

Component Procedures: Ignition System

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Component Procedures: Ignition System

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Diagnose/Test	Ignition System, Diagnosis	B	0.6	0.0

Electrical (OE) (itype_21)

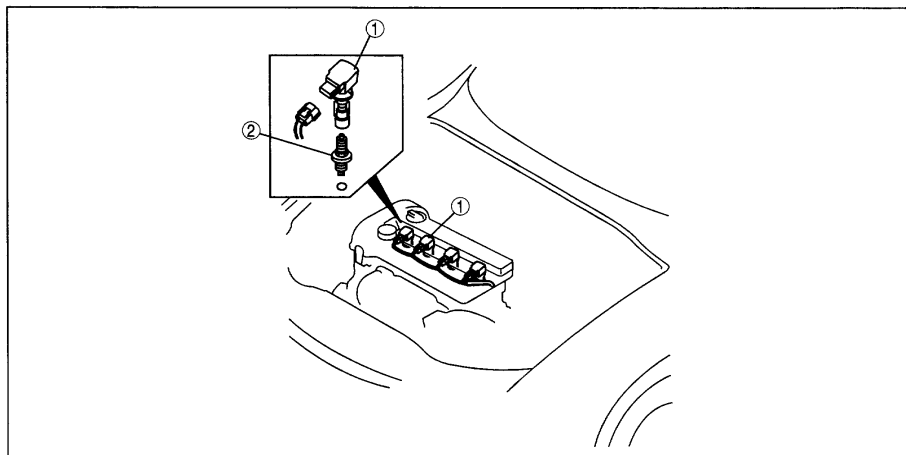
For information regarding diagrams for this system, please refer to Powertrain Management diagrams.

See: Powertrain Management > Electrical > Wiring Diagram Index

Components (itype_32)

IGNITION SYSTEM LOCATION INDEX[LF, L3]

id0118a5800100



CPJ118ZWB002

1	Ignition coil
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2	Spark plug
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Spark Test (Article 1389325)

STEP	INSPECTION		ACTION
1	<ul style="list-style-type: none"> Disconnect the ignition coil from the spark plugs. Remove the spark plugs. Verify that the spark plugs do not have carbon deposits. Are the spark plugs normal? 	Yes	Go to the next step.
		No	Perform no-load racing at 4,000 rpm for 2 min, 2 times to burn off the carbon deposits. Repeat Step 1.
2	<ul style="list-style-type: none"> Inspect the spark plugs for damage, wear, and proper plug gap. Are the spark plugs normal? 	Yes	Go to the next step.
		No	Replace spark plugs, then go to the next step.
3	<ul style="list-style-type: none"> Reconnect the spark plugs to the ignition coil. Ground the spark plugs to the engine. Is a strong blue spark visible at each cylinder while cranking the engine? 	Yes	Ignition system is normal.
		No	Some cylinders do not spark: <ul style="list-style-type: none"> Go to the next step. All cylinders do not spark: <ul style="list-style-type: none"> Go to Step 5.
4	<ul style="list-style-type: none"> Inspect the following wiring harnesses for open or short: <ul style="list-style-type: none"> Ignition coil No.1 terminal B—PCM terminal 2BE Ignition coil No.2 terminal B—PCM terminal 2BF Ignition coil No.3 terminal B—PCM terminal 2BG Ignition coil No.4 terminal B—PCM terminal 2BH Are the wiring harnesses normal? 	Yes	Inspect and replace the ignition coil.
		No	Repair or replace the malfunctioning part, then go to Step.1.
5	<ul style="list-style-type: none"> Measure the voltage at terminal A in each ignition coils. Is the voltage B+? 	Yes	Go to the next step.
		No	Inspect power supply circuit of ignition coils.
6	<ul style="list-style-type: none"> Does the PCM connector or ignition coil connectors have poor connection? 	Yes	Repair or replace the connector, then go to Step.1.
		No	Go to the next step.
7	<ul style="list-style-type: none"> Are the following parts normal? <ul style="list-style-type: none"> CKP sensor and crankshaft pulley 	Yes	Inspect for open or short circuit in wiring harness and connector of CKP sensor.
		No	Repair or replace the malfunctioning part, then go to Step.1.