# P0134: O2 Sensor (HO2S) Circuit No Activity Detected (Sensor-1)

## Wiring Diagram

Refer to "DTC P0131 / P0132: O2 Sensor (HO2S) Circuit Low Voltage / High Voltage (Sensor-1)".

## DTC Detecting Condition and Trouble Area

| DTC detecting condition | Trouble area |
|---|---|
| HO2S voltage is higher than specified value for 1 min. after warming up engine or<br>HO2S voltage is lower than specified value for 1 min. after warming up engine.<br>(2 driving cycle detection logic) | •HO2S-1<br>• HO2S-1 circuit<br>• Exhaust gas leakage<br>•ECM<br>• Air intake system |



## DTC Confirmation Procedure

1) With ignition switch turned OFF, connect scan tool.
2) Turn ON ignition switch and clear DTC using scan tool.
3) Start engine and warm up to normal operating temperature.
4) Drive vehicle at 40 mph (60 km/h) or higher. (engine speed: 2500 – 3000 r/min.)
5) Keep above vehicle speed for 6 min. or more. (Throttle valve opening is kept constant in this step.)
6) Release accelerator pedal and with engine brake applied, keep vehicle coasting (with fuel cut for 3 sec. or more)and then stop vehicle.
7) Check DTC and pending DTC.

# DTC Troubleshooting

| Step | Action | Yes | No |
|---|---|---|---|
| 1 | Was "Engine and Emission Control System Check" performed? | Go to Step 2. | Go to "Engine and Emission Control System Check". |
| 2 | HO2S-1 output voltage check<br>1) Connect scan tool to DLC with ignition switch turned OFF.<br>2) Warm up engine to normal operating temperature and keep it at 2000 r/min. for 60 sec.<br>3) Repeat racing engine (Repeat depressing accelerator pedal 5 to 6 times continuously to enrich A/F mixture and take foot off from pedal to enlean it) and check HO2S output voltages displayed on scan tool.<br>Is over 0.6 V and below 0.3 V indicated? | Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00". If check result is OK, go to Step 3. | Go to Step 3. |
| 3 | HO2S-1 ground check<br>1) Disconnect connector from HO2S-1 with ignition switch turned OFF.<br>2) Check for proper connection to HO2S-1 at "BLK/RED", "WHT", "BLK/WHT" and "ORN" wire terminals.<br>3) If wire and connection are OK, measure resistance between "ORN" wire terminal of HO2S-1 connector and engine ground.<br>Is resistance less than 5 Ω? | Go to Step 4. | "ORN" wire is open or high resistance circuit. Poor "C01-57" terminal connection. Faulty ECM ground. If they are OK, substitute a known-good ECM and recheck. |

| Step | Action | Yes | No |
|---|---|---|---|
| 4 | Wire circuit check<br>1) Turn OFF ignition switch.<br><br>2) Remove ECM from its bracket with ECM connectors connected.<br><br>3) Measure resistance between "WHT" wire terminal of HO2S-1 connector and "C01-10" terminal of ECM connector.<br><br>Is resistance less than 5 Ω? | Go to Step 5. | "WHT" wire is high resistance circuit or open circuit. Poor "C01-10" terminal connection of ECM connector. Faulty ECM ground. If they are OK, substitute a known-good ECM and recheck. |
| 5 | Wire circuit check<br>1) Disconnect connectors from ECM with ignition switch turned OFF.<br>2) Measure resistance between "WHT" wire terminal of HO2S-1 connector and vehicle body ground.<br>Is resistance infinity? | Go to Step 6. | "WHT" wire is shorted to ground circuit. |
| 6 | HO2S-1 heater circuit check<br>1) Check HO2S-1 heater circuit referring to "DTC P0031 / P0032: HO2S Heater Control Circuit Low / High (Sensor-1)".<br>Is it in good condition? | Go to Step 7. | Repair HO2S-1 circuit. |
| 7 | Exhaust system check<br><br>1) Check exhaust system for exhaust gas leakage. Is it OK? | Go to Step 4 in "DTC P0171 / P0172: Fuel System Too Lean / Rich".<br><br>If it is in good condition, go to Step 8. | Repair leakage of exhaust system. |

| Step | Action | Yes | No |
|---|---|---|---|
| 8 | Air intake system check<br>1) Check air intake system for clog or leak. Is it OK? | Replace HO2S-1 referring to "Heated Oxygen Sensor (HO2S-1 and HO2S-2) Removal and Installation (If Equipped) in Section 1C". If DTC still exists, substitute a known-good ECM and recheck. | Repair or replace air intake system. |