

G - TESTS W/CODES

Article Text

1993 Honda Prelude

For Cadi Centre Nsk CA 95051

Copyright © 1998 Mitchell Repair Information Company, LLC

Sunday, July 08, 2001 11:29AM

ARTICLE BEGINNING

1993 ENGINE PERFORMANCE

Honda Self-Diagnostics

Prelude

INTRODUCTION

If no faults were found while performing BASIC TESTING, proceed with self-diagnostics. If no Diagnostic Trouble Codes (DTCs) or only pass codes are present after entering self-diagnostics, proceed to H - TESTS W/O CODES article in the ENGINE PERFORMANCE Section for diagnosis by symptom (i.e., ROUGH IDLE, NO START, etc.).

SELF-DIAGNOSTIC SYSTEM

Hard Failures

Hard failures cause Malfunction Indicator Light (MIL) to illuminate and remain on until problem is repaired. If light comes on and remains on (light may flash) during vehicle operation, cause of malfunction must be determined by retrieving DTCs and using TROUBLE CODE CHARTS. See RETRIEVING CODES. If a sensor fails, control unit will use a substitute value in its calculations to continue engine operation. In this condition, commonly known as limp-in mode, the vehicle runs but driveability will not be optimum.

Intermittent Failures

Intermittent failures may cause Malfunction Indicator light (MIL) to flicker or illuminate and go out after the intermittent fault goes away. The corresponding DTC will be retained in ECM memory. If related fault does not reoccur within 50 starter operations, related DTC will be erased from control unit memory. Intermittent failures may be caused by sensor, connector or wiring related problems. See INTERMITTENTS in H - TESTS W/O CODES article in the ENGINE PERFORMANCE Section.

MALFUNCTION INDICATOR LIGHT (MIL)

All models are equipped with an MIL. As a bulb check, light illuminates when ignition is on and engine is not running. MIL also illuminates when a system failure has been detected and a corresponding DTC has been set in ECM memory. Not all trouble codes will activate MIL. If MIL is on and no DTCs are in memory, see H - TESTS W/O CODES article in the ENGINE PERFORMANCE Section.

RETRIEVING CODES

See TROUBLE CODE DEFINITION table and proceed to appropriate TROUBLE CODE CHART for testing. All voltage tests should be performed with a Digital Volt-Ohmmeter (DVOM) with a minimum 10-megohm input impedance, unless specifically stated differently in testing procedure.

Fig. 1: Locating Service Check Connectors, Prelude
Courtesy of American Honda Motor Co.

Code(1)	System Affected	Probable Cause
0	ECM	No Signal To ECM
1	Heated Oxygen Sensor (HO2S)	Problem In HO2S Circuit
3	MAP Sensor	Electrical Problem In MAP Sensor
4	Crank Angle	

[illegible]

?	31	?	A/T FI Signal B	?	Problem In A/T Control	?
?		?	(Accord & Prelude)	?	Unit And ECM Circuit	?
AA?						
?	41	?	Heated Oxygen Sensor	?		?
?		?	(HO2S) Heater	?	Problem With HO2S Circuit	?
AA?						
?	43	?	Fuel Supply System	?	Problem With HO2S Circuit	?
?		?	(Except D15Z1 Engine)	?	Or Fuel System	?
AA?						
?	48	?	Heated Oxygen Sensor	?		?
?		?	(HO2S - D15Z1 Engine)	?	Problem With HO2S Circuit	?
AA?						
?	(1) - If codes other than these are indicated, repeat self-					?
?	diagnosis. If code(s) reappear, substitute a known good ECM,?					
?	and recheck codes. If code(s) clear, replace ECM.					?
AAU						

ECM RESET PROCEDURE/CLEARING CODES

NOTE: Some models have an anti-theft code built into the radio circuit. Clearing codes cancels clock and radio settings; make note of settings before beginning reset procedure. After ECM reset, the radio will not function until code is entered.

To reset ECM, remove BACK UP fuse (CLOCK/RADIO fuse on Prelude) from underhood fuse/relay block. Leave fuse out for 10 seconds to reset ECM.

ECM LOCATION

On Accord and Prelude, ECM is located under carpet in passenger-side footwell. The ECM is located in passenger side kick panel on Civic and Civic Del Sol. See Fig. 1.

SUMMARY

If no hard trouble codes (or only pass codes) are present, driveability symptoms exist or intermittent codes exist, proceed to H - TESTS W/O CODES article in the ENGINE PERFORMANCE Section for diagnosis by symptom (i.e., ROUGH IDLE, NO START, etc.) or intermittent diagnostic procedure.

DIAGNOSTIC TROUBLE CODE CHARTS

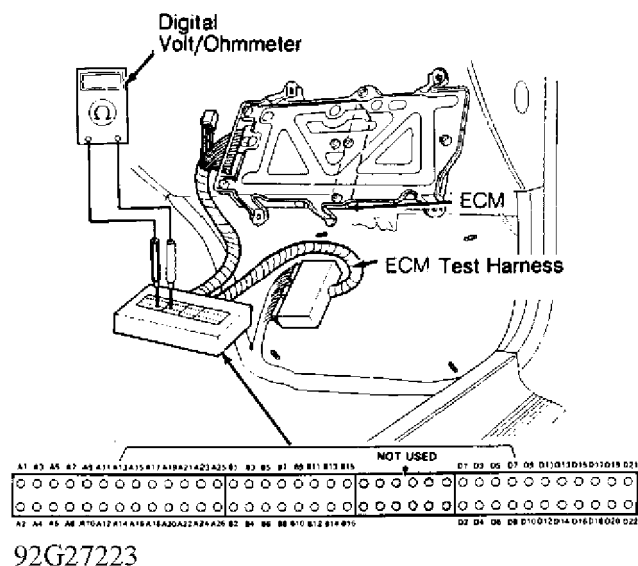
NOTE: In the following diagnostic trouble code charts, illustrations and schematics are courtesy of American Honda

Motor Co., Inc.

Using Diagnostic Trouble Code Charts

To use DIAGNOSTIC TROUBLE CODE CHARTS, see RETRIEVING CODES under SELF-DIAGNOSTIC SYSTEM. After codes have been recorded, proceed to appropriate DIAGNOSTIC TROUBLE CODE CHART.

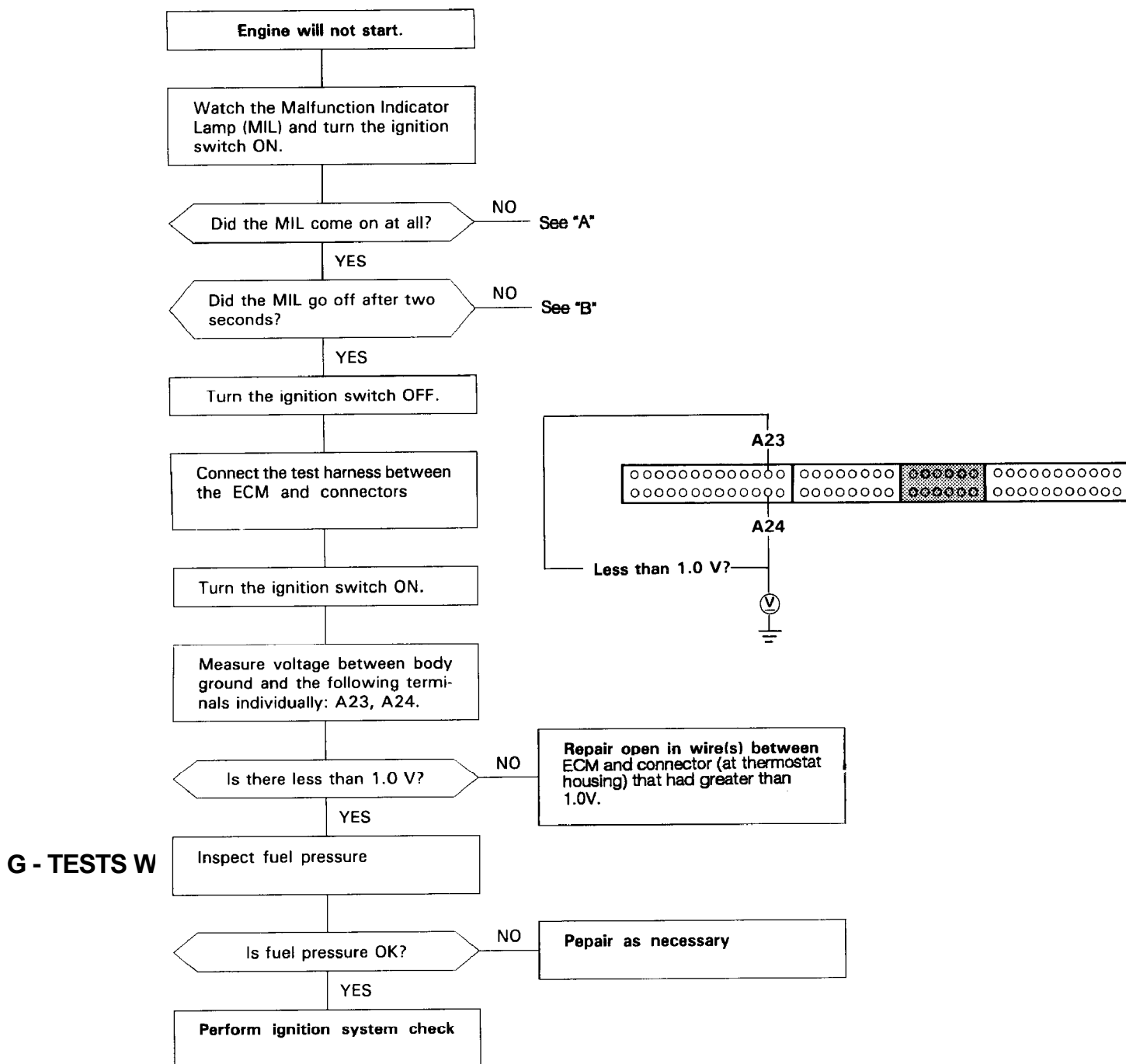
When directed by chart to install ECM test harness, turn ignition off. Connect ECM Test Harness (07LAJ-PT3010A) between ECM and connector. See Fig. 2. Follow code chart directions.



92G27223

Fig. 2: Installing PGM-FI ECM Test Harness & Identifying Terminals
Courtesy of American Honda Motor Co., Inc.

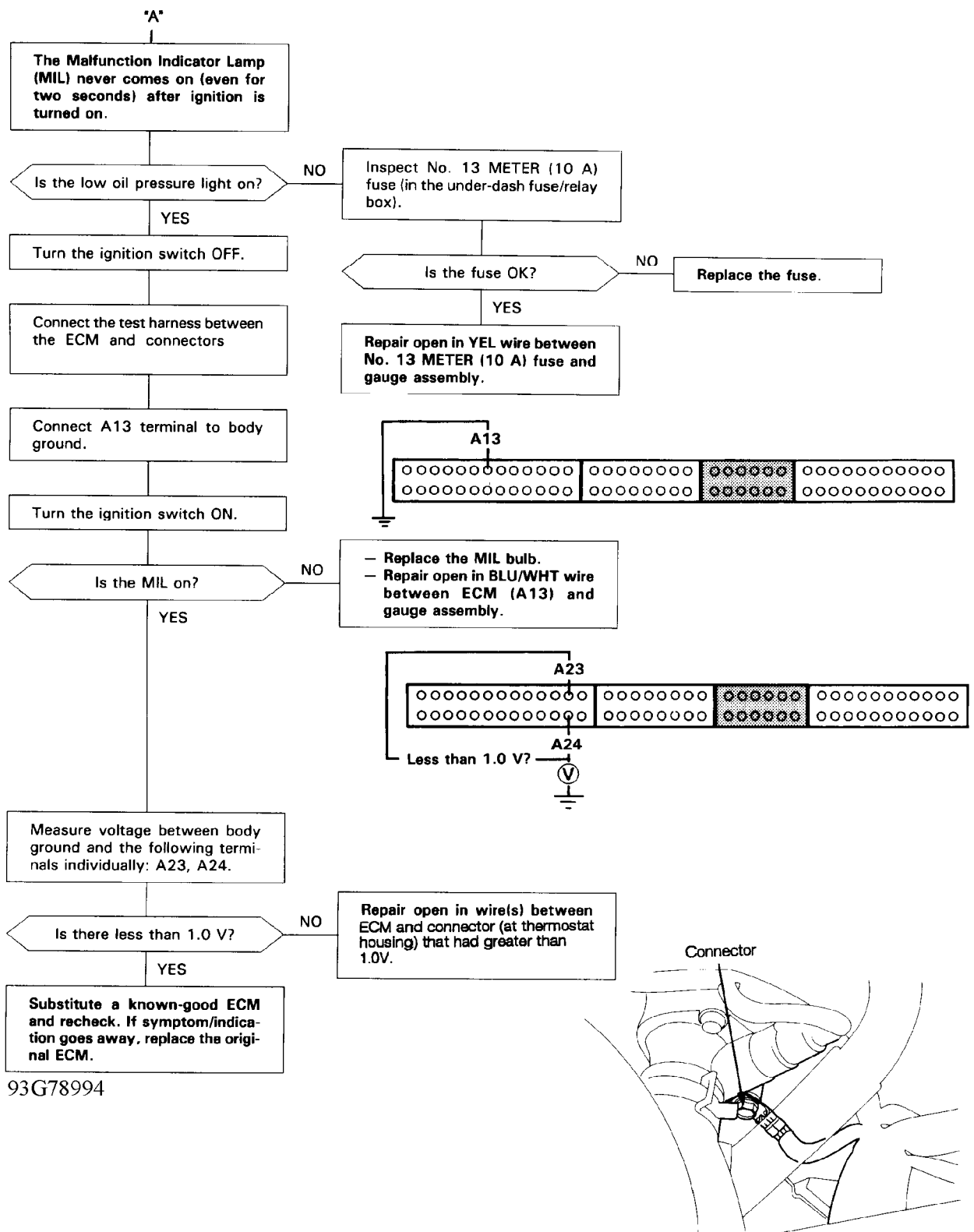
CODE/NO CODE NO START TROUBLE SHOOTING



G - TESTS W

93F78993

Fig. 3: Flowchart, No Start Trouble Shooting (1 of 5)
Courtesy of American Honda Motor Co., Inc.

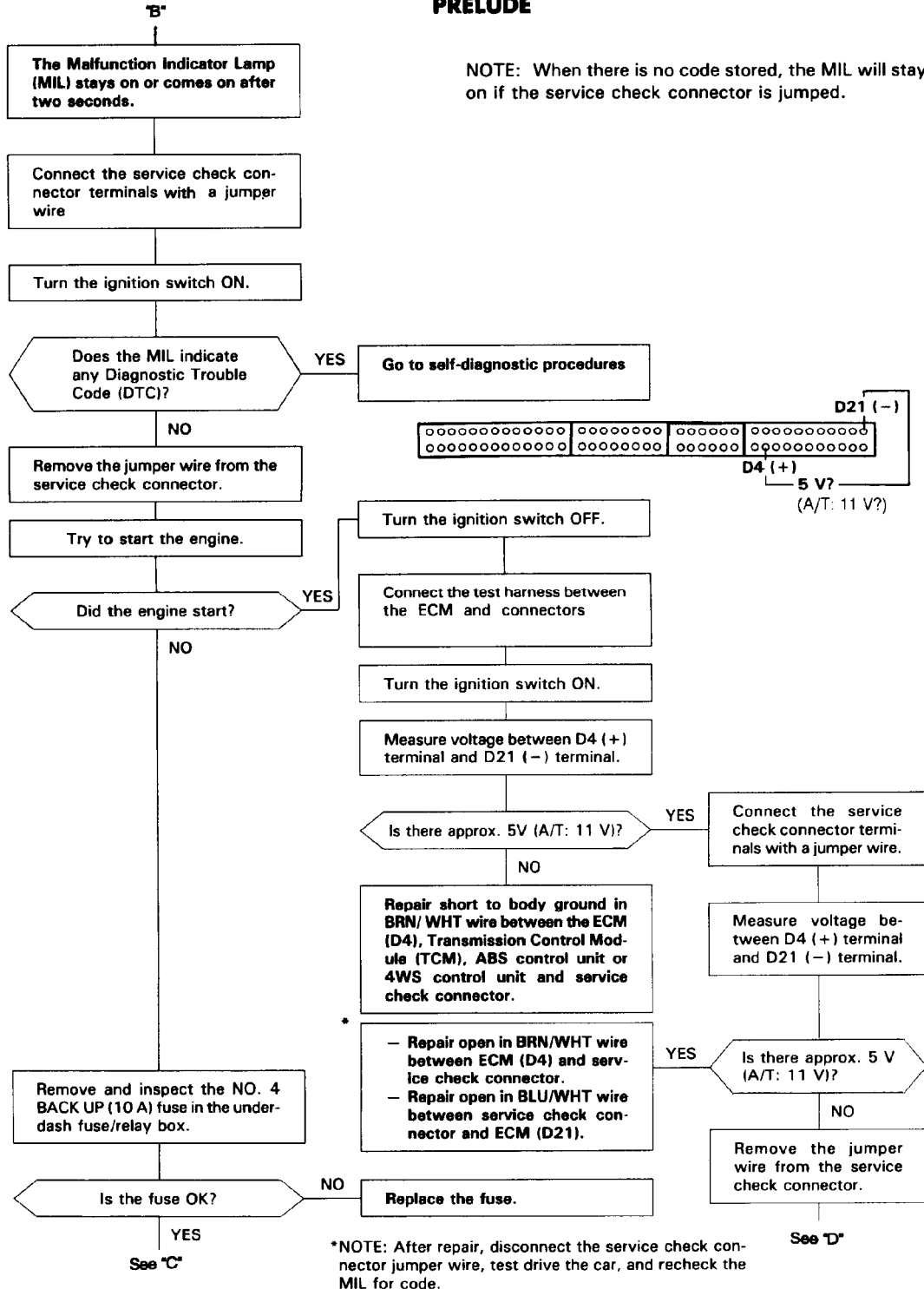


93G78994

G - TESTS W

Fig. 4: Flowchart, No Start Trouble Shooting (2 of 5)
Courtesy of American Honda Motor Co., Inc.

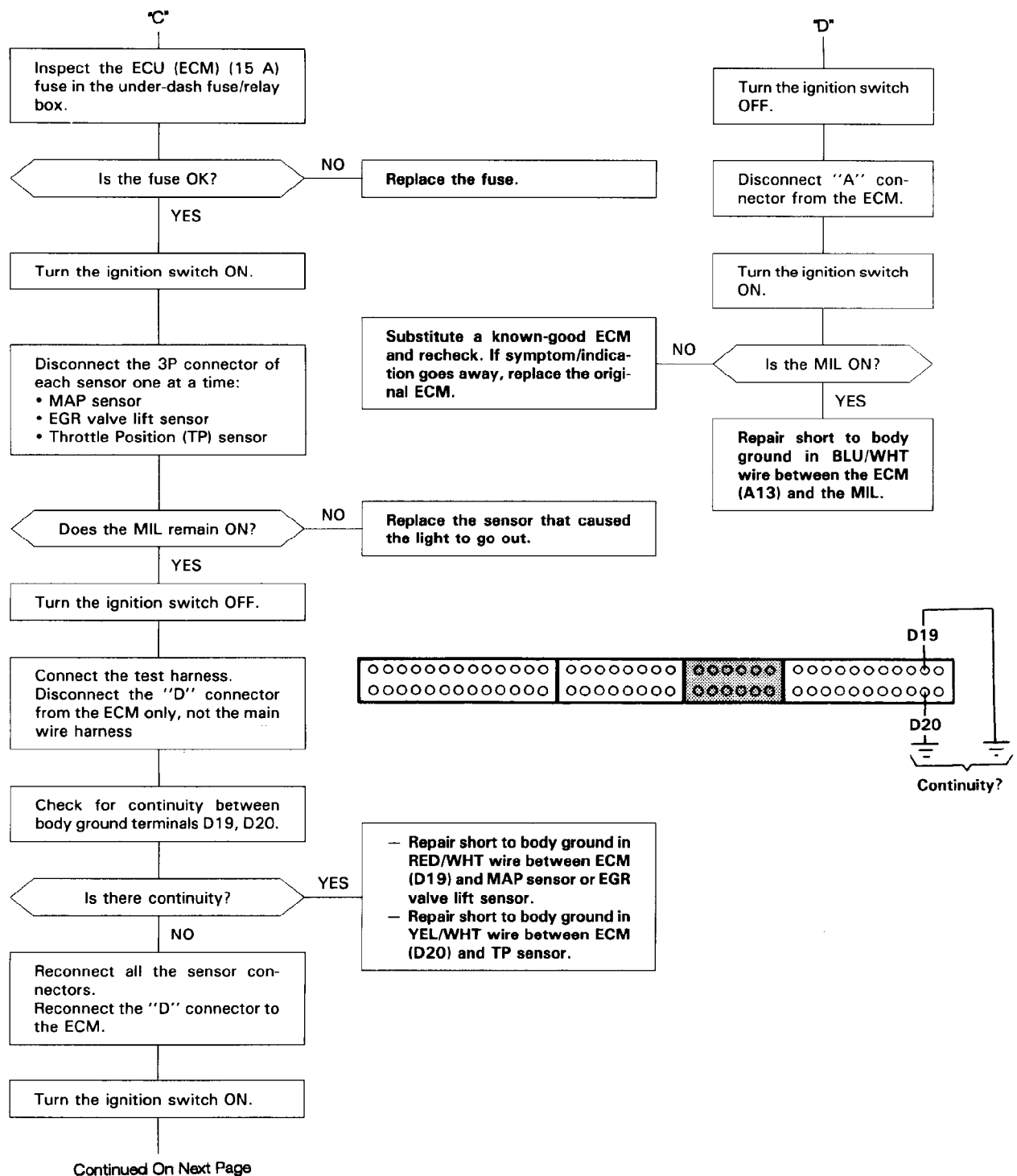
CODE/NO CODE (3 OF 5) NO START TROUBLE SHOOTING PRELUDE



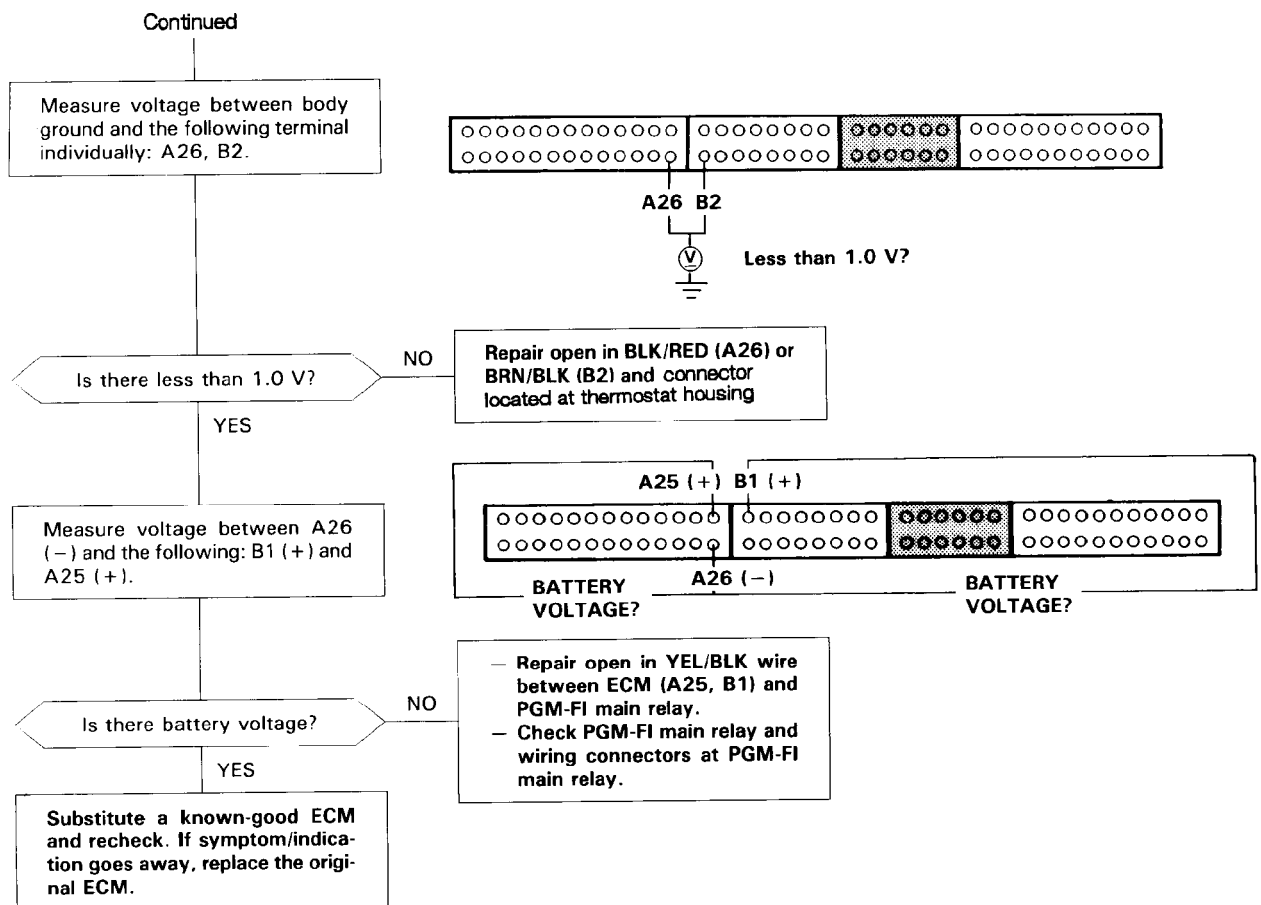
93H78995

Fig. 5: Flowchart, No Start Trouble Shooting (3 of 5)

Courtesy of American Honda Motor Co., Inc.



93I78996
 Fig. 6: Flowchart, No Start Trouble Shooting (4 of 5)
 Courtesy of American Honda Motor Co., Inc.



93J78997

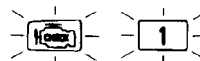
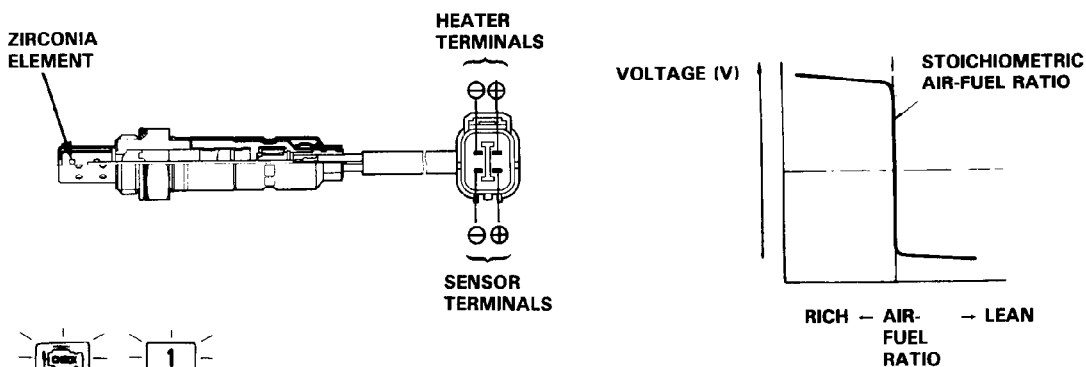
Fig. 7: Flowchart, No Start Trouble Shooting (5 of 5)
 Courtesy of American Honda Motor Co., Inc.

CODE 1 - HEATED OXYGEN SENSOR (HO2S)



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 1: A problem in the Heated Oxygen Sensor (HO2S) circuit.

The Heated Oxygen Sensor (HO2S) detects the oxygen content in the exhaust gas and signals the ECM. In operation, the ECM receives the signals from the sensor and varies the duration during which fuel is injected. The HO2S has an internal heater. The heater stabilizes the sensor's output. The HO2S is installed in the exhaust manifold (H23A1 engine (USA: Si/Canada: SR), H22A1 engine (USA: Si VTEC/Canada: SR-V): in the exhaust pipe A).



- The MIL has been reported on.
- With service check connector jumped code 1 is indicated.

Do the ECM Reset Procedure.

Warm up engine to normal operating temperature (the radiator fan comes on).

Run engine for 60 seconds.

Road test with the manual transmission in 4th gear (A/T: 2 position). Starting at 1,600 rpm, accelerate using wide open throttle for at least 5 seconds. Then decelerate for at least 5 seconds with the throttle completely closed.

Is the MIL on and does it indicate code 1?

YES

Go To Code 43.

NO

Intermittent failure, system is OK at this time. Check for poor connections or loose wires at ECM, HO2S and connectors at right shock tower.

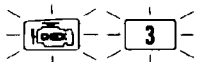
G - TESTS W

98 Mitc

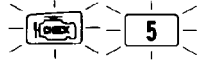
93A78998

Fig. 8: Code 1 Flowchart, Heated Oxygen Sensor
Courtesy of American Honda Motor Co., Inc.

CODE 3 - MAP SENSOR CIRCUIT

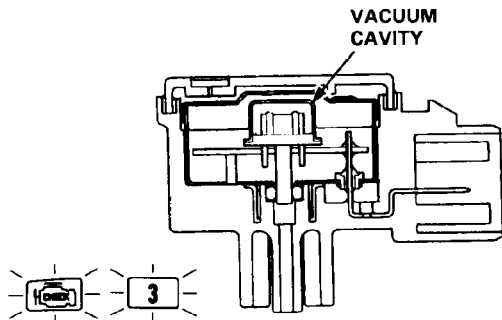


The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 3: An electrical problem in the Manifold Absolute Pressure (MAP) Sensor system.



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 5: A mechanical problem (vacuum leak) in the Manifold Absolute Pressure (MAP) Sensor System.

The MAP sensor converts manifold absolute pressure into electrical signals and inputs the ECM.



- Engine is warm and running.
- The MIL has been reported on.
- With service check connector jumped code 3 is indicated.

Do the ECM Reset Procedure.

Start the engine and allow it to idle.

Is the MIL on and does it indicate code 3?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).

Check ECM, MAP Sensor and connector under left side of dash for poor connections and loose wires.

YES

Turn the ignition switch OFF.

Disconnect the 3P connector from the MAP sensor.

Turn the ignition switch ON.

CONTINUED ON THE NEXT GRAPHIC

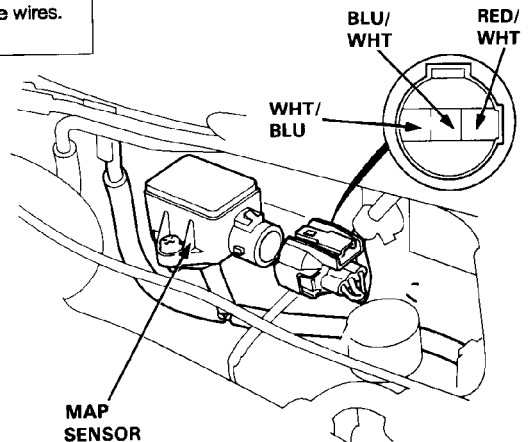
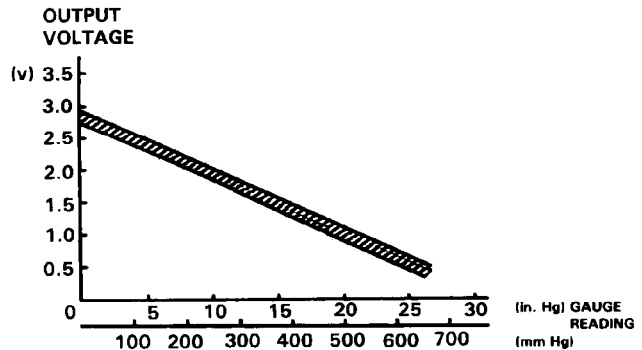


Fig. 9: Code 3 Flowchart, MAP Sensor Circuit (1 of 3)

Courtesy of American Honda Motor Co., Inc.

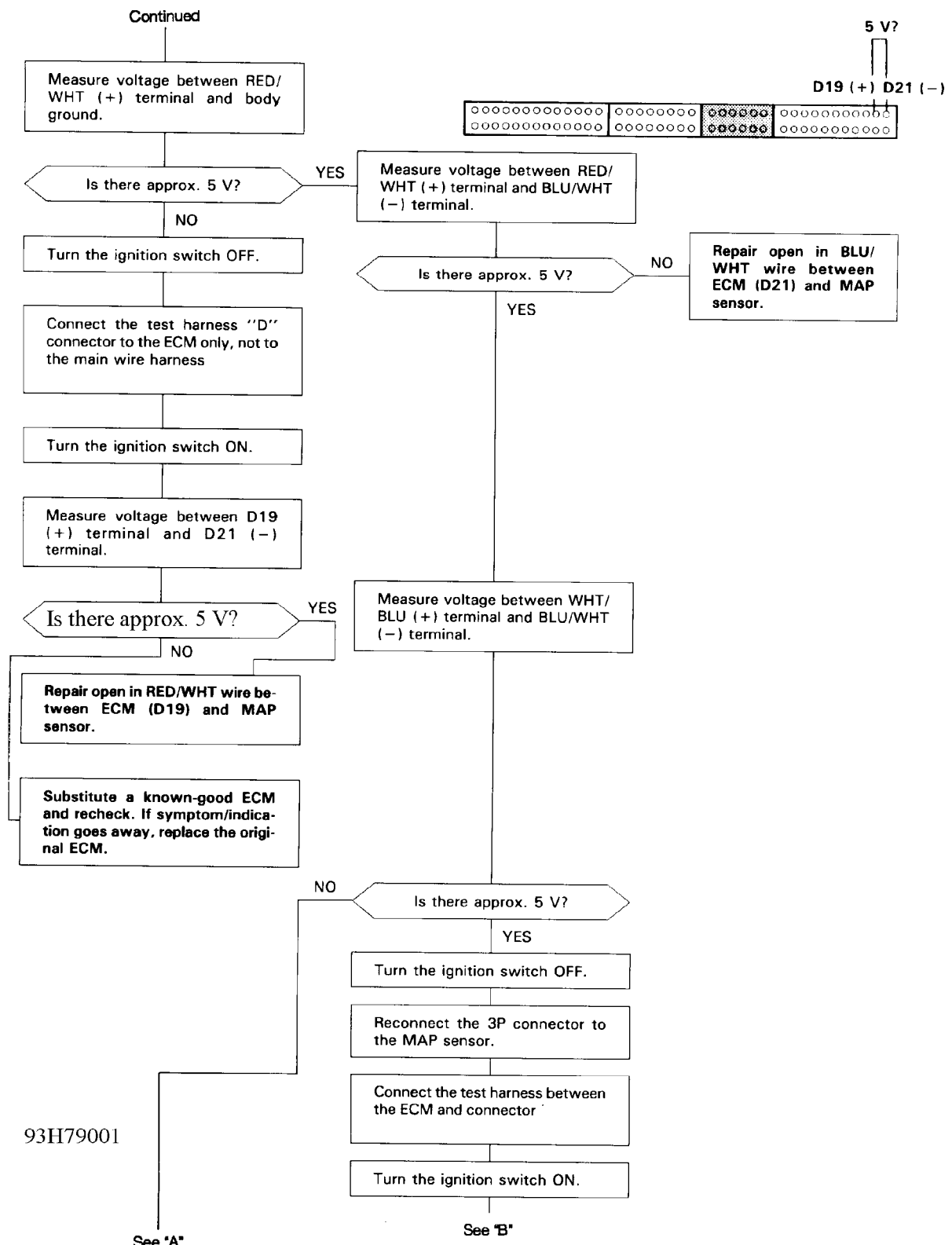
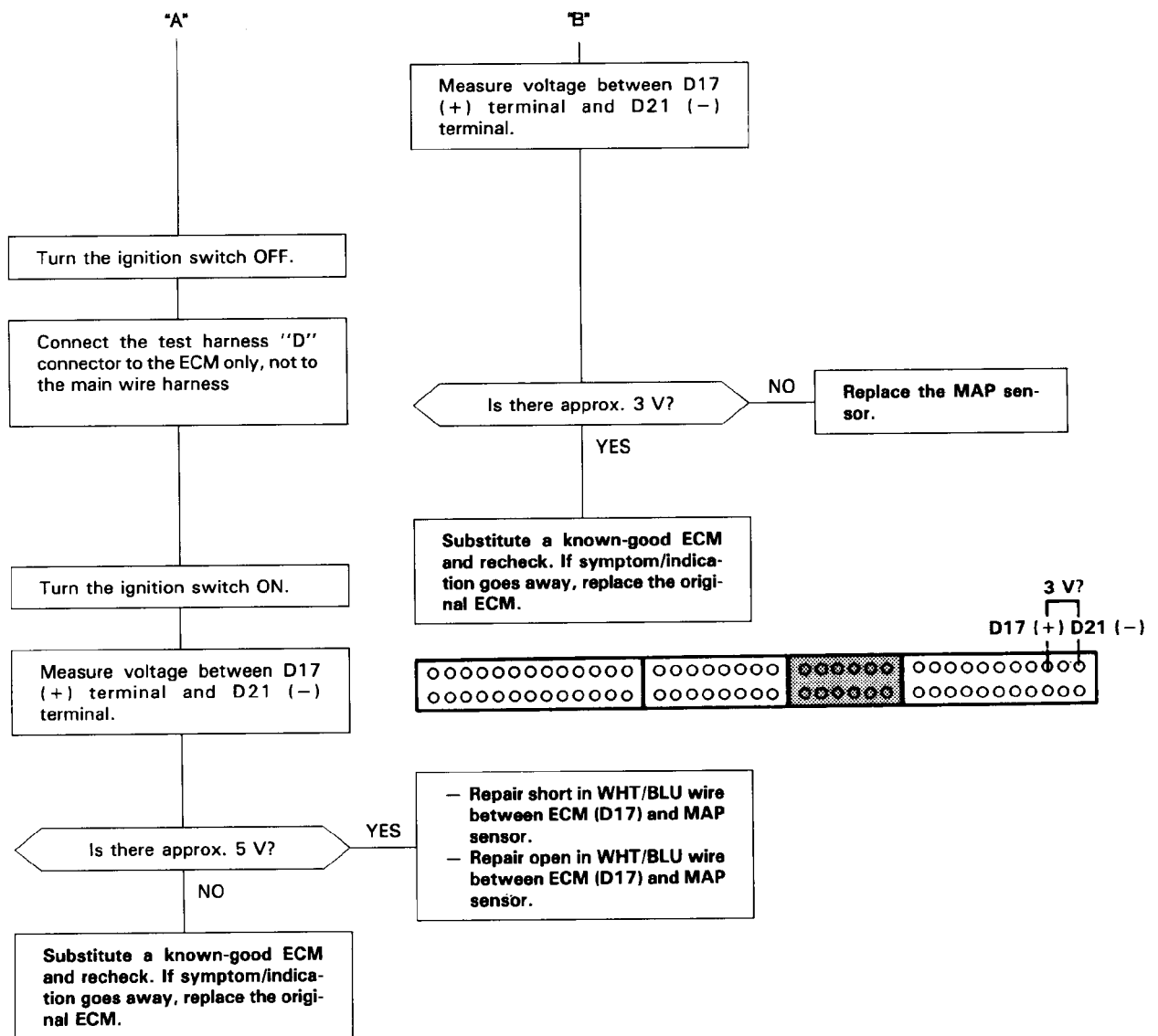


Fig. 10: Code 3 Flowchart, MAP Sensor Circuit (2 of 3)




Courtesy of American Honda Motor Co., Inc.



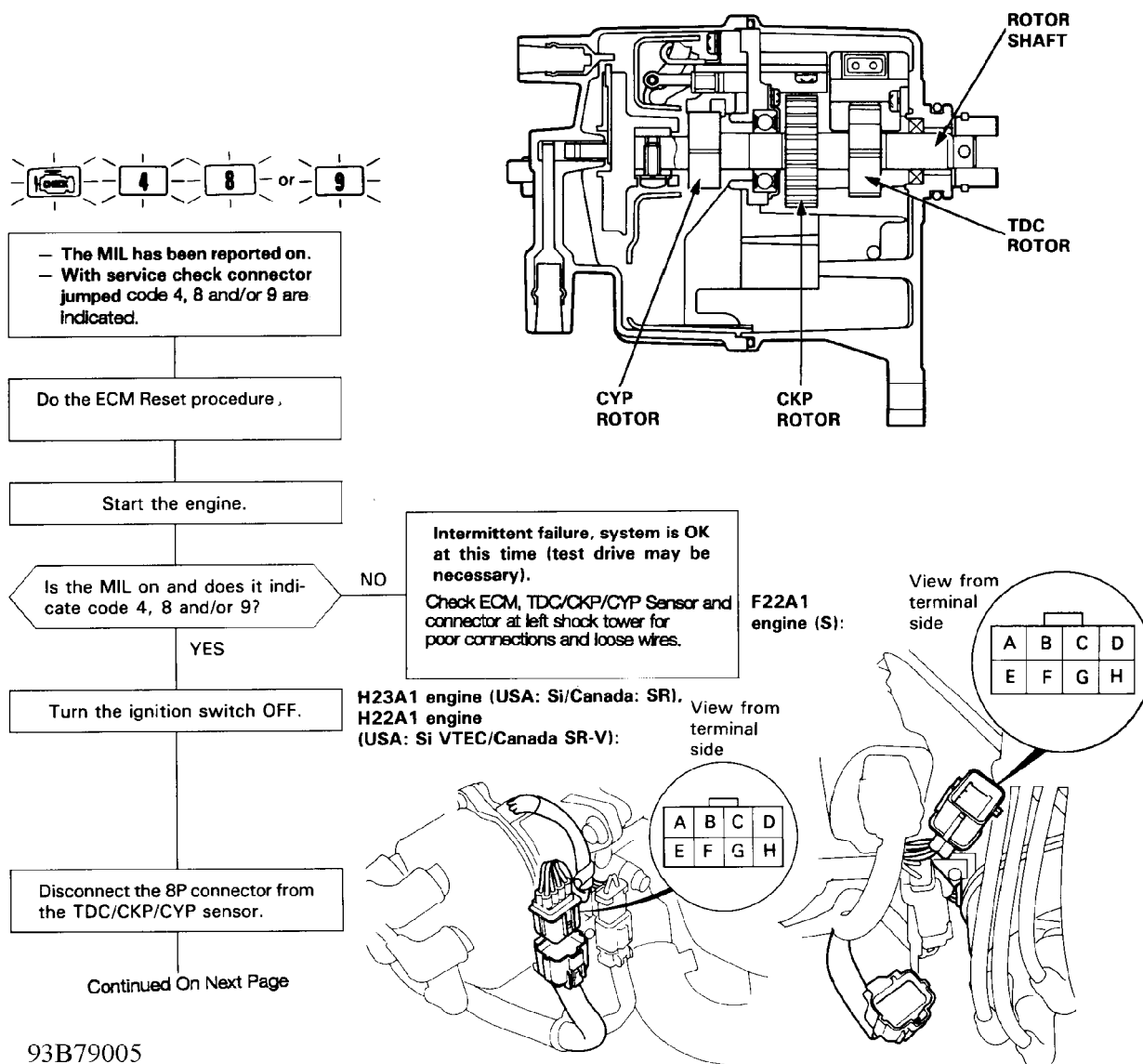
93J79003

Fig. 11: Code 3 Flowchart, MAP Sensor Circuit (3 of 3)
 Courtesy of American Honda Motor Co., Inc.

CODE 4, 8 AND/OR 9 - TDC/CKP/CYP SENSOR

-  **4** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 4: A problem in the Crankshaft Position (CKP) Sensor circuit.
-  **8** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 8: A problem in the Top Dead Center (TDC) Sensor circuit.
-  **9** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 9: A problem in the Cylinder Position (CYP) Sensor circuit.

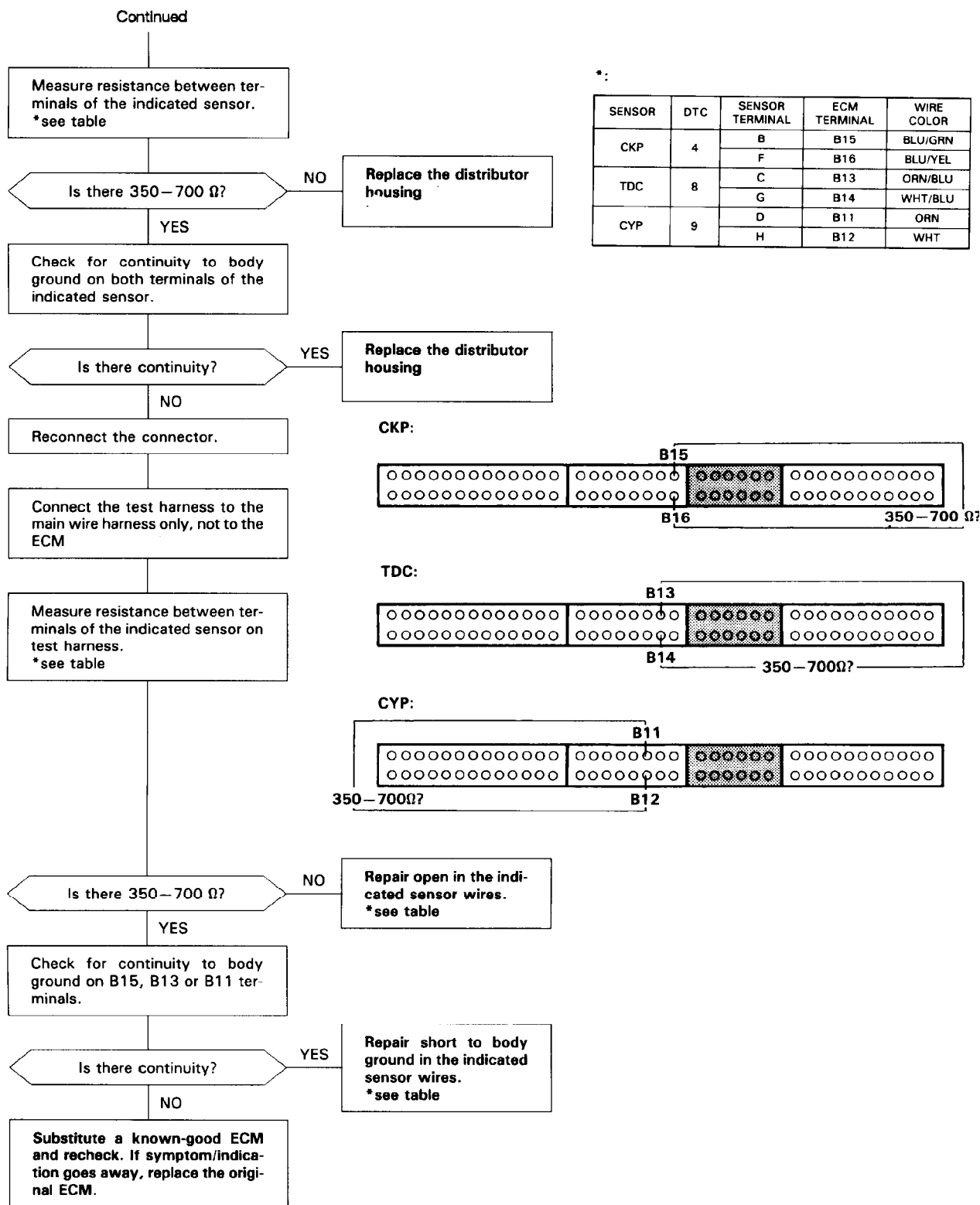
The CKP Sensor determines timing for fuel injection and ignition of each cylinder and also detects engine speed. The TDC Sensor determines ignition timing at start-up (cranking) and when crank angle is abnormal. The CYP Sensor detects the position of No. 1 cylinder for sequential fuel injection to each cylinder.



G - TESTS W

93B79005

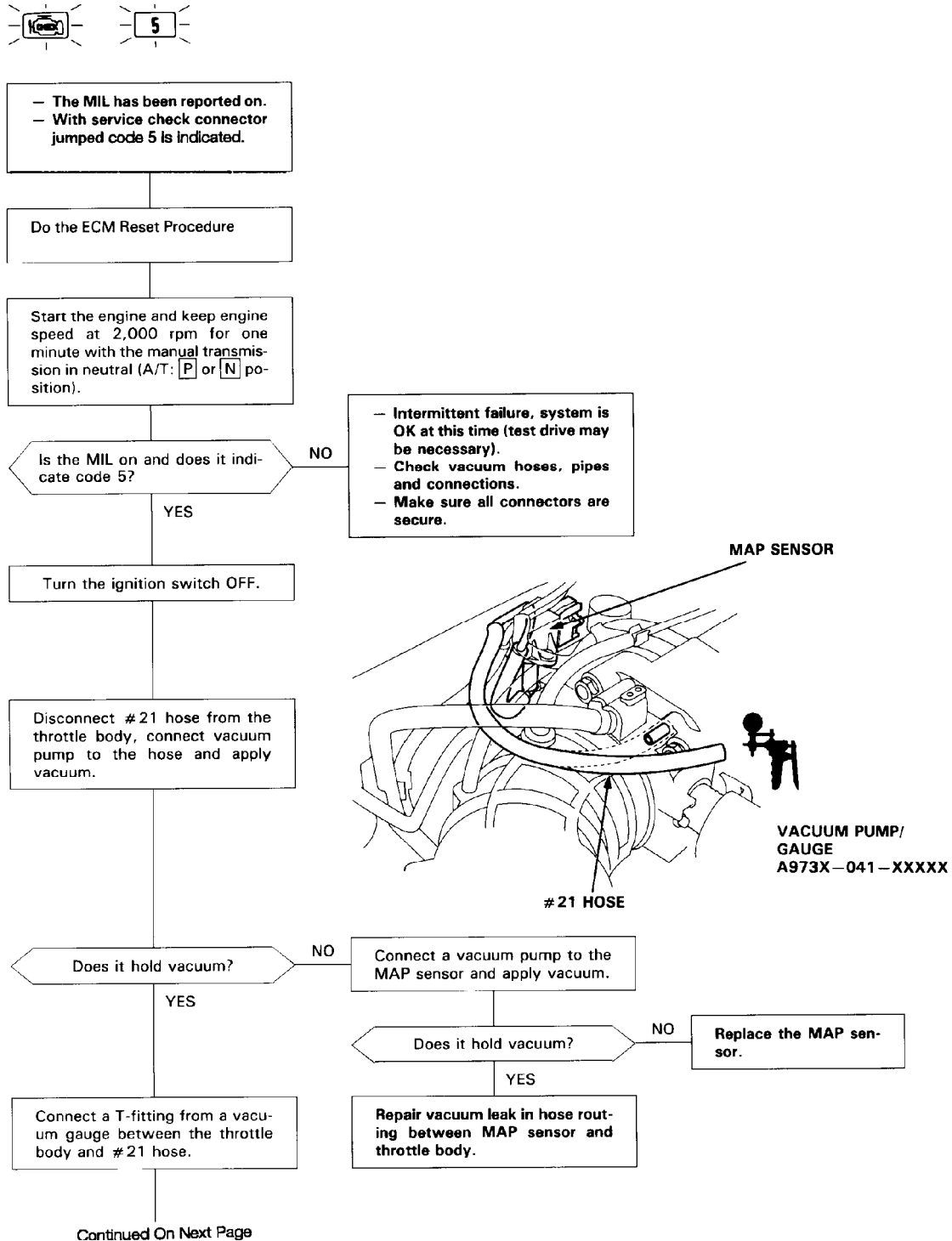
Fig. 12: Code 4, 8 and/or 9 Flowchart, TDC/CKP/CYP Sensor (1 of 2)
Courtesy of American Honda Motor Co., Inc.



93C79006

Fig. 13: Code 4, 8 and/or 9 Flowchart, TDC/CKP/CYP Sensor (2 of 2)

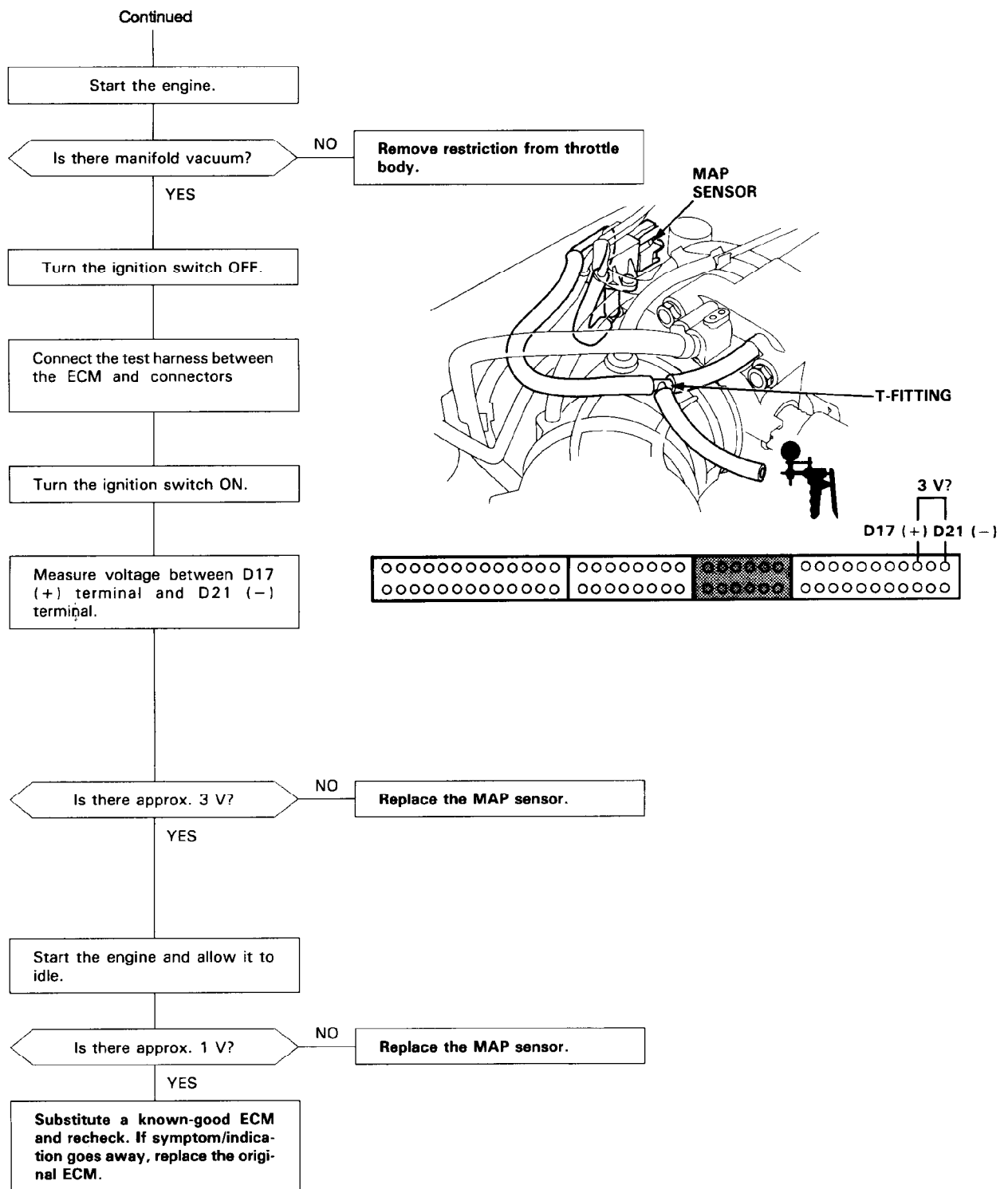
CODE 5 - MAP SENSOR CIRCUIT



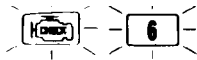
93D79007

Fig. 14: Code 5 Flowchart, MAP Sensor Circuit (1 of 2)

Courtesy of American Honda Motor Co., Inc.

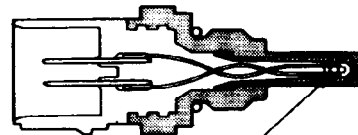


93F79008
Fig. 15: Code 5 Flowchart, MAP Sensor Circuit (2 of 2)
 Courtesy of American Honda Motor Co., Inc.



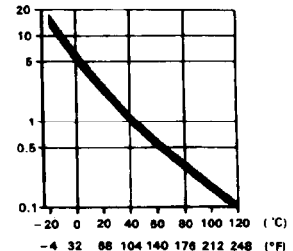
The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 6: A problem in the Engine Coolant Temperature (ECT) Sensor circuit.

The ECT Sensor is a temperature dependant resistor (thermistor). The resistance of the thermistor decreases as the engine coolant temperature increases as shown below.

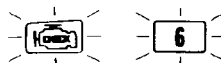


THERMISTOR

RESISTANCE (KΩ)



ENGINE COOLANT TEMPERATURE



- The MIL has been reported on.
- With service check connector jumped code 6 is indicated.

Do the ECM Reset Procedure.

Turn the ignition switch ON.

Is the MIL on and does it indicate code 6?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).

Check ECM, ECT Sensor, TCM and connector at right shock tower for poor connections and loose wires.

YES

Warm up engine to normal operating temperature (the radiator fan comes on).

Turn the ignition switch OFF.

Disconnect the 2P connector from the ECT sensor.

Measure resistance between the 2 terminals on the ECT sensor.

Is there 200-400 Ω?

NO

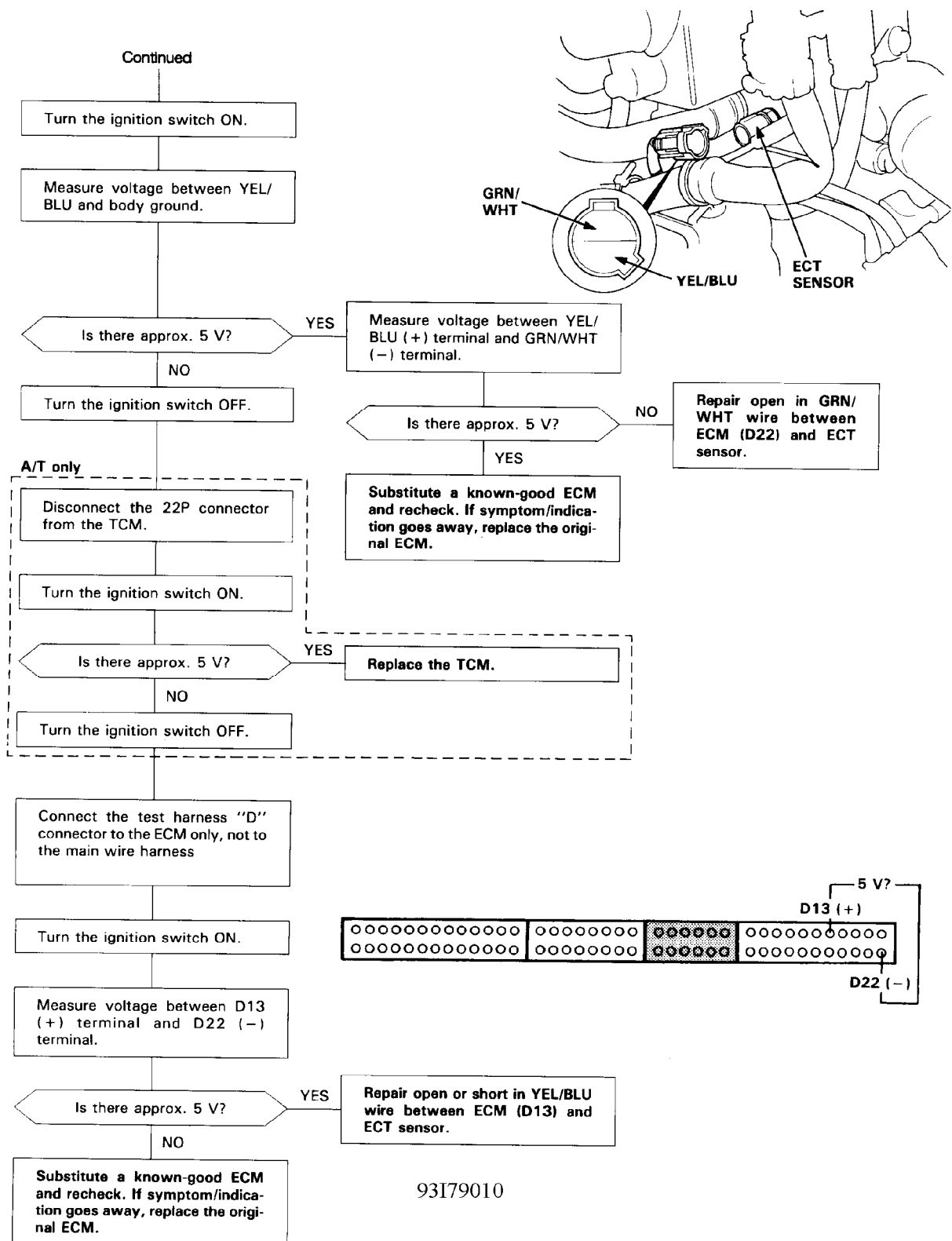
Replace the ECT sensor.

YES

Continued On Next Page

93F79009

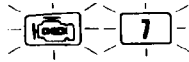
Fig. 16: Code 6 Flowchart, Engine Coolant Temperature Sensor (1 of 2)
Courtesy of American Honda Motor Co., Inc.



93I79010

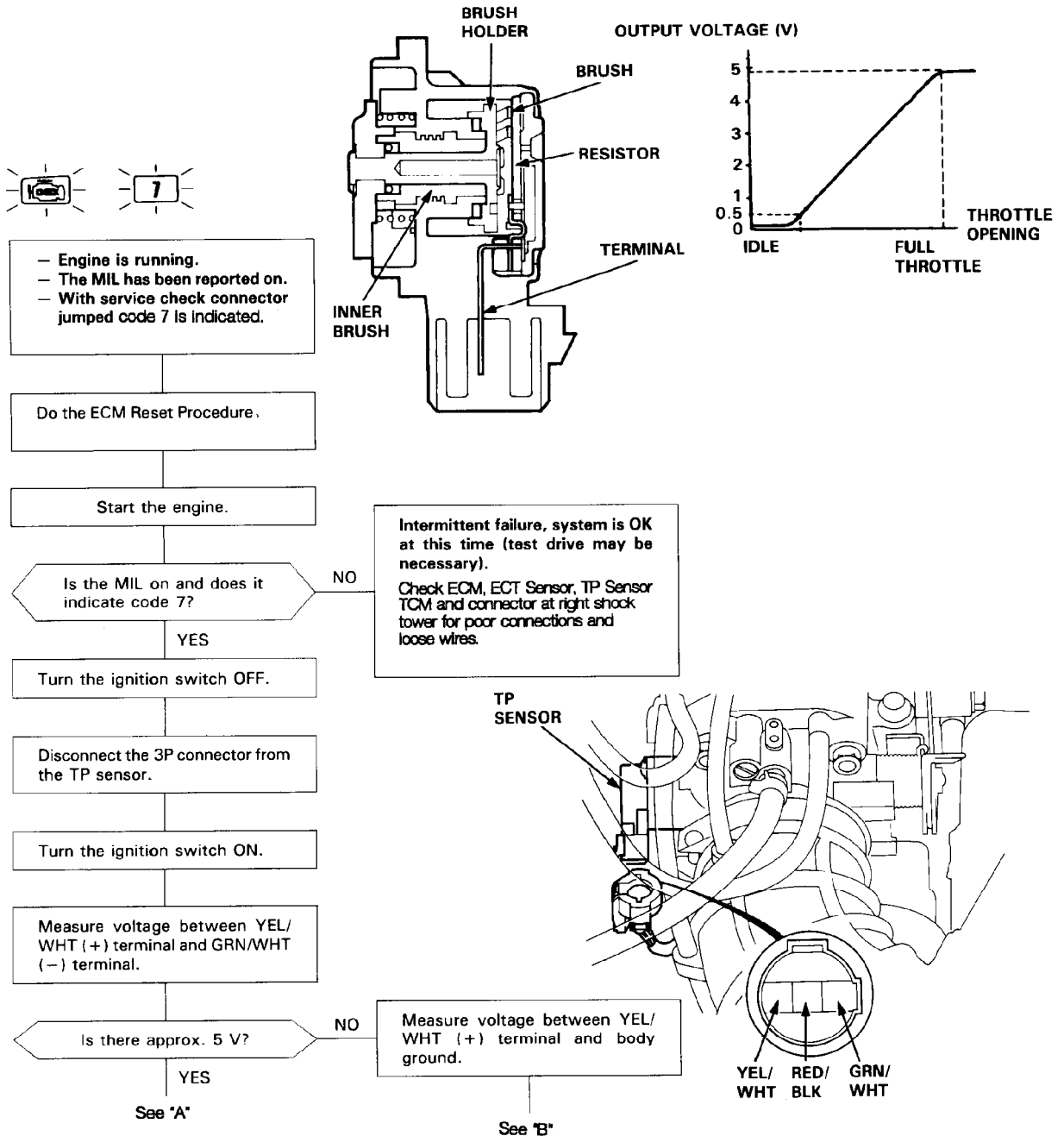
Fig. 17: Code 6 Flowchart, Engine Coolant Temperature Sensor (2 of 2)
 6 TESTS W/CODES Article Text (p. 20) 1993 Honda Prelude For Cadi Centre Nsk CA 95051 Copyright © 1998 Mitc
 Courtesy of American Honda Motor Co., Inc.

CODE 7 - THROTTLE POSITION (TP) SENSOR



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 7: A problem in the Throttle Position (TP) Sensor circuit.

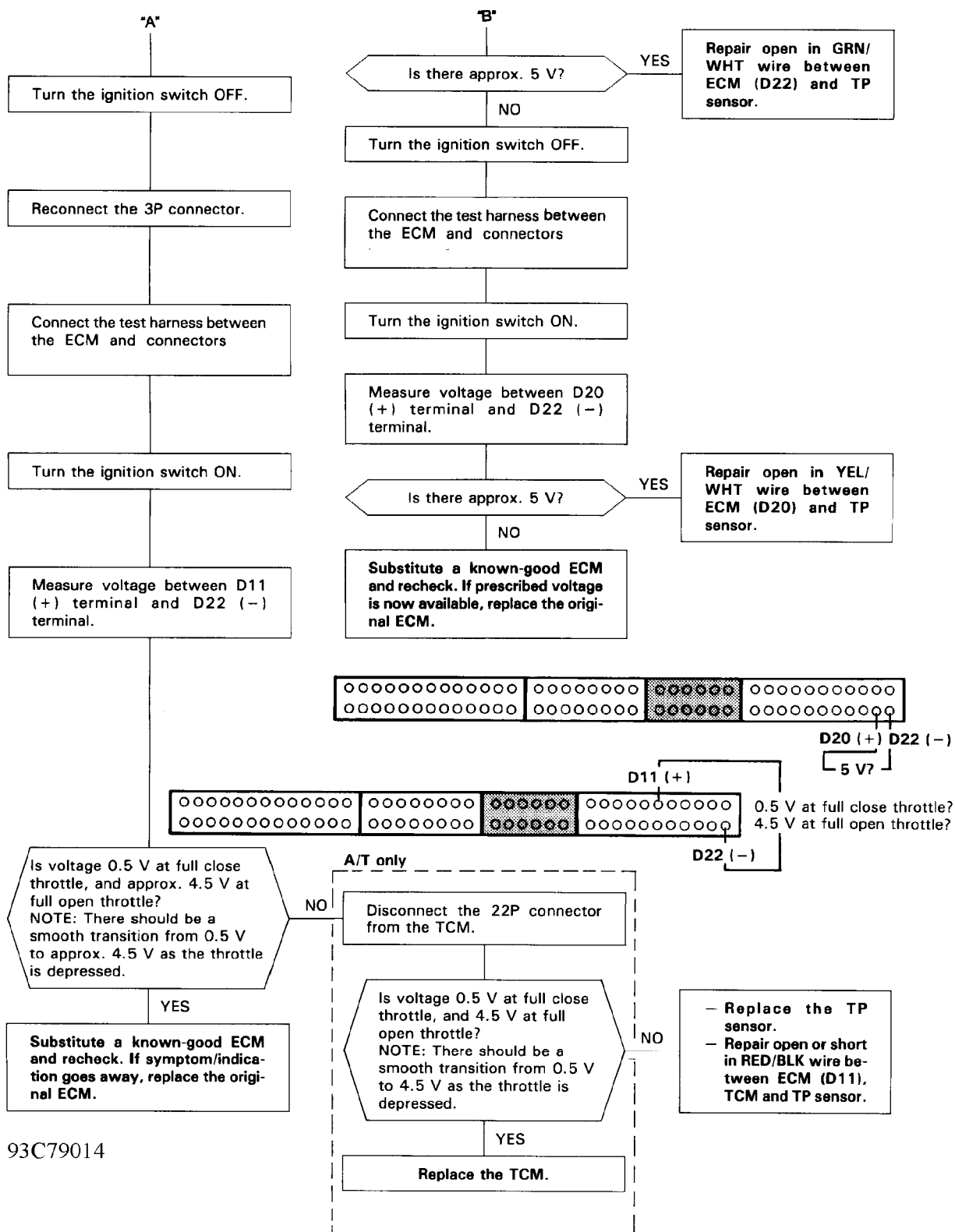
The TP Sensor is a potentiometer. It is connected to the throttle valve shaft. As the throttle position changes, the TP Sensor varies the voltage signal to the ECM.



93A79012

Fig. 18: Code 7 Flowchart, Throttle Position Sensor (1 of 2)

Courtesy of American Honda Motor Co., Inc.

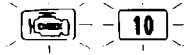


93C79014

Fig. 19: Code 7 Flowchart, Throttle Position Sensor (2 of 2)

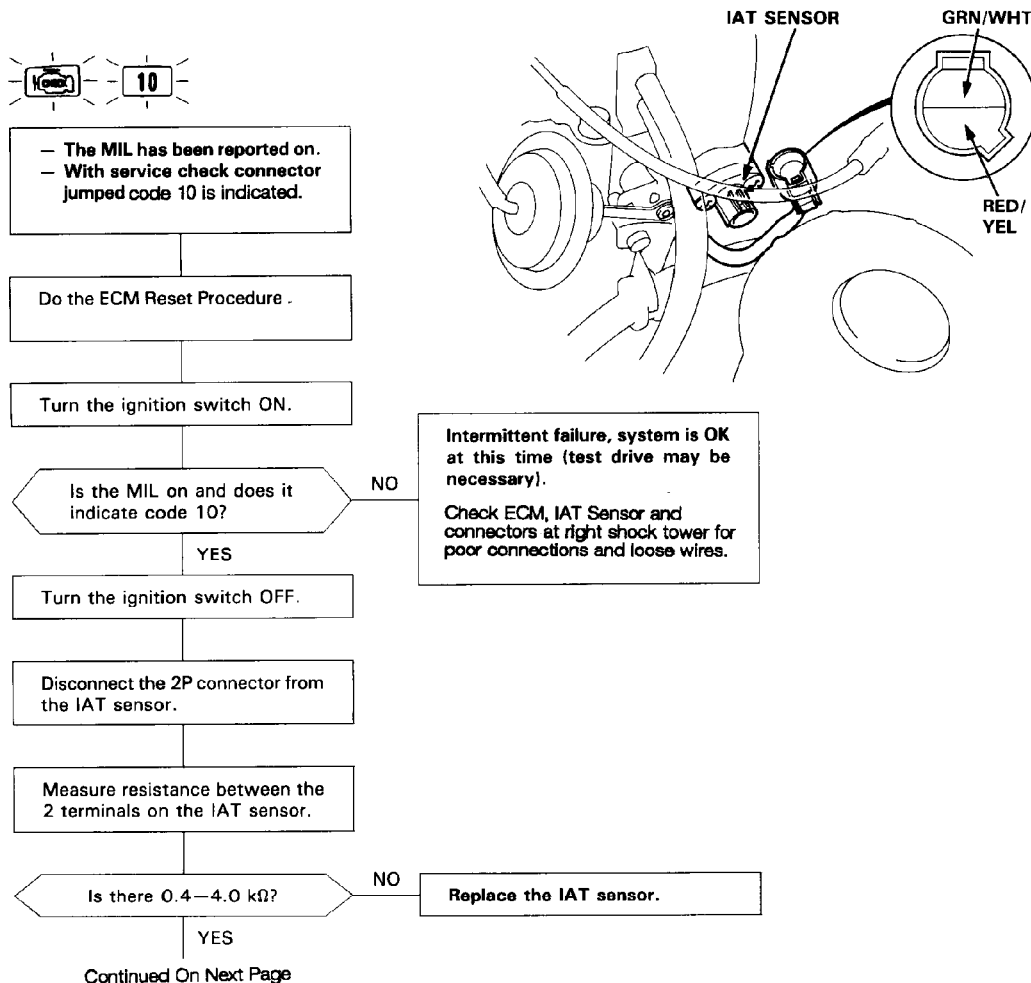
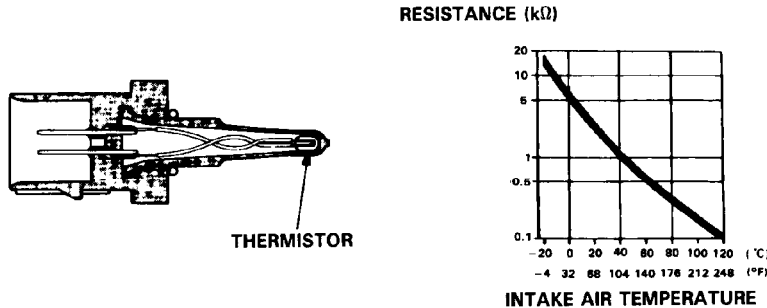
Courtesy of American Honda Motor Co., Inc.

CODE 10 - INTAKE AIR TEMPERATURE (IAT) SENSOR



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 10: A problem in the Intake Air Temperature (IAT) Sensor circuit.

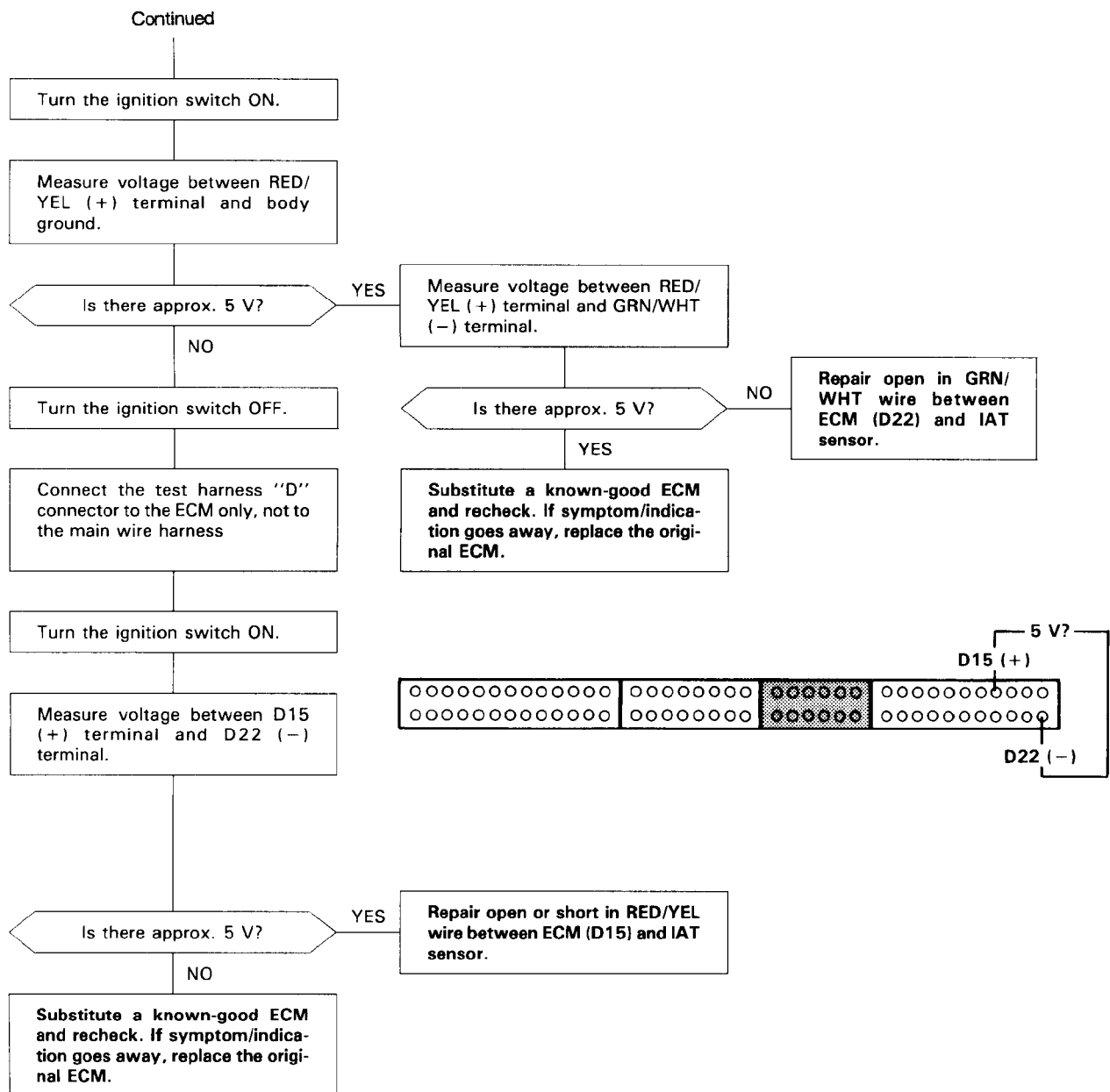
The IAT Sensor is a temperature dependant resistor (thermistor). The resistance of the thermistor decreases as the intake air temperature increases as shown below.



93H79019

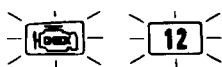
Fig. 20: Code 10 Flowchart, Intake Air Temperature Sensor (1 of 2)

Courtesy of American Honda Motor Co., Inc.



93B79021
Fig. 21: Code 10 Flowchart, Intake Air Temperature Sensor (2 of 2)
 Courtesy of American Honda Motor Co., Inc.

CODE 12 - EGR SYSTEM



— The MIL has been reported on.
— With service check connector jumped, code 12 is indicated.

Do the ECM Reset Procedure

Road test necessary: Warm up the engine to normal operating temperature (the radiator fan comes on).
Drive the car on the road for approx. 10 minutes. Keep the engine speed in the 1,700–2,500 rpm.

Is the MIL on and does it indicate code 12?

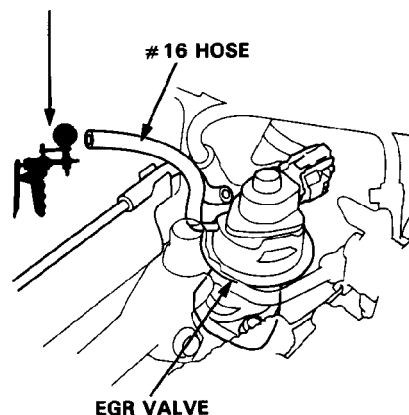
NO

Intermittent failure, system is OK at this time.

Check for loose wires or poor connections at ECM, EGR control solenoid valve, EGR valve lift sensor, control box and connectors at right shock tower and under left side of dash.

VACUUM PUMP/ GAUGE

16 HOSE



EGR VALVE

YES

With the engine at idle, disconnect the # 16 hose from the EGR valve and connect a vacuum pump/gauge to the hose.

Is there any vacuum?

YES

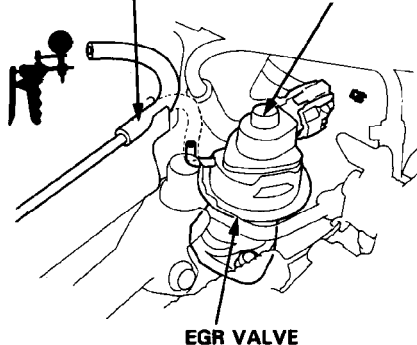
Disconnect 2P connector from the EGR control solenoid valve and check the # 16 hose for vacuum again.

NO

Move the vacuum pump/gauge to the EGR valve.

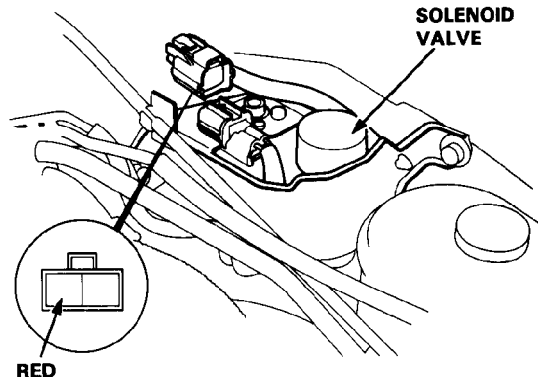
16 HOSE

EGR VALVE LIFT SENSOR



EGR VALVE

EGR CONTROL SOLENOID VALVE



RED

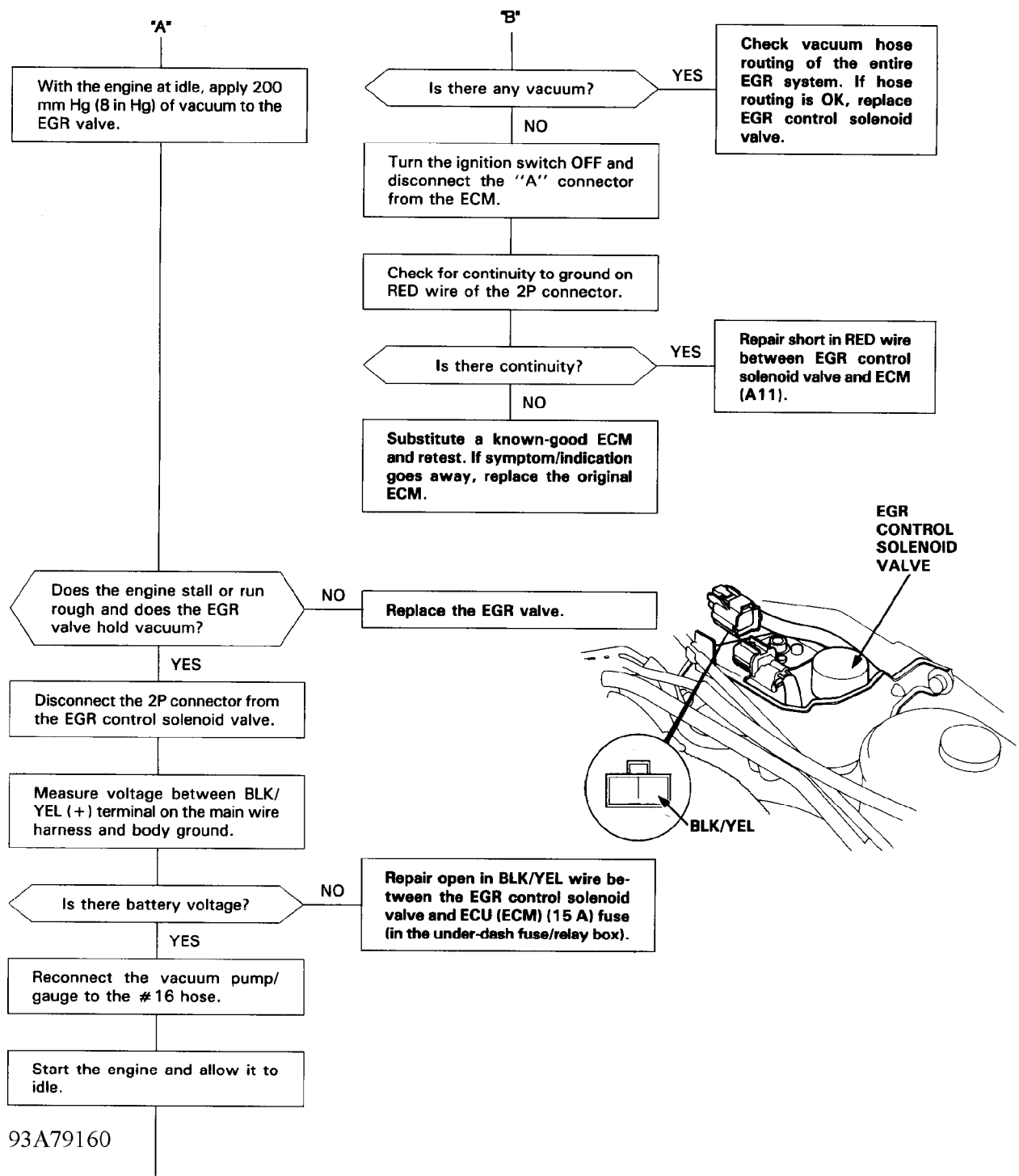
93H79159

G - TESTS W

See "A"

See "B"

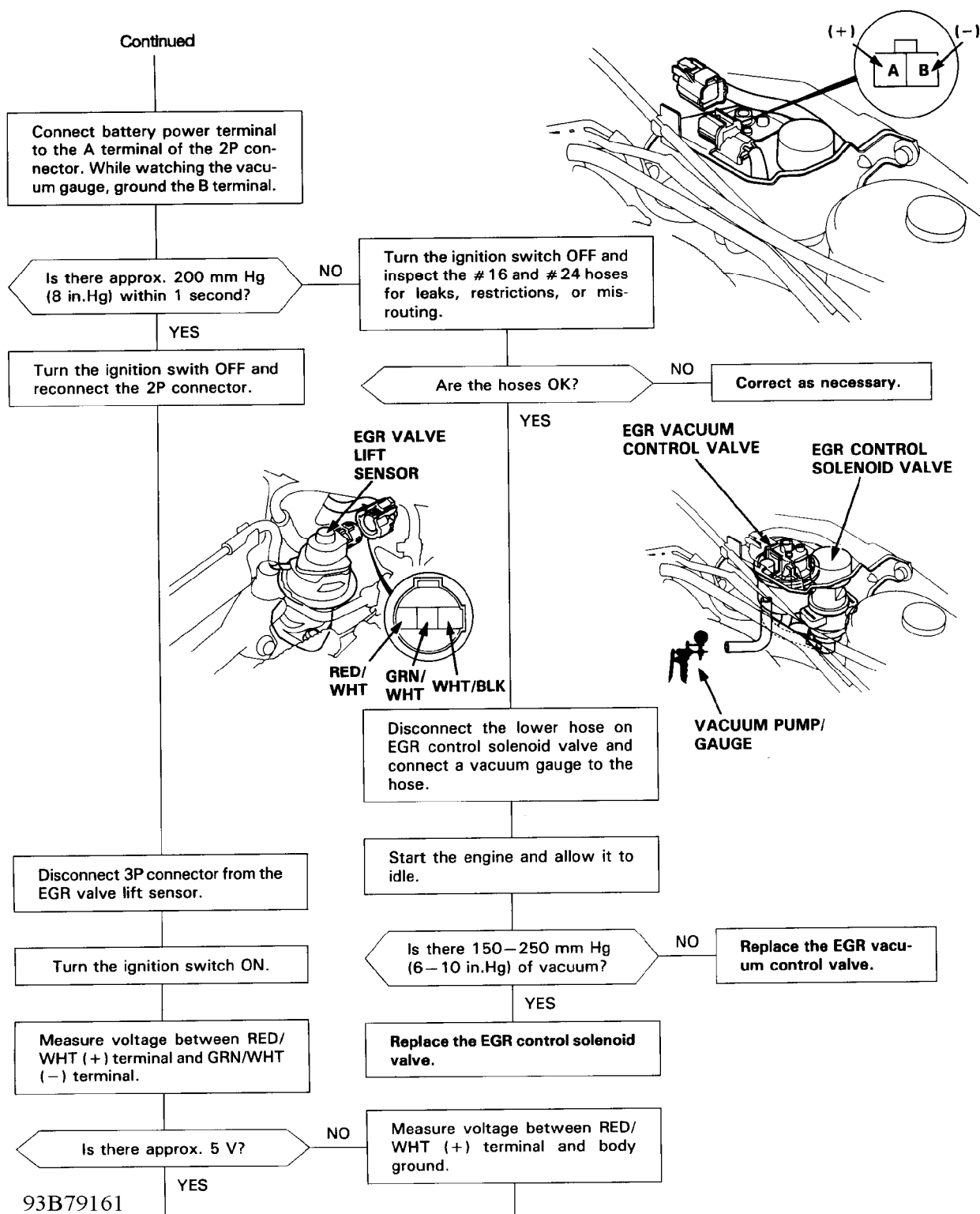
Fig. 22: Code 12 Flowchart, EGR System (1 of 5)
Courtesy of American Honda Motor Co., Inc.



Continued On Next Page.

Fig. 23: Code 12 Flowchart, EGR System (2 of 5)

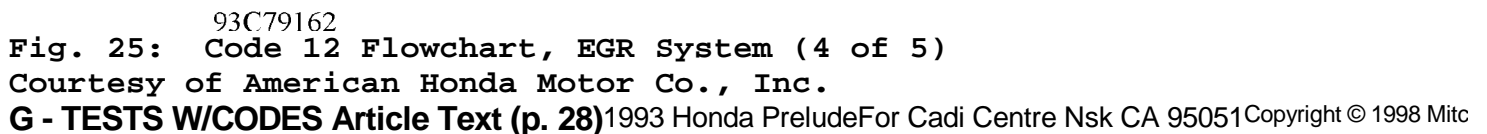
Courtesy of American Honda Motor Co., Inc.

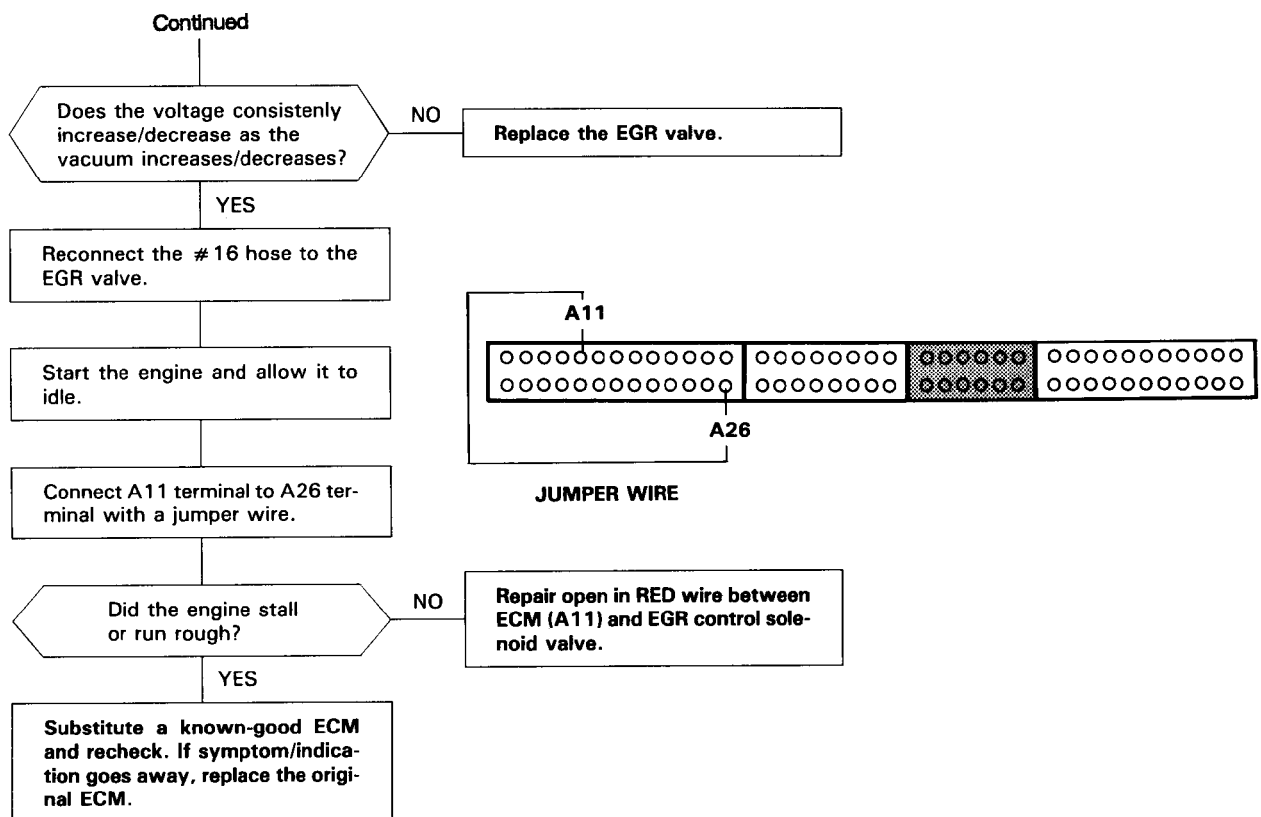


G - TESTS W

Fig. 24: Code 12 Flowchart, EGR System (3 of 5)

Courtesy of American Honda Motor Co., Inc.



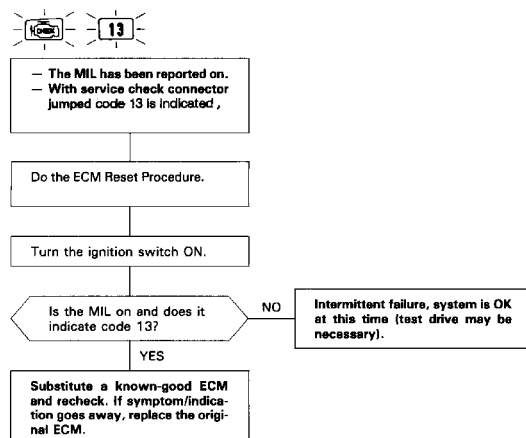


93D79163
Fig. 26: Code 12 Flowchart, EGR System (5 of 5)
 Courtesy of American Honda Motor Co., Inc.

CODE 13 - BAROMETRIC PRESSURE (BARO) SENSOR

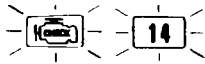
13 The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 13: A problem in the Barometric Pressure (BARO) Sensor.

The BARO Sensor is built into the ECM.



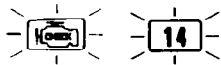
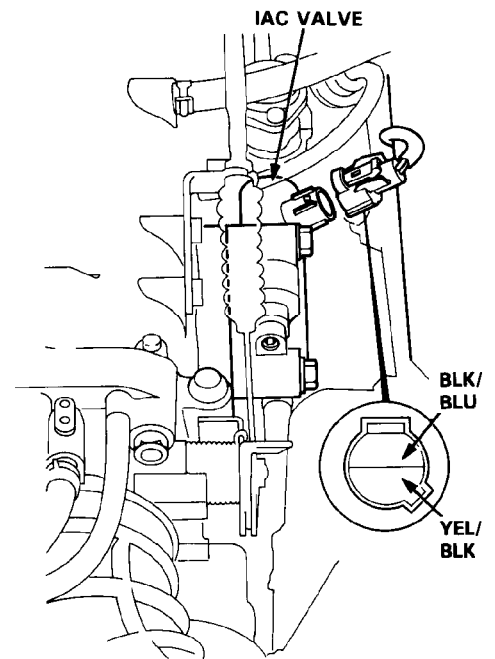
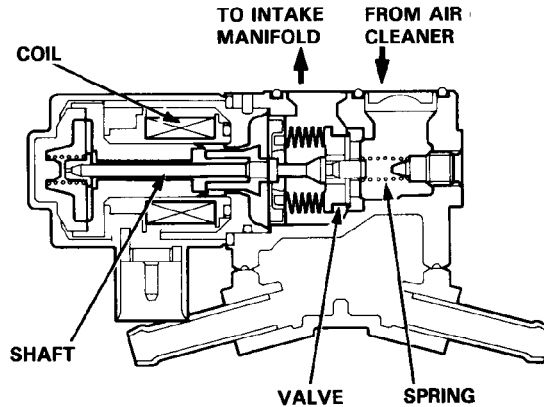
93C79022
Fig. 27: Code 13 Flowchart, Barometric Pressure Sensor
 Courtesy of American Honda Motor Co., Inc.

CODE 14 - IDLE AIR CONTROL (IAC) VALVE



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 14: A problem in the Idle Air Control (IAC) Valve circuit.

The IAC Valve changes the amount of air bypassing the throttle body in response to a current signal from the ECM in order to maintain the proper idle speed.



- The MIL has been reported on.
- With service check connector jumped, code 14 is indicated.

Do the ECM Reset Procedure,

Start the engine.

Is the MIL on and does it indicate code 14?

YES

Remove the 2P connector from the IAC valve.

NO

With the engine running and the accelerator pedal released, disconnect the 2P connector from the IAC valve.

Is there a reduction in engine rpm?

NO

Substitute a known-good IAC valve and retest.

YES

Intermittent failure, system is OK at this time (test driving may be necessary).

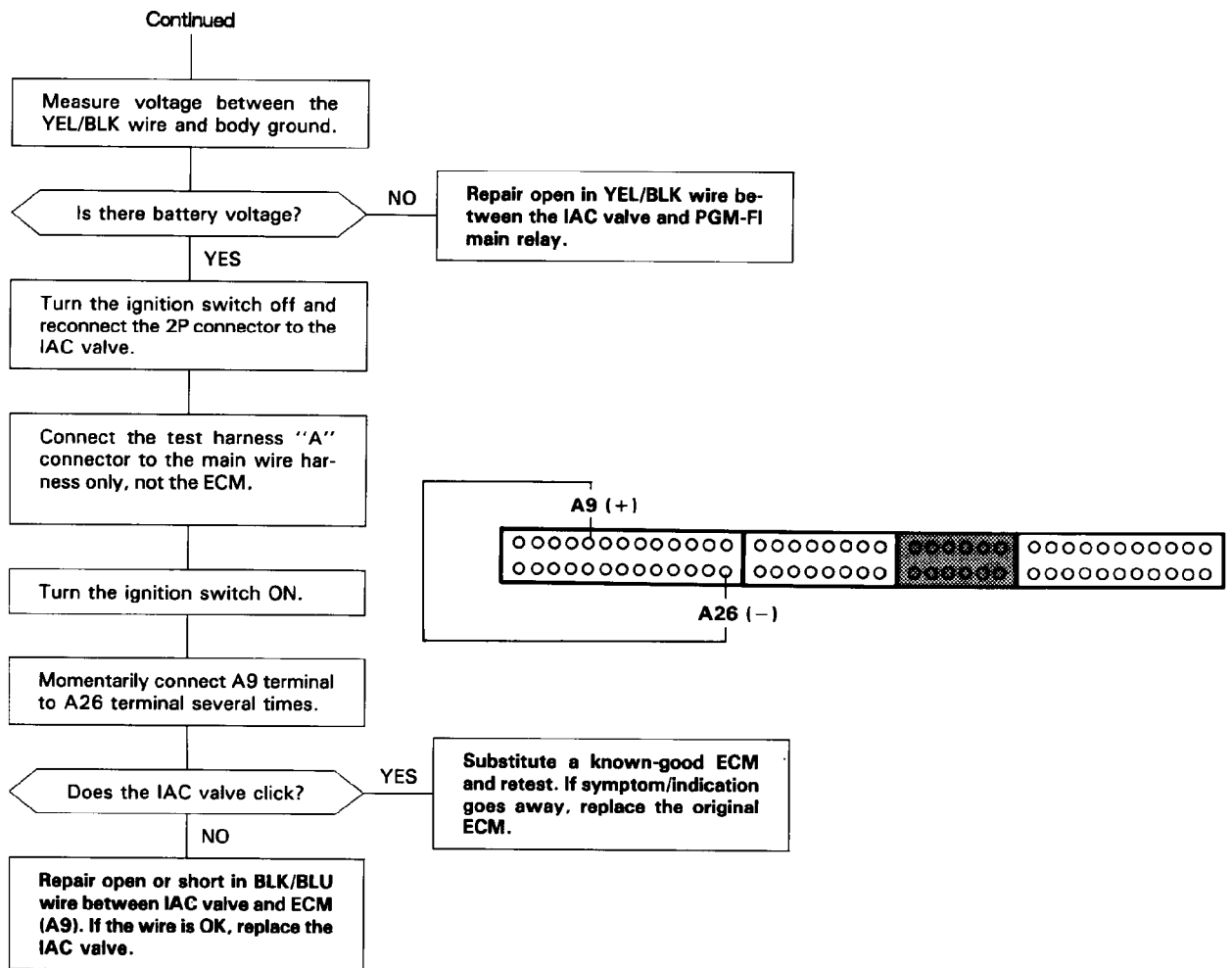
Check for poor connections or loose wires at connector at right shock tower, IAC valve and ECM.

93D79023

Continued On Next Page.

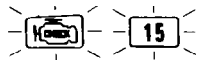
Fig. 28: Code 14 Flowchart, Idle Air Control Valve (1 of 2)

Courtesy of American Honda Motor Co., Inc.

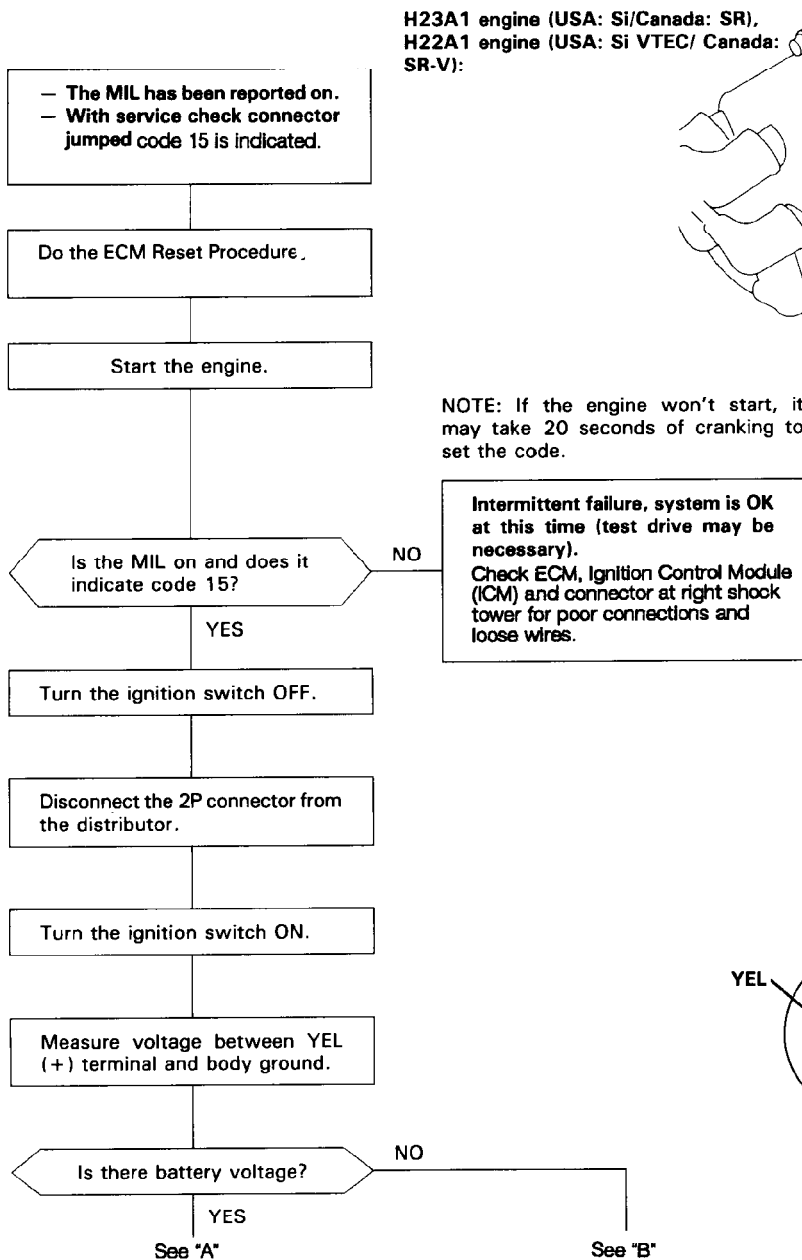


93F79024
Fig. 29: Code 14 Flowchart, Idle Air Control Valve (2 of 2)
 Courtesy of American Honda Motor Co., Inc.

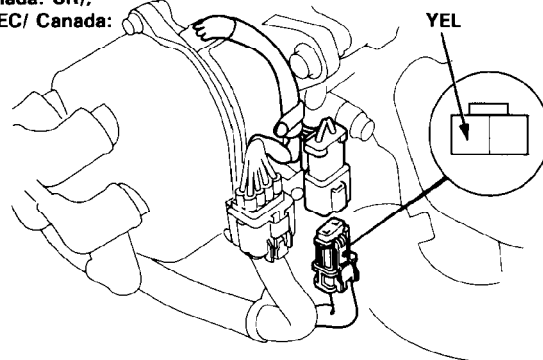
CODE 15 - IGNITION OUTPUT SIGNAL



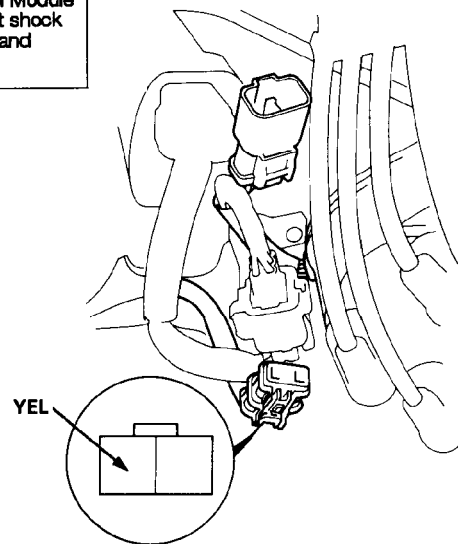
The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 15: A problem in the Ignition Output Signal circuit.



H23A1 engine (USA: Si/Canada: SR),
 H22A1 engine (USA: Si VTEC/ Canada: SR-V):



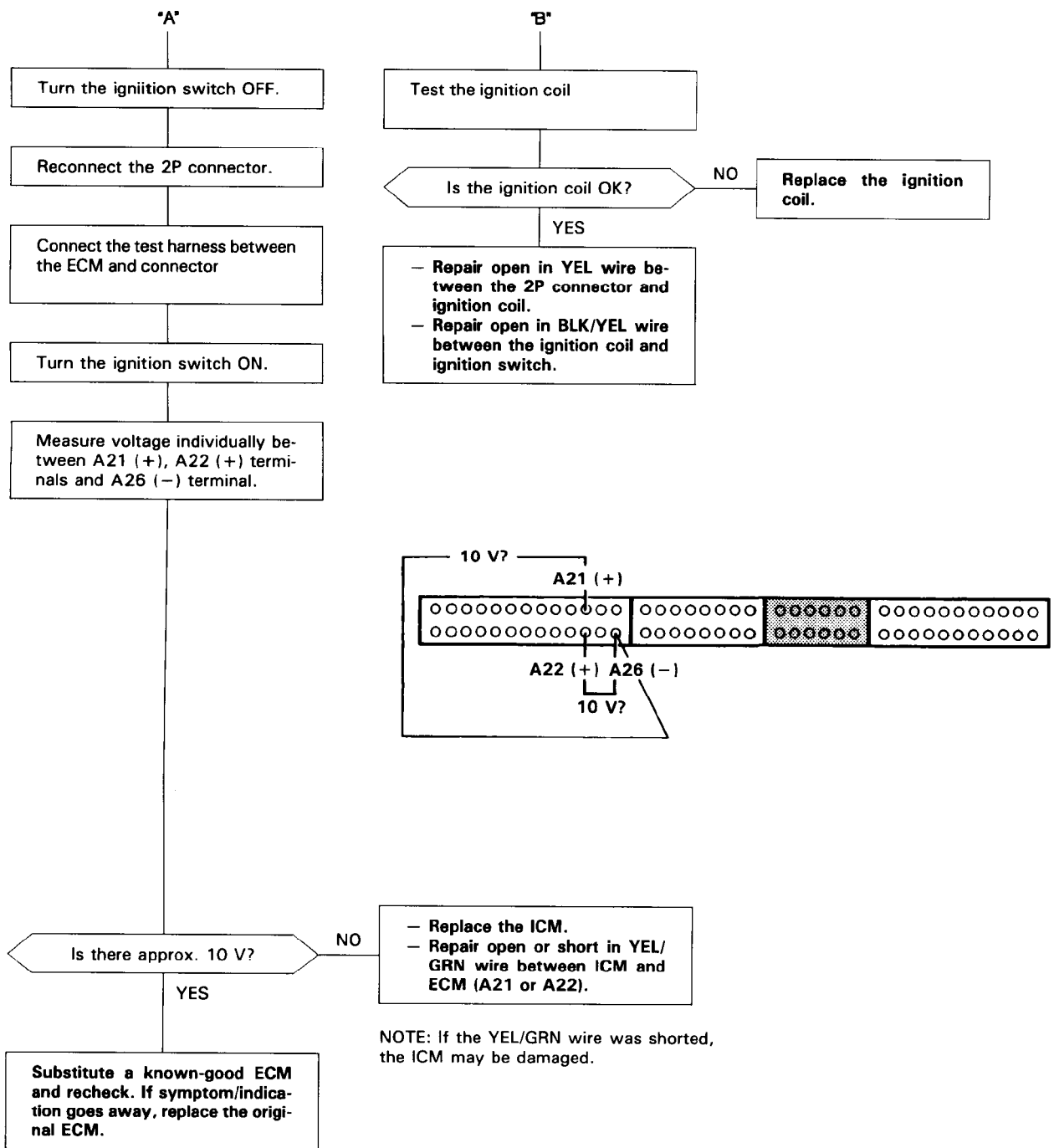
F22A1 engine (S):



G - TESTS W

93F79025

Fig. 30: Code 15 Flowchart, Ignition Output Signal (1 of 2)
 Courtesy of American Honda Motor Co., Inc.



93I79028

Fig. 31: Code 15 Flowchart, Ignition Output Signal (2 of 2)
 Courtesy of American Honda Motor Co., Inc.

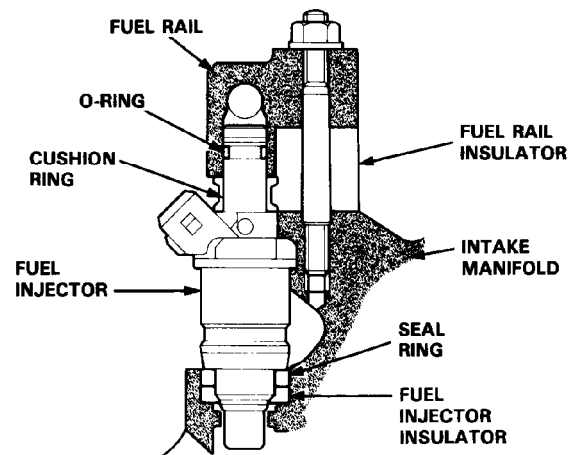
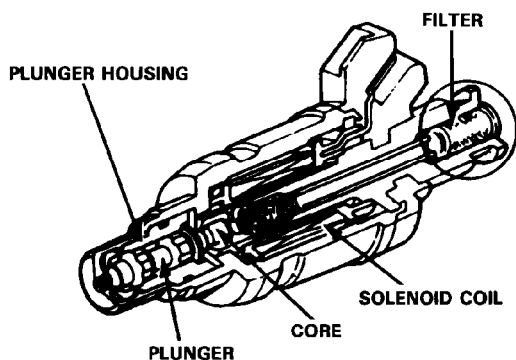
Troubleshooting Flowchart



16

The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 16: A problem in the Fuel Injector circuit.

The Fuel Injectors are a solenoid-actuated constant-stroke pintle type consisting of a solenoid, plunger needle valve and housing. When current is applied to the solenoid coil, the valve lifts up and pressurized fuel is injected. Because the needle valve lift and the fuel pressure are constant, the injection quantity is determined by the length of time that the valve is open (i.e., the duration the current is supplied to the solenoid coil). The Fuel Injector is sealed by an O-ring and seal ring at the top and bottom. These seals also reduce operating noise.



16

- The MIL has been reported on.
- With service check connector jumped, code 16 is indicated.

Do the ECM Reset Procedure.

Start the engine and allow it to idle.

Is the MIL on and does it indicate code 16?

NO

93D79031

YES

NOTE: If engine will not start, it may take 10 seconds of cranking to set the code.

Intermittent failure, system is OK at this time (test drive may be necessary).

Check for poor connections or loose wires at connector at right shock tower, connector at each fuel injector, injector resistor and at ECM.

G - TESTS W

Continued On Next Page.

Fig. 32: Code 16 Flowchart, Fuel Injectors (1 of 3)
Courtesy of American Honda Motor Co., Inc.

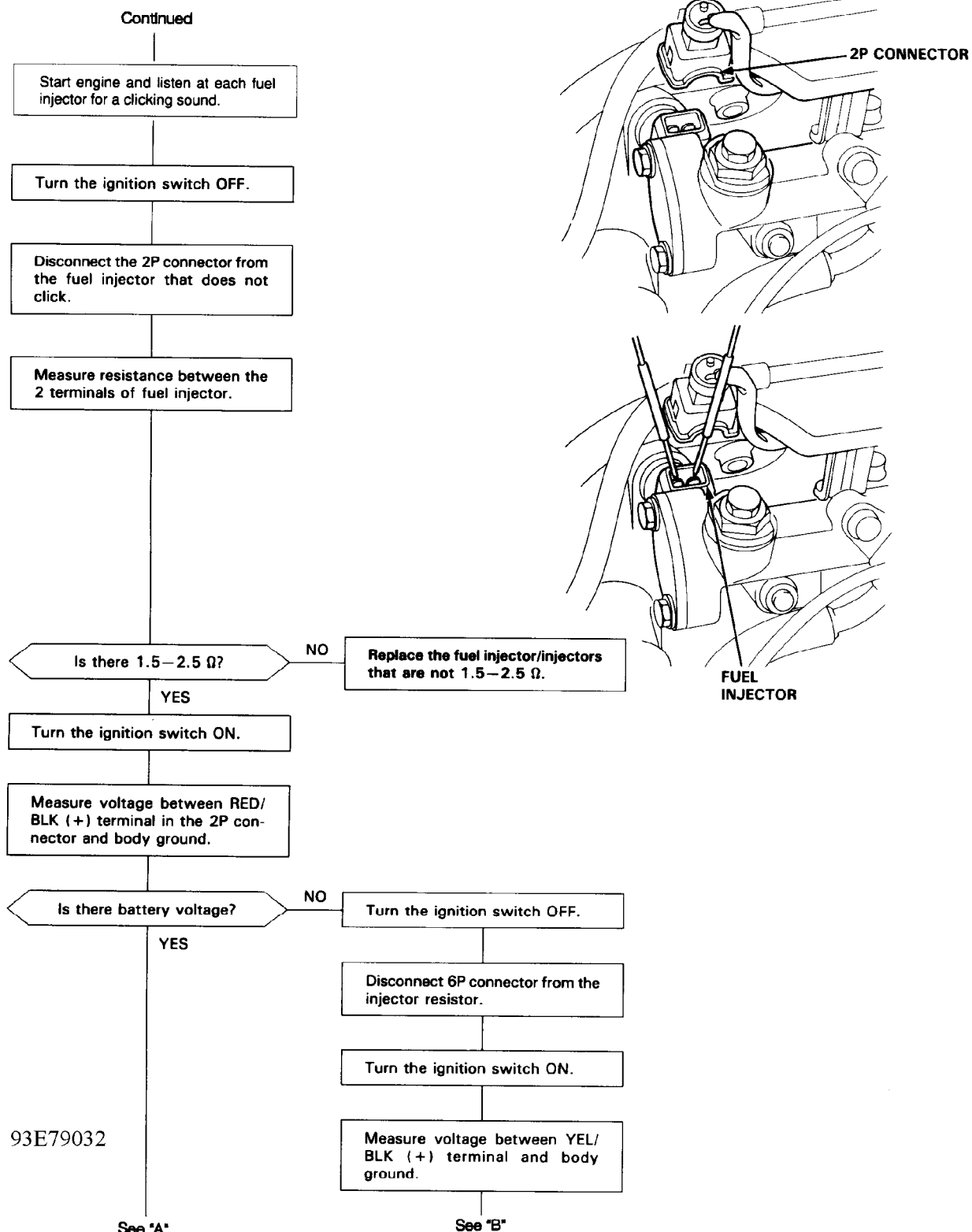
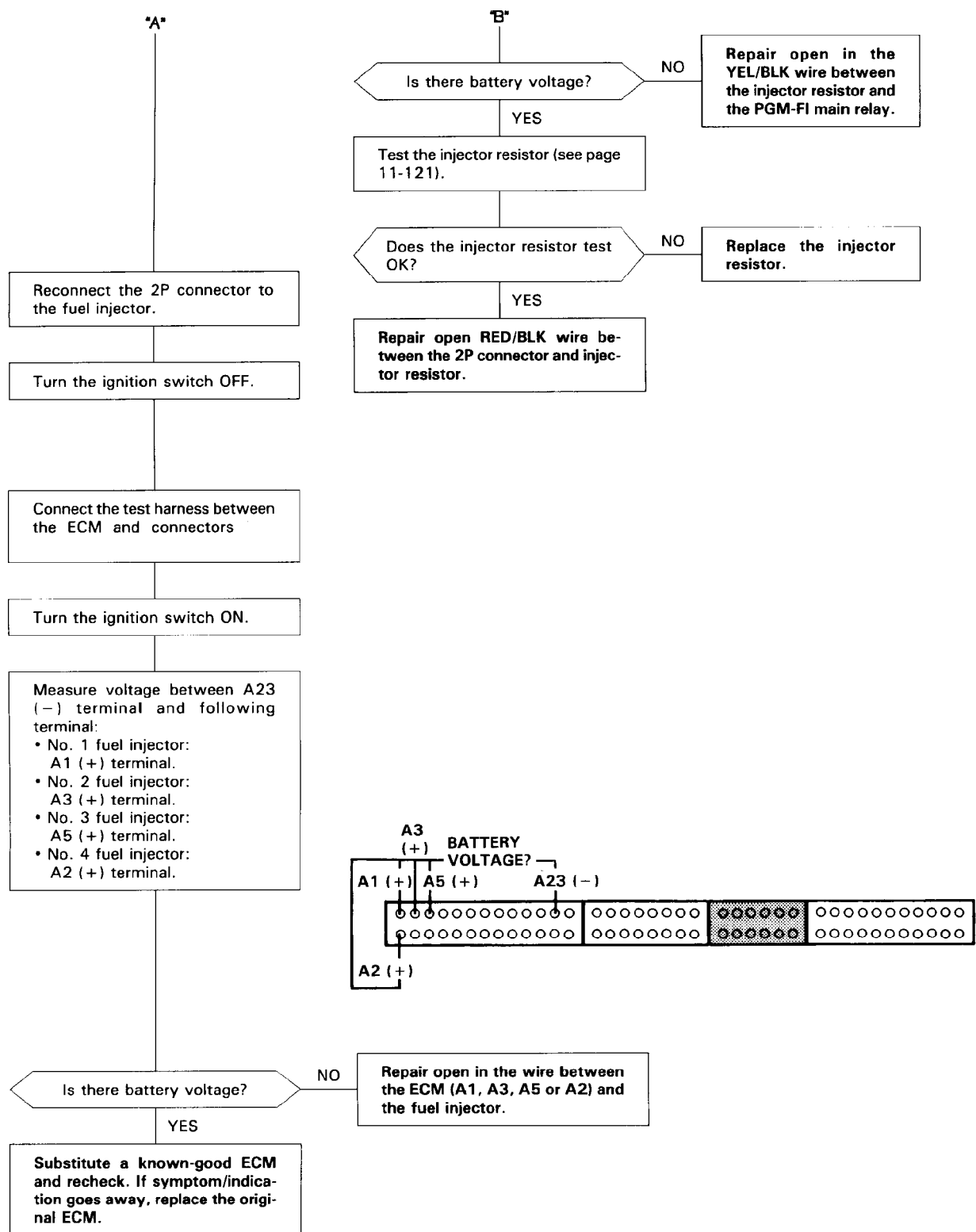


Fig. 33: Code 16 Flowchart, Fuel Injectors (2 of 3)

Courtesy of American Honda Motor Co., Inc.

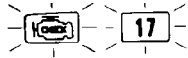


93F79033

Fig. 34: Code 16 Flowchart, Fuel Injectors (3 of 3)

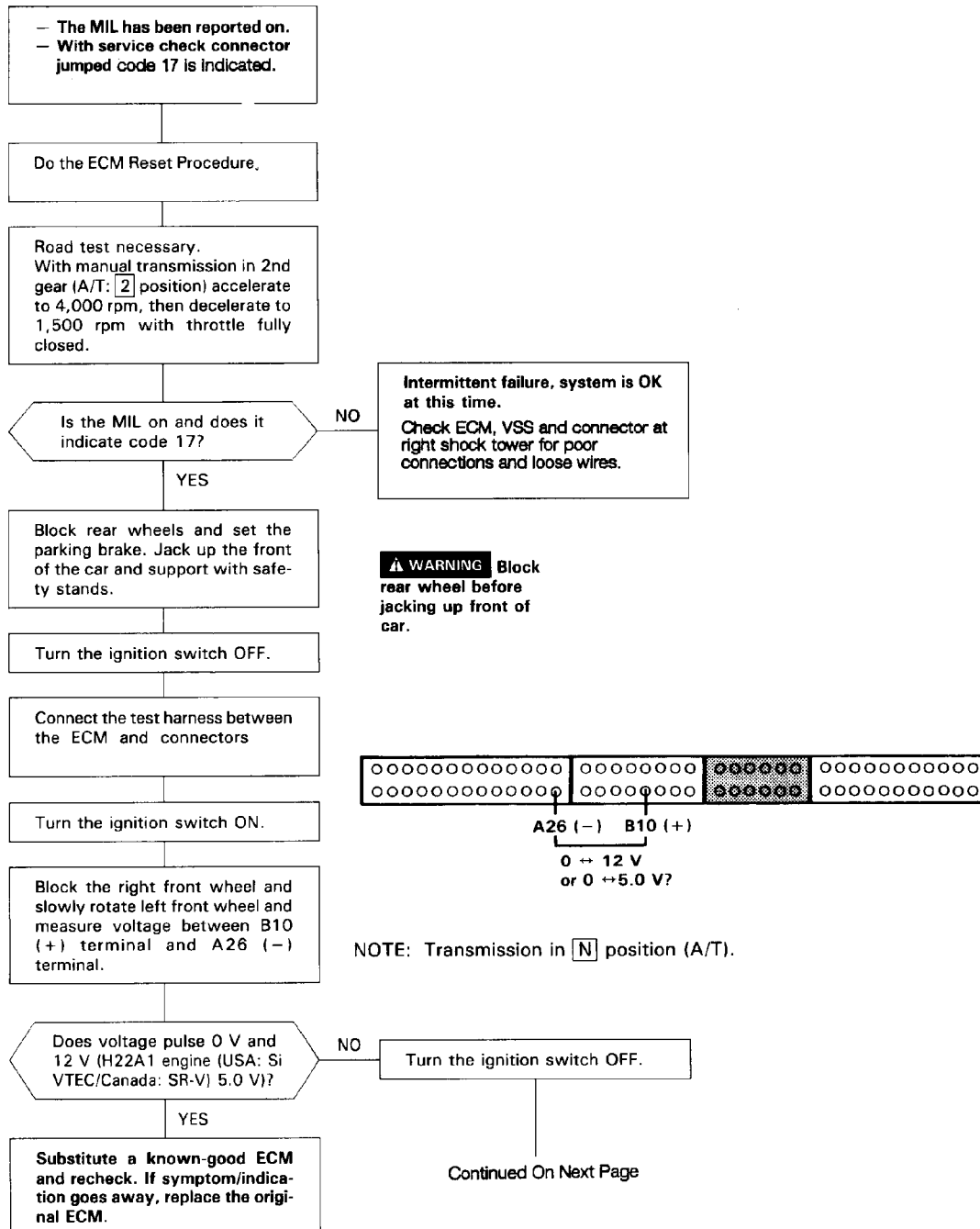
Courtesy of American Honda Motor Co., Inc.

CODE 17 - VEHICLE SPEED SENSOR (VSS)



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 17: A problem in the Vehicle Speed Sensor (VSS) circuit.

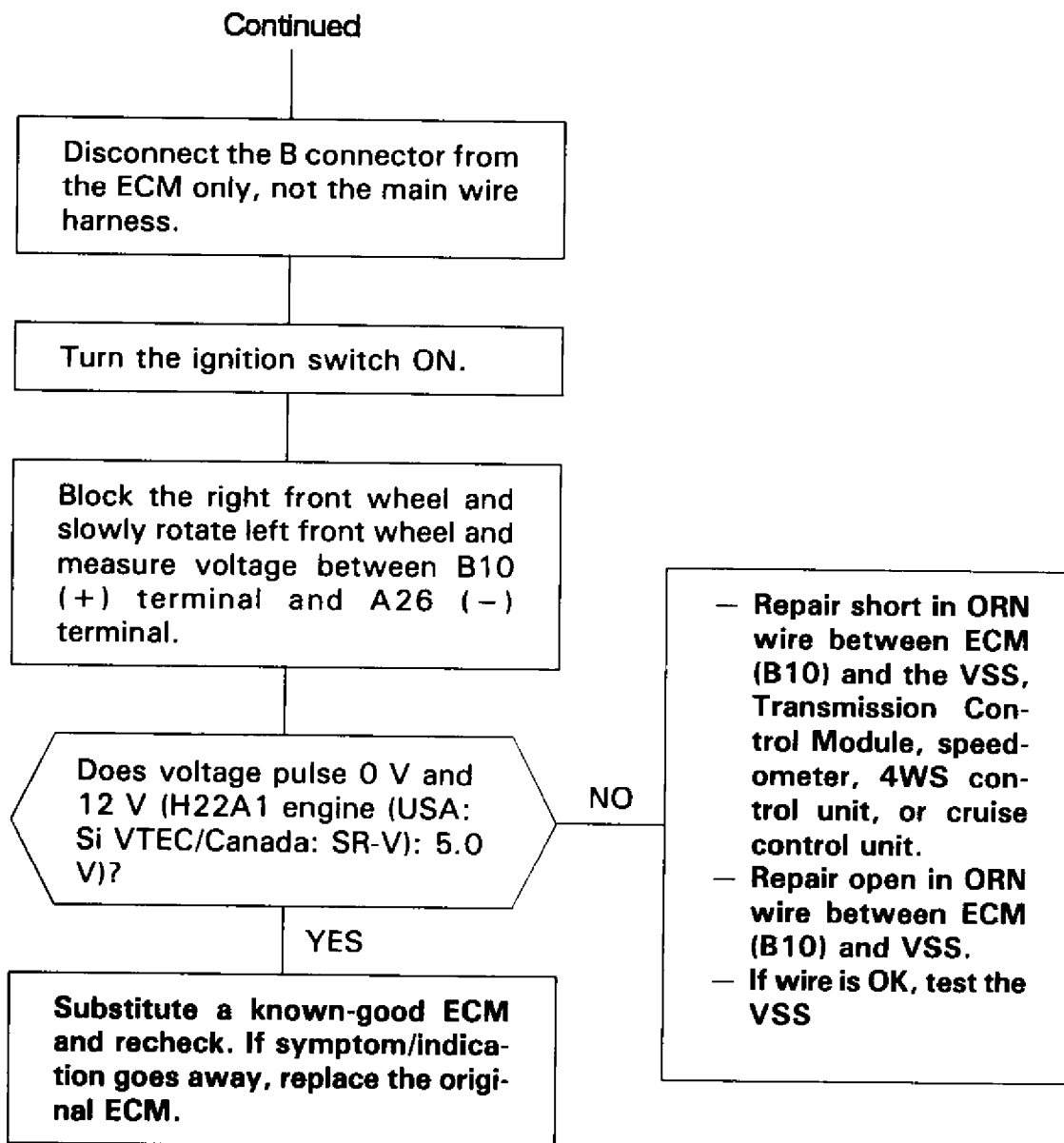
The VSS generates a pulsing signal when the front wheels turn.



93G79034

Fig. 35: Code 17 Flowchart, Vehicle Speed Sensor (1 of 2)

Courtesy of American Honda Motor Co., Inc.



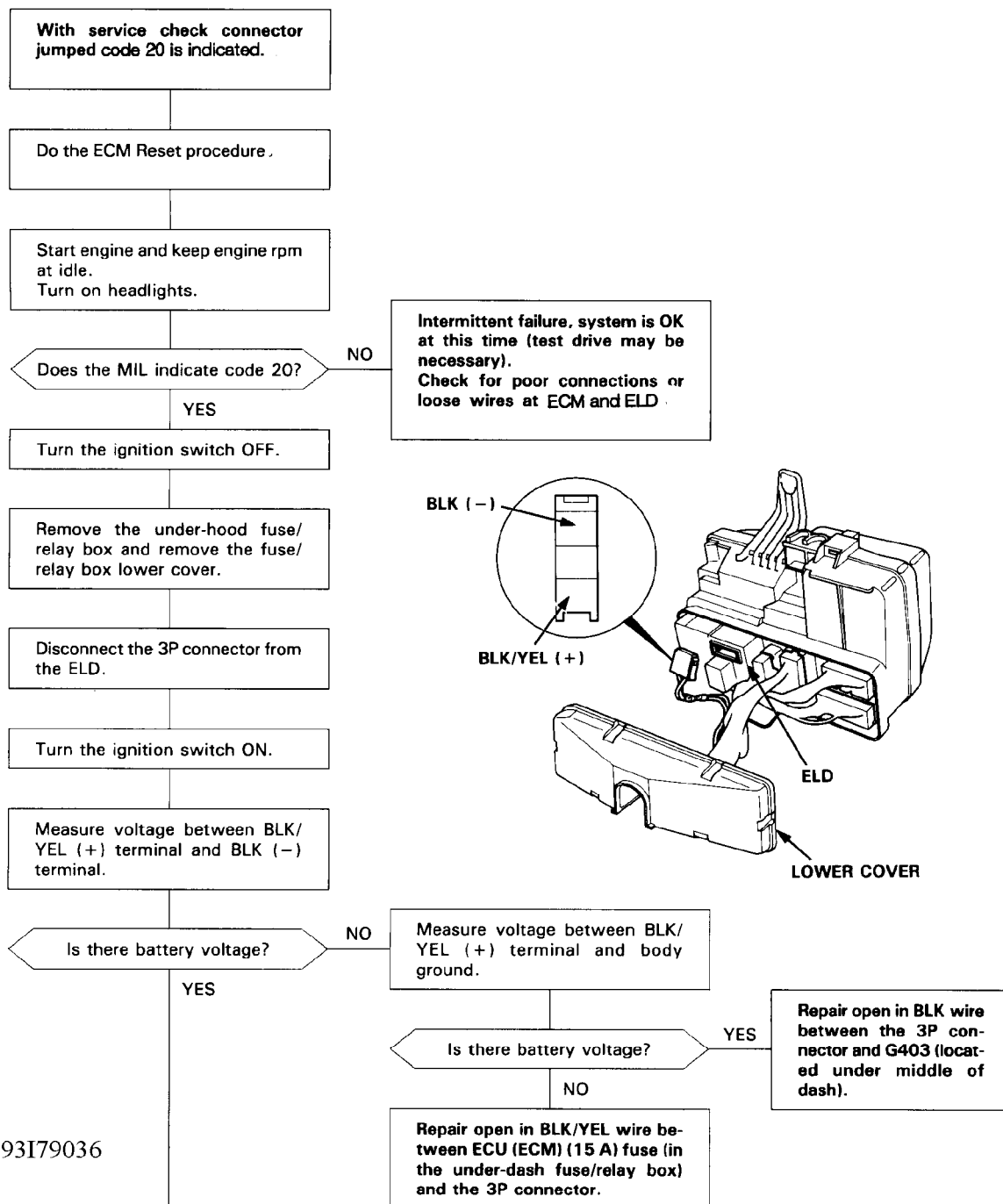
93H79035

Fig. 36: Code 17 Flowchart, Vehicle Speed Sensor (2 of 2)
Courtesy of American Honda Motor Co., Inc.

CODE 20 - ELECTRICAL LOAD DETECTOR (ELD)



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 20: A problem in the Electrical Load Detector (ELD) circuit.

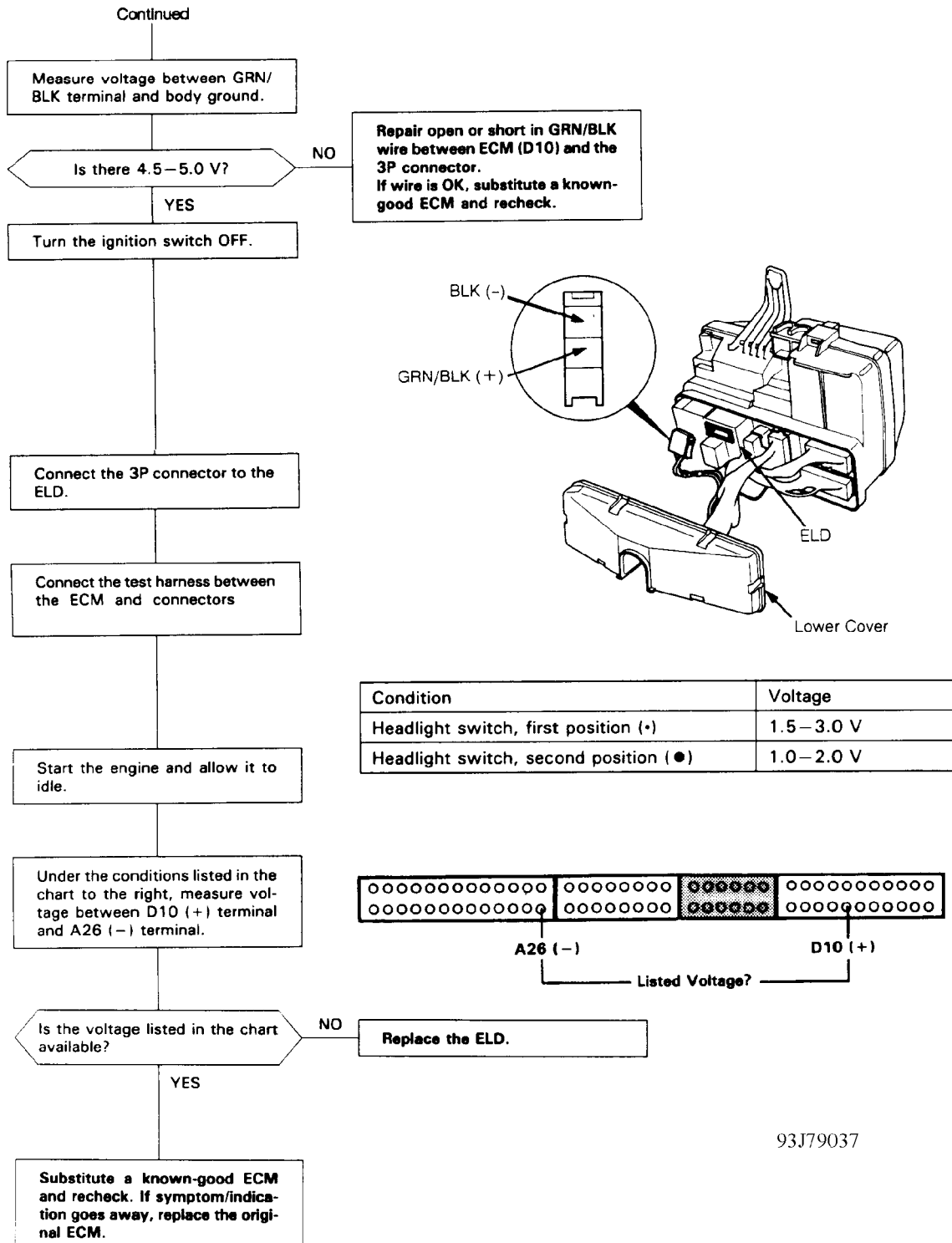


G - TESTS W 93I79036

Continued On Next Page

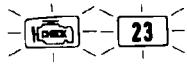
Fig. 37: Code 20 Flowchart, Electrical Load Detector (1 of 2)
Courtesy of American Honda Motor Co., Inc.

CODE 20 (2 OF 2) **ELECTRICAL LOAD DETECTOR (ELD)** **PRELUDE**

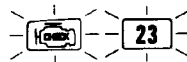


93J79037

CODE 23 - KNOCK SENSOR (KS)



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 23: A problem in the Knock Sensor (KS) circuit.



- The MIL has been reported on.
- With service check connector jumped code 23 is indicated.

Do the ECM Reset Procedure.

Warm up the engine to normal operating temperature (the radiator fan comes on).

Hold engine at 3,000—4,000 rpm for 10 seconds with manual transmission in neutral (A/T: **N** or **P** position).

Is the MIL on and does it indicate code 23?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).
Check ECM, Knock Sensor (KS) and connectors at right shock tower for poor connections and loose wires.

YES

Turn the ignition switch OFF.

Connect the test harness to the engine wire harness only, not to the ECM

Disconnect the 2P connector from the KS.

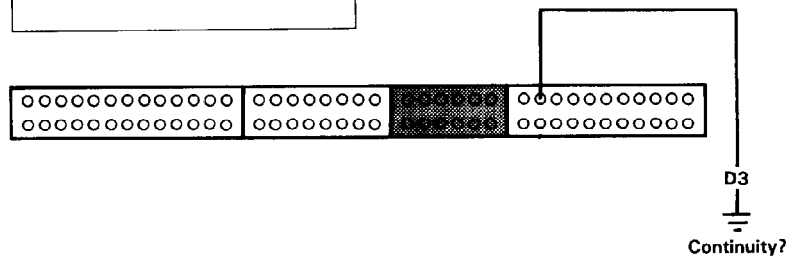
Check for continuity between D3 terminal and body ground.

Is there continuity?

YES

Repair short in RED/BLU wire between ECM (D3) and the KS.

NO

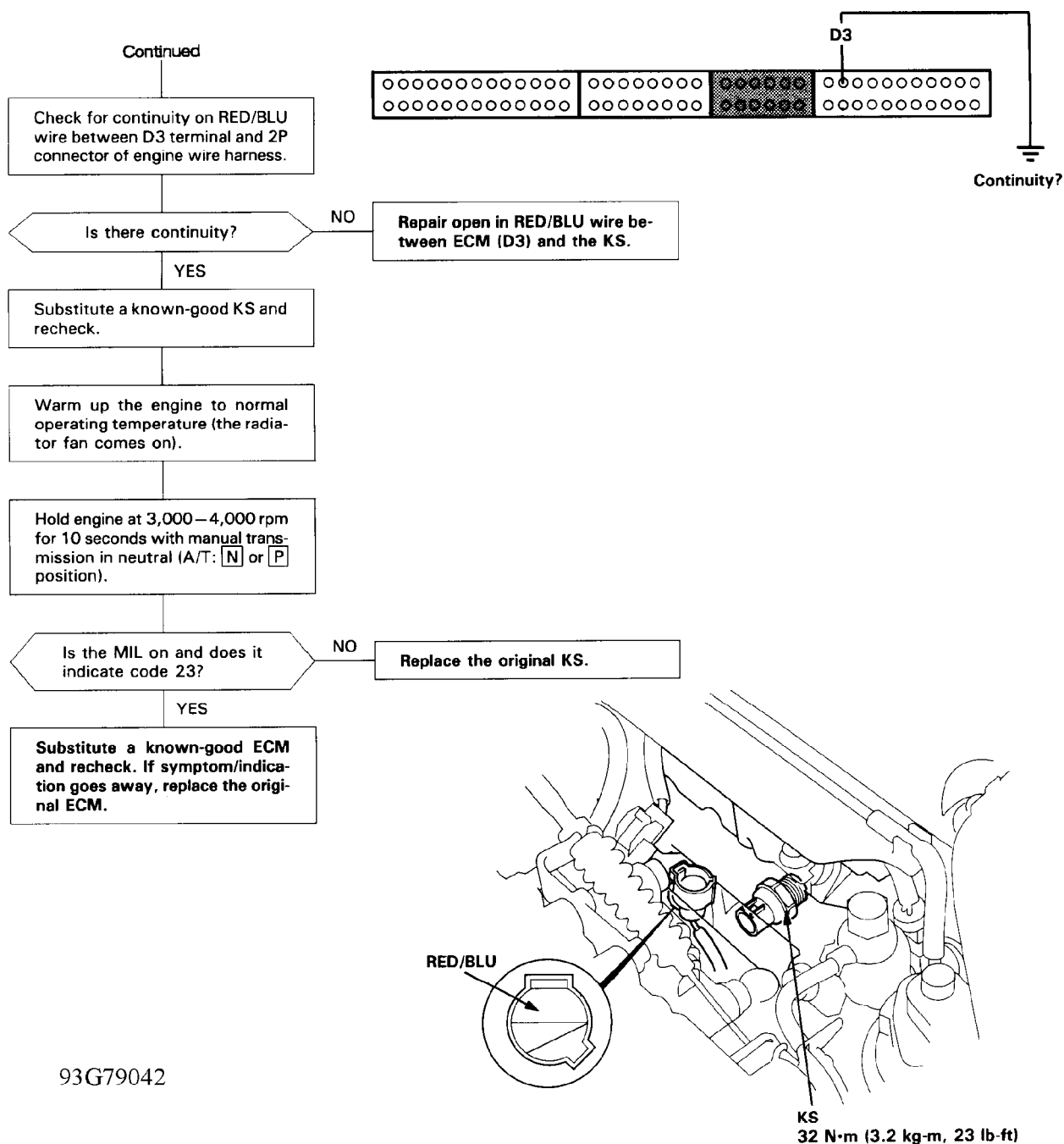


Continued On Next Page

93E79040

Fig. 39: Code 23 Flowchart, Knock Sensor (1 of 2)

Courtesy of American Honda Motor Co., Inc.

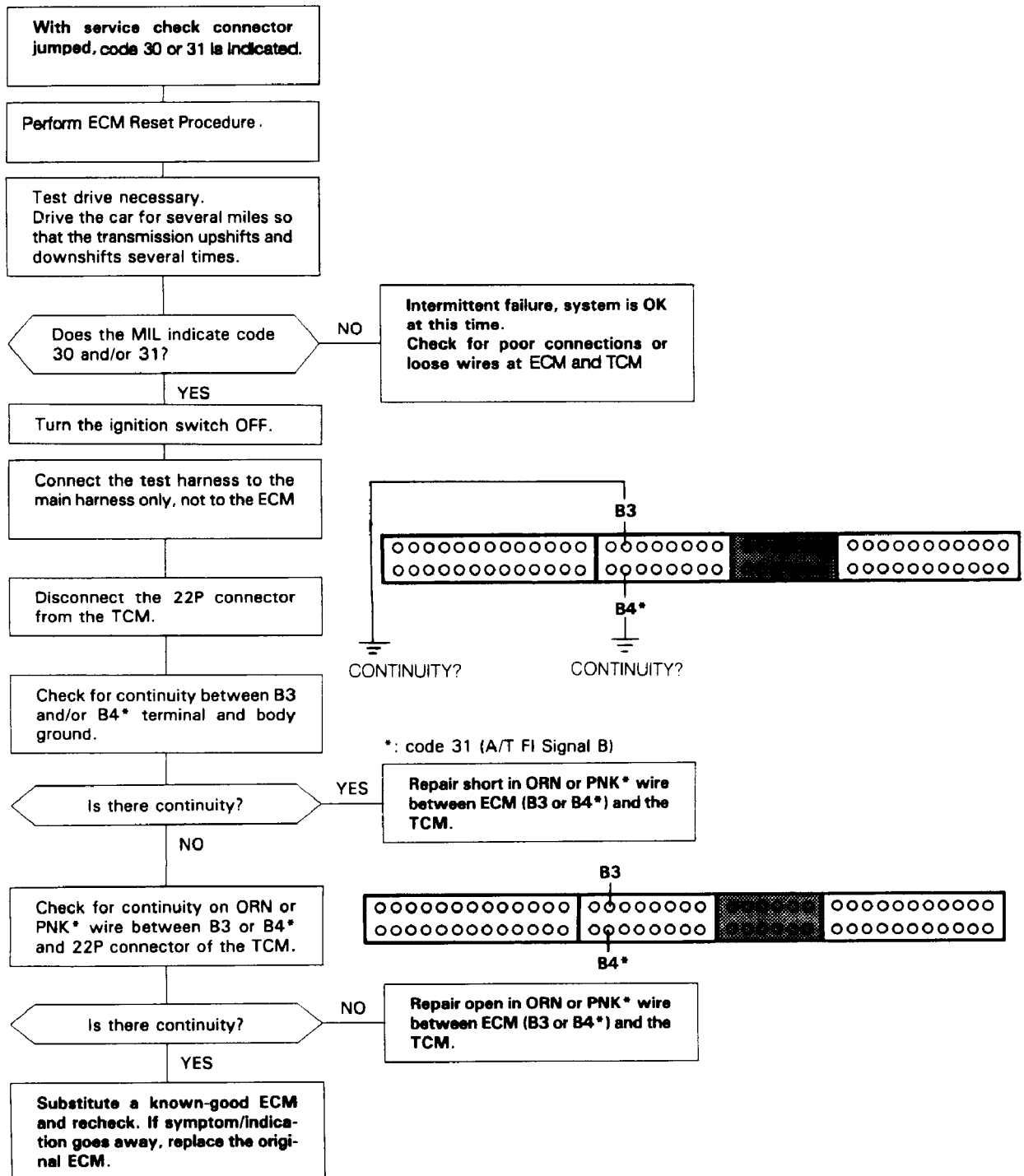


93G79042

Fig. 40: Code 23 Flowchart, Knock Sensor (2 of 2)
 Courtesy of American Honda Motor Co., Inc.

CODE 30 OR 31 - A/T FI SIGNAL "A" (30) OR "B" (31)

CODE 30 OR 31 **A/T FI SIGNAL "A" (30) OR "B" (31)** **PRELUDE**

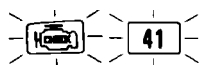


G - TESTS W

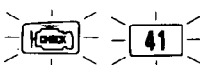
93H79043

Fig. 41: Code 30 or 31 Flowchart, A/T FI Signal "A" (30) or "B" (31)
 Courtesy of American Honda Motor Co., Inc.

CODE 41 - HEATED OXYGEN SENSOR (HO2S) HEATER



The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 41: A problem in the Heated Oxygen Sensor (HO2S) Heater circuit.



— Engine is running.
— The MIL has been reported on.
With service check connector jumped code 41 is indicated.

Do the ECM Reset Procedure,

Start the engine.

Is the MIL on and does it indicate code 41?

NO

Intermittent failure, system is OK at this time (test drive may be necessary). Check for poor connections or loose wires at ECM, HO2S and connectors at right shock tower.

YES

Turn the ignition switch OFF.

Disconnect the 4P connector from the HO2S.

Measure resistance between terminals C and D on the HO2S.

Is there 10–40 Ω ?

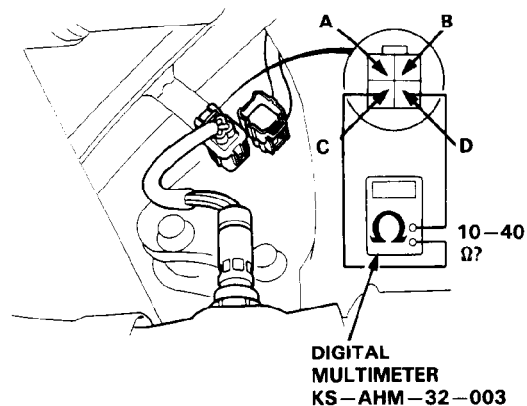
NO

Replace the HO2S.

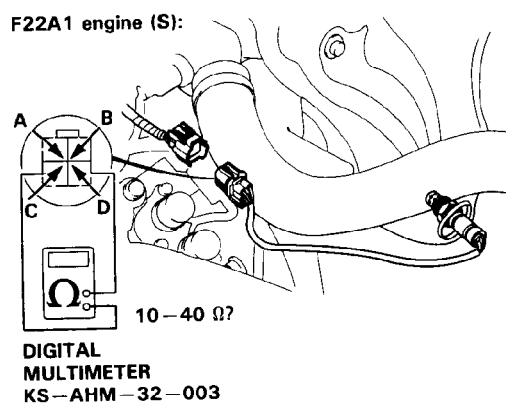
YES

Continued On Next Page

H23A1 engine (USA: Si/Canada: SR)
H22A1 engine (USA: Si VTEC/Canada: SR-V):



F22A1 engine (S):



93J79045

Fig. 42: Code 41 Flowchart, Heated Oxygen Sensor Heater (1 of 3)
Courtesy of American Honda Motor Co., Inc.

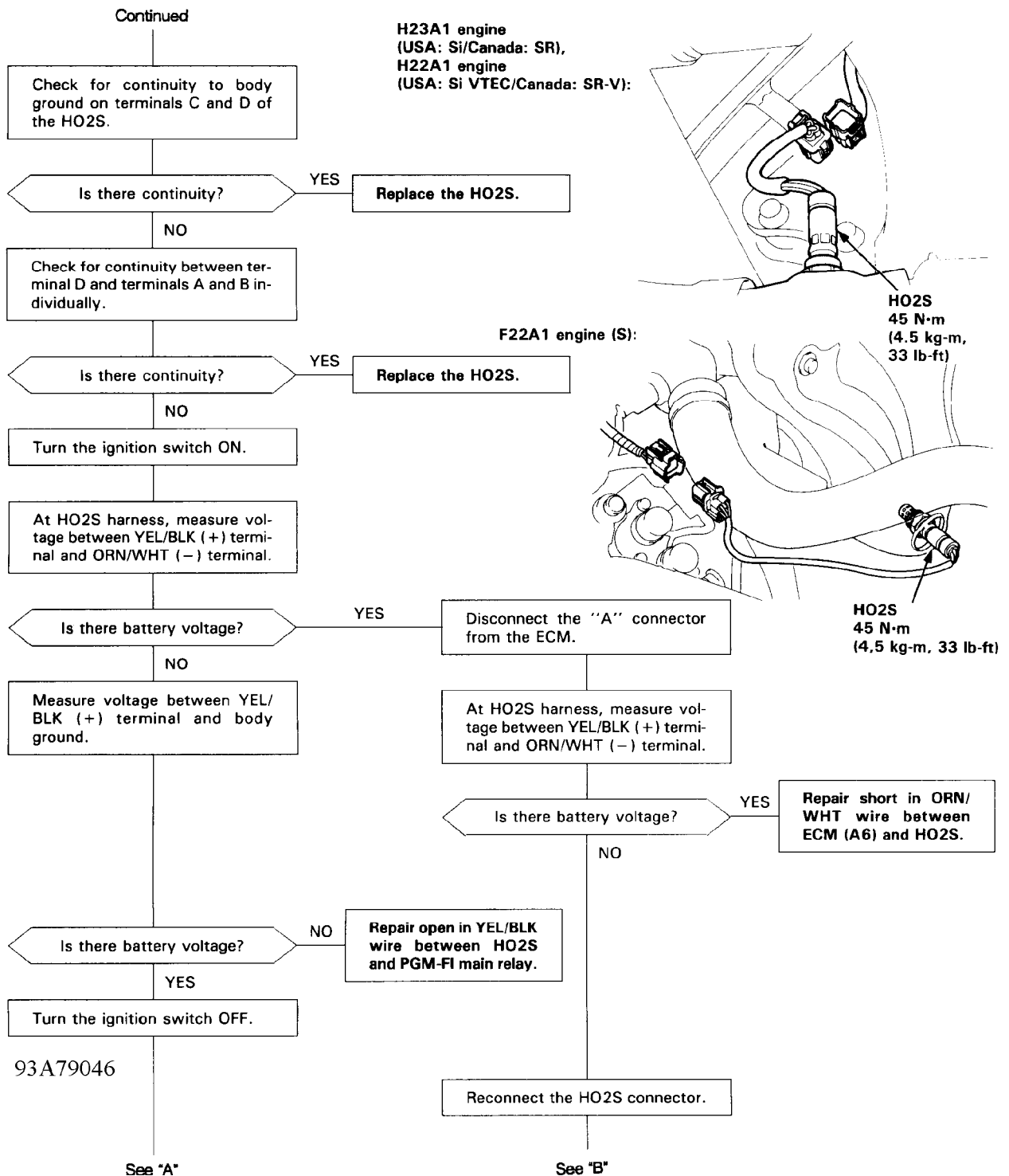
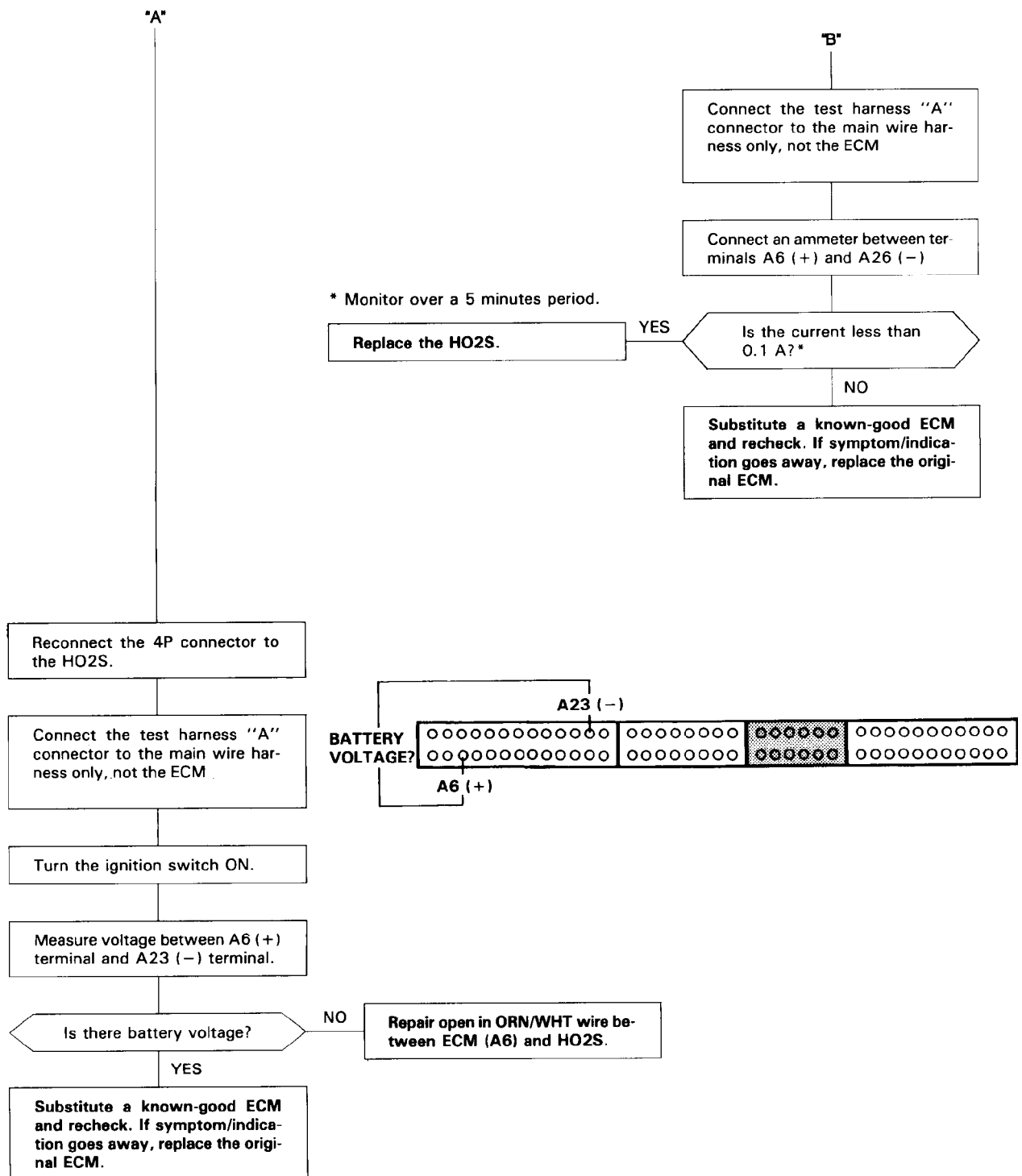

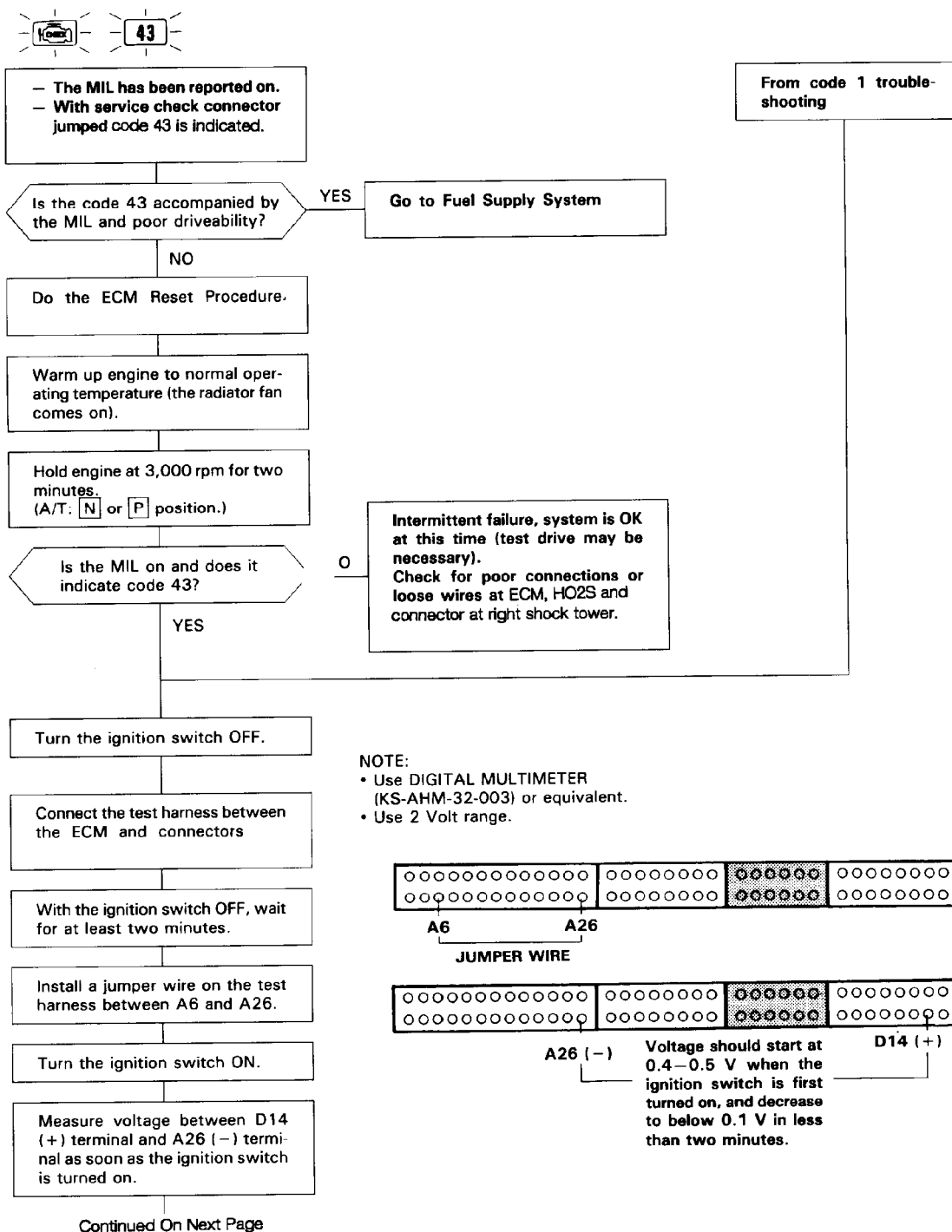


Fig. 43: Code 41 Flowchart, Heated Oxygen Sensor Heater (2 of 3)
 G-TESTS W/CODES Article Text (p.45) 1993 Honda Prelude For Cadi Centre Nsk CA 95051 Copyright © 1998 Mitc
 Courtesy of American Honda Motor Co., Inc.



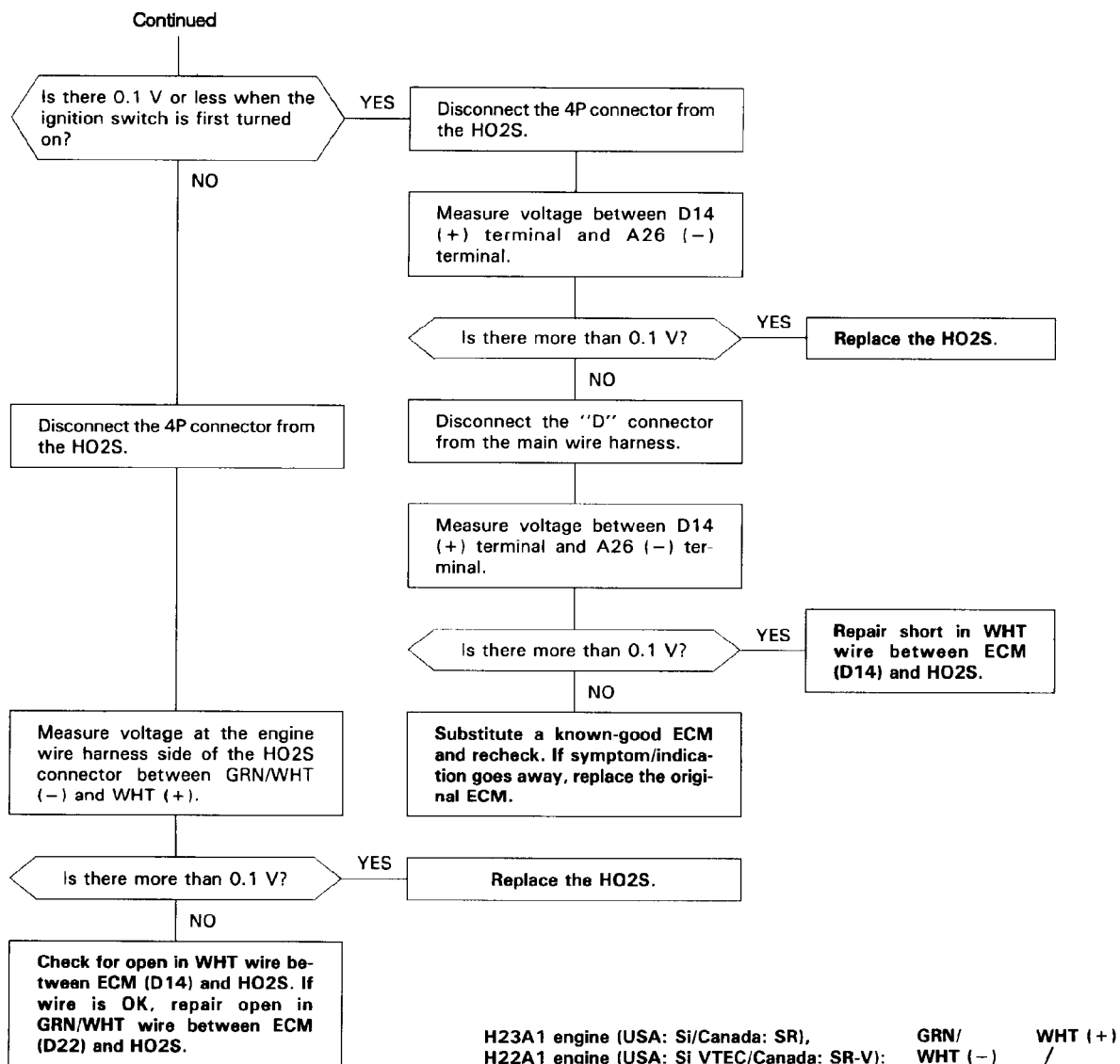
93B79047
Fig. 44: Code 41 Flowchart, Heated Oxygen Sensor Heater (3 of 3)
 Courtesy of American Honda Motor Co., Inc.
G - TESTS W/CODES Article Text (p. 46) 1993 Honda Prelude For Cadi Centre Nsk CA 95051 Copyright © 1998 Mitc
 CODE 43 - FUEL SUPPLY SYSTEM

 **43** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 43: A problem in the Heated Oxygen Sensor (HO2S) circuit or a problem in the Fuel Supply System.

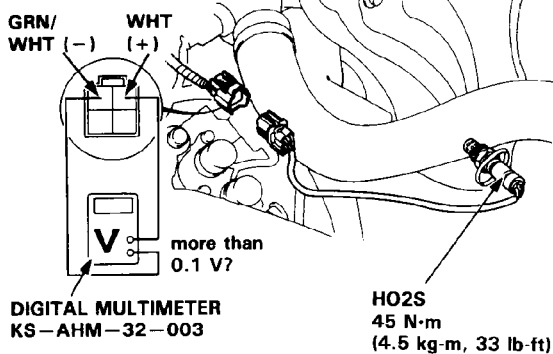


93C79048

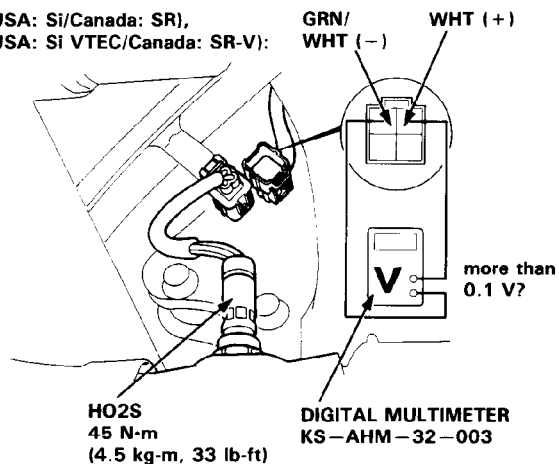
Fig. 45: Code 43 Flowchart, Fuel Supply System (1 of 2)



F22A1 engine (S):



H23A1 engine (USA: Si/Canada: SR),
H22A1 engine (USA: Si VTEC/Canada: SR-V):



93D79049

Fig. 46: Code 43 Flowchart, Fuel Supply System (2 of 2)

Courtesy of American Honda Motor Co., Inc.

END OF ARTICLE