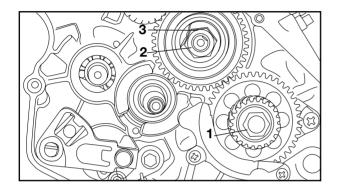
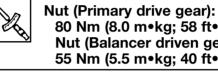


Always use a new lock washer



- 5. Tighten:
- Nut (Primary drive gear) (1)
- Nut (Balancer driven gear) (2)



80 Nm (8.0 m•kg; 58 ft•lb) Nut (Balancer driven gear): 55 Nm (5.5 m•kg; 40 ft•lb)

NOTE:

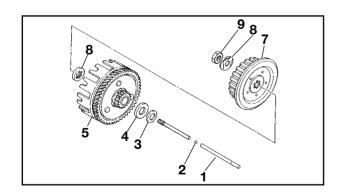
Hold the rotor to tighten the nut (Primary drive gear) (1) and nut (Balancer driven gear) (2) by the Universal Rotor Holder

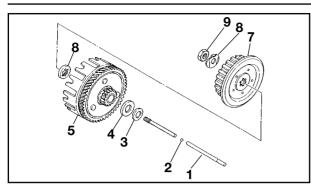


Universal Rotor Holder: 90890-01235

- 6. Bend the lock washer tab (3) along the nuts flats.
- 7. Lubricate:
- Push rod #2
- Ball (2)







- 8. Install:
 - Push rod #2
 - Ball (2)
 - Conical spring washer ③
 - Thrust plate ④
 - Clutch housing
 5
 - Thrust washer 6
 - Clutch boss $\overline{\mathcal{I}}$
 - Lock washer (8)
 - Nut (Clutch boss)

A WARNING

Always use a new lock washer

NOTE: ____

• Be careful to install the conical spring washer (3) in proper position as shown.

ENG

- Install the lock washer tab (8) onto the indentation of the clutch boss.
- 9. Tighten:
- Nut (Clutch boss)



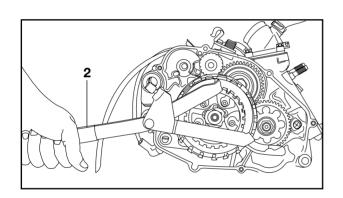
Nut (Clutch boss): 70 Nm (7.0 m•kg; 50 ft•lb)

NOTE:

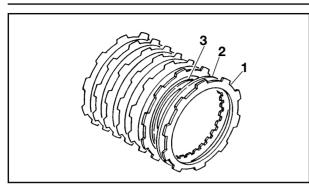
Hold the clutch boss to tighten the nut (1) (clutch boss) by the Universal Clutch Holder (2)

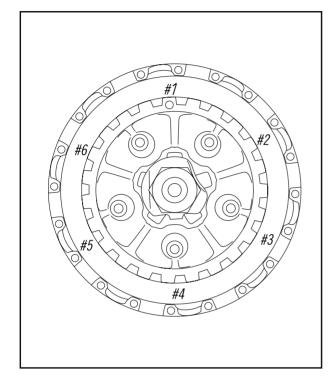


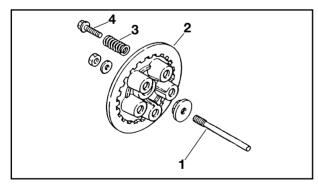
10. Bend the lock washer tab along the nut flats.

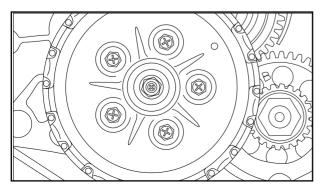












- 11. Install:
- \bullet Friction plates (1)
- Clutch plates
 2
- Clutch damper ③

Installation steps

- Install the friction plate onto the clutch boss.
- Install the clutch plate so as to locate the projection (4) at #1.
- Install the friction plate with the larger inside diameter onto the clutch boss.
- Install the clutch damper onto the clutch plate.
- Install the remaining clutch plates and friction plates alternately on the clutch boss.
- Be sure to install a clutch plate with projection offset aproximately 60° from previous plate projection.
 Continue this procedure in a clockwise direction until all clutch plates are installed.

NOTE:

Before installing friction and clutch plates, sink them into transmission oil almost 3 hours before mounting

- 12. Install:
- Push rod #1 (1)
- Pressure plate 2
- Clutch springs 3
- Bolts (Pressure plate) ④

NOTE:

Align the punched mark (5) on the clutch boss with the punched mark (6) on the clutch pressure plate.

- 13. Tighten:
- Bolts (Pressure plate)



Bolt (Pressure plate): 6 Nm (0.6 m•kg; 4.8 ft•lb)





NOTE:

Tighten the bolts (pressure plate) in stage, using a crisscross pattern

- 14. Adjust:
- Clutch mechanism free play Refer to the "CLUTCH MECHANISM ADJUSTMENT" section in chapter 3.
- 15. Install:
 - Gasket (Crankcase cover)
 - Dowel pins
 - Crankcase cover (Right) ①
 - Drain plug (Transmission oil) (2)
 - Drain plug (Coolant) ③

NOTE:

Tighten the screws (Crankcase cover) in stage using a crisscross pattern

A WARNING

Always use a new gasket



Screw (Crankcase cover): 8 Nm (0.8 m•kg; 5.8 ft•lb) Drain plug (Transmission Oil): 15Nm (1.5 m•kg; 11 ft•lb) Drain plug (Coolant): 10Nm (1.0 m•kg; 7.2 ft•lb)

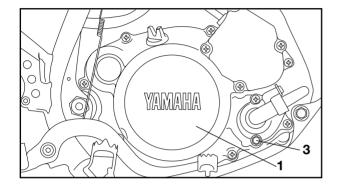
- 16. Apply the grease to the O-ring
- 17. Install:
- O-ring (1)
- (to water outlet pipe 2)
- Water outlet pipe 2

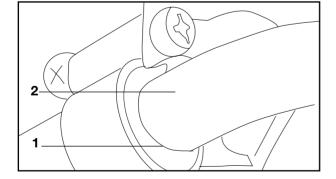
A WARNING

Always use a new O-ring



Screw (Water Outlet Pipe): 8 Nm (0.8 m•kg; 5.8 ft•lb)

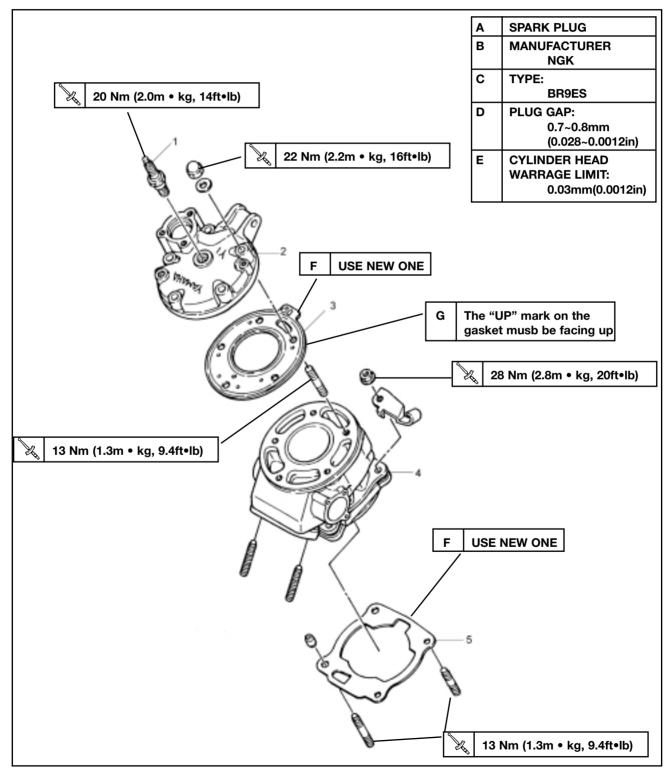




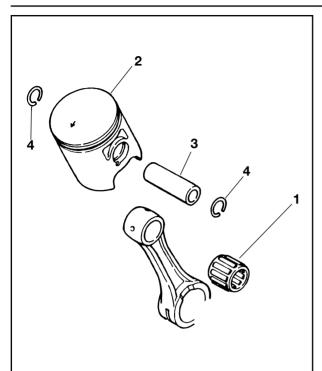


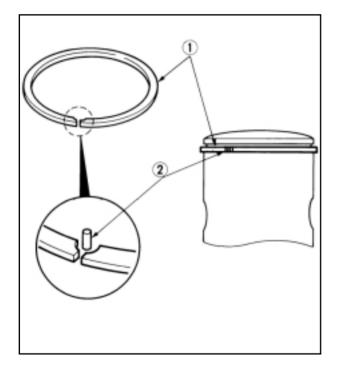
CYLINDER HEAD AND CYLINDER

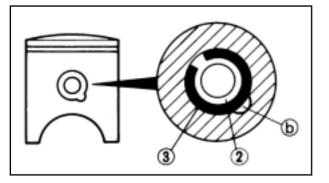
- 1 Spark plug
- 2 Cylinder head
- 3 Cylinder head gasket
- (4) Cylinder
- 5 Cylinder gasket











PISTON, CYLINDER AND CYLINDER HEAD

- 1. Install:
- Bearing 1
- Piston 2
- Piston pin 3
- Piston pin clips ④

NOTE:

- Apply engineoil tothe piston pin, bearings and piston skirts areas.
- Make sure the arrow mark on the piston points towards the exhaust side of the cylinder.
- Before installing the piston pin clip, cover the crankcase opening with a clean rag to prevent the clip from falling into the crankcase.

Always use a new piston pin clip

CAUTION

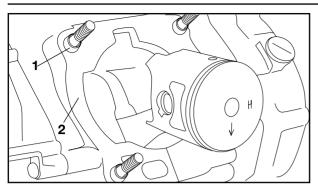
Do not allow the clip open ends to meet the piston pin slot

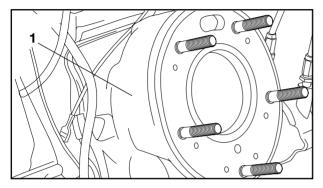
- 2. Check:
- Piston ring position

CAUTION

- Make sure ring ends are properly fitted around ring locating pins in piston grooves.
- Be sure to check te manufacture's marks or numbers stamped on the rings are on the top side of the rings.







- 3. Install:Dowel pins (1)
- Gasket NEW (Cylinder) (2)

A WARNING

Always use a new gasket

- 4. Install:
- Cylinder ①
- Clutch cable guide

NOTE: ____

Install the cylinder with one hand while compressing the piston rings with the other hand

- 5. Tighten:
 - Nuts (cylinder)



Nut (Cylinder): 28 Nm (2.8 m•kg, 20 ft•lb)

NOTE: _____

Tighten the nuts ins stage using a crisscross pattern.

- 6. Install:
 - Gasket (Cylinder head)
 - Cylinder head

A WARNING

Always use a new gasket

NOTE: _____

The "UP" mark on the gasket must be facing up

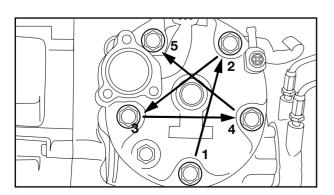
- 7. Tighten:
- Nuts (Cylinder head)

E.

Nut (Cylinder Head): 22 Nm (2.2 m•kg, 16 ft•lb)

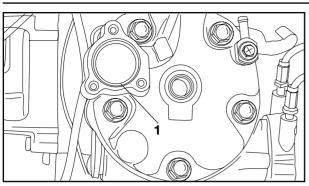
NOTE: _____

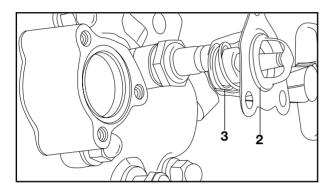
Tighten the nuts in stage, using a crisscross pattern

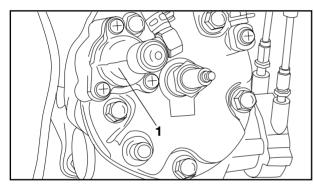


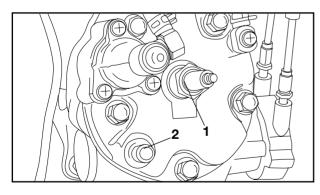












- 8. Install:
- O-ring ①
- Thermostatic valve (2)
- Gasket ③

NOTE: _

Apply the lithium soap base grease to the O-ring

A WARNING

- Always use a new O-ring.
- Always use a new gasket.

- 9. Install:
- Cover (Thermostatic valve) ①

Screw (Thermostatic Valve Cover): 8 Nm (0.8 m•kg, 5.8 ft•lb)

- 10. Install:
- Spark plug 1
- Thermo unit 2



Spark plug: 20 Nm (2.0 m•kg, 14 ft•lb) Thermo unit: 15 Nm (1.5 m•kg, 11 ft•lb)

Handle the thermo unit with special care. Never subject it too strong or allow it to be dropped. In case of being hited, replace it.