

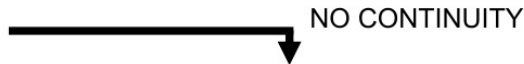
IF THE IGNITION SYSTEM FAILS TO OPERATE

Procedure

Check:

- | | |
|------------------------------|---------------------------|
| 1. Fuse (Main) | 7. Pickup coil resistance |
| 2. Battery | 8. Main switch |
| 3. Spark plug | 9. Engine stop switch |
| 4. Ignition spark gap | 10. Wiring connection |
| 5. Spark plug cap resistance | (entire ignition system) |
| 6. Ignition coil | |

1. Fuse



NO CONTINUITY

Check switches

Replace the fuse.



2. Battery



INCORRECT

- Check the battery condition.

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

Refer to "BATTERY INSPECTION"



Standard spark plug: DR8EA / NGK

3. Spark plug



OUT OF SPECIFICATION

- Check the spark plug condition.
- Check the spark plug type.
- Check the spark plug gap.

Repair or replace the spark plug

 Spark plug gap: 0.6 ~ 0.7mm



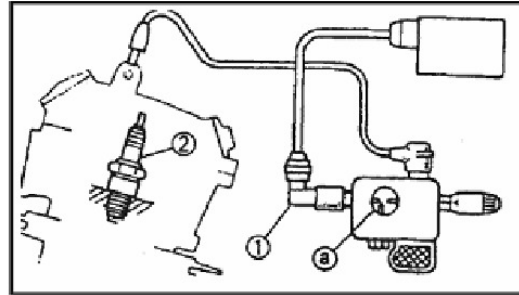
*

*



4. Ignition spark gap

- Disconnect the spark plug cap from the spark plug
- Connect the ignition tester 1 as shown.
- 2 Spark plug
- Turn the main switch to "ON".
- Check the ignition spark gap .
- Check the spark by pushing the starter switch, and increase the spark gap until a misfire occurs.



MEETS SPECIFICATION



The ignition system is not faulty.



**Minimum spark gap:
6mm (0.24 in)**

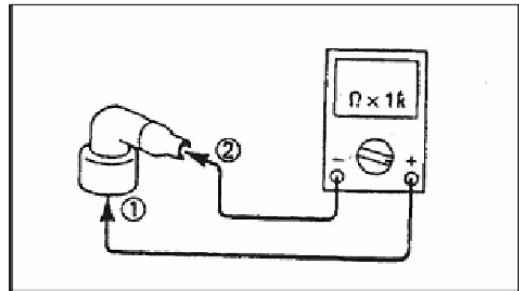


OUT OF SPECIFICATION
OR
NO SPARK

5. Spark plug cap resistance

- Remove the spark plug cap.
- Connect the pocket tester ($\Omega \times 1 \text{ k}$) to the spark plug cap.
- NOTE:
 - When removing the spark plug cap, do not pull the spark plug cap from high tension cord.
 - Remove → Turning counterclockwise
 - Connect → Turning clockwise.
 - Check the high tension cord when connecting the spark plug cap.
 - When connecting the spark plug cap, cut the high tension cord about 5mm.

Tester (+) lead →
Spark plug side ①
Tester (−) lead →
High tension cord side ②



OUT OF SPECIFICATION



Replace the spark plug cap



**Spark plug cap
resistance:
5K Ω (20 °C)**



CORRECT

*

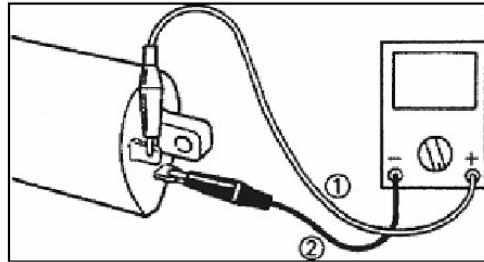


6. Ignition coil resistance

Disconnect the ignition coil connector from the wire harness.

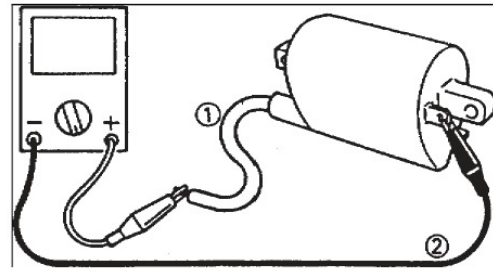
- Connect the pocket tester (1) to the ignition coil.
- Check if the primary coil has the specified resistance.

Tester (+) lead
Pink Terminal
Tester () lead B/Y
Terminal



Primary coil resistance:
3.6-4.8Ω(20 °C)

Tester (+) lead
Spark plug lead
Tester (—) lead
Pink Terminal



- Connect the pocket tester (Ω×1k) to the ignition coil.
- Check the secondary has the specified resistance



Secondary coil resistance:
10.7-14.5 KΩ (20°C)



BOTH MEET
SPECIFICATION

OUT OF SPECIFICATION

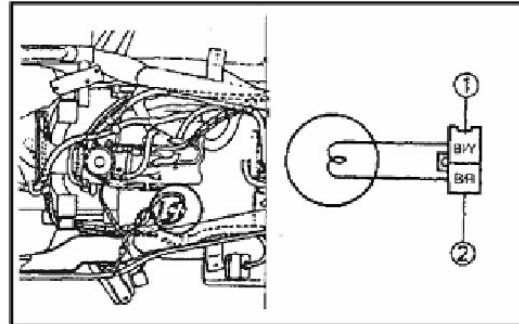
Replace the ignition coil.

*



7. Pickup coil resistance

- Disconnect the pickup coil coupler from the wire harness.
- Connect the pocket tester (Ω 100) to the pickup coil coupler.



Tester (+) lead →

B/Y Terminal ①

Tester (-) lead →

B/R Terminal ②

- Check the pickup coil has the specified resistance.



Primary coil resistance:
168 -252 Ω (20°C)



MEETS SPECIFICATION

8. Main switch

CHECK SWITCHES



CONTINUITY

9. Engine stop switch (for USA model)



CONTINUITY

10. Wiring connection

- Check the connection of the entire ignition system Refer to "CIRCUIT DIAGRAM".



CORRECT

Replace the igniter unit.

OUT OF SPECIFICATION



Replace the pickup coil.

NO CONTINUITY



Replace the main switch

NO CONTINUITY



Replace the handlebar switch.

POOR CONNECTIONS



Correct