

# XJR1300(S)

5EA3-SE3

## SERVICE INFORMATION

Yamaha Motor Co., Ltd.

#### FOREWORD

This service information has been prepared to introduce new service and data for the XJR1300(S) 2004. For complete service information procedures, it is necessary to use this Supplementary Service Information together with the following manual.

#### XJR1300(S) 2004 SERVICE MANUAL: 5EA3-ME3 XJR1300(L) '99 SERVICE INFORMATION: 5EA3-SE1 XJR1300(P) 2002 SERVICE INFORMATION: 5EA3-SE2

#### EAS00002

#### NOTICE

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha vehicles should have a basic understanding of mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

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

NOTE: -

Designs and specifications are subject to change without notice.

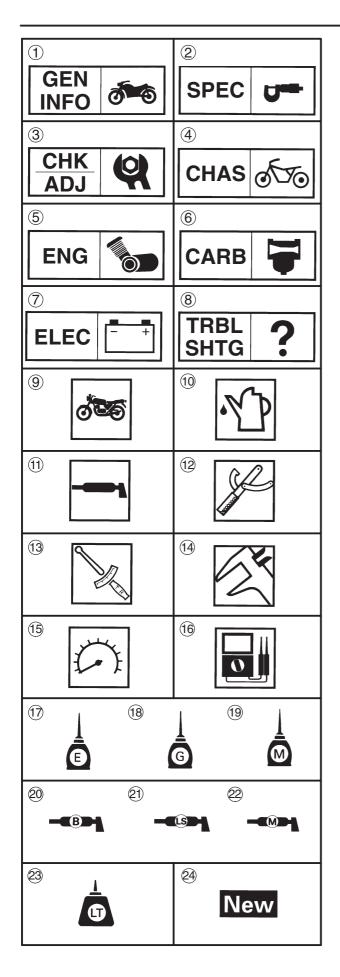
## IMPORTANT INFORMATION

Particularly important information is distinguished in this manual by the following.

- The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
- **A WARNING** Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person checking or repairing the motorcycle.

**CAUTION:** A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.

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



## SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols 1 to 8 indicate the subject of each chapter.

- (1) General information
- (2) Specifications
- (3) Periodic checks and adjustments
- (4) Chassis
- (5) Engine
- 6 Carburetor(-s)
- $\bigcirc$  Electrical system
- (8) Troubleshooting

Symbols (9) to (16) indicate the following.

- $(\underline{9})$  Serviceable with engine mounted
- 10 Filling fluid
- 1 Lubricant
- (12) Special tool
- (13) Tightening torque
- 14 Wear limit, clearance
- 15 Engine speed
- 16 Electrical data

Symbols (17) to (22) in the exploded diagrams indicate the types of lubricants and lubrication points.

- 17 Engine oil
- 18 Gear oil
- (19) Molybdenum disulfide oil
- 20 Wheel bearing grease
- 21) Lithium soap base grease
- 22 Molybdenum disulfide grease

Symbols 23 to 24 in the exploded diagrams indicate the following:

- 23 Apply locking agent (LOCTITE®)
- 24 Replace the part

#### CONTENTS

#### SPECIFICATIONS

| GENERAL SPECIFICATIONS     | 1 |
|----------------------------|---|
| ENGINE SPECIFICATIONS      | 2 |
| CHASSIS SPECIFICATIONS     | 3 |
|                            | 4 |
| ENGINE TIGHTENING TORQUES  | 4 |
| CHASSIS TIGHTENING TORQUES | 4 |
| CABLE ROUTING              | 5 |

#### PERIODIC CHECKS AND ADJUSTMENTS

| INTRODUCTION                                   | 18 |
|--|----|
| PERIODIC MAINTENANCE AND LUBRICATION INTERVALS | 18 |
| ENGINE   | 20 |
| CHECKING THE EXHAUST SYSTEM                    | 20 |

#### XJR1300(S) 2004 WIRING DIAGRAM



### **SPECIFICATIONS**

#### **GENERAL SPECIFICATIONS**

|                       | Model        | XJR1300(S)   |
|-----------------------|--------------|--|
| Model code:           |              | 5WM7 (EUR)/5WM8 (DEU)/5WM9 (AUS)                           |
| Fuel:                 |              |  |
| Туре                  |              | Regular unleaded gasoline (EUR)<br>Unleaded gasoline (AUS) |
| Tire:                 |              |  |
| Size                  | front        | 120/70ZR17 M/C (58W)                                       |
|                       | rear         | 180/55ZR17 M/C (73W)                                       |
| Manufacturer          | front        | DUNLOP   |
|                       | rear         | DUNLOP   |
| Туре                  | front        | D252FJ   |
|                       | rear         | D252J  |
| Wheel travel:         |              |  |
| Rear wheel tra        | vel          | 120 mm   |
| Bulb wattage $\times$ | quantity:    |  |
| Auxiliary light       |              | 12 V 4 W $	imes$ 1 (EUR)                                   |
| Meter light           |              | $LED \times 1$   |
| High beam ind         | icator light | 12 V 1.7 W × 1   |

#### **ENGINE SPECIFICATIONS**



#### **ENGINE SPECIFICATIONS**

| Model  |                           | Standard   | Limit |
|--|---------------------------|--|-------|
| Clutch:<br>Clutch spring height<br>Quantity                    |                           | 6.78 mm (0.27 in)<br>1 pc  | •••   |
| Carburetor:<br>I.D. mark<br>Main jet                           | (M.J)                     | 5WM7 00<br>#107.5  | •••   |
| Main air jet<br>Jet needle                                     | (M.A.J)<br>(J.N)          | #80<br>5D139   | •••   |
| Needle jet<br>Pilot jet<br>Bilot outlet                        | (N.J)<br>(P.A.J.1)        | P-OM<br>#140   | •••   |
| Pilot outlet<br>Pilot jet<br>Bypass 1                          | (P.O)<br>(P.J)<br>(B.P.1) | φ1.0<br>#15<br>φ0.9  | •••   |
| Bypass 2<br>Bypass 3   | (B.P.2)<br>(B.P.3)        | φ0.9<br>φ0.8   | •••   |
| Pilot screw<br>Valve seat size<br>Starter jet                  | (P.S)<br>(V.S)<br>(G.S.1) | 2.0<br>2.3<br>#52.5  | •••   |
| Starter jet<br>Throttle valve size                             | (G.S.2)<br>(Th.V)         | 0.8<br>#115  | •••   |
| Float height<br>Fuel level (using special<br>Engine idle speed | (F.H)<br>tool)            | 13.0 mm (0.51 in)<br>3.0 ~ 4.0 mm (0.12 ~ 0.16 in)<br>950 ~ 1150 r/min | •••   |
| Intake vacuum  |                           | 30.7 kPa (230 mmHg, 9.1 inHg)  | •••   |

#### **CHASSIS SPECIFICATIONS**



#### **CHASSIS SPECIFICATIONS**

| Model   | Standard   | Limit                            |
|---|--|----------------------------------|
| Front suspension:<br>Fork spring free length<br>Fitting length<br>Collar length<br>Spring rate (K1)<br>(K2)<br>Stroke (K1)<br>(K2)<br>Oil capacity<br>Oil level | 357.3 mm (14.07 in)<br>337.3 mm (13.28 in)<br>195 mm (7.68 in)<br>7.5 N/mm (0.76 kgf/mm, 42.83 lb/in)<br>13 N/mm (1.33 kgf/mm, 74.23 lb/in)<br>0 ~ 75 mm (0 ~ 2.95 in)<br>75 ~ 130 mm (2.95 ~ 5.12 in)<br>562 cm <sup>3</sup> (0.5 Imp qt, 0.59 us qt)<br>124 mm (4.88 in) | 346.6 mm (13.65 in)              |
| Rear suspension:<br>Spring rate (K1)<br>(K2)<br>(K3)<br>Stroke (K1)<br>(K2)<br>(K3)   | 21.3 N/mm (2.17 kgf/mm, 121.62 lb/in)<br>27.8 N/mm (2.83 kgf/mm, 158.74 lb/in)<br>33.7 N/mm (3.44 kgf/mm, 192.43 lb/in)<br>$0 \sim 37$ mm ( $0 \sim 1.46$ in)<br>$37 \sim 58$ mm ( $1.46 \sim 2.28$ in)<br>$58 \sim 93$ mm ( $2.28 \sim 3.66$ in)                          | •••                              |
| Front wheel:<br>Rim size  | 17 M/C × MT3.50  | •••                              |
| Rear wheel:<br>Rim size   | 17 M/C × MT5.50  | •••                              |
| Drive chain:<br>Type/manufacturer<br>No. of links   | 50VA8/DAIDO<br>112   | •••                              |
| Front disc brake:<br>Disc deflection limit<br>Master cylinder inside diameter   | •••<br>15 mm (0.59 in)   | 0.1 mm (0.0039 in)               |
| T.C.I.:<br>T.C.I. unit model/manufacturer   | TNDF75/DENSO (except for DEU)<br>TNDF76/DENSO (DEU)  | •••                              |
| Oil level switch:<br>Model/manufacturer   | 5UX/DENSO  | •••                              |
| Circuit breaker:<br>Type<br>Amperage for individual circuit ×<br>Q'ty   | Fuse   | •••                              |
| Main<br>Head Light<br>Signal<br>Ignition<br>Parking Light<br>Backup   | $40 A \times 1$<br>$15 A \times 1$<br>$10 A \times 1$<br>$15 A \times 1$<br>$10 A \times 1$<br>$10 A \times 1$   | ••••<br>•••<br>•••<br>•••<br>••• |
| Reserve   | 40 A × 1<br>15 A × 1<br>10 A × 1   | •••                              |

-3-



#### TIGHTENING TORQUES ENGINE TIGHTENING TORQUES

| Part to be tightened             | Part  |            |   |     | ghtenir<br>torque | Remarks |    |
|----------------------------------|-------|------------|---|-----|-------------------|---------|----|
|                                  | name  | SIZE       |   | Nm  | m•kg              | ft•lb   |    |
| Cylinder                         | Nut   | M6 × 1.0   | 4 | 12  | 1.2               | 8.7     |    |
| Exhaust pipe and exhaust chamber | Screw | M8 × 1.25  | 2 | 20  | 2.0               | 14      |    |
| Exhaust chamber and muffler      | Bolt  | M8 × 1.25  | 4 | 20  | 2.0               | 14      |    |
| Muffler protector                | Screw | M6 × 1.0   | 4 | 15  | 1.5               | 11      |    |
| Crankcase cover (right)          | Screw | M6 × 1.0   | 2 | 10  | 1.0               | 7.2     |    |
| Drive sprocket cover             | Bolt  | M6 × 1.0   | 2 | 10  | 1.0               | 7.2     |    |
| Crankcase                        | Bolt  | M12 × 1.25 | 5 | 35  | 3.5               | 25      |    |
| Stopper plate                    | Bolt  | M6 × 1.0   | 1 | 10  | 1.0               | 7.2     | -0 |
| (Starter clutch idle gear shaft) |       |            |   |     |                   |         |    |
| Stopper lever                    | Bolt  | M8 × 1.0   | 1 | 10  | 1.0               | 7.2     | -0 |
| Neutral switch                   | Screw | M5 × 0.8   | 3 | 3.5 | 0.35              | 2.5     |    |
| Speed sensor                     | Bolt  | M6 × 1.0   | 1 | 10  | 1.0               | 7.2     |    |

#### CHASSIS TIGHTENING TORQUES

| Part to be tightened        | Part<br>name | Thread size  | Q'ty |     | ghtenir<br>torque | 0     | Remarks |
|-----------------------------|--------------|--------------|------|-----|-------------------|-------|---------|
|                             | name         |              |      | Nm  | m•kg              | ft∙lb |         |
| Rear fender cover and cover | Screw        | M5 	imes 0.8 | 2    | 1.5 | 0.15              | 1.1   |         |
| Center stand                | Nut and      | M10 × 1.25   | 2    | 56  | 5.6               | 41    |         |
|                             | Bolt         |              |      |     |                   |       |         |
| Front wheel axle            | -            | M18 × 1.5    | 1    | 72  | 7.2               | 52    |         |
| Front brake disk and hub    | Bolt         | M8 × 1.25    | 12   | 18  | 1.8               | 13    | -0      |
| Driven sprocket and hub     | Nut          | M8 × 1.25    | 6    | 69  | 6.9               | 4.3   |         |
| Rear wheel axle             | Nut          | M24 × 1.5    | 1    | 150 | 15.0              | 108   |         |
| Rear brake disc and hub     | Bolt         | M8 × 1.25    | 6    | 23  | 2.3               | 17    | -6      |

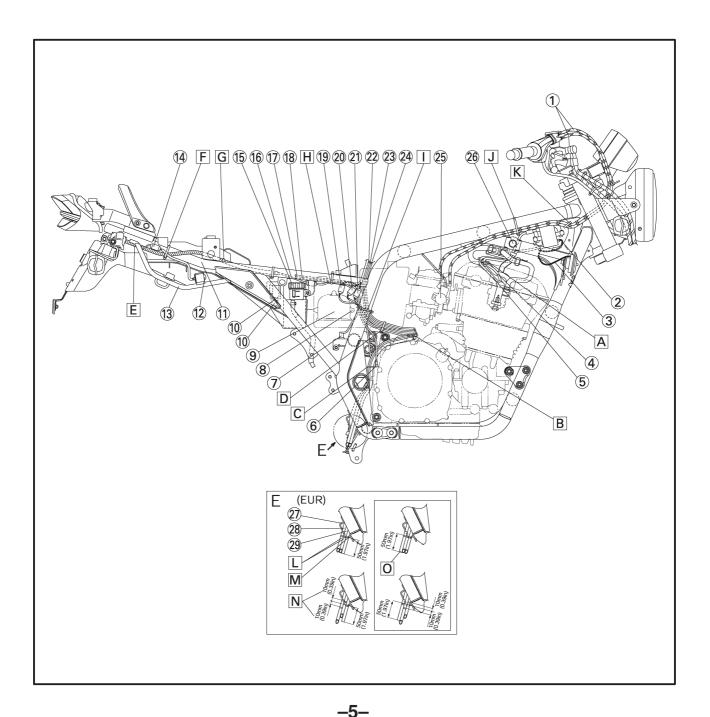
-4-



- 1 Throttle cables
- 2 Ignition coil lead (#1, #4)
- ③ Horn lead
- $\overline{4}$  Spark plug lead (#3)
- 5 Spark plug lead (#4)
- 6 Ground lead
- 7 Rear brake switch
- (8) Intake air filter screw
- (9) Air filter
- (10) Relay assembly

- (11) Seat rail
- 12 Thermo switch
- (13) Standing handle
- 14 Thermo switch coupler
- (15) Rear brake fluid reservoir tank
- 16 Speed sensor lead
- 17 Starter motor lead
- 18 Battery negative lead
- (19) Carburetor heater coupler
- 20 A.C.magneto

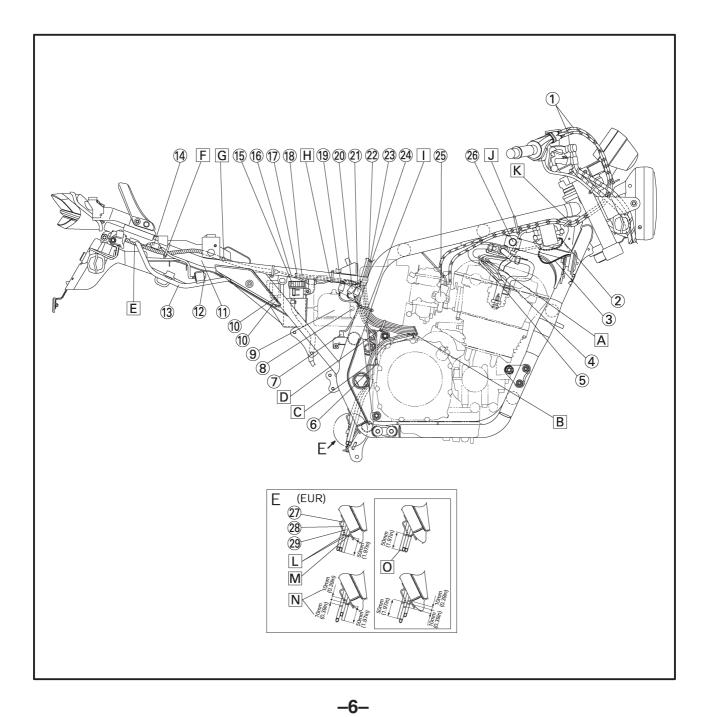
- (21) Rear brake light switch coupler
- 2 Neutral switch lead
- 23 Pickup coil lead
- 24 Sidestand switch lead
- 25 Throttle position sensor
- 26 Fuel tank fitting
- (27) Guide wire
- 28 Fuel tank drain hose
- 29 Fuel tank breather hose





- A Clamp the #3 and #4 spark plug D Clump the A.C.magneto lead, leads, on the head cover mounting bolt at the #3 spark plug lead, by use of clamp.
- B Do not entangle the lead wires and the hosing. Pass the clump of lead wires and that of hosing orderly as shown.
- C Pass the air filter drain hose, fuel F Fasten the wire harness, thermo tank drain hose and fuel tank breather hose (total 3 hoses) through the guide wire of the engine.
- pickup lead, sidestand switch lead, starter motor cable and carburetor heater lead (total 5 wires), by use of this clamp.
- E Pass the wire harness between the handle standing lug member and the rear fender.
  - switch lead to the seat rail at the front end of the seat rail bracket with a clamp. Point the tip of the clamp to the downward.

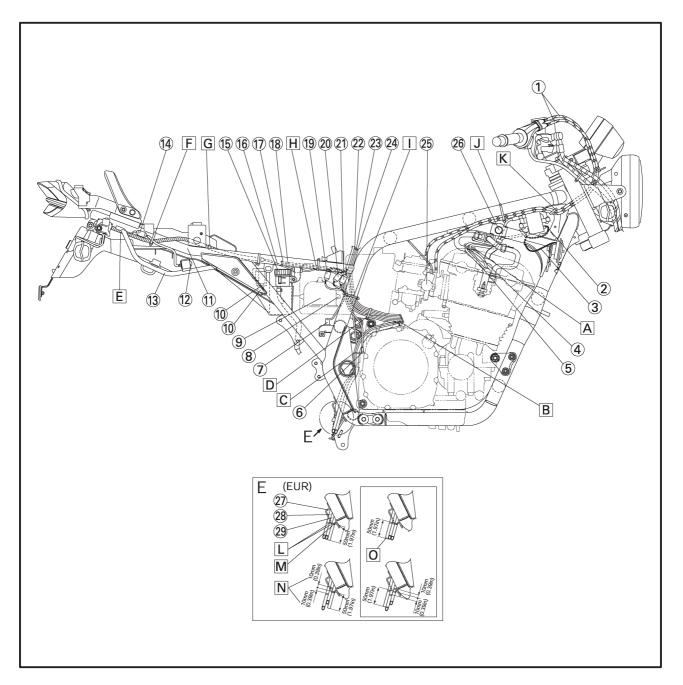
- G Clamp the wire harness.
- H Pass the starter motor cable, speed sensor lead and the battery negative lead through the inside of the seat rail.





- lead, starter motor cable, battery negative lead, A.C. magneto lead, neutral switch lead, sidestand switch lead, pickup lead and rear brake switch lead, speed sensor lead (total 9 wires), to the fuel tank rail, near the air filter intake port mounting screw, by use of this clamp. The front end of the clamp must be directed towards the front of L Match the marks of the fuel tank the vehicle.
- I Secure the carburetor heater J Clump the throttle cables to the M Match the paint mark of the air filfuel tank rail, on the tank fitting by use of this clamp. The front end of the clamp must be directed downward.
  - K Thread this clamp through the upper hole in the gusset and sefront end of the clamp must be directed towards the inside of the vehicle.
  - drain hose and fuel tank breather hose, and arrange the two types of hose properly.

- ter drain hose to the lower end of the guide wire.
- N Make sure to pull out the hose sufficiently so that bending does not occur and it can be set within this range.
- cure the two throttle cables. The O Air filter drain hose can also be routed at the rear side (The middle position is prohibited).



-7-

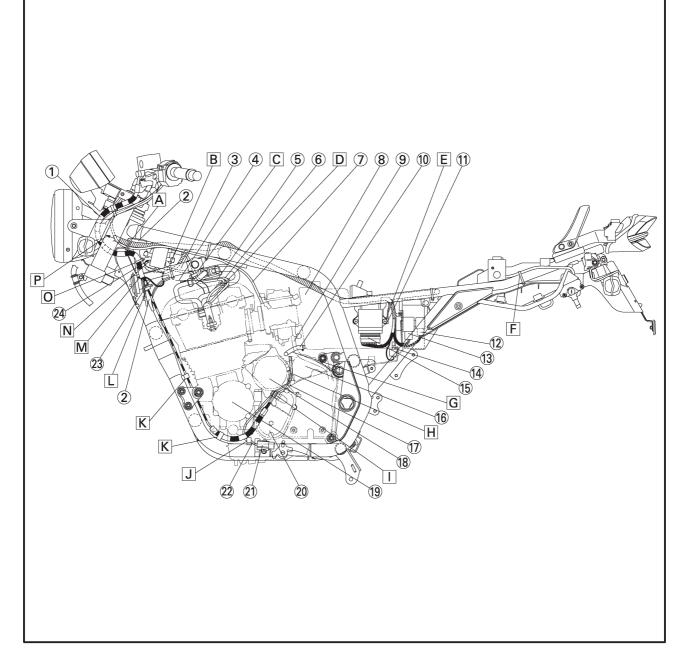


- 1 Clutch cable
- 2 Gusset
- ③ Tension pipe 1
- (4) Air induction system assembly
- 5 Spark plug lead (#2)
- 6 Spark plug lead (#1)
- (7) Starter cable
- (8) Air filter
- (9) Carburetor air vent hose
- (10) Air filter drain hose
- (1) Frame ground
- 12 Turn signal relay coupler
- (13) Carburetor heater relay coupler
- 14 Fuse box (for EUR)
- 15 Igniter unit coupler
- 16 Starter motor

- (17) Speed sensor lead
- 18 A.C.magneto
- (19) Pickup coil rotor cover
- 20 Oil filter cover
- 21) Sidestand switch
- 22 Sidestand switch lead
- 23 Horn lead
- 24 Ignition coil lead (#2, #3)
- A Pass the wire harness and the starter cable through the holder wire of the gusset. Pass the starter cable under the

wire harness.

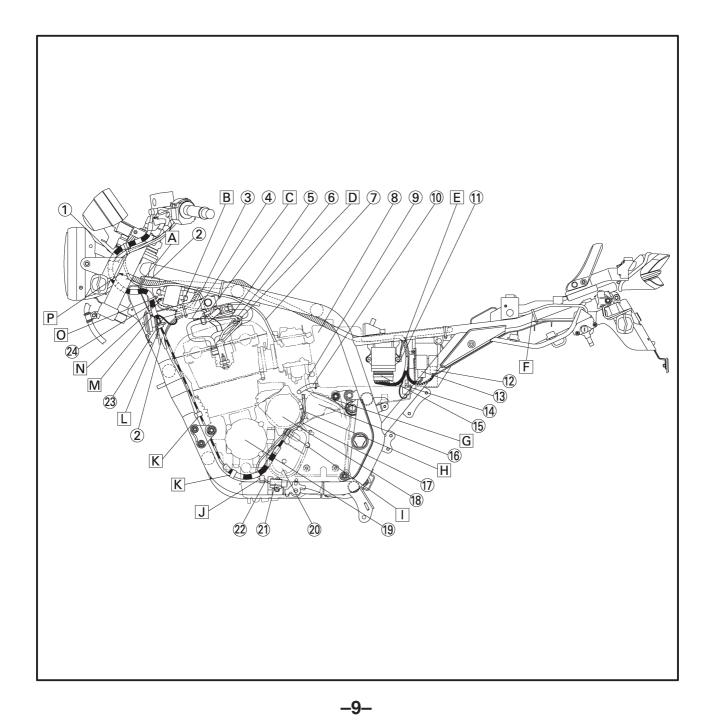
- B Secure the lead wire branch of the main harness to tension pipe 1, at the immediate rear of the gusset, by use of this clamp. The front end of the clamp must be directed downward.
- C Clamp the four spark plug leads, the #1 and #2 spark plug leads up and the #3 and #4 spark plug leads down, by use of this clamp. Position the leading ends of the spark plug leads near, but not below, the lower front end of the air induction system assembly.



-8-

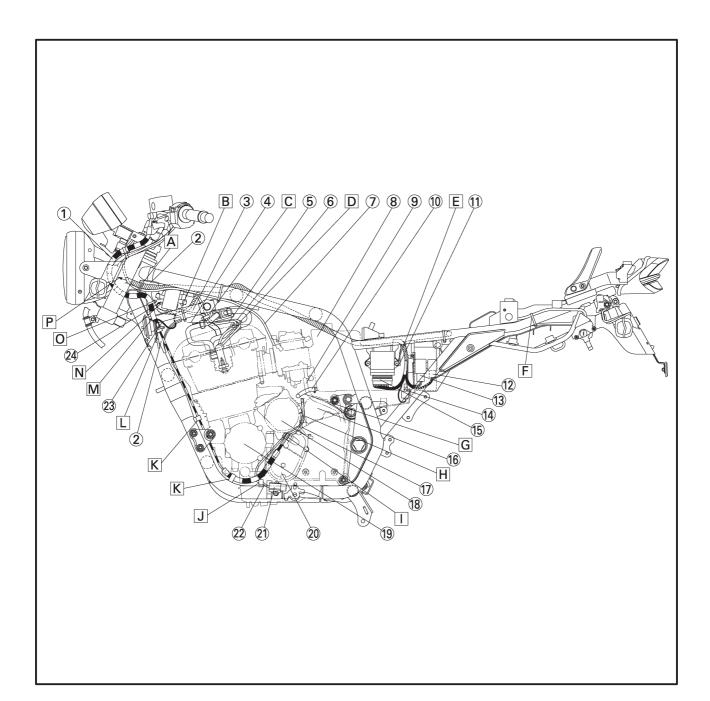


- D Clamp the #1 and #2 spark plug G Route the air filter drain hose by J After securing the side stand leads using this clamp. Clamp these cords above the #2 head cover mounting bolt.
- E Make sure to tighten the frame ground together with the igniter unit attaching screw.
- seat rail with a clamp. Point the tip of the clamp to the downward.
- the front side of the carburetor air vent hose and by the right side of the vehicle body. To route to the right side of the body, make sure to set between the starter motor and A.C.magneto.
- F Fasten the seat lock cable to the H Route the speed sensor lead by the right side of the vehicle body along with the sidestand switch  $|\mathsf{K}|$  Clamp the clutch hose. lead.
  - I Mount the square fixture of the clutch hose in parallel with the cover.
- switch lead wire using this clamp, first route the lead wire between the pickup cover, the oil filter cover, the A.C. generator, and the starter motor. Next, as with the engine lead wire, route the lead wire through the right side of the vehicle.
- L Secure the grommet of the clutch hose by use of this holder wire of the gusset.





- the clutch hose and the frame, then pull the lead wire out to the front, and connect the lead wire to the horn.
- N Connect the black-couplerequipped lead wire to the #1 and #4 ignition coils.
- O Pass this clamp through the lower hole of the gusset and secure the clutch cable. The front end of the clamp must be directed towards the inside of the vehicle.
- M Pass the horn lead wire between P Pass the main harness through the inside of the clutch hose and insert the harness into the left of the headlight lower hole.

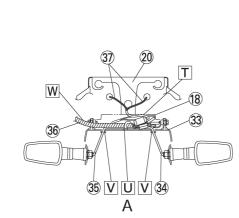


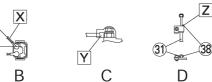


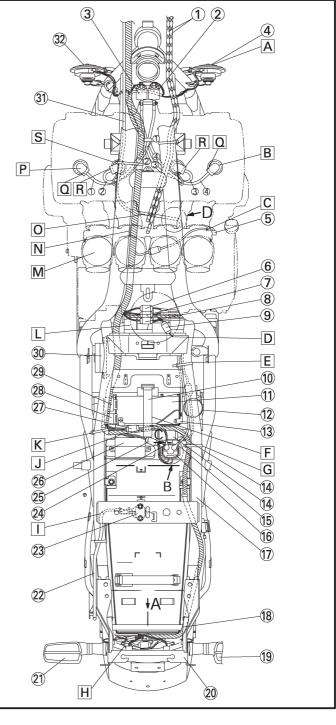
- (1) Throttle cables
- (2) Ignition coil (#1, #4)
- (3) Ignition coil (#2, #3)
- (4) Horn (right)
- (5) Throttle position sensor
- (6) Neutral switch coupler
- (7) Pickup coil coupler
- (8) Sidestand switch coupler
- (9) Fuel sender coupler
- (10) Battery band
- (11) Battery
- (12) Rear brake fluid reservoir tank
- (13) Battery negative lead

- (14) Relay assembly
- (15) Starter motor cable
- (16) Starter motor relay
- (17) Seat rail
- (18) Rear fender rib
- (19) Rear turn signal light (right)
- 20 Tail/brake light bracket
- (21) Rear turn signal light (left)
- 22 Seat lock wire
- 23 Seat lock
- 24) Battery positive lead
- 25 Starter relay coupler
- 26 Fuse box

- 27 Battery negative lead coupler
- 28 Turn signal relay
- 29 Carburetor heater relay coupler
- 30 Igniter unit
- (31) Starter cable
- 32 Horn (left)
- 33 Rear fender
- 34 Rear turn signal light lead (left)
- 35 Rear turn signal light lead (right)
- 36 Wire harness
- 37 Tail/brake light lead
- 38 Stopper



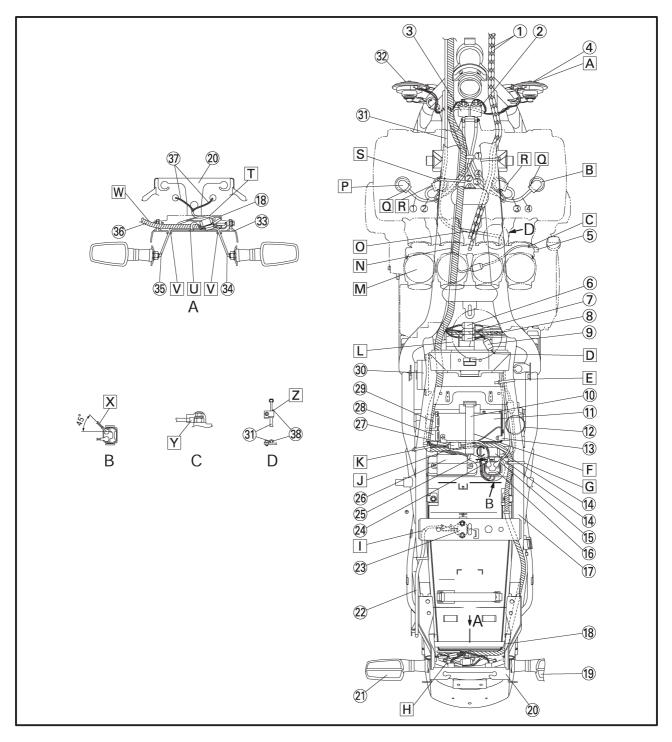






- A Right horn. Install the HI tone source (with Hmarked label) at the right of the vehicle.
- B Connect the #1-#4 spark plug leads in order of the cord number.
- C Pass the T.P.S. lead wire through the clamp of the #4 carburetor.
- D To the fuel sender.
- E Fasten the starter motor cable, G Clamp the wire harness to the battery negative lead and speed sensor lead to the seat rail between the air filter and tank attaching brackets with a clamp.
- F Fasten two battery positive leads, battery negative lead coupler and wire harness with the battery clamp.
- seat rail at the immediate rear of the side cover mounting bracket on the seat rail.

The front end of the clamp must face downward and be positioned inside the back stay.

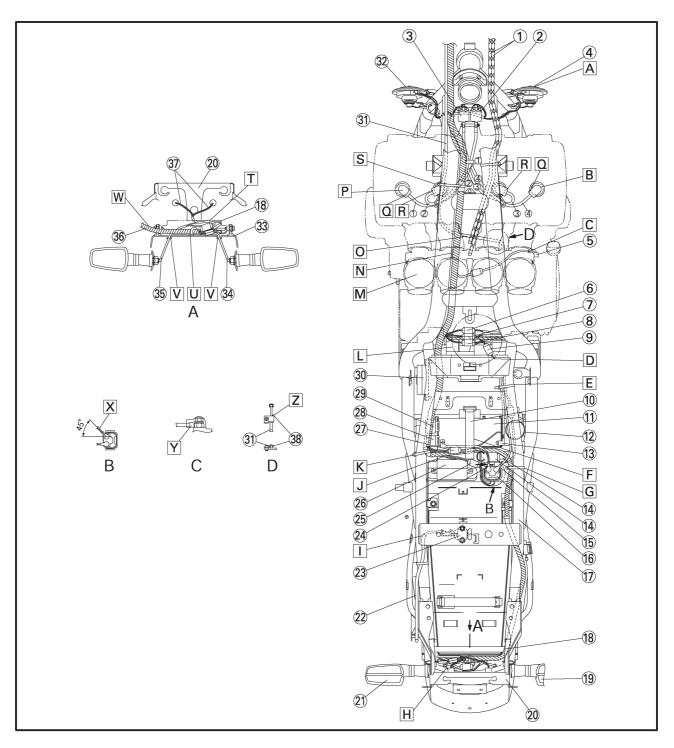




- light lead wire, and the rear left and right flasher lead wires, into the space between the taillight bracket and the rib of the rear fender.
- The seat lock wire must not extend to the outside of the bracket.
- J Pass the lead wire leading to the fuse box under the wire harness.
- H Store the wire harness, the tail- K Clamp the wire harness to the L Connect the fuel sender coupler, seat rail, on the wire harness positioning tape and at the immediate rear of the side cover mounting bracket on the seat rail.

The front end of the clamp must face downward and be positioned inside the back stay.

- neutral switch coupler, pickup coupler, and side stand switch coupler wires above the air cleaner.
- M Carburetors #1 to #4 in a left-toright way.
- N Thread the wire harness insertion clamp onto the T-stud of the frame.
- O Pass the starter cable through the front of the throttle cable.

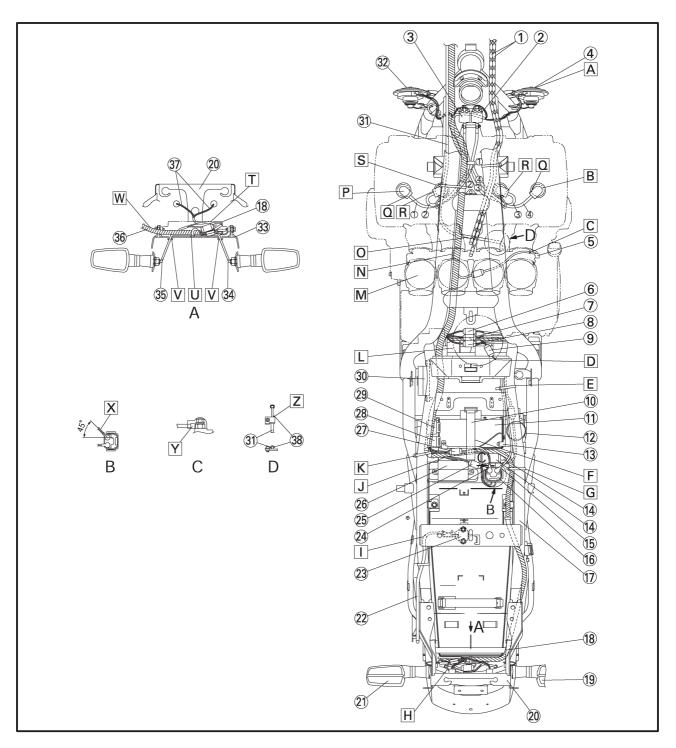




- spark plug leads.
- Q Point inward.
- R Point outward.
- S Secure the wire harness and the starter cable, on the harness positioning tape, by use of this clamp. The front end of the clamp must be directed downward.

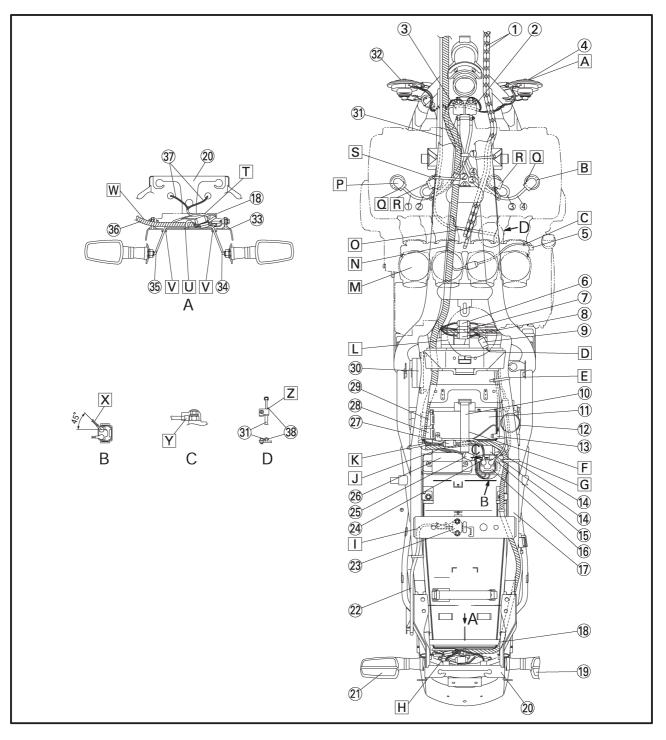
The harness must not deflect between the T-stud and the clamp.

- P From left: #1, #2, #3, and #4 T Position of the wire harness, tail V Pass the left rear turn signal light brake light lead, left rear turn signal light lead, right rear turn signal lead should be not higher fender.
  - U Clamp the wire harness, left rear turn signal light lead and right rear turn signal light lead. Point the tip of the clamp to the front side.
- lead and right rear turn signal light lead through the hole of the rear fender respectively.
- than the rib height of the rear  $\overline{W}$  Pass the wire harness between the frame installation section and storage space rib of the rear fender.
  - X Connect the starter motor cable to face outward at an angle of about 45 degrees.





- Y Direct the crimping side of the battery positive (+) lead wire downward and connect the lead wire.
- Z Connect the starter cable to face at right angles to the vehicle body with contact with the stoppers.





- (1) Speedometer lead
- (2) Crown handle
- (3) Left handlebar switch lead
- (4) Starter cable
- (5) Clutch cable
- (6) Front turn signal light lead (left)
- (7) Immobilizer unit lead
- (8) Main switch lead
- (9) Wire harness
- (10) Front turn signal light lead (right)
- (11) Brake hose 2
- (12) Brake hose 1
- (13) Right handlebar switch lead
- (14) Immobilizer unit coupler
- (15) Housing connector
- (16) Housing connector 2

- A Pass the meter lead, left handle C Route the turn signal light lead bar switch lead and right handlebar switch lead through the upper hole of the headlight.
- B Bind the left handlebar switch lead, clutch cable and starter D Pass the left front turn signal light cable under the crown handle with a clamp.

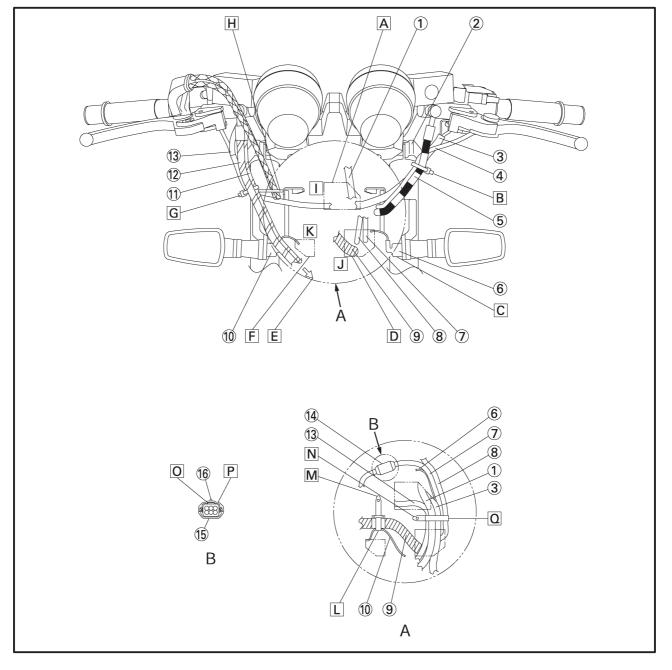
Pass the left handlebar switch lead through the inside of the clutch cable.

Pass the starter cable through the frame side, then the inside of the clutch cable and the front side of the left handlebar switch lead.

by the front side of the headlight stay (left and right).

Make sure to install the cap upward.

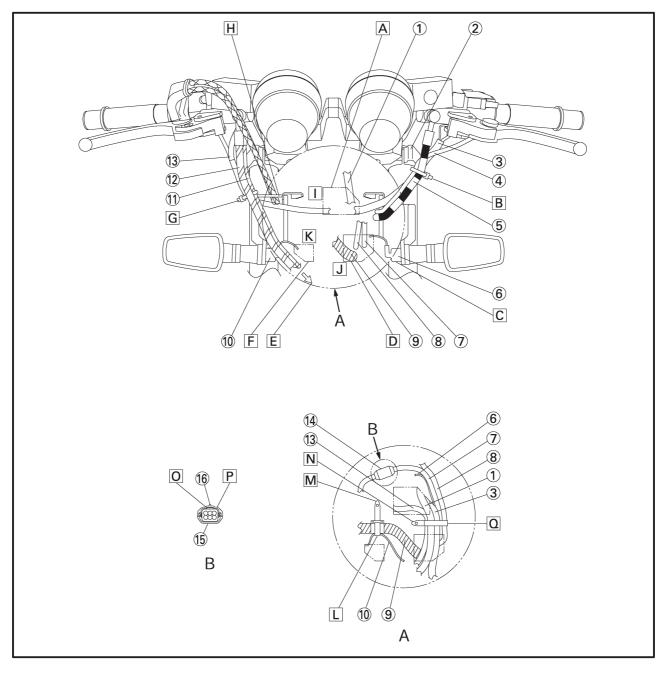
- lead, main switch lead, immobilizer unit lead and wire harness through the lower left hole of the head light.
- E To the front brake caliper
- F Pass the right front turn signal light lead through the lower right hole of the head light.





- G Bind the right handlebar switch N Tighten the clamp pointing the lead and brake hose 2 by the side of the wire guide of the O Install the coupler locking secheadlight stay with a clamp.
- H Pass the throttle cables through stay.
- I To the upper hole
- K To the right side of the lower hole
- L Clamp the right front turn signal light lead and wire harness. Clamp the wire harness aligning with the positioning tape.
- M Tighten the clamp pointing the tip to the upward.

- tip to the inward.
- tion facing the housing connector 2.
- the wire guide of the headlight P Place the cover onto the coupler for the immobilizer lead and wire harness.
- J To the left side of the lower hole Q Clamp the main switch lead, immobilizer lead, left handlebar switch lead, right handlebar switch lead, front turn signal light (left) and meter lead.





EAS00036

### PERIODIC CHECKS AND ADJUSTMENTS

#### INTRODUCTION

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

#### EAS00037

## PERIODIC MAINTENANCE AND LUBRICATION INTERVALS

#### NOTE: -

- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
- From 50,000 km, repeat the maintenance intervals starting from 10,000 km.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

| NC | NO. ITEM |                        | CHECK OR MAINTENANCE JOB   |   | ODOME<br>(×  | TER R        |              | à                | ANNUAL       |  |  |  |
|----|----------|------------------------|--|---|--------------|--------------|--------------|------------------|--------------|--|--|--|
|    |          |                        |  |   | 10           | 20           | 30           | 40               | CHECK        |  |  |  |
| 1  | *        | Fuel line              | Check fuel and vacuum hoses for cracks or damage.  |   | 1            | <i>\</i>     | $\checkmark$ |                  | √            |  |  |  |
| 2  | *        | Fuel filter            | Check condition.   |   |              | $\checkmark$ |              | $\checkmark$     |              |  |  |  |
| 3  |          | Spark plugs            | <ul><li>Check condition.</li><li>Clean and regap.</li></ul>  |   | $\checkmark$ |              | $\checkmark$ |                  |              |  |  |  |
|    |          |                        | Replace.   |   |              | $\checkmark$ |              | $\checkmark$     |              |  |  |  |
| 4  | *        | Valves                 | Check valve clearance.     Adjust.   |   |              | Every        | y 20000      | km               |              |  |  |  |
| -  |          | Air filter element     | • Clean.   |   | $\checkmark$ |              | $\checkmark$ |                  |              |  |  |  |
| 5  |          | Air filter element     | Replace.   |   |              | $\checkmark$ |              | $\checkmark$     |              |  |  |  |
| 6  | *        | Clutch                 | Check operation, fluid level and vehicle for fluid leakage.  | 1   | $\checkmark$ | $\checkmark$ | $\checkmark$ |                  |              |  |  |  |
| _  | *        |                        | Check operation, fluid level and vehicle for fluid leakage.  | 1   | 1            | /            | 1            | Ú,               | 1            |  |  |  |
| 7  | L.       | Front brake            | Replace brake pads.  |   | W            | nenever      | worn to      | the limi         | t            |  |  |  |
|    | *        | <b>-</b>               | Check operation, fluid level and vehicle for fluid leakage.  | 1   | 1            | $\checkmark$ | $\checkmark$ | 1                | √            |  |  |  |
| 8  | L.       | Rear brake             | Replace brake pads.  | pads. Whenever worn   |              |              |              | orn to the limit |              |  |  |  |
|    | *        |                        | Check for cracks or damage.  |   | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$     | √            |  |  |  |
| 9  | l Î      | Brake hoses            | Replace.   | Every 4 years   |              |              |              |                  |              |  |  |  |
| 10 | *        | Wheels                 | Check runout and for damage.   |   | J            | J            | J            | 1                |              |  |  |  |
| 11 | *        | Tires                  | Check tread depth and for damage.     Replace if necessary.     Check air pressure.     Correct if necessary.                    | Replace if necessary.     Check air pressure.     ✓ ✓             |              |              |              | √                | $\checkmark$ |  |  |  |
| 12 | *        | Wheel bearings         | Check bearing for looseness or damage.   |   | 1            | /            | $\checkmark$ | 1                |              |  |  |  |
|    | *        |                        | Check operation and for excessive play.  |   | 1            | 1            | 1            | l V              |              |  |  |  |
| 13 | l Î      | Swingarm               | Lubricate with lithium-soap-based grease.  |   |              | Every        | y 50000      | km               |              |  |  |  |
| 14 |          | Drive chain            | <ul> <li>Check chain slack.</li> <li>Make sure that the rear wheel is properly aligned.</li> <li>Clean and lubricate.</li> </ul> | Every 1000 km and after washing the moto<br>or riding in the rain |              |              | motorcycle   |                  |              |  |  |  |
| 45 |          |                        | Check bearing play and steering for roughness.   |   | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$     |              |  |  |  |
| 15 | *        | Steering bearings      | Lubricate with lithium-soap-based grease.  | Every 20000 km  |              | -            |              |                  |              |  |  |  |
| 16 | *        | Chassis fasteners      | • Make sure that all nuts, bolts and screws are properly tightened.<br>$\checkmark$  |   | $\checkmark$ | $\checkmark$ | $\checkmark$ |                  |              |  |  |  |
| 17 |          | Sidestand, centerstand | Check operation.     Lubricate.  | ↓ ↓ ↓   |              |              | $\checkmark$ |                  |              |  |  |  |
| 18 | *        | Sidestand switch       | Check operation.   | $\checkmark$  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$     | $\checkmark$ |  |  |  |
| 19 | *        | Front fork             | Check operation and for oil leakage.   |   | ./           | ./           |              |                  |              |  |  |  |

#### INTRODUCTION/PERIODIC MAINTENANCE AND LUBRICATION INTERVALS



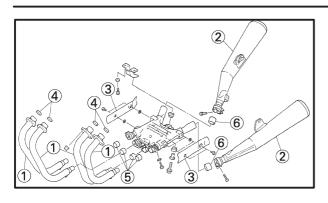
| NO. |   | ITEM                            | ITEM CHECK OR MAINTENANCE JOB   |              | ANNUAL       |              |              |              |   |
|-----|---|---------------------------------|---|--------------|--------------|--------------|--------------|--------------|---|
|     |   |                                 |   | 1            | 10           | 20           | 30           | 40           |   |
| 20  | * | Shock absorber assem-<br>blies  | Check operation and shock absorbers for oil leakage.  |              | $\checkmark$ | ~            | $\checkmark$ | $\checkmark$ |   |
| 21  | * | Carburetors                     | <ul><li>Check starter (choke) operation.</li><li>Adjust engine idling speed and synchronization.</li></ul>  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ |
| 22  |   | Engine oil                      | <ul><li>Change.</li><li>Check oil level and vehicle for oil leakage.</li></ul>  |              | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ |
| 23  |   | Engine oil filter element       | Replace.  |              |              | $\checkmark$ |              | $\checkmark$ |   |
| 24  | * | Front and rear brake switches   | Check operation.  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ |
| 25  |   | Moving parts and cables         | Lubricate.  |              | $\checkmark$ | √            | $\checkmark$ | $\checkmark$ | 1 |
| 26  | * | Throttle grip housing and cable | <ul> <li>Check operation and free play.</li> <li>Adjust the throttle cable free play if necessary.</li> <li>Lubricate the throttle grip housing and cable.</li> </ul> |              | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ |
| 27  | * | Muffler and exhaust pipe        | Check the screw clamp for looseness.  | $\checkmark$ | $\checkmark$ | ~            | $\checkmark$ | $\checkmark$ |   |
| 28  | * | Lights, signals and switches    | <ul><li>Check operation.</li><li>Adjust headlight beam.</li></ul>   | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ |

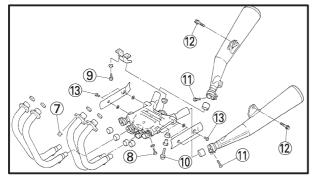
#### NOTE: \_

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake and clutch service
  - Regularly check and, if necessary, correct the brake and clutch fluid levels.
  - Every two years replace the internal components of the brake master cylinders and calipers as well as clutch master and release cylinders, and change the brake and clutch fluids.
  - Replace the brake and clutch hoses every four years and if cracked or damaged.

#### CHECKING THE EXHAUST SYSTEM







### 

#### ENGINE

#### CHECKING THE EXHAUST SYSTEM

The following procedure applies to all of the exhaust pipes, mufflers and gaskets.

- 1. Check:
  - exhaust pipe ①
  - muffler 2
  - muffler protector ③
     Cracks/damage → Replace.
     gasket ④, ⑤, ⑥
  - Exhaust gas leaks  $\rightarrow$  Replace.
- 2. Check:
  - tightening torque



Exhaust pipe nut 7 25 Nm (2.5 m•kg, 18.1 ft•lb) Exhaust pipe and exhaust chamber screw 8 20 Nm (2.0 m•kg, 14.5 ft•lb) Muffler bracket bolt 9 20 Nm (2.0 m•kg, 14.5 ft•lb) Exhaust chamber bolt 10 25 Nm (2.5 m•kg, 18.1 ft•lb) Exhaust chamber and muffler bolt 11 20 Nm (2.0 m•kg, 14.5 ft•lb) Muffler and stay bolt 12 20 Nm (2.0 m•kg, 14.5 ft•lb) Muffler protector screw 13

15 Nm (1.5 m•kg, 10.9 ft•lb)

#### XJR1300(S) 2004 WIRING DIAGRAM

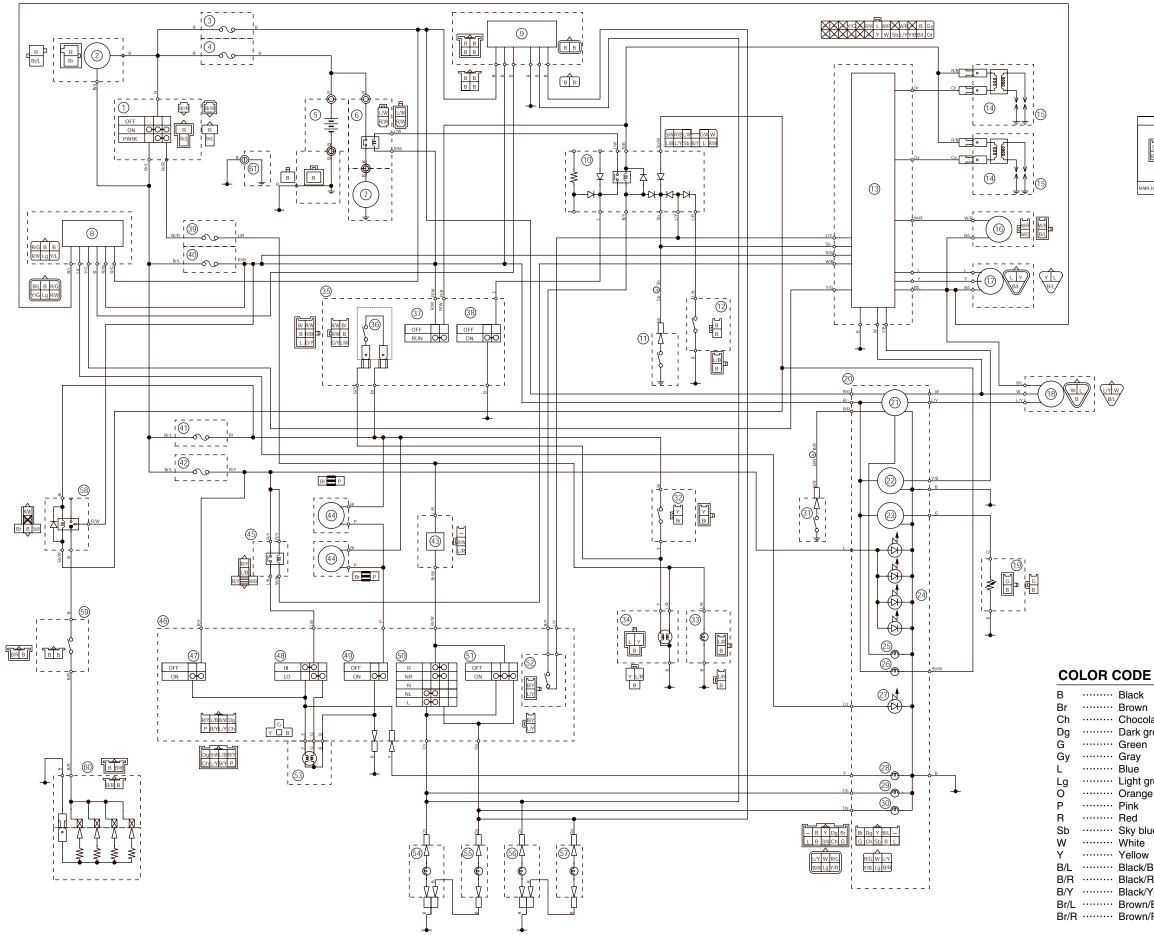
1 Main switch

- 2 A.C. magneto
- ③ Fuse (back up)
- ④ Fuse (main)
- 5 Battery
- 6 Starter relay
- ⑦ Starter motor
- (8) Immobilizer unit
- (9) Alarm
- 10 Starting circuit cut-off relay
- (11) Neutral switch
- (12) Sidestand switch
- (13) Ignitor unit
- (14) Ignition coil
- (15) Spark plug
- (16) Pickup coil
- Throttle position sensor
- (18) Speed sensor
- (19) Fuel sender
- 20 Meter assembly
- 21) Speedometer
- 2 Tachometer
- 23 Fuel gauge
- 24 Meter lights
- 25 Oil level warning light
- 26 Neutral indicator light
- 27 Immobilizer indicator light
- 28 High beam indicator light
- (29) Turn signal indicator light (left)
- (3) Turn signal indicator light (right)
- (31) Oil level switch
- 32 Rear brake light switch
- 33 Auxiliary light
- 34 Tail brake light
- 35 Right handlebar switch
- 36 Front brake switch
- 37 Engine stop switch
- 38 Start switch
- 39 Fuse (park)
- (40) Fuse (ignition)
- (41) Fuse (signal)
- (42) Fuse (headlight)
- (43) Turn signal relay
- (44) Horn
- 45 Headlight relay
- (46) Left handlebar switch
- (47) Pass switch
- 48 Dimmer switch
- (49) Horn switch
- 50 Turn signal switch
- 51 Hazard switch
- 52 Clutch switch
- 53 Headlight
- 64 Rear turn signal light (left)
- (55) Rear turn signal light (right)

- (56) Front turn signal light (left)
- 57 Front turn signal light (right)
- 58 Carburetor heater relay
- 59 Thermo switch
- 60 Carburetor heater
- 61 Ground



#### XJR1300(S) 2004 WIRING DIAGRAM





| ack        | Br/W |       | Brown/White    |
|------------|------|-------|----------------|
| rown       | G/W  |       | Green/White    |
| hocolate   | G/Y  |       | Green/Yellow   |
| ark green  | L/B  | ••••• | Blue/Black     |
| reen       | L/R  | ••••• | Blue/Red       |
| ray        | L/W  | ••••• | Blue/White     |
| ue         | L/Y  | ••••• | Blue/Yellow    |
| ght green  | R/B  | ••••• | Red/Black      |
| range      | R/G  | ••••• | Red/Green      |
| nk         | R/W  | ••••• | Red/White      |
| ed         | R/Y  |       | Red/Yellow     |
| ky blue    | Sb/W | /     | Sky blue/White |
| hite       | W/B  |       | White/Black    |
| ellow      | W/G  | ••••• | White/Green    |
| ack/Blue   | W/R  | ••••• | White/Red      |
| ack/Red    | Y/B  |       | Yellow/Black   |
| ack/Yellow | Y/G  | ••••• | Yellow/Green   |
| rown/Blue  | Y/L  |       | Yellow/Blue    |
| rown/Red   |      |       |                |