

DW: Heated Oxygen Sensor (HO2S)

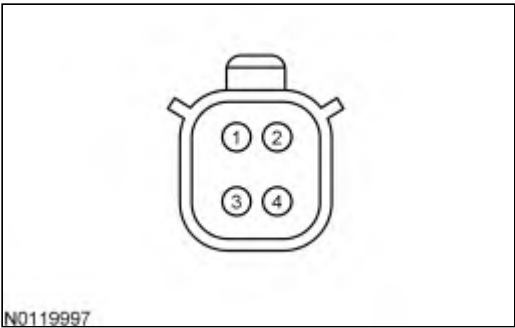
⚠️ WARNING: While conducting tests on a hot engine take all safety precautions to prevent skin contact with hot engine components. Failure to follow these instructions may result in personal injury.

This pinpoint test is intended to diagnose the following:

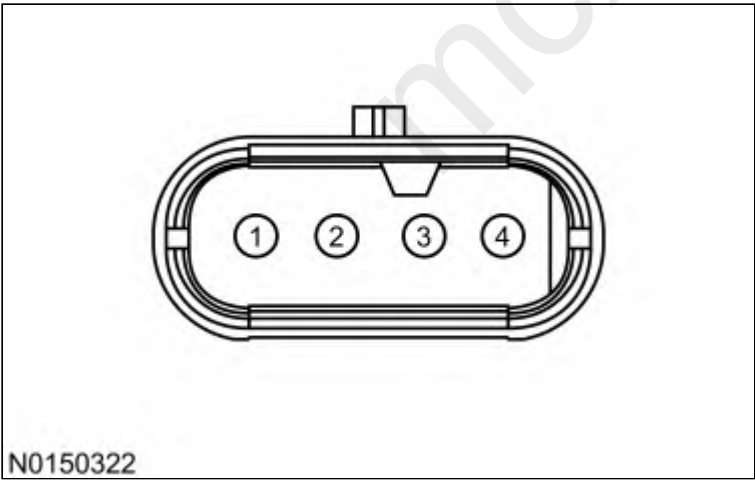
- exhaust leaks
- HO2S (9G444)
- harness circuits: HO2S11, HO2S12, HO2S22, HTR12, HTR22, VPWR and SIGRTN
- PCM (12A650)

Heated Oxygen Sensor Bank 1, Sensor 1 (HO2S11) Connector

A



B



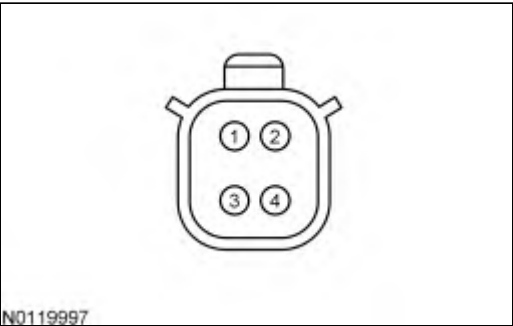
Vehicle	Connector	Pin	Circuit
Ranger	A	2	HTR11
		1	VPWR
		3	SIGRTN
		4	HO2S11

Vehicle	Connector	Pin	Circuit
All other vehicles	B	1	HTR11
		2	VPWR
		3	SIGRTN
		4	HO2S11

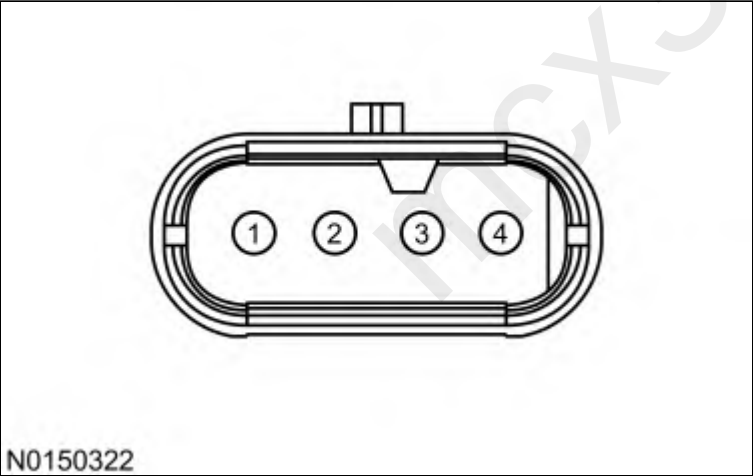
Heated Oxygen Sensor Bank 1, Sensor 2 (HO2S12) Connector

The pin numbering for the connector is in reference to the connector lock tab. Not all connector key combinations are shown.

A



B



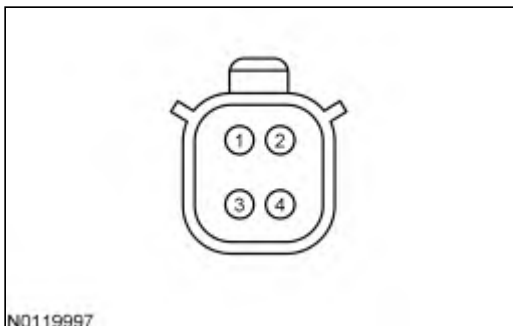
Vehicle	Connector	Pin	Circuit

Vehicle	Connector	Pin	Circuit
Continental 2.7L, Continental 3.0L, Continental 3.7L, E-Series, F-650 / F-750, Flex, Fusion 2.0L, Fusion 2.5L, Fusion 2.7L, MKZ, Mustang TiVCT 5.2L, Ranger 2.5L	A	2 1 3 4	HTR12 VPWR SIGRTN HO2S12
Continental 2.0L, Expedition, F-Series Super Duty, Ford GT, Fusion 1.5L, Motorhome / Stripped Chassis / Step Van, Navigator	B	2 1 3 4	HTR12 VPWR SIGRTN HO2S12
All other vehicles	B	1 2 3 4	HTR12 VPWR SIGRTN HO2S12

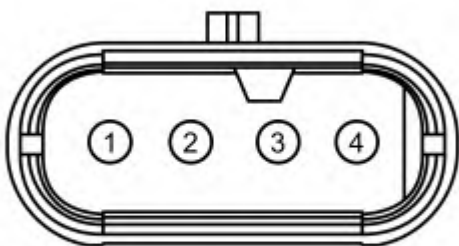
Heated Oxygen Sensor Bank 2, Sensor 2 (HO2S22) Connector

The pin numbering for the connector is in reference to the connector lock tab. Not all connector key combinations are shown.

A



B



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Vehicle	Connector	Pin	Circuit
Continental, E-Series, F-650 / F-750, Flex, Fusion, MKZ, Mustang TiVCT 5.2L	A	2 1 3 4	HTR22 VPWR SIGRTN HO2S22
Expedition, F-Series Super Duty, Ford GT, Mustang 5.2L Supercharged, Navigator	B	2 1 3 4	HTR22 VPWR SIGRTN HO2S22
All other vehicles	B	1 2 3 4	HTR22 VPWR SIGRTN HO2S22

Powertrain Control Module (PCM) Connector

For PCM connector views or reference values, refer to Section 6, Reference Values.

Vehicle	Connector	Pin	Circuit
Continental 2.0L, EcoSport 1.0L Automatic Transmission, EcoSport 2.0L, Fusion 1.5L, Fusion 2.0L, MKZ 2.0L	198 PIN	B1 B38 B57	HTR12 SIGRTN HO2S12

Vehicle	Connector	Pin	Circuit
Continental 2.7L, Continental 3.0L, Flex GTDI 3.5L, Ford GT, Fusion 2.7L, MKZ 3.0L	198 PIN	B61 B1 B37 B56 B38 B57	HTR22 HTR12 SIGRTN HO2S22 SIGRTN HO2S12
Continental 3.7L, E-Series, Flex TiVCT 3.5L, Mustang TiVCT 5.2L	198 PIN	E83 E78 B90 B91 B71 B72	HTR22 HTR12 SIGRTN HO2S22 SIGRTN HO2S12
Corsair 2.0L, Corsair 2.3L, Escape/Kuga 2.0L	198 PIN	E26 B55 E81	HTR12 SIGRTN HO2S12
Corsair 2.5L, Escape/Kuga 2.5L, Fusion 2.5L, Transit Connect 2.5L	198 PIN	E92 B71 B72	HTR12 SIGRTN HO2S12
EcoSport 1.0L Manual Transmission	198 PIN	B1 B37 B57	HTR12 SIGRTN HO2S12
EcoSport 1.5L Automatic Transmission, KA 1.5L Automatic Transmission	198 PIN	E92 E93 B53 B72 B51 B70	HTR12 HTR11 SIGRTN HO2S12 SIGRTN HO2S11
EcoSport 1.5L Manual Transmission, KA 1.2L, KA 1.5L Manual Transmission	112 PIN	E49 E50 E1 E14 E2 E29	HTR12 HTR11 SIGRTN HO2S12 SIGRTN HO2S11
Edge 2.0L, Nautilus 2.0L	198 PIN	E81 B26 E26	HTR12 SIGRTN HO2S12
Edge 2.7L, Nautilus 2.7L	306 PIN	T16 T77 B28 T26 T84 T10	HTR22 HTR12 SIGRTN HO2S22 SIGRTN HO2S12

Vehicle	Connector	Pin	Circuit
Escape/Kuga 1.5L, Explorer 2.3L, Mustang 2.3L, Ranger 2.3L, Transit Connect 1.0L, Transit Connect 2.0L	198 PIN	E81 E13 E26	HTR12 SIGRTN HO2S12
Expedition, F-150 3.5L High Output, Navigator	198 PIN	B78 B1 B94 B95 B75 B76	HTR22 HTR12 SIGRTN HO2S22 SIGRTN HO2S12
F-650 / F-750	198 PIN	E78 B71 B72	HTR12 SIGRTN HO2S12
KA 1.0L	128 PIN	E36 E20 E8 E19 E7 E20	HTR12 HTR11 SIGRTN HO2S12 SIGRTN HO2S11
Motorhome / Stripped Chassis / Step Van	306 PIN	T77 T84 T10	HTR12 SIGRTN HO2S12
Ranger 2.5L	128 PIN	E47 E23 E9 E20 E6 E21	HTR12 HTR11 SIGRTN HO2S12 SIGRTN HO2S11
All other vehicles	306 PIN	T16 T77 T85 T26 T84 T10	HTR22 HTR12 SIGRTN HO2S22 SIGRTN HO2S12

DW1 CHECK FOR DTCS

Are DTCs P0030, P0036, P0037, P0038, P0041, P0053, P0054, P0056, P0060, P00D2, P0130, P0131, P0132, P0133, P0134, P0135, P0136, P0137, P0138, P0139, P013A, P013B, P013C, P013E, P0140, P0141, P014A, P0157, P0158, P0159, P0161, P016A, P2270, P2271, P2272, P2273, P2297, P2A01 or P2A04 present?

Yes	GO to DW2 .
No	RETURN to Section 3, Symptom Charts for further direction.

DW2 VISUALLY INSPECT THE HO2S HARNESS

- Ignition OFF.
- Verify the HO2S connectors are connected to the correct engine bank.

Visually inspect for:

- crossed sensor wires
- pinched, shorted or corroded wiring and pins
- oil or water contamination
- damaged HO2S

Is a concern present?

Yes	REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	For DTC P0041, GO to DW3 . For DTCs P013A, P013C, P013E, P014A, P016A, P2270, P2271, P2272, P2273 or P2297, GO to DW4 . For DTCs P0137 or P0157, GO to DW9 . For DTCs P0030, P0036, P0037, P0038, P0053, P0054, P0056, P0060, P0135, P0141 or P0161, GO to DW15 . For all others, GO to DW5 .

DW3 CARRY OUT THE KOER SELF-TEST

- Engine at normal operating temperature.
- Carry out the PCM KOER self-test.

Is DTC P0041 present?

Yes	GO to DW9 .
No	GO to DW4 .

DW4 CHECK FOR A SOURCE OF POTENTIAL HO2S CONTAMINATION

- Investigate the following items as potential sources of HO2S contamination:
 - use of unapproved silicon sealers
 - fuel contaminated by silicon additives
 - excessive oil consumption
 - glycol leaking internally in the engine
 - contaminated fuel
 - short drive cycles in cold weather
 - use of unapproved cleaning agents

Is a concern present?

Yes	REPAIR the source of the contamination. CHANGE the engine oil and oil filter. RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.
No	GO to DW5 .

DW5 CHECK FOR UNMETERED AIR LEAKS

Note: Fuel calculations can be affected by unmetered air leaks.

- Carefully inspect the following areas for potential air leaks:
 - hoses connecting to the mass air flow (MAF) sensor assembly

- hoses connecting to the throttle body
- intake manifold gasket leaks
- positive crankcase ventilation (PCV) system
- the vacuum lines are disconnected
- incorrectly seated engine oil dipstick, tube or oil fill cap

Are any air leaks present?

Yes	REPAIR the source of the air leak. RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.
No	For DTCs P0130, P0131, P0132, P0133 or P0134, GO to DW8 . For all others, GO to DW6 .

DW6 CHECK FOR EXHAUST SYSTEM CONCERNS

NOTICE: Pressure above 241 kPa (35 psi) can cause damage to system components. Regulate the shop air to 34.4 kPa (5 psi) before connecting to the system.

Note: The DTCs P013A, P013E, P2270 and P2271 refer to the HO2S12 sensor and DTCs P013C, P014A, P2272 and P2273 refer to the HO2S22 sensor that are located after the catalyst. Before installing a new HO2S12 sensor or HO2S22 sensor, refer to the 4 pin HO2S sensor connector view at the beginning of this pinpoint test to verify the correct HO2S sensor replacement.

- Pressurize the exhaust system at the exhaust pipe outlet with 34.4 kPa (5 psi) regulated shop air.
- Check the exhaust system for leaks using a soap and water solution.
- Apply the soap and water solution to the following areas:
 - the exhaust flanges and gaskets
 - the universal HO2S and mounting surface
 - the exhaust system in between the universal HO2S and the downstream HO2S
 - the downstream HO2S and mounting surface
 - the exhaust system within 15.25 cm (6 inches) of the downstream HO2S and mounting surface
- Check the exhaust flange bolts for correct torque.
- Check the downstream HO2S for correct torque.

Is a concern present?

Yes	For DTCs P013A or P013C, REPAIR as necessary. CARRY OUT the HO2S and Catalyst OBD Monitor Drive Cycle Procedures. REFER to Section 2, On Board Diagnostic (OBD) Drive Cycle . Clear the PCM DTCs. REPEAT the self-test. If DTCs P013A or P013C are retrieved again, GO to DW7 . For DTCs P013E, P014A, P2270, P2271, P2272 or P2273, REPAIR as necessary. CARRY OUT the HO2S and Catalyst OBD Monitor Drive Cycle Procedures. REFER to Section 2, On Board Diagnostic (OBD) Drive Cycle . Clear the PCM DTCs. REPEAT the self-test. For all others, REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	For DTCs P013A or P013C, GO to DW7 . For DTCs P013E, P014A, P2270, P2271, P2272 or P2273, INSTALL a new HO2S. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. CARRY OUT the HO2S and Catalyst OBD Monitor Drive Cycle Procedures. REFER to Section 2, On Board Diagnostic (OBD) Drive Cycle . Clear the PCM DTCs. REPEAT the self-test. For all others, GO to DW8 .

DW7 CHECK THE CATALYTIC CONVERTER

Note: Internal damage of a catalytic converter is usually caused by abnormal engine operation upstream of the catalyst. Events that can produce higher than normal temperatures in the catalyst are particularly suspect. For example, misfiring can cause higher than normal catalyst operating temperatures.

Note: The DTCs P013A and P013E refer to the HO2S12 sensor and DTCs P013C and P014A refer to the HO2S22 sensor that are located after the catalyst. Before installing a new HO2S12 sensor or HO2S22 sensor, refer to the 4 pin HO2S sensor connector view at the beginning of this pinpoint test to verify the correct HO2S sensor replacement.

- Inspect the catalyst substrate for damage.

Is a concern present?

Yes	INSTALL a new monitored catalyst only, for the bank referenced. Do not install a new unmonitored catalyst unless it is repaired as an assembly. REFER to the Workshop Manual Section 309-00, Exhaust System. CARRY OUT the HO2S and Catalyst OBD Monitor Drive Cycle Procedures. REFER to Section 2, On Board Diagnostic (OBD) Drive Cycle . Clear the PCM DTCs. REPEAT the self-test.
No	INSTALL a new HO2S. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. CARRY OUT the HO2S and Catalyst OBD Monitor Drive Cycle Procedures. REFER to Section 2, On Board Diagnostic (OBD) Drive Cycle . Clear the PCM DTCs. REPEAT the self-test.

DW8 CHECK FOR FUEL SELECTION CONCERNS

- Verify with the customer that flex fuel is not being used on a non-flex fuel vehicle.

Is a concern present?

Yes	REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	For DTCs P0130, P0131, P0132, P0133, P0134, P016A or P2297, GO to DW11 . For all others, GO to DW9 .

DW9 CHECK THE SENSOR

Note: The HO2S heaters must be ON for 2 minutes before continuing diagnosis.

- Ignition ON, engine running.
- Allow the engine to idle until the HO2S heater PID indicates ON for 2 minutes.
- For the HO2S12,
 - Access the PCM and monitor the HTR12 (MODE) PID.
 - Access the PCM and control the EQRAT11_DSD (RATIO) PID.
 - Command the PID to 13:1.
 - Access the PCM and monitor the O2S12 (VOLT) PID.
 - Record the PID value.
- For the HO2S22,
 - Access the PCM and monitor the HTR22 (MODE) PID.
 - Access the PCM and control the EQRAT21_DSD (RATIO) PID.
 - Command the PID to 13:1.
 - Access the PCM and monitor the O2S22 (VOLT) PID.
 - Record the PID value.

Is the PID voltage approximately 0.8V?

Yes	GO to DW10 .
No	GO to DW12 .

DW10 CARRY OUT A THOROUGH WIGGLE TEST ON THE HO2S HARNESS

Note: The HO2S heaters must be ON for 2 minutes before continuing diagnosis.

- For the HO2S12,
- Access the PCM and monitor the HTR12 (MODE) PID.
- Access the PCM and control the EQRAT11_DSD (RATIO) PID.
- Command the PID to 13:1.
- Access the PCM and monitor the O2S12 (VOLT) PID.
- Carry out a thorough wiggle test on the HO2S12 harness.
- For the HO2S22,
- Access the PCM and monitor the HTR22 (MODE) PID.
- Access the PCM and control the EQRAT21_DSD (RATIO) PID.
- Command the PID to 13:1.
- Access the PCM and monitor the O2S22 (VOLT) PID.
- Carry out a thorough wiggle test on the HO2S22 harness.

Does the voltage change during the wiggle test?

Yes	REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	For DTC P00D2, GO to DW15 . For all others, GO to Pinpoint Test Z .

DW11 CARRY OUT A WIGGLE TEST ON THE HO2S HARNESS

- Ignition ON, engine OFF.
- Access the PCM and monitor the O2S11 (VOLT) PID.
- Carry out a thorough wiggle test on the HO2S11 harness.

Does the voltage change during the wiggle test?

Yes	REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	GO to DW12 .

DW12 CHECK THE HO2S CIRCUITS FOR AN OPEN

Note: Check both halves of the HO2S connector for any water contamination.

- Ignition OFF.
- PCM connector disconnected.
- For the HO2S11,
- HO2S11 connector disconnected.
- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-) PCM Connector, Harness Side
HO2S11	HO2S11
SIGRTN	SIGRTN

- For the HO2S12,
- HO2S12 connector disconnected.
- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-) PCM Connector, Harness Side
HO2S12	HO2S12
SIGRTN	SIGRTN

- For the HO2S22,
- HO2S22 connector disconnected.
- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-) PCM Connector, Harness Side
HO2S22	HO2S22
SIGRTN	SIGRTN

Are the resistances less than 5 ohms?

Yes	GO to DW13 .
No	REPAIR the open circuit. Clear the PCM DTCs. REPEAT the self-test.

DW13 CHECK THE HO2S CIRCUIT FOR A SHORT

- For the HO2S11,
- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-) HO2S11 Connector, Harness Side
HO2S11	SIGRTN
HO2S11	VPWR

- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-)
HO2S11	Ground

- For the HO2S12,
- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-) HO2S12 Connector, Harness Side
HO2S12	SIGRTN
HO2S12	VPWR

- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-)
HO2S12	Ground

- For the HO2S22,
- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-) HO2S22 Connector, Harness Side
HO2S22	SIGRTN
HO2S22	VPWR

- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-)
HO2S22	Ground

Are the resistances greater than 10K ohms?

Yes	GO to DW14 .
No	REPAIR the short circuit. Clear the PCM DTCs. REPEAT the self-test.

DW14 CHECK THE HO2S CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON, engine OFF.
- For the HO2S11,
- Measure the voltage between:

(+) HO2S11 Connector, Harness Side	(-)
HO2S11	Ground

- For the HO2S12,
- Measure the voltage between:

(+) HO2S12 Connector, Harness Side	(-)
HO2S12	Ground

- For the HO2S22,
- Measure the voltage between:

(+) HO2S22 Connector, Harness Side	(-)
HO2S22	Ground

Is any voltage present?

Yes	REPAIR the short circuit. Clear the PCM DTCs. REPEAT the self-test.

No	For DTCs P00D2, P0137 or P0157, GO to DW15 . For DTCs P0041, P0133, P0134, P0139, P0159, P2A01 or P2A04, GO to Pinpoint Test Z . For all others, INSTALL a new HO2S. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.
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DW15 CHECK FOR VPWR

Note: Diagnose the suspect sensor indicated by the DTC.

- Ignition OFF.
- PCM connector connected.
- For the HO2S11,
- HO2S11 connector disconnected.
- Ignition ON, engine OFF.
- Measure the voltage between:

(+) HO2S11 Connector, Harness Side	(-)
VPWR	Ground

- For the HO2S12,
- HO2S12 connector disconnected.
- Ignition ON, engine OFF.
- Measure the voltage between:

(+) HO2S12 Connector, Harness Side	(-)
VPWR	Ground

- For the HO2S22,
- HO2S22 connector disconnected.
- Ignition ON, engine OFF.
- Measure the voltage between:

(+) HO2S22 Connector, Harness Side	(-)
VPWR	Ground

Is the voltage greater than 10.5 V?

Yes	GO to DW16 .
No	REPAIR the open circuit. Clear the PCM DTCs. REPEAT the self-test.

DW16 CHECK THE HO2S HEATER CIRCUIT FOR AN OPEN

- Ignition OFF.
- PCM connector disconnected.
- For the HO2S11,
- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-) PCM Connector, Harness Side
HTR11	HTR11

- For the HO2S12,
- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-) PCM Connector, Harness Side
HTR12	HTR12

- For the HO2S22,
- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-) PCM Connector, Harness Side
HTR22	HTR22

Is the resistance less than 5 ohms?

Yes	GO to DW17 .
No	REPAIR the open circuit. Clear the PCM DTCs. REPEAT the self-test.

DW17 CHECK THE HO2S HEATER FOR SHORT CIRCUITS

- For the HO2S11,
- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-)
HTR11	Ground

- Measure the resistance between:

(+) HO2S11 Connector, Harness Side	(-) HO2S11 Connector, Harness Side
HTR11	VPWR
HTR11	SIGRTN
HTR11	HO2S11

- For the HO2S12,
- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-)
HTR12	Ground

- Measure the resistance between:

(+) HO2S12 Connector, Harness Side	(-) HO2S12 Connector, Harness Side
HTR12	VPWR
HTR12	SIGRTN
HTR12	HO2S12

- For the HO2S22,
- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-)
HTR22	Ground

- Measure the resistance between:

(+) HO2S22 Connector, Harness Side	(-) HO2S22 Connector, Harness Side
HTR22	VPWR
HTR22	SIGRTN
HTR22	HO2S22

Are the resistances greater than 10K ohms?

Yes	GO to DW18 .
No	REPAIR the short circuit. Clear the PCM DTCs. REPEAT the self-test.

DW18 CHECK THE INTERNAL RESISTANCE OF THE HO2S HEATER

- For the HO2S11,
- Measure the resistance between:

(+) HO2S11 Connector, Component Side	(-) HO2S11 Connector, Component Side
HTR11	VPWR

- For the HO2S12,
- Measure the resistance between:

(+) HO2S12 Connector, Component Side	(-) HO2S12 Connector, Component Side
HTR12	VPWR

- For the HO2S22,
- Measure the resistance between:

(+) HO2S22 Connector, Component Side	(-) HO2S22 Connector, Component Side
HTR22	VPWR

Is the resistance between 2 - 30 ohms?

Yes	GO to DW19 .
No	INSTALL a new HO2S. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.

DW19 CHECK THE HEATER CIRCUIT FOR AN INTERNAL SHORT TO GROUND

- For the HO2S11,
- Measure the resistance between:

(+) HO2S11 Connector, Component Side	(-) HO2S11 Connector, Component Side
HTR11	SIGRTN

- Measure the resistance between:

(+) HO2S11 Connector, Component Side	(-)
HTR11	Ground

- For the HO2S12,
- Measure the resistance between:

(+) HO2S12 Connector, Component Side	(-) HO2S12 Connector, Component Side
HTR12	SIGRTN

- Measure the resistance between:

(+) HO2S12 Connector, Component Side	(-)
HTR12	Ground

- For the HO2S22,
- Measure the resistance between:

(+) HO2S22 Connector, Component Side	(-) HO2S22 Connector, Component Side
HTR22	SIGRTN

- Measure the resistance between:

(+) HO2S22 Connector, Component Side	(-)
HTR22	Ground

Is the resistance greater than 10K ohms?

Yes	For DTC P00D2, GO to Pinpoint Test Z . For all others, GO to DW20 .
No	INSTALL a new HO2S. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.

DW20 CHECK FOR CORRECT OPERATION

- Ignition OFF.
- Disconnect all the PCM connectors.
- Disconnect the HO2S12 and the HO2S22 connectors.
- Visually inspect for:
 - pushed out pins
 - corrosion
- Connect all the PCM connectors and the HO2S12 and the HO2S22 connectors. Make sure the connectors are seated correctly.
- Carry out the PCM self-test.
- Verify the concern is still present.

Is the concern still present?

Yes	INSTALL a new HO2S in question. REFER to the Workshop Manual Section 303-14, Electronic Engine Controls. Flash Electrically Erasable Programmable Read Only Memory (EEPROM) . RESET the keep alive memory (KAM). REFER to Section 2, Resetting The Keep Alive Memory (KAM) . REPEAT the self-test.
No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.