





SUPPLEMENTARY SERVICE MANUAL

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FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the YZF-R6 (S) 2004. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

YZF-R6 (R) 2003 SERVICE MANUAL: 5SL1-AE1

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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 of 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.

EAS00004

IMPORTANT MANUAL 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.

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HOW TO USE THIS MANUAL

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and check procedures are laid out with the individual steps in sequential order.

① The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter. Refer to "SYMBOLS".

(2) Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("PERIODIC CHECKS AND ADJUSTMENTS"), where the sub-section title(s) appears.

③ Sub-section titles appear in smaller print than the section title.

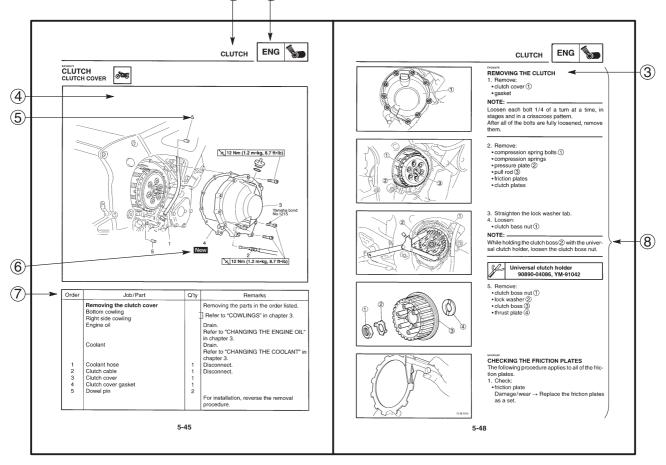
(4) To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

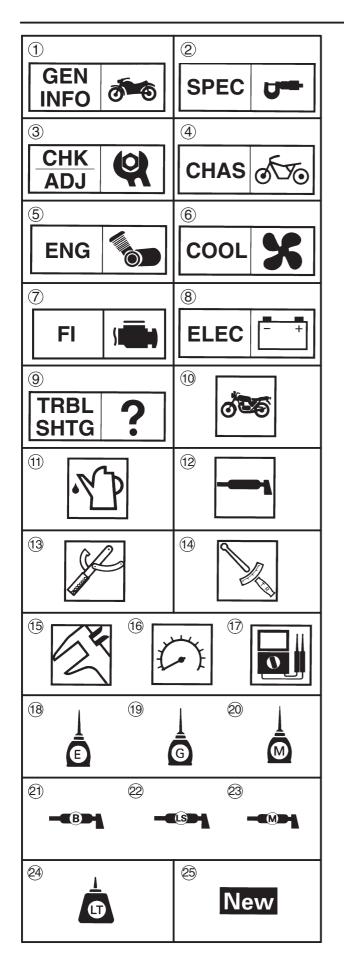
(5) Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.

6 Symbols indicate parts to be lubricated or replaced. Refer to "SYMBOLS".

 \bigcirc A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

(8) Jobs requiring more information (such as special tools and technical data) are described sequentially.
(2) (1)





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SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols 1 to 9 indicate the subject of each chapter.

- 1 General information
- (2) Specifications
- 3 Periodic checks and adjustments
- (4) Chassis
- (5) Engine
- 6 Cooling system
- (7) Fuel injection system
- (8) Electrical system
- (9) Troubleshooting

Symbols 10 to 17 indicate the following.

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

Symbols (18) to (23) in the exploded diagrams indicate the types of lubricants and lubrication points.

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

Symbols 24 to 25 in the exploded diagrams indicate the following.

- 24 Apply locking agent (LOCTITE[®])
- 25 Replace the part

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YZF-R6 (S) 2004 WIRING DIAGRAM

GENERAL SPECIFICATIONS



SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Standard	Limit
Model code	5SLB (EUR), 5SLC (F), 5SLG/5SLL (AUS)	•••

ENGINE SPECIFICATIONS

Item	Standard	Limit
Throttle bodies		
ID mark	5SL1 00 (5SLB/5SLG/5SLL), 5SL2 20 (5SLC)	•••
Throttle valve size	#100	•••

CHASSIS SPECIFICATIONS

Item	Standard	Limit
Front tire Model (manufacturer)	Pilot SPORT N (MICHELIN) D208 FJ (DUNLOP)	•••
Rear tire Model (manufacturer)	Pilot SPORT B (MICHELIN) D208 AJ (DUNLOP)	•••

ELECTRICAL SPECIFICATIONS

Item	Standard	Limit
Ignition system CDI unit model (manufacturer)	F8T814 (MITSUBISHI) (5SLB/5SLG/5SLL) F8T815 (MITSUBISHI) (5SLC)	•••
Ignition coils Model (manufacturer) Primary coil resistance Secondary coil resistance	F6T549 (MITSUBISHI) 0.24 ~ 0.32 Ω at 20°C (68°F) 5.0 ~ 6.8 kΩ at 20°C (68°F)	•••

TIGHTENING TORQUES



TIGHTENING TORQUES ENGINE TIGHTENING TORQUES

Itom	Item Fastener	Thread	Q'ty	Tightening torque			Remarks
nem		i asteriei	size	Qiy	Nm	m∙kg	ft∙lb
Oil cooler Cylinder identification sensor	Bolt Bolt	M20 M6	1 1	63 6.0	6.3 0.6	46 4.3	Yamaha bond No.1215

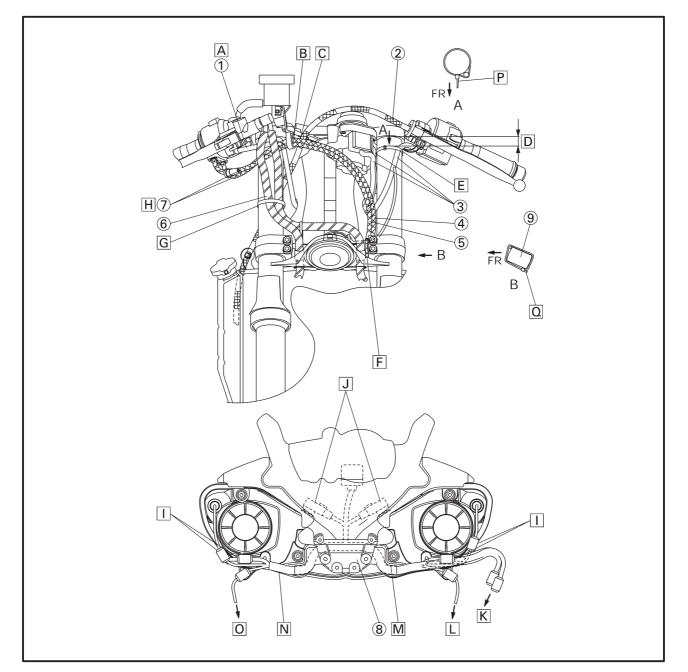
CABLE ROUTING



CABLE ROUTING

- 1 Right handlebar switch lead
- 2 Clutch cable
- Immobilizer unit lead, main switch lead and left handlebar switch lead
- (4) Throttle cable (return side)
- 5 Throttle cable (pull side)
- 6 Front brake hoses
- (7) Throttle cables
- (8) Joint
- 9 Under bracket

- A Pass the right handlebar switch lead inside the front brake hoses and over the throttle cables.
- B Install the throttle cables to the hook so that the pulling side of the throttle cables is routed downward.
- $\underline{\mathbb{C}}$ Pass the clutch cable through the guide.
- D Plastic locking tie shall be positioned at 10 mm (0.39 in.) below from the upper bracket.
- E Clamp the left handlebar switch lead to the front fork with the plastic locking tie and cut the tip of the tie. Clamp it to the protector section.

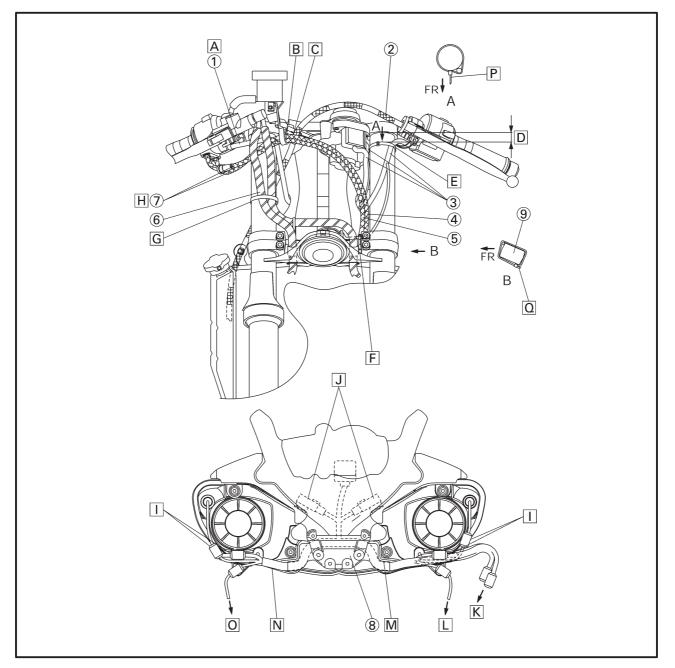


-3-

- side of the throttle. I Set in the c
- F Pass the horn lead by the outside of the throttle cable and clamp it to the forefront of upper face of the under bracket. Next, route it under the front brake hose and clamp it to the pawl of the under cover.
- G Clamp it at the position of 40 (1.57 in.) to 60 mm (2.36 in.) from the upper face of the under bracket with the plastic locking tie. Cut the surplus part of the clamp tip leaving 2 (0.08 in.) to 4 mm (0.16 in.). Point the tip of the clamp to the outside of vehicle.
- H Pass the throttle cables inside the front brake hoses.



- Set in the coupler between the head light's hollow section and the duct.
- J Install the relay to the rib of the head light.
- (Location for the left and right relays is alternative.) $\boxed{\mathsf{K}}$ To the wire harness
- L To the front turn signal light (right)
- \blacksquare Set the sub wire harness in the joint.
- N Do not catch the sub wire harness when the duct is assembled.
- O To the front turn signal light (left)
- P Point the tip of the plastic locking tie to the front side of the vehicle. Cut the tip leaving $2 \sim 10 \text{ mm} (0.08 \sim 0.39 \text{ in}).$
- \bigcirc Point the tip of the plastic locking tie under the under bracket and rear side of the vehicle. Cut the tip leaving 2 ~ 10 mm (0.08 ~ 0.39 in).



- 1 Throttle stop screw
- (2) Coolant reservoir tank hose
- 3 Pickup coil lead
- (4) Rear brake light switch lead
- 5 Coolant hose
- 6 Clutch cable
- 7 Coolant hose protector
- (8) Hose clamp assembly
- 9 Hose clamp
- A Pass the rear brake light switch lead outside of rear engine mount bolt.
- B Pass the ignition coil lead outside of the radiator hose.
- C Pass the coolant reservoir tank hose under the frame and right side of the throttle body.

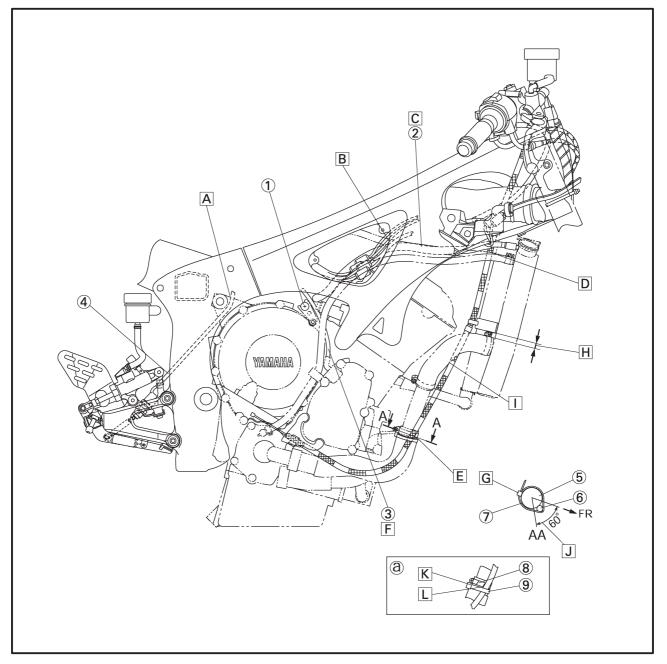
CABLE ROUTING



- D Pass the clutch cable inside of the coolant reservoir tank hose and radiator return hoses.
- E Assemble as "(a)" shown below when clamping.
- F Pass the pickup coil lead over the throttle stop cable.
- G Tip of the plastic locking tie shall be pointed to the inner side at the rear part of the vehicle.
- H The punch mark starting point should be lower than the clamp's top end.

However, the aiming position of the punch mark starting point should be 5 mm (0.20 in) below the clamp's bottom end.

- Pass the clutch cable inside of the radiator hose.
- J Clamp the clutch cable so that it is positioned in this range.
- K Put and apply the hose clamp to it.

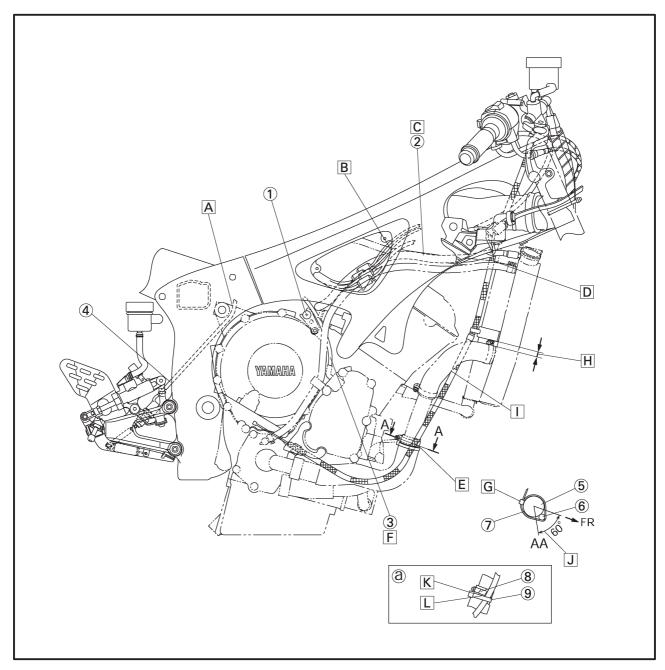


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CABLE ROUTING



L Clamp the clutch cable by routing the upper end of the clamp along with the bottom end of the hose clamp assembly.



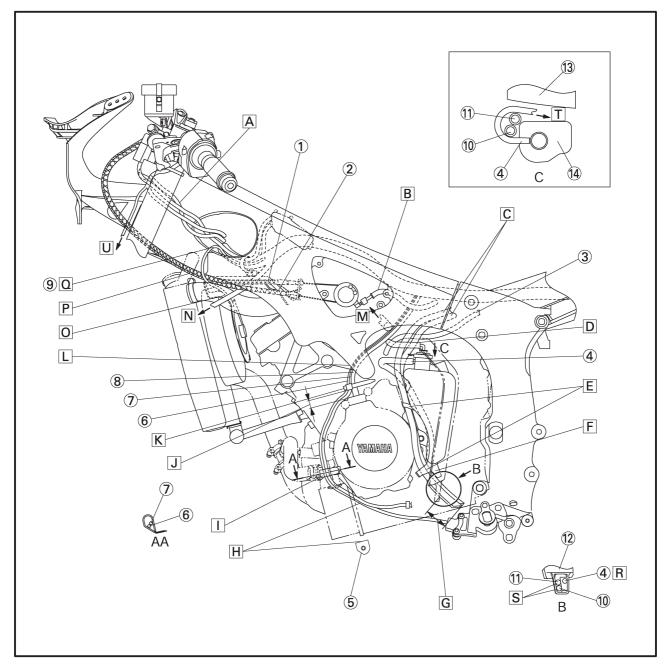
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- 1 Throttle cable (return side)
- (2) Throttle cable (pull side)
- 3 Starter motor lead
- (4) Coolant reservoir tank breather hose
- 5 Bracket 2
- 6 Sidestand switch lead
- $(\overline{7})$ Oil level switch lead
- (8) A.C. magneto lead
- (9) Radiator fan motor lead
- (10) Fuel tank breather hose
- (11) Fuel tank drain hose
- (12) Coolant reservoir tank cover
- 13 Drive sprocket cover
- (14) Coolant reservoir tank

CABLE ROUTING



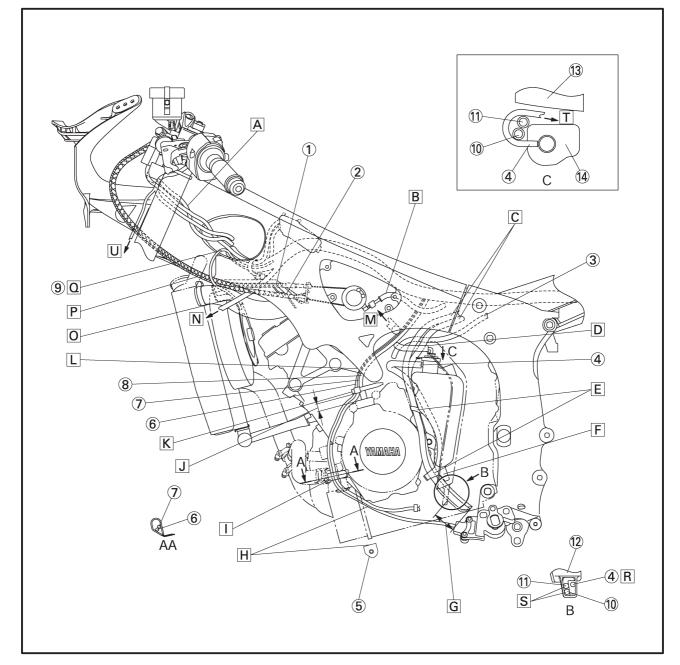
- A Pass the main switch lead under the left handlebar switch lead and immobilizer unit lead and then to the right side of the vehicle.
- B Pass the throttle stop cable by the left side of the side stand switch lead, oil level switch lead, A.C. magneto lead and then to the right side of the vehicle.
- C Pass the fuel tank drain hose and fuel tank breather hose inside of the reservoir tank breather hose, reservoir tank hose and wire harness and then route it by the out side of the starter motor lead.
- D Pass the coolant reservoir tank hose outside of the fuel tank drain hose and fuel tank breather hose.



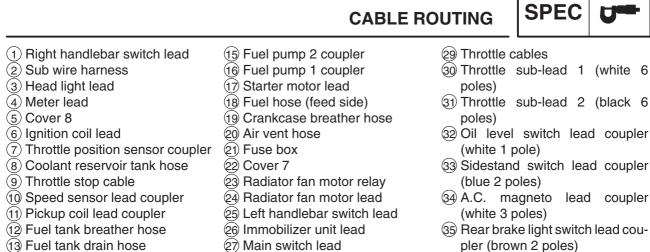
- E Pass the fuel tank drain hose, fuel tank breather hose through the clamp of the coolant reservoir tank.
- F Pass the coolant reservoir tank breather hose through the clamp of under the coolant reservoir tank.
- G Projection allowance from the coolant reservoir tank cover shall be 30 to 50 mm (1.18 \sim 1.97 in).
- H Pass the oil level switch lead and sidestand switch lead over the bracket 2.
- Pass the oil level switch lead, and sidestand switch lead through the clamp.
- \boxed{J} 5 ~ 45 mm (0.20 ~ 1.77 in).
- K Clamp the A.C. magneto lead, oil level switch lead and sidestand switch lead.



- L Pass the side stand switch lead, oil level switch lead and A.C. magneto lead between the engine stay and the engine.
- M To the throttle body
- N To the radiator fan motor relay and fuse box
- O Route it above the radiator hose.
- P Pass the throttle cable between the guide of the cover 2 and the frame.
- Q Pass the radiator fan motor lead through the hole of the frame to the inner side of the vehicle.
- R Pass the coolant reservoir tank breather hose through the hole of the coolant reservoir tank cover.
- S Order of ups and downs means no object.
- \square Route it below the coolant reservoir thank.
- U To the horn

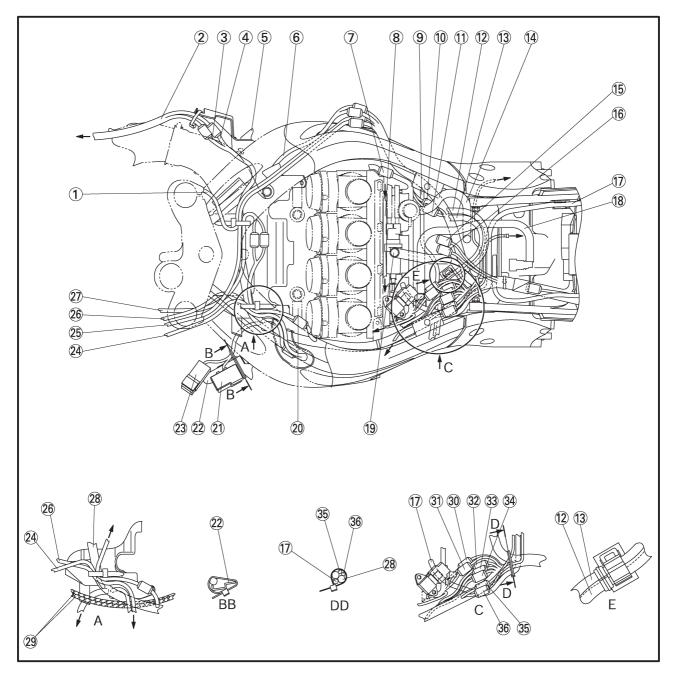


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- (14) Fuel hose (return side)
- 28 Wire harness

- (31) Throttle sub-lead 2 (black 6)
- 32 Oil level switch lead coupler
- 33 Sidestand switch lead coupler
- 34 A.C. magneto lead coupler
- 35 Rear brake light switch lead coupler (brown 2 poles)
- 36 Neutral switch lead coupler (connector 1 pole)



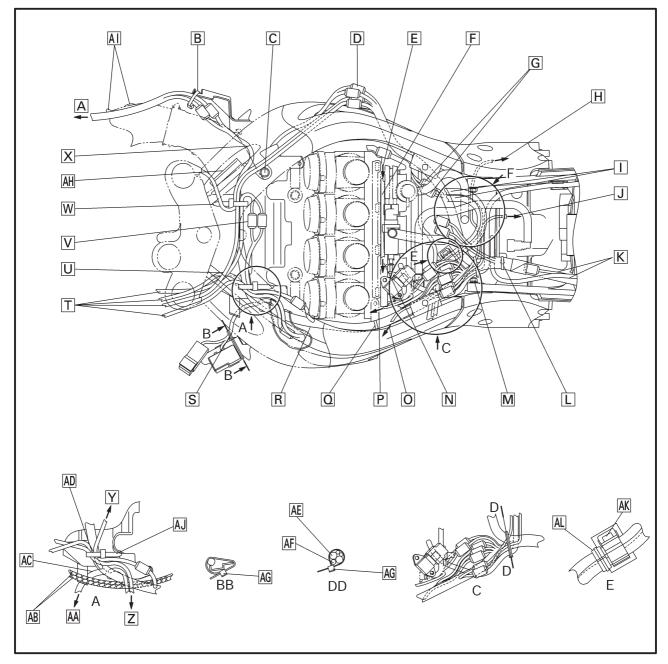
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- A To the headlight
- B Clamp the plastic locking tie to the cover 8. Place the coupler at the rear side of the vehicle against the plastic locking tie. Point the tip of the plastic locking tie to the downward in the inner side of the vehicle.
- C Pass the left and right handlebar switch leads outside of the air filter case air vent hose.
- D Connect the couplers (4 units) at the frame side hole. Do not catch each lead and wire harness when the cover 8 is attached.
- E From the radiator
- F Pass the coolant reservoir tank hose through forward the starter motor lead and speed sensor lead.
- G Pass the speed sensor lead coupler and crankshaft position sensor lead coupler over the throttle stop cable.

- \mathbb{H} To the rear brake light switch lead
- Pass the fuel tank breather hose and fuel tank drain hose over the fuel hose and fuel return hose.
- One rotation is possible for a twist of fuel tank breather hose and fuel tank drain hose before an engine clamp.
- J To the neutral switch
- K Pass the battery negative lead over the wire harness.
- L Insert the wire harness wrapping clamp to the frame hole.
- M There should be no interference between the wire harness and the tip of the rear frame attaching bolts.

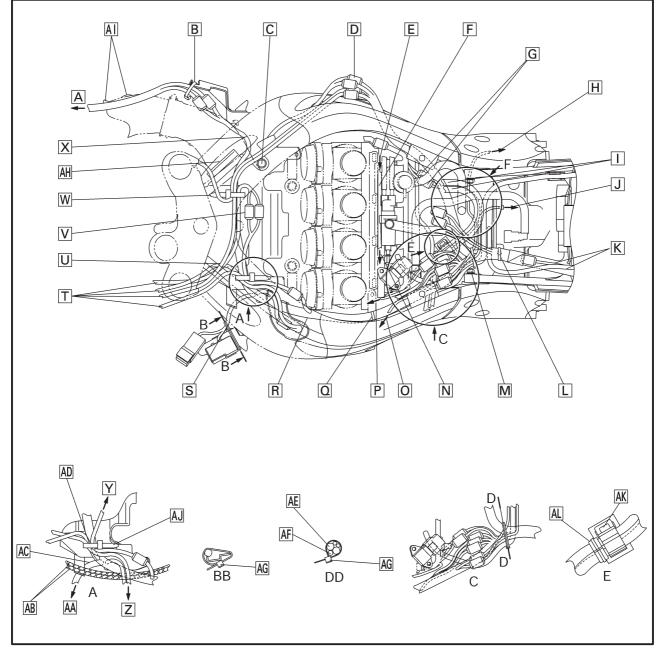


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- N To the coolant reservoir tank
- O To the oil level switch, sidestand switch and A.C. magneto
- P To the intake temperature sensor (air filter case)
- Q Install the wire harness wrapping clamp to the stay of the throttle body.
- R Pass the wire harness over the throttle air vent hose.
- S Pass the wire harness between frame and coolant hose.
- \square Pass it through the frame hole.
- U Pass the left handlebar switch lead and main switch lead over the immobilizer unit lead.
- V Do not catch the coupler when the air filter case is assembled.

- W Clamp the wire harness, left and right handlebar switch leads and main switch lead. Align the tapping positions of three leads except the wire harness. Point the tip of the clamp to the front side of the vehicle.
- X Route the head light and meter leads under the frame's lower part from the hollow section of the cover 2.
- Y To the main switch lead coupler
- Z To the immobilizer unit coupler
- AA To the fuse box and fan motor relay
- AB Pass the throttle cables over the cover 2.
- AC Branching leads to the fuse box and radiator fan motor relay shall pass through the guide section of the cover 2 under the wire harness and then to the outside of the frame.

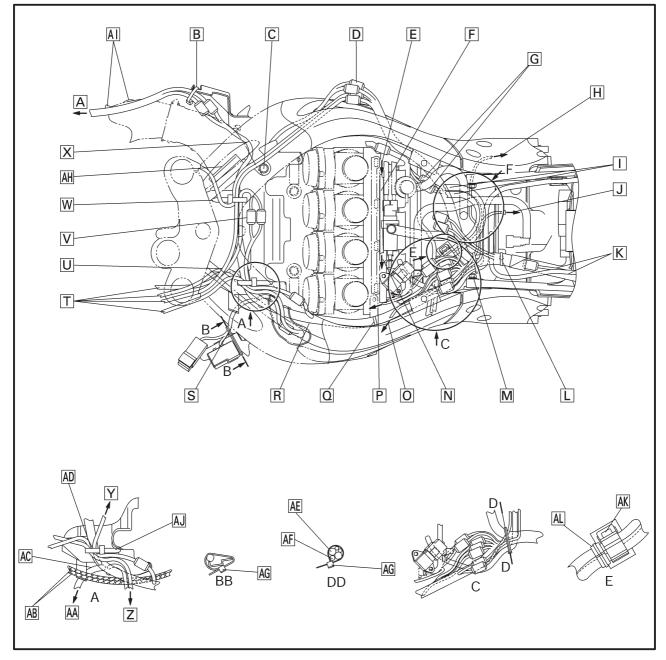


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- AD Clamp the wire harness, main switch lead branch section, radiator fan motor lead and immobilizer unit lead. Align the taping position of the immobilizer unit lead.
- AE Branching harness from the wire harness.
- AF Use the plastic locking tie to clamp the starter motor lead at the protector section.
- AG Tip of the plastic locking tie should point to the downward outside of the vehicle.
- AH Sealing set of the cover can be either upper or lower against the frame lower end. However, it should not be caught.
- Al Make sure not to drop the headlight sub wire harness beneath the projection of the duct. Check it when installing the side cowling.
- AJ Point the tip of the plastic locking tie to the rear side of the vehicle.

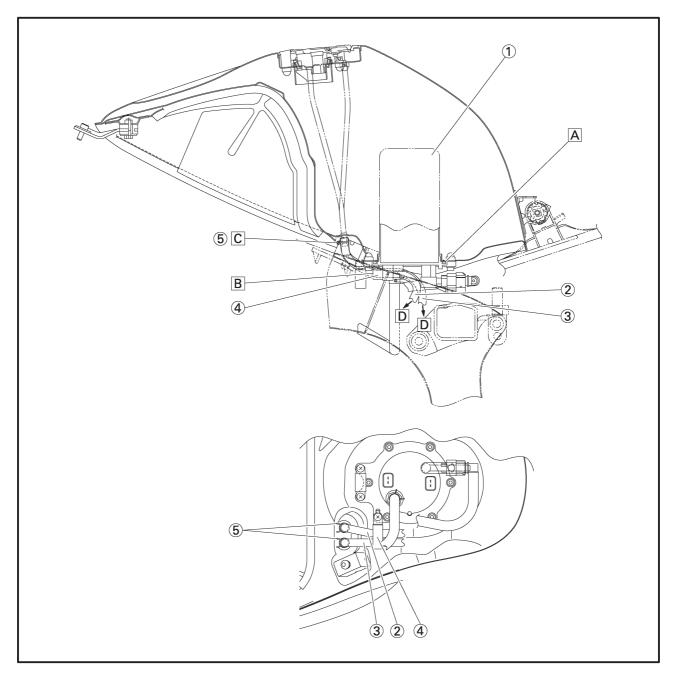
- AK Insert until it sets.
- AL The clamp by the side of a hose comes below an attachment clamp.



CABLE ROUTING



- A Install the O-ring with its lip pointed upward.
- B Pass the fuel tank drain hose and fuel tank breather hose through the clamp. There needs to be no crookedness in fuel tank drain hose and fuel tank breather hose between fuel tank's nipple and clamp.
- \fbox Direction of which is sufficient as the knob of a clip.
- D Air opening

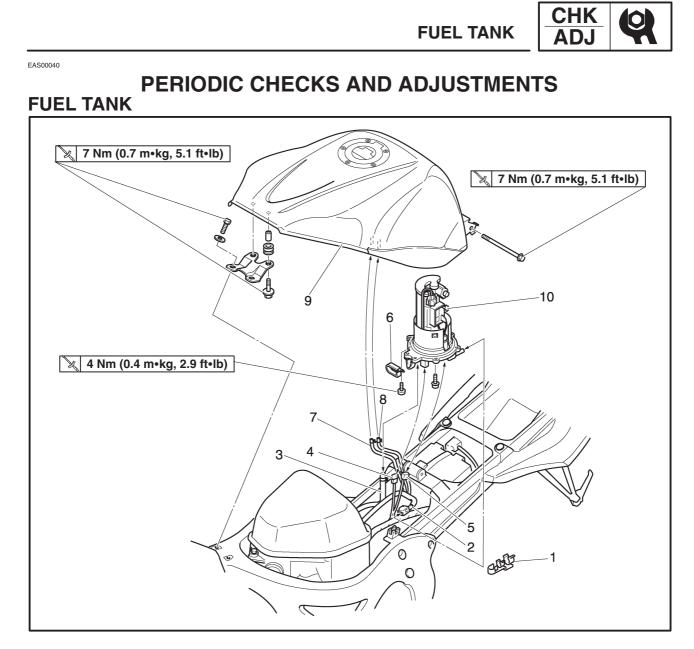


Fuel pump assembly
Fuel tank drain hose

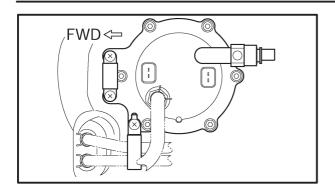
(4) Clamp

(5) Clip

③ Fuel tank breather hose



Order	Job/Part	Q'ty	Remarks
1 2 3 4 5 6 7 8 9 10	Removing the fuel tank Rider seat Fuel hose connector cover Fuel hose Fuel return hose Fuel sender coupler Fuel sender coupler Clamp Fuel tank overflow hose Fuel tank breather hose Fuel tank Fuel pump	1 1 1 1 1 1 1 1 1	Remove the parts in the order listed. Refer to "SEATS". Disconnect. Disconnect. For installation, reverse the removal procedure. Refer to the CABLE ROUTING for how to attach a hose.



FUEL TANK



INSTALLING THE FUEL PUMP

Install:
fuel pump

🔌 4 Nm (0.4 m•kg, 2.9 ft•lb)

NOTE: -

- Do not damage the installation surfaces of the fuel tank when installing the fuel pump.
- Always use a new fuel pump gasket.
- Install the fuel pump as shown in the illustration.
- Tighten the fuel pump bolts in stages in a crisscross pattern and to the specified torque.

AIR INDUCTION SYSTEM



FUEL INJECTION SYSTEM

AIR INDUCTION SYSTEM

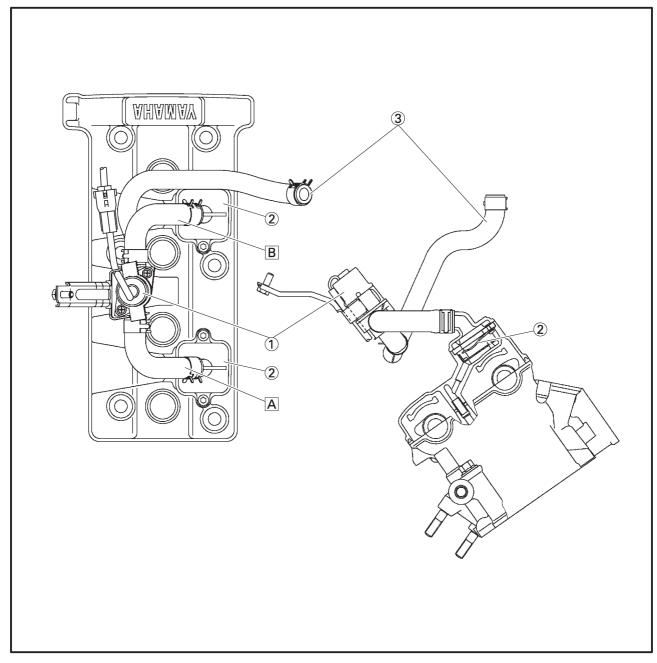
AIR INDUCTION SYSTEM DIAGRAMS

1 Air cut-off valve

2 Reed valve

 $(\overline{3})$ To air filter case

A To cylinder #1 and #2 B To cylinder #3 and #4



ELECTRICAL COMPONENTS

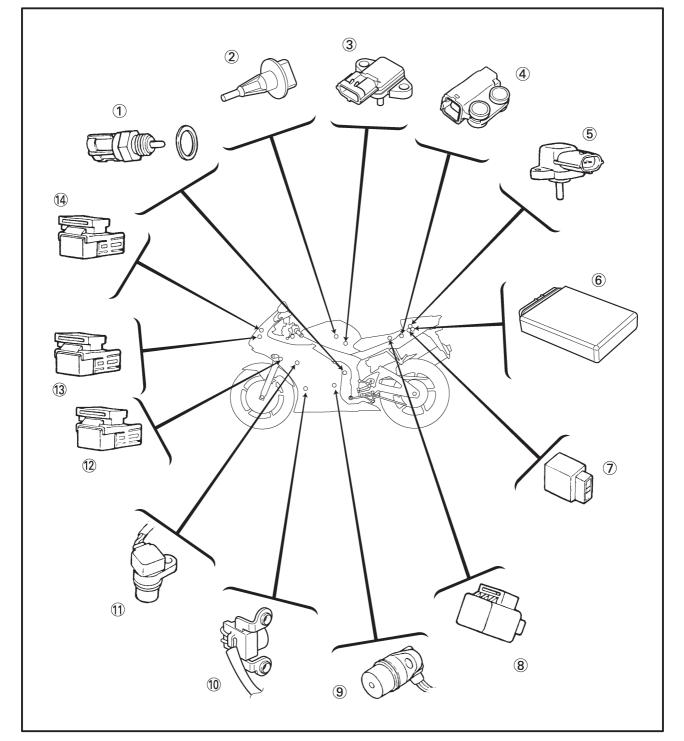


ELECTRICAL

ELECTRICAL COMPONENTS

- 1 Coolant temperature sensor
- 2 Intake air temperature sensor
- (3) Intake air pressure sensor
- 4 Lean angle cut-off switch
- (5) Atmospheric pressure sensor
- 6 ECU
- (7) Starting circuit cut-off relay
- 8 Turn signal relay

- (9) Speed sensor
- 10 Crankshaft position sensor
- (1) Cylinder identification sensor
- 12 Radiator fan motor relay
- (13) Headlight relay (on/off)
- (14) Headlight relay (dimmer)

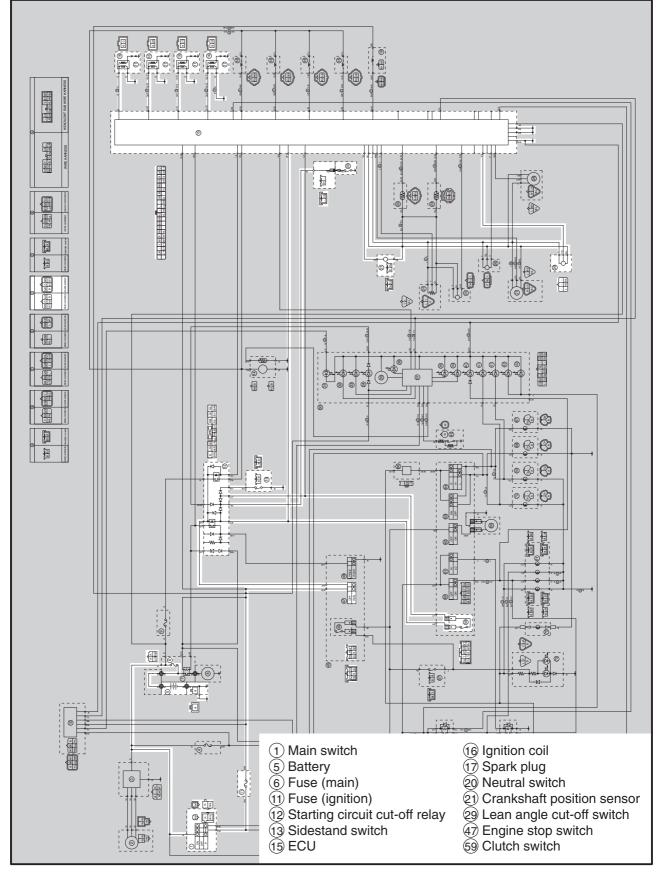


IGNITION SYSTEM



IGNITION SYSTEM CIRCUIT DIAGRAM

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IGNITION SYSTEM



TROUBLESHOOTING

The ignition system fails to operate (no spark or intermittent spark).

Check:

EAS00737

- 1. Main and ignition fuses
- 2. Battery
- 3. Spark plugs
- 4. Ignition spark gap
- 5. Ignition coil resistance
- 6. Crankshaft position sensor
- 7. Main switch
- 8. Engine stop switch
- 9. Neutral switch
- 10. Sidestand switch
- 11. Clutch switch
- 12. Starting circuit cut-off relay
- 13. Lean angle cut-off switch
- 14. Wiring connections (of the entire ignition system)

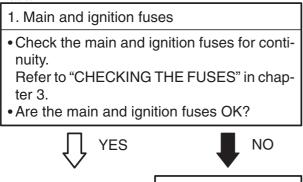
NOTE: -

- Before troubleshooting, remove the following part(s):
- 1. seat
- 2. fuel tank
- 3. air filter case
- 4. bottom cowling
- 5. side cowlings
- Troubleshoot with the following special tool(s).

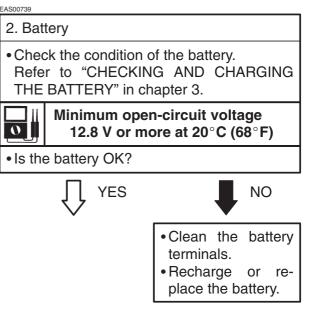
Dynamic spark tester YM-34487 Ignition checker 90890-06754

Pocket tester 90890-03112, YU-3112

EAS00738



Replace the fuse(s).

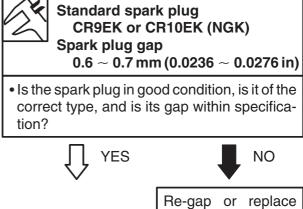


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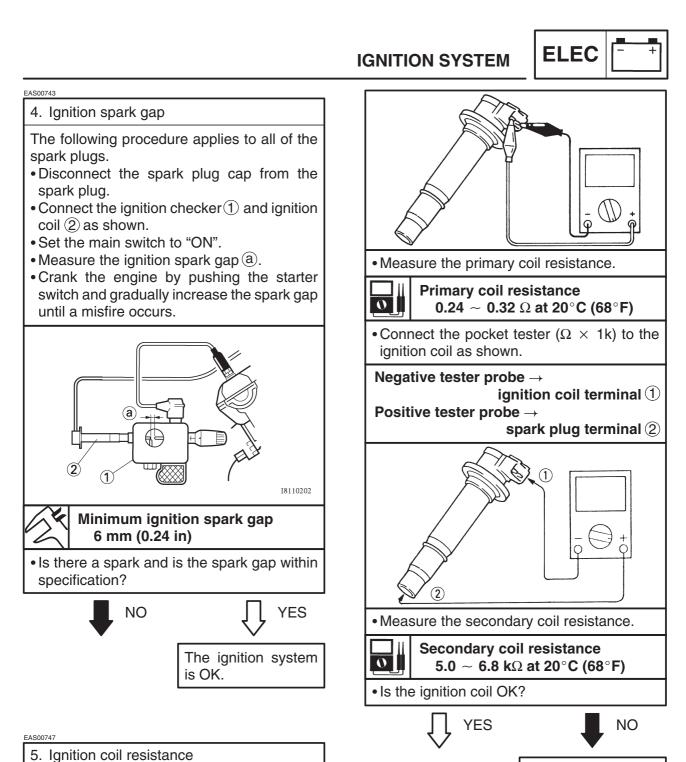
3. Spark plugs

The following procedure applies to all of the spark plugs.

- Check the condition of the spark plug.
- Check the spark plug type.
- Measure the spark plug gap. Refer to "CHECKING THE SPARK PLUGS" in chapter 3.



the spark plug.

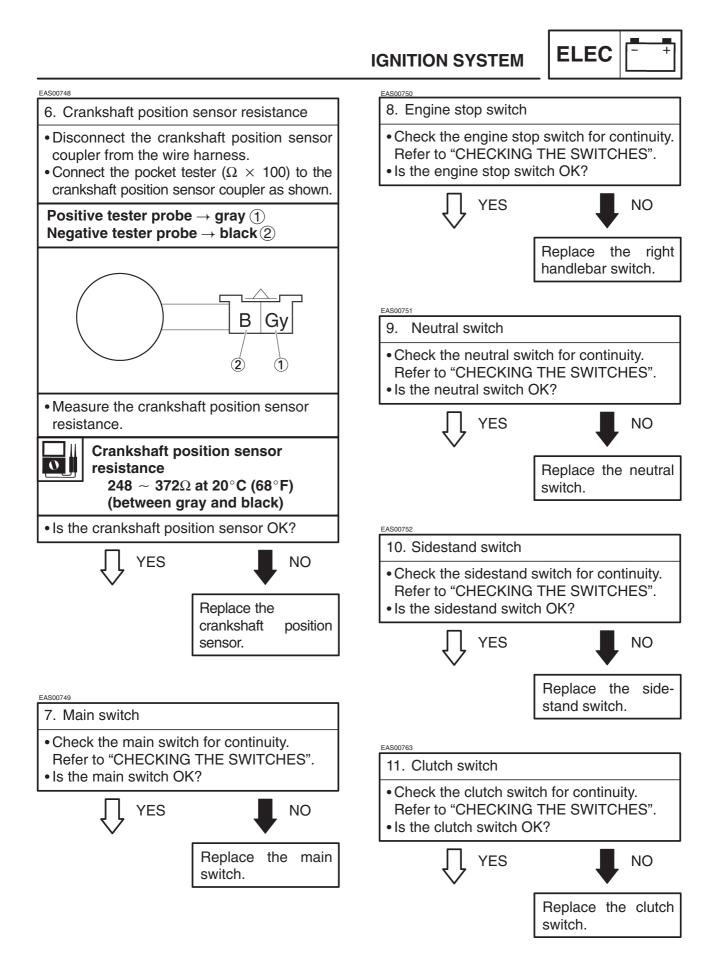


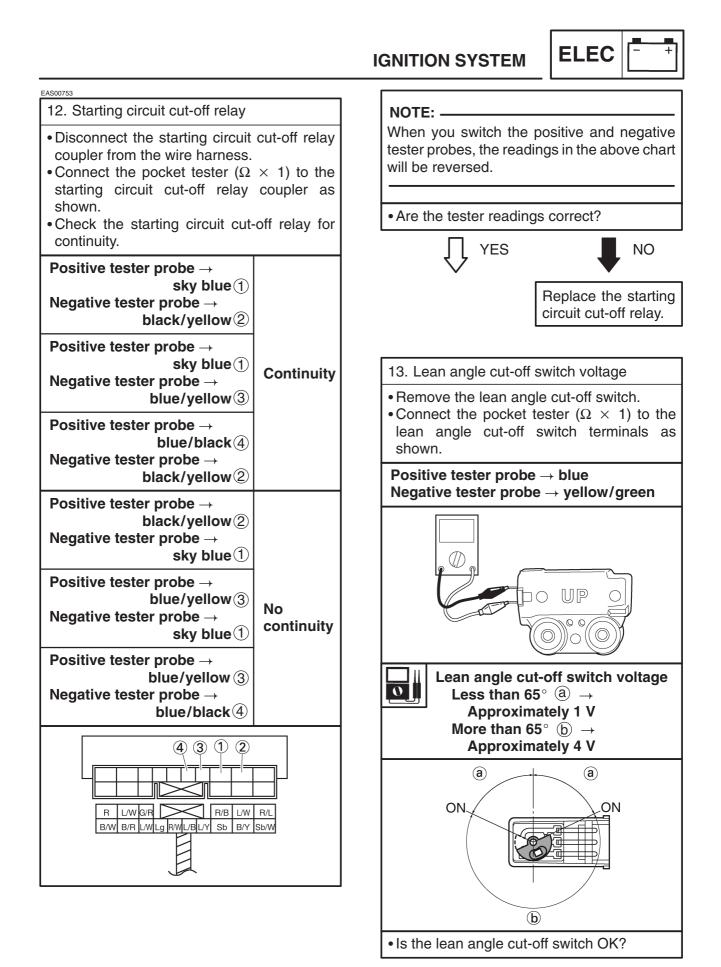
The following procedure applies to all of the ignition coils.

- Disconnect the ignition coil leads from the wire harness.
- Connect the pocket tester ($\Omega \times 1$) to the ignition coil as shown.

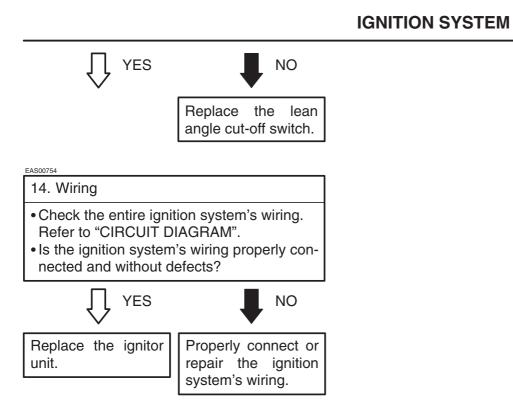
Positive tester probe \rightarrow ignition coil terminal

Negative tester probe → ignition coil terminal Replace the ignition coil.





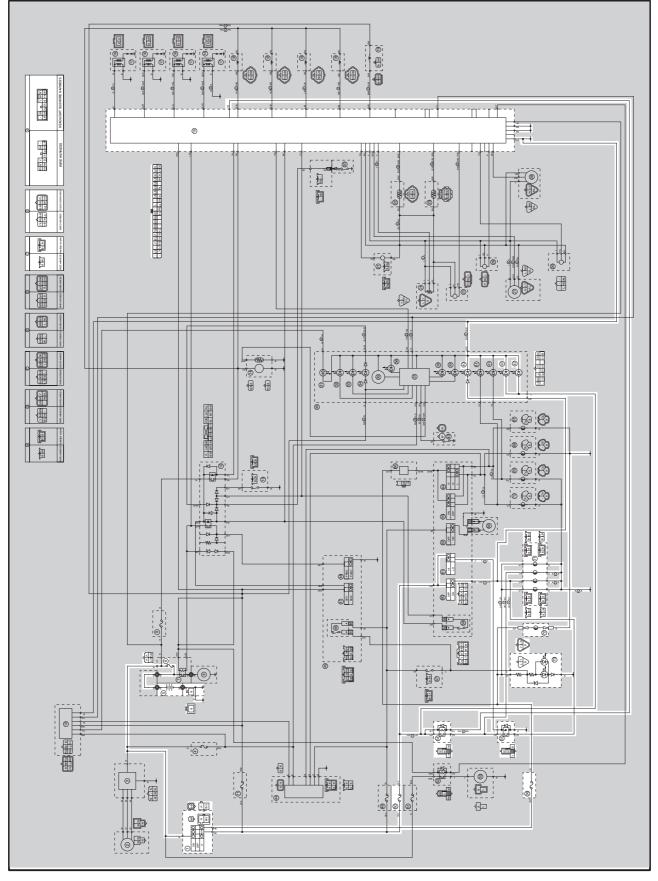
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LIGHTING SYSTEM



LIGHTING SYSTEM CIRCUIT DIAGRAM

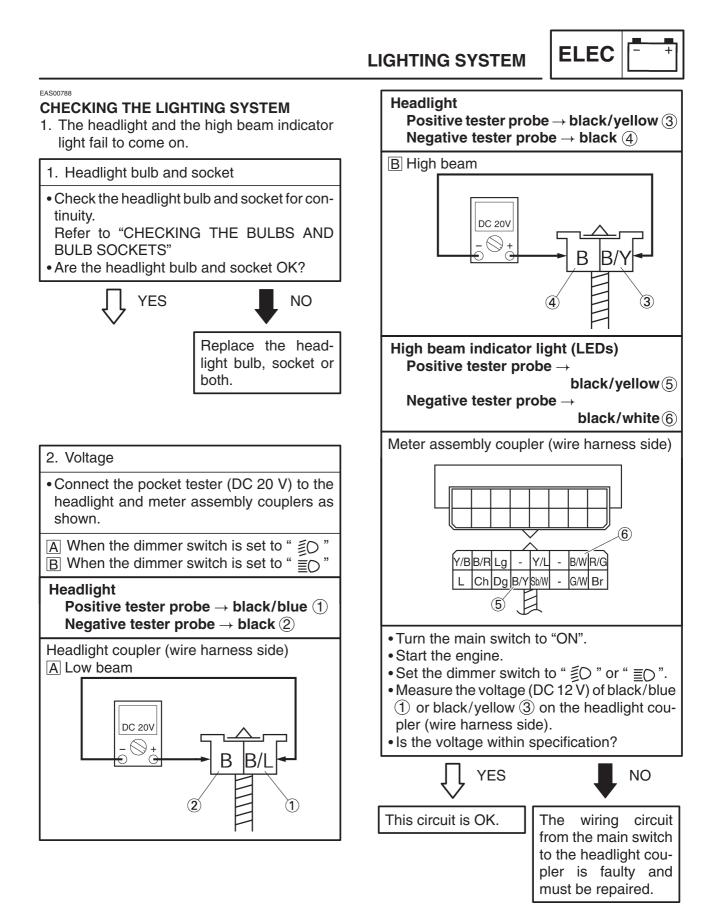


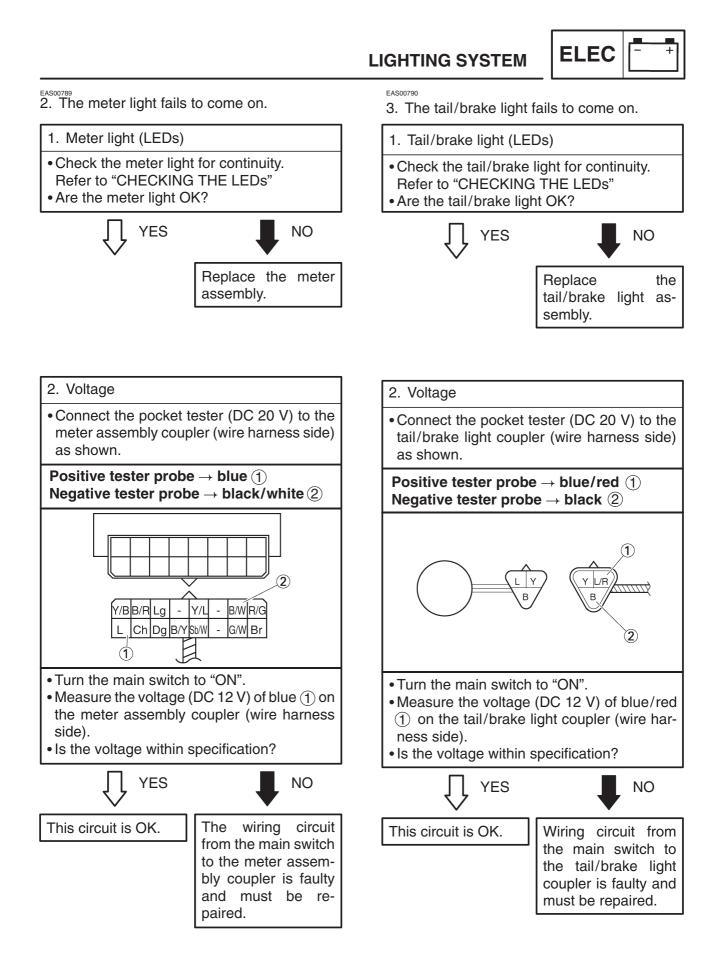
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LIGHTING SYSTEM



- 1 Main switch
- 5 Battery 6 Fuse (main)
- 15 ECU
- (40) High beam indicator light
- 42 Meter light
- 50 Fuse (headlight)54 Headlight relay (on/off)
- (55) Headlight relay (dimmer)
- 56 Fuse (park)
- 60 Pass switch
- 61 Dimmer switch
- (71) Headlight
- 72 License light
- 73 Tail/brake light





ELEC LIGHTING SYSTEM 4. The license light fails to come on. 1. License light bulb and socket • Check the license light bulb and socket for continuity. Refer to "CHECKING THE BULBS AND BULB SOCKETS" • Are the license light bulb and socket OK? NO YES Replace the license light bulb, socket or both. 2. Voltage • Connect the pocket tester (DC 20 V) to the license light coupler (wire harness light side) as shown. Positive tester probe \rightarrow blue/red (1) Negative tester probe \rightarrow black (2) $\hat{\mathbf{1}}$ (2)• Turn the main switch to "ON". • Measure the voltage (DC 12 V) of blue/red (1) on the license light coupler (wire harness side). Is the voltage within specification? YES NO This circuit is OK. The wiring circuit from the main switch to the license light coupler is faulty and must be repaired.

YZF-R6 (S) 2004 WIRING DIAGRAM

(1) Main switch (2) A.C. magneto 3 Rectifier/regulator (4) Fuse (back up) (5) Battery 6 Fuse (main) (7) Starter relay (8) Starter motor (9) Fuse (fuel injection) (10 Immobilizer unit (11) Fuse (ignition) 12 Starting circuit cut-off relay (13) Sidestand switch (14) Fuel pump (15) ECU (16) Ignition coil (17) Spark plug (18) Injector (19) AI system solenoid 20 Neutral switch (21) Crankshaft position sensor 22 Intake air temperature sensor 23 Coolant temperature sensor (24) Throttle position sensor 25 Intake air pressure sensor 26 Atmospheric pressure sensor (27) Cylinder identification sensor 28 Speed sensor 29 Lean angle cut-off switch 30 Meter assembly (31) Immobilizer indicator light 32 Fuel level waning light 33 Oil level warning light 34 Neutral indicator light 35 Tacho meter 36 Engine speed indicator light (37) Multi-function meter (38) Engine trouble warning light 39 Coolant temperature indicator light 40 High beam indicator light (41) Turn signal indicator light (42) Meter light (43) Oil level switch (44) CYCLE LOCK (45) Right handlebar switch (46) Front brake light switch (47) Engine stop switch (48) Start switch (49) Fuse (signal) (50) Fuse (headlight) (51) Fuse (radiator fan motor) (52) Radiator fan motor relay (53) Radiator fan motor (54) Headlight relay (on/off) (55) Headlight relay (dimmer) (56) Fuse (park) (57) Rear brake light switch 58 Left handlebar switch 59 Clutch switch 60 Pass switch email info@motomatrix.co.uk

63 Hazard switch (64) Turn signal switch (65) Horn 66 Turn signal relay 67 Rear turn signal light (right) 68 Rear turn signal light (left) (69) Front turn signal light (right) 70 Front turn signal light (left) (71) Headlight (72) License light (73) Tail/brake light **COLOR CODE** B Black Br Brown Ch Chocolate Dg Dark green G Green Gy Gray L Blue Lg Light green O Orange P Pink R.... Red Sb Sky blue W White Y Yellow B/G Black/Green B/L Black/Blue B/R Black/Red B/W Black/White B/Y Black/Yellow Br/G ... Brown/Green Br/L Brown/Blue Br/R Brown/Red Br/W ... Brown/White G/B Green/Black G/W.... Green/White G/Y Green/Yellow Gy/G ... Gray/Green Gy/R ... Gray/Red L/B Blue/Black L/R Blue/Red L/W Blue/White L/Y Blue/Yellow O/B Orange/Black O/G Orange/Green P/W Pink/White R/B Red/Black R/G Red/Green R/L Red/Blue R/W Red White R/Y Red/Yellow Sb/W ... Sky blue/White W/B White/Black W/R White/Red W/Y White/Yellow Y/B Yellow/Black Y/G Yellow/Green Y/L.... Yellow/Blue Y/W Yellow/White



