

MEASURING THE IGNITION SYSTEM PEAK VOLTAGE

⚠ WARNING

When checking the peak voltage do not touch any of the connections of the digital tester lead wires.

NOTE:

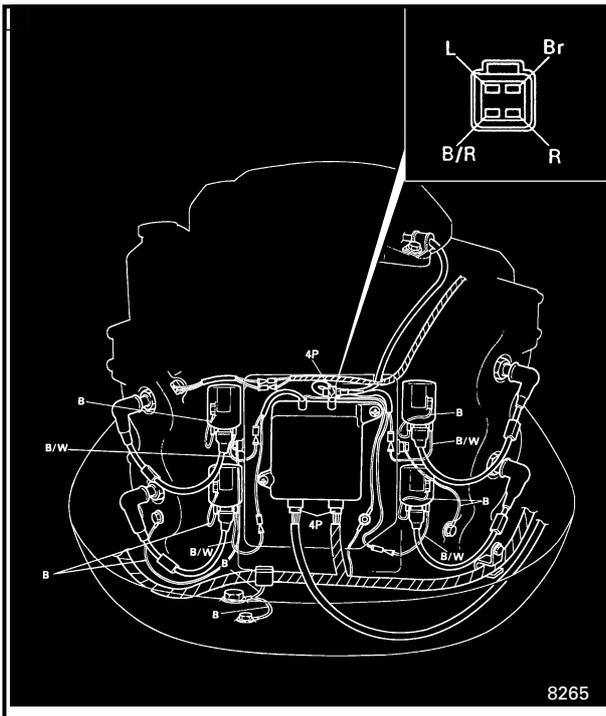
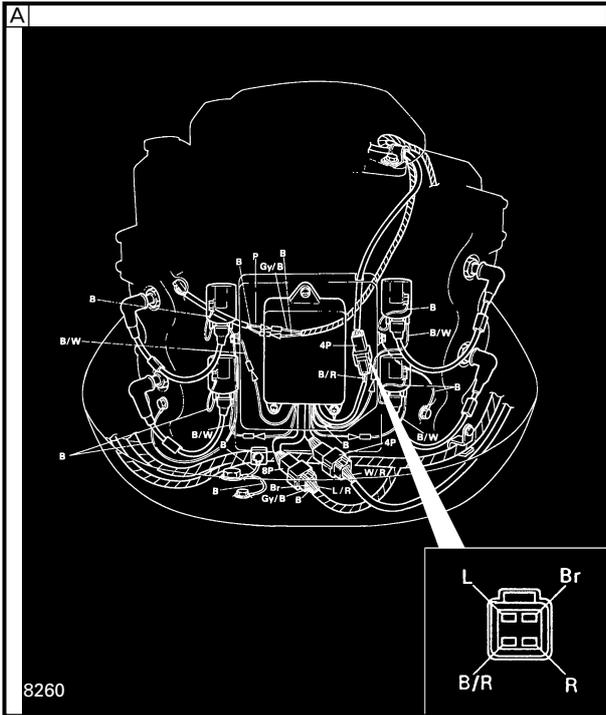
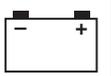
- If there is no spark or the spark is weak, continue with the ignition system test.
- If a good spark is obtained, the problem is not with the ignition system, but possibly with the spark plug(s) or another component.

1. Measure:

- CDI unit output peak voltage
Above specification → Replace the ignition coil.
Below specification → Measure the charge coil output peak voltage.

CDI unit output peak voltage (oil injection except for 115BETO models) Black/white (B/W) – Black (B)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	—	125	140	145

CDI unit output peak voltage (pre-mixed and 115BETO models) Black/white (B/W) – Black (B)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	—	85	140	135



2. Measure:

- Charge coil output peak voltage
Above specification → Measure the pulser coil output peak voltage.
Below specification → Replace the charge coil.

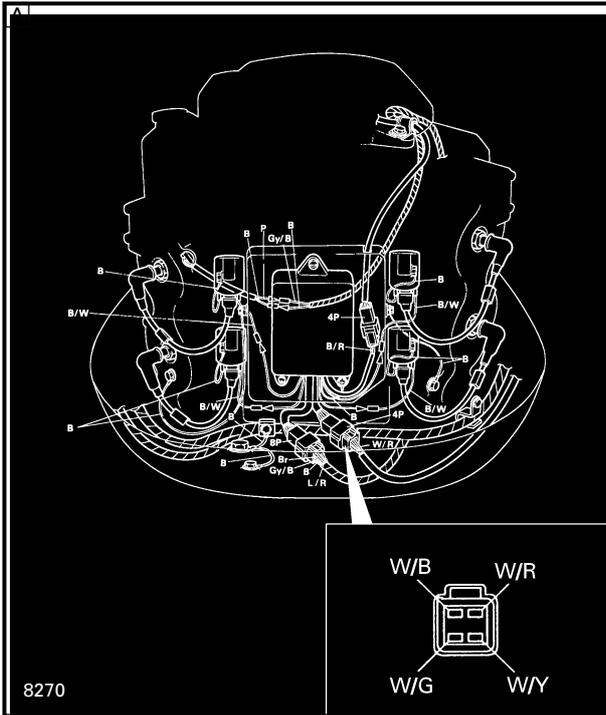
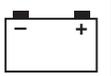
Charge coil output peak voltage (oil injection except for 115BETO models) Red (R) – Brown (Br)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	170	160	165	170
Black/red (B/R) – Blue (L)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	45	45	165	170

	Test harness (4-pin) YB-38831 / 90890-06771
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Charge coil output peak voltage (pre-mixed and 115BETO models) Red (R) – Brown (Br)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	95	105	160	160
Black/red (B/R) – Blue (L)				
r/min	Circuit	Loaded		
	Cranking	1,500	3,500	
V	30	30	160	160

	Test harness (4-pin) YB-38831 / 90890-06771
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- A** Oil injection except for 115BETO models
- B** Pre-mixed and 115BETO models

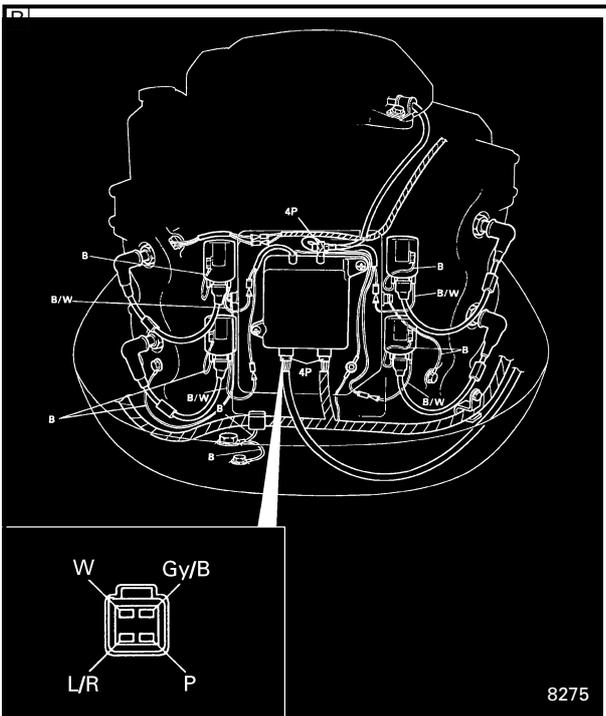


3. Measure:

- Pulser coil output peak voltage
Above specification → Replace the CDI unit.
Below specification → Replace the pulser coil.

Pulser coil output peak voltage (oil injection except for 115BETO models) White/red (W/R) – White/yellow (W/Y) White/black (W/B) – White/green (W/G)				
r/min	Circuit		Loaded	
	Cranking		1,500	3,500
V	2.5	2.5	7.0	12

Test harness (4-pin)
 YB-38831 / 90890-06771



Pulser coil output peak voltage (pre-mixed and 115BETO models) White/red (W/R) – White/yellow (W/Y) White/black (W/B) – White/green (W/G)				
r/min	Circuit		Loaded	
	Cranking		1,500	3,500
V	3.0	2.5	8.0	12

Test harness (4-pin)
 YB-38831 / 90890-06771

- Ⓐ Oil injection except for 115BETO models
- Ⓑ Pre-mixed and 115BETO models