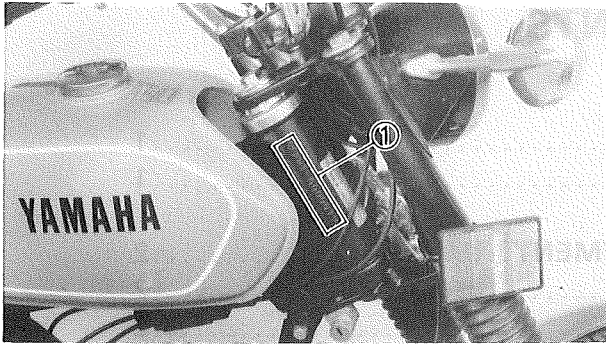


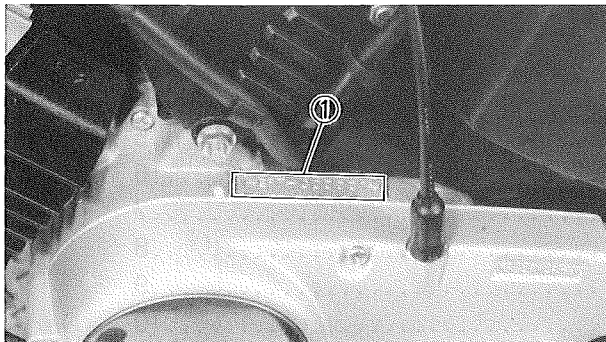
MOTORCYCLE IDENTIFICATION



GENERAL INFORMATION MOTORCYCLE IDENTIFICATION

FRAME SERIAL NUMBER

The frame serial number ① is stamped into the right side of the steering head pipe.



ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the elevated part of the left rear section of the engine.

NOTE:

The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.

Starting Serial Number:

2RU-000101 (For Holland)

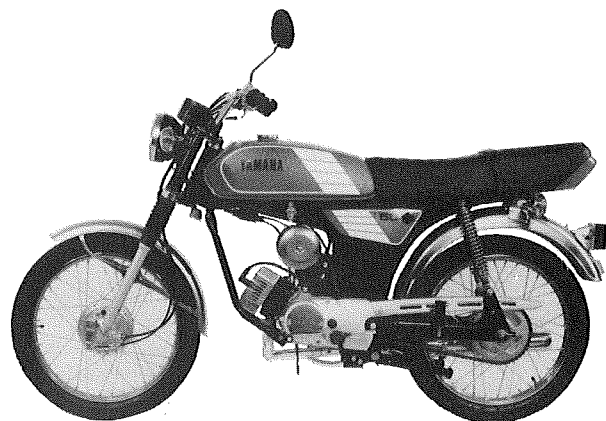
2RT-000101 (For Belgium)

3F6-105101 (For England)

(For Belgium & England)

NOTE:

Designs and specifications are subject to change without notice.



(For Holland)

INTRODUCTION/PERIODIC MAINTENANCE



PERIODIC INSPECTION AND ADJUSTMENT

INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

PERIODIC MAINTENANCE

Unit: km (mi)

Item	Remarks	Initial			Thereafter every	
		500 (300)	1,500 (1,000)	3,000 (2,000)	3,000 (2,000)	6,000 (4,000)
*Cylinder head/Exhaust pipe	Decarbonize			○		○
Spark plug	Inspect/Clean or replace as required	○	○	○	○	
Air filter	Clean/Replace as required		○	○	○	
*Carburetor	Check operation/Adjust as required		○	○	○	
*Brake system (Complete)	Check/Adjust as required — Repair as required	○	○	○	○	
*Wheels and tires	Check pressure/Wheel/Balance/Runout	○	○		○	
Fuel cock	Clean/Flush tank as required			○		○
*Autolube pump	Check/Adjust/Air bleeding	○	○	○		○
*Battery	Top-up/Check specific gravity and breather pipe	○	○	○	○	
*Ignition timing	Adjust/Clean or replace as required	○				○
Lights/Signals	Check operation/Replace as required	○		○	○	
Fittings/Fasteners	Tighten before each trip and/or.....	○			○	
Drive chain	Check chain slack/Alignment	Every 500 (300)				
Clutch	Check/Adjust	○	○		○	
Suspension system	Check/Tighten	○			○	

*It is recommended that these item be serviced by a Yamaha dealer.

LUBRICATION INTERVALS



LUBRICATION INTERVALS

Unit: km (mi)

Item	Remarks	Type (Recommended lubricants)	Initial			Thereafter every	
			500 (300)	1,500 (1,000)	3,000 (2,000)	3,000 (2,000)	6,000 (4,000)
Transmission oil	Replace/Warm engine before draining	SAE 10W/30, type "SE" motor oil	○		○	○	
Control/Meter cables	Apply lightly	SAE 10W30 motor oil		○	○	○	
Throttle grip/Housing	Apply lightly	Lithium base grease	○		○	○	
*Steering bearings	Inspect thoroughly/Pack moderately	Medium-weight wheel bearing grease			Check		○
*Speedometer gear housing	Inspect thoroughly/Pack	Lithium base grease			○		○
Rear arm pivot shaft	Apply grease fully	Medium-weight wheel bearing grease			○		○
*Wheel bearings	Do not over-pack	Medium-weight wheel bearing grease			○		○
Drive chain	Clean and lube	SAE 10W/30 type "SE" motor oil	Every 500 (300)				
Brake pedal shaft	Apply lightly	Lithium base grease		○	○	○	
Stand shaft pivot	Apply lightly	Lithium base grease					○
*Point cam lubrication wick	Apply very lightly	Light-weight machine oil			○	○	

*It is recommended that these items be serviced by a Yamaha dealer.

CRANKSHAFT/PISTON

ENG



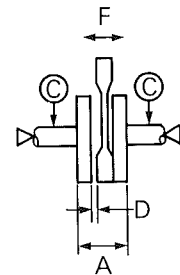
EXPLODED DIAGRAM

CRANKSHAFT/PISTON

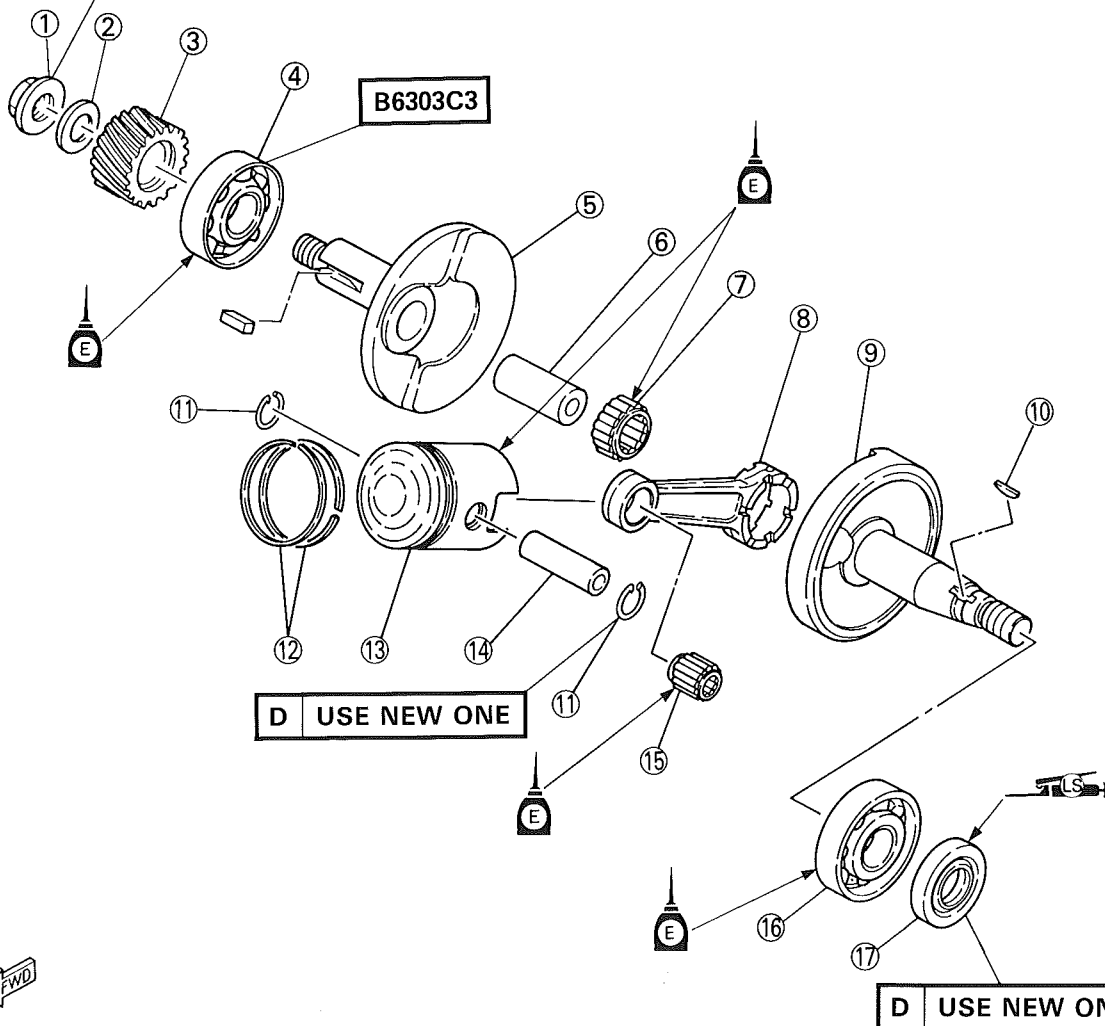
- | | |
|-------------------------|---------------------|
| ① Flange nut | ⑩ Woodruff key |
| ② Conical spring washer | ⑪ Piston pin clip |
| ③ Primary drive gear | ⑫ Piston ring set |
| ④ Bearing | ⑬ Piston |
| ⑤ Crank (Right) | ⑭ Piston pin |
| ⑥ Crank pin | ⑮ Small end bearing |
| ⑦ Big end bearing | ⑯ Bearing |
| ⑧ Connecting rod | ⑰ Oil seal |
| ⑨ Crank (Left) | |

A	PISTON TO CYLINDER CLEARANCE: 0.035 ~ 0.040 mm (0.0014 ~ 0.0016 in)
	END GAP (INSTALLED):
B	Top ring
	0.15 ~ 0.35 mm (0.006 ~ 0.014 in)
	2nd ring
	0.15 ~ 0.35 mm (0.006 ~ 0.014 in)

C	CRANKSHAFT:
A:	37.90 ~ 37.95 mm (1.492 ~ 1.494 in)
C:	0.03 mm (0.0012 in)
D:	0.2 ~ 0.7 mm (0.008 ~ 0.028 in)
F:	0.8 ~ 1.0 mm (0.03 ~ 0.04 in)



45 Nm (4.5 m·kg, 32 ft·lb)



TRANSMISSION

ENG



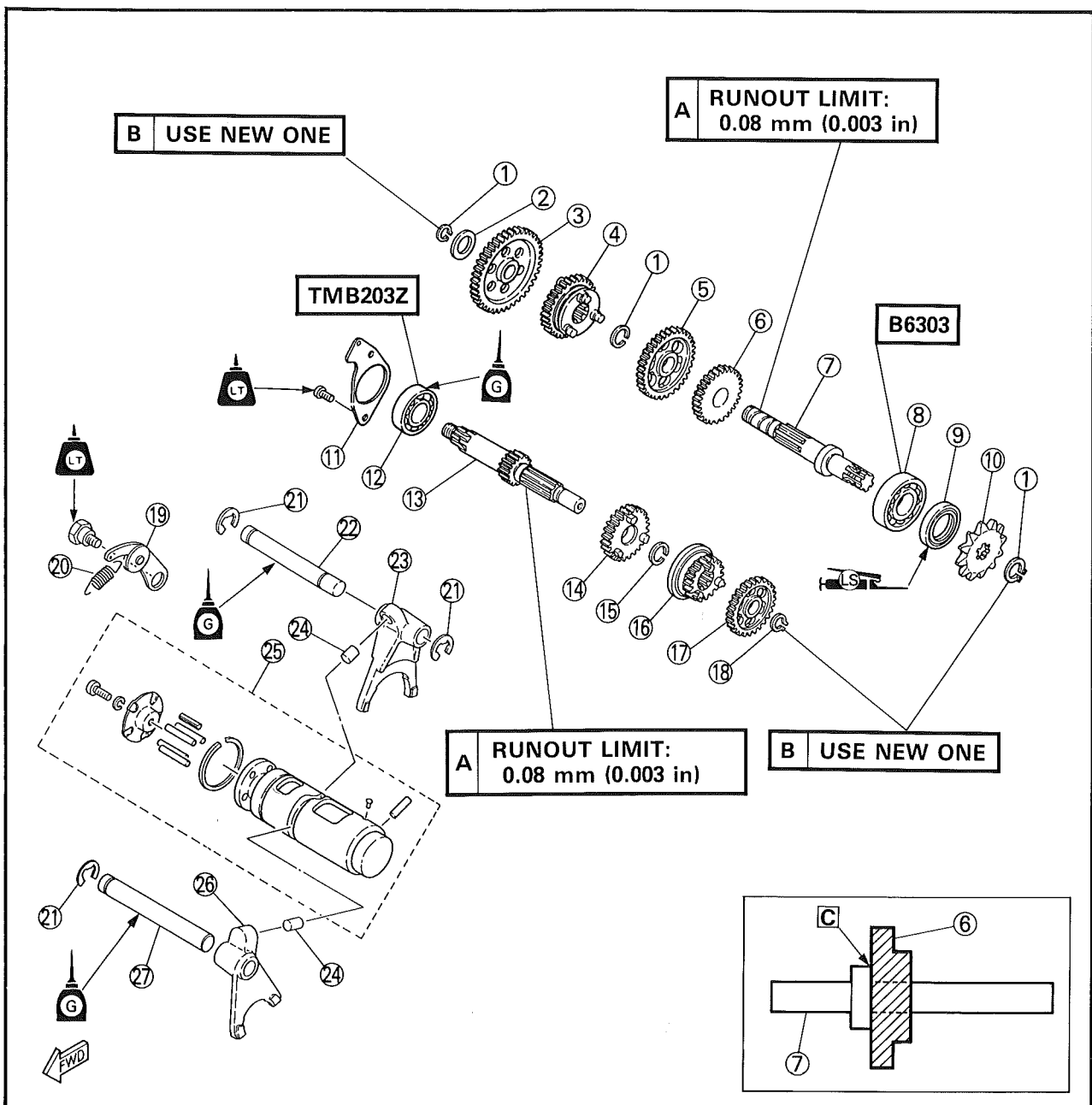
TRANSMISSION

- | | |
|-------------------------|--------------------------|
| ① Circlip | ⑮ Circlip |
| ② Plain washer | ⑯ 2nd pinion gear |
| ③ 1st wheel gear (40T) | ⑰ 4th pinion gear |
| ④ 3rd wheel gear (30T) | ⑱ Circlip |
| ⑤ 2nd wheel gear (34T) | ⑲ Stopper lever assembly |
| ⑥ 4th wheel gear (27T) | ⑳ Tension spring |
| ⑦ Drive axle | ㉑ Circlip |
| ⑧ Bearing | ㉒ Guide bar 1 |
| ⑨ Oil seal | ㉓ Shift fork 1 |
| ⑩ Drive sprocket | ㉔ Straight pin |
| ⑪ Bearing stopper plate | ㉕ Shift cam assembly |
| ⑫ Bearing | ㉖ Shift fork 2 |
| ⑬ Main axle | ㉗ Guide bar 2 |
| ⑭ 3rd pinion gear | |

☐

NOTE:

Force fit the 4th wheel gear ⑥ over the drive axle ⑦ as far as its flange.





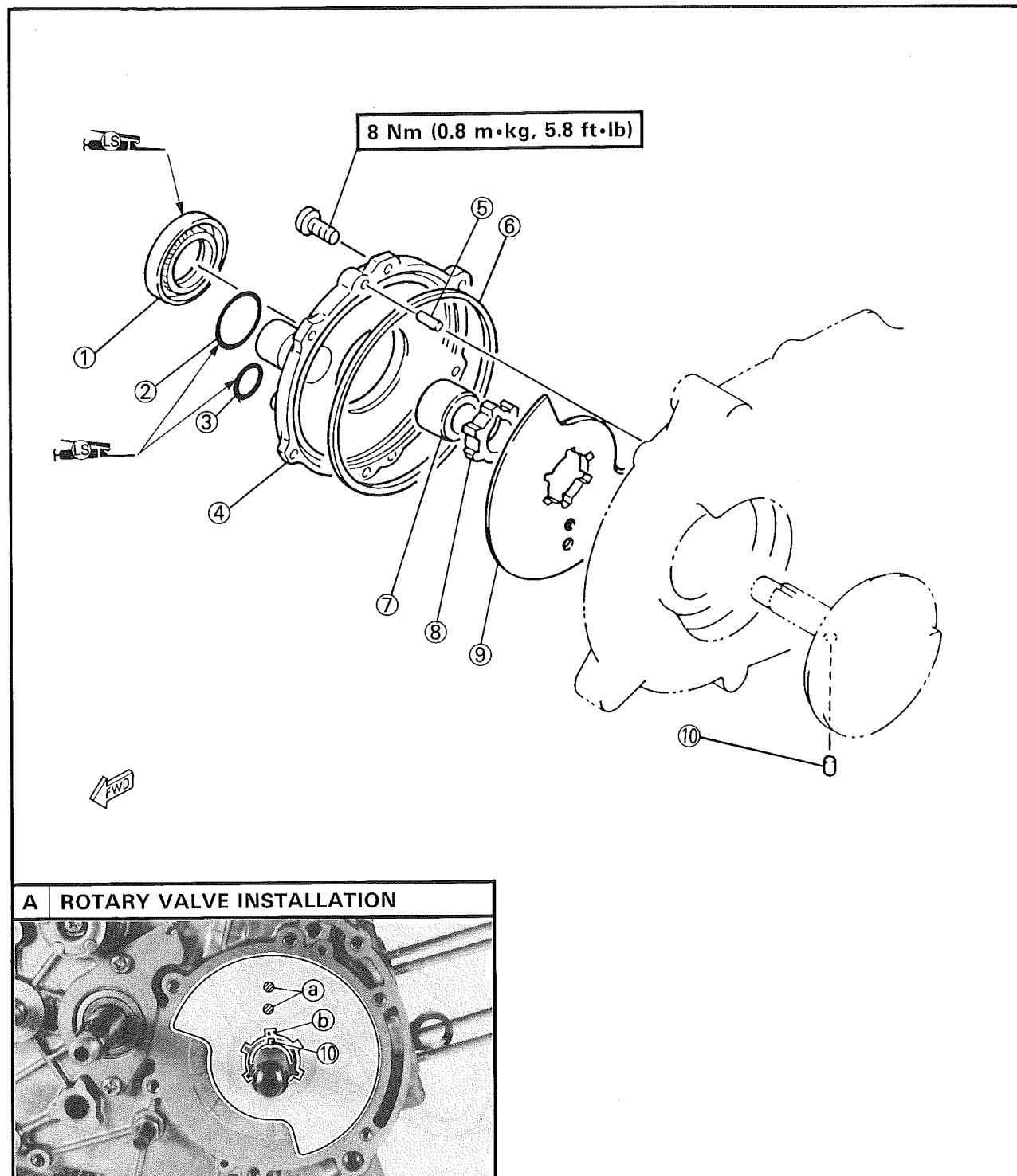
ROTARY VALVE

- ① Oil seal
- ② O-ring
- ③ O-ring
- ④ Rotary valve cover
- ⑤ Dowel pin
- ⑥ O-ring
- ⑦ Collar
- ⑧ Valve collar
- ⑨ Rotary valve
- ⑩ Pin

A

NOTE:

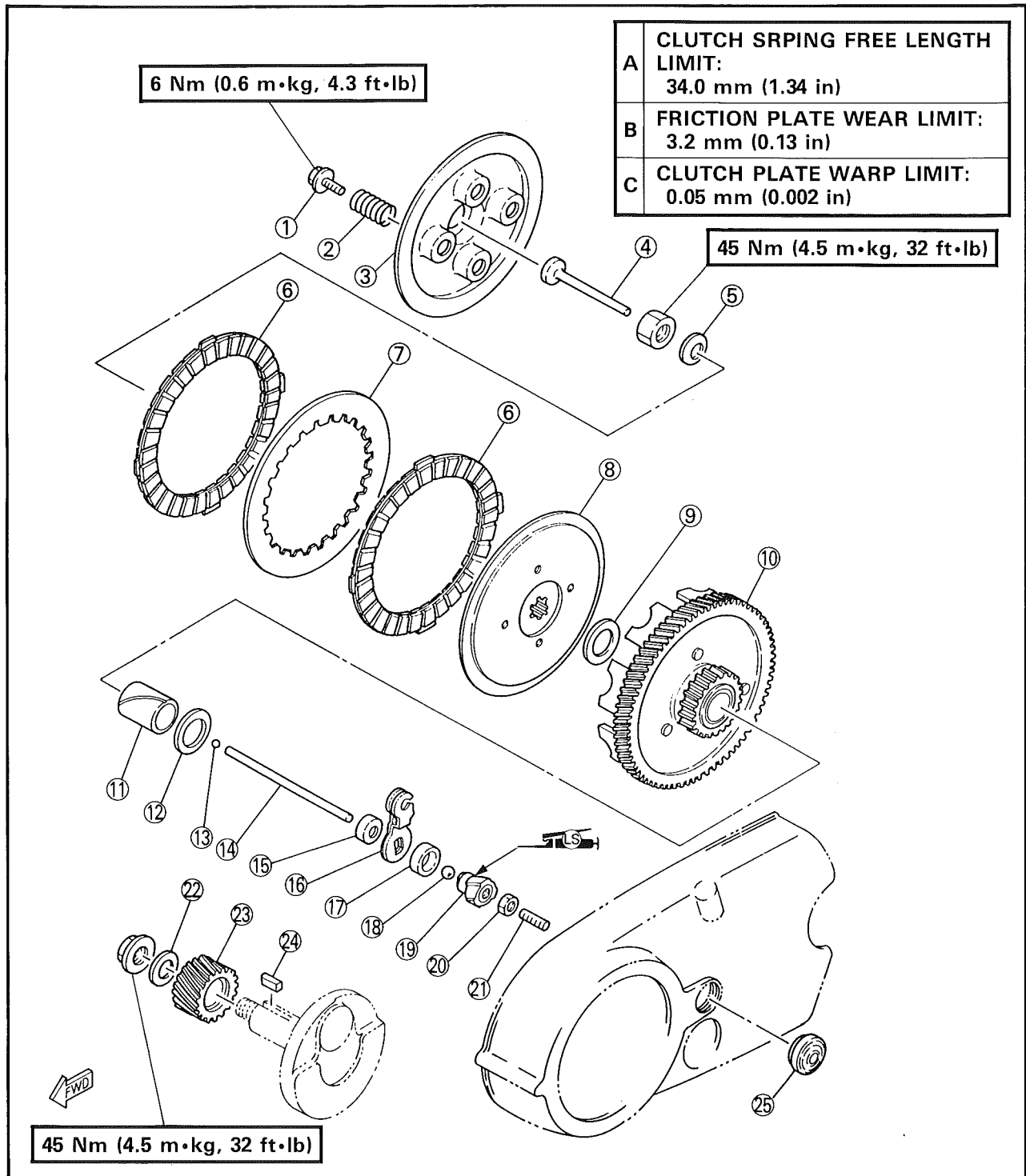
Insert the pin ⑩ in the crankshaft. Then install the crankshaft with the pin in line with the marking ① and valve collar slit ②.





CLUTCH

- | | | |
|-------------------------------|------------------|-------------------------|
| ① Clutch spring holding screw | ⑩ Clutch housing | ⑱ Ball |
| ② Clutch spring | ⑪ Collar | ⑲ Push screw |
| ③ Pressure plate | ⑫ Plain washer | ⑳ Locknut |
| ④ Push rod #1 | ⑬ Ball | ㉑ Adjusting screw |
| ⑤ Plain washer | ⑭ Push rod #2 | ㉒ Conical spring washer |
| ⑥ Friction plate | ⑮ Oil seal | ㉓ Primary drive gear |
| ⑦ Clutch plate | ⑯ Push lever | ㉔ Straight key |
| ⑧ Clutch boss | ⑰ Oil seal | ㉕ Cap |
| ⑨ Plain washer | | |



CYLINDER HEAD/CYLINDER

ENG

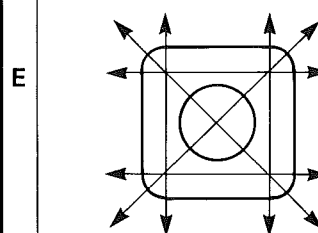


CYLINDER HEAD/CYLINDER

- ① Spark plug
- ② Cylinder head
- ③ Gasket (Cylinder head)
- ④ Cylinder
- ⑤ Gasket (Cylinder)
- ⑥ Stud bolt

A	SPARK PLUG:
B	MANUFACTURER: NGK
C	TYPE: BR-6HS (Holland) BR-7HS (Belgium, England)
D	PLUG GAP: 0.6~0.7 mm (0.02~0.03 in)

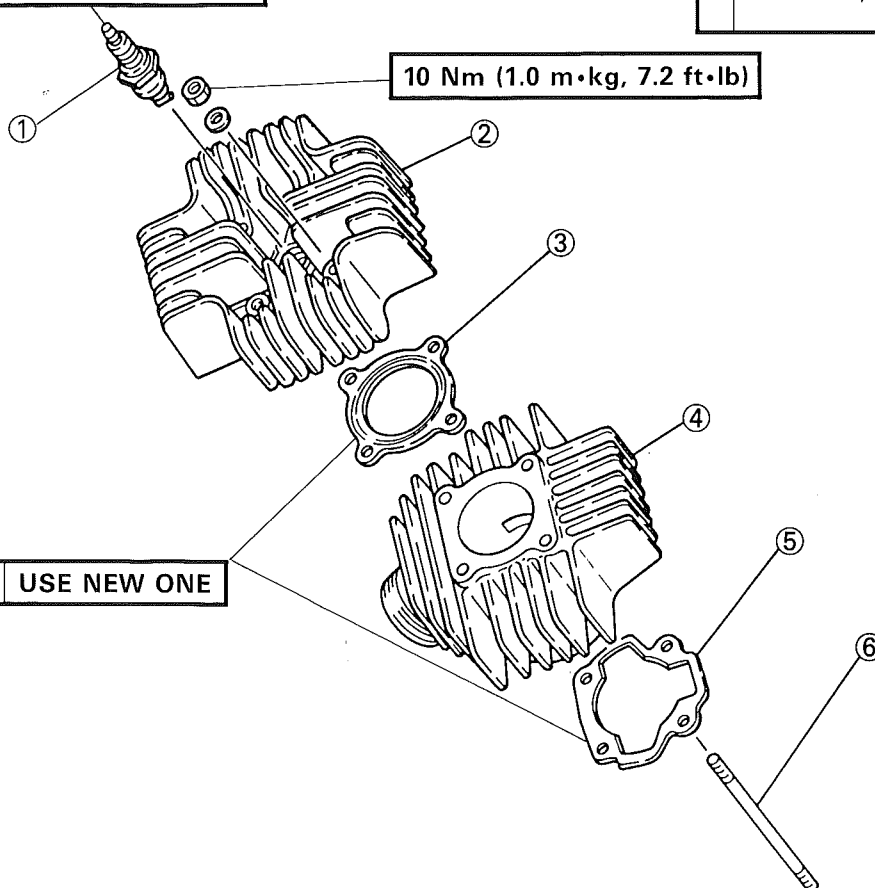
CYLINDER HEAD
WARPAGE LIMIT:
0.03 mm (0.0012 in)



25 Nm (2.5 m•kg, 18 ft•lb)

10 Nm (1.0 m•kg, 7.2 ft•lb)

F USE NEW ONE



CARBURETOR

CARB



CARBURETOR

SPECIFICATIONS

- ① Starter plunger
- ② Throttle stop screw
- ③ Throttle valve spring
- ④ Spring seat
- ⑤ Clip
- ⑥ Throttle valve
- ⑦ Jet needle
- ⑧ Valve seat assembly
- ⑨ Pilot air screw
- ⑩ Needle jet
- ⑪ Pilot jet
- ⑫ Main jet
- ⑬ Float
- ⑭ Gasket
- ⑮ O-ring
- ⑯ Drain screw
- ⑰ Overflow hose

	BELGIUM AND ENGLAND	HOLLAND
MAIN JET (M.J.)	# 150	# 78
AIR JET (A.J.)	0.5	2.3
JET NEEDLE (J.N.)	3G9-3	3E11-4
NEEDLE JET (N.J.)	E-4	←
CUTAWAY (C.A.)	1.5	2.5
PILOT JET (P.J.)	# 25	←
AIR SCREW (A.S.)	1 1/2 ~ 2	1 ~ 1 1/2
STARTER JET (G.S.)	# 35	←
ENGINE IDLING SPEED	1,250 ~ 1,350 r/min	←

