

Component Procedures: Fuel Injector

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Component Procedures: Fuel Injector

Parts and Labor (itype_189)

Parts

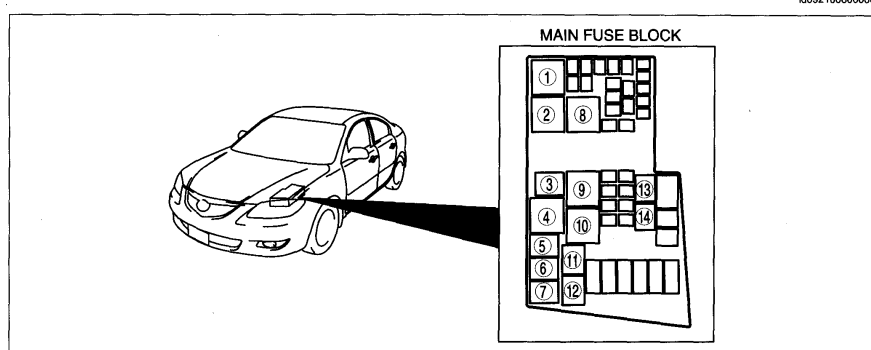
Qualifier	Part #	Name	Price	Note
Injector > Federal	L3G513250	Injector	203.65	
Injector > California	LF6213250	Injector	84.77	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	One or All	B	0.9	0.6

Components (itype_32)

RELAY LOCATION

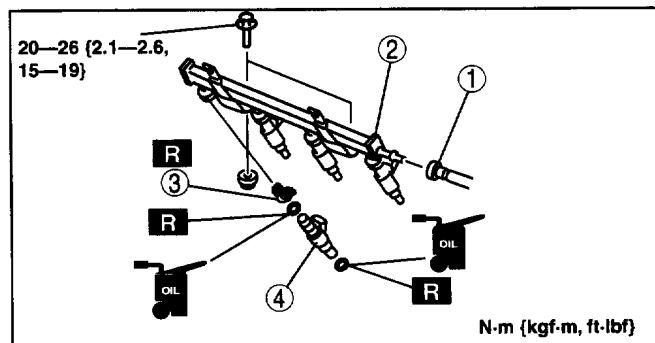


1	Main relay
2	Starter relay
3	A/C relay
4	Blower relay (L3 with TC)
5	Injector driver relay (L3 with TC) AT main relay (FS5A-EL)
6	Drive-by-wire relay
7	Horn relay
8	Rear washer relay (L3 with TC)

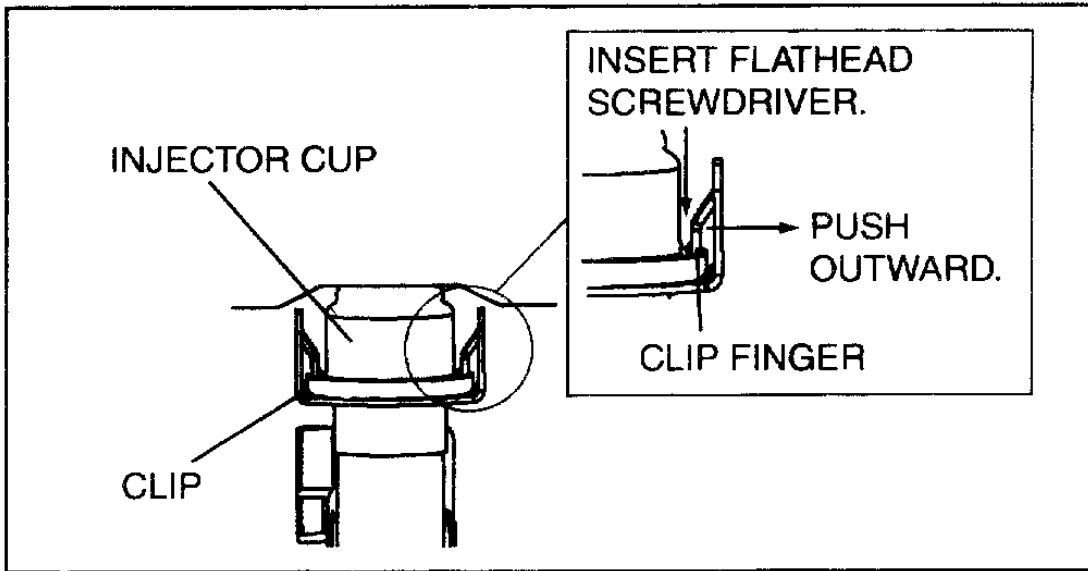
9	DRL relay (L3 with TC) Blower relay (except L3 with TC)
10	Headlight cleaner relay (L3 with TC) Rear washer relay (except L3 with TC)
11	Rear window defroster relay
12	Front fog light relay
13	Fuel pump relay No.2 (L3 with TC) DRL relay (except L3 with TC) Headlight cleaner relay (except L3 with TC)
14	Fuel pump relay

Removal and Replacement (itype_401)

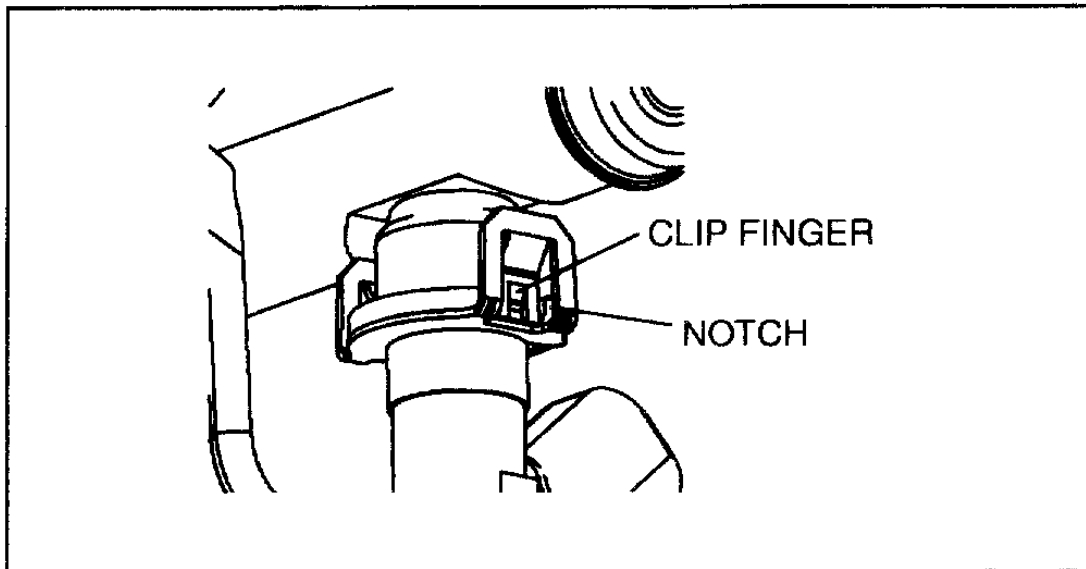
1	Quick release connector
2	Fuel distributor
3	Injector clip
4	Fuel injector



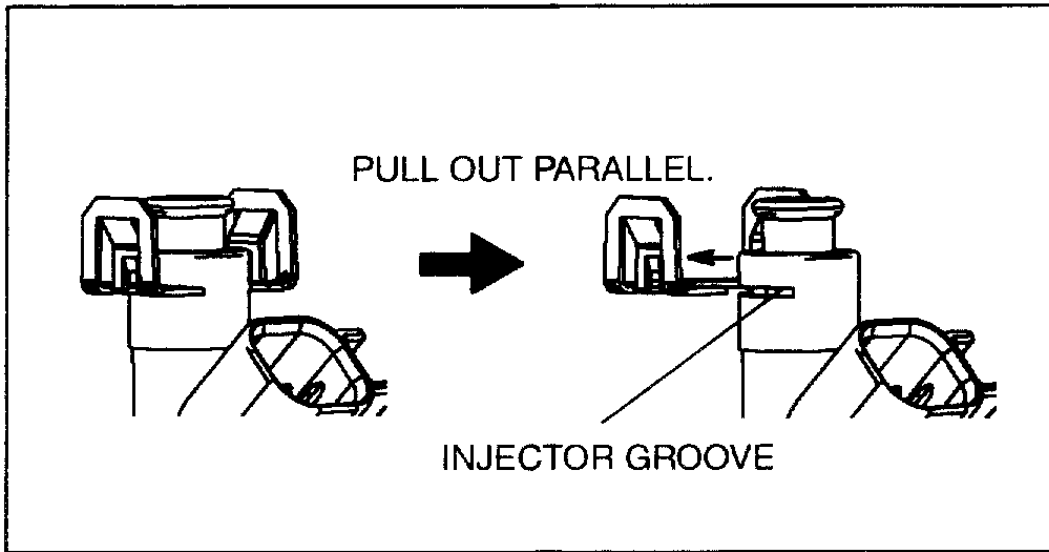
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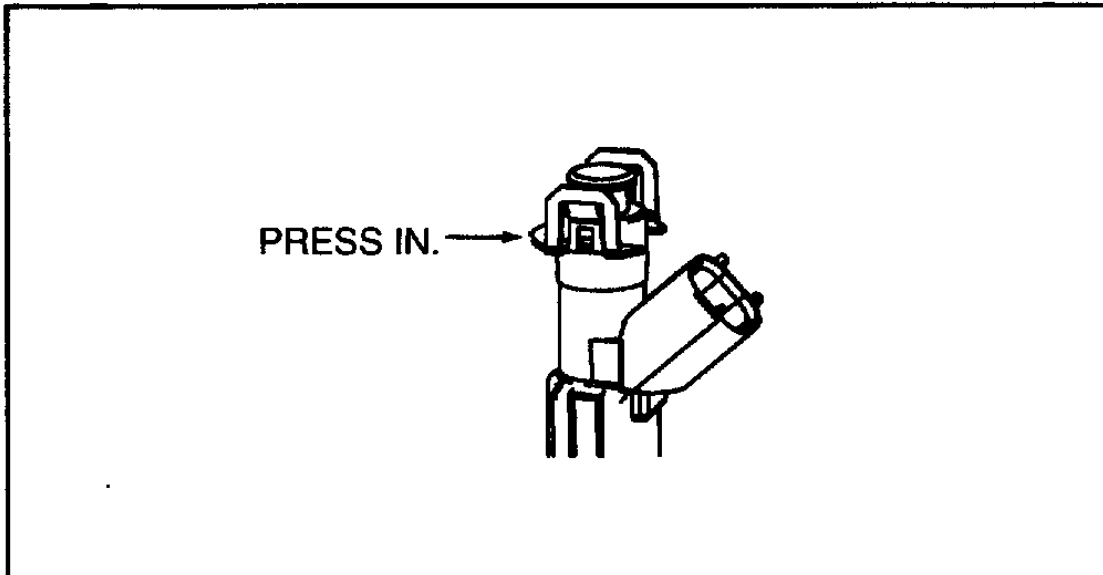
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Electrical (itype_27)

Fuel injector
resistance

California emission regulation applicable model 13.1 - 14.5 ohms [20 °C {68 °}]

Except for California emission regulation applicable model 11.4 - 12.6 ohms [20 °C {68 °F}]

Pressure, Vacuum and Temperature (itype_29)

Fuel Injector
Volume
Standard

California emission regulation applicable model:

260-320 ml {260-320 cc, 15.9 - 19.5 cu.in}/min

Except for California emission regulation applicable mode:

195-245 ml {195-245cc, 11.9-14.9 cu.in}/min

Component Tests and General Diagnostics (itype_383)

Fuel Injector Operation Inspection

STEP	INSPECTION	RESULTS	ACTION
1	While cranking the engine, inspect for fuel injector operation sound at each cylinder using a soundscope. Is operation sound heard?	Yes	Fuel injector operation is normal.
		No	All cylinders not heard: Go to the next step. Some cylinders not heard: Go to Step 3.
2	Perform main relay operation inspection. Is main relay operation normal?	Yes	Inspect the following: <ul style="list-style-type: none"> • Fuel injector power system related wiring harness and connectors • PCM connectors • Fuel injector GND and related wiring harness and connectors
		No	Repair or replace malfunctioning parts.
3	Switch fuel injector connector of not operating fuel injector with operating fuel injector. Is operation sound heard?	Yes	Go to the next step.
		No	Replace the fuel injector.
4	Are wiring harness and connectors of not operation fuel injector normal? (Open or short)	Yes	Inspect PCM terminal voltage of fuel injector signal.
		No	Repair or replace malfunctioning parts.