



YAMAHA

2003

TDM900(R)

5PS1-AE2

**SUPPLEMENTARY
SERVICE MANUAL**

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the TDM900 (R) 2003. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

| |
|---|
| TDM900 (N) 2001 SERVICE MANUAL: 5PS1-AE1 |
|---|

| |
|--|
| <p>TDM900 (R) 2003 SUPPLEMENTARY SERVICE MANUAL ©2002 by Yamaha Motor Co., Ltd. First Edition, September 2002 All rights reserved. Any reproduction or unauthorized use without the written permission of Yamaha Motor Co., Ltd. is expressly prohibited.</p> |
|--|

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!



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.

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”.

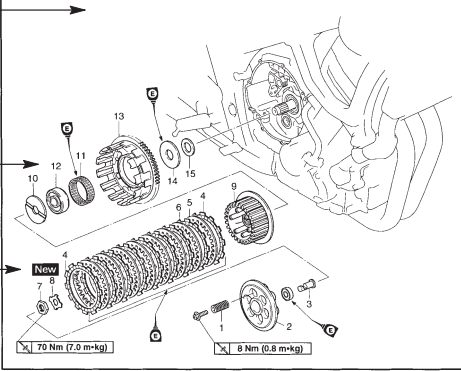
⑦ A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

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

② ①

CLUTCH ENG 

CLUTCH



④


⑤

⑥

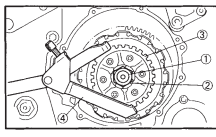
⑦

| Order | Job/Part | Q'ty | Remarks |
|----------------------------|------------------|------|---------------------------------------|
| Removing the clutch | | | |
| 1 | Clutch spring | 6 | Remove the parts in the order listed. |
| 2 | Pressure plate | 1 | |
| 3 | Pull rod | 1 | |
| 4 | Friction plate 1 | 2 | |
| 5 | Clutch plate | 8 | |
| 6 | Friction plate 2 | 7 | |
| 7 | Nut | 1 | |
| 8 | Lock washer | 1 | |
| 9 | Clutch boss | 1 | |
| 10 | Thrust plate | 1 | |
| 11 | Bearing | 1 | |
| 12 | Spacer | 1 | |
| 13 | Clutch housing | 1 | |

5-42

CLUTCH ENG 

CLUTCH




③

⑧

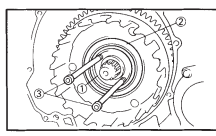
REMOVING THE CLUTCH

1. Straighten the lock washer tab.
2. Loosen:
 - clutch boss nut ①

NOTE:
While holding the clutch boss ③ with the universal clutch holder ④, loosen the clutch boss nut.

 Universal clutch holder
90890-04086

3. Remove:
 - lock washer ②
 - Clutch boss ③



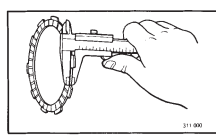
4. Remove:
 - spacer ①
 - bearing ②

NOTE:
Insert two 6-mm bolts ③ into the spacer and then remove the spacer by pulling on the bolts.

















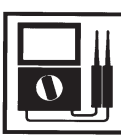







CHECKING THE FRICTION PLATES
The following procedure applies to all of the friction plates.

1. Check:
 - friction plate
 Damage/wear → Replace the friction plates as a set.
2. Measure:
 - friction plate thickness
 Out of specification → Replace the friction plates as a set.

NOTE:
Measure the friction plate at four places.

 Friction plate thickness
2.9 – 3.1 mm
<Limit>: 2.8 mm

5-44

| | | | | | |
|---|---|--|---|--|--|
| ① | GEN INFO  | | ② | SPEC  | |
| ③ | CHK ADJ  | | ④ | CHAS  | |
| ⑤ | ENG  | | ⑥ | COOL  | |
| ⑦ | FI  | | ⑧ | ELEC  | |
| ⑨ | TRBL SHTG  | | ⑩ |  | |
| ⑪ |  | | ⑫ |  | |
| ⑬ |  | | ⑭ |  | |
| ⑮ |  | | ⑯ |  | |
| ⑰ |  | | ⑱ |  | |
| ⑲ |  | | ⑳ |  | |
| ㉑ |  | | ㉒ |  | |
| ㉓ |  | | ㉔ |  | |
| ㉕ | New | | | | |

EAS00008

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
- ⑪ Filling fluid
- ⑫ Lubricant
- ⑬ Special tool
- ⑭ Tightening torque
- ⑮ 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
- ㉑ Molybdenum-disulfide oil
- ㉒ Wheel-bearing grease
- ㉓ Lithium-soap- based grease
- ㉔ Molybdenum-disulfide grease

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

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

CONTENTS

SPECIFICATIONS

| | |
|------------------------------|---|
| GENERAL SPECIFICATIONS | 1 |
| ENGINE SPECIFICATIONS | 1 |
| CHASSIS SPECIFICATIONS | 1 |

ELECTRICAL

| | |
|---|----|
| CHECKING THE SWITCHES | 2 |
| ELECTRIC STARTING SYSTEM | 3 |
| CIRCUIT DIAGRAM | 3 |
| STARTING CIRCUIT CUT-OFF SYSTEM OPERATION | 5 |
| TROUBLESHOOTING | 6 |
| LIGHTING SYSTEM | 10 |
| CIRCUIT DIAGRAM | 10 |
| TROUBLESHOOTING | 12 |

TROUBLESHOOTING

| | |
|----------------------------------|----|
| FAULTY LIGHTING SYSTEM | 14 |
| HEADLIGHT DOES NOT COME ON | 14 |
| HEADLIGHT BULB BURNT OUT | 14 |

TDM900 (R) 2003 WIRING DIAGRAM (EUR)

TDM900 (R) 2003 WIRING DIAGRAM (OCE)



SPECIFICATIONS

GENERAL SPECIFICATIONS

| Item | Standard | Limit |
|-------------------|--------------------------|------------|
| Model code | 5PS4 (EUR) 5PS5 (OCE) | ... ... |

ENGINE SPECIFICATIONS

| Item | Standard | Limit |
|---|--------------------|-------|
| Throttle bodies | | |
| Model (manufacturer) × quantity | 38EIS (MIKUNI) × 2 | ... |
| Intake vacuum pressure | 33 ~ 36 kPa | ... |
| Throttle cable free play (at the flange of the throttle grip) | 3 ~ 5 mm | ... |
| ID mark | 5PS1 10 | ... |
| Throttle valve size | #50 | ... |

CHASSIS SPECIFICATIONS

| Item | Standard | Limit |
|-----------------------|---|--------|
| Front tire | | |
| Tire type | Tubeless | ... |
| Size | 120/70ZR 18 M/C (59W) | ... |
| Model (manufacturer) | MEZ4 FRONT (METZELER)/ D220FSTJ (DUNLOP) | ... |
| Tire pressure (cold) | | |
| 0 ~ 90 kg | 225 kPa (2.25 kgf/cm ² , 2.25 bar) | ... |
| 90 ~ 203 kg | 225 kPa (2.25 kgf/cm ² , 2.25 bar) | ... |
| High-speed riding | 225 kPa (2.25 kgf/cm ² , 2.25 bar) | ... |
| Min. tire tread depth | ... | 1.6 mm |
| Rear tire | | |
| Tire type | Tubeless | ... |
| Size | 160/60ZR 17 M/C (69W) | ... |
| Model (manufacturer) | MEZ4 (METZELER)/ D220STJ (DUNLOP) | ... |
| Tire pressure (cold) | | |
| 0 ~ 90 kg | 250 kPa (2.5 kgf/cm ² , 2.5 bar) | ... |
| 90 ~ 203 kg | 290 kPa (2.9 kgf/cm ² , 2.9 bar) | ... |
| High-speed riding | 250 kPa (2.5 kgf/cm ² , 2.5 bar) | ... |
| Min. tire tread depth | ... | 1.6 mm |



EAS00731

ELECTRICAL

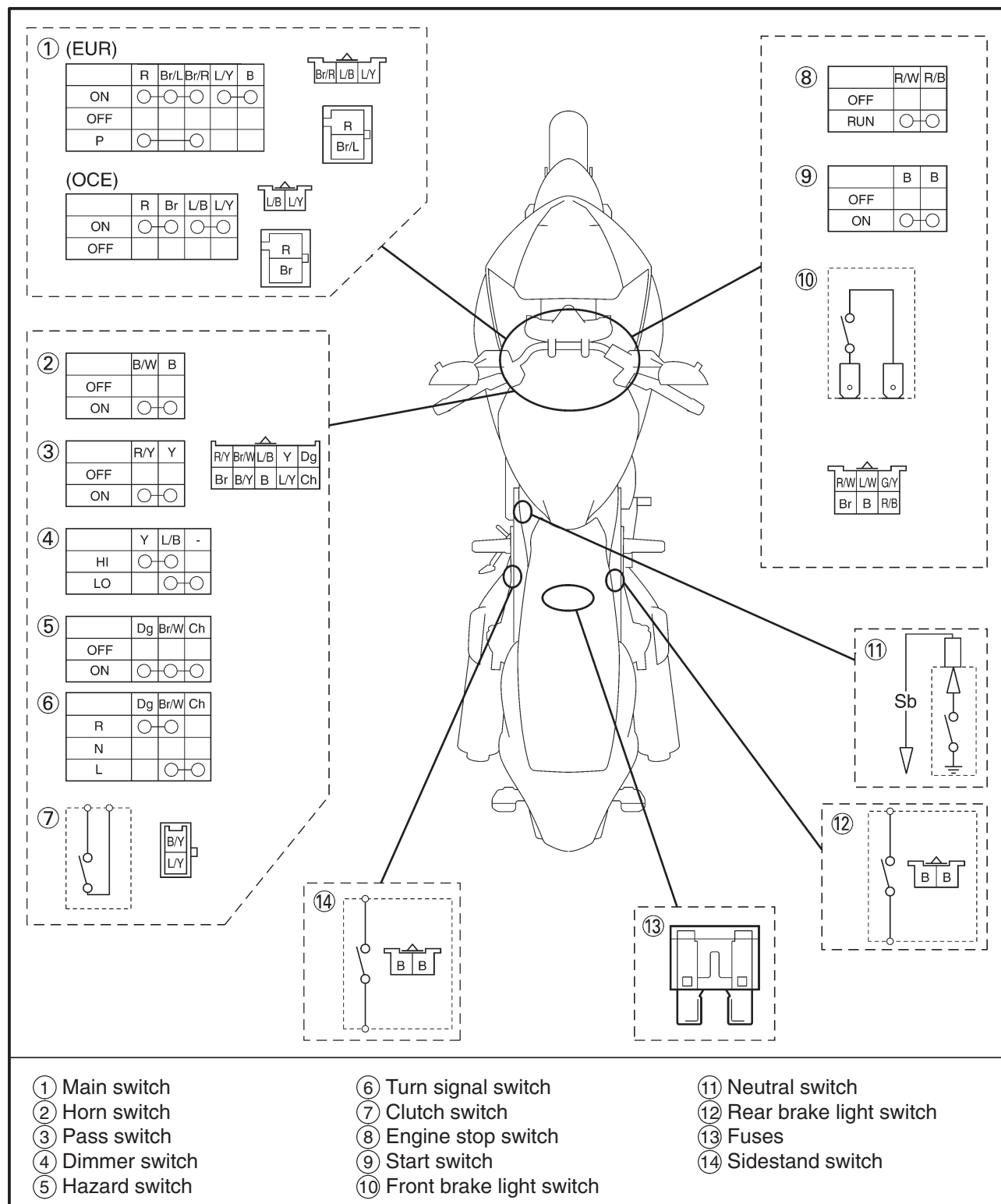
CHECKING THE SWITCHES

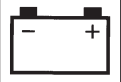
Check each switch for damage or wear, proper connections, and also for continuity between the terminals. Refer to “CHECKING SWITCH CONTINUITY”.

Damage/wear → Repair or replace.

Improperly connected → Properly connect.

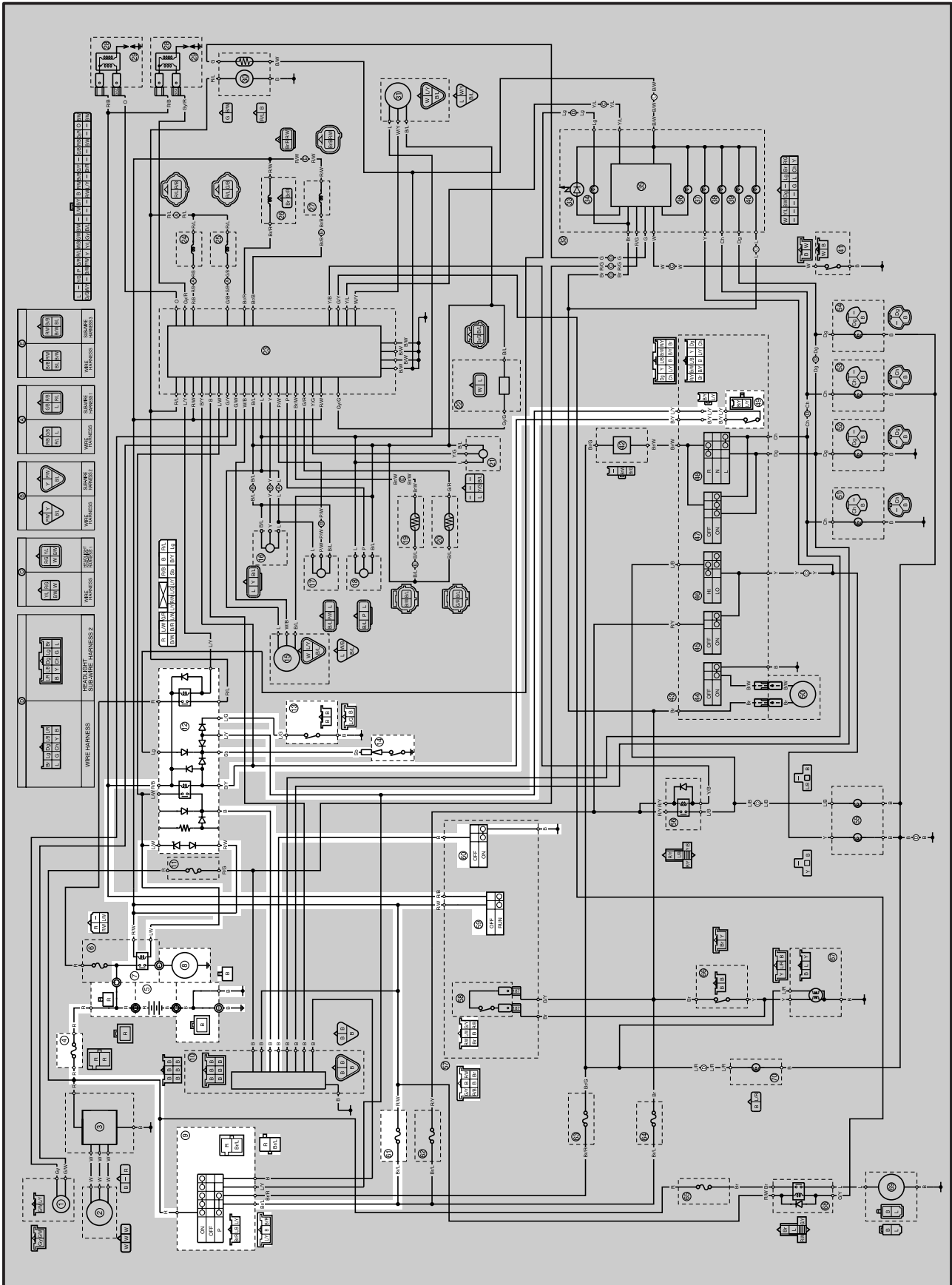
Incorrect continuity reading → Replace the switch.





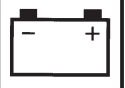
EAS00755

ELECTRIC STARTING SYSTEM CIRCUIT DIAGRAM

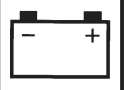


ELECTRIC STARTING SYSTEM

ELEC



- ④ Main fuse
- ⑤ Battery
- ⑦ Starter relay
- ⑧ Starter motor
- ⑨ Main switch
- ⑫ Starting circuit cut-off relay
- ⑬ Sidestand switch
- ⑭ Neutral switch
- ④⑨ Clutch switch
- ⑤⑨ Engine stop switch
- ⑥⑩ Start switch
- ⑥⑪ Ignition fuse



EAS00756

STARTING CIRCUIT CUT-OFF SYSTEM OPERATION

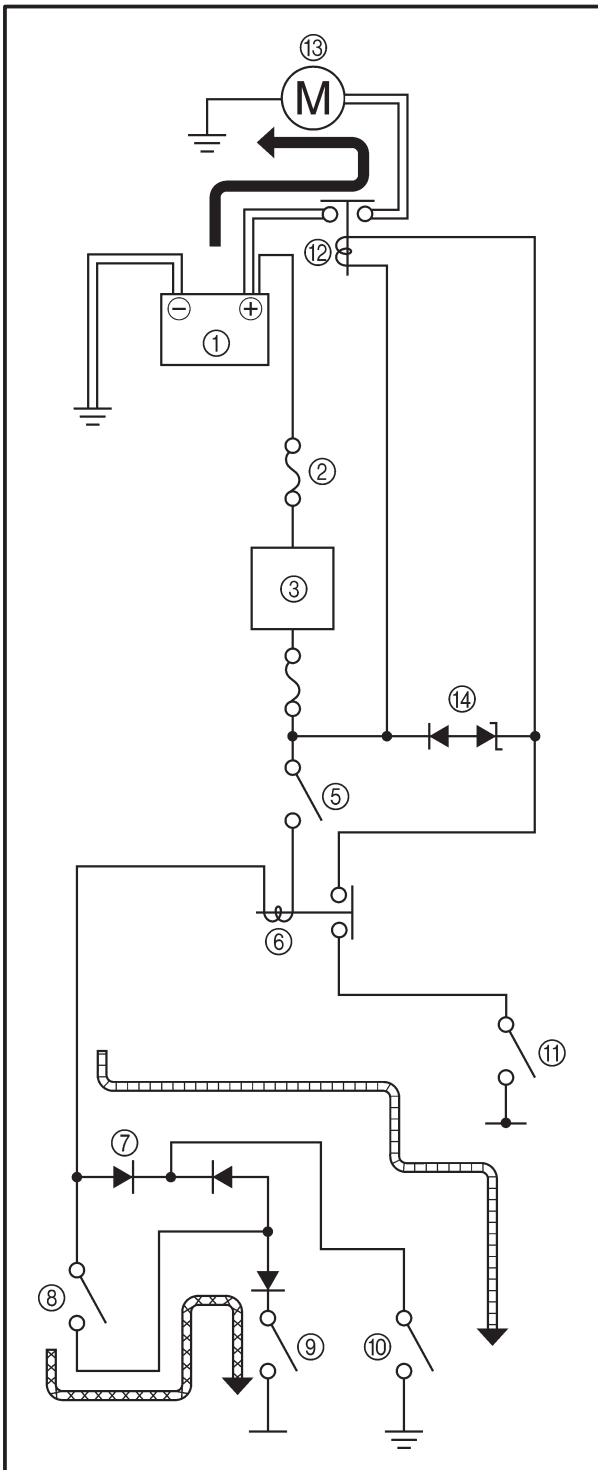
If the engine stop switch is set to “○” and the main switch is set to “ON” (both switches are closed), the starter motor can only operate if at least one of the following conditions is met:

- The transmission is in neutral (the neutral switch is closed).
- The clutch lever is pulled to the handlebar (the clutch switch is closed) and the side-stand is up (the sidestand switch is closed).

The starting circuit cut-off relay prevents the starter motor from operating when neither of these conditions has been met. In this instance, the starting circuit cut-off relay is open so current cannot reach the starter motor. When at least one of the above conditions has been met the starting circuit cut-off relay is closed and the engine can be started by pressing the starter switch.

← WHEN THE TRANSMISSION IS IN NEUTRAL

← WHEN THE SIDESTAND IS UP AND THE CLUTCH LEVER IS PULLED TO THE HANDLEBAR



- ① Battery
- ② Main fuse
- ③ Main switch
- ④ Ignition fuse
- ⑤ Engine stop switch
- ⑥ Starting circuit cut-off relay
- ⑦ Diode (starting circuit cut-off relay)
- ⑧ Clutch switch
- ⑨ Sidestand switch
- ⑩ Neutral switch
- ⑪ Start switch
- ⑫ Starter relay
- ⑬ Starter motor
- ⑭ Diode (starting circuit cut-off relay)

ELECTRIC STARTING SYSTEM

ELEC



EAS00757

TROUBLESHOOTING

The starter motor fails to turn.

Check:

1. main and ignition fuses
2. battery
3. starter motor
4. starting circuit cut-off relay
5. diode
6. starter relay
7. main switch
8. engine stop switch
9. neutral switch
10. sidestand switch
11. clutch switch
12. start switch
13. wiring connections
(of the entire starting system)

NOTE:

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



Pocket tester
90890-03132

EAS00738

1. Main and ignition fuses

- Check the main and ignition fuses for continuity.
Refer to "CHECKING THE FUSES" in chapter 3. (Manual No.: 5PS1-AE1)
- Are the main and ignition fuses OK?



YES



NO

Replace the fuse(s).

EAS00739

2. Battery

- Check the condition of the battery.
Refer to "CHECKING AND CHARGING THE BATTERY" in chapter 3. (Manual No.: 5PS1-AE1)



Minimum open-circuit voltage
12.8 V or more at 20°C

- Is the battery OK?



YES



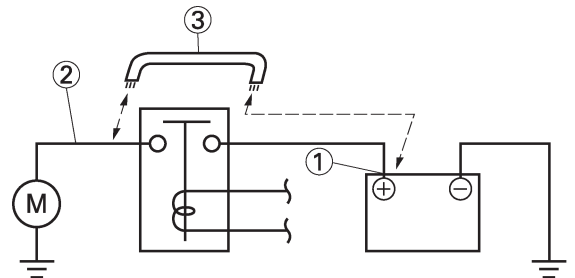
NO

- Clean the battery terminals.
- Recharge or replace the battery.

EAS00758

3. Starter motor

- Connect the positive battery terminal ① and starter motor lead ② with a jumper lead ③.



18210801

! WARNING

- A wire that is used as a jumper lead must have at least the same capacity or more as that of the battery lead, otherwise the jumper lead may burn.
- This check is likely to produce sparks, therefore make sure nothing flammable is in the vicinity.

- Does the starter motor turn?



YES

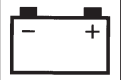


NO

Repair or replace the starter motor.

ELECTRIC STARTING SYSTEM

ELEC



EAS00759

4. Starting circuit cut-off relay

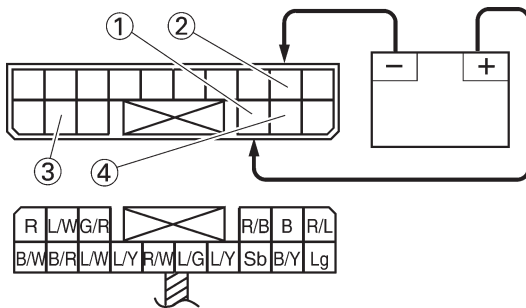
- Disconnect the starting circuit cut-off relay from the wire harness.
- Connect the pocket tester ($\Omega \times 1$) and battery (12 V) to the starting circuit cut-off relay terminals as shown.

Battery positive terminal → red/black ①

Battery negative terminal → black/yellow ②

Tester positive probe → blue/white ③

Tester negative probe → black ④



- Does the starting circuit cut-off relay have continuity between blue/white and black?

YES

NO

Replace the starting circuit cut-off relay.

EAS00760

5. Starting circuit cut-off relay (diode)

- Disconnect the starting circuit cut-off relay from the wire harness.
- Connect the pocket tester ($\Omega \times 1$) to the starting circuit cut-off relay terminals as shown.
- Measure the starting circuit cut-off relay for continuity as follows.

Tester positive probe → sky blue ①

Tester negative probe → black/yellow ②

Tester positive probe → sky blue ①

Tester negative probe → blue/yellow ③

Tester positive probe → blue/green ④

Tester negative probe → blue/yellow ③

Continuity

Tester positive probe → black/yellow ②

Tester negative probe → sky blue ①

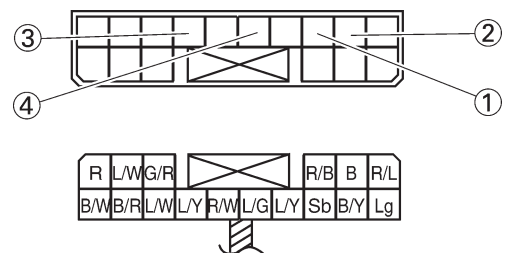
Tester positive probe → blue/yellow ③

Tester negative probe → sky blue ①

No continuity

Tester positive probe → blue/yellow ③

Tester negative probe → blue/green ④



NOTE: When you switch the tester's positive and negative probes, the readings in the above chart will be reversed.

- Are the testing readings correct?

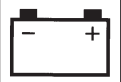
YES

NO

Replace the starting circuit cut-off relay.

ELECTRIC STARTING SYSTEM

ELEC



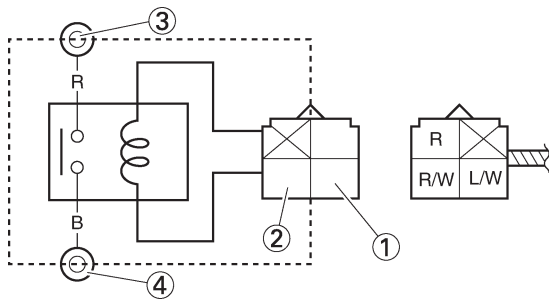
EAS00761

6. Starter relay

- Disconnect the starter relay from the coupler.
- Connect the pocket tester ($\Omega \times 1$) and battery (12 V) to the starter relay terminals as shown.

Battery positive terminal → red/white ①
Battery negative terminal → blue/white ②

Tester positive probe → red ③
Tester negative probe → black ④



- Does the starter relay have continuity between red and black?

↓ YES

↓ NO

Replace the starter relay.

EAS00749

7. Main switch

- Check the main switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the main switch OK?

↓ YES

↓ NO

Replace the main switch.

EAS00750

8. Engine stop switch

- Check the engine stop switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the engine stop switch OK?

↓ YES

↓ NO

Replace the right handlebar switch.

EAS00751

9. Neutral switch

- Check the neutral switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the neutral switch OK?

↓ YES

↓ NO

Replace the neutral switch.

EAS00752

10. Sidestand switch

- Check the sidestand switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the sidestand switch OK?

↓ YES

↓ NO

Replace the side-stand switch.

EAS00763

11. Clutch switch

- Check the clutch switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the clutch switch OK?

↓ YES

↓ NO

Replace the clutch switch.



EAS00764

12. Start switch

- Check the start switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the start switch OK?



YES



NO

Replace the right handlebar switch.

EAS00766

13. Wiring

- Check the entire starting system's wiring. Refer to "CIRCUIT DIAGRAM".
- Is the starting system's wiring properly connected and without defects?



YES

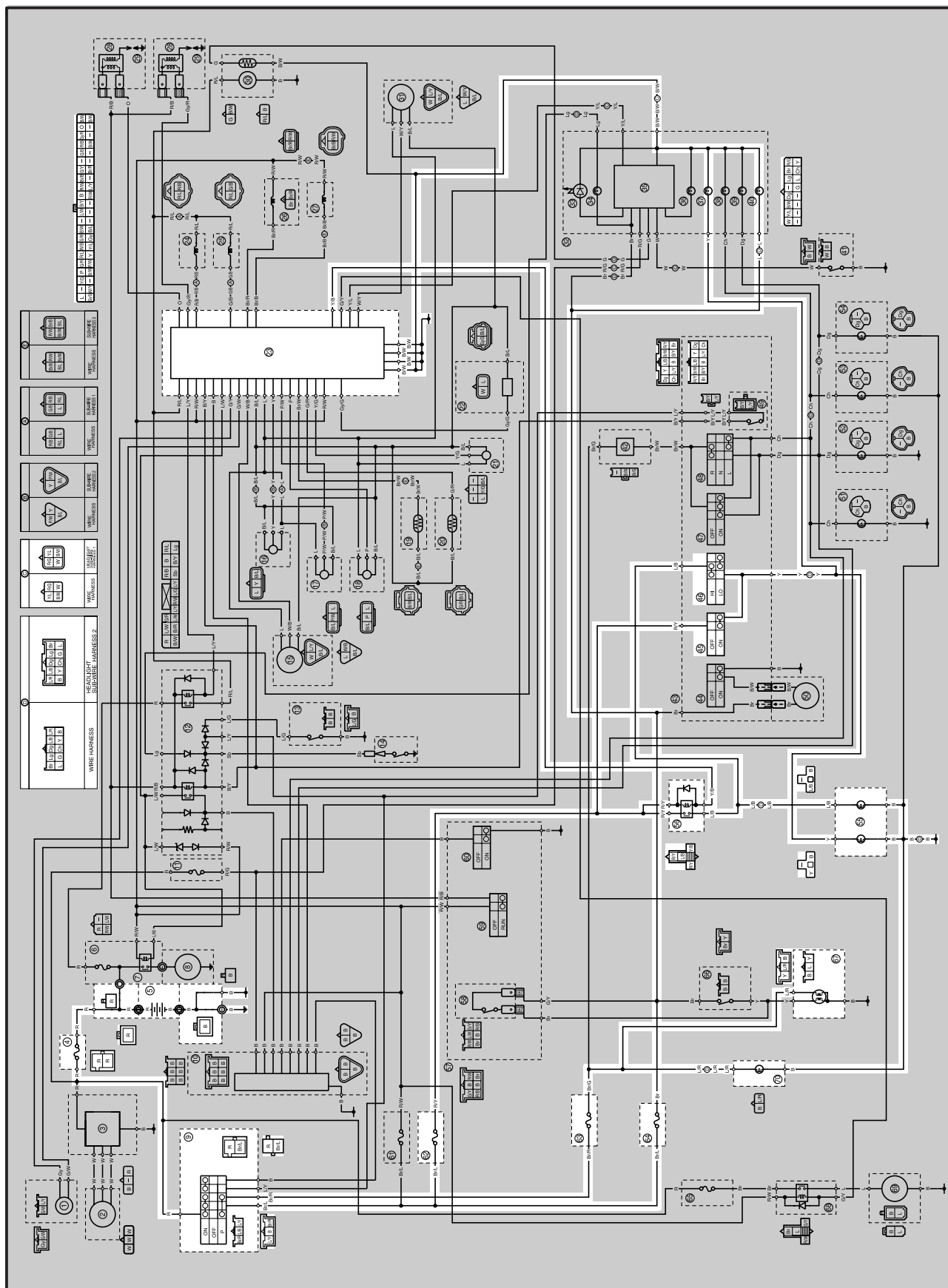


NO

The starting system circuit is OK.

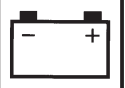
Properly connect or repair the starting system's wiring.

LIGHTING SYSTEM CIRCUIT DIAGRAM



LIGHTING SYSTEM

ELEC



- ④ Main fuse
- ⑤ Battery
- ⑨ Main switch
- ②③ ECU
- ③⑦ High beam indicator light
- ④⑩ Meter light
- ④⑤ Pass switch
- ④⑥ Dimmer switch
- ⑤⑤ Headlight
- ⑤⑥ Headlight relay
- ⑥② Headlight fuse
- ⑥③ Hazard light fuse
- ⑥④ Signaling system fuse
- ⑥⑦ Tail/brake light
- ⑦⑩ Auxiliary light

LIGHTING SYSTEM

ELEC



EAS00781

TROUBLESHOOTING

Any of the following fail to light: headlight, high beam indicator light, taillight, auxiliary light or meter light.

Check:

1. main, signaling system and headlight fuses
2. battery
3. main switch
4. headlight relay
5. dimmer switch
6. pass switch
7. wiring connections
(of the entire lighting system)

NOTE:

- Before troubleshooting, remove the following part(s):
 1. fuel tank
 2. front cowling
 3. rear cowling
- Troubleshoot with the following special tool(s).



Pocket tester
90890-03132

EAS00738

1. Main, signaling system and headlight fuses

- Check the main, signaling system and headlight fuses for continuity. Refer to "CHECKING THE FUSES" in chapter 3. (Manual No.: 5PS1-AE1)
- Are the main, parking lighting and headlight fuses OK?

↓ YES

↓ NO

Replace the fuse(s).

EAS00739

2. Battery

- Check the condition of the battery. Refer to "CHECKING AND CHARGING THE BATTERY" in chapter 3. (Manual No.: 5PS1-AE1)



Minimum open-circuit voltage
12.8 V or more at 20°C

- Is the battery OK?

↓ YES

↓ NO

- Clean the battery terminals.
- Recharge or replace the battery.

EAS00749

3. Main switch

- Check the main switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the main switch OK?

↓ YES

↓ NO

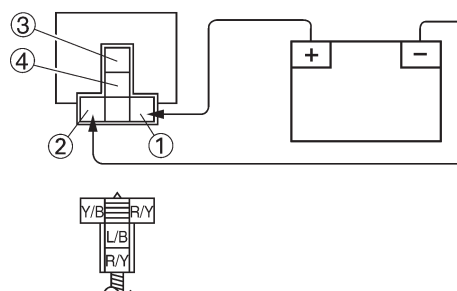
Replace the main switch.

4. Headlight relay

- Disconnect the headlight relay from the wire harness.
- Connect the pocket tester ($\Omega \times 1$) and battery (12 V) to the headlight relay terminal as shown.
- Check the headlight relay for continuity.

Battery positive terminal → red/yellow ①
Battery negative terminal → yellow/black ②

Tester positive probe → red/yellow ③
Tester negative probe → blue/black ④



LIGHTING SYSTEM

ELEC



- Does the headlight relay have continuity between red/yellow and green/blue?



YES



NO

Replace the headlight relay.

EAS00784

5. Dimmer switch

- Check the dimmer switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the dimmer switch OK?



YES



NO

The dimmer switch is faulty. Replace the left handlebar switch.

EAS00786

6. Pass switch

- Check the pass switch for continuity. Refer to "CHECKING THE SWITCHES".
- Is the pass switch OK?



YES



NO

The pass switch is faulty. Replace the left handlebar switch.

EAS00787

7. Wiring

- Check the entire lighting system's wiring. Refer to "CIRCUIT DIAGRAM".
- Is the lighting system's wiring properly connected and without defects?



YES



NO

Check the condition of each of the lighting system's circuits. Refer to "CHECKING THE LIGHTING SYSTEM".

Properly connect or repair the lighting system's wiring.

TROUBLESHOOTING

FAULTY LIGHTING SYSTEM

HEADLIGHT DOES NOT COME ON

- Wrong headlight bulb
- Too many electrical accessories
- Hard charging
- Incorrect connection
- Improperly grounded circuit
- Poor contacts (main or dimmer switch)
- Headlight relay
- Burnt-out headlight bulb

HEADLIGHT BULB BURNT OUT

- Wrong headlight bulb
- Faulty battery
- Faulty rectifier/regulator
- Improperly grounded circuit
- Faulty main switch
- Faulty dimmer switch
- Faulty headlight relay
- Headlight bulb life expired

WIRING DIAGRAM (EUR)

- ① Crankshaft position sensor
- ② A.C magneto
- ③ Rectifier/regulator
- ④ Main fuse
- ⑤ Battery
- ⑥ Fuel injection system fuse
- ⑦ Starter relay
- ⑧ Starter motor
- ⑨ Main switch
- ⑩ Alarm
- ⑪ Buck up fuse
- ⑫ Starting circuit cut-off relay
- ⑬ Sidestand switch
- ⑭ Neutral switch
- ⑮ Cylinder identification sensor
- ⑯ Throttle position sensor
- ⑰ Intake air pressure sensor
- ⑱ Atmospheric pressure sensor
- ⑲ Intake air temperature sensor
- ⑳ Coolant temperature sensor
- ㉑ Lean angle cut-off relay
- ㉒ O₂ sensor
- ㉓ ECU
- ㉔ Injector (#1)
- ㉕ Injector (#2)
- ㉖ AI system solenoid
- ㉗ Intake solenoid
- ㉘ Ignition coil
- ㉙ Spark plug
- ㉚ Fuel pump
- ㉛ Speed sensor
- ㉜ Meter assembly
- ㉝ Oil level warning light
- ㉞ Neutral indicator light
- ㉟ Multi-function meter
- ㊱ Engine trouble warning light
- ㊲ Hi beam indicator light
- ㊳ Left turn signal indicator light
- ㊴ Right turn signal indicator light
- ㊵ Meter light
- ㊶ Oil level switch
- ㊷ Turn signal relay
- ㊸ Left handlebar switch
- ㊹ Horn switch
- ㊺ Pass switch
- ㊻ Dimmer switch
- ㊼ Hazard switch
- ㊽ Turn signal switch
- ㊾ Clutch switch
- ㊿ Horn
- ① Rear turn signal light (left)
- ② Rear turn signal light (right)
- ③ Front turn signal light (left)
- ④ Front turn signal light (right)
- ⑤ Headlight
- ⑥ Headlight relay
- ⑦ Right handlebar switch
- ⑧ Front brake light switch
- ⑨ Engine stop switch
- ⑩ Start switch
- ⑪ Ignition fuse

- ⑫ Headlight fuse
- ⑬ Hazard fuse
- ⑭ Signaling system fuse
- ⑮ Radiator fan motor fuse
- ⑯ Rear brake light switch
- ⑰ Tail/brake light
- ⑱ Radiator fan relay
- ⑲ Radiator fan motor
- ⑳ Auxiliary 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/L | ..... | Black/Blue |
| B/W | .... | Black/White |
| B/Y | .... | Black/Yellow |
| Br/B | .... | Brown/Black |
| Br/G | ... | Brown/Green |
| Br/L | .... | Brown/Blue |
| Br/R | .... | Brown/Red |
| Br/W | ... | Brown/White |
| G/B | .... | Green/Black |
| G/R | .... | Green/Red |
| G/W | .... | Green/White |
| G/Y | .... | Green/Yellow |
| Gy/G | ... | Gray/Green |
| Gy/R | ... | Gray/Red |
| L/B | ..... | Blue/Black |
| L/G | .... | Blue/Green |
| L/R | .... | Blue/Red |
| L/W | .... | Blue/White |
| L/Y | ..... | Blue/Yellow |
| P/W | .... | Pink/White |
| R/B | .... | Red/Black |
| R/G | .... | Red/Green |
| R/L | .... | Red/Blue |
| R/W | .... | Red/White |
| R/Y | .... | Red/Yellow |
| W/B | .... | White/Black |
| W/Y | .... | White/Yellow |
| Y/B | .... | Yellow/Black |
| Y/G | .... | Yellow/Green |
| Y/L | ..... | Yellow/Blue |

WIRING DIAGRAM (OCE)

- ① Crankshaft position sensor
- ② A.C magneto
- ③ Rectifier/regulator
- ④ Main fuse
- ⑤ Battery
- ⑥ Fuel injection system fuse
- ⑦ Starter relay
- ⑧ Starter motor
- ⑨ Main switch
- ⑩ Buck up fuse
- ⑪ Starting circuit cut-off relay
- ⑫ Sidestand switch
- ⑬ Neutral switch
- ⑭ Cylinder identification sensor
- ⑮ Throttle position sensor
- ⑯ Intake air pressure sensor
- ⑰ Atmospheric pressure sensor
- ⑱ Intake air temperature sensor
- ⑲ Coolant temperature sensor
- ⑳ Lean angle cut-off switch
- ㉑ O₂ sensor
- ㉒ ECU
- ㉓ Injector (#1)
- ㉔ Injector (#2)
- ㉕ AI system solenoid
- ㉖ Intake solenoid
- ㉗ Ignition coil
- ㉘ Spark plug
- ㉙ Fuel pump
- ㉚ Speed sensor
- ㉛ Meter assembly
- ㉜ Oil level warning light
- ㉝ Neutral indicator light
- ㉞ Multi function meter
- ㉟ Engine trouble warning light
- ㊱ Hi beam indicator light
- ㊲ Left turn signal indicator light
- ㊳ Right turn signal indicator light
- ㊴ Meter light
- ㊵ Oil level switch
- ㊶ Turn signal relay
- ㊷ Left handlebar switch
- ㊸ Horn switch
- ㊹ Pass switch
- ㊺ Dimmer switch
- ㊻ Turn signal switch
- ㊼ Clutch switch
- ㊽ Horn
- ㊾ Rear turn signal light (left)
- ㊿ Rear turn signal light (right)
- 1 Front turn signal light (left)
- 2 Front turn signal light (right)
- 3 Headlight
- 4 Headlight relay
- 5 Right handlebar switch
- 6 Front brake light switch
- 7 Engine stop switch
- 8 Start switch
- 9 Ignition fuse
- 0 Headlight fuse
- 1 Signaling system fuse

- 2 Radiator fan motor fuse
- 3 Radiator fan relay
- 4 Radiator fan motor
- 5 Auxiliary light
- 6 Rear brake light switch
- 7 Tail/brake light

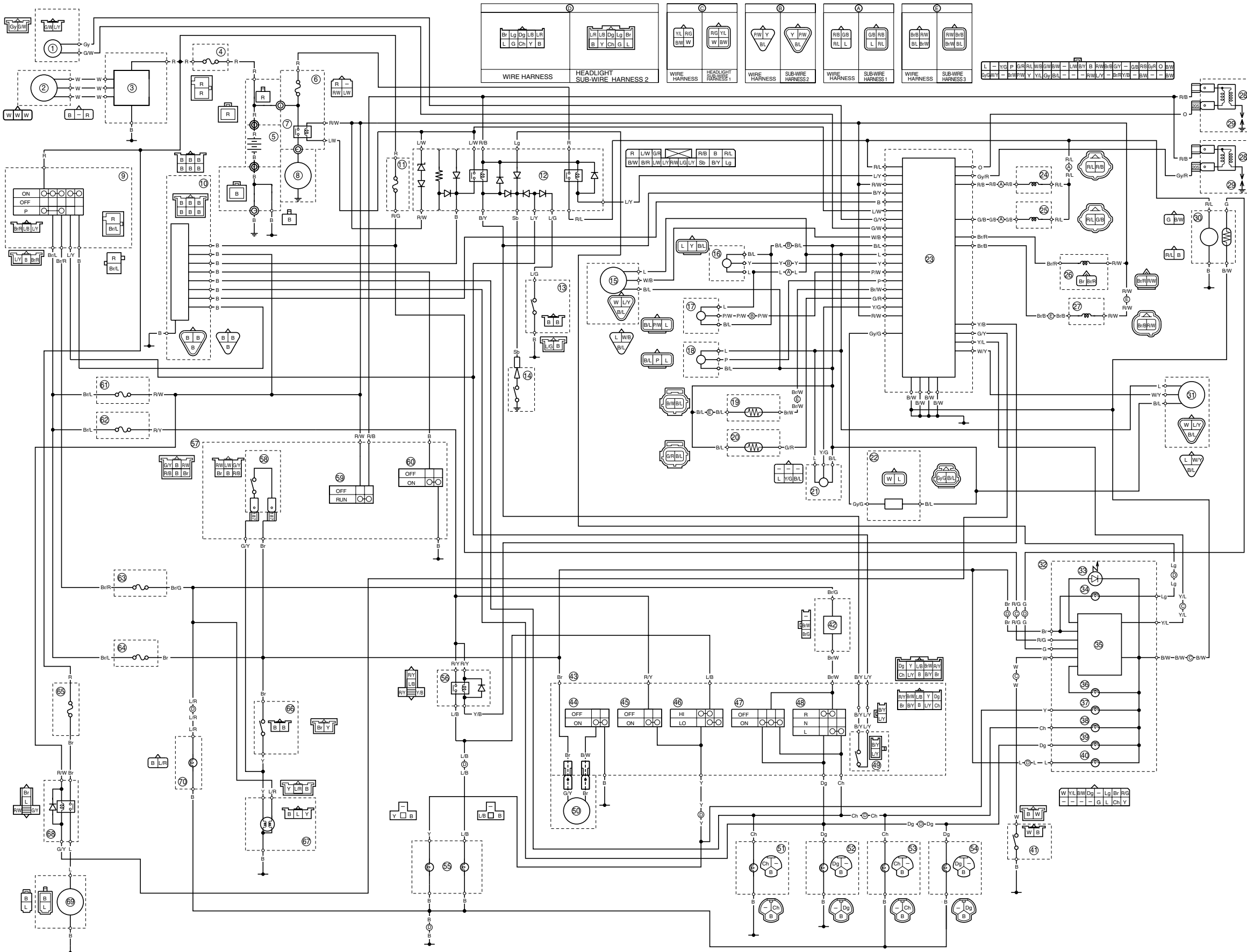
COLOR CODE

| | | |
|------|-------|--------------|
| 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/L | ..... | Black/Blue |
| B/W | .... | Black/White |
| B/Y | .... | Black/Yellow |
| Br/B | .... | Brown/Black |
| Br/L | .... | Brown/Blue |
| Br/R | .... | Brown/Red |
| Br/W | ... | Brown/White |
| G/B | .... | Green/Black |
| G/R | .... | Green/Red |
| G/W | .... | Green/White |
| G/Y | .... | Green/Yellow |
| Gy/G | ... | Gray/Green |
| Gy/R | ... | Gray/Red |
| L/B | ..... | Blue/Black |
| L/G | .... | Blue/Green |
| L/R | .... | Blue/Red |
| L/W | .... | Blue/White |
| L/Y | ..... | Blue/Yellow |
| P/W | .... | Pink/White |
| R/B | .... | Red/Black |
| R/G | .... | Red/Green |
| R/L | .... | Red/Blue |
| R/W | .... | Red/White |
| R/Y | .... | Red/Yellow |
| W/Y | .... | White/Yellow |
| Y/B | .... | Yellow/Black |
| Y/G | .... | Yellow/Green |
| Y/L | ..... | Yellow/Blue |



YAMAHA MOTOR CO., LTD.
2500 SHINGAI IWATA SHIZUOKA JAPAN

TDM900 (R) 2003 WIRING DIAGRAM (EUR)



TDM900 (R) 2003 WIRING DIAGRAM (OCE)

