17. IGNITION SYSTEM

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- Check the ignition system according to the sequence specified in the Troubleshooting. (⇒1-28)
- The ignition system adopts CDI unit and the ignition timing cannot be adjusted.
- If the timing is incorrect, inspect the CDI unit and A.C. generator and replace any faulty parts. Inspect the CDI unit with a CDI tester
- · Loose connector and poor wire connection are the main causes of faulty ignition system. Check each connector before operation.
- Use of spark plug with improper heat range is the main cause of poor engine performance.
- The inspections in this section are focused on maximum voltage. The inspection of ignition coil resistance is also described in this section.
- Inspect the ignition switch according to the continuity table specified in page 20-3.
- Inspect the spark plug referring to Section 3.
- Remove the A.C. generator and pulser coil referring to Section 10.

SPECIFICATIONS

Item			Standard	
Spark plug	SH10BA		BR8HSA	
	SH10AA		BR6HSA	
Spark plug gap			0.8_	1.0mm
Ignition timing	p lanca con			2° BTC/200 0rpm
Ignition coil resistance (20°C)	Primary coil		0.153_	0.187Ω
	Secondary	without plug cap	3.24_	3.96ΚΩ
		with plug cap	6.99_	10.21KΩ
Pulser coil resistance (20°C)			50_	170Ω
Exciter coil resistance (20°C)			50_	350Ω
Ignition coil primary side max. voltage			244V	
Pulser coil max. voltage			10.5V	
Exciter coil max. voltage			244V	

TESTING INSTRUMENT

Electric tester

TROUBLESHOOTING

No spark at plug

- · Faulty spark plug
- · Poorly connected, broken or shorted wire
- · Faulty ignition switch
- · Faulty ignition coil
- · Faulty CDI unit
- · Faulty A.C. generator

Engine starts but turns poorly

- · Ignition primary circuit
- -Faulty ignition coil
- Poorly connected wire or connector
- -Poorly contacted ignition switch
- · Ignition secondary circuit
 - -Faulty ignition coil
 - -Faulty spark plug
 - Faulty high-tension wire
 - Poorly insulated plug cap
- Improper ignition timing
- -Faulty A.C. generator
 -Stator not installed properly
- -Faulty CDI unit