

DZ: Universal Heated Oxygen Sensor (HO2S) Introduction

[DZ: Pinpoint Tests](#) ➔

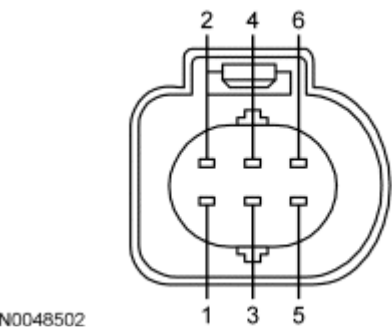
⚠ WARNING: WHILE CONDUCTING TESTS ON A HOT ENGINE TAKE ALL SAFETY PRECAUTIONS TO PREVENT SKIN CONTACT WITH HOT ENGINE COMPONENTS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.

Note: Only diagnose the suspect universal HO2S indicated by the DTC.

This pinpoint test is intended to diagnose the following:

- universal HO2S (9Y460)
- harness circuits: UO2S, UO2SGREF, UO2SHTR, UO2SPC, UO2SPCT, and VPWR
- powertrain control module (PCM) (12A650)

Universal HO2S-Front Connector



Pin	Circuit
5	UO2SPCT (Universal Oxygen Sensor Pumping Current Trim)
1	UO2SPC (Universal Oxygen Sensor Pumping Current)
4	VPWR (Vehicle Power)
2	UO2SGREF (Universal Oxygen Sensor Ground Reference)
6	UO2S (Universal Oxygen Sensor)
3	UO2SHTR (Universal Oxygen Sensor Heater)

Powertrain Control Module (PCM) Connector

Vehicle	Connector	Pin	Circuit
E-Series, Expedition, F-150, Navigator	190-Pin	E38	UO2S11 UO2S21
		E39	UO2SGREF11
		E26	UO2SGREF21

		E25	UO2SHTR11 UO2SHTR21
		E69	UO2SPC11 UO2SPC21
		E70	UO2SPCT11 UO2SPCT21
		E23	
		E24	
		E11	
		E12	
All other vehicles	190-Pin	E18	UO2S11 UO2S21
		E20	UO2SGREF11
		E19	UO2SGREF21
		E21	UO2SHTR11 UO2SHTR21
		E69	UO2SPC11 UO2SPC21
		E70	UO2SPCT11 UO2SPCT21
		E4	
		E6	
		E5	
		E7	

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