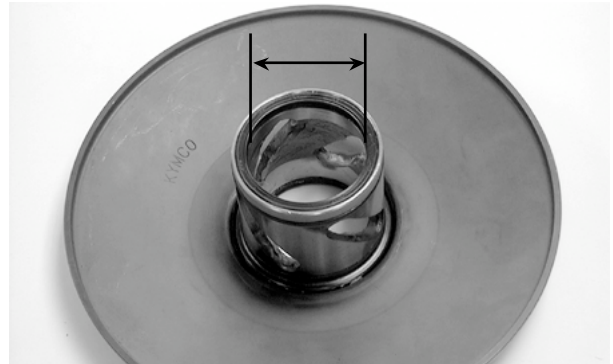


8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Check the movable driven face for wear or damage.

Measure the movable driven face I.D.

Service Limit: 40.06mm replace if over

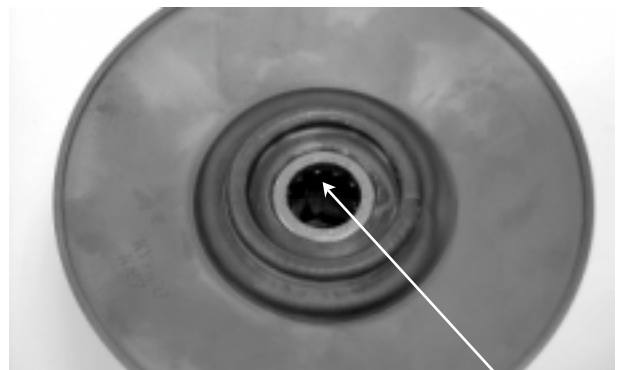


DRIVEN PULLEY FACE BEARING REPLACEMENT

Check the bearings for play and replace them if they have excessive play.

Drive the inner needle bearing out of the driven pulley face.

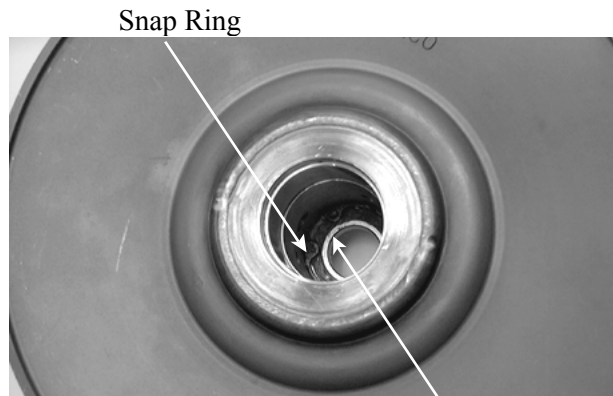
- * Discard the removed bearing and replace with a new one.



Inner Bearing

Remove the snap ring and drive the outer bearing out of the driven face.

- * Discard the removed bearing and replace with a new one.



Outer Bearing

Apply grease to the outer bearing.

Drive a new outer bearing into the driven face with the sealed end facing up.

Special

Bearing Driver

Seat the snap ring in its groove.

Apply grease to the driven face bore areas.

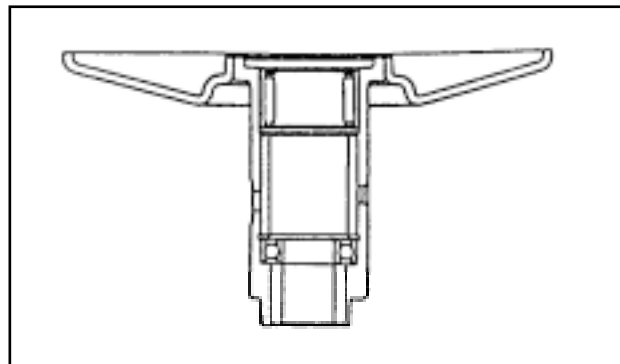
- * Pack all bearing cavities with 9_ 9.5g grease.

8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Press a new needle bearing into the driven face.

Special

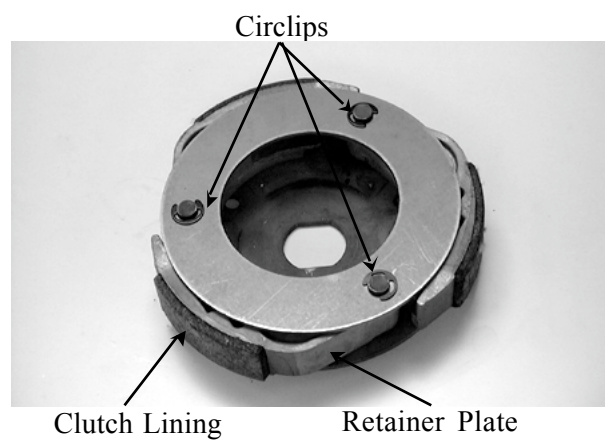
Bearing Driver



CLUTCH DISASSEMBLY

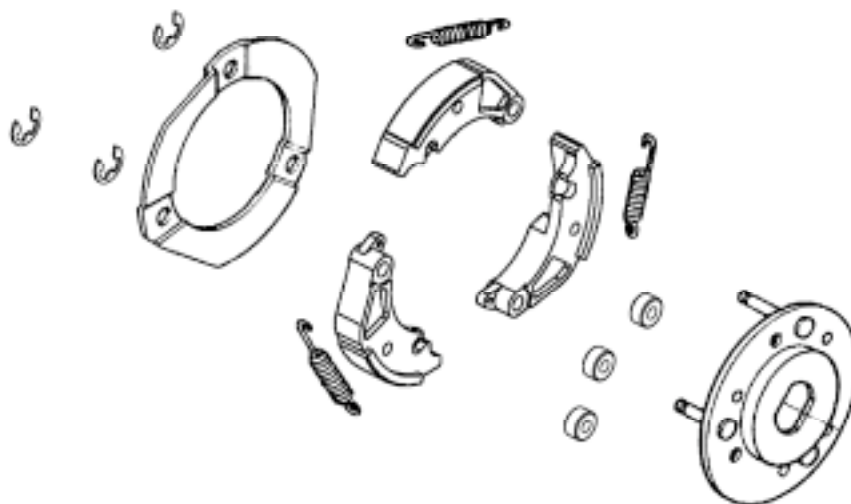
Remove the circlips and retainer plate to disassemble the clutch.

- *
 - Keep grease off the clutch linings.

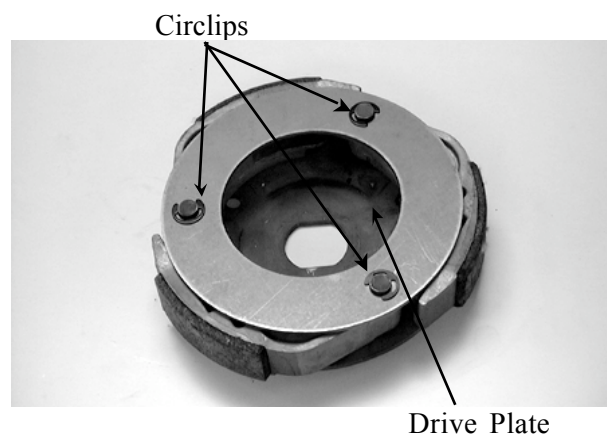


8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

CLUTCH ASSEMBLY

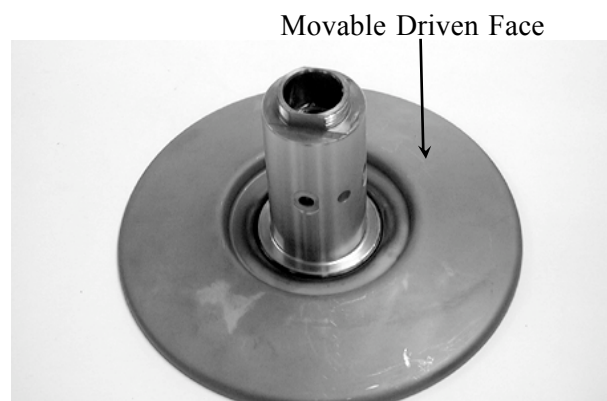


Install the damper rubbers on the drive plate pins.
Install the clutch weights/shoes and clutch springs onto the drive plate.
Install the retainer plate and secure with the circlips.



CLUTCH/DRIVEN PULLEY ASSEMBLY

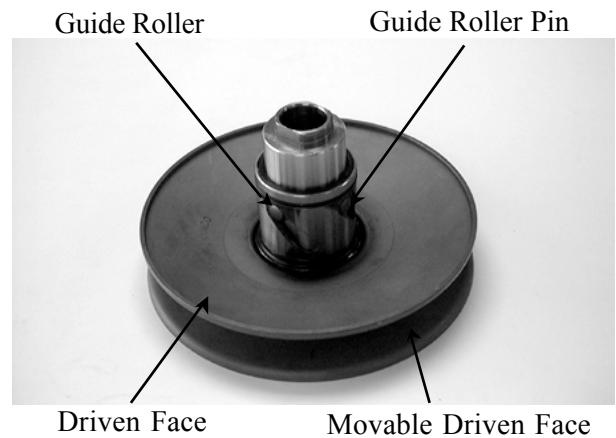
Clean the pulley faces and remove any grease from them.
Apply grease to the O-rings and install them onto the moveable driven face.



8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Install the movable driven face onto the driven face.

Apply grease to the guide rollers and guide roller pins and then install them into the holes of the driven face.



Install the seal collar.
Remove any excessive grease.

- * Be sure to clean the driven face off any grease.

Set the driven pulley assembly, driven face spring and clutch assembly onto the clutch spring compressor.

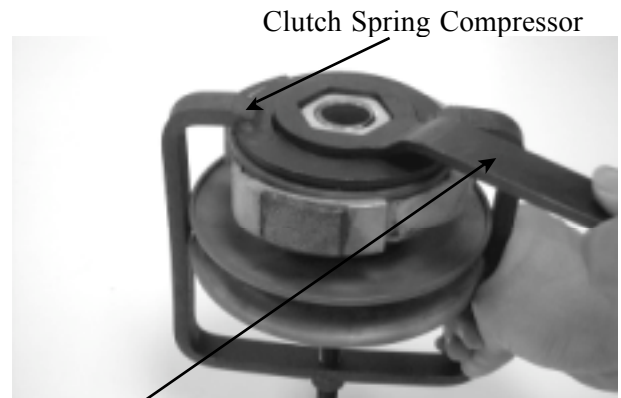
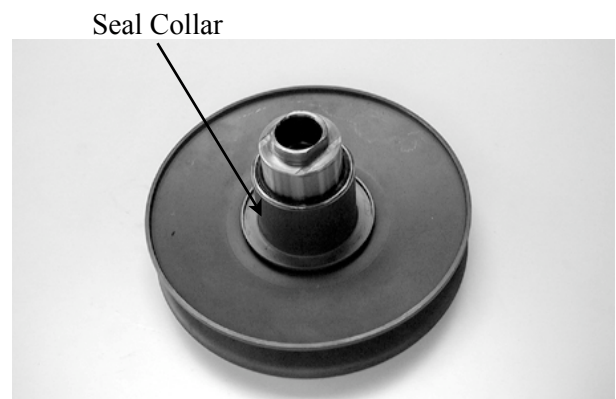
- * Align the flat surface of the driven face with the flat on the clutch drive plate.

Compress the tool and install the drive plate nut.

Set the tool in a vise and tighten the drive plate nut to the specified torque.

Torque: 49.0_ 58.8N-m

- * Be sure to use a clutch spring compressor to avoid spring damage.



Lock Nut Wrench

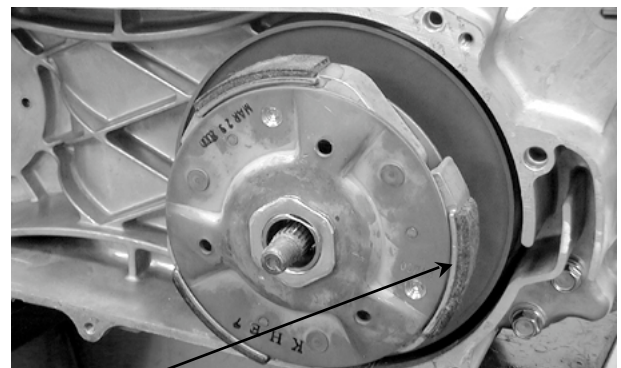
Special

Clutch Spring Compressor
Outer Driver, 39mm

INSTALLATION

Install the clutch/driven pulley onto the drive shaft.

- * Keep grease off the drive shaft.



Clutch/Driven Pulley

8. DRIVE AND DRIVEN PULLEYS/ KICK STARTER

Install the clutch outer.
Hold the clutch outer with the universal
holder.

Install and tighten the clutch outer nut.

Torque: 49.0_ 58.8kg-m

Special

Universal Holder

Install the drive belt. (⇒8-7)

Install the left crankcase cover. (⇒8-3)

