

# PGM-FI Control System

## Troubleshooting Flowchart — Lock-up Control Solenoid Valve (A/T only) —



Self-diagnosis LED indicates code 19: A problem in the Lock-up Control Solenoid Valve circuit.

- Check Engine warning light has been reported on.  
- LED indicates CODE 19.

Turn the ignition switch OFF.

Remove HAZARD fuse in the main fuse box for 10 seconds to reset ECU.

Drive vehicle.

Is Check Engine warning light on and does LED indicate CODE 19 ?

NO

Intermittent failure.  
Check connectors at lock-up control solenoid valve.

YES

Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 6-75). Disconnect "A" connector from the ECU only, not the main wire harness.

Disconnect the 2P connector from the lock-up control solenoid valve.

Check for continuity individually between A8 terminal and body ground.

Does continuity exist ?

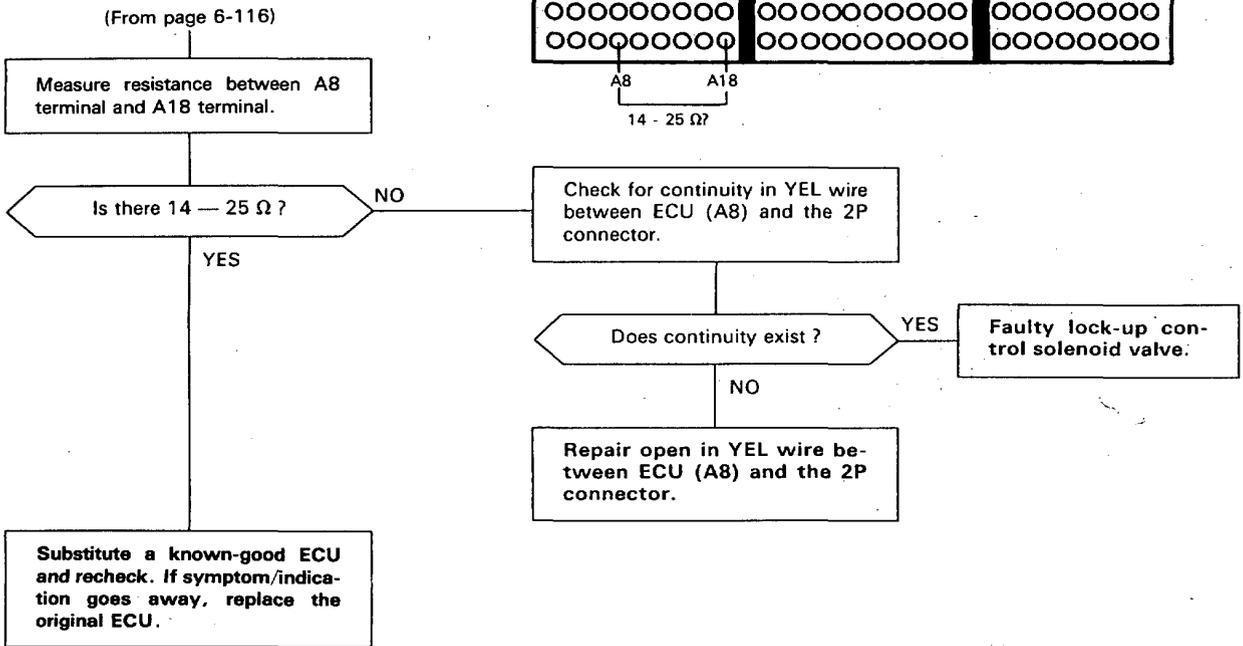
YES

Repair short in YEL wire between ECU (A8) and the 2P connector.

NO

Reconnect the 2P connector.

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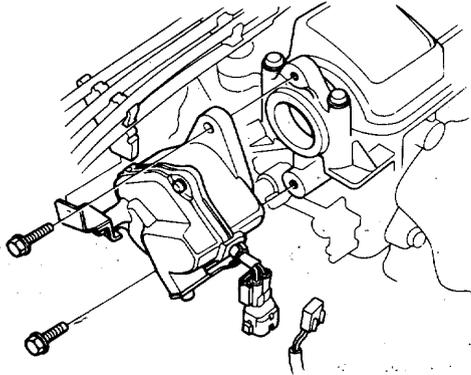


# PGM-FI Control System

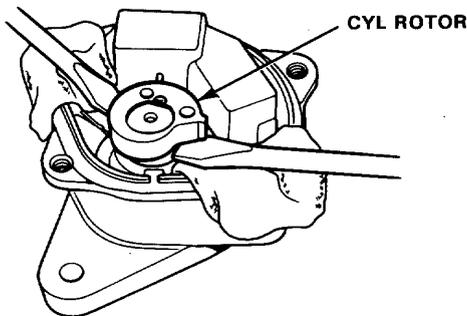
## CYL Sensor Overhaul [1.6 l DOHC only]

### Disassembly

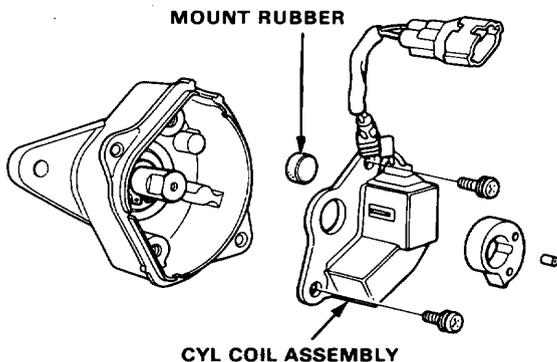
1. Remove the CYL sensor from the engine.



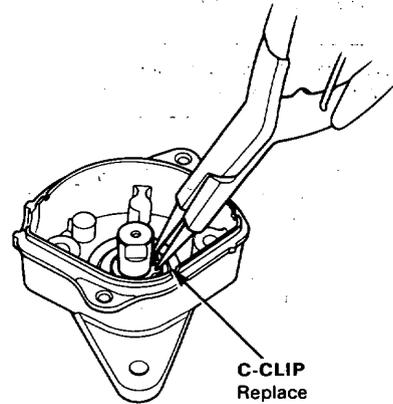
2. Carefully pry up the CYL rotor by using two screwdrivers as shown. Do not damage the CYL rotor.



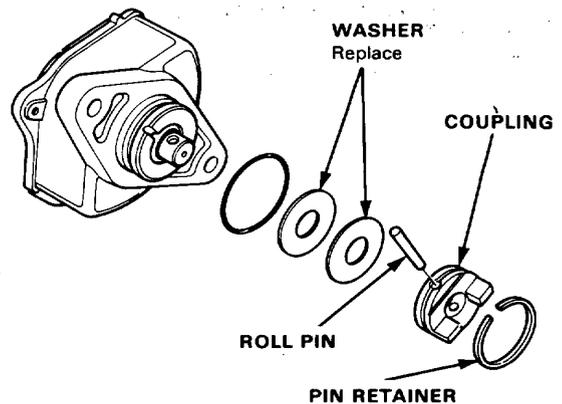
3. Pull the CYL coil assembly and mount rubber out from the sensor housing by removing the screws.



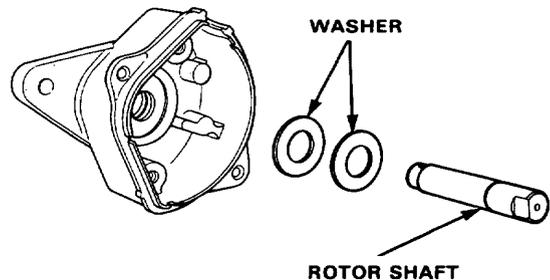
4. Remove the C-clip.



5. Slide off the pin retainer being careful not to stretch it.
6. Separate the coupling from the shaft by removing the roll pin as shown.



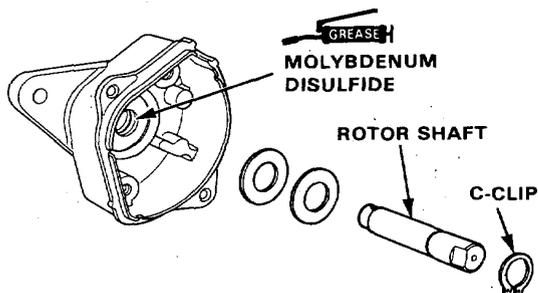
7. Remove the rotor shaft.



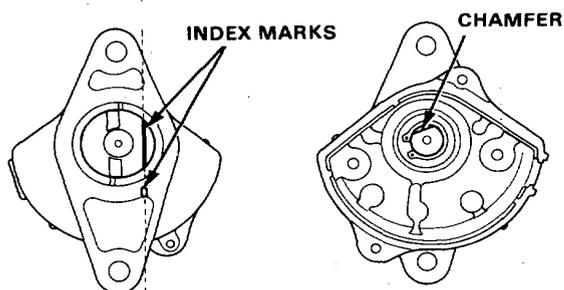


## Reassembly

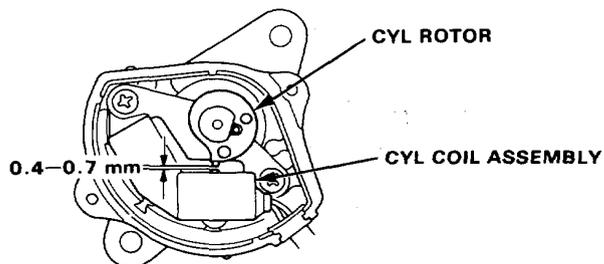
1. Apply molybdenum disulfide grease to the sensor housing, install the washers on the rotor shaft, then install it in the sensor housing. Install a new C-clip.



2. Install the coupling with its index mark facing in the direction shown, install the pin, and install the pin retainer.

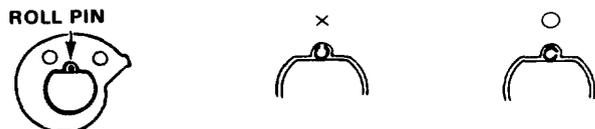


3. Install the mount rubber, then install the CYL coil assembly and the CYL rotor. Adjust the air gap to 0.4–0.7 mm.



### NOTE:

- Install the rotor with the part number facing up.
- Install the roll pin so that it faces as shown below.



## Installation

1. Install a new O-ring on the sensor housing.
2. Slip the sensor into the position.

NOTE: The lugs on the end of the sensor and its mating grooves in the camshaft end are both offset to eliminate the possibility of installing the sensor 180° out of time.

