
NOTICE

This manual was written by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on Yamaha motorrepair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

Yamaha Motor Company, Ltd. is continually striving to improve all models manufactured by Yamaha. Modifications and significant changes in specifications or procedures will be forwarded to all Authorized Yamaha dealers and will, where applicable, appear in future editions of this manual.

TECHNICAL PUBLICATIONS
SERVICE DIVISION
MOTORCYCLE OPERATIONS
YAMAHA MOTOR CO., LTD

HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.

NOTE: **A NOTE** provides key information to make procedures easier or clearer.

CAUTION:

A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle.

WARNING:

A WARNING indicates special procedures that must be followed to avoid injury to a motorcycle operator or person inspecting or repairing the motorcycle.

MANUAL FORMAT

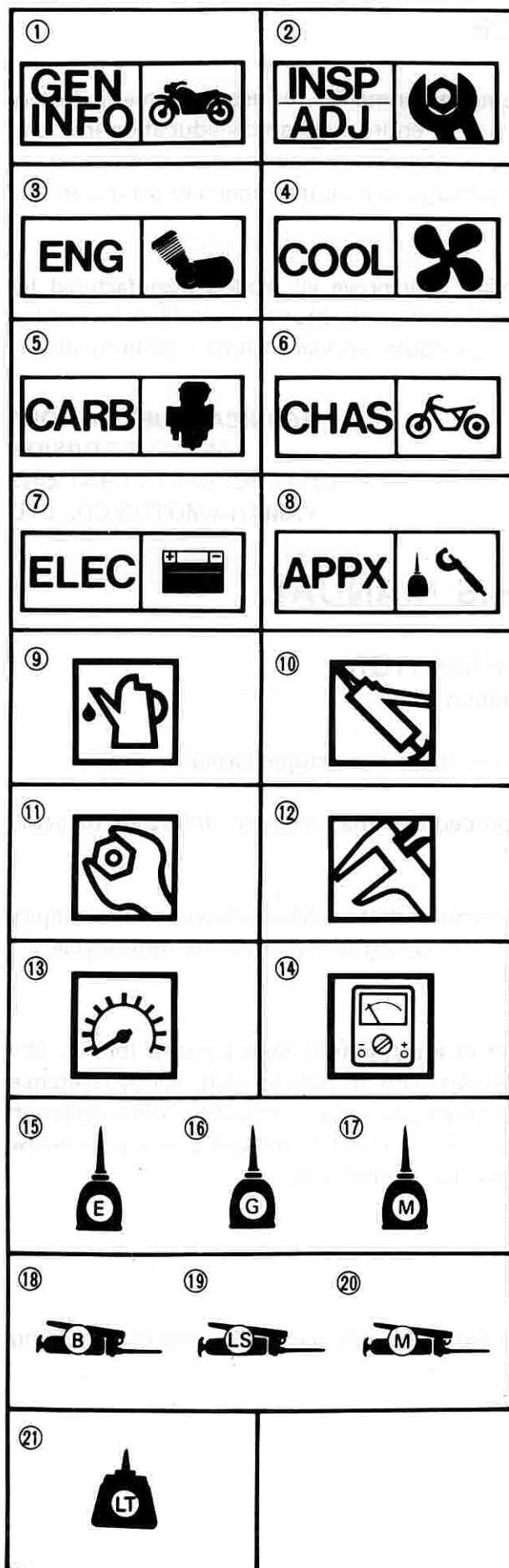
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations. In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

•Bearings

Pitting/Damage → Replace.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams before each disassembly section for ease in identifying correct disassembly and assembly procedures.



ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑧ are designed as thumb tabs to indicate the chapter's number and content.

- ① General information
- ② Periodic inspection and adjustment
- ③ Engine
- ④ Cooling system
- ⑤ Carburetion
- ⑥ Chassis
- ⑦ Electrical
- ⑧ Appendices

Illustrated symbols ⑨ to ⑭ are used to identify the specifications appearing.

- ⑨ Filling fluid
- ⑩ Lubricant
- ⑪ Tightening
- ⑫ Wear limit, clearance
- ⑬ Engine speed
- ⑭ Ω , V, A

Illustrated symbols ⑮ to ㉑ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑮ Apply engine oil
- ⑯ Apply gear oil
- ⑰ Apply molybdenum disulfide oil
- ⑱ Apply wheel bearing grease
- ⑲ Apply lightweight lithium-soap base grease
- ⑳ Apply molybdenum disulfide grease
- ㉑ Apply locking agent (LOCTITE®)

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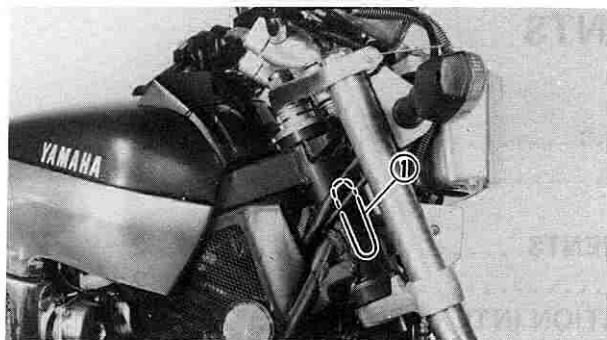
MOTORCYCLE IDENTIFICATION

GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

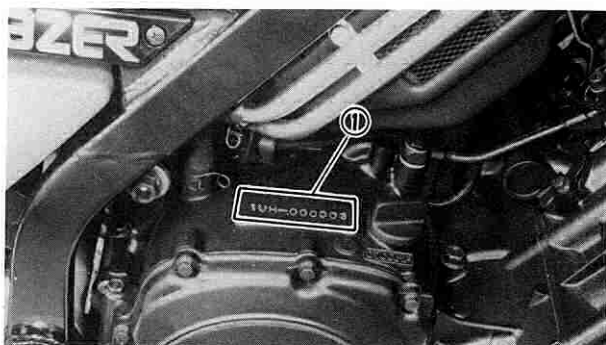
FRAME SERIAL NUMBER

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 right side 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:

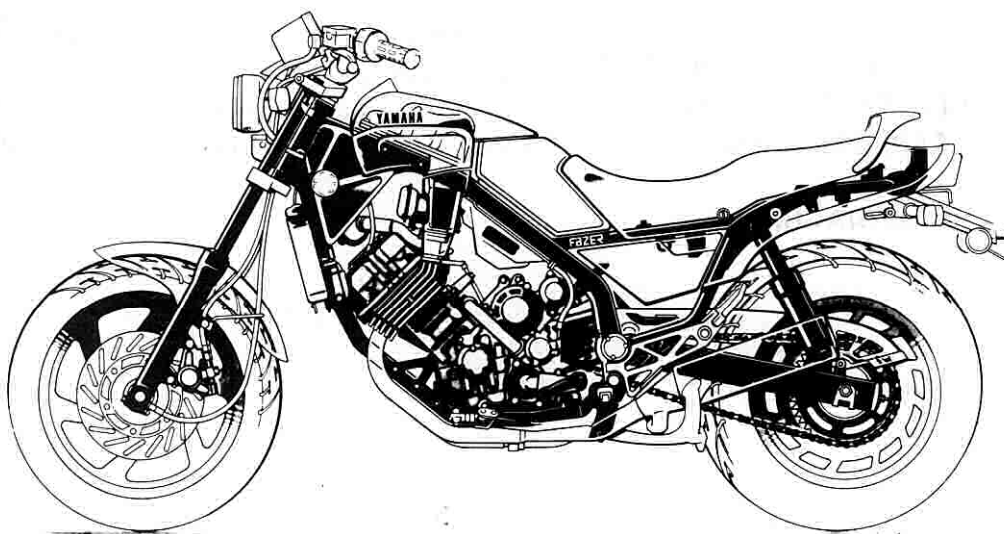
2JE-000101

For Switzerland and Austria:

2MU-000101

NOTE:

Designs and specifications are subject to change without notice.





INTRODUCTION/ PERIODIC MAINTENANCE/LUBRICATION

PERIODIC INSPECTIONS AND ADJUSTMENTS

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/LUBRICATION

Unit: km (miles)

ITEM	REMARKS	BREAK-IN 1,000 (600)	EVERY	
			6,000 (4,000) or 6 months	12,000 (8,000) or 12 months
Valve(s)*	Check valve clearance. Adjust if necessary.	Every 42,000 (26,600)		
Spark plug(s)	Check condition. Clean or replace if necessary.	○	○	○
Air filter*	Clean. Replace if necessary.		○	○
Carburetor*	Check idle speed/Synchronization/ Starter operation. Adjust if necessary.	○	○	○
Fuel line*	Check fuel hose and vacuum pipe for cracks or damage. Replace if necessary.		○	○
Engine oil	Replace (Warm engine before draining).	○	○	○
Engine oil filter*	Replace.	○		○
Brake*	Check operation/Fluid leakage/See NOTE. Correct if necessary.		○	○
Clutch*	Check operation/Fluid leakage/See NOTE. Correct if necessary.		○	○
Rear arm pivot*	Check rear arm assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.***			○
Wheels*	Check balance/Damage/Runout. Repair if necessary.		○	○
Wheel bearings*	Check bearings assembly for looseness/Damage. Replace if damaged.		○	○
Steering bearing*	Check bearings assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.***	○		○
Front forks*	Check operation/Oil leakage. Repair if necessary.		○	○
Rear shock absorber*	Check operation/Oil leakage. Repair if necessary.		○	○
Cooling system	Check coolant leakage. Repair if necessary. Replace coolant every 24,000 (16,000) or or months.		○	○
Drive chain	Check chain slack/Alignment. Adjust if necessary. Clean and lube.	EVERY 500 (300)		
Fittings/Fasteners*	Check all chassis fittings and fasteners. Correct if necessary.	○	○	○
Center and sidestand*	Check operation. Repair if necessary.	○	○	○
Sidestand switch*	Check operation. Clean or replace if necessary.	○	○	○
Battery*	Check specific gravity. Check breather pipe for proper operation. Correct if necessary.		○	○
A.C. Generator*	Check brushes for wear or damage. Replace if necessary.			○

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

**: Medium weight wheel bearing grease.

***: Lithium soap base grease.

PERIODIC MAINTENANCE/LUBRICATION



NOTE:

Brake fluid replacement:

1. When disassembling the master cylinder or caliper cylinder (clutch release cylinder), replace the brake fluid. Normally check the brake fluid level and add the fluid as required.
 2. On the inner parts of the master cylinder and caliper cylinder (clutch release cylinder), replace the oil seals every two years.
 3. Replace the brake (clutch) hoses every four years, or if cracked or damaged.
-

ENGINE ASSEMBLY AND ADJUSTMENT

ENG



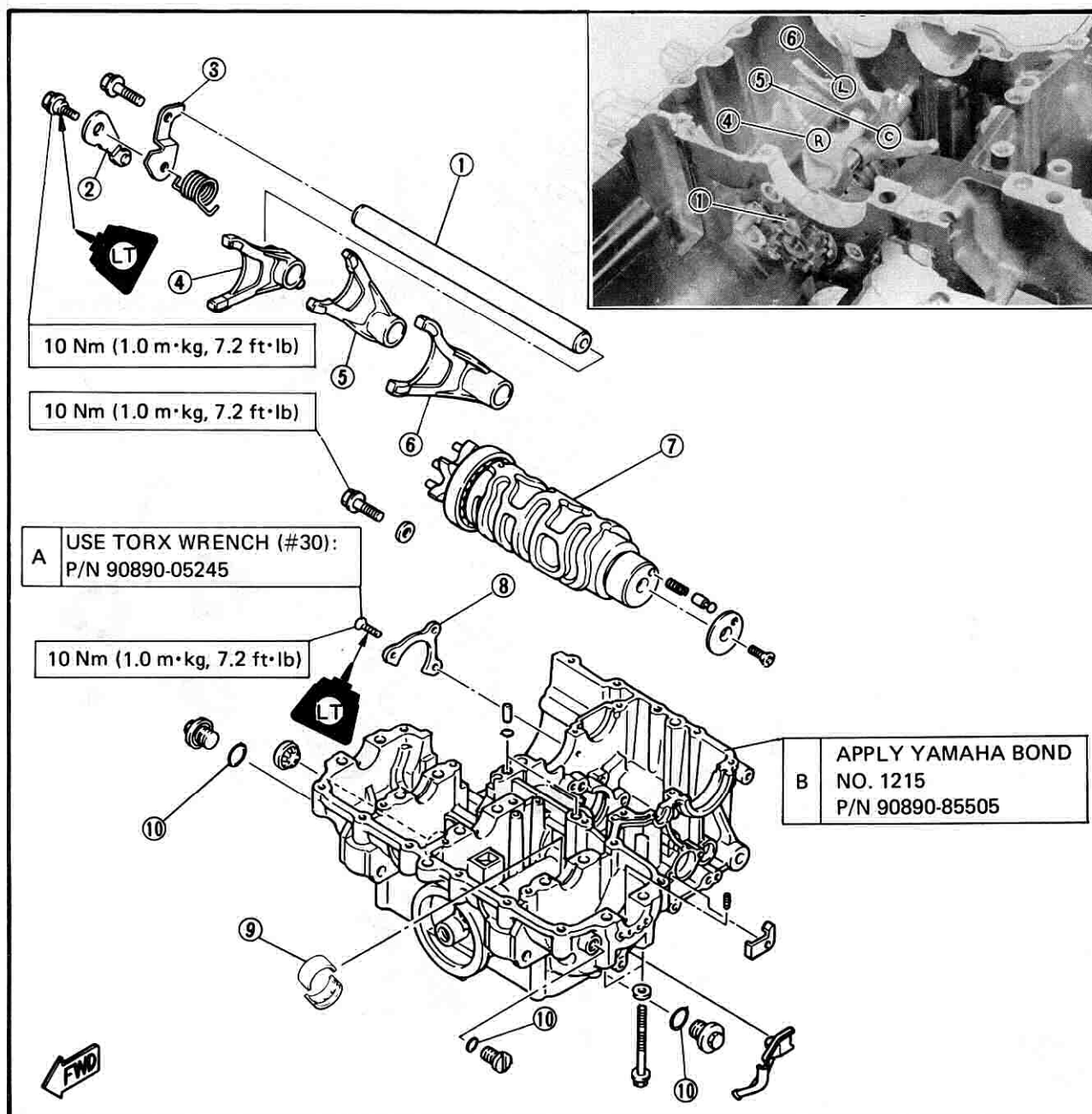
EXPLODED DIAGRAMS

LOWER CRANKCASE

- ① Guide bar
- ② Stopper lever
- ③ Shift fork guide bar stopper
- ④ Shift fork (R)
- ⑤ Shift fork (C)
- ⑥ Shift fork (L)
- ⑦ Shift cam
- ⑧ Main axle bearing stopper
- ⑨ Crankshaft main bearing
- ⑩ O-ring

CRANKSHAFT MAIN BEARING SELECTION:
CRANKSHAFT MAIN BEARING NO. =
CRANKCASE NO. - CRANKSHAFT NO.

CALCULATED NO.	COLOR CODE
1	BLUE
2	BLACK
3	BROWN
4	GREEN
5	YELLOW



ENGINE ASSEMBLY AND ADJUSTMENT

ENG

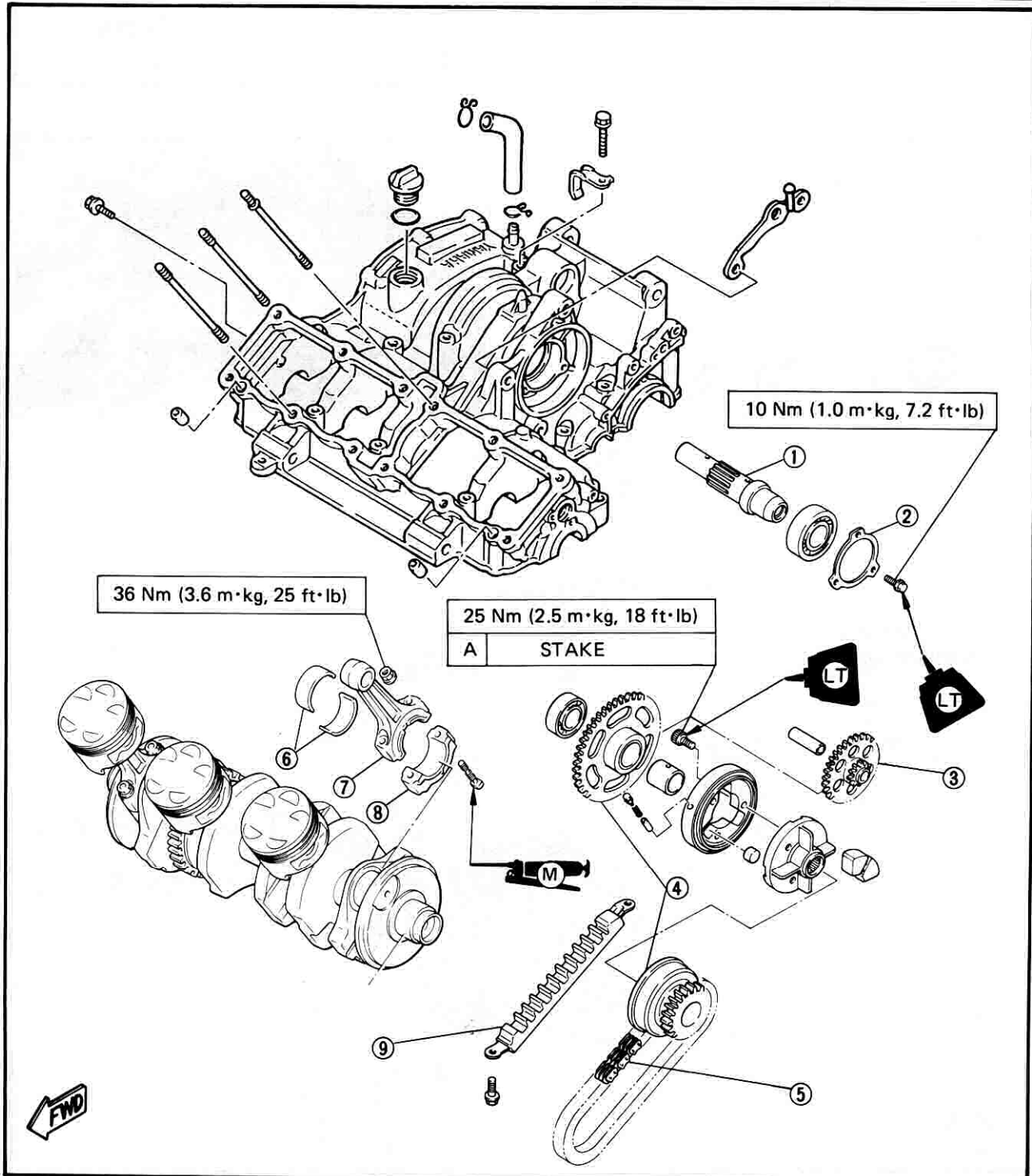


UPPER CRANKCASE

- ① AC generator shaft
- ② Cover plate
- ③ Starter idle gear
- ④ Starter clutch damper assembly
- ⑤ HY-VO chain
- ⑥ Connecting rod bearing
- ⑦ Connecting rod
- ⑧ Connecting rod cap
- ⑨ HY-VO chain guide

CONNECTING ROD BEARING SELECTION:
CONNECTING ROD BEARING =
CONNECTING ROD NO. - CRANKSHAFT NO.

CALCULATED NO.	COLOR CODE
1	BLUE
2	BLACK
3	BROWN
4	GREEN



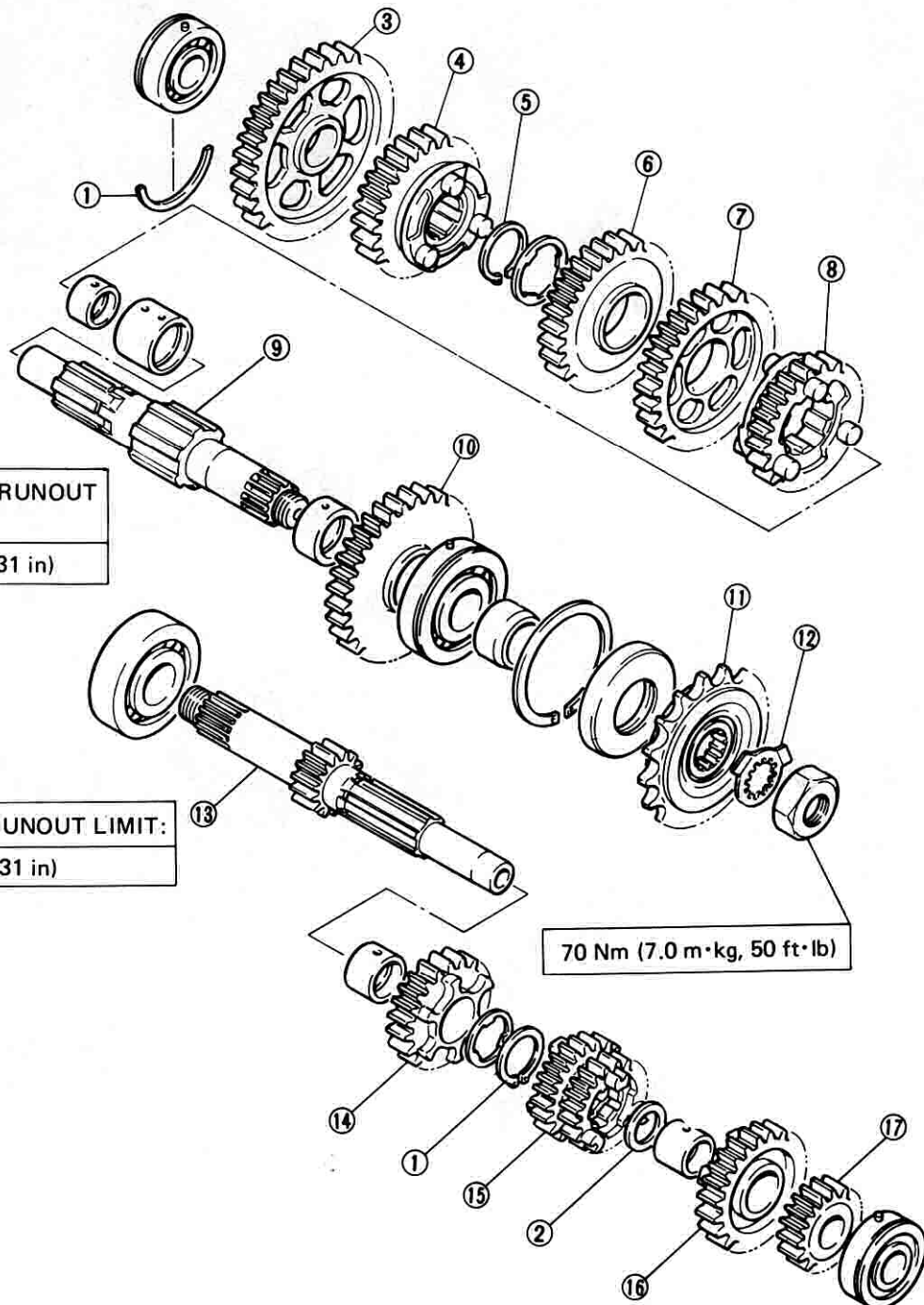
ENGINE ASSEMBLY AND ADJUSTMENT

ENG



TRANSMISSION

- | | | |
|------------------------|------------------------|---------------------------------|
| ① Circlip | ⑦ 3rd wheel gear (32T) | ⑬ Main axle |
| ② Plain washer | ⑧ 6th wheel gear (27T) | ⑭ 5th pinion gear (22T) |
| ③ 1st wheel gear (38T) | ⑨ Drive axle | ⑮ 3rd/4th pinion gear (18T/20T) |
| ④ 5th wheel gear (28T) | ⑩ 2nd wheel gear (35T) | ⑯ 6th pinion gear (24T) |
| ⑤ Circlip | ⑪ Drive sprocket | ⑰ 2nd pinion gear (16T) |
| ⑥ 4th wheel gear (30T) | ⑫ Lock washer | |



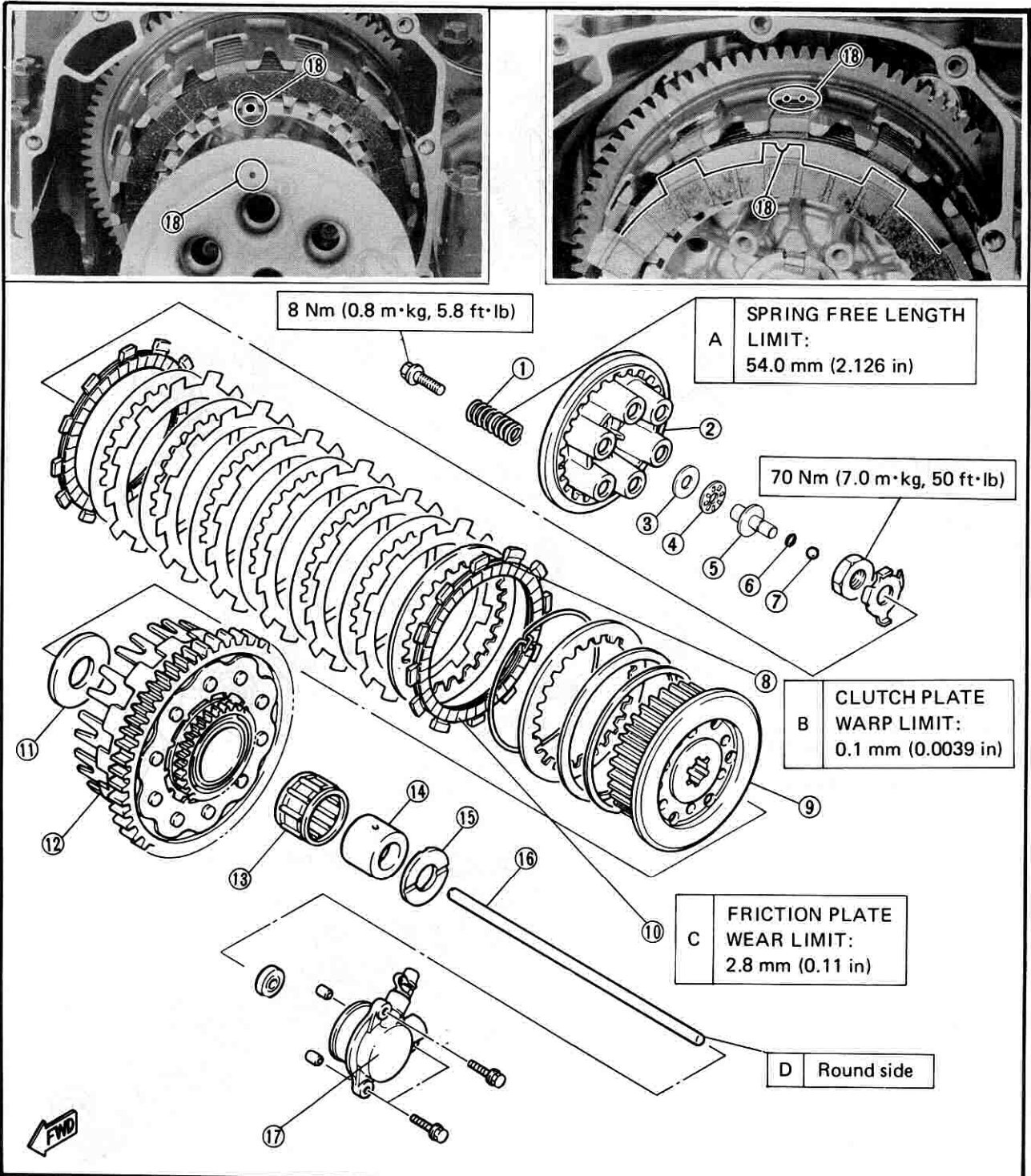
ENG



ENGINE ASSEMBLY AND ADJUSTMENT

CLUTCH

- | | | |
|--------------------|-----------------------|---------------------------|
| ① Clutch spring | ⑦ Push rod ball | ⑬ Bearing |
| ② Pressure plate | ⑧ Clutch plate | ⑭ Spacer |
| ③ Washer | ⑨ Clutch boss | ⑮ Thrust washer |
| ④ Push rod bearing | ⑩ Friction plate | ⑯ Push rod #2 |
| ⑤ Push rod #1 | ⑪ Washer | ⑰ Clutch release assembly |
| ⑥ O-ring | ⑫ Primary driven gear | ⑱ Match mark |



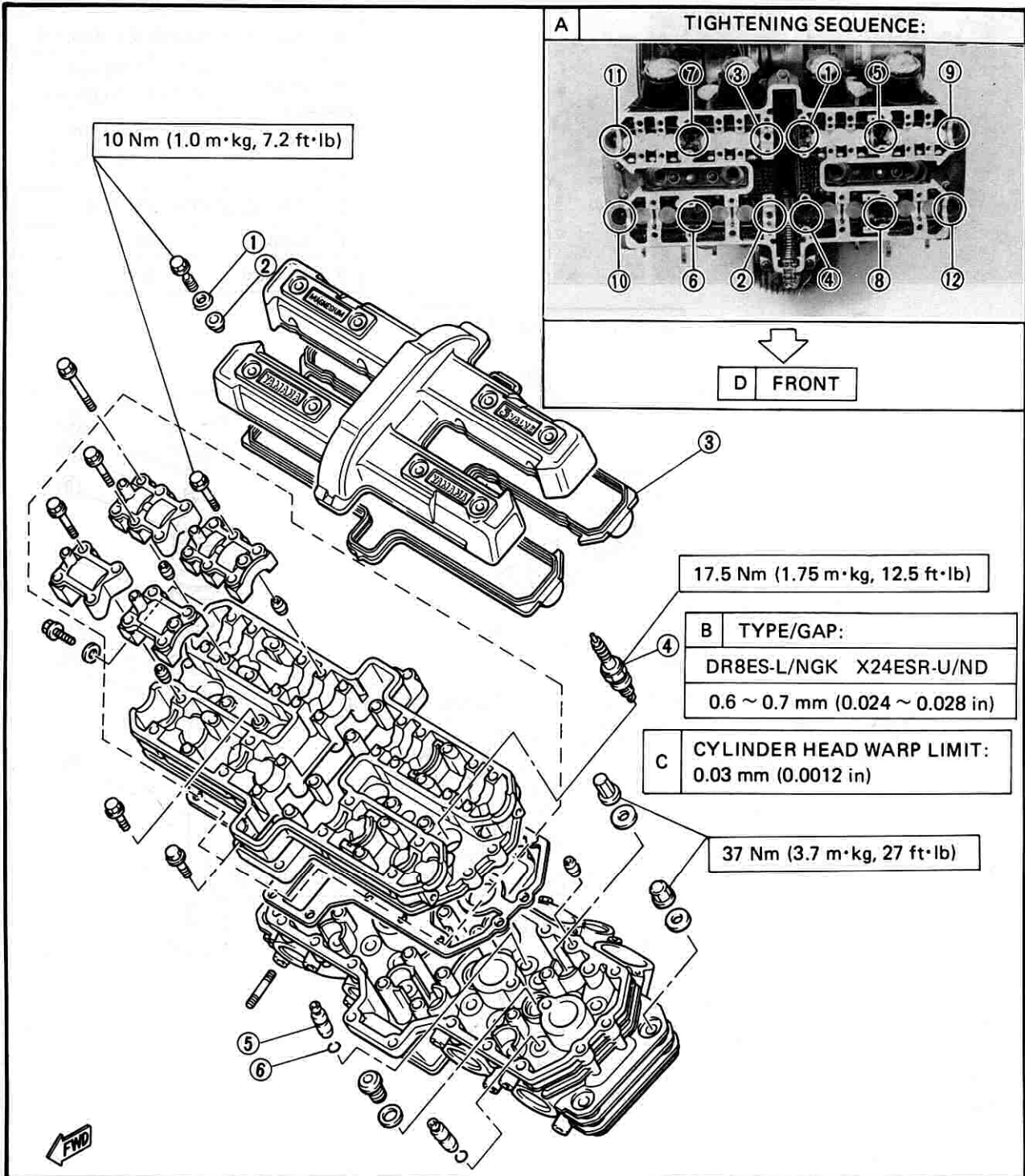
ENG



ENGINE ASSEMBLY AND ADJUSTMENT

CYLINDER HEAD

- ① Washer
- ② Rubber washer
- ③ Gasket
- ④ Spark plug
- ⑤ Valve guide
- ⑥ Circlip

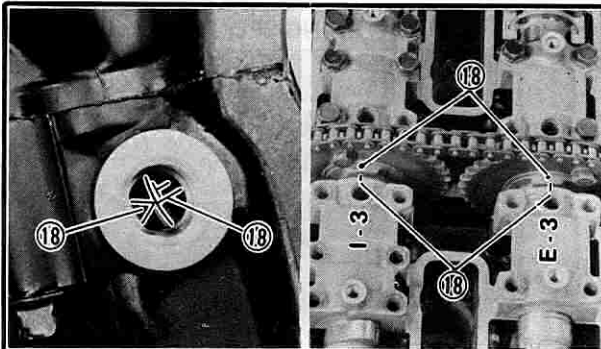




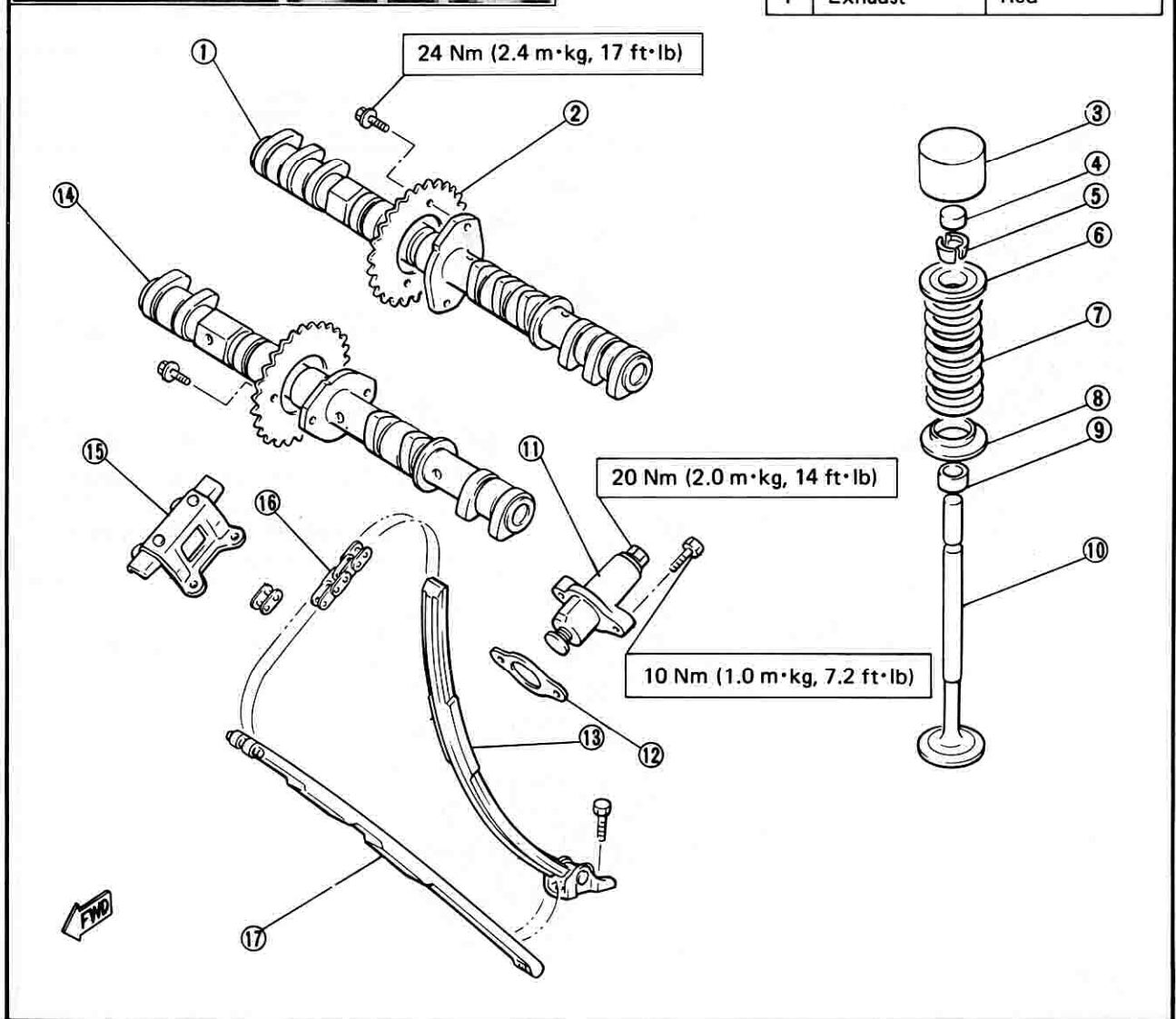
ENGINE ASSEMBLY AND ADJUSTMENT

CAMSHAFT

- | | | |
|----------------------|----------------------------|----------------------------|
| ① Camshaft (Intake) | ⑦ Valve spring | ⑬ Intake side chain guide |
| ② Cam chain sprocket | ⑧ Spring seat | ⑭ Camshaft (Exhaust) |
| ③ Valve lifter | ⑨ Oil seal | ⑮ Upper chain guide |
| ④ Valve pad | ⑩ Valve | ⑯ Cam chain |
| ⑤ Valve retainer | ⑪ Chain tensioner assembly | ⑰ Exhaust side chain guide |
| ⑥ Spring seat | ⑫ Gasket | ⑱ Match mark |



A	VALVE CLEARANCE (COLD):	
B	Intake	0.11 ~ 0.20 mm (0.004 ~ 0.008 in)
C	Exhaust	0.21 ~ 0.30 mm (0.008 ~ 0.012 in)
D	VALVE SPRING COLOR:	
E	Intake	Blue
F	Exhaust	Red



CHAS FRONT WHEEL

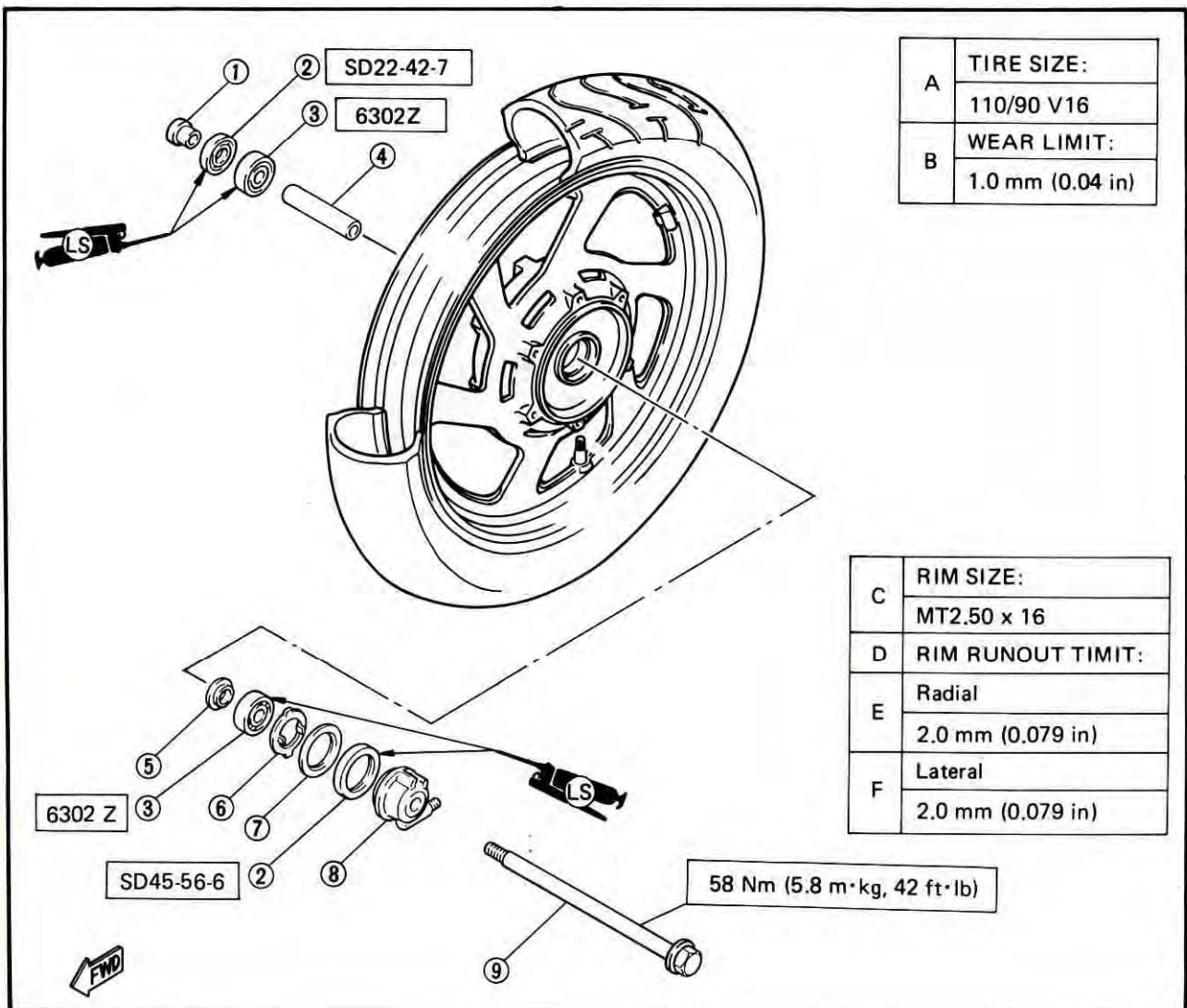
FRONT WHEEL

- ① Collar
- ② Oil seal
- ③ Bearing
- ④ Spacer
- ⑤ Spacer flange
- ⑥ Meter clutch
- ⑦ Clutch retainer
- ⑧ Speedometer housing
- ⑨ Front axle

TIRE AIR PRESSURE (COLD):

Basic weight: With oil and full fuel tank	221 kg (487 lb)	
Maximum load *	223 kg (491 lb)	
Cold tire pressure	Front	Rear
Up to 90 kg (198 lb) load *	230 kPa (2.3 kg/cm ² , 32 psi)	230 kPa (2.3 kg/cm ² , 32 psi)
90 kg (198 lb) ~ Maximum load *	230 kPa (2.3 kg/cm ² , 32 psi)	250 kPa (2.5 kg/cm ² , 36 psi)
High speed riding	230 kPa (2.3 kg/cm ² , 32 psi)	250 kPa (2.5 kg/cm ² , 36 psi)

* Load is the total weight of cargo, rider, passenger, and accessories.

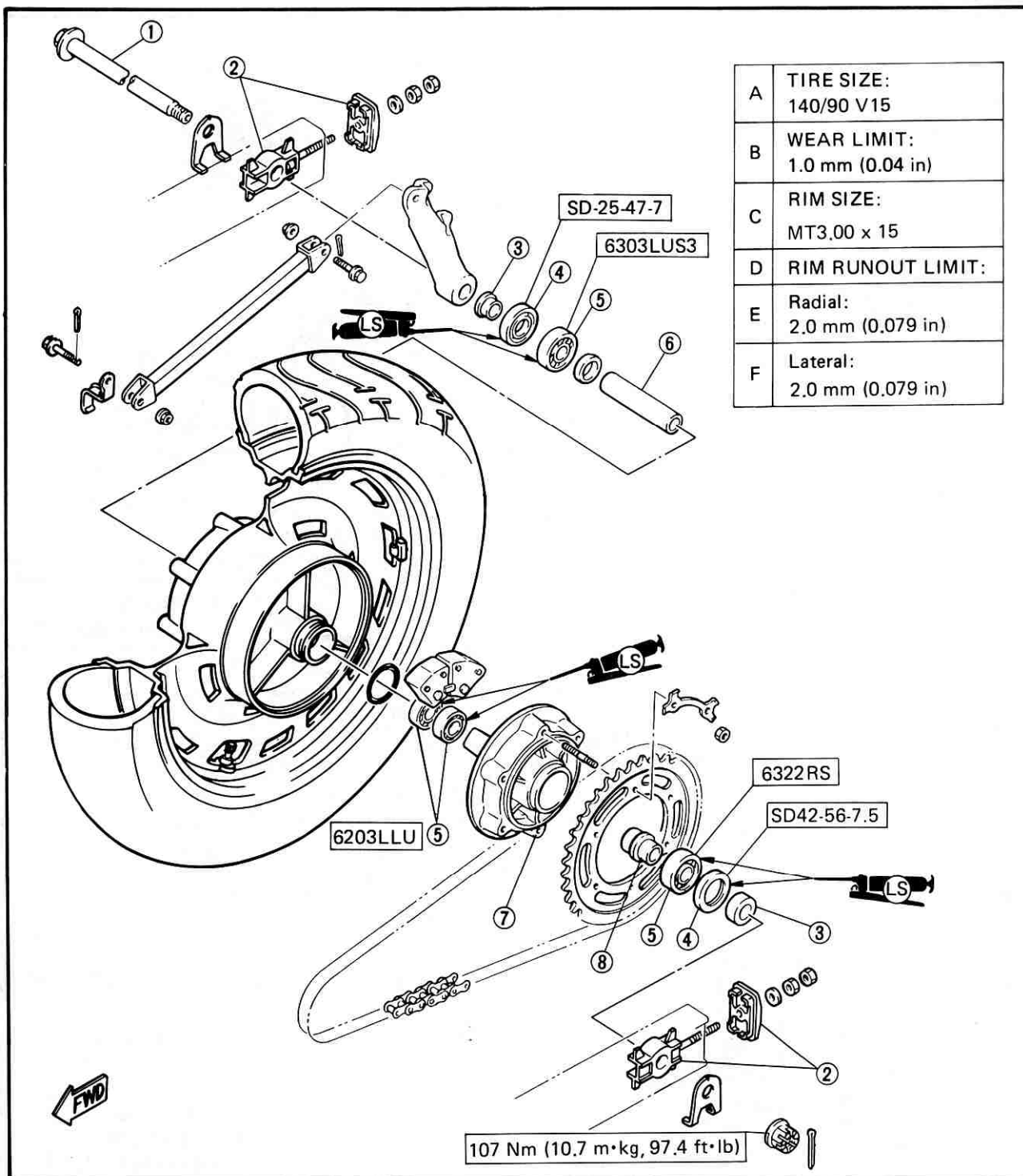




REAR WHEEL

REAR WHEEL

- ① Rear axle
- ② Drive chain puller
- ③ Collar
- ④ Oil seal
- ⑤ Bearing
- ⑥ Spacer
- ⑦ Clutch hub
- ⑧ Collar



FRONT BRAKE

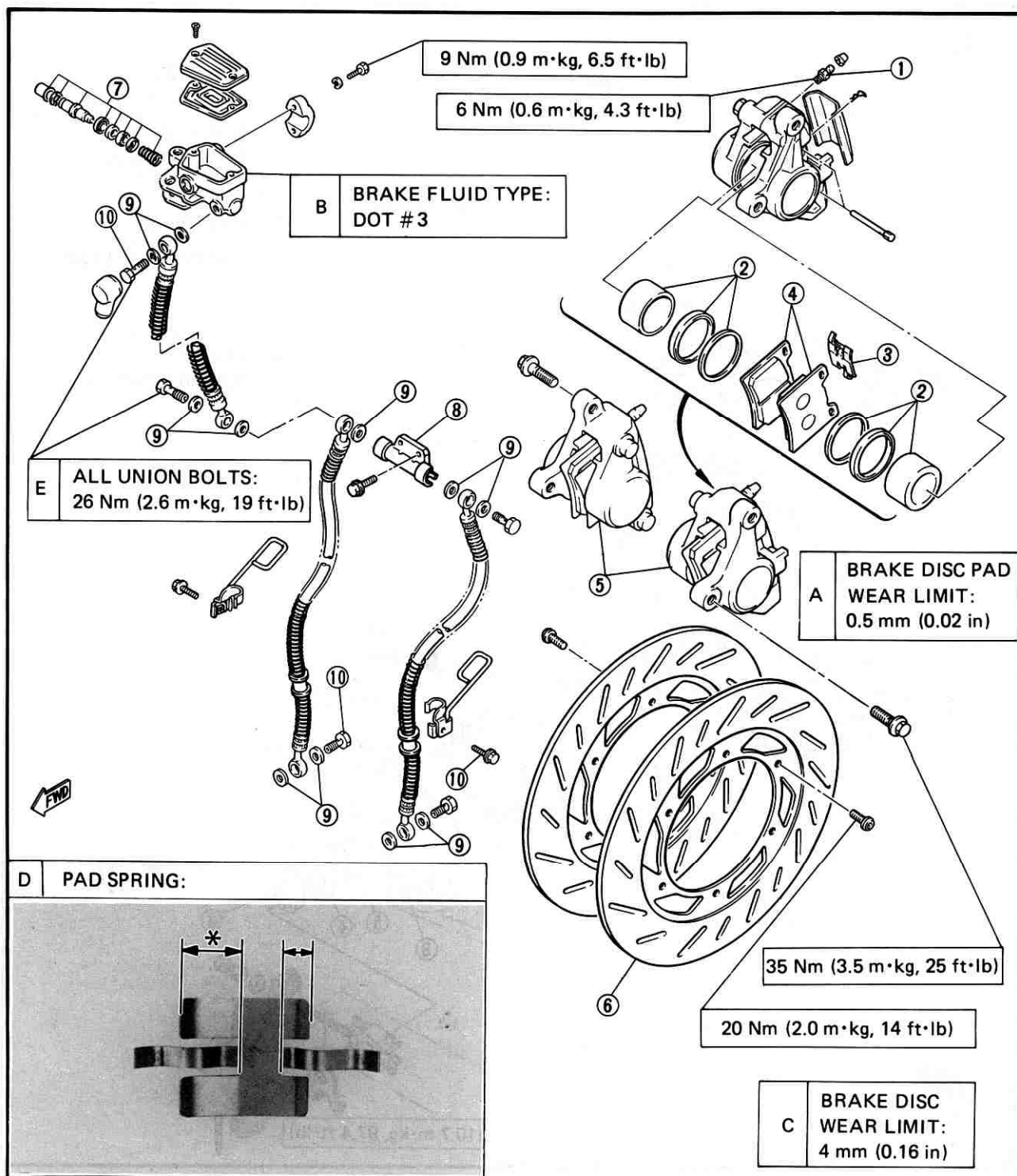


FRONT BRAKE

- | | |
|---------------------------|-----------------------|
| ① Air bleed screw | ⑥ Brake disc |
| ② Caliper piston assembly | ⑦ Master cylinder kit |
| ③ Pad spring | ⑧ Joint |
| ④ Brake pad | ⑨ Copper washer |
| ⑤ Brake caliper | ⑩ Union bolt |

NOTE:

Install the pad spring with its longer tangs (*) in the disc rotation direction.



REAR BRAKE

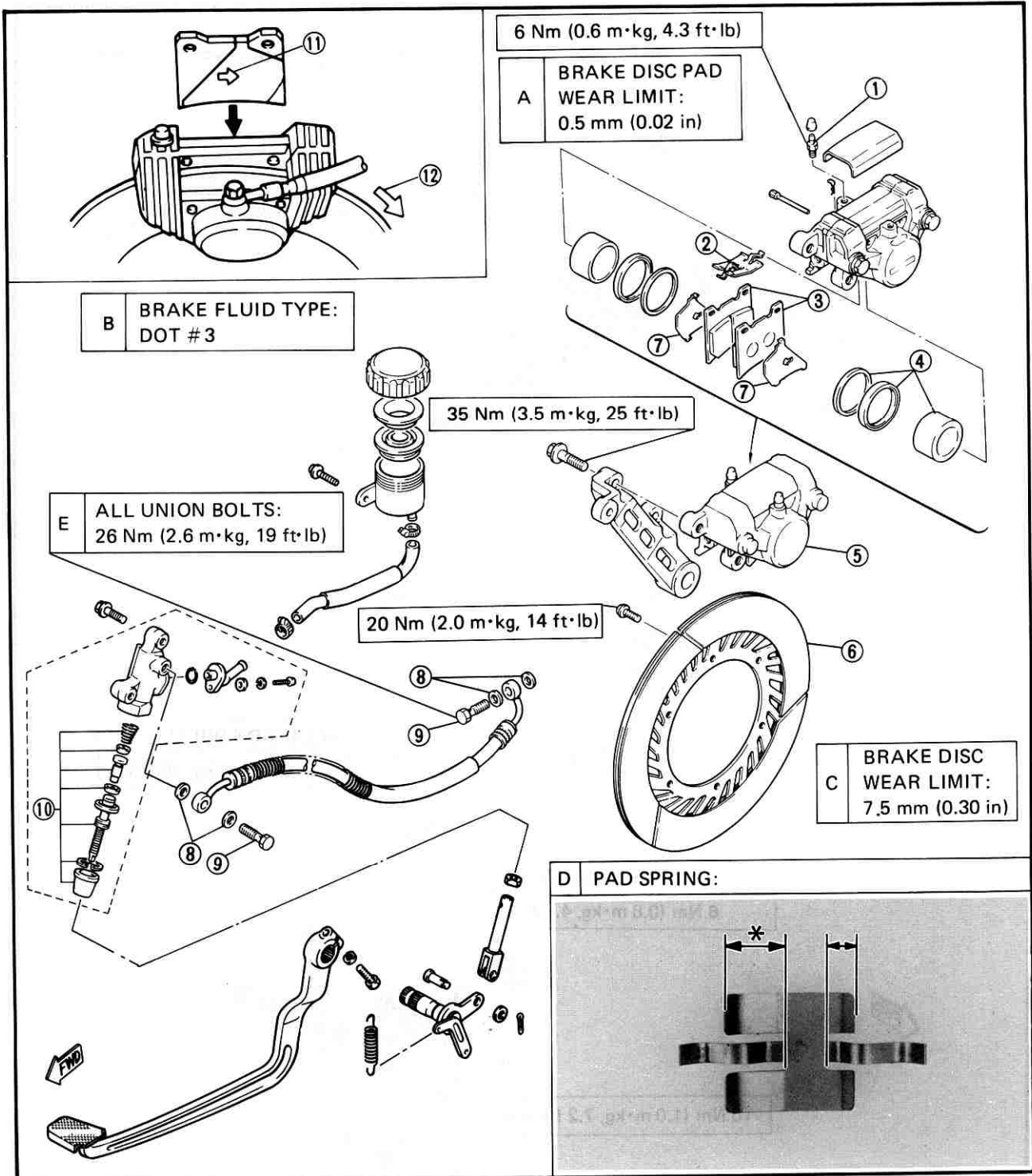


REAR BRAKE

- | | |
|---------------------------|-----------------------|
| ① Bleed screw | ⑥ Brake disc |
| ② Pad spring | ⑦ Shim |
| ③ Brake pad | ⑧ Copper washer |
| ④ Caliper piston assembly | ⑨ Union bolt |
| ⑤ Brake caliper | ⑩ Master cylinder kit |

NOTE:

- Install the pad spring with its longer tangs (✱) in the disc rotation direction.
- Be sure to position the shim so that its arrow mark ⑪ points in the direction of the disc plate rotation ⑫.

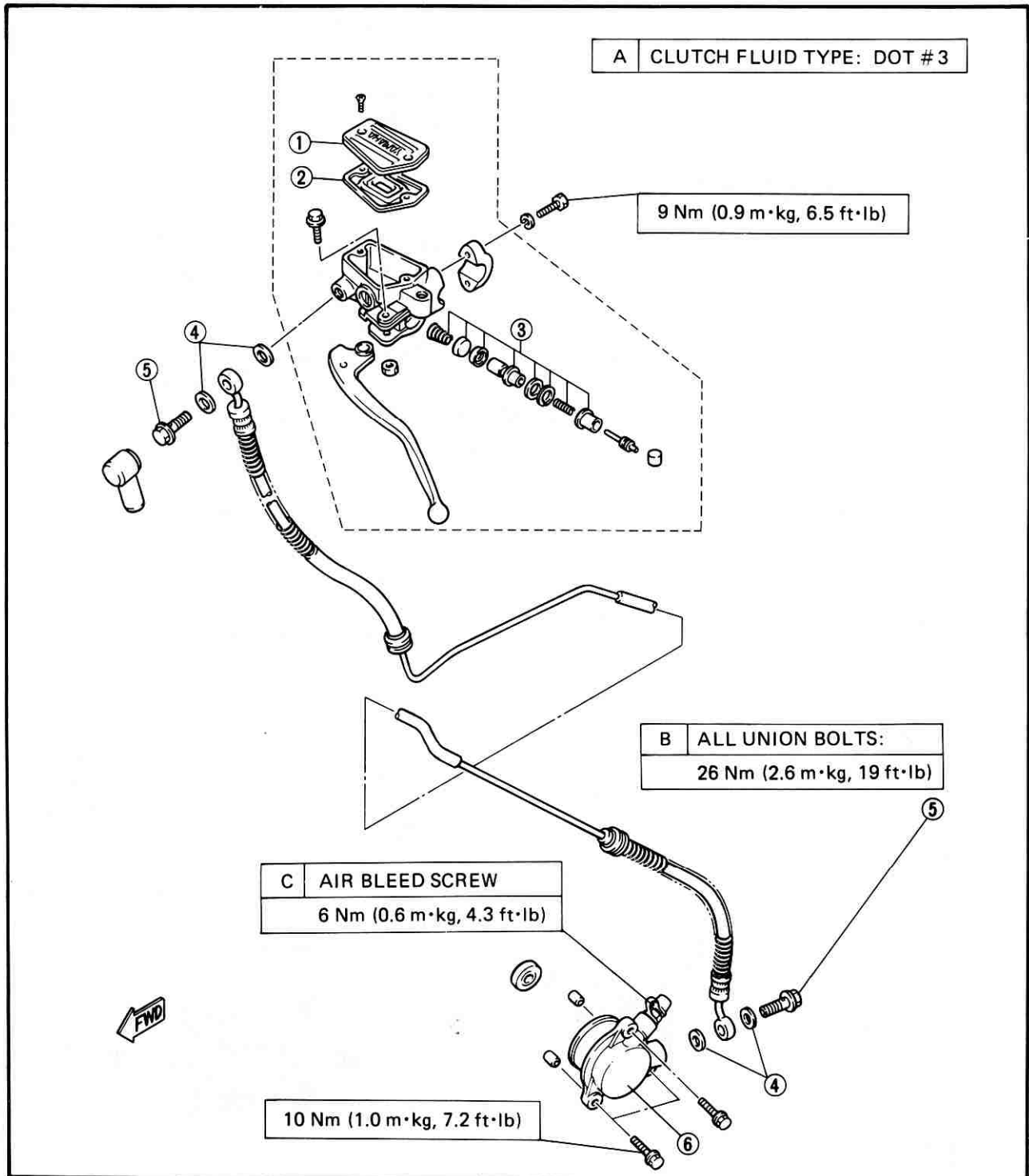




HYDRAULIC CLUTCH

HYDRAULIC CLUTCH

- ① Master cylinder cap
- ② Rubber seal
- ③ Master cylinder kit
- ④ Copper washer
- ⑤ Union bolt
- ⑥ Clutch release assembly



FRONT FORK



FRONT FORK

- | | |
|-------------------|----------------------------|
| ① Air valve cap | ⑩ Dust seal |
| ② Cap bolt | ⑪ Retaining clip |
| ③ O-ring | ⑫ Oil seal |
| ④ Spring seat | ⑬ Plate washer |
| ⑤ Fork spring | ⑭ Guide bushing |
| ⑥ Damper rod | ⑮ Outer fork tube |
| ⑦ Inner fork tube | ⑯ Drain screw |
| ⑧ Taper spindle | ⑰ Damper rod securing bolt |
| ⑨ Dust seal cover | |

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>FORK OIL (EACH):</td> </tr> <tr> <td style="text-align: center;">B</td> <td>CAPACITY:</td> </tr> <tr> <td></td> <td>294 cm³ (10.3 Imp oz, 9.94 US oz)</td> </tr> <tr> <td style="text-align: center;">C</td> <td>GRADE:</td> </tr> <tr> <td></td> <td>Fork oil 10wt or equivalent</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">D</td> <td>FORK SPRING: FREE LENGTH</td> </tr> <tr> <td></td> <td>575.6 mm (22.66 in)</td> </tr> <tr> <td style="text-align: center;">E</td> <td>FORK SPRING: LIMIT LENGTH</td> </tr> <tr> <td></td> <td>570.6 mm (22.46 in)</td> </tr> </table>	A	FORK OIL (EACH):	B	CAPACITY:		294 cm ³ (10.3 Imp oz, 9.94 US oz)	C	GRADE:		Fork oil 10wt or equivalent	D	FORK SPRING: FREE LENGTH		575.6 mm (22.66 in)	E	FORK SPRING: LIMIT LENGTH		570.6 mm (22.46 in)	<div style="text-align: right; margin-bottom: 10px;"> 23 Nm (2.3 m·kg, 17 ft·lb) </div> <div style="text-align: right; margin-top: 10px;"> 23 Nm (2.3 m·kg, 17 ft·lb) </div>
A	FORK OIL (EACH):																		
B	CAPACITY:																		
	294 cm ³ (10.3 Imp oz, 9.94 US oz)																		
C	GRADE:																		
	Fork oil 10wt or equivalent																		
D	FORK SPRING: FREE LENGTH																		
	575.6 mm (22.66 in)																		
E	FORK SPRING: LIMIT LENGTH																		
	570.6 mm (22.46 in)																		

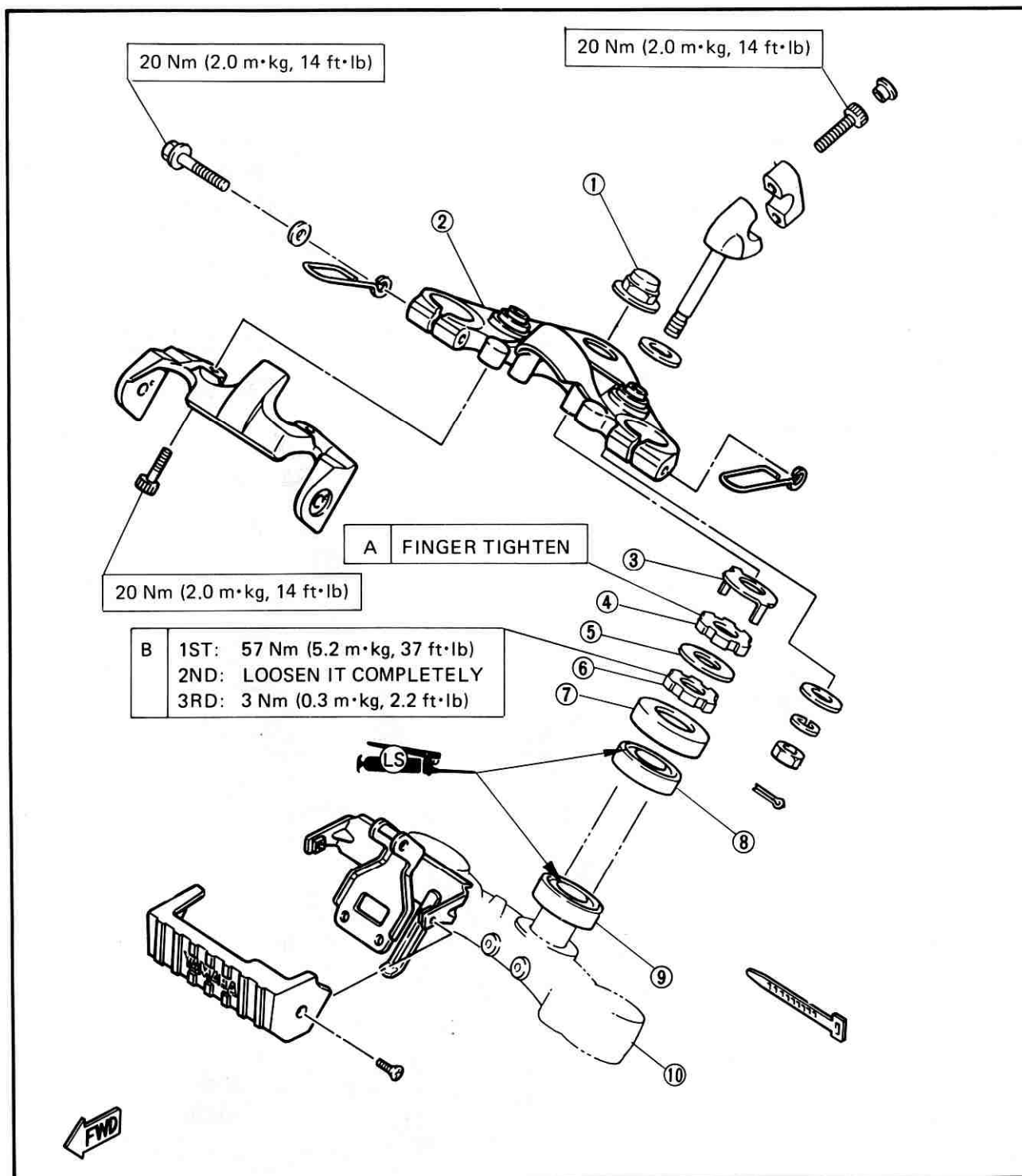
F	AIR PRESSURE:
	STANDARD:
	40 kPa (0.4 kg/cm ² , 5.7 psi)
	MINIMUM:
	40 kPa (0.4 kg/cm ² , 5.7 psi)
	MAXIMUM:
	120 kPa (1.2 kg/cm ² , 17 psi)



STEERING HEAD

STEERING HEAD

- | | |
|---------------------|-------------------|
| ① Steering stem nut | ⑥ Lower ring nut |
| ② Steering crown | ⑦ Bearing cover |
| ③ Lock washer | ⑧ Bearing (Upper) |
| ④ Upper ring nut | ⑨ Bearing (Lower) |
| ⑤ Washer | ⑩ Steering stem |



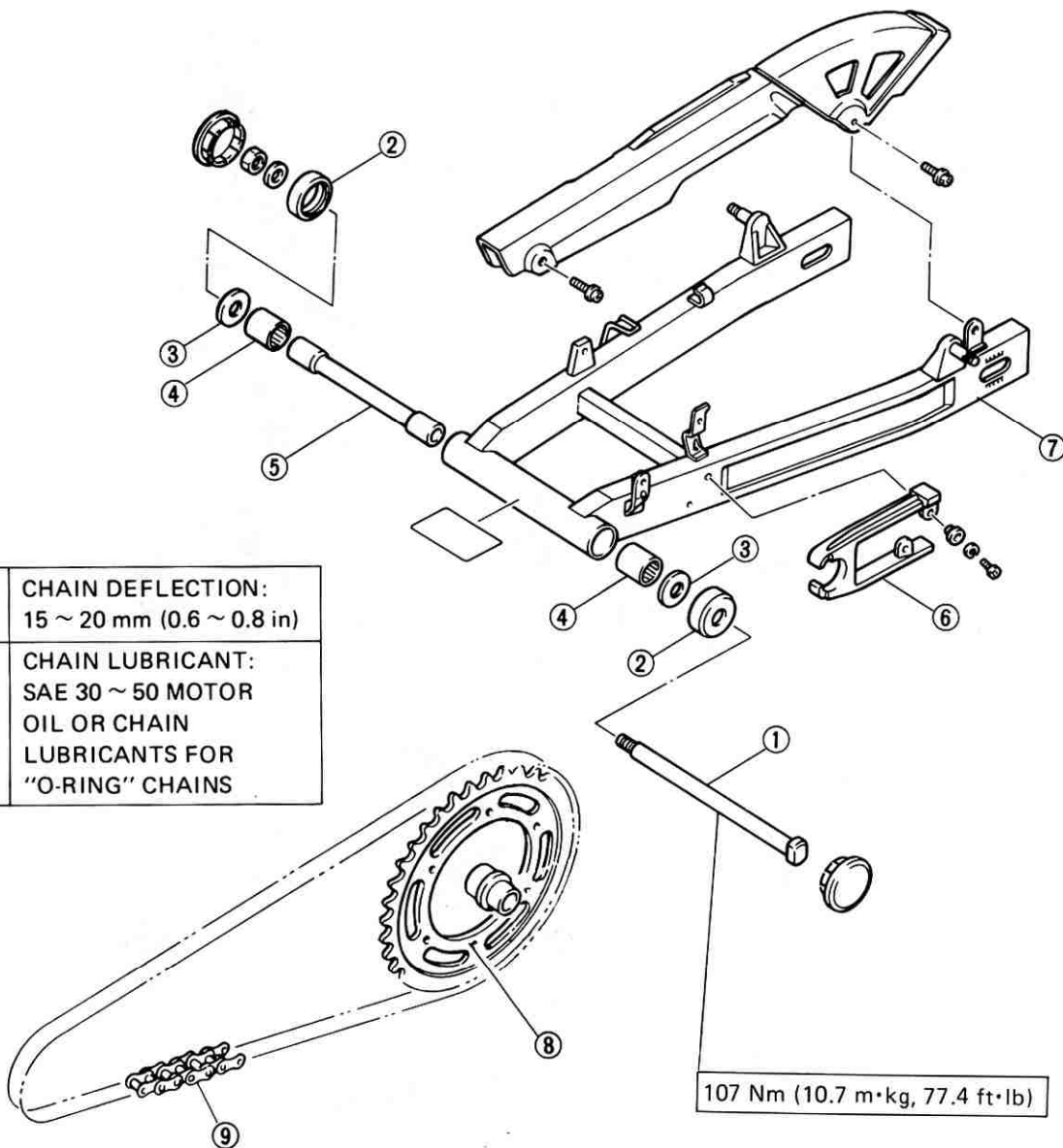


SWINGARM AND DRIVE CHAIN

SWINGARM AND DRIVE CHAIN

- | | |
|----------------|-------------------|
| ① Pivot shaft | ⑥ Guard seal |
| ② Thrust cover | ⑦ Swingarm |
| ③ Washer | ⑧ Driven sprocket |
| ④ Bearing | ⑨ Drive chain |
| ⑤ Collar | |

A	CHAIN DEFLECTION: 15 ~ 20 mm (0.6 ~ 0.8 in)
B	CHAIN LUBRICANT: SAE 30 ~ 50 MOTOR OIL OR CHAIN LUBRICANTS FOR "O-RING" CHAINS



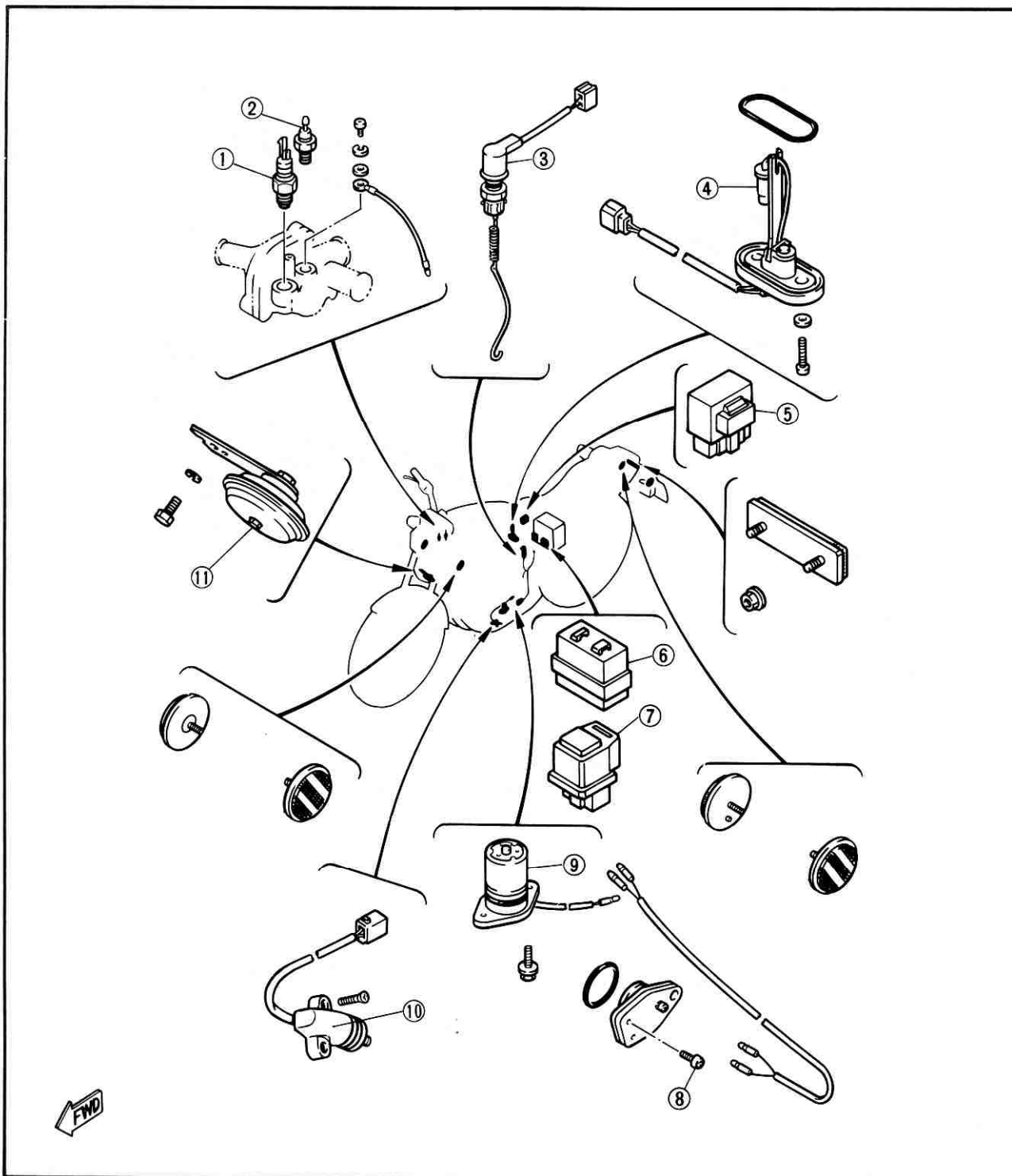
ELEC



ELECTRICAL COMPONENTS

ELECTRICAL COMPONENTS

- | | |
|-----------------------------|--------------------|
| ① Thermo switch | ⑩ Sidestand switch |
| ② Thermo unit | ⑪ Horn |
| ③ Rear brake switch | |
| ④ Fuel sender | |
| ⑤ Fuel pump controller unit | |
| ⑥ Relay assembly | |
| ⑦ Sidestand relay | |
| ⑧ Neutral switch | |
| ⑨ Oil level switch | |



ELECTRICAL COMPONENTS

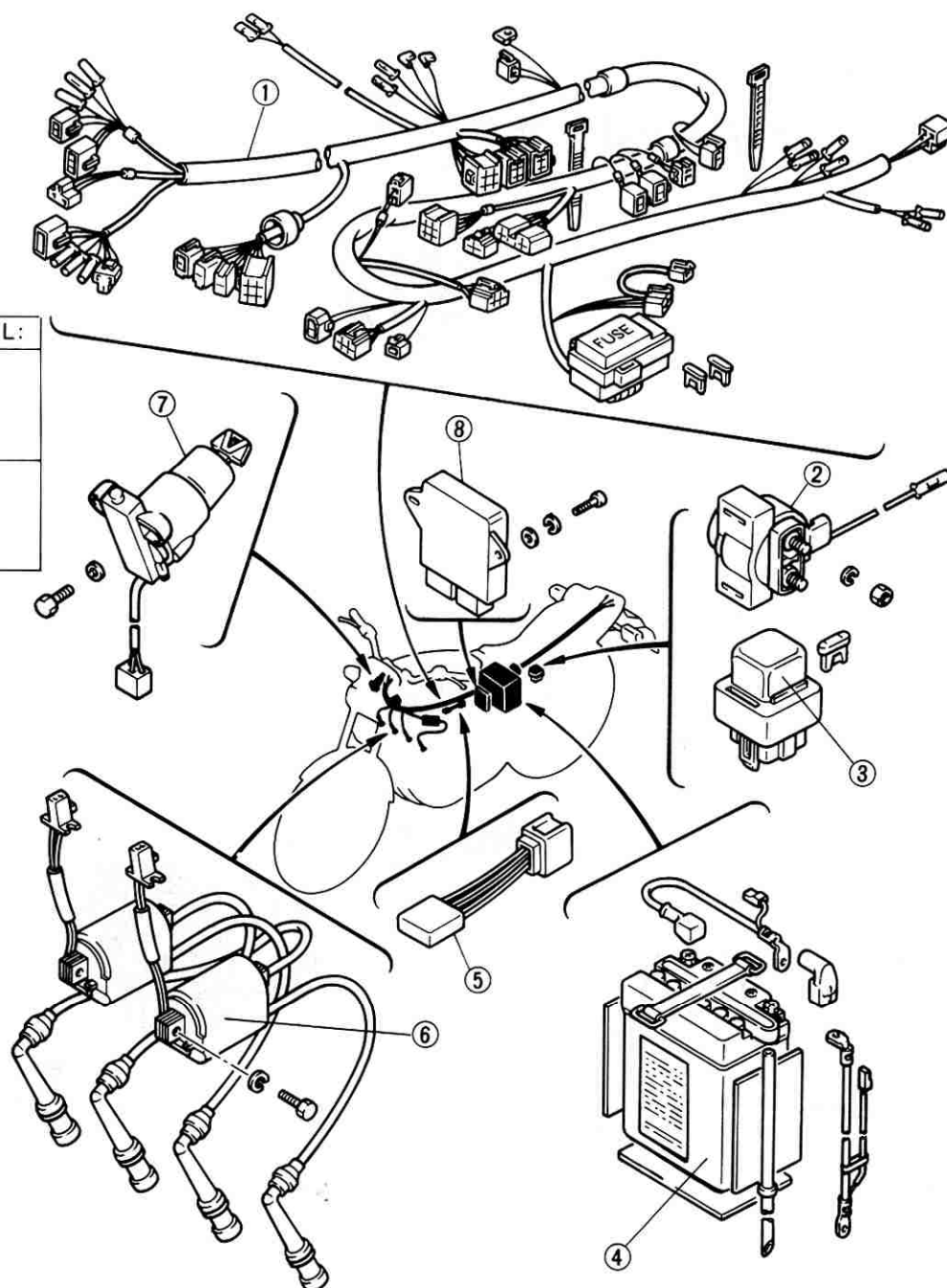
ELEC



- ① Wire harness
- ② Starter relay
- ③ Fuse box
- ④ Battery
- ⑤ Diode block
- ⑥ Ignition coil
- ⑦ Main switch
- ⑧ Ignitor unit

A	BATTERY
B	CAPACITY: 12V 14AH
C	SPECIFIC GRAVITY: 1.280

D	IGNITION COIL:
E	PRIMARY WINDING RESISTANCE: 2.4 ~ 3.0Ω
F	SECONDARY WINDING RESISTANCE: 7.5 ~ 11.5 kΩ



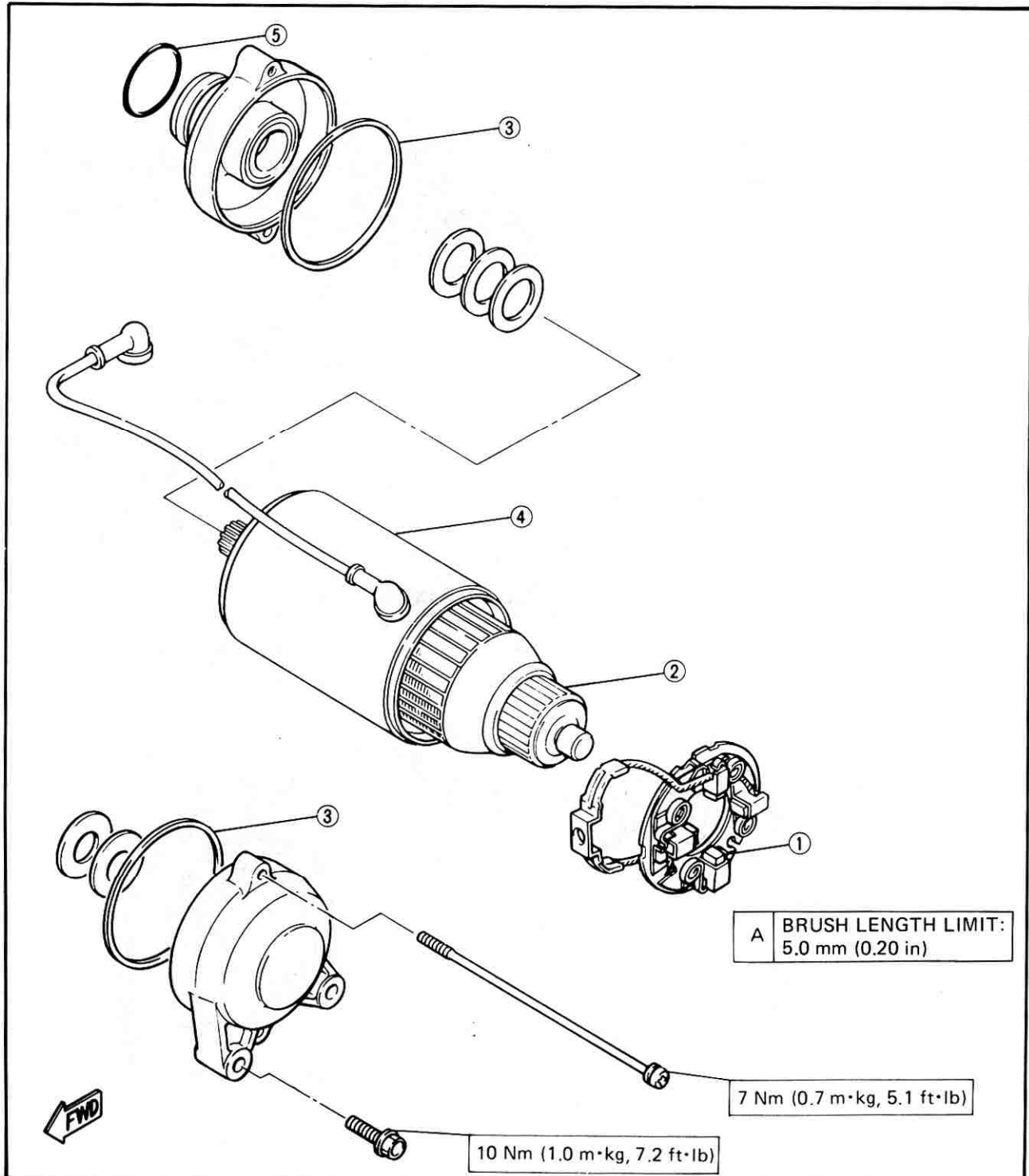
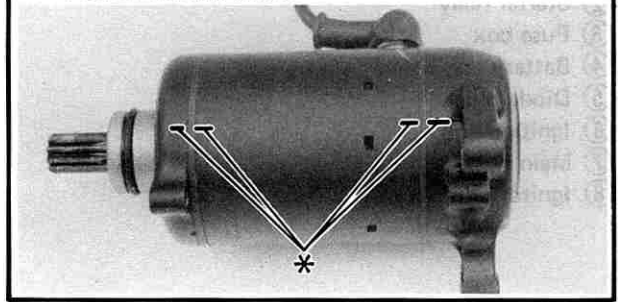


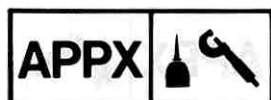
ELECTRIC STARTING SYSTEM

STARTER MOTOR

- ① Brush
- ② Armature
- ③ Gasket
- ④ Stator
- ⑤ O-ring

* ALIGNING MARKS





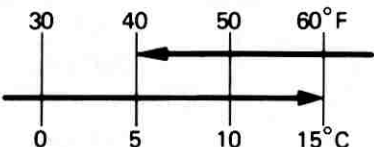
SPECIFICATIONS

APPENDICES

SPECIFICATIONS

GENERAL SPECIFICATIONS

(E): England (FI): Finland (F): France (Gr): Greece
(H): Holland (I): Italy (N): Norway (Ar): Austria
(B): Belgium (D): Denmark (G): Germany (Sw): Sweden
(S): Switzerland (Cr): Canary Is

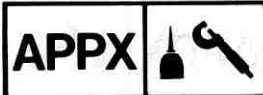
Item	Model	FZX750
Model Code Number:	2JE, 2MU (S) (Ar)	
Engine Starting Number:	2JE-000101, 2MU-000101 (S) (Ar)	
Dimensions:		
Overall Length	2,245 mm (88.4 in)	
Overall Width	785 mm (30.9 in)	
Overall Height	1,110 mm (43.7 in)	
Seat Height	750 mm (29.5 in)	
Wheelbase	1,525 mm (60.0 in)	
Minimum Ground Clearance	150 mm (5.9 in)	
Basic Weight:		
Weight Oil and Full-Fuel Tank	221 kg (487 lb)	
Minimum Turning Radius:	2,800 mm (110 in)	
Engine:		
Engine Type	Liquid cooled 4-stroke gasoline, DOHC	
Cylinder Arrangement	Parallel, 4-cylinder, Forward inclined	
Displacement	749 cm ³	
Bore x Stroke	68.0 x 51.6 mm (6.68 x 2.03 in)	
Compression Ratio	11.2 : 1	
Compression Pressure	1,100 kPa (11.0 kg/cm ² , 156 psi)	
Starting System	Electric starter	
Lubrication System:	Wet sump	
Oil Type or Grade:		
Engine Oil:		
		
	Yamalube 4-cycle oil or SAE 20W40 type SE motor oil (If temperature does not go below 5°C (40°F)) SAE 10W30 type SE motor oil (If temperature does not go above 15°C (60°F))	
Oil Capacity:		
Engine Oil:		
Periodic Oil Change	2.7 L (2.4 Imp qt, 2.9 US qt)	
With Oil Filter Replacement	3.0 L (2.6 Imp qt, 3.1 US qt)	
Total Amount	3.5 L (3.1 Imp qt, 3.7 US qt)	
Coolant Total Amount:		
(Including All Routes)	2.25 L (2.02 Imp qt, 2.38 US qt)	
Air Filter:	Dry type element	
Fuel:		
Type	Regular gasoline	
Tank Capacity	13.0 L (2.86 Imp gal, 3.4 US gal)	
Carburetor:		
Type/Manufacturer	BDS34 x 4/MIKUNI	

SPECIFICATIONS

APPX



Item	Model	FZX750
Spark Plug: Type/Manufacturer Gap		DR8ES-L/NGK, X24ESR-U/ND. 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Clutch Type:		Wet, multiple-disc
Transmission: Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Transmission Type Operation Gear Ratio: 1st 2nd 3rd 4th 5th 6th		Spur gear 91/48 (1.896) Chain Drive 39/17 (2.294) Constant mesh, 6-speed Left foot operation 38/13 (2.923) 35/16 (2.188) 32/18 (1.778) 30/20 (1.500) 28/22 (1.273) 27/24 (1.125)
Chassis: Frame Type Caster Angle Trail		Double cradle 28° 45' 114 mm (4.49 in)
Tire: Type Size (F) Size (R)		Tubeless 110/90 V16 140/90 V15
Tire Pressure (Cold tire): Basic Weight: With Oil and Full Fuel Tank Maximum Load*		221 kg (110 lb) 223 kg (111 lb)
Cold Tire Pressure		FrontRear
Up to 90 kg (198 lb) Load*		230 kPa (2.3 kg/cm ² , 32 psi)230 kPa (2.3 kg/cm ² , 32 psi)
90 kg (198 lb) ~ Maximum Load*		230 kPa (2.3 kg/cm ² , 32 psi)250 kPa (2.5 kg/cm ² , 36 psi)
High Speed Riding		230 kPa (2.3 kg/cm ² , 32 psi)250 kPa (2.5 kg/cm ² , 36 psi)
* Load is the total weight of cargo, rider, passenger, and accessories.		
Brake: Front Brake Type Operation Rear Brake Type Operation		Dual disc brake Right hand operation Single disc brake Right foot operation
Suspension: Front Suspension Rear Suspension		Telescopic fork Swingarm
Shock Absorber: Front Shock Absorber Rear Shock Absorber		Coil-Air spring/Oil damper Coil-Gas spring/Oil damper

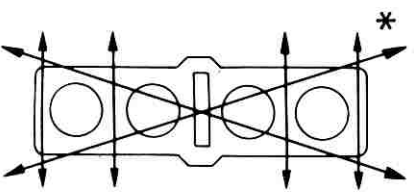


SPECIFICATIONS

Item	Model	FZX750
Wheel Travel: Front Wheel Travel Rear Wheel Travel		140 mm (5.5 in) 97 mm (3.8 in)
Electrical: Ignition System Generator System Battery Type or Model Battery Capacity		TCI AC generator YB14L-A2 12V 14AH
Headlight Type:		Bulb type (Quartz bulb)
Bulb Wattage x Quantity: Headlight Tail/Brake Light Flasher Light Auxiliary Light Meter Light Licence Light		12V, 60W/55W x 1 12V, 5W/21W x 2 12V, 21W x 4 12V, 4W x 1, 12V 3.4W x 1 (E) 12V, 3W x 5 12V, 5W x 2
Indicator Light: Wattage x Quantity: "NEUTRAL" "HIGH BEAM" "TURN" "OIL" "FUEL"		12V, 3W x 1 12V, 3W x 1 12V, 3W x 1 12V, 3W x 1 12V, 3W x 1

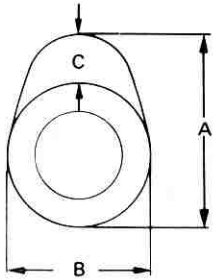
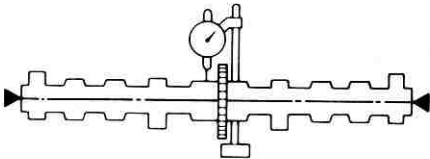
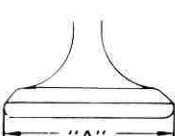
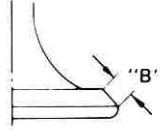
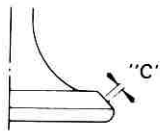
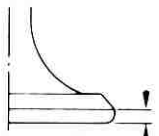
MAINTENANCE SPECIFICATIONS

Engine

Item	Model	FZX750
Cylinder Head: Warp Limit *		0.03 mm (0.0012 in) *Lines indicate straightedge measurement
		
Cylinder: Bore Size Taper Limit Out of Round Limit		68,000 ~ 68,005 mm (2.6772 ~ 2.6774 in) 0.05 mm (0.002 in) 0.01 mm (0.004 in)

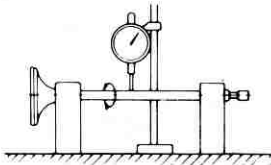
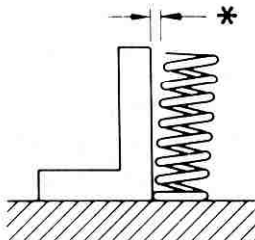

SPECIFICATIONS



Item	Model FZX750
<p>Camshaft:</p> <p>Drive Method</p> <p>Cam Cap Inside Dia.</p> <p>I-2, I-3, E-2, E-3.</p> <p>I-1, I-4, E-1, E-4:</p> <p>Camshaft Outside Dia.</p> <p>Shaft-to-Cap Clearance</p> <p>I-2, I-3, E-2, E-3:</p> <p>I-1, I-4, E-1, E-4:</p> <p>Cam Dimensions</p> <p>Intake "A"</p> <p>< Limit ></p> <p>Intake "B"</p> <p>< Limit ></p> <p>Intake "C"</p> <p>Exhaust "A"</p> <p>< Limit ></p> <p>Exhaust "B"</p> <p>< Limit ></p> <p>Exhaust "C"</p> <p>Camshaft Runout Limit</p>  	<p>Chain drive (Center)</p> <p>24.500 ~ 24.521 mm (0.9646 ~ 0.9654 in)</p> <p>24.470 ~ 24.491 mm (0.9634 ~ 0.9642 in)</p> <p>24.437 ~ 24.450 mm (0.9621 ~ 0.9626 in)</p> <p>0.050 ~ 0.084 mm (0.00197 ~ 0.00331 in)</p> <p>0.020 ~ 0.054 mm (0.00079 ~ 0.00213 in)</p> <p>31.95 ~ 32.05 mm (1.2579 ~ 1.2618 in)</p> <p>31.85 mm (1.254 in)</p> <p>24.95 ~ 25.05 mm (0.9823 ~ 0.9862 in)</p> <p>24.85 mm (0.9783 in)</p> <p>6.9 ~ 7.1 mm (0.2717 ~ 0.2795 in)</p> <p>32.4 ~ 32.5 mm (1.2756 ~ 1.2795 in)</p> <p>32.3 mm (1.27 in)</p> <p>24.95 ~ 25.05 mm (0.9823 ~ 0.9862 in)</p> <p>24.85 mm (0.978 in)</p> <p>7.35 ~ 7.55 mm (0.287 ~ 0.297 in)</p> <p>0.03 mm (0.0012 in)</p>
<p>Cam Chain:</p> <p>Cam Chain Type/No. of Links</p> <p>Cam Chain Adjustment Method</p>	<p>DID219FTS (BUSH CHAIN)/110 Links</p> <p>Automatic</p>
<p>Valve, Valve Seat, Valve Guide:</p> <p>Valve Clearance (Cold):</p> <p>IN.</p> <p>EX.</p> <p>Valve Dimensions:</p>     <p>Head Dia.</p> <p>Face Width</p> <p>Seat Width</p> <p>Margin Thickness</p> <p>"A" Head Dia.</p> <p>IN.</p> <p>EX.</p> <p>"B" Face Width</p> <p>IN.</p> <p>EX.</p> <p>"C" Seat Width</p> <p>IN.</p> <p>EX.</p> <p>"D" Margin Thickness</p> <p>IN.</p> <p>EX.</p>	<p>0.11 ~ 0.20 mm (0.004 ~ 0.008 in)</p> <p>0.21 ~ 0.30 mm (0.008 ~ 0.012 in)</p> <p>20.9 ~ 21.1 mm (0.8228 ~ 0.8307 in)</p> <p>22.9 ~ 23.1 mm (0.9016 ~ 0.9094 in)</p> <p>1.98 ~ 2.55 mm (0.0779 ~ 0.1004 in)</p> <p>1.98 ~ 2.55 mm (0.0779 ~ 0.1004 in)</p> <p>0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)</p> <p>0.9 ~ 1.1 mm (0.0354 ~ 0.0433 in)</p> <p>0.6 ~ 0.8 mm (0.0236 ~ 0.0315 in)</p> <p>0.6 ~ 0.8 mm (0.0236 ~ 0.0315 in)</p>

APPX

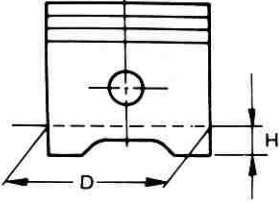
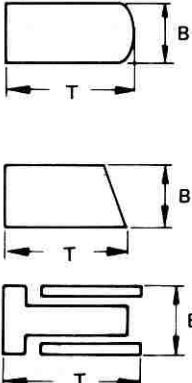
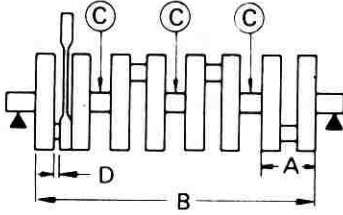
SPECIFICATIONS

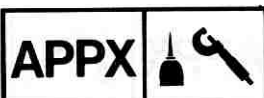
Item	Model FZX750
<p>Stem Outside Dia.:</p> <p>IN.</p> <p>EX.</p> <p>< Limit ></p> <p>IN.</p> <p>EX.</p> <p>Guide Inside Dia:</p> <p>IN.</p> <p>EX.</p> <p>< Limit ></p> <p>IN.</p> <p>EX.</p> <p>Stem-to-Guide Clearance:</p> <p>IN.</p> <p>EX.</p> <p>< Limit ></p> <p>IN.</p> <p>EX.</p> <p>Stem Runout Limit:</p> 	<p>4.975 ~ 4.990 mm (0.1959 ~ 0.1965 in)</p> <p>4.960 ~ 4.975 mm (0.1953 ~ 0.1959 in)</p> <p>4.945 mm (0.1947 in)</p> <p>4.930 mm (0.1941 in)</p> <p>5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)</p> <p>5.000 ~ 5.012 mm (0.1969 ~ 0.1973 in)</p> <p>5.05 mm (0.1988 in)</p> <p>5.05 mm (0.1988 in)</p> <p>0.010 ~ 0.037 mm (0.0004 ~ 0.0015 in)</p> <p>0.025 ~ 0.052 mm (0.0010 ~ 0.0020 in)</p> <p>0.08 mm (0.0031 in)</p> <p>0.10 mm (0.0039 in)</p> <p>0.01 mm (0.0004 in)</p>
<p>Valve Spring:</p> <p>Free Length:</p> <p>IN.</p> <p>EX.</p> <p>Set Length (Valve Closed):</p> <p>IN.</p> <p>EX.</p> <p>Set Force (Valve Closed):</p> <p>IN.</p> <p>EX.</p> <p>Tilt Limit *</p> <p>IN.</p> <p>EX.</p>  <p>Direction of Winding (Top View):</p> <p>IN.</p> <p>EX.</p>	<p>39.76 mm (1.565 in)</p> <p>39.96 mm (1.573 in)</p> <p>35.0 mm (1.378 in)</p> <p>35.0 mm (1.378 in)</p> <p>7.3 ~ 8.7 kg (16.1 ~ 19.2 lb)</p> <p>11.0 ~ 13.0 kg (24.3 ~ 28.7 lb)</p> <p>2.5°/1.7 mm (0.067 in)</p> <p>2.5°/1.7 mm (0.067 in)</p> <p>Clockwise</p> <p>Clockwise</p> 

SPECIFICATIONS

APPX



Item	Model
<p>Piston:</p> <p>Piston-to-Cylinder Clearance < Limit ></p> <p>Piston Size "D"</p> <p>Measuring Point "H"</p>  <p>OverSize 2nd OverSize 4th</p>	<p>FZX750</p> <p>0.06 ~ 0.08 mm (0.0024 ~ 0.0032 in) 0.10 mm (0.0039 in) 67.93 ~ 67.94 mm (2.674 ~ 2.675 in) 5.0 mm (0.197 in)</p> <p>68.50 mm (2.677 in) 69.00 mm (2.717 in)</p>
<p>Piston Ring:</p> <p>Top Ring:</p> <p>Type</p> <p>Dimensions (B x T)</p> <p>End Gap (Installed)</p> <p>Side Clearance (Installed)</p> <p>2nd Ring:</p> <p>Type</p> <p>Dimensions (B x T)</p> <p>End Gap (Installed)</p> <p>Side Clearance (Installed)</p> <p>Oil Ring:</p> <p>Dimensions (B x T)</p> <p>End Gap (Installed)</p> 	<p>Barrel</p> <p>1.0 x 2.6 mm (0.0394 x 0.1024 in) 0.30 ~ 0.45 mm (0.0118 ~ 0.0177 in) 0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in)</p> <p>Plain (Taper face)</p> <p>1.2 x 2.7 mm (0.0472 x 0.1063 in) 0.20 ~ 0.35 mm (0.0079 ~ 0.0138 in) 0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in)</p> <p>2.0 x 2.5 mm (0.0787 x 0.0984 in) 0.2 ~ 0.7 mm (0.0079 ~ 0.0276 in)</p>
<p>Connecting Rod:</p> <p>Oil Clearance</p> <p>Bearing Color Code</p>	<p>0.032 ~ 0.056 mm (0.00126 ~ 0.00220 in)</p> <p>1. Blue 2. Black 3. Brown 4. Green</p>
<p>Crankshaft:</p>  <p>Crank Width "A"</p> <p>Assembly Width "B"</p> <p>< Runout Limit > "C"</p> <p>Big End Side Clearance "D"</p> <p>Journal Oil Clearance</p> <p>Bearing Color Code</p>	<p>55.7 ~ 59.5 mm (2.1929 ~ 2.3425 in) 339.8 ~ 340.2 mm (13.378 ~ 13.394 in) 0.03 mm (0.0012 in) 0.160 ~ 0.262 mm (0.0063 ~ 0.0103 in) 0.040 ~ 0.064 mm (0.0016 ~ 0.0025 in) 1. Blue 2. Black 3. Brown 4. Green 5. Yellow</p>





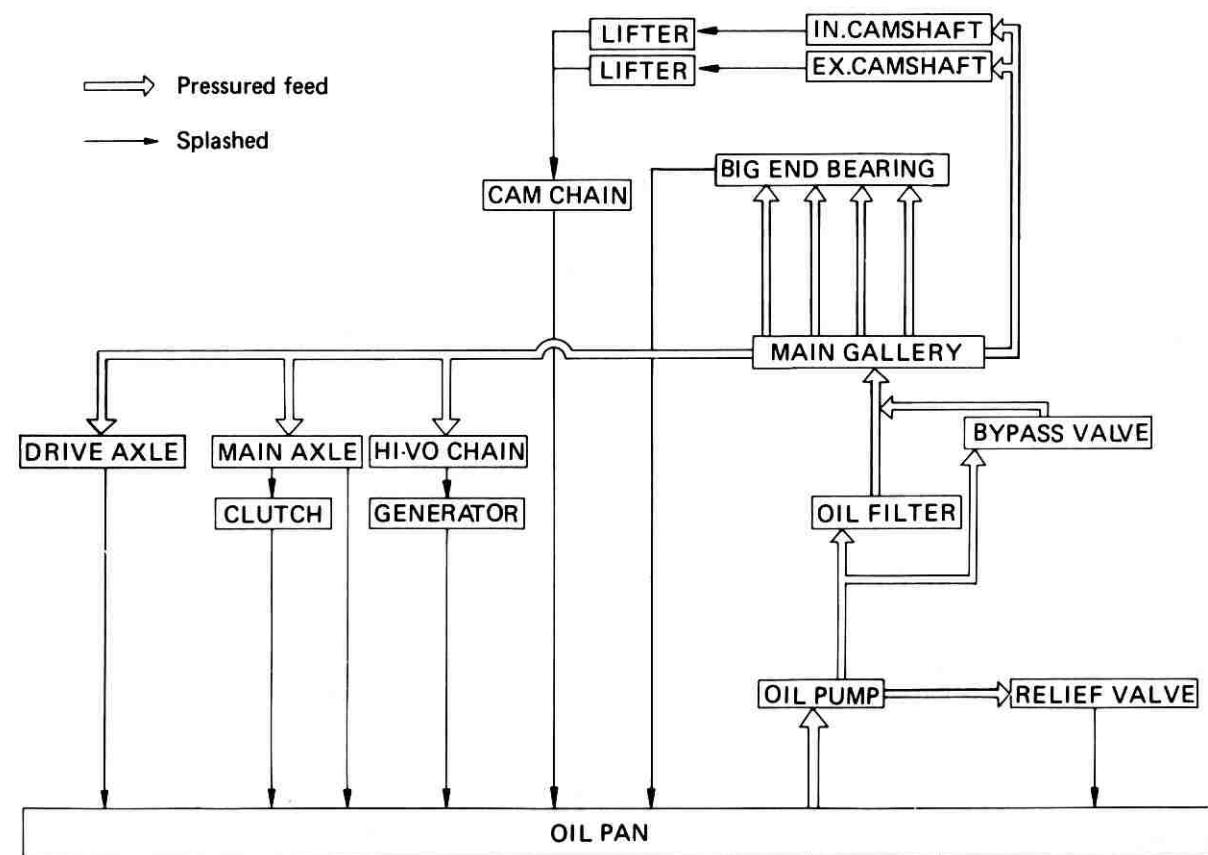
SPECIFICATIONS

Item	Model FZX750
Clutch: Friction Plate Thickness Quantity <Wear Limit > Clutch Plate Thickness Quantity <Warp Limit > Clutch Spring Free Length Quantity Minimum Length Push Rod Bending Limit Clutch Release Method	2.9 ~ 3.1 mm (0.1142 ~ 0.1220 in) 8 pcs. 2.8 mm (0.11 in) 1.9 ~ 2.1 mm (0.0748 ~ 0.0827 in) 7 pcs. 0.1 mm (0.0039 in) 55.5 mm (2.185 in) 6 pcs. 54.0 mm (2.126 in) 0.3 mm (0.012 in) Hydraulic inner push
Transmission: Main Axle Deflection Limit Drive Axle Deflection Limit	0.08 mm (0.0031 in) 0.08 mm (0.0031 in)
Shifter: Shifter Type Guide Bar Bending Limit	Guide Bar 0.1 mm (0.004 in)
Carburetor: ID Mark Main Jet (M.J.) Main Air Jet (M.A.J.) Jet Needle (J.N.) Needle Jet (N.J.) Pilot Air Jet (P.A.J.) Pilot Jet (P.J.) Pilot Screw (P.S.) Valve Seat Size (V.S.) Starter Jet (G.S.1.) (G.S.2.) Fuel Level (F.L.) Engine Idling Speed Vacuum Pressure at Idling Speed Vacuum Synchronous Difference	2AK00 #92.5 #65 5CEZ01-4 Y-2 #125 #15 2-1/2 (turns out) φ1.2 #30 φ0.4 7.8 ~ 8.8 mm (0.30 ~ 0.35 in) 950 ~ 1,050 r/min Above 240 mmHg (9.45 inHg) Below 10 mmHg (0.394 inHg)
Fuel Pump: Type Consumption Amperage (Max.) Out-put Pressure	Electrical type 1.2A 16.0 kPa (0.16 kg/cm ² , 2.28 psi)
Lubrication System: Oil Filter Type Oil Pump Type: Tip clearance Side Clearance Bypass Valve Setting Pressure Relief Valve Operating Pressure	Paper type Trochoid type 0.09 ~ 0.15 mm (0.00354 ~ 0.00591 in) 0.03 ~ 0.08 mm (0.0012 ~ 0.0031 in) 176.5 ~ 215.8 kPa (1.8 ~ 2.2 kg/cm ² , 25.6 ~ 31.3 psi) 382.5 ~ 460.9 kPa (3.9 ~ 4.7 kg/cm ² , 55.5 ~ 66.8 psi)

SPECIFICATIONS

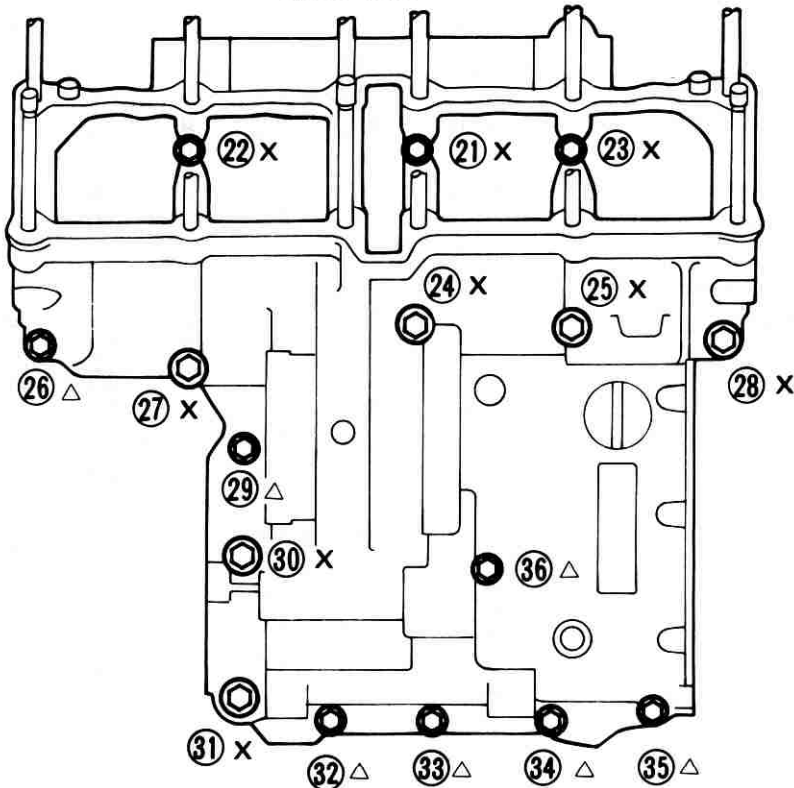
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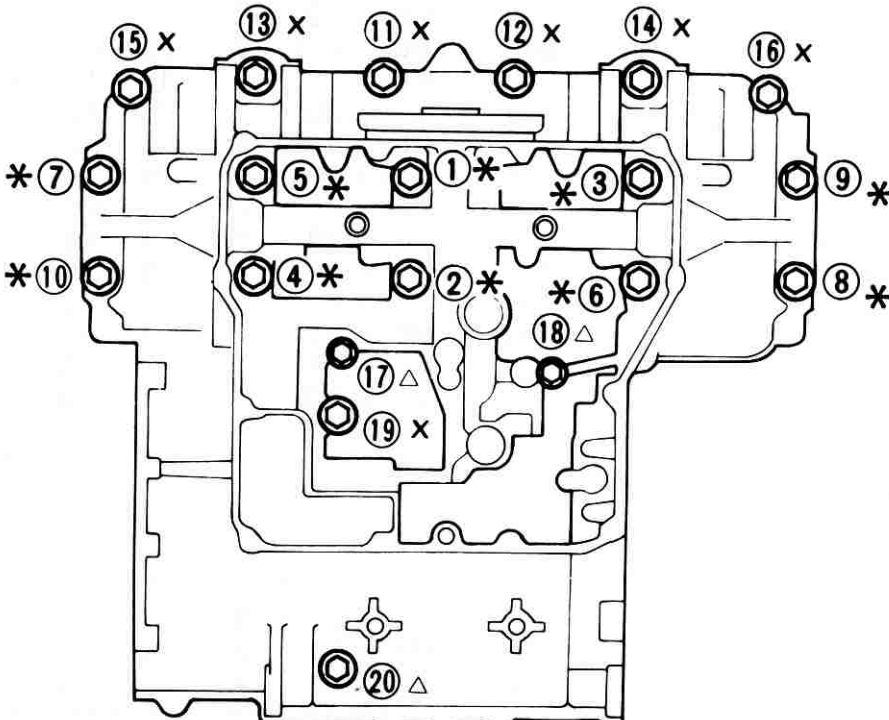
Item	Model	FZX750
Cooling System:		
Radiator Core Size:		
Width		300 mm (11.81 in)
Height		185 mm (7.28 in)
Thickness		32 mm (1.26 in)
Radiator Cap Opening Pressure		74 ~ 103 kPa (0.75 ~ 1.05 kg/cm ² , 10.7 ~ 14.9 psi)
Reservoir Tank Capacity		0.64 L (0.56 Imp qt, 0.68 US qt)
<From Low to Full Level >		0.25 L (0.22 Imp qt, 0.26 US qt)
Water Pump:		
Type		Single-suction centrifugal pump
Reduction Ratio		91/48 x 41/43 (1.808)
Lubrication Chart:		
<p>  Pressured feed  Splashed </p>		 <pre> graph TD OP[OIL PAN] --> LIFTER1[LIFTER] OP --> LIFTER2[LIFTER] OP --> CC[CAM CHAIN] OP --> BE[BIG END BEARING] OP --> MA[MAIN GALLERY] OP --> DA[DRIVE AXLE] OP --> CL[CLUTCH] OP --> HI[HI-VO CHAIN] OP --> GEN[GENERATOR] OP --> RP[RELIEF VALVE] LIFTER1 --> IN[IN.CAMSHAFT] LIFTER2 --> EX[EX.CAMSHAFT] CC --> BE CC --> MA BE --> MA MA --> DA MA --> CL MA --> HI MA --> GEN MA --> OF[OIL FILTER] OF --> BP[BYPASS VALVE] BP --> MA OF --> OP OP --> OP_P[OIL PUMP] OP_P --> OF OP_P --> RV[RELIEF VALVE] RV --> OP </pre>

Item	Model
Crankcase Tightening Sequence	FZX750

Upper Case



Lower Case



*: 9 mm Bolt: 32 Nm (3.2 m·kg, 23 ft·lb)
x: 8 mm Bolt: 24 Nm (2.4 m·kg, 17 ft·lb)
Δ: 6 mm Bolt: 12 Nm (1.2 m·kg, 8.7 ft·lb)

SPECIFICATIONS



TIGHTENING TORQUE

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Camshaft cap	Bolt	M6 x 1.0	40	10	1.0	7.2	
Cylinder head (Exhaust pipe)	Stud bolt	M6 x 1.0	8	5	0.5	3.6	
Cylinder head	Nut	M9 x 1.25	12	37	3.7	27	
Spark plug	—	M12 x 1.5	4	17.5	1.75	12.5	
Cylinder head cover	Bolt	M6 x 1.0	8	10	1.0	7.2	
Connecting rod cap	Nut	M8 x 0.75	8	36	3.6	25	
Cam chain sprocket	Bolt	M7 x 1.0	4	24	2.4	17	
Cam chain tensioner	Bolt	M6 x 1.0	2	10	1.0	7.2	
Cam chain tensioner end	Bolt	M11 x 1.0	1	20	2.0	14	
Chain guide (Intake side)	Bolt	M6 x 1.0	2	10	1.0	7.2	
Oil pump housing	Bolt	M6 x 1.0	3	10	1.0	7.2	
Oil pump mount	Bolt	M6 x 1.0	2	10	1.0	7.2	
Oil filter case	—	M20 x 1.5	1	15	1.5	11	
Oil pan	Bolt	M6 x 1.0	12	10	1.0	7.2	
Drain plug	—	M14 x 1.5	1	43	4.3	31	
Oil pipe 1	Union bolt	M10 x 1.25	3	21	2.1	15	
Oil baffle plate	Bolt	M6 x 1.0	10	10	1.0	7.2	
Oil level switch	Bolt	M6 x 1.0	2	10	1.0	7.2	
Exhaust pipe flange	Nut	M6 x 1.0	8	10	1.0	7.2	
Muffler clamp bolt	Bolt	M8 x 1.25	5	20	2.0	14	
Exhaust pipe blind plug (CO test)	Bolt	M6 x 1.0	4	10	1.0	7.2	
Crankcase (Cylinder head)	Stud bolt	M9 x 1.25	12	10	1.0	7.2	
Main axle bearing stopper	Torx	M6 x 1.0	3	10	1.0	7.2	
Crankshaft end cover	Bolt	M6 x 1.0	6	10	1.0	7.2	
Crankcase cover (Clutch)	Bolt	M6 x 1.0	11	10	1.0	7.2	
Crankcase	Bolt	M6 x 1.0	10	12	1.2	8.7	
Crankcase	Bolt	M8 x 1.25	16	24	2.4	17	
Crankcase	Bolt	M9 x 1.25	10	32	3.2	23	
Starter clutch	Bolt	M8 x 1.25	3	25	2.5	18	
Starter chain guide	Bolt	M6 x 1.0	2	10	1.0	7.2	
Clutch boss	Nut	M20 x 1.0	1	70	7.0	50	
Clutch spring	Bolt	M6 x 1.0	6	8	0.8	5.8	
Drive chain sprocket	Nut	M18 x 1.0	1	70	7.0	50	
Shift cam stopper lever	Bolt	M6 x 1.0	2	10	1.0	7.2	
Shift cam (Neutral)	Screw	M5 x 0.8	1	4	0.4	2.9	
Other engine part	Bolt	M8 x 1.25	—	20	2.0	14	
	Bolt	M6 x 1.0	—	10	1.0	7.2	
	Screw	M6 x 1.0	—	7	0.7	5	
Change pedal	Bolt	M6 x 1.0	1	10	1.0	7.2	
Pick up coil cover	Bolt	M6 x 1.0	2	10	1.0	7.2	
Air cleaner joint	Screw	M5 x 0.8	4	4	0.4	2.9	
Plug (Cylinder head)	—	M18 x 1.5	4	55	5.5	40	
Shift cam (Stopper)	Bolt	M6 x 1.0	1	10	1.0	7.2	
Change lever stopper	Bolt	M8 x 1.25	1	22	2.2	16	
Radiator cover	Screw	M5 x 0.8	2	4	0.4	2.9	
Radiator cap stopper	Screw	M4 x 0.7	1	2	0.2	1.4	
Air cleaner case	Screw	M5 x 0.8	7	4	0.4	2.9	
Carburetor cover	Screw	M5 x 0.8	4	4	0.4	2.9	



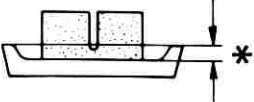
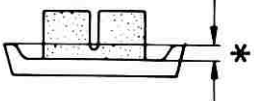
SPECIFICATIONS

Chassis

Item	Model
	FZX750
Steering System: Steering Bearing Type	Taper roller bearing
Front Suspension: Front Fork Travel Front Spring Free Length < Limit > Spring Rate K1 K2 Stroke K1 K2 Optional Spring Oil Capacity Oil Grade Enclosed Air Pressure (Standard) (Minimum) (Maximum)	140 mm (5.51 in) 575.6 mm (22.66 in) 570.6 mm (22.46 in) 3.72 N/mm (0.38 kg/mm, 21.28 lb/in) 7.21 N/mm (0.736 kg/mm, 41.2 lb/in) 0 ~ 90 mm (0 ~ 3.54 in) 90 ~ 140 mm (3.54 ~ 5.51 in) No 294 cm ³ (10.3 Imp oz, 9.94 US oz) Fork oil 10wt or equivalent 40 kPa (0.4 kg/cm ² , 5.7 psi) 40 kPa (0.4 kg/cm ² , 5.7 psi) 120 kPa (1.2 kg/cm ² , 17 psi)
Rear Suspension: Shock Absorber Travel Spring Free-Length < Limit > Fitting Length Spring Rate Stroke Optional Spring	75 mm (2.95 in) 167 mm (6.57 in) 165 mm (6.50 in) 147.5 mm (5.8 in) 23.5 N/mm (2.4 kg/mm, 134 lb/in) 0 ~ 75 mm (0 ~ 2.95 in) No
Rear Arm: Swingarm Free Play Limit: End Swingarm Free Play Limit: Side	1 mm (0.04 in) 0.8 mm (0.03 in)
Front Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Cast wheel MT2.50 x 16 Aluminum 2.0 mm (0.079 in) 2.0 mm (0.079 in)
Rear Wheel: Type Rim Size Rim Material Rim Runout Limit Radial Lateral	Cast wheel MT3.00 x 15 Aluminum 2.0 mm (0.079 in) 2.0 mm (0.079 in)
Drive chain: Type/Manufacturer No. of Links Chain Slack	50VA/DID 108 Links 15 ~ 20 mm (0.6 ~ 0.8 in)

SPECIFICATIONS



Item	Model
<p>Front Disc Brake: Type Disc Outside Dia. x Thickness Pad Thickness Inner <Limit> * Pad Thickness Outer <Limit> *</p> 	<p>FZX750</p> <p>Dual 267x 5.0 mm (10.5 x 0.197 in)</p> <p>5.5 mm (0.217 in) 0.5 mm (0.0197 in)</p> <p>5.5 mm (0.217 in) 0.5 mm (0.0197 in)</p> <p>Master Cylinder Inside Dia. Caliper Cylinder Inside Dia. Brake Fluid Type</p> <p>15.87 mm (0.63 in) 42.85 mm (1.69 in) DOT #3</p>
<p>Rear Disc Brake: Type Disc Outside Dia. x Thickness Pad Thickness <Limit> * Pad Thickness Outer <Limit> *</p> 	<p>Single 267 x 8.5 mm (10.5 x 0.3 in)</p> <p>5.5 mm (0.217 in) 0.5 mm (0.0197 in)</p> <p>5.5 mm (0.217 in) 0.5 mm (0.0197 in)</p> <p>Master Cylinder Inside Dia. Caliper Cylinder Inside Dia. Brake Fluid Type</p> <p>14.0 mm (0.55 in) 42.8 mm (1.69 in) DOT #3</p>
<p>Brake Lever and Brake Pedal: Brake Lever Free Play Brake Pedal Position</p>	<p>5 ~ 8 mm (0.20 ~ 0.31 in) 20 mm (0.8 in) (Below the top of the footrest)</p>
<p>Clutch: Master Cylinder Inside Dia. Release Cylinder Inside Dia. Clutch Fluid Type</p>	<p>15.87 mm (0.625 in) 38.1 mm (1.5 in) DOT #3</p>



SPECIFICATIONS

TIGHTENING TORQUE

Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m•kg	ft•lb	
Front axle	Bolt	M14 x 1.5	1	58	5.8	42	Use new lock washer
Front axle pinch bolt	Bolt	M8 x 1.25	1	20	2.0	14	
Rear axle	Bolt/Nut	M16 x 1.5	1	107	10.7	77.4	
Steering crown-Fork	Bolt	M8 x 1.25	2	20	2.0	14	
Steering stem	Nut	M22 x 1.0	1	110	11	80	
Underbracket-Fork	Bolt/Nut	M8 x 1.25	4	23	2.3	17	
Caliper (Front & Rear)	Bolt	M10 x 1.25	6	35	3.5	25	
Air bleed (Caliper)	Screw	M8 x 1.25	6	6	0.6	4.3	
Brake hose (All)	Union bolt	M10 x 1.25	8	26	2.6	19	
Master cylinder bracket	Bolt	M6 x 1.0	4	9	0.9	6.5	
Master cylinder cap	Screw	M5 x 0.8	8	2	0.2	1.4	
Drive chain sprocket (Driven)	Nut	M10 x 1.25	6	55	5.5	40	
Brake disc	Bolt	M8 x 1.25	6	20	2.0	14	
Front fender-Fork	Bolt	M6 x 1.0	6	9	0.9	6.5	
Handlebar-Upper handlebar holder	Bolt	M8 x 1.25	2	20	2.0	14	
Rear down tube bolt	Bolt	M8 x 1.25	1	28	2.8	20	See NOTE
Front engine mounting	Bolt/Nut	M10 x 1.25	2	55	5.5	40	
Middle down tube bolts	Bolt/Nut	M8 x 1.25	4	24	2.4	17	
Rear upper engine mounting	Bolt/Nut	M10 x 1.25	1	55	5.5	40	
Rear lower engine mounting	Bolt/Nut	M10 x 1.25	1	55	5.5	40	
Front down tube bolt	Bolt	M8 x 1.25	2	28	2.8	20	
Pivot shaft	Bolt/Nut	M14 x 1.5	1	90	9.0	65	
Down tube cross pipe	Nut	M8 x 1.25	2	20	2.0	14	
Grab bar-Frame	Bolt	M10 x 1.25	2	25	2.5	18	
Shock absorber (Upper)	Bolt	M8 x 1.25	1	20	2.0	14	
Footrest-Frame	Bolt	M8 x 1.25	2	28	2.8	20	
Headlight stay (Lower)	Bolt	M8 x 1.25	1	13	1.3	9.4	
Muffler bracket-Frame (Front)	Bolt	M8 x 1.25	2	23	2.3	17	
Rear brake master cylinder	Bolt	M8 x 1.25	2	20	2.0	14	
Fuel sender-Fuel tank	Bolt	M6 x 1.0	4	5	0.5	3.6	
Muffler bracket-Frame (Rear)	Bolt	M10 x 1.25	1	25	2.5	18	
Muffler-Muffler bracket	Bolt	M8 x 1.25	2	25	2.5	18	
Shock absorber (Lower)	Nut	M10 x 1.25	2	30	3.0	22	
Brake pedal	Bolt	M6 x 1.0	1	9	0.9	6.5	
Steering lower ring nut	Nut	M25 x 1.0	1				
Fuel tank (Rear)	Bolt	M6 x 1.0	1	7	0.7	5.1	
Steering crown-Headlight stay	Bolt	M8 x 1.25	2	20	2.0	14	
Steering crown-Handlebar holder lower	Nut	M10 x 1.25	2	30	3.0	22	
Fuel tank top cover-Frame	Bolt	M6 x 1.0	2	9	0.9	6.5	
Fuel tank cap-Fuel tank	Screw	M5 x 0.8	1	4	0.4	2.9	
Compression bar	Bolt	M8 x 1.25	2	28	2.8	20	

NOTE:

- 1st; Tighten to 52 Nm (5.2 m•kg, 37 ft•lb)
- 2nd; Loosen it completely
- 3rd; Tighten to 3 Nm (0.3 m•kg, 22 ft•lb)

SPECIFICATIONS

APPX



Electrical

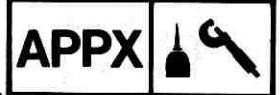
Item	Model	FZX750																						
Voltage: Ignition System: Ignition Timing (B.T.D.C.) Advanced Timing (B.T.D.C.) Advancer Type	12V 10° at 1,000 r/min 41.5° at 6,000 r/min Electrical																							
<table><caption>Ignition Timing Data</caption><thead><tr><th>Engine Speed (x 10³ r/min)</th><th>Ignition Timing (B.T.D.C.)</th></tr></thead><tbody><tr><td>1</td><td>10</td></tr><tr><td>2</td><td>25</td></tr><tr><td>3</td><td>30</td></tr><tr><td>4</td><td>35</td></tr><tr><td>5</td><td>40</td></tr><tr><td>6</td><td>41.5</td></tr><tr><td>7</td><td>40</td></tr><tr><td>8</td><td>39</td></tr><tr><td>9</td><td>38</td></tr><tr><td>10</td><td>36</td></tr></tbody></table>			Engine Speed (x 10 ³ r/min)	Ignition Timing (B.T.D.C.)	1	10	2	25	3	30	4	35	5	40	6	41.5	7	40	8	39	9	38	10	36
Engine Speed (x 10 ³ r/min)	Ignition Timing (B.T.D.C.)																							
1	10																							
2	25																							
3	30																							
4	35																							
5	40																							
6	41.5																							
7	40																							
8	39																							
9	38																							
10	36																							
TCI: Pickup Coil Resistance (Color) TCI Unit-Model/Manufacturer	135 ~ 165Ω at 20°C (68°F) (Orange – Black), (Orange – Gray) TID14-52/HITACHI																							
Ignition Coil: Model/Manufacturer Primary Winding Resistance Secondary Winding Resistance	CM12-29/HITACHI 2.4 ~ 3.0Ω at 20°C (68°F) 7.5 ~ 11.5 kΩ at 20°C (68°F)																							
Spark Plug Cap: Type Resistance	Resin 10kΩ																							
Charging System/Type:	AC generator																							
AC Generator: Model/Manufacturer Nominal Output	B3G/NIPPONDENSO 12V, 25A at 5,000 r/min																							
<table><caption>Output Current Data</caption><thead><tr><th>Engine speed (x 10³ r/min)</th><th>Output Current (A)</th></tr></thead><tbody><tr><td>1</td><td>0</td></tr><tr><td>2</td><td>20</td></tr><tr><td>3</td><td>25</td></tr><tr><td>4</td><td>26</td></tr><tr><td>5</td><td>27</td></tr><tr><td>6</td><td>27.5</td></tr><tr><td>7</td><td>28</td></tr><tr><td>8</td><td>28</td></tr><tr><td>9</td><td>28</td></tr></tbody></table>			Engine speed (x 10 ³ r/min)	Output Current (A)	1	0	2	20	3	25	4	26	5	27	6	27.5	7	28	8	28	9	28		
Engine speed (x 10 ³ r/min)	Output Current (A)																							
1	0																							
2	20																							
3	25																							
4	26																							
5	27																							
6	27.5																							
7	28																							
8	28																							
9	28																							



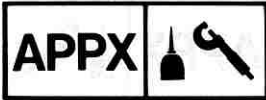
SPECIFICATIONS

Model	FZX750
Generator Assembly: Stator Coil Resistance Field (rotor) Coil Resistance Brush Overall Length < Limit > Spring Pressure	0.18 ~ 0.22Ω at 20°C (68°F) 3.8 ~ 4.2Ω at 20°C (68°F) 13.7 mm (0.54 in) 4.7 mm (0.19 in) 230 ~ 330 g (8.12 ~ 11.65 oz)
Voltage Regulator: Type No Load Regulated Voltage	Field Control Type 14.2 ~ 14.8V
Battery: Capacity Specific Gravity	12V, 14AH 1.280
Electrical Starter System: Type Starter Motor: Model/Manufacturer Output Brush-Overall Length < Limit > Spring Pressure Commutator Dia. < Wear Limit > Mica Undercut Starter Switch: Model/Manufacturer Amperage Rating Coil Winding Resistance	Constant mesh type SM-8/MITSUBA 0.6 kW 12.0 mm (0.47 in) 5.0 mm (0.20 in) 680 ~ 920 g (24.0 ~ 32.4 oz) 28 mm (1.1 in) 27 mm (1.06 in) 0.8 mm (0.03 in) A104-128/HITACHI 100A 3.9 ~ 4.7Ω at 20°C (68°F)
Horn: Type x Quantity Model/Manufacturer Maximum Amperage	Plain type x 1 CF3-12/NIKKO 2.5A
Relay Assembly: Type Model/Manufacturer Self Cancelling Device Flasher Frequency Wattage	Semi-transistor type FX257N/NIPPONDENSO Yes. 75 ~ 95 cycle/min 27W x 2 + 3.0W
Self Cancelling Unit: Model/Manufacturer	FX257N/NIPPONDENSO
Oil Level Switch: Model/Manufacturer	4H70/NIPPONDENSO
Fuel Pump Controller: Model/Manufacturer	G8D-04Y/OMRON
Thermostatic Switch: Model/Manufacturer	47X/NIPPON THERMOSTAT
Thermostatic Sensor: Model/Manufacturer	11H/NIPPON SEIKI

SPECIFICATIONS



Model	FZX750
Fuel Gauge: Model/Manufacturer Sender Unit Resistance – Full (Color)	1UF/NIPPON SEIKI 1,110 ~ 740Ω at 20°C (68°F) (Green – Black)
Circuit Breaker: Type Amperage for Individual Circuit x Quantity MAIN HEAD SIGNAL IGNITION FAN RESERVE	Fuse 30A x 1 15A x 1 10A x 1 10A x 1 10A x 1 30A x 1 15A x 1 10A x 1

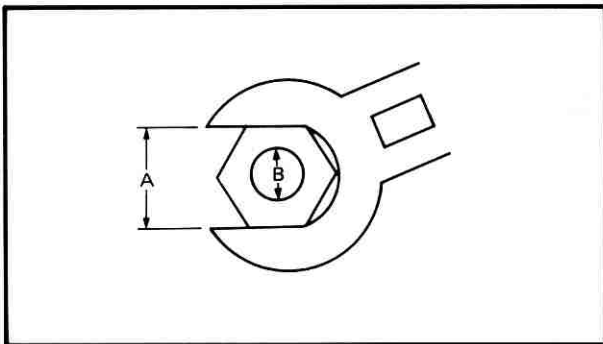


GENERAL TORQUE SPECIFICATIONS/ DEFINITION OF UNITS

GENERAL TORQUE SPECIFICATIONS

This chart specifies torque for standard fasteners with standard I.S.O. pitch threads. Torque specifications for special components or assemblies are included in the applicable sections of this book. To avoid warpage, tighten multifastener assemblies in a crisscross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

A (Nut)	B (Bolt)	General torque specifications		
		Nm	m•kg	ft•lb
10mm	6mm	6	0.6	4.3
12mm	8mm	15	1.5	11
14mm	10mm	30	3.0	22
17mm	12mm	55	5.5	40
19mm	14mm	85	8.5	61
22mm	16mm	130	13.0	94



A: Distance across flats
B: Outside thread diameter

DEFINITION OF UNITS

Unit	Read	Definition	Measure
mm	millimeter	10^{-3} meter	Length
cm	centimeter	10^{-2} meter	Length
kg	kilogram	10^3 gram	Weight
N	Newton	$1\text{kg} \times \text{m}/\text{sec}^2$	Force
Nm	Newton meter	$\text{N} \times \text{m}$	Torque
m•kg	Meter kilogram	$\text{m} \times \text{kg}$	Torque
Pa	Pascal	N/m^2	Pressure
N/mn	Newton per millimeter	N/mn	Spring rate
L	Liter	—	Volume or Capacity
cm^3	Cubic centimeter	—	
r/min	Rotation per minute	—	Engine Speed

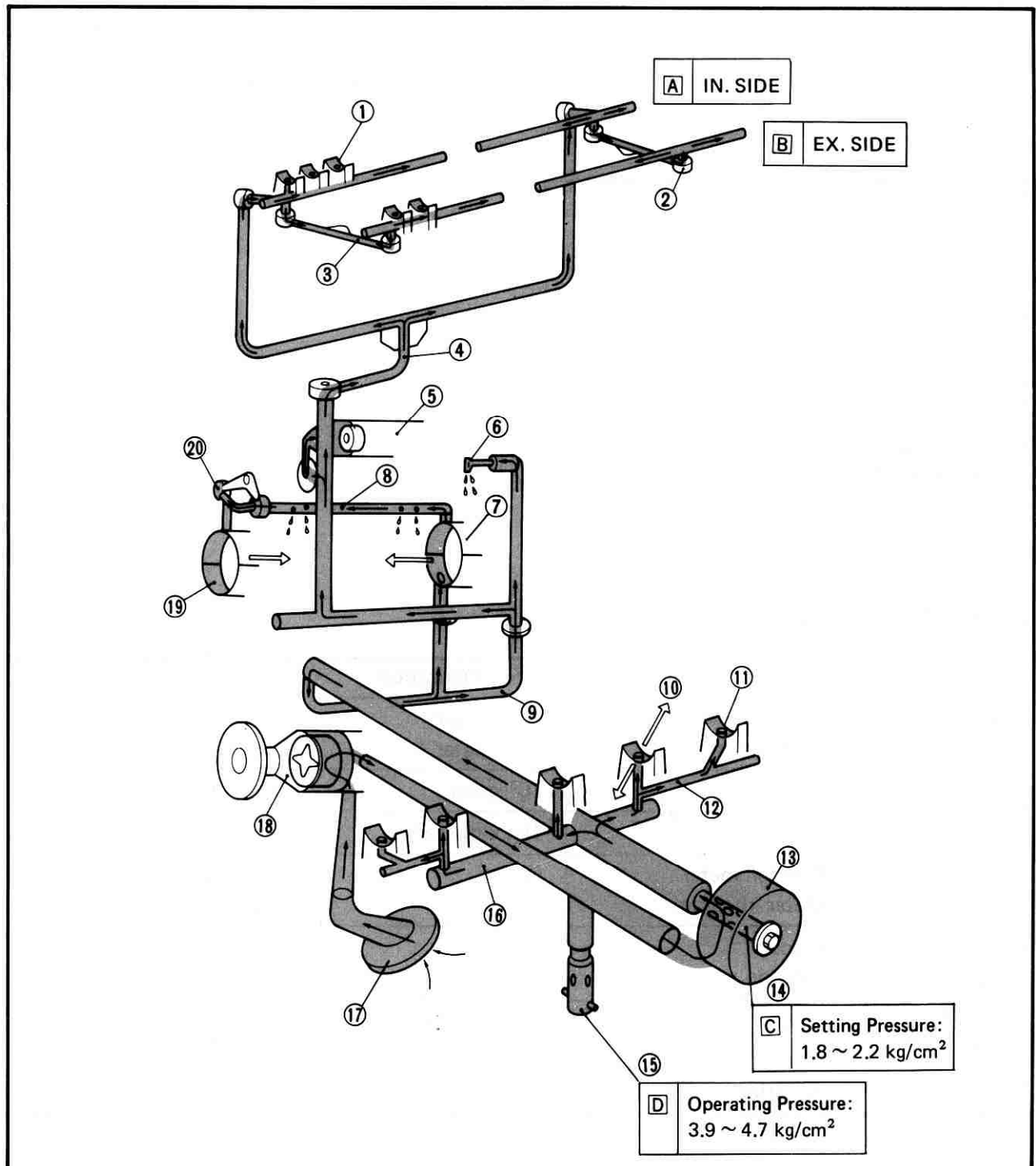
LUBRICATION DIAGRAM

APPX



LUBRICATION DIAGRAM

- | | |
|-------------------------------|------------------------------|
| ① Camshaft bearing and lifter | ⑪ Crankshaft journal bearing |
| ② Oil pipe (3) | ⑫ Sub gallery |
| ③ Oil pipe (4) | ⑬ Oil element |
| ④ Oil pipe (1) | ⑭ Bypass valve |
| ⑤ AC generator | ⑮ Relief valve |
| ⑥ Nozzle (HY-VO chain) | ⑯ Main gallery |
| ⑦ Main axle (L) | ⑰ Oil strainer |
| ⑧ Shift fork | ⑱ Oil pump |
| ⑨ Oil pipe (5) | ⑲ Drive axle (R) |
| ⑩ Big-end bearing | ⑳ Oil pipe (2) |



APPX

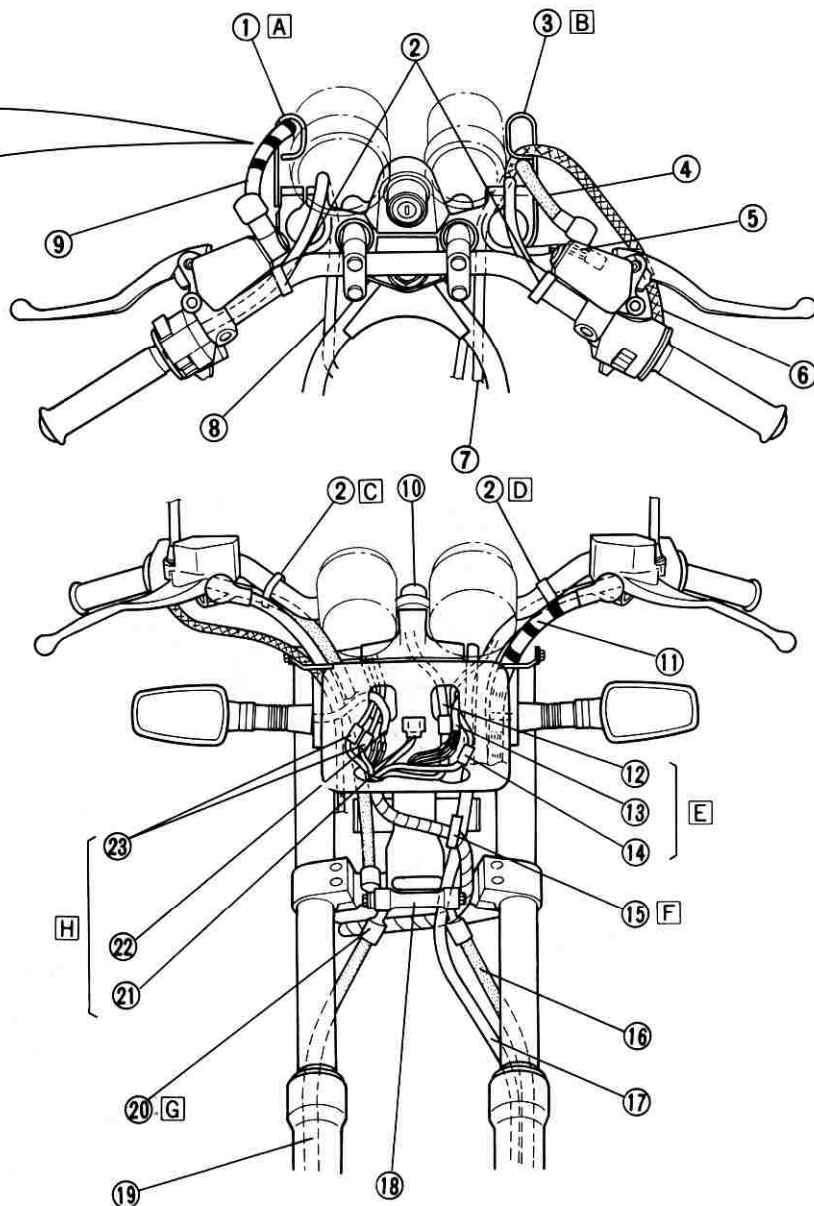
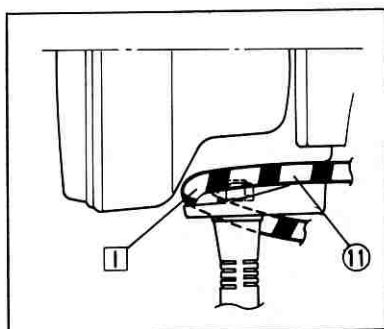


CABLE ROUTING

CABLE ROUTING

- | | |
|---------------------------------|------------------------------|
| ① Guide | ⑬ Flasher light lead (Left) |
| ② Band | ⑭ Speedometer light lead |
| ③ Cable guide | ⑮ Clamp |
| ④ Brake hose | ⑯ Front brake hose (Left) |
| ⑤ Front brake stop switch lead | ⑰ Speedometer cable |
| ⑥ Throttle cable | ⑱ Brake hose joint |
| ⑦ Handlebar switch lead (Right) | ⑲ Front brake hose (Right) |
| ⑧ Handlebar switch lead (Left) | ⑳ Wireharness |
| ⑨ Clutch hose | ㉑ Headlight lead |
| ⑩ Main switch | ㉒ Flasher light lead (Right) |
| ⑪ Clutch hose | ㉓ Tachometer lead |
| ⑫ Main switch | |

- | | |
|----------|---|
| A | Pass the clutch hose through the guide. |
| B | Pass the throttle cable through the guide. |
| C | Clamp the handlebar switch lead (Right). |
| D | Clamp the handlebar switch lead (Left). |
| E | Pass the leads through the upper left hole on the headlight body, and connect to wireharness inside of the headlight body. |
| F | Clamp the wireharness. |
| G | Pass the wireharness through the headlight lower hole. |
| H | Pass the leads through the upper right hole on the headlight body, and connect to wireharness inside of the headlight body. |
| I | Pass the clutch hose between the headlight body and headlight stay. |



CABLE ROUTING

APPX

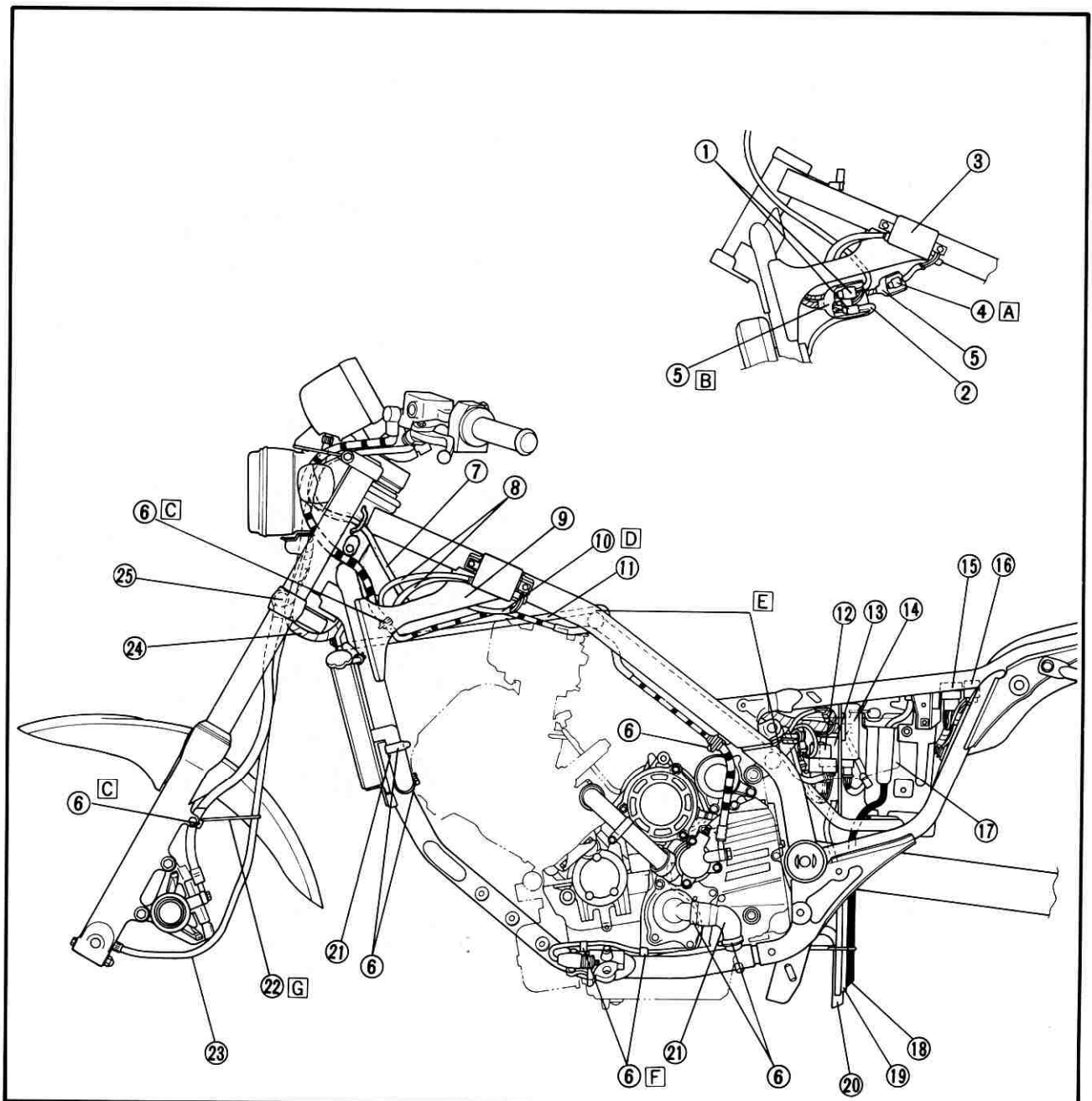


CABLE ROUTING

- ① Handlebar switch lead (Left)
- ② Radiator fan lead
- ③ Ignition coil
- ④ Ignition coil lead coupler
- ⑤ Boot
- ⑥ Clamp
- ⑦ Handlebar switch lead (Left)
- ⑧ High tension lead
- ⑨ Head pipe
- ⑩ Ignition coil lead
- ⑪ Radiator breather hose
- ⑫ Flasher relay
- ⑬ Sidestand relay

- ⑭ Ignitor
- ⑮ Fuse box
- ⑯ Main fuse
- ⑰ Coolant reserver tank
- ⑱ Battery breather hose
- ⑲ Coolant reserver tank
- ⑳ Overflow hose
- ㉑ Radiator hose
- ㉒ Guide
- ㉓ Speedometer cable
- ㉔ Wireharness
- ㉕ Brake joint

- A** Locate the coupler inside the boot.
- B** Locate the radiator fan lead coupler and handlebar switch lead coupler.
- C** Clamp the clutch hose.
- D** Pass the ignition coil lead between the clutch hose and head pipe.
- E** Pass the radiator breather hose upper the frame.
- F** Clamp the sidestand switch lead.
- G** Pass the speedometer cable through the guide.



APPX



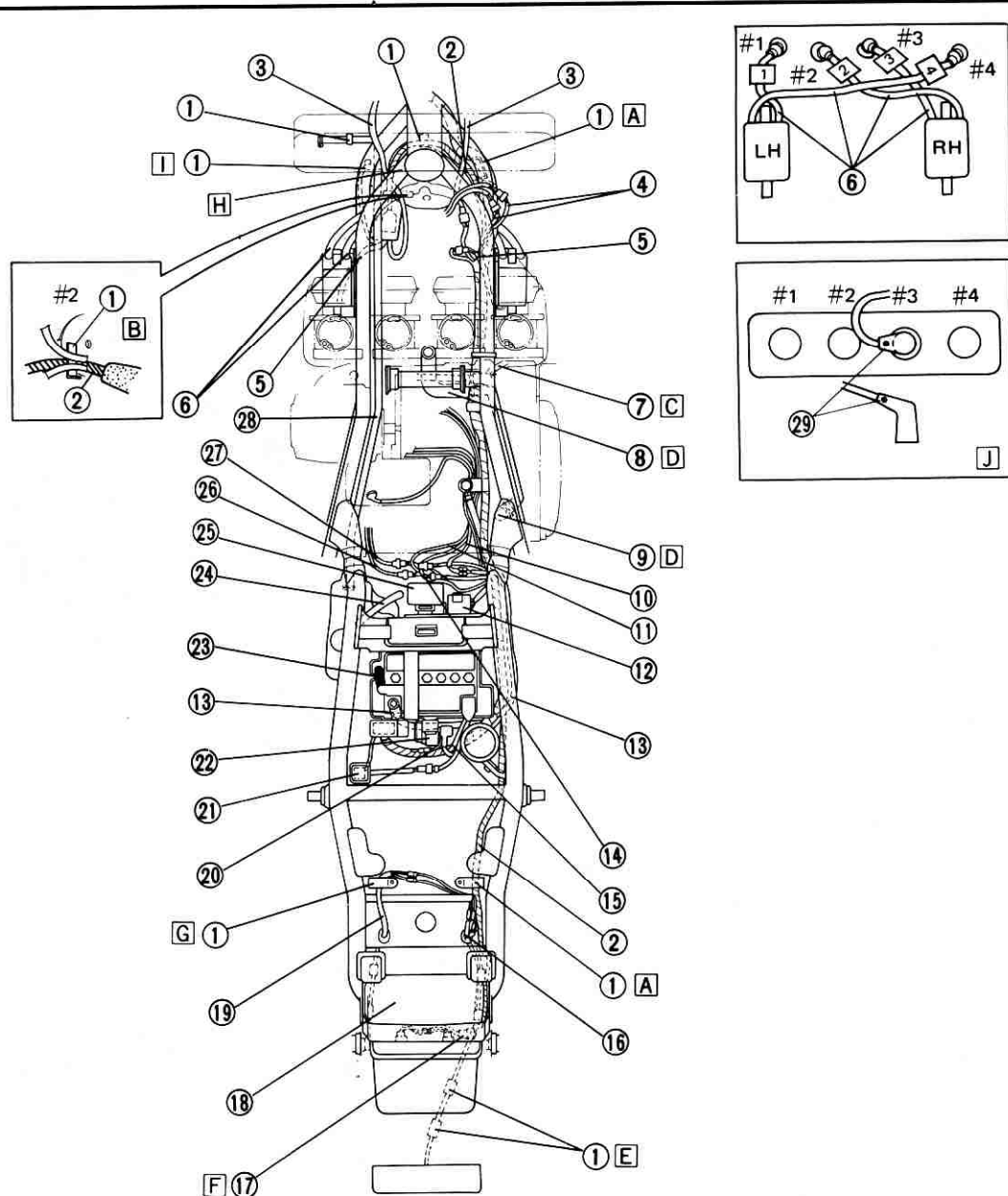
CABLE ROUTING

CABLE ROUTING

- ① Clamp
- ② Wireharness
- ③ Handlebar switch lead
- ④ Pilot light lead
- ⑤ Ignition coil lead
- ⑥ High tension lead
- ⑦ Carburetor breather hose
- ⑧ Air cleaner box breather hose
- ⑨ Crankcase breather hose
- ⑩ Pick up coil lead
- ⑪ Generator lead
- ⑫ Diode
- ⑬ Battery negative (-) lead
- ⑭ Sidestand switch lead
- ⑮ Battery positive (+) lead

- ⑯ Licence light lead
- ⑰ Taillight lead coupler
- ⑱ Tool box
- ⑲ Flasher light lead (Left)
- ⑳ Starter switch lead
- ㉑ Main fuse
- ㉒ Starter switch
- ㉓ Battery breather hose
- ㉔ Coolant reserver tank breather hose
- ㉕ Flasher relay
- ㉖ Fuel pump lead
- ㉗ Fuel sender lead
- ㉘ Radiator breather hose
- ㉙ Spark plug cap tail

- A** Clamp the wireharness.
- B** Pass the high tension lead #1, #2 inside the clamp.
- C** Connect to "joint pipe (lower)".
- D** Connect to "joint pipe (upper)".
- E** Clamp the licence light lead.
- F** Locate the coupler behind the tool box.
- G** Clamp the flasher light lead.
- H** The couplers upper the radiator fan: Take care not to pinch.
- I** Clamp the radiator fan lead.
- J** Pass #3 high tension lead behind the middle of the radiator fan motor. Direct spark plug cap tail toward #2 cylinder.



CABLE ROUTING

APPX



CABLE ROUTING

- ① Wireharness
- ② High tension lead
- ③ Clamp
- ④ Horn lead
- ⑤ Joint pipe
- ⑥ Fuel pump relay
- ⑦ Battery negative (—) lead
- ⑧ Earth lead
- ⑨ Flasher relay

- ⑩ Diode
- ⑪ Igniter
- ⑫ Starter motor lead
- ⑬ Brake switch lead
- ⑭ Band
- ⑮ Ignition coil lead
- ⑯ Earth lead
- ⑰ Pilot light assembly
- ⑱ Thermostat lead

- A Clamp the horn lead inside the flame.
- B Pass the horn lead through the horn bracket.
- C Clamp the rear brake hose.
- D Pass the rear brake hose inside the rear shock absorber.
- E Locate the hose joint between the projections on caliper.
- F Clamp the wireharness. Align the white tape on the wireharness.
- G To pick up coil.
- H Clamp the wireharness. Align the white tape on the wireharness.
- I Clamp the wireharness.
- J "A" View

