FORWARD

This Supplementary Service Manual has been prepared to introduce new service and new data for the FZ700T/TC. For complete information on service procedures, it is ncecessary to use this Supplementary Service Manual together with following manual:

FZ750N Service Manual: LIT-11616-04-66
FZ750S Service Manual: LIT-11616-05-01

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

FZ700T/FZ700TC
SUPPLEMENTARY
SERVICE MANUAL
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1st Edition, JANUARY 1987
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Printed in U.S.A.
LIT-11616-05-60

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 motorcycles have a basic understanding of the mechanical concepts and procedures inherent in motorcycle repair technology. Without sucn knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

This model has been disgned and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the motorcycle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his motorcycle and to conform with federal environmental quality objectives.

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.

NOTE:

This Service Manual contains information regarding periodic maintenance to the emission control system for the FZ700T/FZ700TC. Please read this material carefully.

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

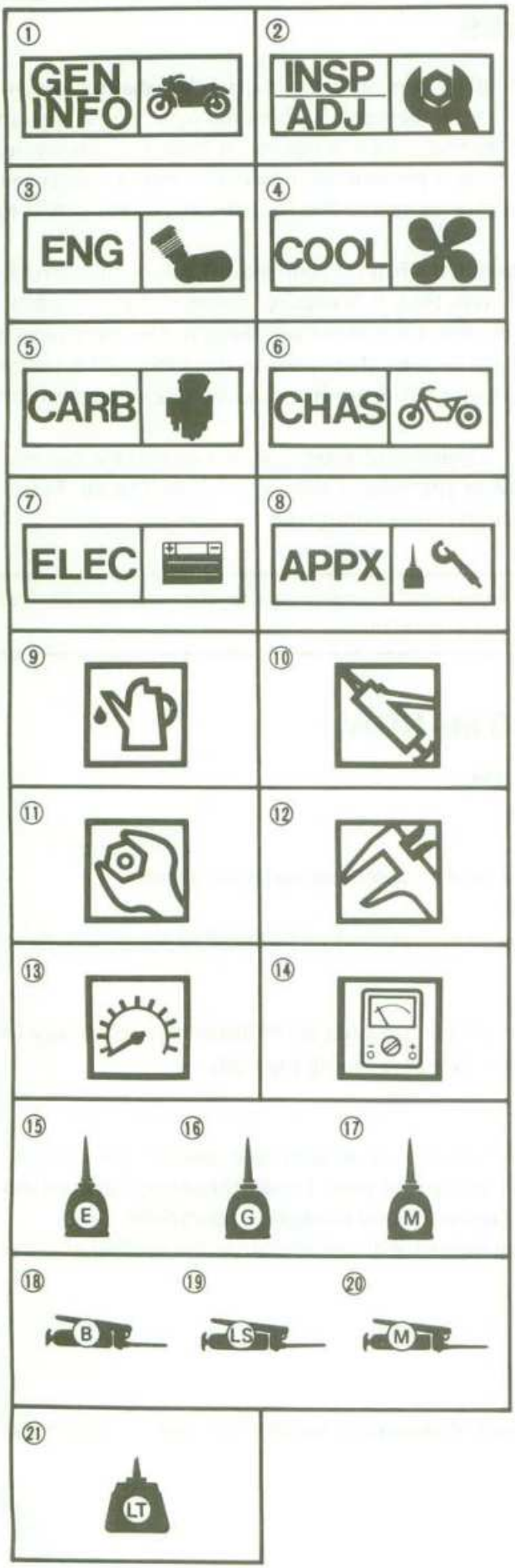
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

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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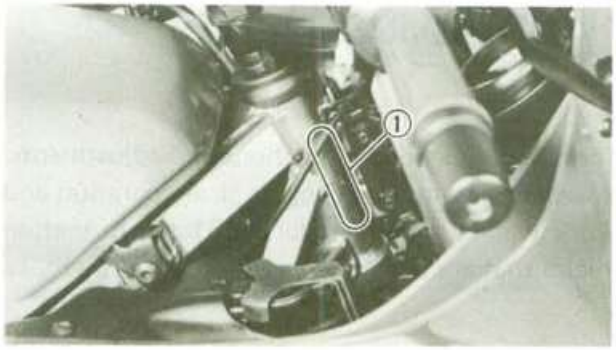
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GENERAL INFORMATION

MOTORCYCLE IDENTIFICATION

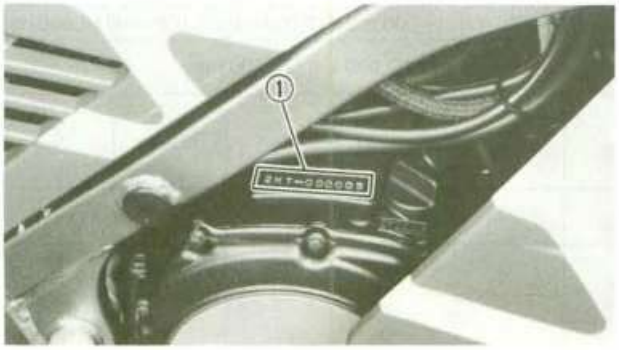
VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stamped into the right side of the frame.

NOTE:

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.

Starting Serial Number:
FZ700T: JYA2KT00 * HA000101
FZ700TC: JYA2KU00 * HA000101



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:
FZ700T: 2KT-000101
FZ700TC (For California): 2KU-000101

NOTE:

Designs and specifications are subject to change without notice.



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.

MAINTENANCE INTERVALS CHARTS

Proper periodic maintenance is important. Especially important are the maintenance services related to emission control. These controls not only function to ensure cleaner air but are also vital to proper engine operation and maximum performance. In the following maintenance tables, the services related to emissions control are grouped separately.

PERIODIC MAINTENANCE EMISSION CONTROL SYSTEM

No.	Item	Remakrs	Initial	Odometer reading				
			1,000 km or 1 month (600 mi)	**1 7,000 km or 7 months (4,400 mi)	**2 13,000 km or 13 months (8,200 mi)	19,000 km or 19 months (12,000 mi)	25,000 km or 25 months (15,800 mi)	**3 31,000 km or 31 months (19,600 mi)
1*	Valve clearance	Check and adjust valve clearance when engine is cold.	Every 42,000 km (26,600 mi)					
2	Spark plugs	Check condition. Adjust gap and clean. Replace at 13,000 km (or 13 months) and thereafter every 12,000 km (or 12 months).		○	Replace	○	Replace	○
3*	Crankcase ventilation system	Check ventilation hose for cracks or damage. Replace if necessary.		○	○	○	○	○
4*	Fuel line	Check fuel hose and vacuum pipe for cracks or damage. Replace if necessary.		○	○	○	○	○
5*	Fuel filter	Replace initial 31,000 km (19,600 mi) and thereafter every 30,000 km (19,000 mi).						Replace
6*	Exhaust system	Check for leakage. Retighten if necessary. Replace gasket(s) if necessary.		○	○	○	○	○
7*	Carburetor synchronization	Adjust synchronization of carburetors.	○	○	○	○	○	○
8*	Idle speed	Check and adjust engine idle speed. Adjust cable free play.		○	○	○	○	○

* It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

NOTE:

For farther odometer reading, repeat the above maintenance at the period established; **1: Every 6,000 km (3,800 mi), **2: Every 12,000 km (7,600 mi) and **3: Every 30,000 km (19,000 mi) intervals.

MAINTENANCE INTERVALS CHARTS

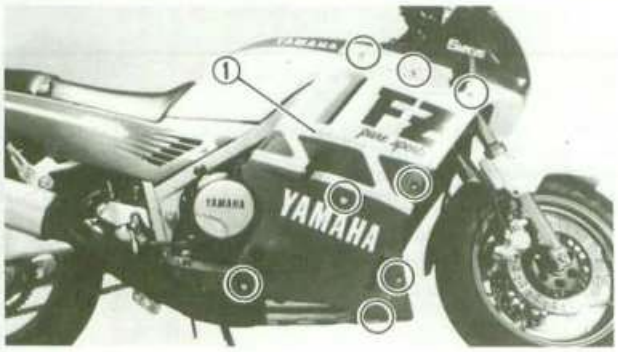
GENERAL MAINTEANANCE/LUBRICATION

No.	Item	Remarks	Type	Initial	Odometer readings				
				1,000 km or 1 month (600 mi)	**1 7,000 km or 7 months (4,400 mi)	**2 13,000 km or 13 months (8,200 mi)	19,000 km or 19 months (12,000 mi)	**3 25,000 km or 25 months (15,800 mi)	31,000 km or 31 months (19,600 mi)
1	Engine oil	Warm-up engine before draining.	SAE 20W40 or SAE 10W30	○	○	○	○	○	○
2	Oil filter	Replace.	–	○		○		○	
3*	Air filter	Clean with compressed air. Replace if necessary.	–		○	○	○	○	○
4*	Cooling system	Check hose for cracks or damage, replace if necessary. Replace coolant 24 months.	– Ethylene glycol anti-freeze coolant.		○	○	○	○ Replace	○
5*	Brake system	Adjust free play. Replace pads if necessary.	–	○	○	○	○	○	○
6	Drive chain	Check chain condition. Adjust and lubricate chain thoroughly.	SAE 30W-50W motor oil.	Every 500 km (300 mi)					
7*	Control and meter cable	Apply chain lube thoroughly.	Yamaha chain and cable lube or SAE 10W30 motor oil.	○	○	○	○	○	○
8*	Rear arm pivot shaft and suspension link pivots	Apply grease lightly.	Molybdenum disulfide grease.					○	
9	Brake/Clutch lever pivot shaft	Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
10	Brake pedal and change pedal shaft	Lubricate. Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
11*	Side stand pivots	Check operation and lubricate. Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		○	○	○	○	○
12*	Front fork oil	Check operation and leakage.	–		○	○	○	○	○
13*	Steering bearings	Check bearings assembly for looseness. Moderately repack every 24,000 km (15,200 mi).	Medium weight wheel bearing grease.		○	○	○	○	○
14*	Wheel bearings	Check bearings for smooth rotation.	–		○	○	○	○	○
15*	Battery	Check specific gravity and breather pipe for proper operation.	–		○	○	○	○	○
16*	A.C. Generator	Replace generator brushes every 100,000 km (62,000 mi).	–						
17*	Sidestand switch	Check and clean or replace if necessary.	–		○	○	○	○	○

* It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

NOTE:

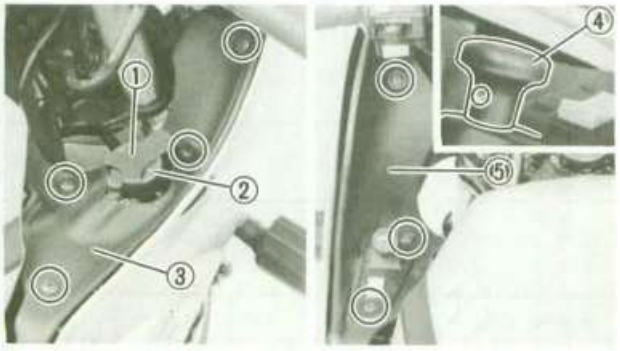
For farther odometer reading, repeat the above maintenance at the period established, **1: Every 6,000 km (3,800 mi), **2: Every 12,000 km (7,600 mi) and **3: Every 24,000 km (15,200 mi) intervals.



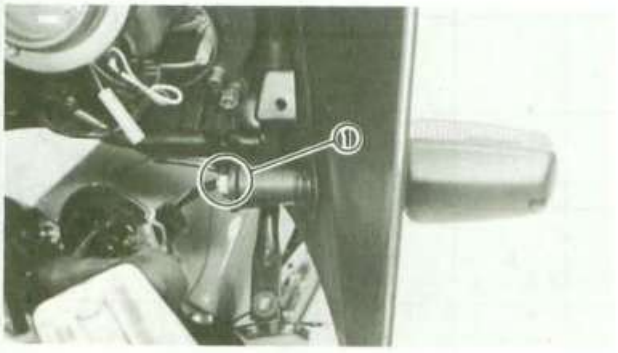
COWLING REMOVAL AND INSTALLATION

REMOVAL

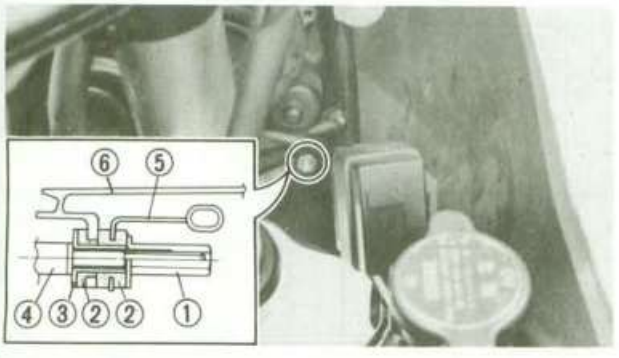
1. Remove:
   - Front cowling ① (Right and left)



2. Remove:
   - Radiator cap cover ①
   - Radiator cap ②
   - Front panel (Right) ③
   - Starter knob ④
   - Front panel (Left) ⑤



3. Disconnect:
   - Flasher light leads (Right and left)
4. Remove:
   - Nuts ① (Right and left)
   - Flasher lights (Right and left)



5. Remove:
   - Special nut (Right and left)

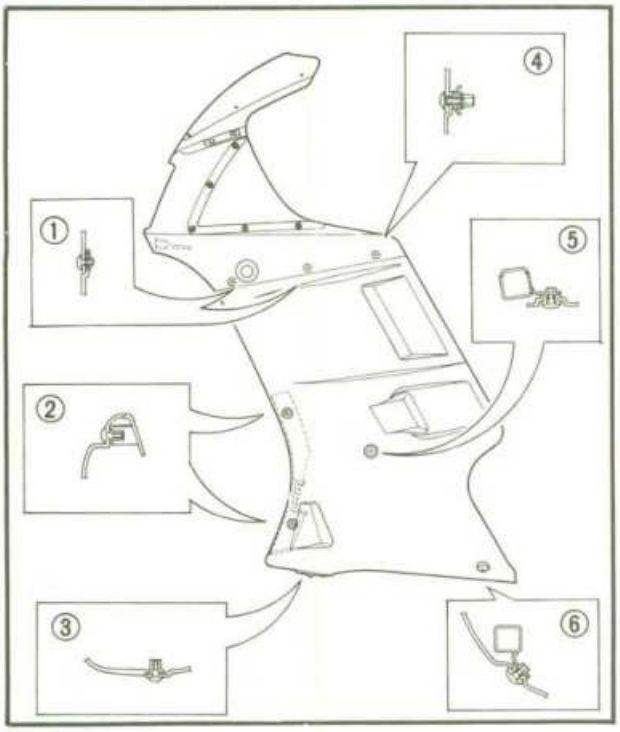
① Special nut
② Grommet
③ Collar
④ Upper cowling
⑤ Frame stay
⑥ Headlight unit



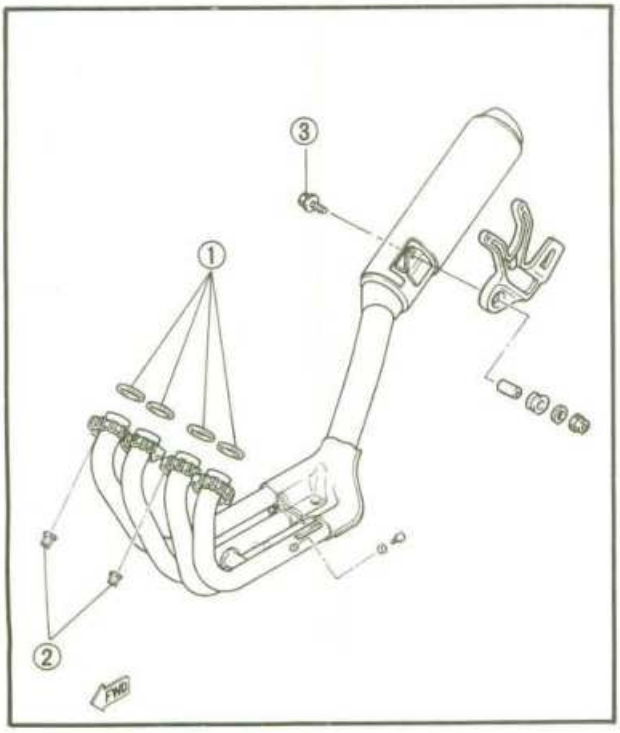
6. Remove:
   - Rear view mirrors
   - Upper cowling assembly

INSTALLATION

1. Install:
   Reverse removal steps.
   - Upper cowling assembly
   - Rear view mirrors
   - Flasher lights
   - Front panel (Right and left)
   - Front cowling (Right and left)



- Hexagon socket head bolt with plastic washer ① , ② , ③
- Hexagon socket head bolt (Large) with plastic washer (Black) ④
- Hexagon socket head bolt (Large) ⑤ , ⑥

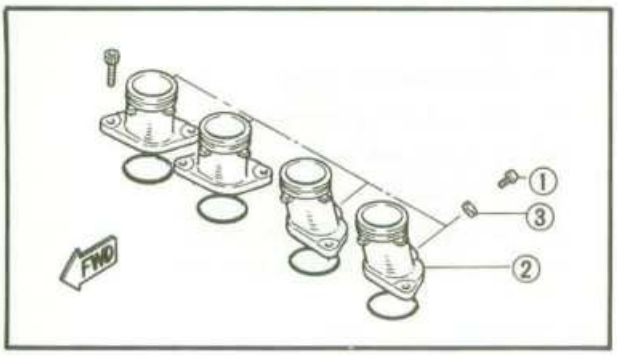


ENGINE

EXHAUST SYSTEM INSPECTION

1. Inspect:
   - Exhaust pipe gasket(s) ①
     Damage → Replace.
     Exhaust gas leakage → Repair.
2. Tighten:
   - Nuts (Exhaust pipes) ②
   - Bolt (Muffler bracket) ③

Exhaust Pipe Flange Nut ② :
10 Nm (1.0 m·kg, 7.2 ft·lb)
Muffler/Rear Footrest Bolt ③ :
25 Nm (2.5 m·kg, 18 ft·lb)

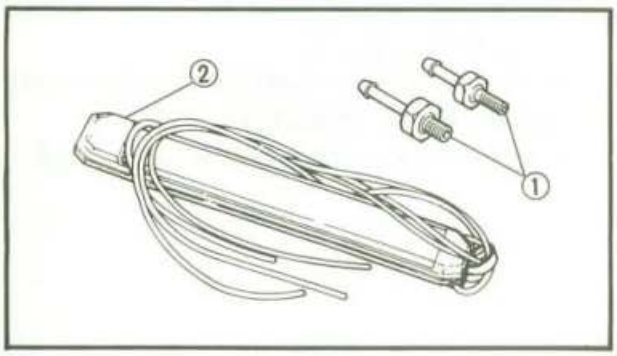


CARBURETOR SYNCHRONIZATION

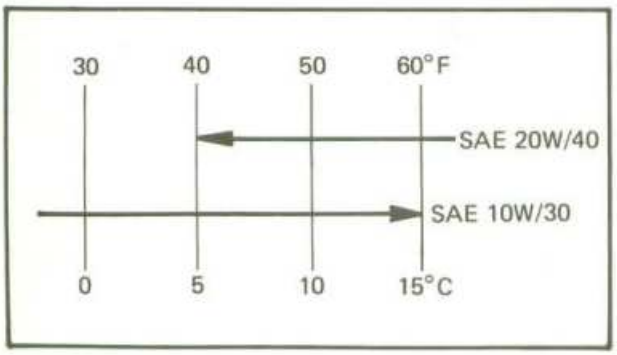
The following differ as to synchronization for the FZ750N.

1. Remove:
   - Screw ①

② Carburetor joint
③ Gasket



2. Install:
   - Attachment ① (YM-3060)
   - Vacuum gauge ② (YU-08030)



ENGINE OIL LEVEL MEASUREMENT AND REPLACEMENT

Recommended Engine Oil:
At 5°C (40°F) or Higher:
Yamalube 4-cycle oil or
SAE 20W40 Type SE Motor Oil
At 15°C (60°F) or Lower:
SAE 10W30 Type SE Motor Oil

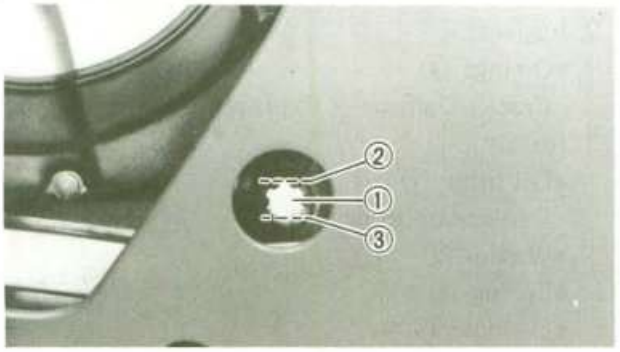
NOTE:
Recommended engine oil classification; API Service "SE", "SF" type or equivalent (e.g. "SF-SE", "SF-SE-CC", "SF-SE-SD" etc.).

Oil Level Measurement

1. Check:
   - Oil level

Oil level measurement steps:
- Place the motorcycle on a level place and hold it in an upright position.
- Warm up the engine for a few minutes.
- Stop the engine.
- Check the oil level through the level window located at the lower part of the right side crankcase cover.
  Oil level low → Add oil to proper level.

ENGINE OIL LEVEL MEASUREMENT AND REPLACEMENT

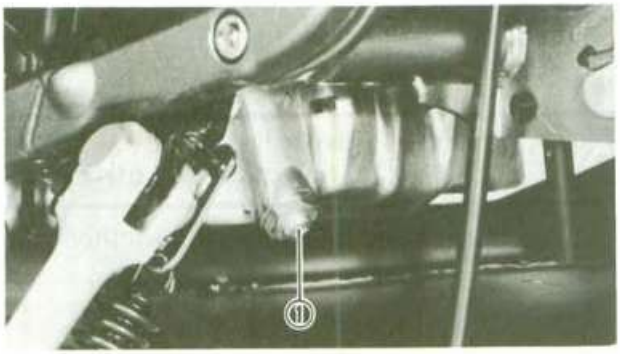


NOTE:
- Be sure the motorcycle is positioned straight up when checking the oil level; a slight tilt toward the side can produce false readings.
- Wait a few minutes until the oil level settles before checking.
- Oil level should be between maximum and minimum marks.

① Level window
② Maximum mark
③ Minimum mark

Oil Replacement (Without filter)

1. Remove:
   - Front cowling
     Refer to "COWLING REMOVAL AND INSTALLATION" section.
2. Warm-up engine for a few minutes.
3. Stop the engine.
4. Place an oil pan under the engine.
5. Remove:
   - Oil filler cap
   - Drain plug ①
   - Drain the engine oil
6. Install:
   - Drain plug ①



Oil Drain Plug:
43 Nm (4.3 m·kg, 31 ft·lb)

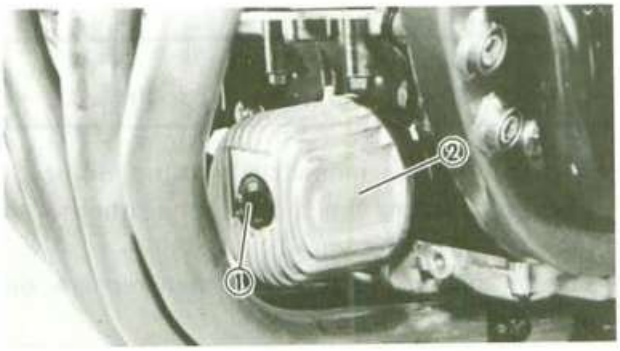
7. Fill:
   - Crankcase

Periodic Oil Change:
2.70 L (2.35 Imp qt, 2.85 US qt)

CAUTION:

Do not allow foreign material to enter the crankcase.

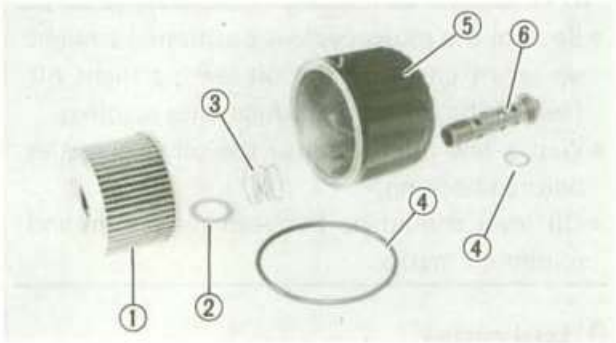
8. Install:
   - Filler cap

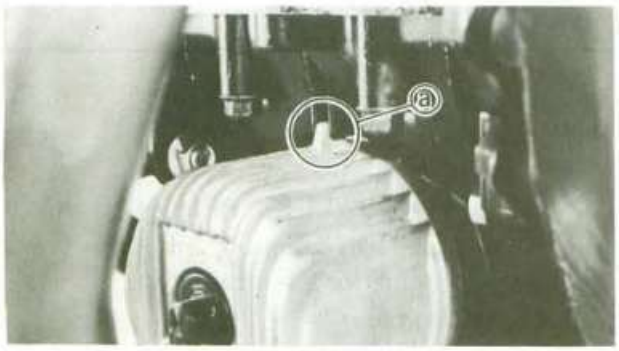


Oil Replacement (With filter)

Follow the "Oil Change (Without filter change)" steps 1-5. Then proceed as follows:

1. Remove:
   - Bolt ①
   - Oil filter cover ②
   - Spring
   - Washer
   - Oil filter





2. Inspect:
   - •O-rings ④
     Cracks/Damage → Replace.
3. Install:
   - •Oil filter ①
     Replace periodically
   - •Washer ②
   - •Spring ③
   - •O-rings ④
   - •Oil filter cover ⑤
   - •Bolt ⑥
   - •Drain plug

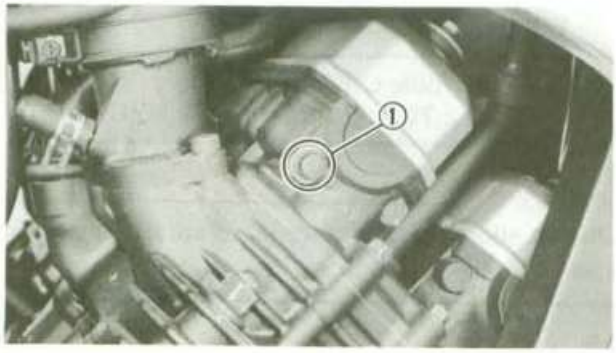
Drain Plug:
43 Nm (4.3 m·kg, 31 ft·lb)
Oil Filter Bolt:
15 Nm (1.5 m·kg, 11 ft·lb)

NOTE:
Mesh the oil filter cover projection ⓐ with the crankcase slot.

4. Fill:
   - •Crankcase

With Oil Filter Replacement:
3.0 L (2.6 Imp qt, 3.1 US qt)

5. Warm up engine for a few minutes, then stop engine.
6. Observe:
   - • Oil pressure



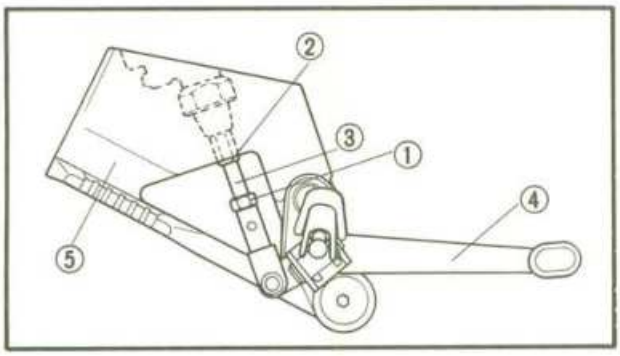
CAUTION:

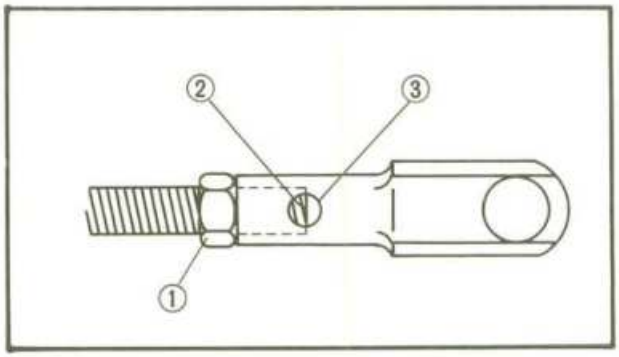
Check oil pressure after replacing engine oil as follows:
- **•Slightly loosen the oil gallery bolt ① in the cylinder head.**
- **•Start the engine. Keep it idling until oil begins to seep from the loosened oil gallery bolt.**
- **•Turn the engine off, and tighten the oil gallery bolt to specification.**

Oil Gallery Bolt:
10 Nm (1.0 m·kg, 7.2 ft·lb)

- **•Turn off engine immediately if no oil seeps from oil gallery bolt after one minute to prevent engine seizure.**
- **•Locate and resolve problem, then recheck oil pressure.**







CHASSIS

REAR BRAKE ADJUSTMENT

1. Check:
   - Brake pedal height ①
     Out of specification → Adjust.

Brake Pedal Height:
35 mm (1.4 in)
Below the Top of the Footrest

2. Loosen:
   - Locknut ①
3. Adjust:
   - Brake pedal height
     Turn the adjuster ② until the brake pedal position is at the specified height.

③ Push rod
④ Brake pedal
⑤ Footrest braket

4. Tighten:
   - Locknut ①

WARNING:

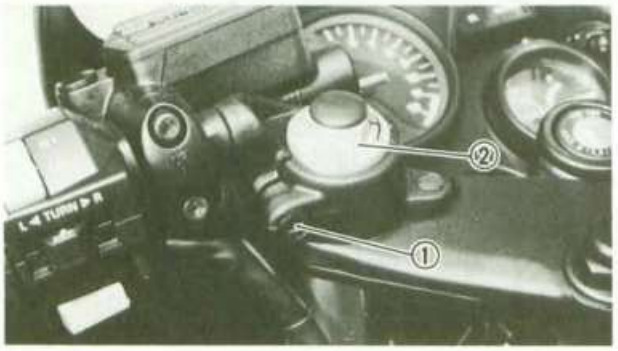
After adjusting the brake pedal height, visually check the adjuster end ② through the hole of the joint holder ③ . The adjuster end must appear within this hole.

FRONT FORK OIL CHANGE

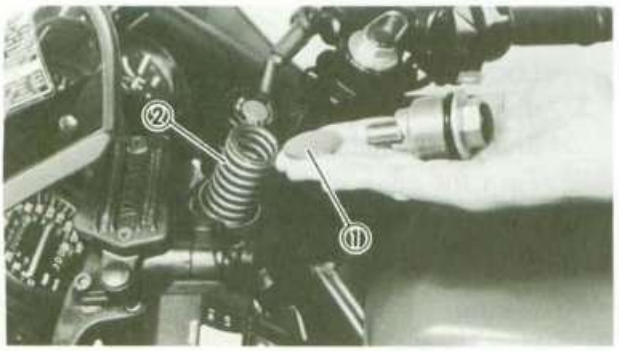
WARNING:

Securely support the motorcycle so there is no danger of it falling over.

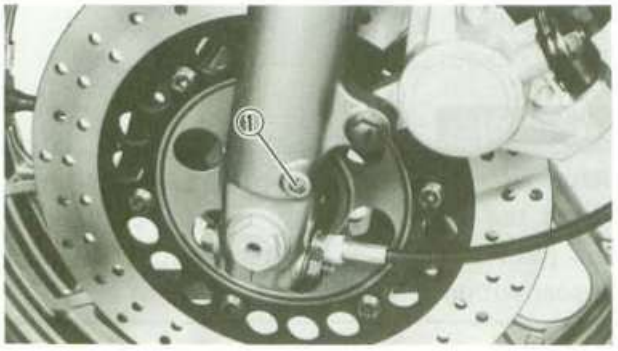
1. Elevate the front wheel by placing a suitable stand under the engine.



2. Loosen:
   - Pinch bolt (Front fork upper) ①
3. Remove:
   - Cap bolt (Front fork) ②



4. Remove:
   - Washer ①
   - Fork spring ②



5. Remove:
   - Drain screw ①

   Drain the fork oil.

WARNING:

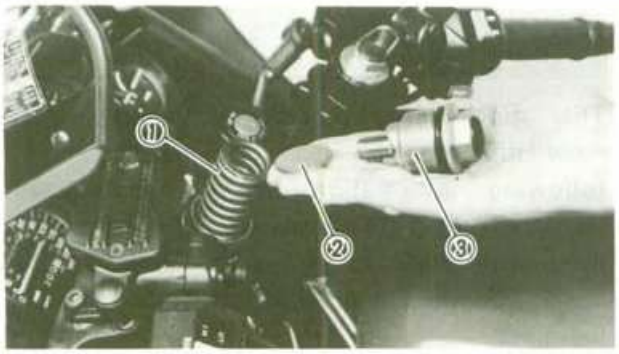
Do not allow any oil to contact the disc brake components. If oil is discovered, be sure to remove it, otherwise diminished braking capacity and damage to the rubber components of the brake assembly will occur.

6. Inspect:
   - O-ring (Cap bolt)
   - Gasket (Drain screw)

   Wear/Damage → Replace.
7. Install:
   - Drain screw
8. Fill:
   - Front fork

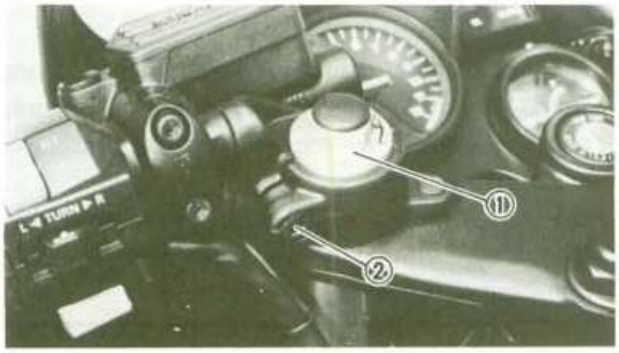
Front Fork Oil Capacity (Each Fork):
404 cm³
(14.21 Imp oz, 13.7 US oz)
Recommended Oil:
Yamaha fork oil 10wt or equivalent

After most of the oil has drained, slowly raise and lower outer tubes to pump out remaining oil.



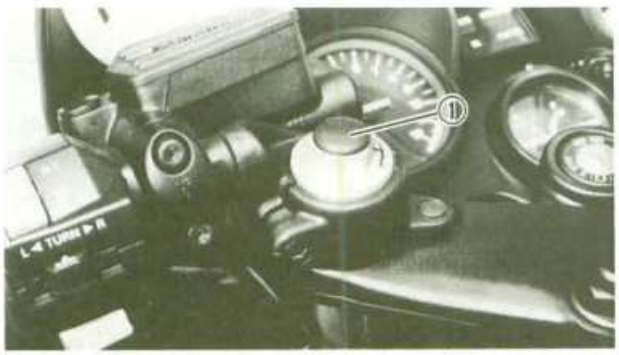
9. Install:
   - Fork spring ①
   - Washer ②
   - Cap bolt (Front fork) ③

NOTE:
Install the fork spring with its smaller pitch side up.



10. Tighten:
    - Cap bolt (Front fork) ①
    - Pinch bolt (Front fork upper) ②

Cap Bolt (Front Fork):
23 Nm (2.3 m·kg, 17 ft·lb)
Pinch Bolt (Front Fork Upper):
20 Nm (2.0 m·kg, 14 ft·lb)

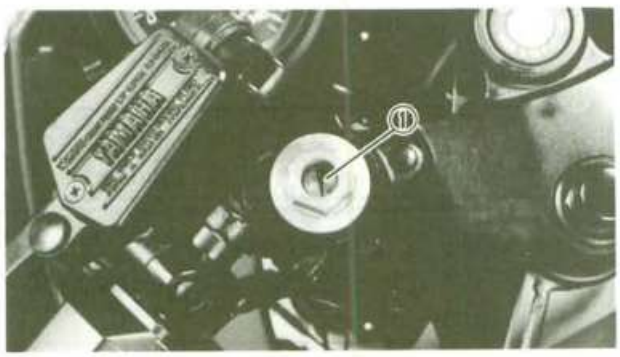


FRONT FORK AND REAR SHOCK ABSORBER ADJUSTMENT

Front Fork Adjustment

WARNING:

Always adjust each fork preload to the same setting. Uneven adjustment can cause poor handling and loss of stability.



1. Remove:
   - Rubber cap (Front fork) ①
2. Adjust:
   - Adjuster spring preload ①

Spring preload adjustment steps:
- Turn the adjuster counterclockwise while pushing down ward until it stops; then, turn 1 position clockwise.
  (This is the standard position)

Hard → Turn the adjuster clockwise.
Soft → Turn the adjuster counterclockwise.

CAUTION:

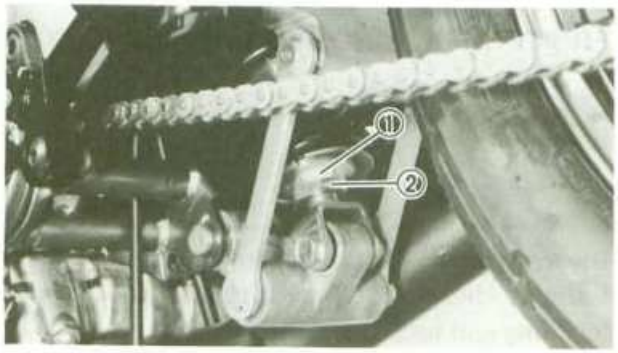
Turn the spring preload adjuster from 1 to 4 or 4 to 1 in progressive steps. Never turn the adjuster directily from 1 to 4 or 4 to 1.

Rear Shock Absorber Adjustment

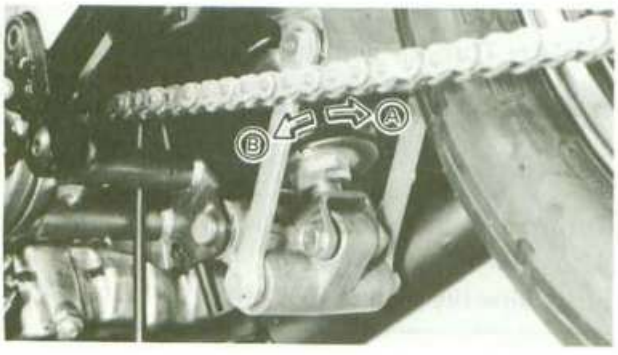
WARNING:

This shock absorber contains highly pressurized nitrogen gas Read and understand the following information before handling the shock absorber. The manufacture cannot be held responsible for property damage or personal injury that may result from improper handling.

- **Do not tamper with or attempt to open the cylinder assembly.**
- **Do not subject shock absorber to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure.**
- **Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance.**







1. Adjust:
   - Adjuster spring preload ①

Spring preload adjustment steps:
The preload is adjusted by changing the set length of the spring: a shorter set length increases the preload, a longer set length decreases the preload.

- To adjust the preload, loosen the locknut ② .
- Adjust the spring set length by turning the spring adjuster with the special wrench ③ .

NOTE:
The length of the spring (Installed) changes 1.0 mm (0.04 in) per turn of the adjuster.

Hard → Turn the adjuster clockwise Ⓐ .
Soft → Turn the adjuster counterclockwise Ⓑ .

CAUTION:

- **Never attempt to turn the adjuster beyond the maximum or minimum setting.**
- **Always tighten the lock nut against the spring adjuster and torque the lock nut to specification.**

- Tighten the lock nut ② .

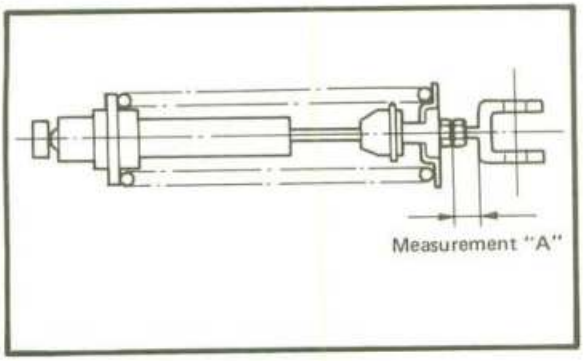
Lock nut:
42 Nm (4.2 m·kg, 30 ft·lb)

FRONT FORK AND REAR SHOCK ABSORBER ADJUSTMENT

Recommended combinations of the front fork and the rear shock absorber settings.

Use this table as a guide for specific riding and motorcycle load conditions.

	Front fork	Rear shock absorber	Loading condition			
	Spring preload adjuster	Measurement "A"	Solo rider	With passenger	With accessoires and equipment	With accessories, equipment, and passenger
1.	1, 2	12.5 ~ 16.5 mm (0.49 ~ 0.65 in)	○			
2.	2, 3	14.5 ~ 18.5 mm (0.57 ~ 0.73 in)		○	○	
3.	3, 4	16.5 ~ 20.5 mm (0.65 ~ 0.81 in)				○

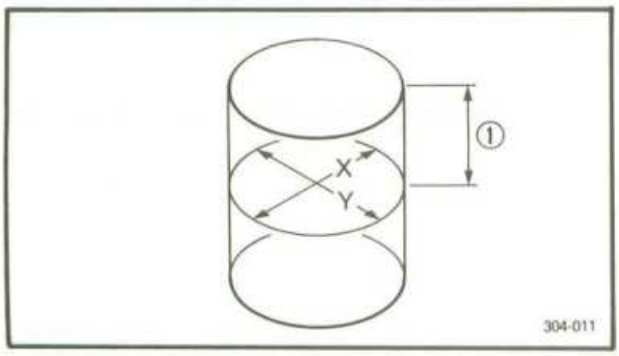


ENGINE OVERHAUL

INSPECTIN AND REPAIR

CYLINDER AND PISTON

1. Inspect:
   - Cylinder and Piston walls
     Vertical scratches → Rebore or Replace cylinder and piston.
2. Measure:
   - Piston-to-cylinder clearance



Piston-to-cylinder clearance measurement steps:

First step:

- Measure the cylinder bore "C" with a Cylinder Bore Gauge.

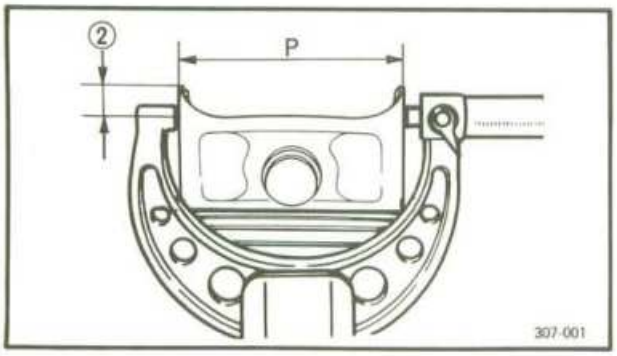
① 40 mm (1.57 in) from the cylinder top.

NOTE:

Measure the cylinder bore "C" in parallel to and at right angles to the crankshaft. Then, find the average of the measurements.

	Standard	Wear Limit
Cylinder Bore "C":	68,000 ~ 68,005 mm (2.6772 ~ 2.6174 in)	68.1 mm (2.681 in)

$$C = \frac{X + Y}{2}$$



- If out of specification, rebore or replace cylinder, and replace piston and piston rings as a set.

2nd step:

- Measure the piston skirt diameter "P" with a micrometer.

② 3 mm (0.12 in) from the piston bottom edge.

	Piston size P
Standard	67.925 ~ 67.940 mm (2.674 ~ 2.675 in)
Oversize 2	68.50 mm (2.677 in)

- If out of specification, replace piston and piston rings as a set.

3rd step:

- Calculate the piston-to-cylinder clearance with following formula:

Piston-to-cylinder clearance =
Cylinder bore "C" – Piston skirt diameter "P"

- If out of specification, rebore or replace cylinder, and replace piston and piston rings as a set.



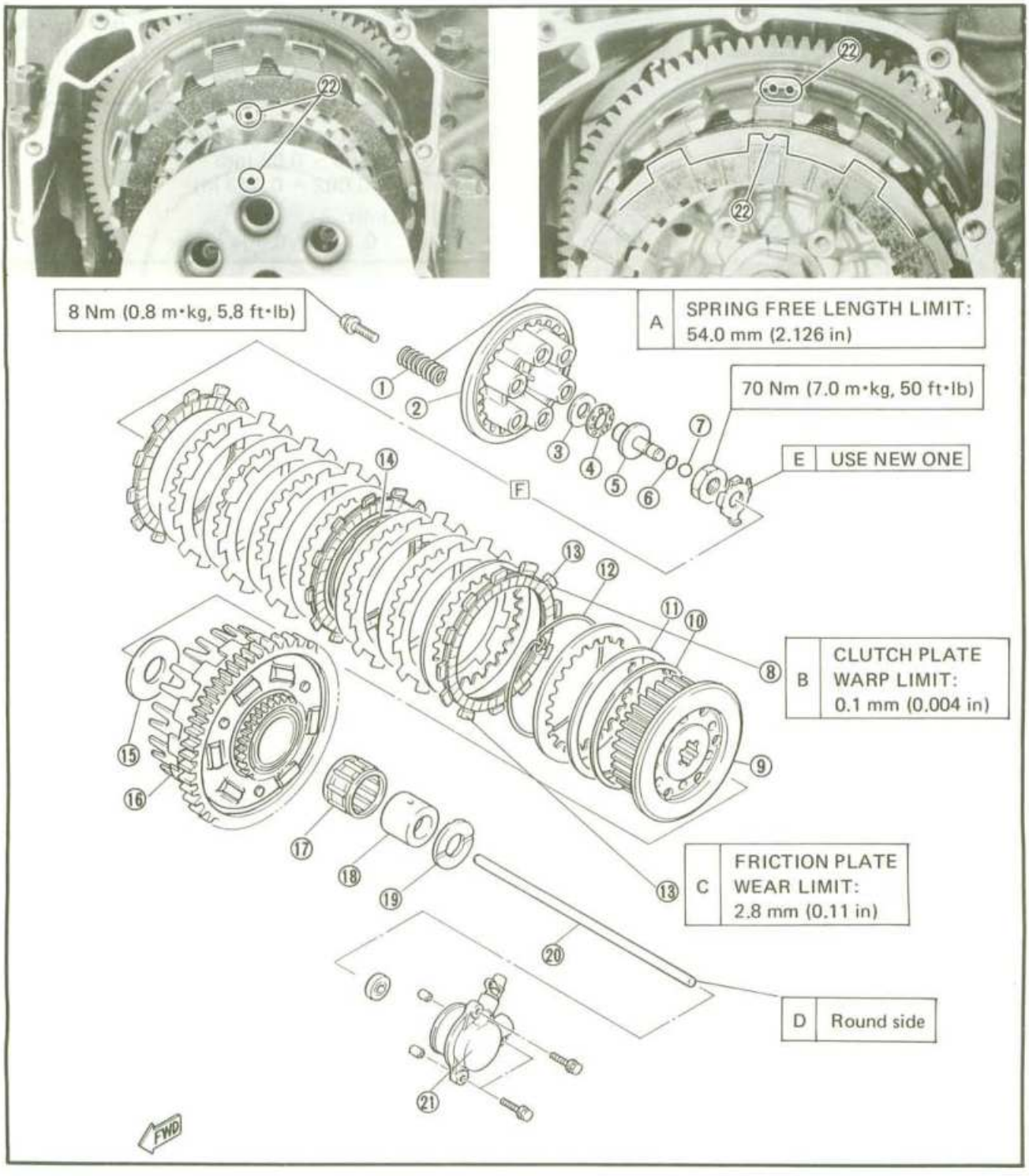
Piston-to-cylinder clearance:
0.06 ~ 0.08 mm
(0.002 ~ 0.003 in)
Limit:
0.1 mm (0.004 in)

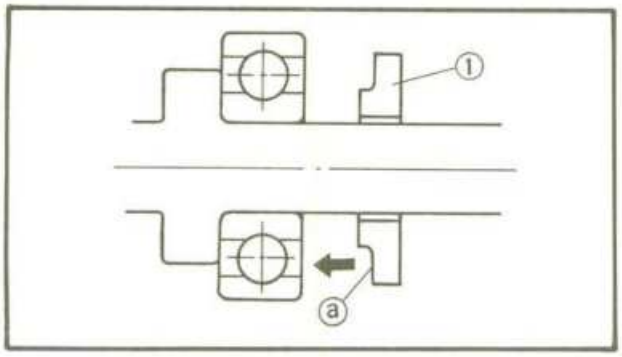
CLUTCH

① Clutch spring
② Pressure plate
③ Washer
④ Push rod bearing
⑤ Push rod #1
⑥ O-ring
⑦ Push rod ball
⑧ Clutch plate
⑨ Clutch boss
⑩ Seat plate
⑪ Spring clutch boss
⑫ Wire circlip
⑬ Friction plate
⑭ Cushion spring
⑮ Washer
⑯ Primary driven gear
⑰ Bearing
⑱ Spacer
⑲ Thrust washer
⑳ Push rod #2
㉑ Clutch release assembly
㉒ Match mark

NOTE:

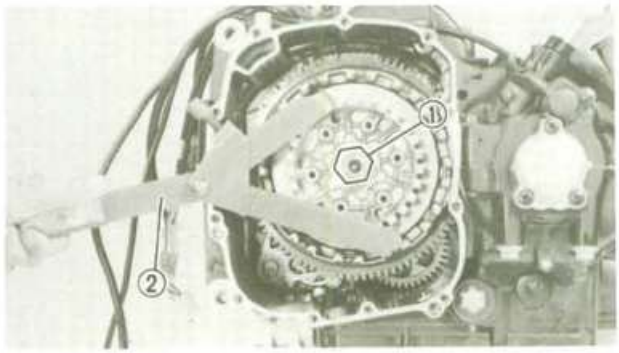
[F] The clutch boss ⑨ contains a built-in damper beneath the clutch plate (Thick). It is not necessary to remove the wire circlip ⑫ and disassemble the built-in damper unless there is serious clutch chattering.





1. Install:
   - Thrust washer ①
   - Spacer
   - Bearing
   - Primary driven gear
   - Washer
   - Lock washer (New)

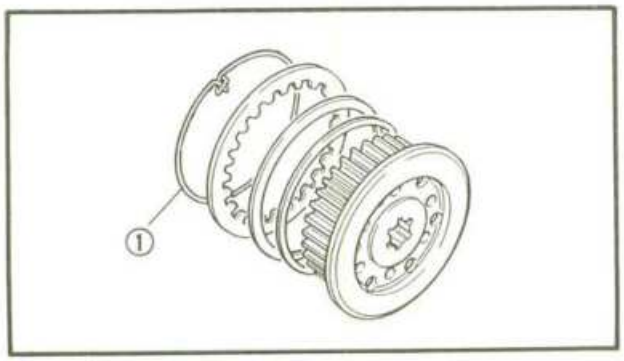
NOTE:
Be sure the thrust washer must be installed its stepped fringe ⓐ facing the bearing.



2. Tighten:
   - Nut (Clutch boss) ①
     Using Universal Clutch Holder ② (YM-91042).

Nut (Clutch Boss):
70 Nm (7.0 m·kg, 50 ft·lb)

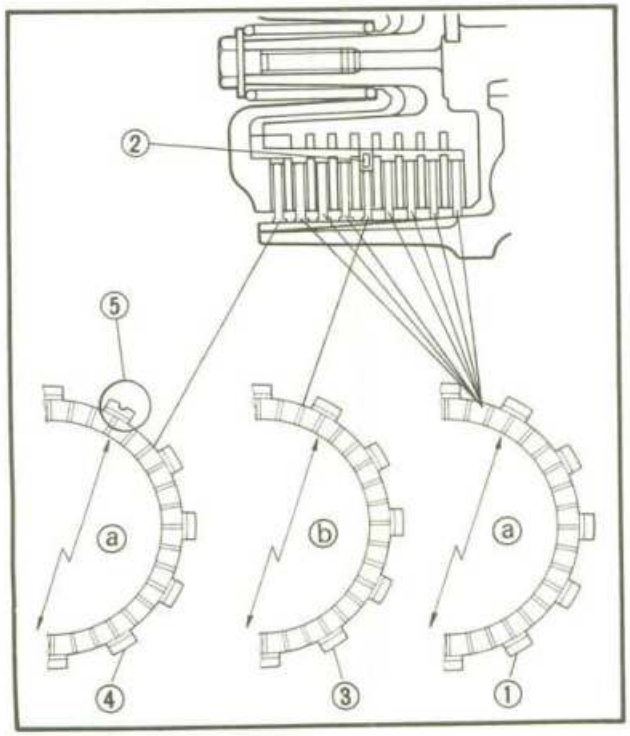
NOTE:
Bend the lock washer tab along the nut flat.



NOTE:
- If the wire circlip ① is removed, reinstall it as illustrated.
- Install the seat plate with its outside mark on the outside.

CAUTION:
If the wire circlip ① is removed, always use a new one for reinstallation.

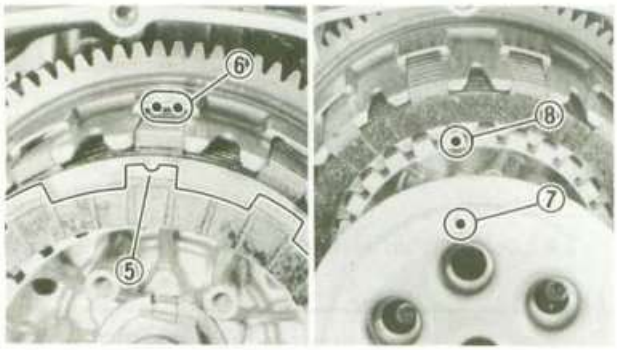
① Wire circlip



3. Install:
   - Friction plates
   - Clutch plates
   - Cushion spring

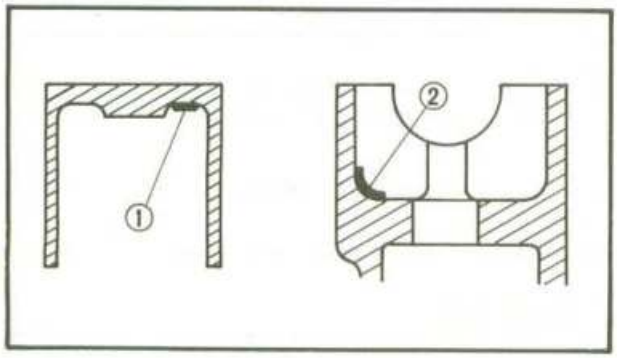
ⓐ Large ⓑ Small

Friction plate and clutch plates installation steps:
- Install the three friction plates ① and the three clutch plates mutually.
- Install the cushion spring ② and the one friction plate (Small) ③ .
- Install the four clutch plates and the three friction plates ① mutually.
- Install the friction plate ④ (With circular mark ⑤).



- Align the friction plate circular mark ⑤ with clutch housing double emobssed match mark ⑥ . Be sure this friction plate is placed between its respective clutch plate and the pressure plate.
- Align the pressure plate mark ⑦ with clutch boss mark ⑧ .

Clutch Spring Holder Screws:
8 Nm (0.8 m·kg, 5.8 ft·lb)



VALVE LIFTER SELECTION

Select the service part valve lifter as follows:

Valve lifter		Camshaft case	
Part No	Color ①	Color ②	Inside dia.
1AA-12153-01	Black	Purple	$20^{+0}_{-0.006}$ mm
		Yellow	$20^{+0.006}_{+0}$ mm
1AA-12153-09	Green	Blue	$20^{+0.006}_{+0}$ mm
		Red	$20^{+0.018}_{+0.012}$ mm

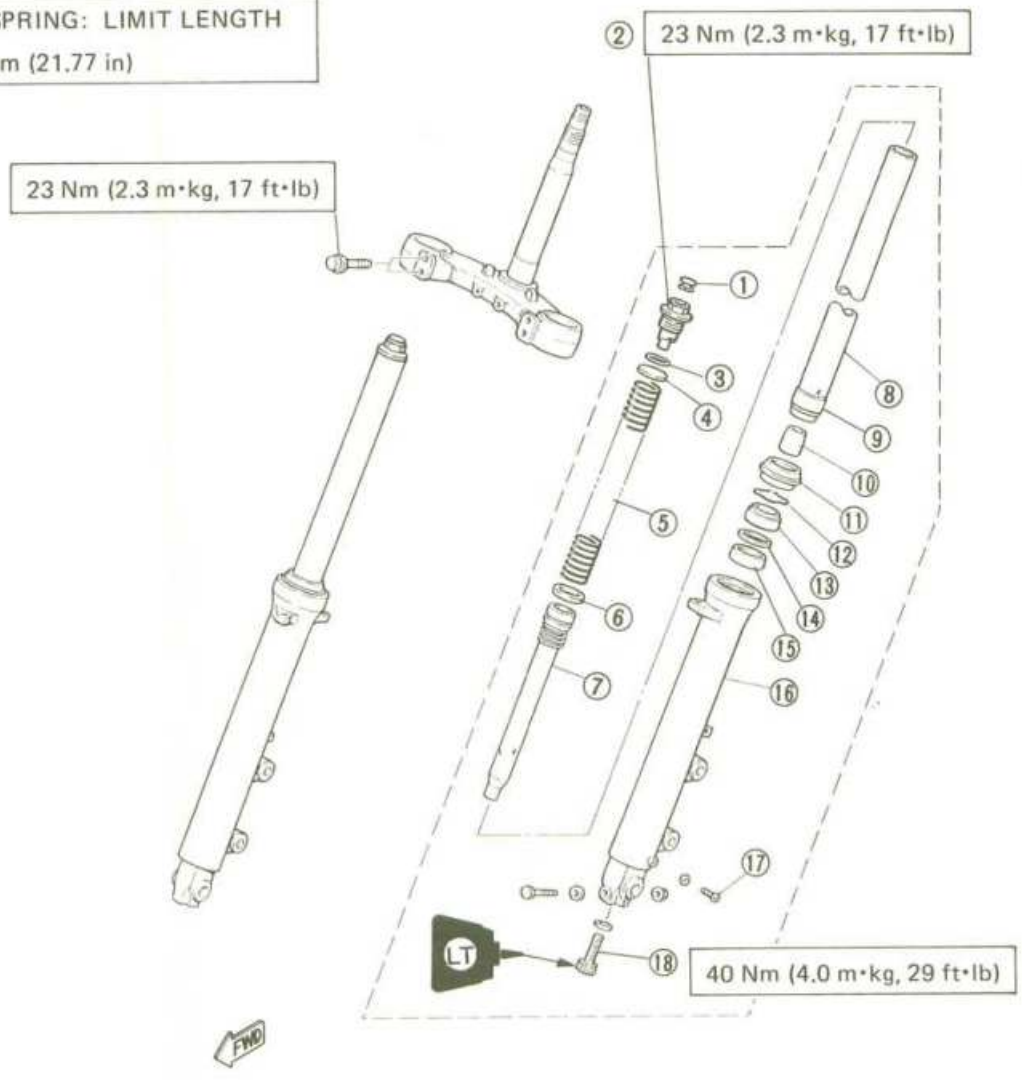
CHASSIS

FRONT FORK

① Rubber cap
② Cap bolt
③ O-ring
④ Washer
⑤ Fork spring
⑥ Piston ring
⑦ Damper rod
⑧ Inner fork tube
⑨ Slide bush
⑩ Oil lock piece
⑪ Dust seal
⑫ Retaining clip
⑬ Oil seal
⑭ Plate washer
⑮ Guide bush
⑯ Outer fork tube
⑰ Drain screw
⑱ Damper rod securing bolt

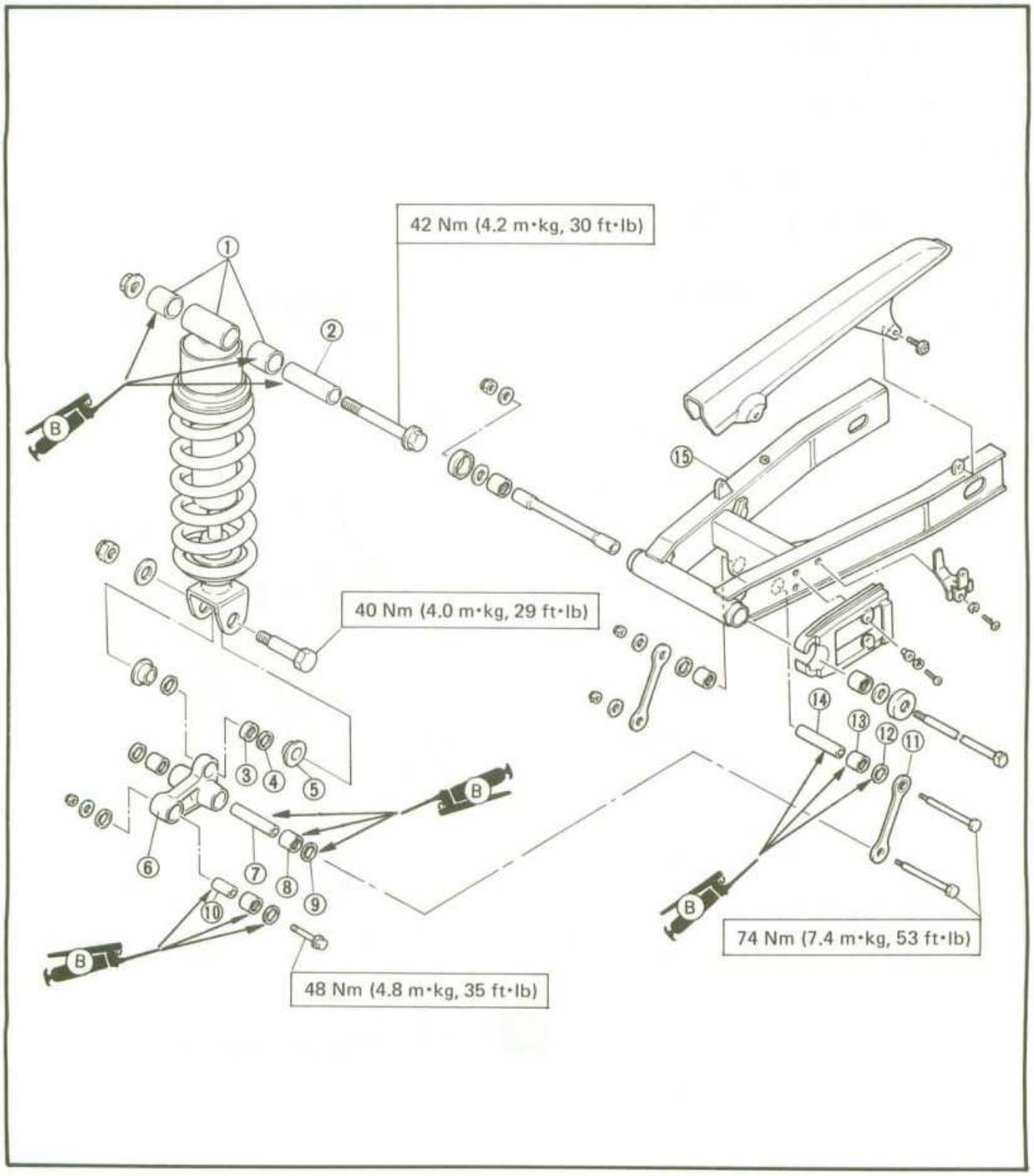
A	FORK OIL (EACH):
B	CAPACITY: 404 cm^3 (14.2 Imp oz, 13.7 US oz)
C	GRADE: Yamaha fork oil 10wt or equivalent

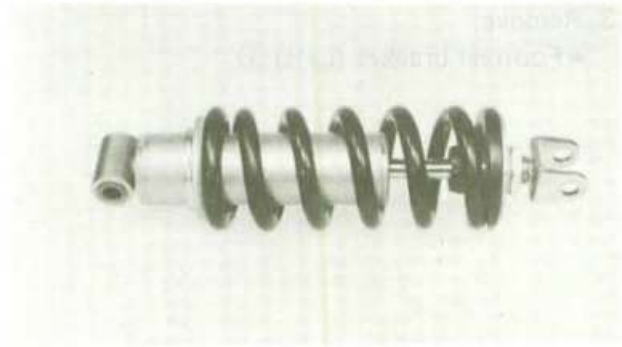
D	FORK SPRING: FREE LENGTH 559 mm (22 in)
E	FORK SPRING: LIMIT LENGTH 552.9 mm (21.77 in)



REAR SHOCK ABSORBER AND REAR ARMS

① Rear shock absorber assembly
② Collar
③ Bearing
④ Oil seal
⑤ Collar
⑥ Relay arm
⑦ Collar
⑧ Bearing
⑨ Oil seal
⑩ Collar
⑪ Arm
⑫ Oil seal
⑬ Bearing
⑭ Collar
⑮ Rear arm



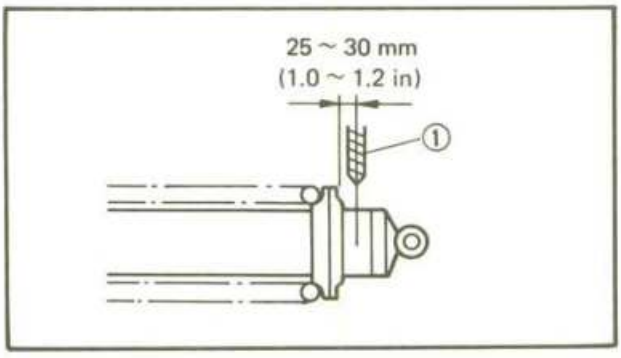


HANDLING NOTES

WARNING:

This shock absorber contains highly compressed nitrogen gas. Read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling.

- **Do not tamper or attempt to open the cylinder assembly.**
- **Do not subject shock absorber to an open flame or other high heat. This may cause the unit to explode due to excessive gas pressure.**
- **Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance.**



DISPOSAL NOTES

Shock absorber disposal steps:

Gas pressure must be released before disposing shock absorber. To do so, drill ① a 2 ~ 3 mm (0.08 ~ 0.12 in) hole through the cylinder wall at a point 25 ~ 30 mm (1.0 ~ 1.2 in) under the spring seat.

CAUTION:

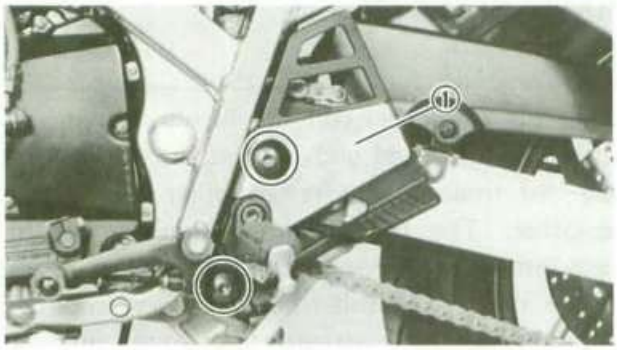
Wear eye protection to prevent eye damage from escaping gas and/or metal chips.

REMOVAL

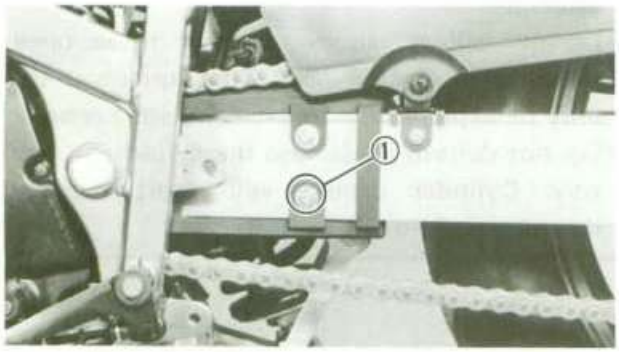
WARNING:

Support the motorcycle securely so there is no danger of it falling over.

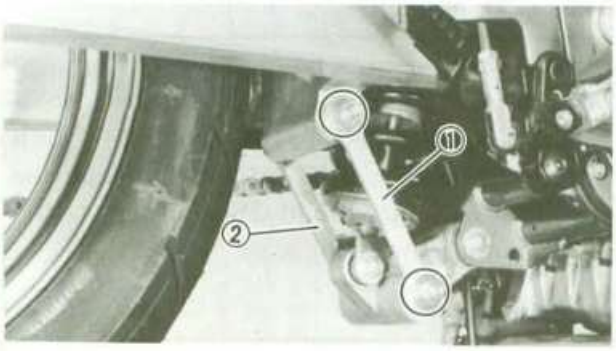
1. Remove:
   - Front cowling
     Refer to "COWLING REMOVAL AND INSTALLATION" section.
   - Seat
   - Side covers (Right and left)
   - Muffler
2. Elevate the rear wheel by placing a jack or block beneath the engine.



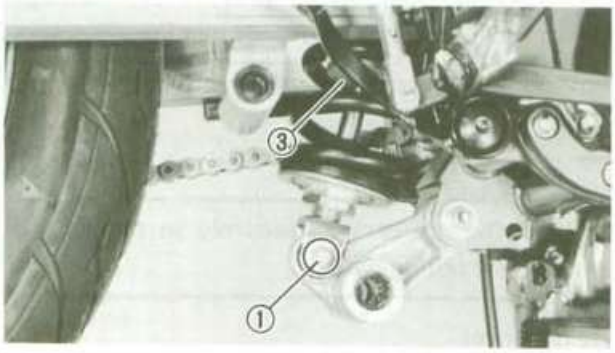
3. Remove:
   - Footrest bracket (Left) ①



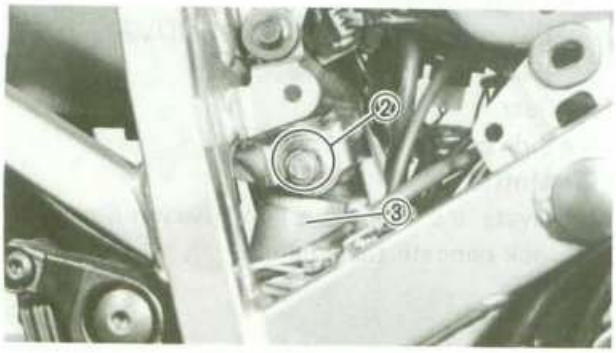
4. Remove:
   - Screw (Seal guard – Under) ①

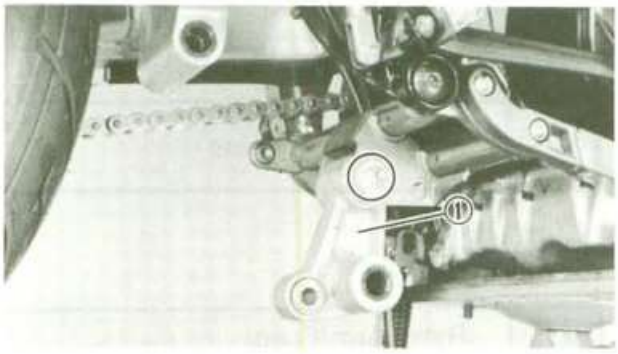


5. Remove:
   - Arm (Right) ①
   - Arm (Left) ②



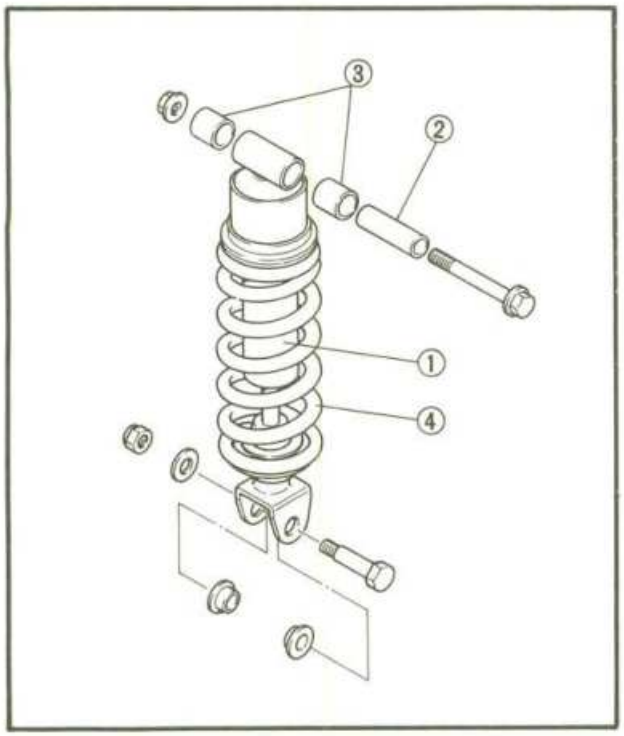
6. Remove:
   - Nut (Rear shock absorber – Bottom) ①
   - Nut (Rear shock absorber – Top) ②
   - Rear shock absorber ③





Remove

- Relay arm ①



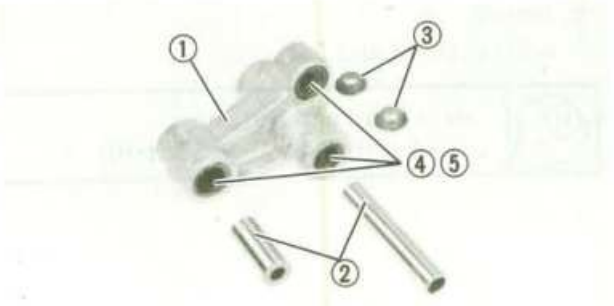
INSPECTION

1. Inspect:
   - Shock absorber ①
     Oil leaks/Gas leaks/Damage → Replace rear shock absorber.

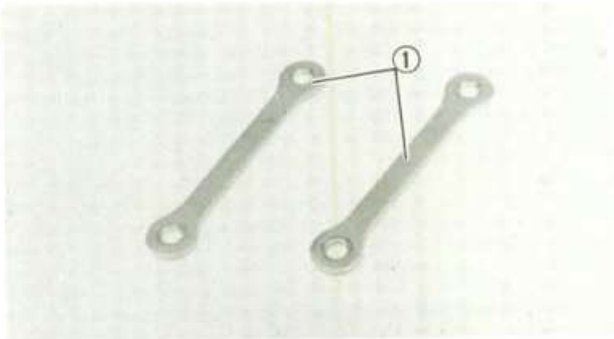
NOTE:

It is not possible to disassemble the shock absorber. Always replace with a new shock absorber.

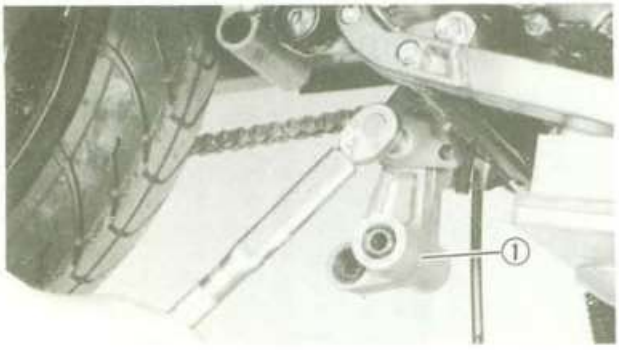
- Collar ②
  Wear/Damage → Replace.
- Bushings ③
  Wear/Damage → Replace.
- Spring ④
  Fatigue → Replace the shock absorber assembly.

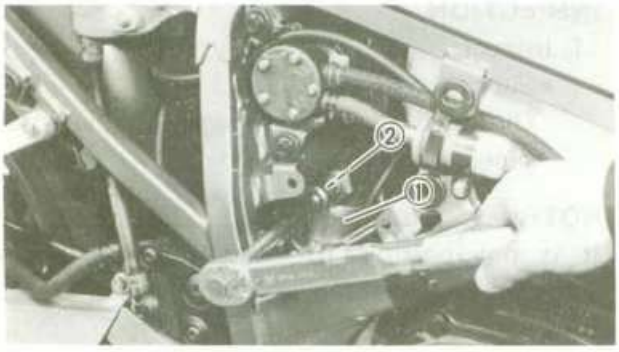


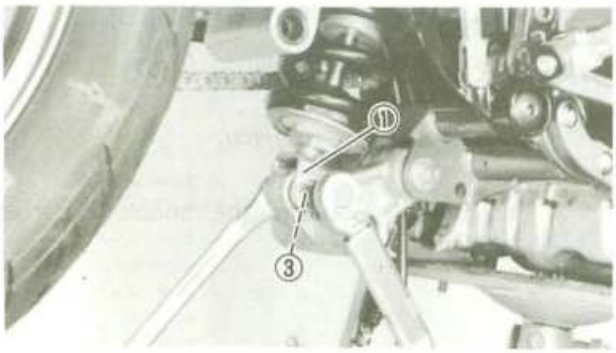
2. Inspect:
   - Relay arm ①
   - Collars ②
   - Collars ③
   - Bearings ④
   - Oil seals ⑤
     Damage/Wear → Replace.

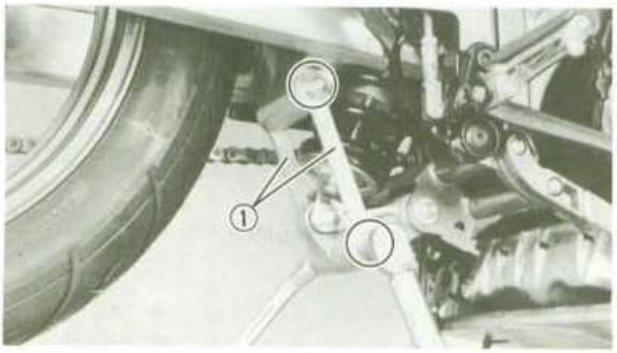


3. Inspect:
   - Arms ①
     Damage/Wear → Replace.









INSTALLATION

1. Grease the bearings, collar, and dust seals.

	Molybdenum Grease

2. Install:
   - Relay arm ①

	Relay Arm/Fram: **48 Nm (4.8 m·kg, 35 ft·lb)**

3. Install:
   - Rear shock absorber assembly ①
4. Tighten:
   - Nut (Rear shock absorber – Top) ②
   - Nut (Rear shock absorber – Bottom) ③

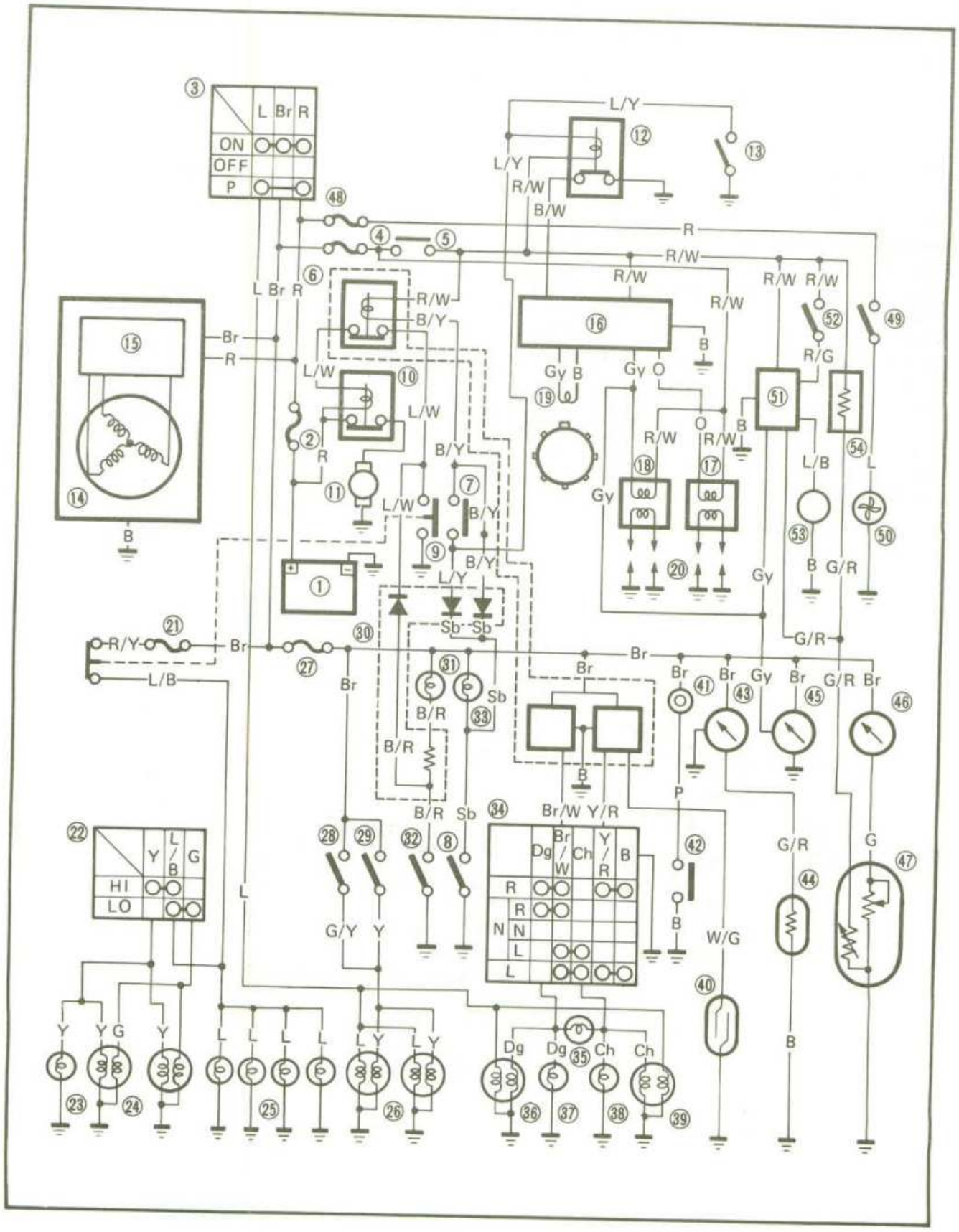
	Rear Shock Absorber – Top: **42 Nm (4.2 m·kg, 30 ft·lb)** **Rear Shock Absorber – Bottom:** **40 Nm (4.0 m·kg, 29 ft·lb)**

5. Install:
   - Arm (Right and Left) ①

	Arm (Top and Bottom): **74 Nm (7.4 m·kg, 53 ft·lb)**

ELECTRICAL

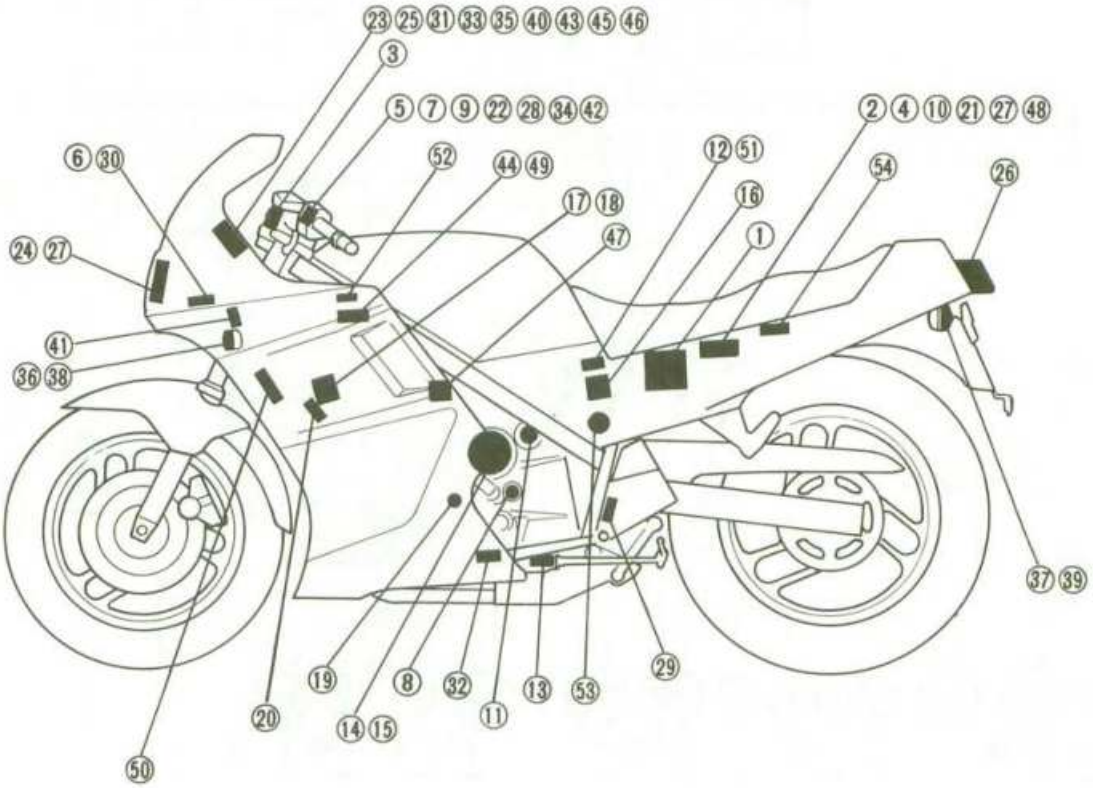
FZ700T/TC CIRCUIT DIAGRAM



① Battery
② Main fuse
③ Main switch
④ Ignition fuse
⑤ "ENGINE STOP" switch
⑥ Relay assembly
⑦ Clutch switch
⑧ Neutral switch
⑨ "START" switch
⑩ Starter relay
⑪ Starter motor
⑫ Sidestand relay
⑬ Sidestand switch
⑭ AC generator
⑮ Rectifier/Regulator
⑯ Ignitor unit
⑰ Ignition coil (#1 and #4 cylinder)
⑱ Ignition coil (#2 and #3 cylinder)
⑲ Pickup coil
⑳ Spark plug
㉑ Head fuse
㉒ Dimmer switch
㉓ "HIGH BEAM" indicator light
㉔ Headlight
㉕ Meter illumination light
㉖ Tail/Brake light
㉗ Signal fuse
㉘ Front brake switch
㉙ Rear brake switch
㉚ Diode brock
㉛ "OIL" indicator light
㉜ Oil level switch
㉝ "NEUTRAL" indicator light
㉞ "TURN" switch
㉟ "TURN" indicator light
㊱ Front flasher light (Right)
㊲ Rear flasher light (Right)
㊳ Front flasher light (Left)
㊴ Rear flasher light (Left)
㊵ Reed switch
㊶ Horn
㊷ "HORN" switch
㊸ Temperature meter
㊹ Thermo unit
㊺ Tachometer
㊻ Fuel meter
㊼ Fuel sender
㊽ Fan fuse
㊾ Thermo switch
㊿ Fan motor
(51) Pump relay
(52) "FUEL" (Reserve) switch
(53) Fuel pump
(54) Register

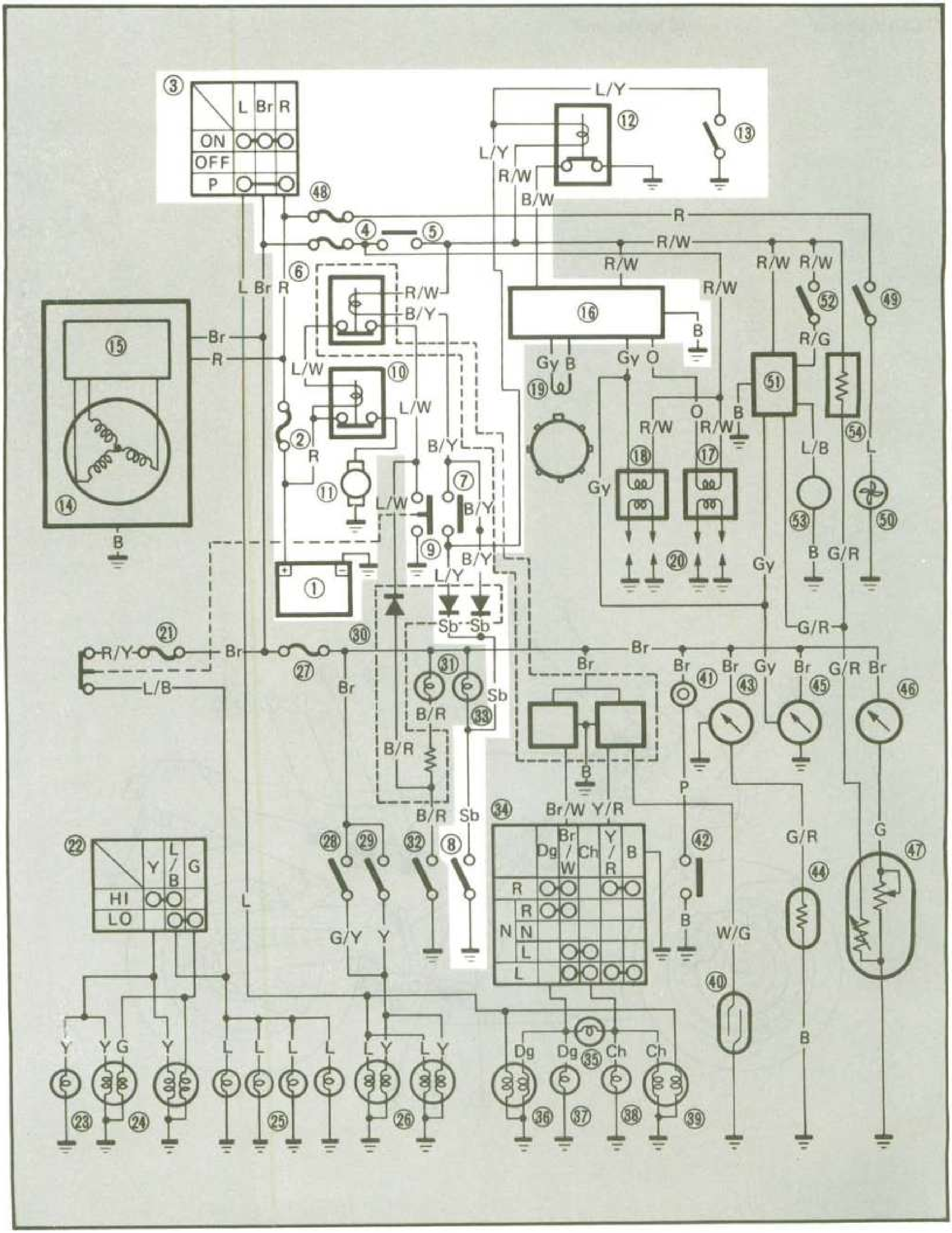
COLOR CODE

L . . . . . .Blue
R . . . . . .Red
G . . . . . .Green
B . . . . . .Black
Y . . . . . .Yellow
P . . . . . .Pink
W . . . . . .White
O . . . . . .Orange
Dg . . . . . .Dark green
Gy . . . . . .Gray
Br. . . . . .Brown
Ch . . . . . .Chocolate
Sb . . . . . .Sky blue
R/W . . . . .Red/White
R/Y . . . . .Red/Yellow
R/G . . . . .Red/Green
L/R . . . . .Blue/Red
L/W . . . . .Blue/White
L/B. . . . . .Blue/Black
L/Y . . . . .Blue/Yellow
W/G . . . . .White/Green
Y/R . . . . .Yellow/Red
B/R . . . . .Black/Red
B/Y . . . . .Black/Yellow
B/W . . . . .Black/White
G/Y . . . . .Green/Yellow
G/R . . . . .Green/Red
Br/W. . . . .Brown/White



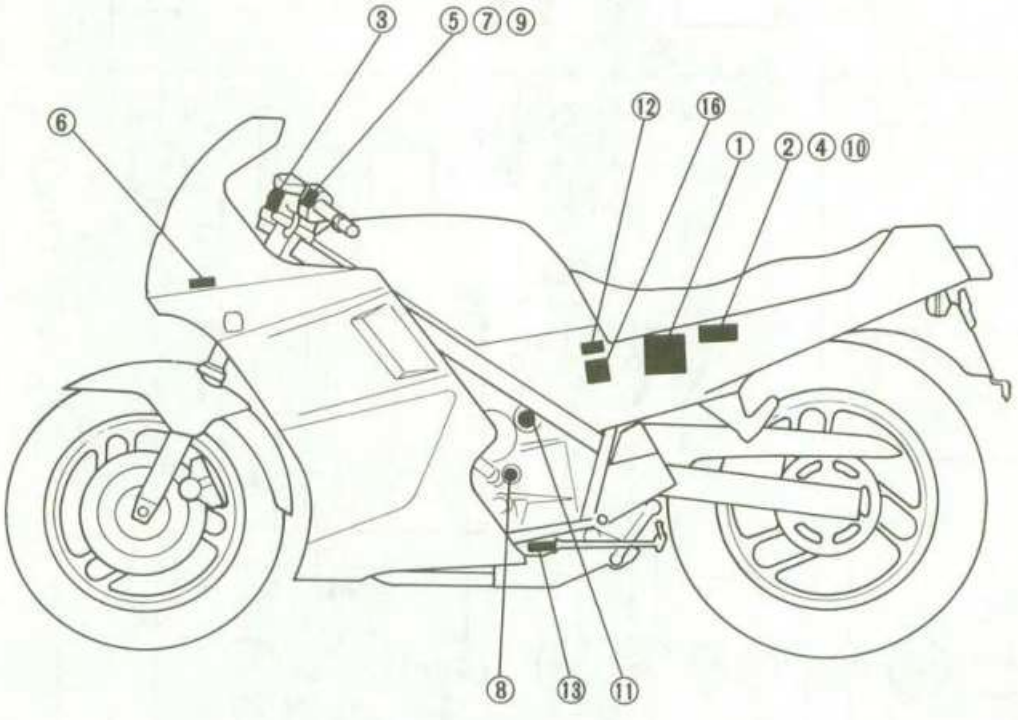
ELECTRIC STARTING SYSTEM

CIRCUIT DIAGRAM



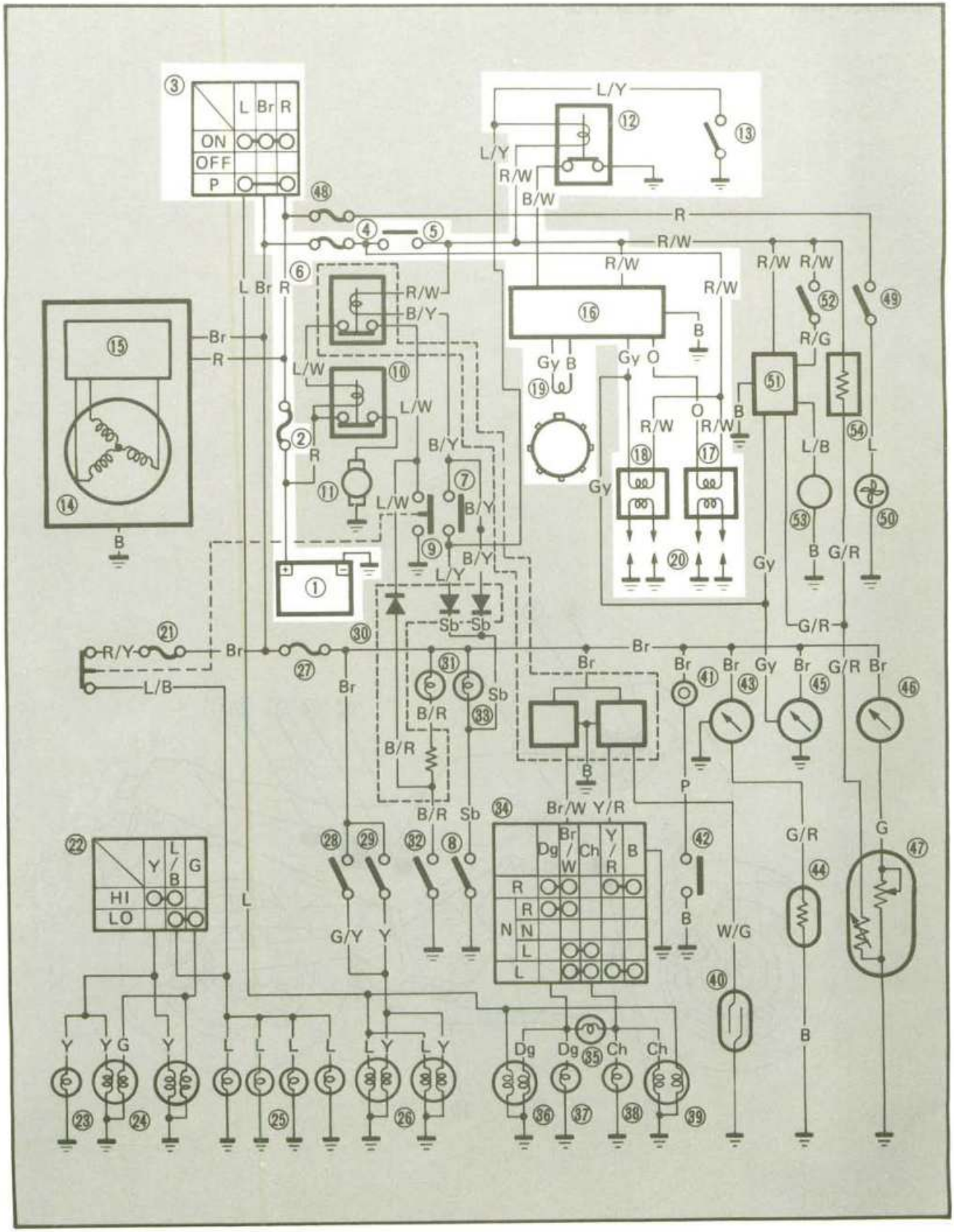
① Battery
② Main fuse
③ Main switch
④ Ignition fuse
⑤ "ENGINE STOP" switch
⑥ Relay assembly
⑦ Clutch switch
⑧ Neutral switch
⑨ "START" switch
⑩ Starter relay
⑪ Starter motor
⑫ Sidestand relay
⑬ Sidestand switch
⑯ Ignitor unit

NOTE:
For the colors codes, refer to page 26.



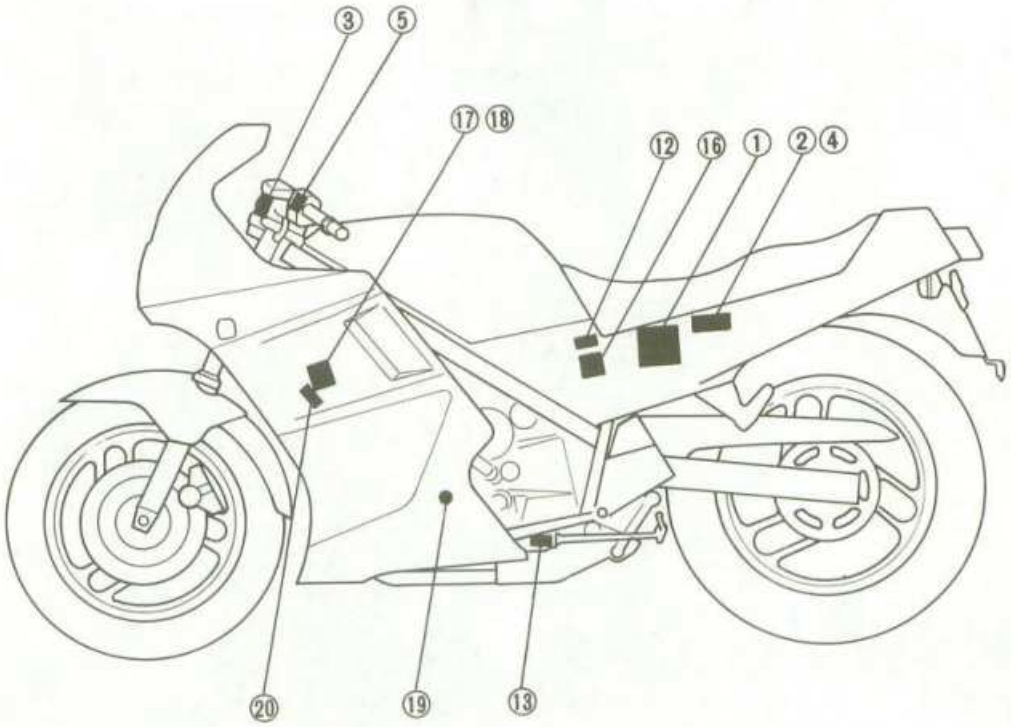
IGNITION SYSTEM

CIRCUIT DIAGRAM



① Battery
② Main fuse
③ Main switch
④ Ignition fuse
⑤ "ENGINE STOP" switch
⑫ Sidestand relay
⑬ Sidestand switch
⑯ Ignitor unit
⑰ Ignition coil (#1, 4 cylinder)
⑱ Ignition coil (#2, 3 cylinder)
⑲ Pickup coil
⑳ Spark plug

NOTE:
For the colors codes, refer to 26.



TROUBLESHOOTING CHART

IF IGNITION SYSTEM SHOULD BECOME INOPERATIVE (NO SPARK OR INTERMITTENT SPARK).

1. INSPECT: Main fuse
Fuse (Ignition)

Connect the Pocket Tester to fuse and check it for continuity.

No Continuity → Replace fuse(s).

Continuity ↓

2. INSPECT: Battery fluid level
Battery terminals
Specific gravity

SPECIFIC GRAVITY:
1.280 ± 0.01 at 20°C (68°F)

Incorrect/Low specific gravity →
- Refill battery fluid
- Clean battery terminals
- Recharge battery

OK ↓

3. INSPECT: Spark plug gap

0.8 ~ 0.9 mm (0.03 ~ 0.04 in)

Out of specification → Replace or regap spark plug.

OK ↓

4. CHECK: Ignition spark gap

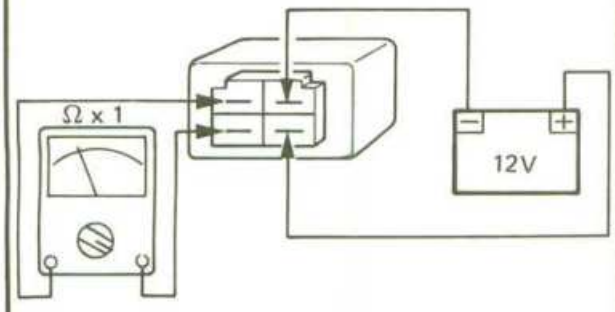
Use Electro Tester.
(Adjustable spark tester: USA, CAN)
Minimum spark gap: 6 mm (0.24 in)

OK → Ignition system is OK.

Out of specification ↓

5. CHECK: Sidestand relay

Connect Pocket Tester and 12V battery to sidestand relay and check it for continuity.



Continuity → Replace sidestand relay.

No Continuity ↓

*

*

6. CHECK: Main switch

- Disconnect main switch coupler.
- Connect Pocket Tester to main switch leads (Brown, Red).
- Turn main switch to "ON" position and check it for continuity.

No Continuity → Replace main switch.

Continuity

7. CHECK: "ENGINE STOP" switch

- Disconnect handlebar switch (Right) leads.
- Connect Pocket Tester to handlebar switch leads. (Red/White, Red/White).
- Turn "ENGINE STOP" switch to "RUN" position.

No Continuity → Replace handlebar switch.

Continuity

8. CHECK: Sidestand switch

- Disconnect sidestand switch leads.
- Connect Pocket Tester to sidestand switch leads.
- Sidestand is up and check sidestand switch for continuity.

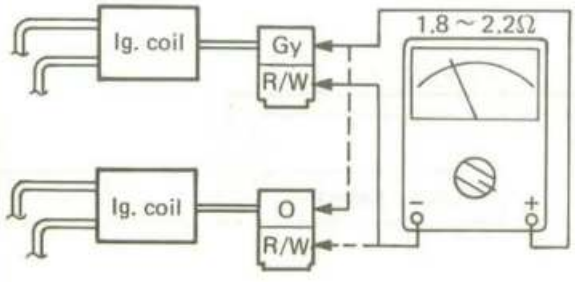
No Continuity → Replace sidestand switch.

Continuity

9. CHECK: Ignition coil resistance

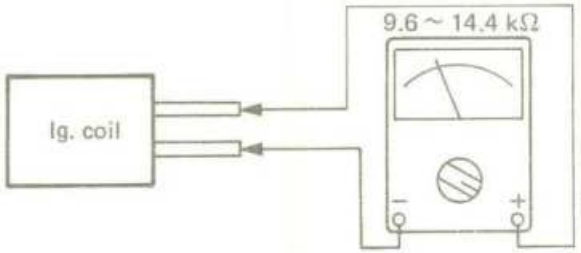
Primary coil resistance:

- Disconnect ignition coil leads.
- Connect Pocket Tester to ignition coil leads.



Out of specifications → Replace ignition coil(s).

Secondary coil resistance:
- Connect Pocket Tester to spark plug leads.

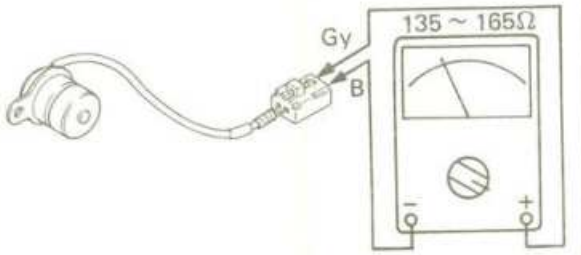


OK

10. CHECK: Pickup coil resistance

Pickup coil resistance:
- Disconnect pickup coil leads
- Connect Pocket Tester to pickup coil leads

Out of specification → Replace pickup coil.



OK

11. CHECK: Entire ignition system for connections.

Poor connection → Correct.

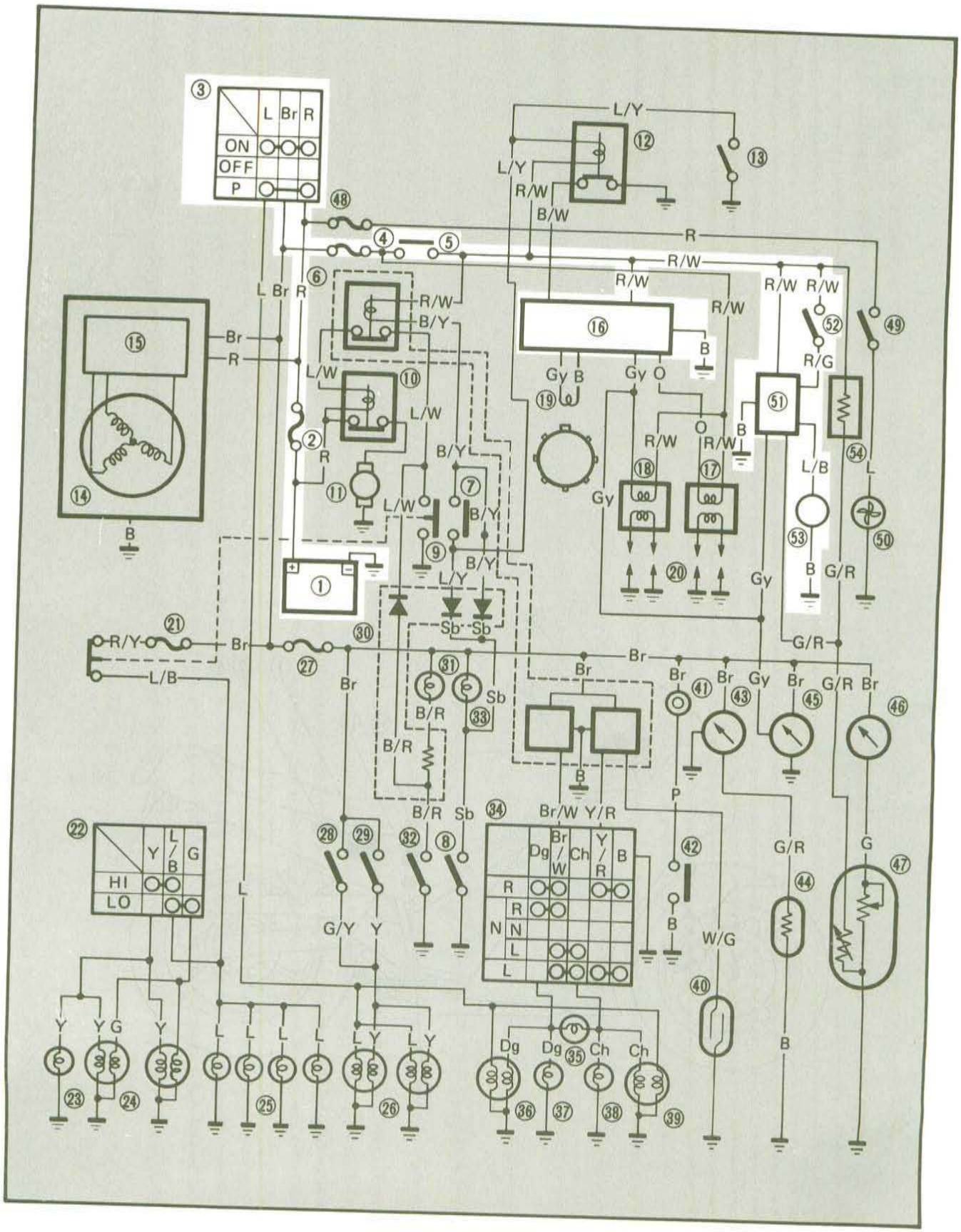
OK

Ignitor unit is faulty, replace it.

— MEMO —

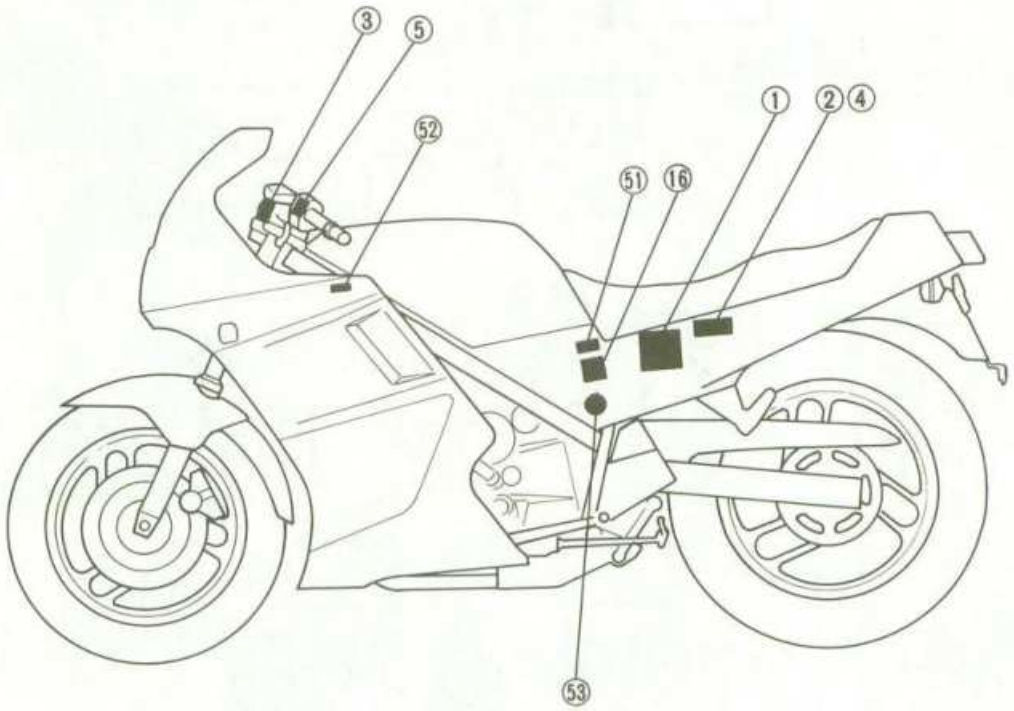
FUEL PUMP SYSTEM

CIRCUIT DIAGRAM



① Battery
② Main fuse
③ Main switch
④ Ignition fuse
⑤ "ENGINE STOP" switch
⑯ Ignitor unit
⑤① Pump relay
⑤② "FUEL" (Reserve) switch
⑤③ Fuel pump

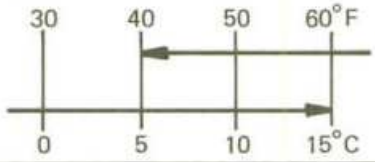
NOTE:
For the colors codes, refer to 26.



APPENDICES

SPECIFICATIONS

GENERAL SPECIFICATIONS

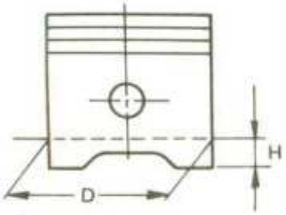
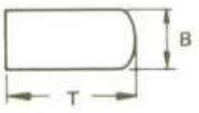
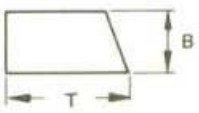
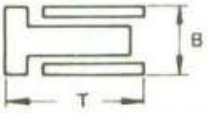
Model	FZ700T/TC
Model Code Number Engine Starting Number Vehicle Identification Number	2KT (FZ700T)/2KU (FZ700TC) 2KT-000101/2KU-000101 JYA2KT00 * HZ000101/ JYA2KU00 * HA000101
Dimensions: Overall Length Overall Width Overall Height Seat Height Wheelbase Minimum Ground Clearance	 2,175 mm (85.6 in) 755 mm (29.7 in) 1,200 mm (47.2 in) 800 mm (31.5 in) 1,495 mm (58.9 in) 145 mm (5.71 in)
Basic Weight: Weight Oil and Full-Fuel Tank	 229 kg (505 lb)
Minimum Turning Radius:	3,500 mm (138 in)
Engine: Engine Type Cylinder Arrangement Displacement Bore x Stroke Compression Ratio Compression Pressure Starting System	 Liquid cooled 4-stroke gasoline, DOHC Parallel, 4-cylinder, Forward inclined 697 cm^3 (42.5 cu.in) 68 x 48 mm (2.68 x 1.89 in) 11.2 : 1 1,100.0 kPa (11.0 kg/cm^2, 156 psi)/4,000 r/min 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 With Oil Filter Replacement Total Amount	 2.70 L (2.38 Imp qt, 2.85 US qt) 3.00 L (2.6 Imp qt, 3.1 US qt) 3.50 L (3.1 Imp qt, 3.7 US qt)
Coolant Total Amount: (Including All Routes)	 2.59 L (2.28 Imp qt, 2.74 US qt)
Air Filter:	Dry type element
Fuel: Type Tank Capacity	 Regular gasoline 21.0 L (4.62 Imp gas, 5.55 US gal)
Carburetor: Type/Manufacturer	 BDS34 x 4/MIKUNI

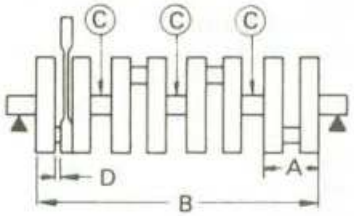
Model	FZ700T/TC	
Spark Plug:		
Type/Manufacturer	DP8EA-9/NGK, X24EP-U9/NIPPONDENSO	
Gap	0.8 ~ 0.9 mm (0.03 ~ 0.04 in)	
Clutch Type:	Wet, multiple-disc	
Transmission:		
Primary Reduction System	Spar gear	
Primary Reduction Ratio	91/48 (1.896)	
Secondary Reduction System	Chain Drive	
Secondary Reduction Ratio	46/16 (2.875)	
Transmission Type	Constant mesh, 6-speed	
Operation	Left foot operation	
Gear Ratio:		
1st	37/13 (2.846)	
2nd	35/16 (2.188)	
3rd	32/18 (1.778)	
4th	30/20 (1.500)	
5th	28/22 (1.273)	
6th	26/24 (1.083)	
Chassis:		
Frame Type	Double cradle	
Caster Angle	25.5°	
Trail	92 mm (3.6 in)	
Tire:		
Type	Tubeless	
Size (F)	120/80 V16-V240	
Size (R)	130/80 V18-V240	
Tire Pressure (Cold tire):		
Basic Weight:		
With Oil and Full Fuel Tank	229 kg (505 lb)	
Maximum Load *	181 kg (399 lb)	
Cold Tire Pressure	Front	Rear
Up to 90 kg (198 lb) Load *	200 kPa (2.0 kg/cm², 28 psi)	230 kPa (2.3 kg/cm², 32 psi)
90 kg (198 lb) ~ Maximum Load *	230 kPa (2.3 kg/cm², 32 psi)	290 kPa (2.9 kg/cm², 42 psi)
High Speed Riding	230 kPa (2.3 kg/cm², 32 psi)	250 kPa (2.5 kg/cm², 36 psi)
* Load is the total weight of cargo, rider, passenger, and accessories.		
Brake:		
Front Brake Type	Dual disc brake	
Operation	Right hand operation	
Rear Brake Type	Single disc brake	
Operation	Right foot operation	
Suspension:		
Front Suspension	Telescopic fork	
Rear Suspension	Swingarm (Link suspension)	
Shock Absorber:		
Front Shock Absorber	Coil spring/Oil damper	
Rear Shock Absorber	Coil-gas, spring/Oil damper	

Model	FZ700T/TC
Wheel Travel:	
Front Wheel Travel	140 mm (5.5 in)
Rear Wheel Travel	132 mm (5.21 in)
Electrical:	
Ignition System	T.C.I. (Digital)
Generator System	AC generator
Battery Type or Model	YB14L
Battery Capacity	12V 14AH
Headlight Type:	Bulb type (Quartz bulb)
Bulb Wattage x Quantity:	
Headlight	12V, 35W/35W x 2
Tail/Brake Light	12V, 8W/27W x 2
Flasher Light	12V, 27W x 4
Meter Light	12V, 3.4W x 4
Licence Light	12V, 8W x 2
Indicator Light:	
Wattage x Quantity:	
"NEUTRAL"	12V, 3.4W x 1
"HIGH BEAM"	12V, 3.4W x 1
"TURN"	12V, 3.4W x 1
"OIL"	12V, 3.4W x 1

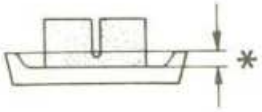
MAINTENANCE SPECIFICATIONS

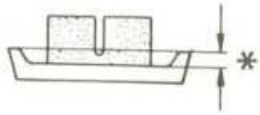
Engine

Model	FZ700T/TC
Piston:	
Piston Clearance	0.06 ~ 0.08 mm (0.002 ~ 0.003 in)
<Limit>	0.10 mm (0.004 in)
Piston Size "D"	67.925 ~ 67.940 mm (2.674 ~ 2.675 in)
Measuring Point "H"	3 mm (0.12 in)
	
Oversize 2nd	68.50 mm (2.677 in)
Oversize 4th	69.00 mm (2.717 in)
Piston Ring:	
Top Ring:	
Type	Barrel
	
Dimensions (B x T)	0.8 x 2.6 mm (0.032 x 0.102 in)
End Gap (Installed)	0.30 ~ 0.45 mm (0.012 ~ 0.018 in)
Side Clearance (Installed)	0.03 ~ 0.07 mm (0.001 ~ 0.003 in)
2nd Ring:	
Type	Plain (Taper face)
	
Dimensions (B x T)	1.0 x 2.8 mm (0.040 x 0.110 in)
End Gap (Installed)	0.20 ~ 0.35 mm (0.008 ~ 0.014 in)
Side Clearance (Installed)	0.03 ~ 0.07 mm (0.001 ~ 0.003 in)
Oil Ring:	
	
Dimensions (B x T)	2.0 x 2.5 mm (0.080 x 0.100 in)
End Gap (Installed)	0.2 ~ 0.7 mm (0.008 ~ 0.030 in)

Model		FZ700T/TC
Crankshaft: 		
Crank Width	"A"	55.7 ~ 59.5 mm (2.193 ~ 2.343 in)
Assembly Width	"B"	339.8 ~ 340.2 mm(13.378 ~ 13.394 in)
<Runout Limit>	"C"	0.03 mm (0.001 in)
Big End Side Clearance	"D"	0.160 ~ 0.262 mm (0.006 ~ 0.010 in)
Journal Oil Clearance		0.040 ~ 0.064 mm (0.002 ~ 0.003 in)
Bearing Color Code		1. Blue 2. Black 3. Brown 4. Green 5. Yellow
Clutch:		
Friction Plate Thickness		2.9 ~ 1.3 mm (0.11 ~ 0.05 in)
Quantity		8 pcs.
<Wear Limit>		2.8 mm (0.11 in)
Clutch Plate Thickness		1.9 ~ 2.1 mm (0.07 ~ 0.08 in)
Quantity		7 pcs.
<Warp Limit>		0.1 mm (0.004 in)
Clutch Spring Free Length		55.5 mm (2.19 in)
Quantity		6 pcs.
Minimum Length		54.0 mm (2.13 in)
Push Rod Bending Limit		0.3 mm (0.01 in)
Clutch Release Method		Hydraulic inner push
Carburetor:		
ID Mark		2KT00/2KU00
Main Jet	(M.J.)	No. 1, 4.....#105 No. 2, 3.....#100
Main Air Jet	(M.A.J.)	#65
Jet Needle	(J.N.)	No. 1, 4.....5CDZ4 No. 2, 3.....5CEZ2
Needle Jet	(N.J.)	Y-0
Pilot Air Jet	(P.A.J.)	#120
Pilot Jet	(P.J.)	#15
Pilot Screw	(P.S.)	Preset
Valve Seat Size	(V.S.)	ϕ1.2
Starter Jet	(G.S.1.)	#35
	(G.S.2.)	ϕ0.7
Fuel Level	(F.L.)	7.3 ~ 9.3 mm (0.29 ~ 0.37 in)
Engine Idling Speed		950 ~ 1,050 r/min
Vacuum Pressure at Idling Speed		Above 190 mmHg (7.48 inHg)
Vacuum Synchronous Difference		Below 10 mmHg (0.394 inHg)

Chassis

Model	FZ700T/TC
Front Suspension:	
Front Fork Travel	140 mm (5.51 in)
Front Spring Free Length	559 mm (22 in)
< Limit >	552.9 mm (21.77 in)
Spring Rate	
K1	4.9 N/mm (0.5 kg/mm, 28 lb/in)
K2	7.8 N/mm (0.8 kg/mm, 44.8 lb/in)
Stroke	
K1	0 ~ 80 mm (0 ~ 3.15 in)
K2	80 ~ 140 mm (3.15 ~ 5.51 in)
Optional Spring	No
Oil Capacity	404 cm^3 (14.2 Imp oz, 13.7 US oz)
Oil Level	142 mm (5.59 in) (From top inner tube fully compressed without spring.)
Oil Grade	Yamaha fork oil 10wt or equivalent
Rear Suspension:	
Shock Absorber Travel	50 mm (1.97 in)
Spring Free Length	202 mm (7.95 in)
Fitting Length	190 mm (7.48 in)
Spring Rate	147 N/mm (15 kg/mm, 840 lb/in)
Stroke	0 ~ 50 mm (0 ~ 1.97 in)
Optional Spring	No.
Enclosed Gas	1,200.0 kPa (12 kg/cm^2, 171 psi)
Drive Chain:	
Type/Manufacturer	50VA/DID
No. of Links	112 Links
Chain Slack	15 ~ 20 mm (0.6 ~ 0.8 in)
Front Disc Brake:	
Type	Dual
Disc Outside Dia. x Thickness	267 x 5.0 mm (10.51 x 0.20 in)
Pad Thickness	
Inner	5.5 mm (0.22 in)
< Limit >*	0.5 mm (0.02 in)
Pad Thickness	
Outer	5.5 mm (0.22 in)
< Limit >*	0.5 mm (0.02 in)
	
Master Cylinder Inside Dia.	15.80 mm (0.62 in)
Caliper Cylinder Inside Dia.	45.4 mm (1.79 in)
Brake Fluid Type	DOT #3

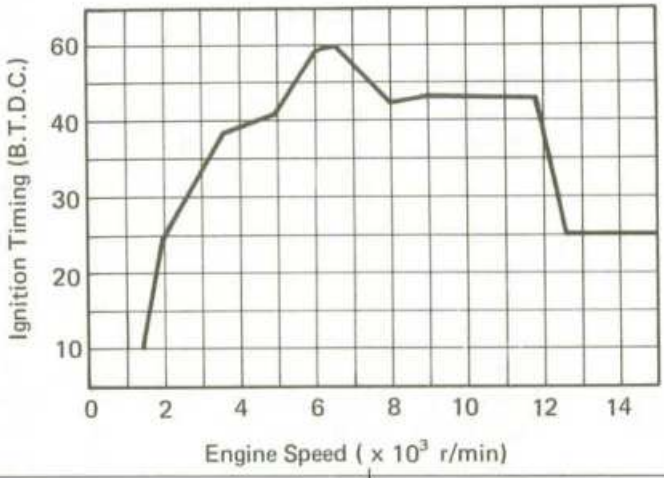
Model		FZ700T/TC
Rear Disc Brake:		
Type		Single
Disc Outside Dia. x Thickness		267.0 x 5.0 mm (10.51 x 0.20 in)
Pad Thickness	Inner	5.5 mm (0.22 in)
<Limit>*		0.5 mm (0.02 in)
Pad Thickness	Outer	5.5 mm (0.22 in)
<Limit>*		0.5 mm (0.02 in)
		
Master Cylinder Inside Dia.		14.0 mm (0.55 in)
Caliper Cylinder Inside Dia.		42.8 mm (1.69 in)
Brake Fluid Type		DOT #3

TIGHTENING TORQUE

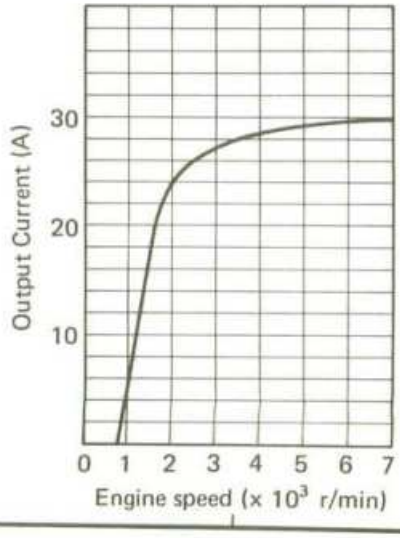
Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m·kg	ft·lb	
Front Axle	Bolt	M14 x 1.5	1	58	5.8	42	
Front Axle Pinch	Bolt/Nut	M8 x 1.25	2	20	2.0	14	
Rear Axle	Bolt/Nut	M16 x 1.5	1	107	10.7	77.4	
Steering Crown-Fork	Bolt	M8 x 1.25	2	20	2.0	14	
Steering Stam	Nut	M22 x 1.0	1	110	11.0	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 Blead (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	Use new lock washer
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-Fork	Bolt	M8 x 1.25	2	20	2.0	14	
Handlebar-Steering Crown	Bolt	M6 x 1.0	2	9	0.9	6.5	
Handlebar End Grip	Special	M16 x 1.5	2	26	2.6	19	
Engine Mount (Front Upper)	Bolt/Nut	M10 x 1.25	1	55	5.5	40	
Engine Mount (Front Lower)	Bolt/Nut	M10 x 1.25	2	55	5.5	40	
Engine Mount (Rear Upper)	Bolt	M10 x 1.25	1	55	5.5	40	
Engine Mount (Rear Lower)	Bolt/Nut	M10 x 1.25	1	55	5.5	40	
Downtube Frame	Bolt/Nut	M8 x 1.25	8	28	2.8	20	
Pivot Shaft	Bolt/Nut	M14 x 1.5	1	90	9.0	65	
Relay Arm-Frame	Bolt/Nut	M10 x 1.25	1	48	4.8	35	
Arm-Rear Arm	Bolt/Nut	M12 x 1.25	1	74	7.4	53	
Arm-Relay Arm	Bolt/Nut	M12 x 1.25	1	74	7.4	53	
Shock Absorber-Relay Arm	Bolt/Nut	M17 x 1.25	1	40	4.0	29	
Shock Absorber (Upper)	Bolt/Nut	M12 x 1.25	1	42	4.2	30	
Bracket Footrest-Frame	Bolt	M8 x 1.25	2	28	2.8	20	
Footrest-Bracket Footrest	Bolt	M10 x 1.25	2	42	4.2	30	
Muffler/Rear Footrest-Frame	Bolt	M10 x 1.25	2	42	4.2	30	
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	
Tension Bar	Bolt/Nut	M8 x 1.25	2	28	2.8	20	

Electrical

Model	FZ700T/TC
Voltage:	12V
Ignition System:	
Ignition Timing (B.T.D.C.)	5° at 1,000 r/min
Advanced Timing (B.T.D.C.)	45°/6,500 rpm
Advancer Type	Electrical (Digital), Vacuum



TCI:	
Pickup Coil Resistance (Color)	135 ~ 165Ω at 20°C (68°F) (Gray – Black)
TCI Unit-Model/Manufacturer	TID14-58/HITACHI
Ignition Coil:	
Model/Manufacturer	CM12-31/HITACHI
Primary Winding Resistance	1.8 Ω ~ 2.2 Ω at 20°C (68°F)
Secondary Winding Resistance	9.6 ~ 14.4 kΩ at 20°C (68°F)
Spark Plug cap:	
Type	Resin
Resistance	10kΩ
Charging System/Type:	AC generator
AC Generator:	
Model/Manufacturer	B3G/NIPPONDENSO
Nominal Output	12V, 25A at 5,000 r/min



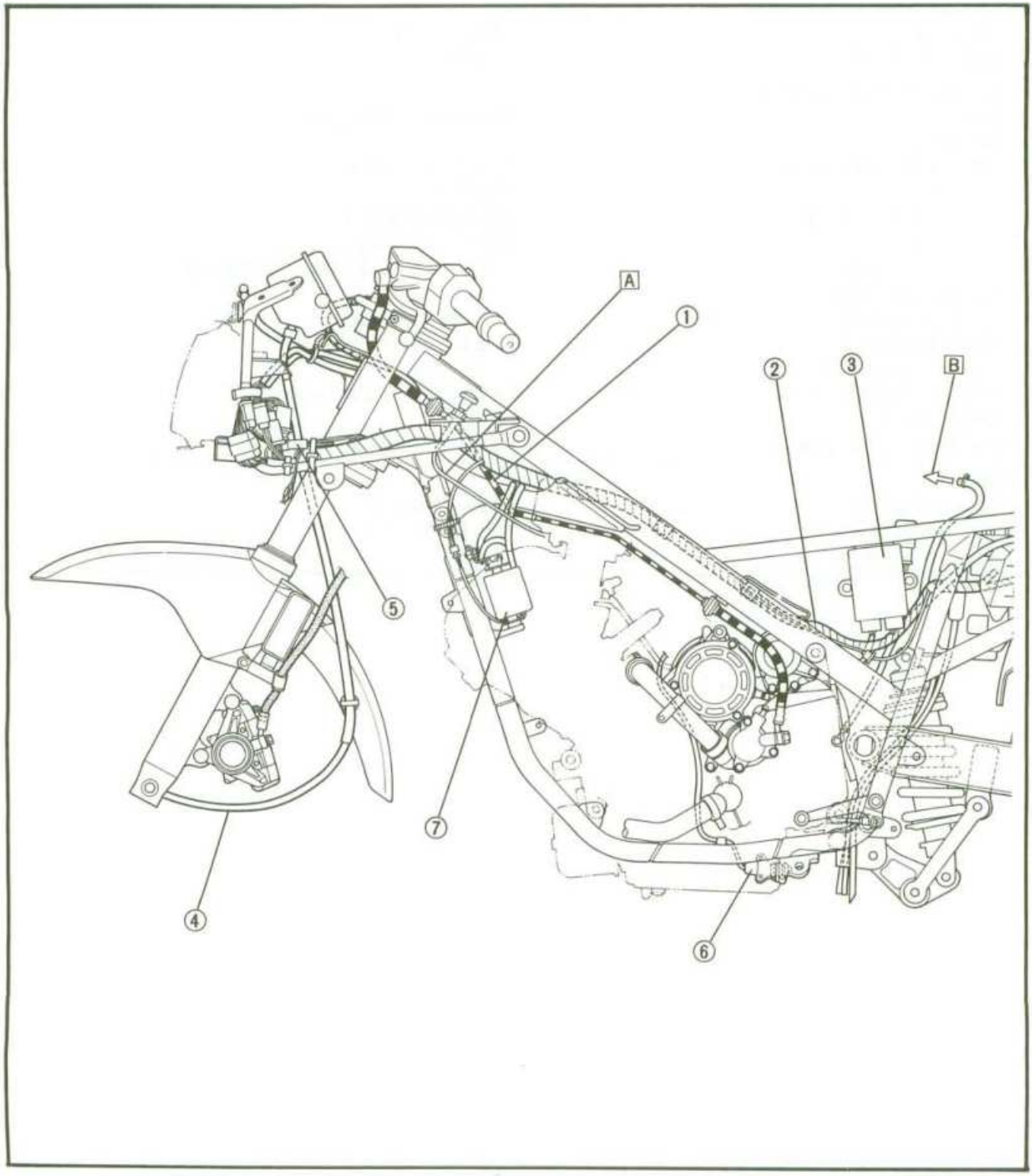
SPECIFICATIONS

Model	FZ700T/TC
Generator Assembly:	
Stator Coil Resistance	0.17 ~ 0.18Ω at 20°C (68°F)
Field (Rotor) Coil Resistance	3.8 ~ 4.2 Ω at 20°C (68°F)
Brush Overall Length	13.7 mm (0.54 in)
< Limit >	4.7 mm (0.19 in)
Spring Pressure	230 ~ 330 g (8.12 ~ 11.65 oz)
Voltage Regulator:	
Type	Field Control Type
No Load Regulated Voltage	14.2 ~ 14.8 V
Battery:	
Capacity	12V, 14AH
Specific Gravity	1.280
Electrical Starter System:	
Type	Constant mesh type
Starter Motor:	
Model/Manufacturer	SM-8/MITSUBA
Output	0.6 kW
Brush-Overall Length	12 mm (0.47 in)
< Limit >	5 mm (0.20 in)
Spring Pressure	680 ~ 920 g (23.98 ~ 32.48 oz)
Commutator Dia.	28 mm (1.1 in)
< Wear Limit >	27 mm (1.06 in)
Mica Undercut	0.8 mm (0.03 in)
Starter Switch:	
Model/Manufacturer	A104-128/HITACHI
Amperage Rating	100A
Coil Winding Resistance	3.9 ~ 4.7Ω at 20°C (68°F)
Horn:	
Type x Quantity	Plain type x 1
Model/Manufacturer	CF-12/NIKKO
Maximum Amperage	2.5A

CABLE ROUTING (1)

① Clutch hose
② Wire harness
③ Ignitor unit
④ Speedometer cable
⑤ Diode
⑥ Sidestand switch
⑦ Ignition coil

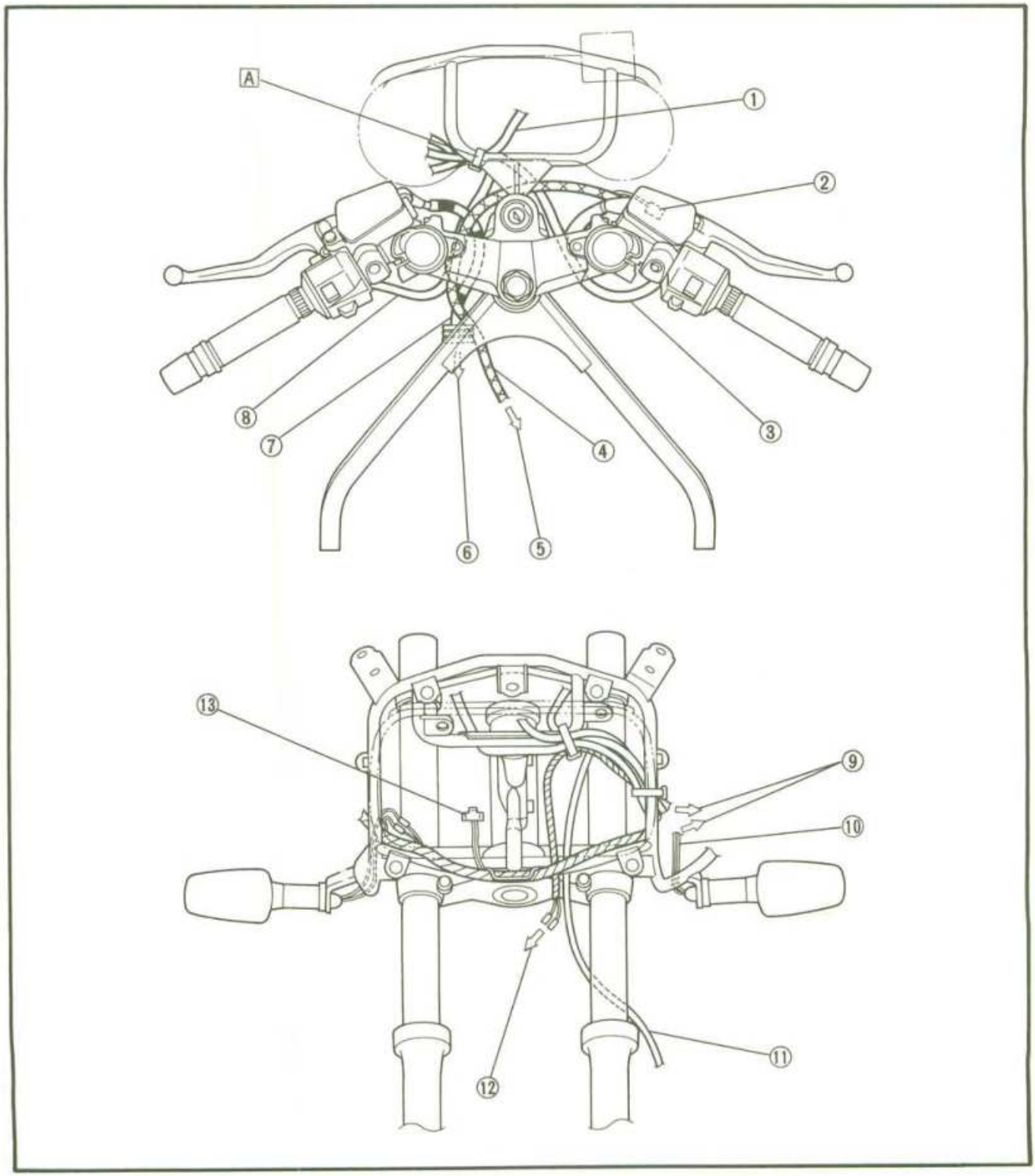
[A] Pass the choke cable along under the side member.
[B] Fuel tank overflow hose (to fuel tank) Pass the fuel tank overflow hose front of the battery box.



CABLE ROUTING (2)

① Meter unit lead
② Brake switch coupler
③ Handlebar switch lead (Right)
④ Throttle cable
⑤ To carburetor
⑥ To engine
⑦ Clutch hose
⑧ Handlebar switch lead (Left)
⑨ To wire harness
⑩ Flasher light leads (Left)
⑪ Speedometer cable
⑫ To horn
⑬ Headlight coupler

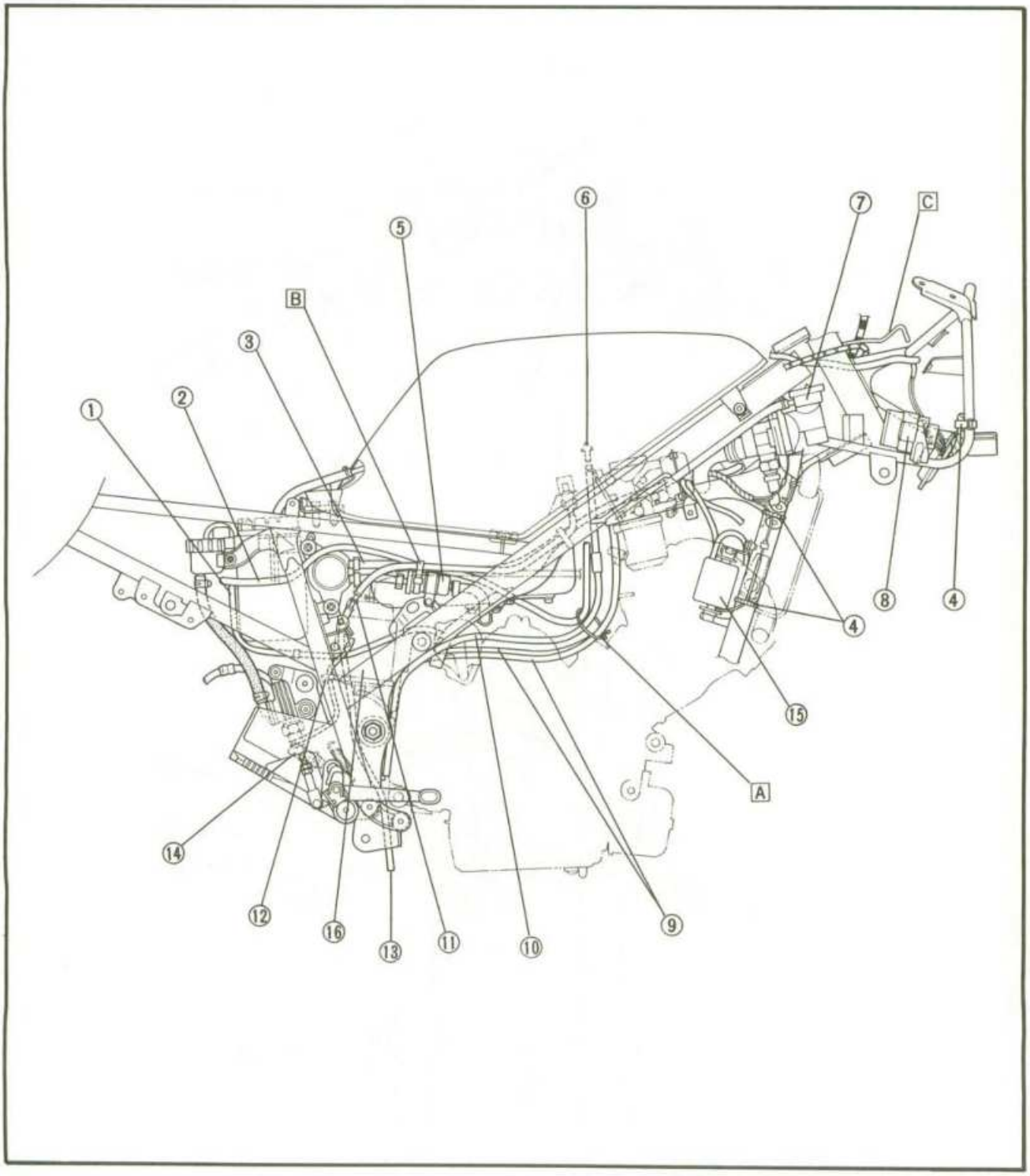
[A] Clamp the handlebar switch (Left), headlight, and meter unit leads to the headlight stay with band.



CABLE ROUTING (3)

① Ground lead
② Radiator overflow hose
③ Fuel hose
④ Band
⑤ Fuel filter
⑥ To air cleaner
⑦ Thermostatic valve
⑧ Relay assembly
⑨ Carburetor air vent hose
⑩ Air cleaner breather hose
⑪ Joint
⑫ Clamp the brake switch lead
⑬ Fuel tank breather hose
⑭ Rear brake switch
⑮ Ignition coil
⑯ Canister (For California only)

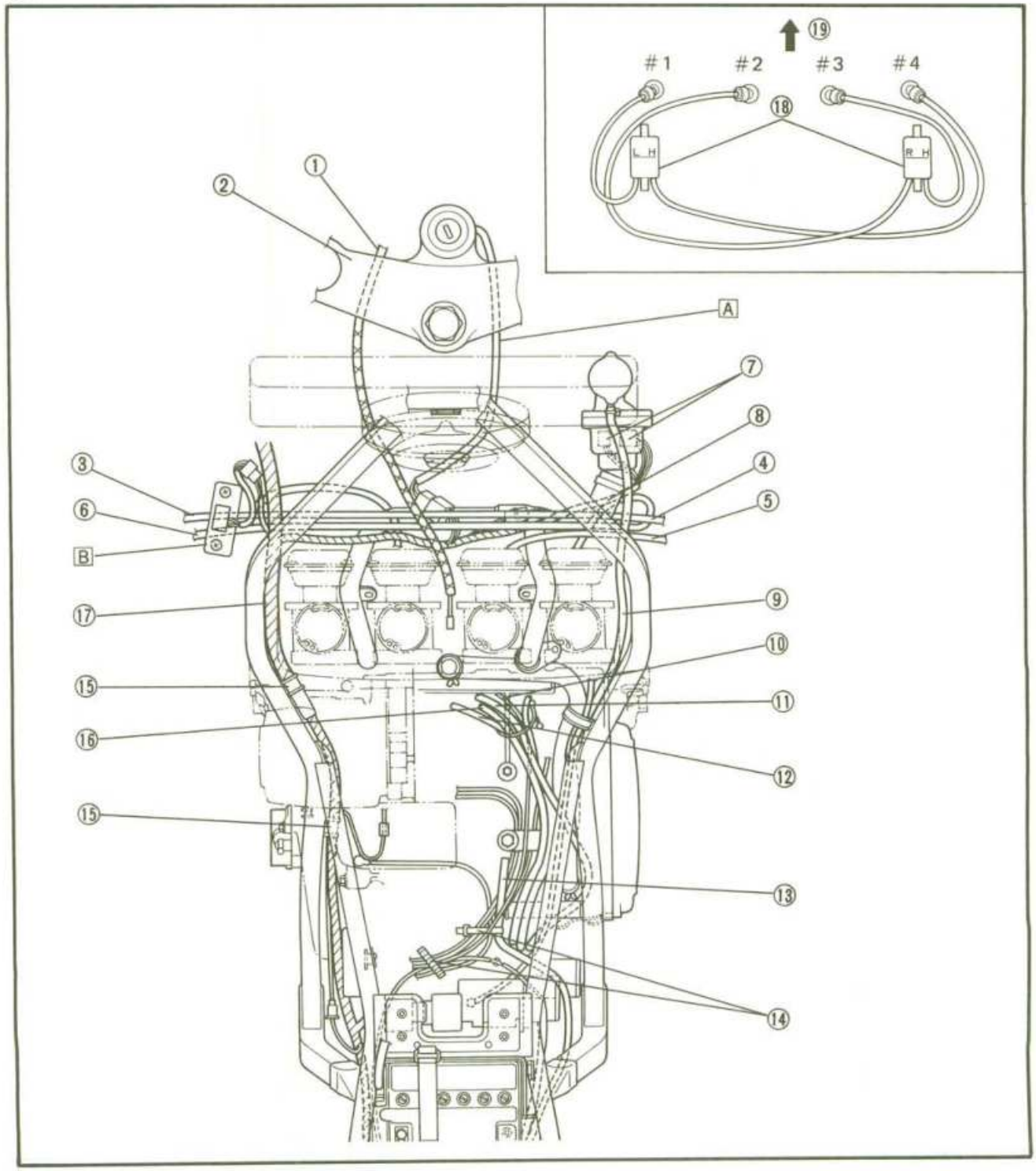
[A] Clamp five lines (oil delivery pipe, two carburetor air vent hoses, air cleaner breather hose, and fuel hose)
[B] Clamp the fuel hose and radiator overflow hose to the fuel filter with band.
[C] Pass only the throttle cable through the cable holder.



CABLE ROUTING (4)

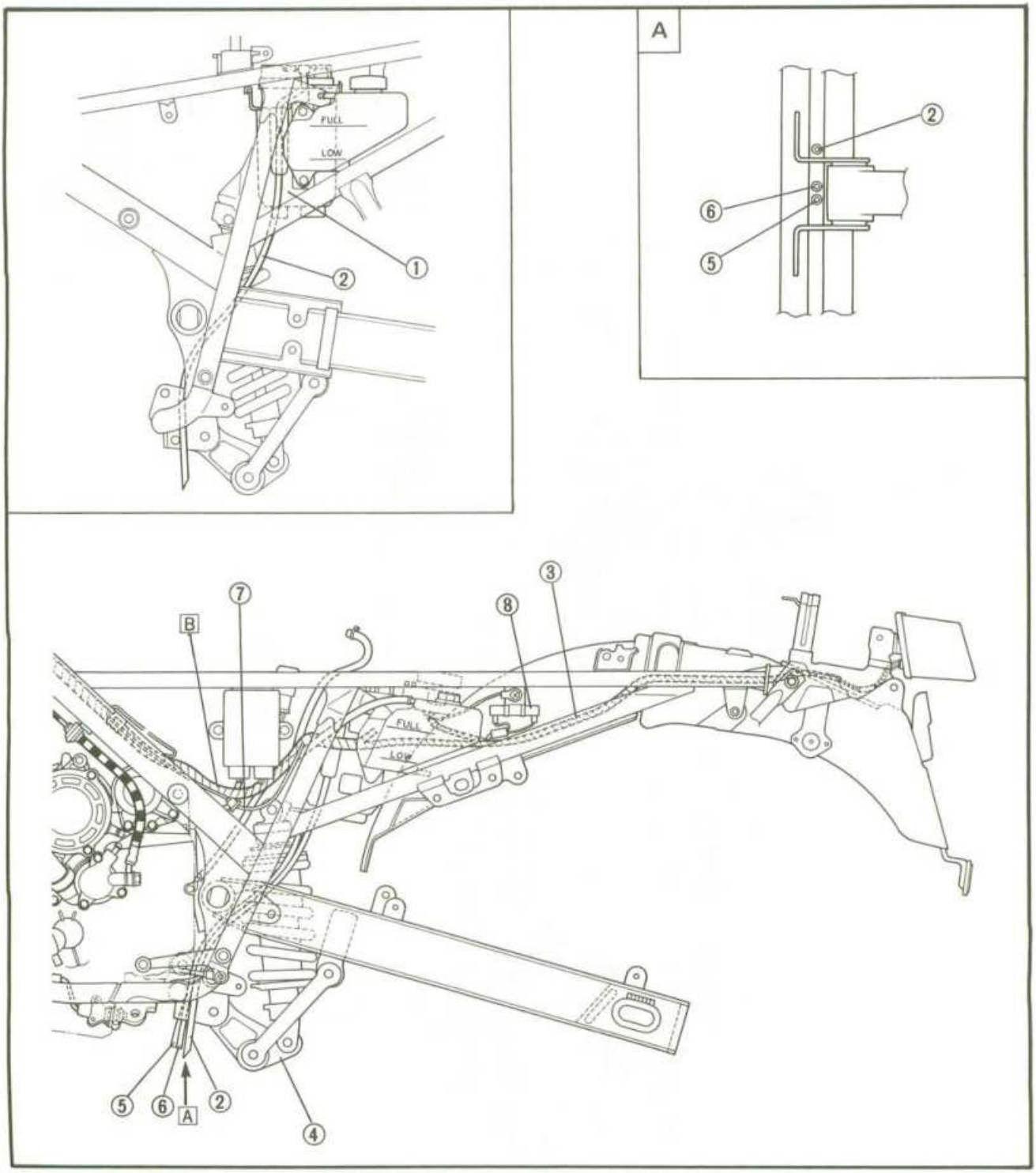
① Throttle cable
② Handle crown
③ Spark plug lead 1
④ Spark plue lead 2
⑤ Spark plug lead 3
⑥ Spark plug lead 4
⑦ Thermostatic switch coupler
⑧ Fan motor lead
⑨ Radiator over flow hose
⑩ Sidestand switch
⑪ Air cleaner drain pipe
⑫ Carburetor air vent hose
⑬ Ground lead
⑭ Band
⑮ Clamp
⑯ Fuel hose
⑰ Wire harness
⑱ Ignition coil
⑲ Front

[A] Pass the main switch lead through under the handle crown, between tank rail and side member then connect the couplers over the radiator.
[B] Pass the fuel reserve switch lead through between the tank rail and side member.



CABLE ROUTING (5)

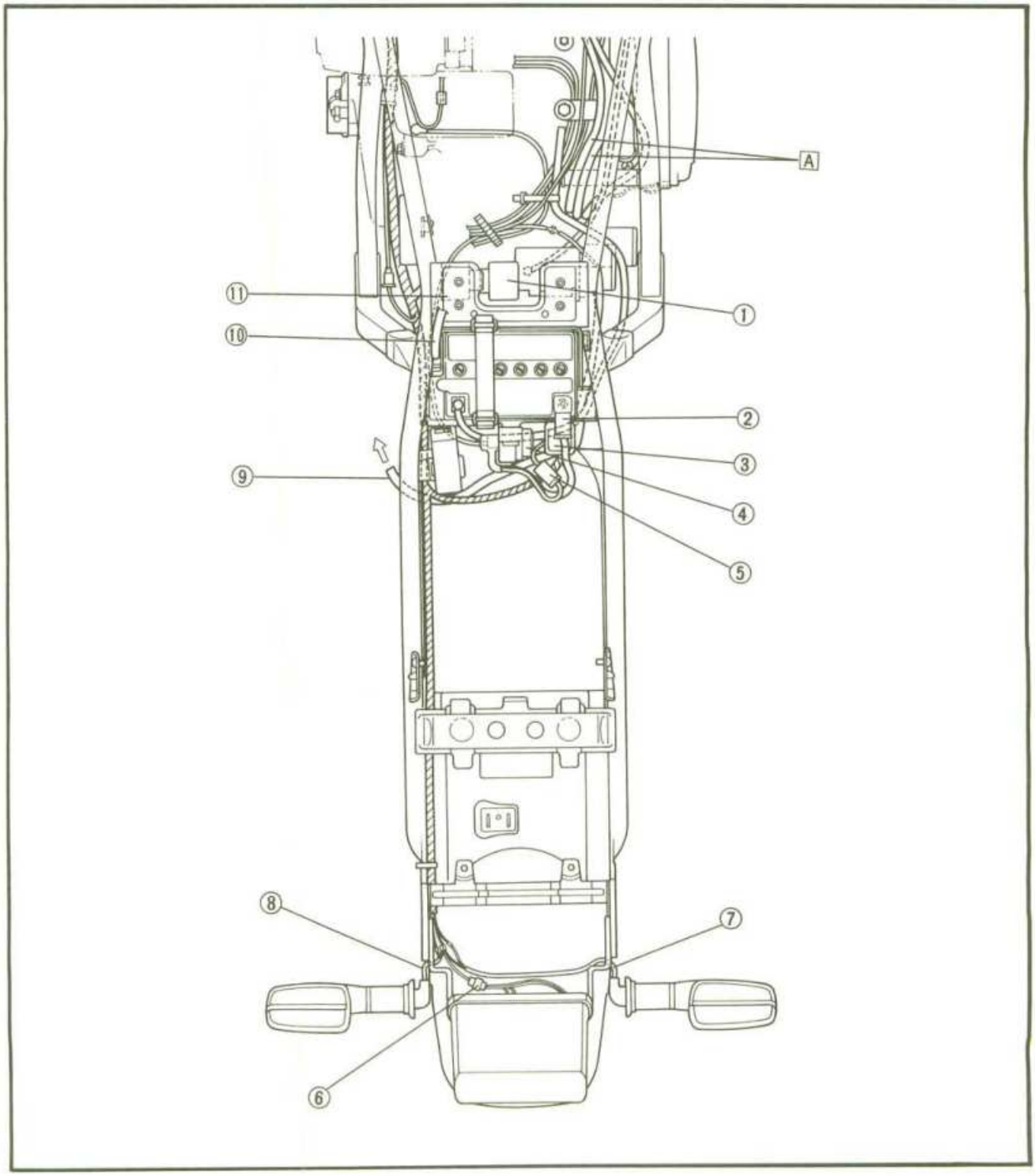
① Battery
② Battery breather hose
③ Wire harness
④ Relay arm
⑤ Fuel tank breather hose
⑥ Fuel tank cap drain hose
⑦ Fuel sender lead
⑧ Resistor
A "A" VIEW
B Pass the ignitor unit lead over the wire harness.



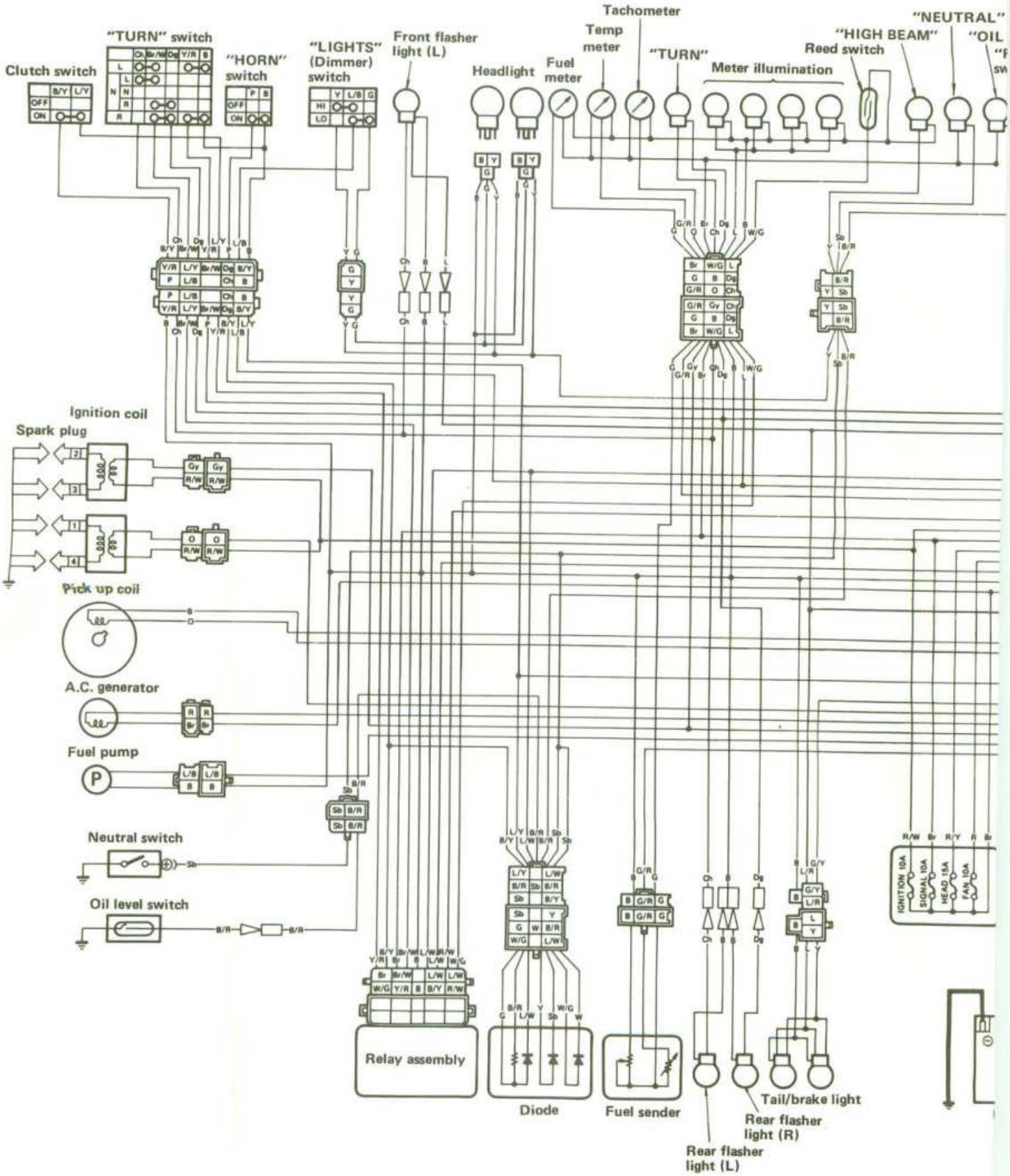
CABLE ROUTING (6)

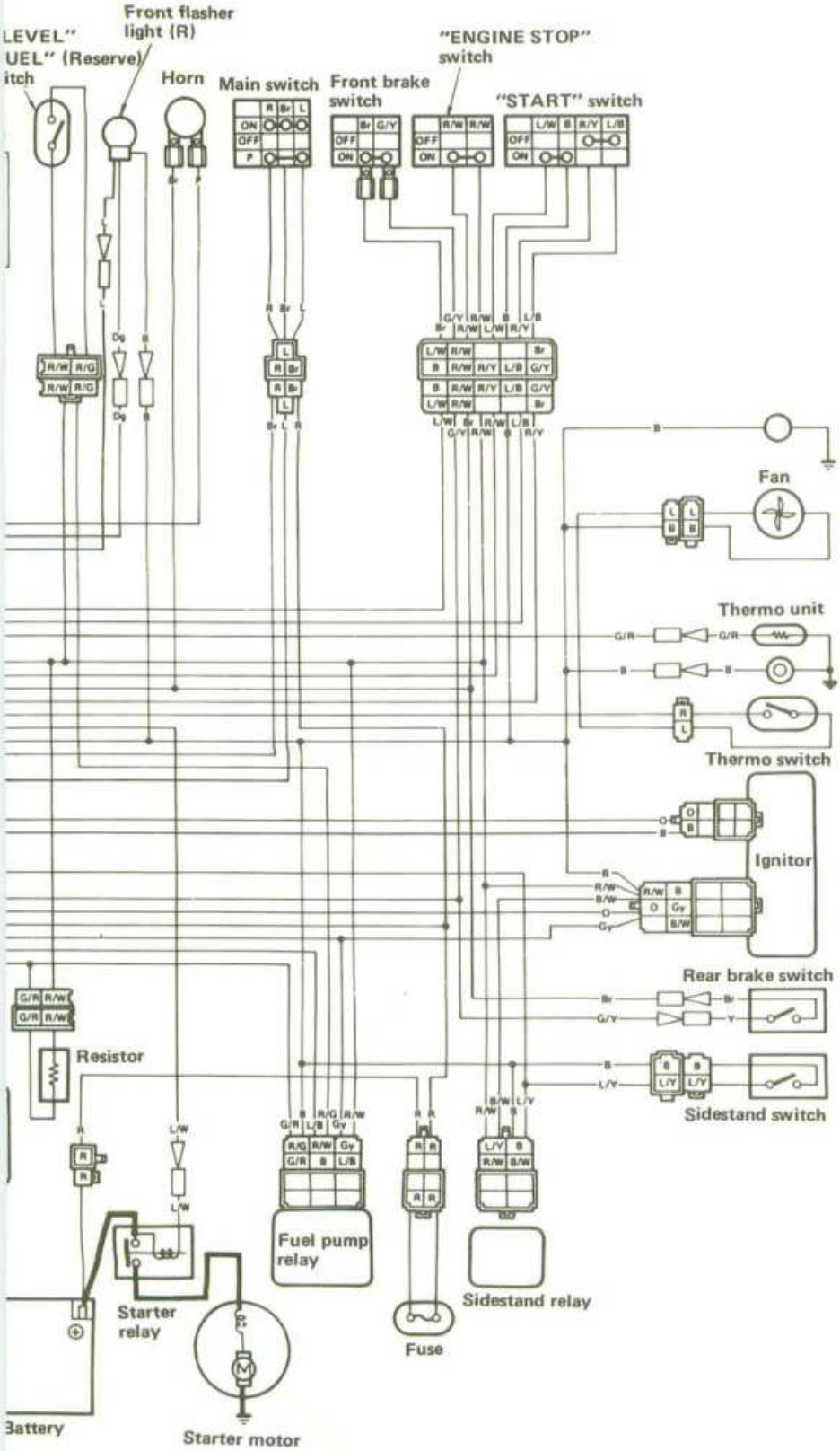
① Sidestand relay
② Battery positive lead
③ Main fuse coupler
④ Starter relay
⑤ Main fuse coupler
⑥ Tail light coupler
⑦ Flasher light lead (Right)
⑧ Flasher light lead (Left)
⑨ To coolant reservoir tank
⑩ Fuel tank overflow hose
⑪ Fuel pump relay

[A] Pass the carburetor air vent pipe between the engine and swingarm pivot.



FZ700T/700TC WIRING DIAGRAM

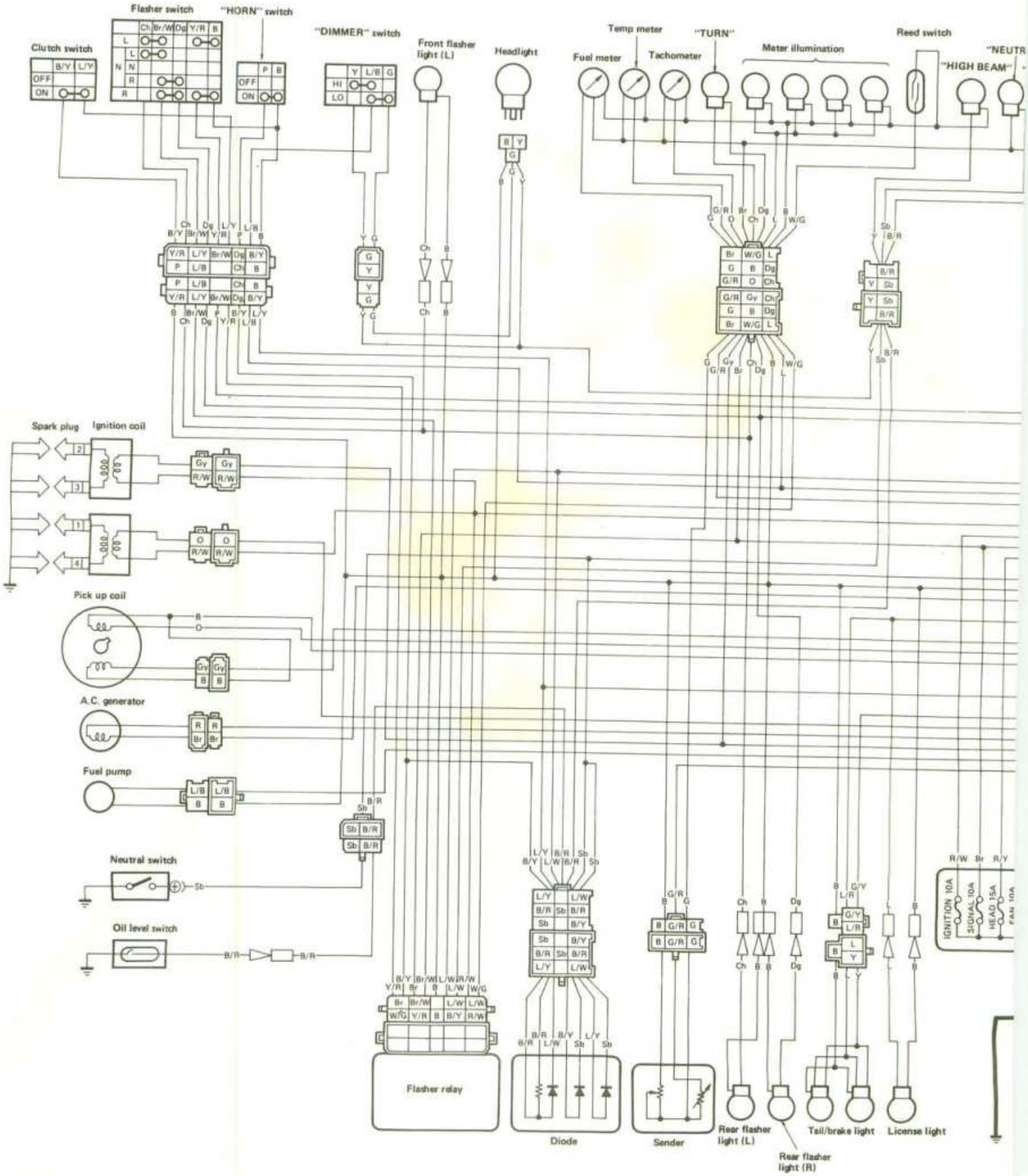




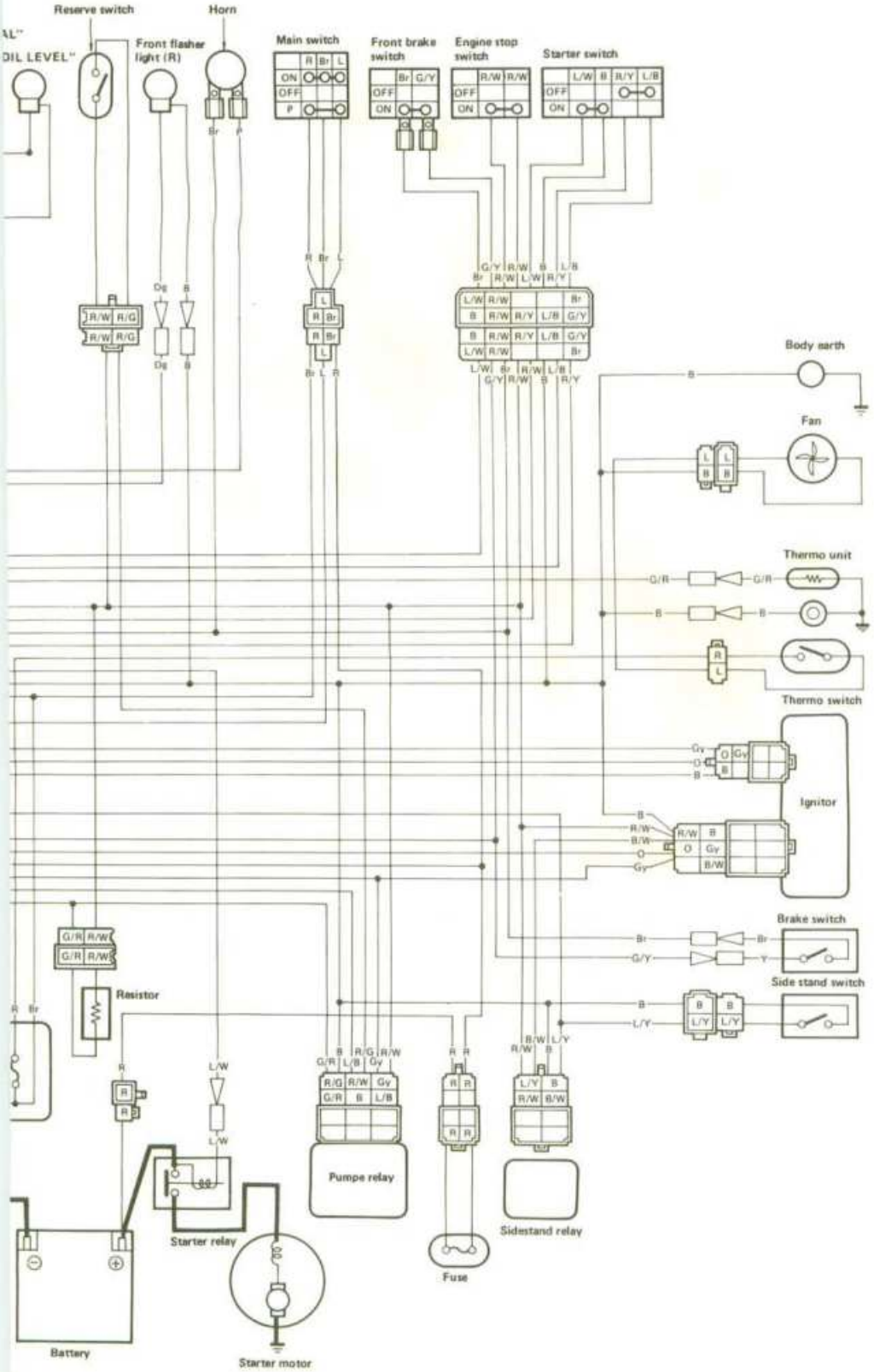
COLOR CODE

B . . . . . .Black
R . . . . . .Red
L . . . . . .Blue
G . . . . . .Green
O . . . . . .Orange
Y . . . . . .Yellow
P . . . . . .Pink
W . . . . . .White
Br. . . . . .Brown
Ch . . . . . .Chocolate
Sb . . . . . .Sky Blue
Dg . . . . . .Dark Green
Gy . . . . . .Gray
L/B. . . . . .Blue/Black
L/Y . . . . .Blue/Yellow
L/W . . . . .Blue/White
L/R . . . . .Blue/Red
Y/R . . . . .Yellow/Red
R/W . . . . .Red/White
R/Y . . . . .Red/Yellow
R/G . . . . .Red/Green
B/Y . . . . .Black/Yellow
B/R . . . . .Black/Red
B/W . . . . .Black/White
W/G . . . . .White/Green
Br/W. . . . .Brown/White
G/R . . . . .Green/Red
G/Y . . . . .Green/Yellow

FZ750N WIRIN



G DIAGRAM



COLOR CODE

L . . . . . .Blue
R . . . . . .Red
G . . . . . .Green
B . . . . . .Black
Y . . . . . .Yellow
P . . . . . .Pink
W . . . . . .White
O . . . . . .Orange
Dg . . . . . .Dark green
Gy . . . . . .Gray
Br. . . . . .Brown
Ch . . . . . .Chocolate
Sb . . . . . .Sky blue
R/W . . . . .Red/White
R/Y . . . . .Red/Yellow
R/G . . . . .Red/Green
L/R . . . . .Blue/Red
L/W . . . . .Blue/White
L/B. . . . . .Blue/Black
W/G . . . . .White/Green
Y/R . . . . .Yellow/Red
B/R . . . . .Black/Red
B/Y . . . . .Black/Yellow
G/Y . . . . .Green/Yellow
G/R . . . . .Green/Red
Br/W. . . . .Brown/White