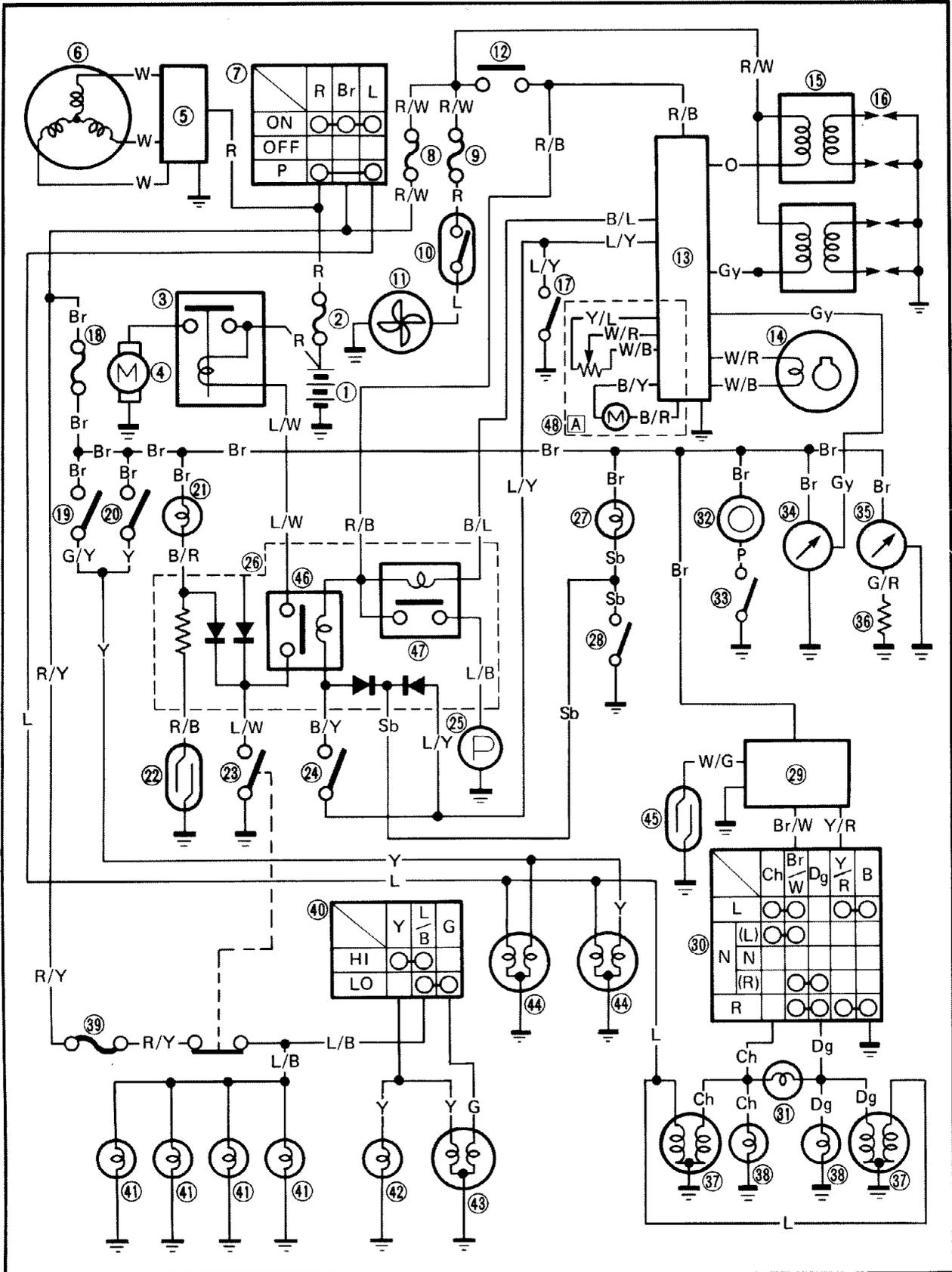


FUEL PUMP SYSTEM

CIRCUIT DIAGRAM



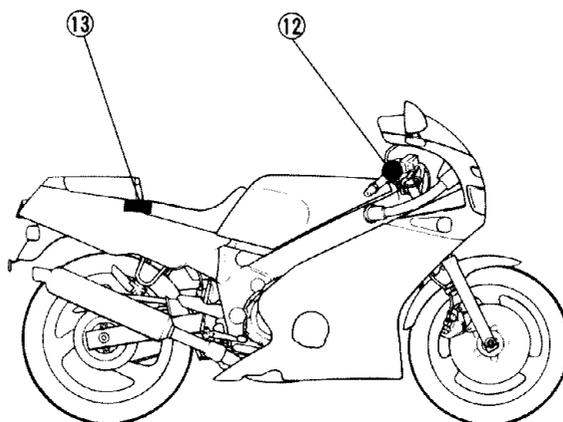
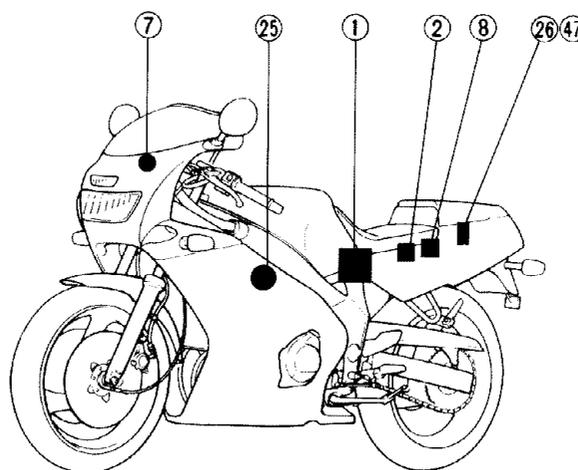


Aforementioned circuit shows fuel pump system circuit in circuit diagram.

NOTE:

For the color codes, see page 41.

- ① Battery
- ② Fuse (main)
- ⑦ Main switch
- ⑧ Fuse (ignition)
- ⑫ "ENGINE STOP" switch
- ⑬ Ignitor unit
- ⑳ Fuel pump
- ㉔ Relay assembly
- ㉕ Fuel pump relay





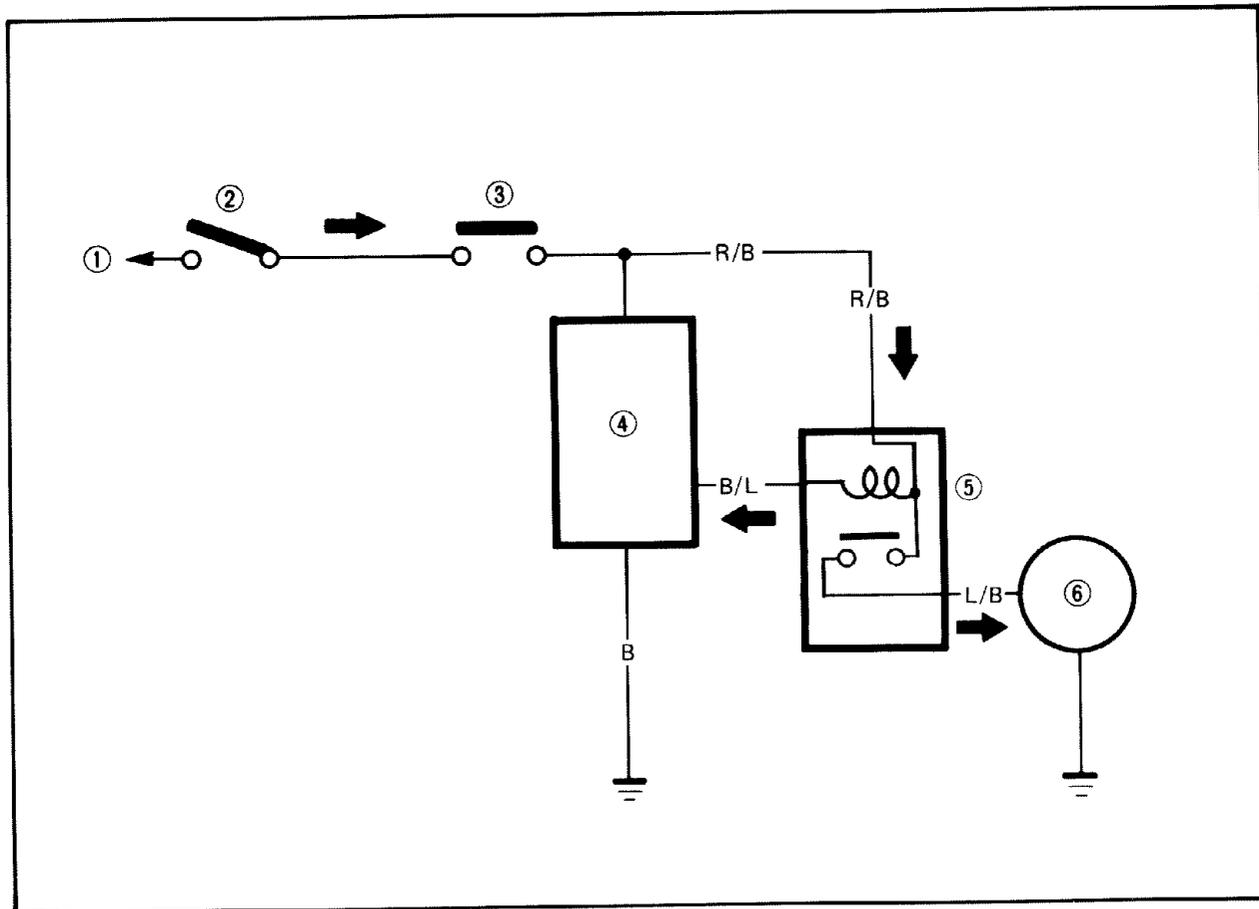
FUEL PUMP CIRCUIT OPERATION

The fuel pump circuit consists of the fuel pump relay, fuel pump, "ENGINE STOP" switch and digital ignition unit.

The digital ignition unit includes the control unit for the fuel pump.

The fuel pump starts and stops as indicated in the chart below.

- ① To main fuse and battery
- ② Main switch
- ③ "ENGINE STOP" switch
- ④ Digital ignitor unit
- ⑤ Fuel pump relay
- ⑥ Fuel pump



FUEL PUMP		
START		STOP
<ul style="list-style-type: none"> • Main/Engine stop switch turned to "ON" 	<ul style="list-style-type: none"> • Engine turned on 	<ul style="list-style-type: none"> • Engine turned off
For about 5 seconds when carburetor fuel level is low	After about 0.1 second	After about 5 seconds



TROUBLESHOOTING

FUEL PUMP FAILS TO OPERATE.

Procedure

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Fuse (main) 2. Battery 3. Main switch 4. "ENGINE STOP" switch | <ol style="list-style-type: none"> 5. Fuel pump relay (relay assembly) 6. Fuel pump 7. Wiring connection
(Entire fuel system) |
|---|--|

NOTE:

- Remove the following before troubleshooting.
 - 1) Seat (front and rear)
 - 2) Top cover
 - 3) Fuel tank
- Use the following special tool in this troubleshooting.



Pocket tester:
YU-03112
90890-03112

1. Fuse (main)

- Remove the fuse (main) and (ignition).
- Connect the pocket tester ($\Omega \times 1$) to the fuse (main).
- Check the fuse for continuity.

NO CONTINUITY

Fuse is faulty, replace it.



CONTINUITY

2. Battery

- Check the battery condition. Refer to the "BATTERY INSPECTION" section in the CHAPTER 3.

Specific gravity:
1.280 at 20°C (68°F)

INCORRECT

- Refill battery fluid.
- Clean battery terminals.
- Recharge or replace battery.



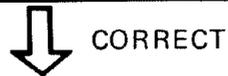
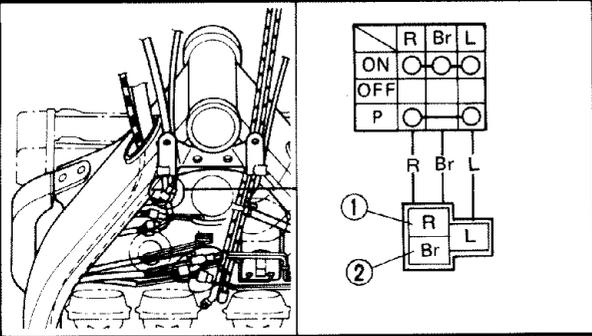
CORRECT

*



3. Main switch

- Disconnect the main switch coupler and lead from the wire harness.
- Check the switch component for the continuity between "Red ① and Brown ②". Refer to the "CHECKING OF SWITCHES" section.



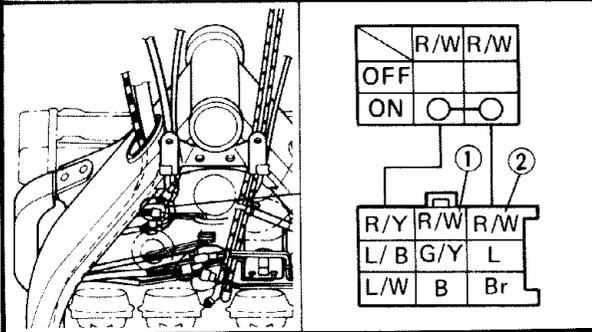
INCORRECT



Replace main switch.

4. "ENGINE STOP" switch

- Disconnect the "ENGINE STOP" switch coupler from the wire harness.
- Check the switch component for the continuity between "Red/White ① and Red/White ②". Refer to the "CHECKING OF SWITCHES" section.



INCORRECT



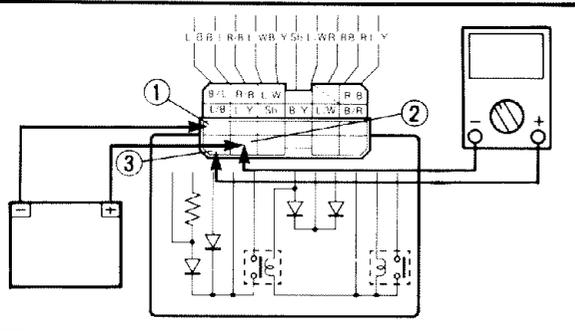
Replace handlebar switch (right).



5. Fuel pump relay (relay assembly)

- Disconnect the fuel pump relay coupler from the wire harness.
- Connect the pocket tester ($\Omega \times 1$) and battery (12V) voltage to the fuel pump relay coupler terminals.

Tester (+) lead → Blue/Black ① terminal
 Tester (-) lead → Red/Black ② terminal
 Battery (+) lead → Red/Black ② terminal
 Battery (-) lead → Black/Blue ③ terminal



- Check the relay for continuity.

NO CONTINUITY

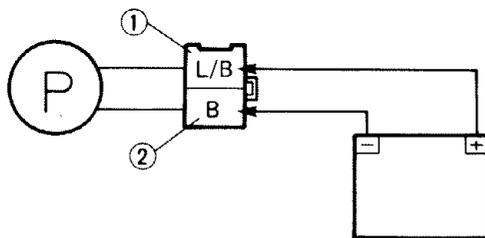
Replace relay assembly.

CONTINUITY

6. Fuel pump

- Disconnect the fuel pump coupler from the wire harness.
- Connect the battery voltage as shown.

Battery (+) lead → Blue/Black ① terminal
 Battery (-) lead → Black ② terminal



- Check the fuel pump operation.

NO OPERATIVE

Replace fuel pump.

OPERATIVE

*



7. Wiring connection

Check the entire fuel system for connections.
Refer to the "WIRING DIAGRAM" section.

POOR CONNECTION



Correct.



CORRECT

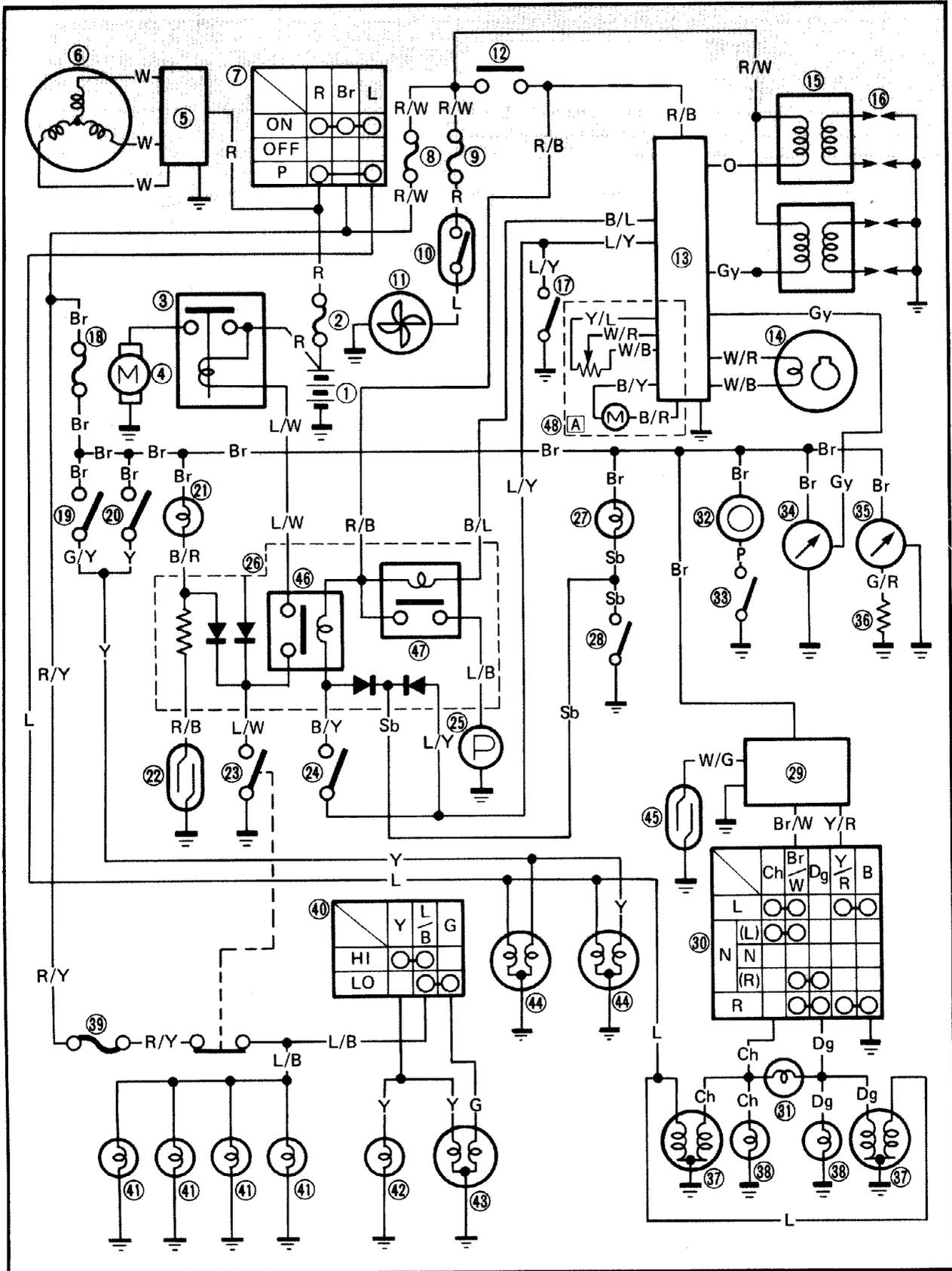
Replace digital ignitor unit.

— MEMO —

A series of horizontal dotted lines for writing a memo.

EXUP SYSTEM (FOR CALIFORNIA ONLY)

CIRCUIT DIAGRAM



EXUP SYSTEM (FOR CALIFORNIA ONLY)

ELEC

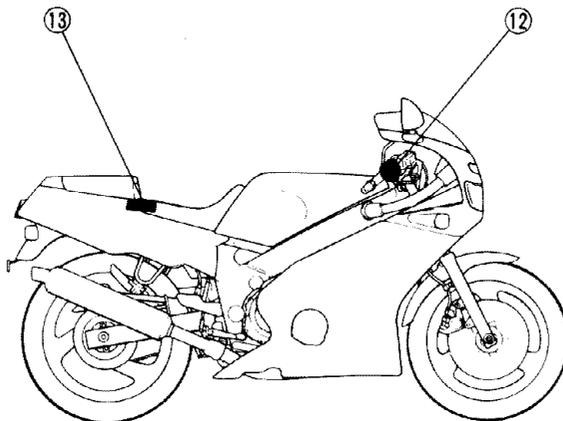
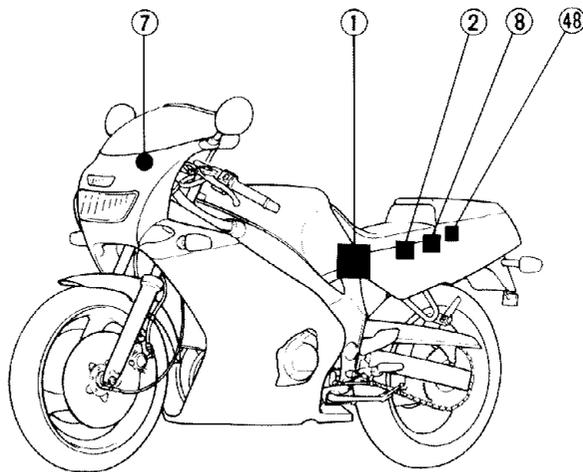


Aformentioned circuit diagram shows EXUP circuit in circuit diagram.

NOTE:

For the color codes, see page 41.

- ① Battery
- ② Fuse (main)
- ⑦ Main switch
- ⑧ Fuse (ignition)
- ⑫ "ENGINE STOP" switch
- ⑬ Ignitor unit
- ④⑧ "EXUP" servo motor
- A For California only



TROUBLESHOOTING

EXUP SERVOMOTOR DOES NOT OPERATE.

Procedure (1)

Check;

1. EXUP servo motor operation (with EXUP servo motor coupler connected)
2. Voltage
3. EXUP servo motor operation (with EXUP servo motor coupler disconnected)
4. EXUP servo motor resistance (potentiometer resistance)
5. Wiring connection (entire EXUP system)

Procedure (2)

Check;

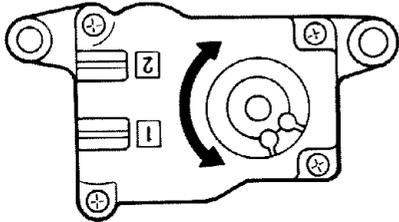
1. Fuse "MAIN/IGNITION"
2. Battery
3. Main switch
4. "ENGINE STOP" switch
5. Wiring connection (entire EXUP system)

NOTE:

- Remove the following parts before troubleshooting.
 - 1) Seat (front and rear)
 - 2) Side cover (left)
 - 3) Side cowling (left)
- Use the following special tool in this troubleshooting.

	Pocket tester: YU-03112 90890-03112
--	---

Procedure (1)

1. EXUP servo motor operation (with EXUP servo motor coupler connected)
<ul style="list-style-type: none"> • Disconnect the EXUP cables at EXUP servo motor pulley side. • Start the engine and rev it up to 2,000 r/min.


PULLY TURNS

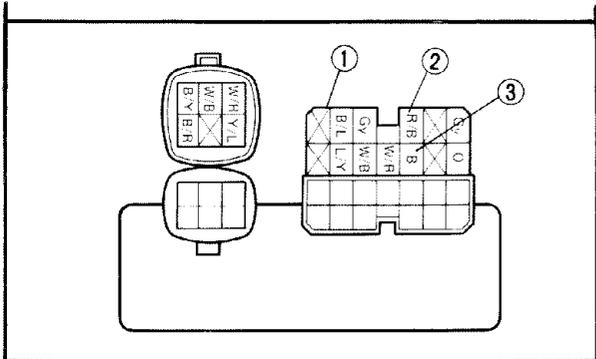


Check the EXUP cables connection. If connection is correct. Inspect the EXUP valve and cables. Refer to "ENGINE OVERHAUL" section in the CHAPTER 4.

PULLY DOES NOT TURN

2. Voltage
<ul style="list-style-type: none"> • Connect the pocket tester (DC20V) to the ignitor unit ① connector.
Tester (+) lead → Red/Black ② terminal Tester (-) lead → Black ③ terminal

EXUP SYSTEM (FOR CALIFORNIA ONLY)



- Turn the main switch to "ON" and check for the voltage between "Red/Black and Black".



Voltage (Red/Black – Black):
10 ~ 14V

↓ MEETS SPECIFICATION

OUT OF SPECIFICATION
↓

Go to the "Procedure (2)".

3. EXUP servo motor operation (with EXUP servo motor coupler disconnected)

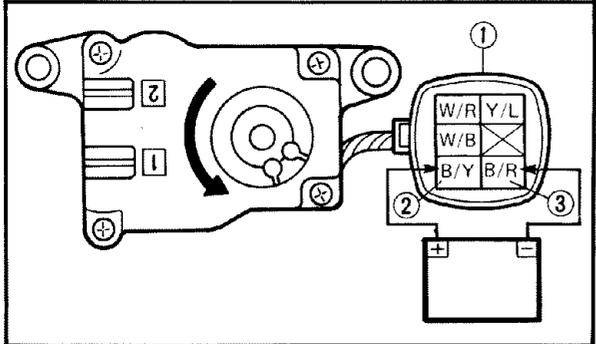
- Disconnect the EXUP cables at EXUP servo motor pulley side.
- Disconnect the EXUP servo motor coupler ① from the wireharness.
- Connect the battery leads to the EXUP servo motor coupler.

Battery positive lead → Black/Yellow ② lead
Battery negative lead → Black/Red ③ lead

- Check for pulley operation by allowing it to rotate several times.

CAUTION:

This test should be performed within a few seconds to prevent further damage.



↓ PULLY TURNS
*

PULLY DOES NOT TURN
↓

Replace EXUP servo motor.



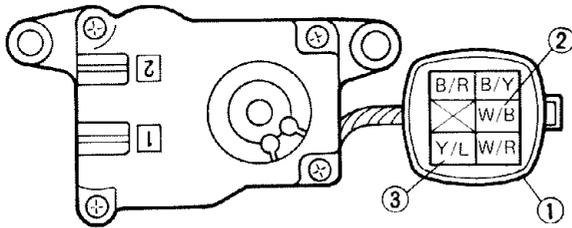
4. EXUP servo motor resistance (potentiometer resistance)

- Disconnect the EXUP servo motor coupler ① from the wireharness.

Steps 1:

- Connect the pocket tester ($\Omega \times 1K$) to the EXUP servo motor couplers.

Tester (+) lead → White/Black ② lead
 Tester (-) lead → Yellow/Blue ③ lead



- Measure the EXUP servo motor resistance.

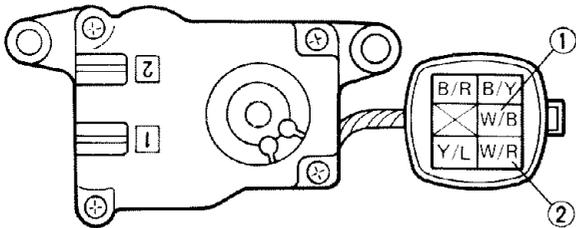


EXUP servo motor resistance:
 6.7 ~ 10 k Ω
 (White/Black – Yellow/Blue)

Steps 2:

- Connect the pocket tester ($\Omega \times 1K$) to the EXUP servo motor coupler.

Tester (+) lead → White/Black ① lead
 Tester (-) lead → White/Red ② lead



- Measure the EXUP servo motor resistance while turning the pulley slowly.

OUT OF SPECIFICATION

EXUP servo motor is faulty, replace it.



EXUP servo motor resistance:
0 ~ about 10 k Ω
(White/Black – White/Red)
When pulley is turned one turn.

↓ BOTH MEET SPECIFICATIONS

5. Wiring connection

Check the entire EXUP system for connections. Refer to the "WIRING DIAGRAM" section.

↓ CORRECT

Ignitor unit is faulty, replace it.

POOR CONNECTION

Correct.

Procedure (2)

1. Fuse "MAIN/IGNITION"

- Remove the fuse "MAIN" and "IGNITION".
- Connect the pocket tester ($\Omega \times 1$) to the fuse "MAIN" and "IGNITION".
- Check the fuse for continuity.

CONTINUITY

2. Battery

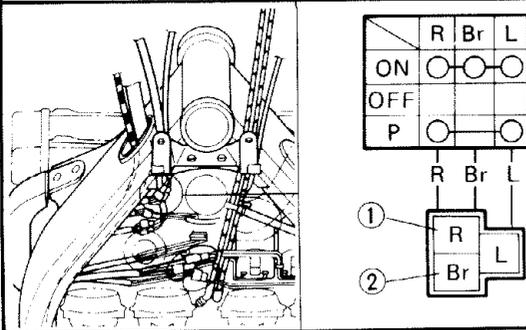
- Check the battery condition.
- Refer to the "BATTERY INSPECTION" section in the CHAPTER 3.

Specific gravity:
1.280 at 20° C (68° F)

CORRECT

3. Main switch

- Disconnect the main switch coupler from the wireharness.
- Check the switch component for the continuity between "Red ① and Brown ②". Refer to the "CHECKING OF SWITCHES" section.



CORRECT

4. "ENGINE STOP" switch

- Disconnect the "ENGINE STOP" switch coupler from the wireharness.
- Check the switch component for the continuity between "Red/White ① and Red/White ②". Refer to the "CHECKING OF SWITCHES" section.

NO CONTINUITY

Replace fuse "MAIN" and/or "IGNITION".

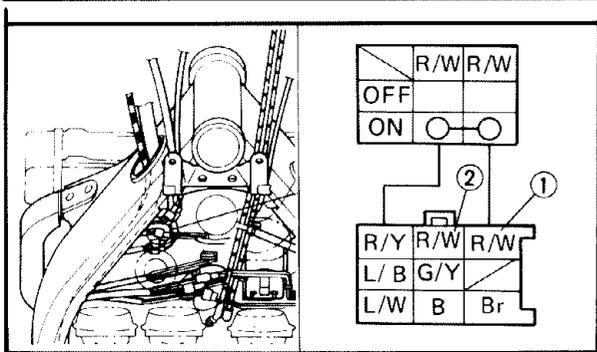
INCORRECT

- Refill battery fluid.
- Clean battery terminals.
- Recharge or replace battery.

INCORRECT

Replace main switch.

EXUP SYSTEM (FOR CALIFORNIA ONLY)



INCORRECT

Replace handlebar switch (right).

CORRECT

5. Wiring connection

Check the entire EXUP system for connections. Refer to the "WIRING DIAGRAM" section.

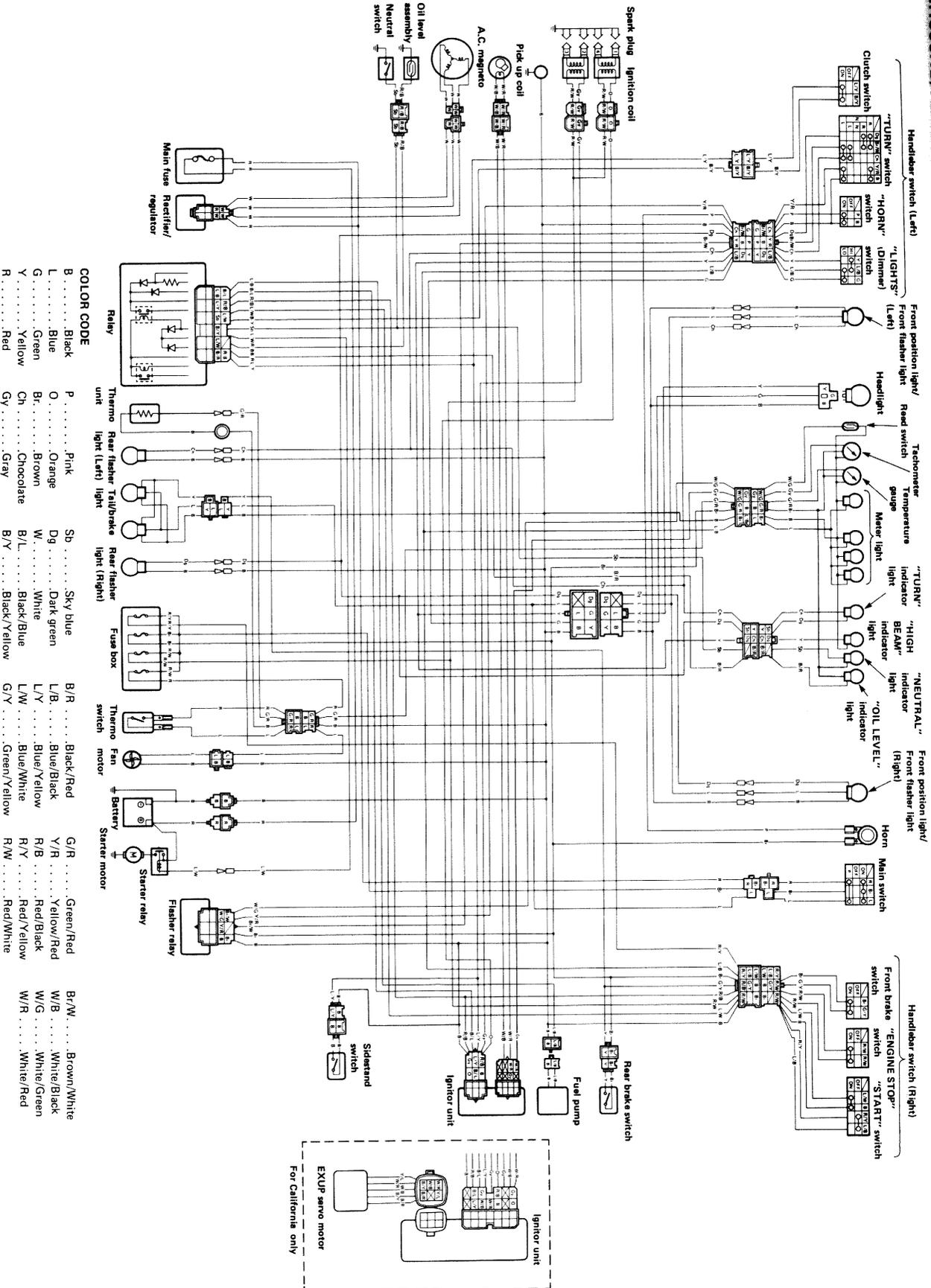
POOR CONNECTION

Correct.

CORRECT

Go to "Procedure (1)".

FZR600RB/FZR600RBC WIRING DIAGRAM



COLOR CODE

B	Black
L	Blue
G	Green
Y	Yellow
R	Red

P	Pink
O	Orange
Br	Brown
Ch	Chocolate
Gr	Gray

Sb	Sky blue
Dg	Dark green
W	White
B/L	Black/Blue
B/Y	Black/Yellow

B/R	Black/Red
L/B	Blue/Black
L/Y	Blue/Yellow
L/W	Blue/White
G/Y	Green/Yellow

G/R	Green/Red
Y/R	Yellow/Red
R/B	Red/Black
R/Y	Red/Yellow
R/W	Red/White

Br/W	Brown/White
W/B	White/Black
W/G	White/Green
W/R	White/Red