

1A



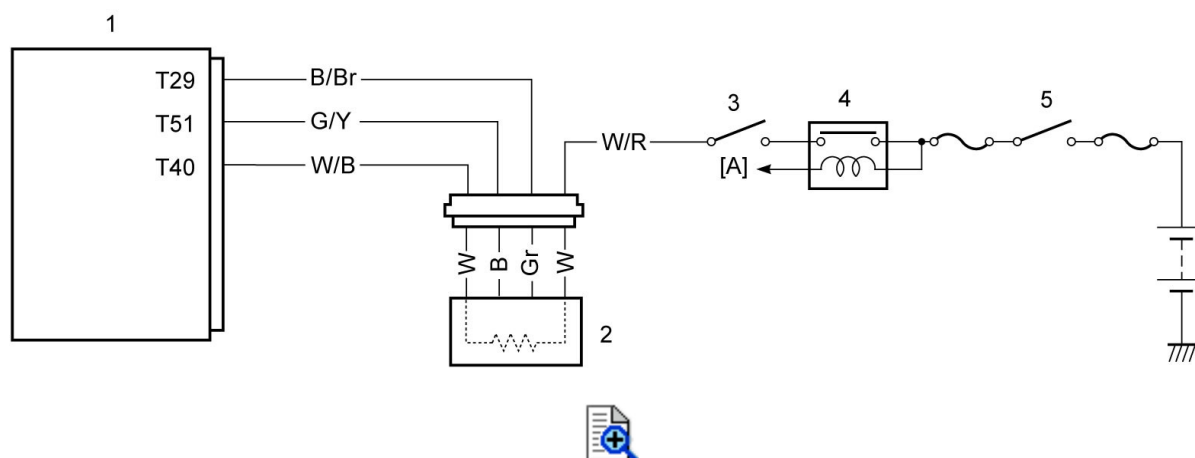
DTC P0130 (C64)

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble Area
P0130 (C64): HO2 Sensor #1 Circuit Malfunction HO2 sensor #1 output voltage is not input to ECM during engine operation and running condition.	<ul style="list-style-type: none">HO2 sensor #1HO2 sensor #1 circuitECM

Wiring Diagram

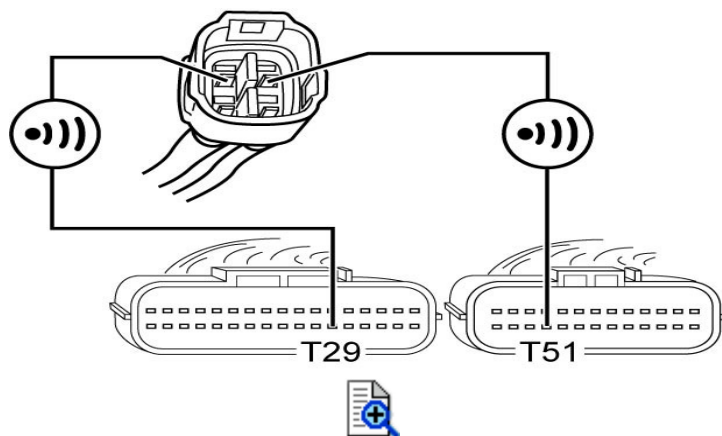
Refer to [FI System Wiring Diagram](#).



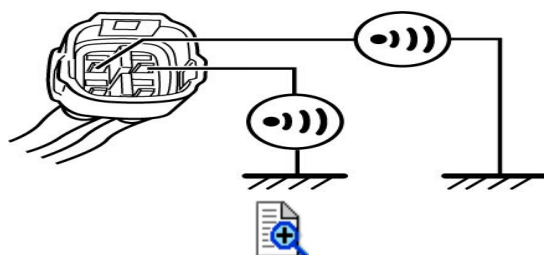
[A]:	To GP switch	2.	HO2 sensor #1	4.	Side-stand relay
1.	ECM	3.	Engine stop switch	5.	Ignition switch

Troubleshooting (Use of SDS)

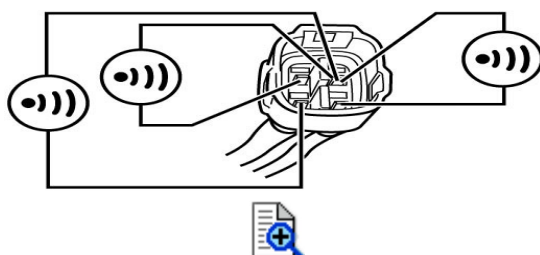
Step	Action	Yes	No
1	HO2 sensor circuit check 1) Turn the ignition switch OFF. 2) Disconnect the HO2 sensor #1 coupler and the ECM couplers. <ul style="list-style-type: none">HO2 sensor #1: ECM: 3) Check for proper terminal connection to the HO2 sensor #1 coupler and the ECM couplers. 4) If connections are OK, check the following points. <ul style="list-style-type: none">Resistance<ul style="list-style-type: none">G/Y wire and B/Br wire: less than 1 Ω	Go to Step 2.	Repair or replace the defective wire harness.



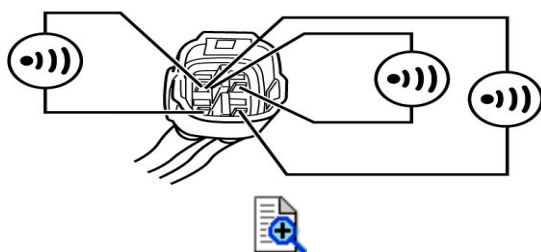
- Between each of G/Y wire and B/Br wire and ground: infinity



- Between G/Y wire terminal and other terminal at HO2 sensor #1 coupler: infinity

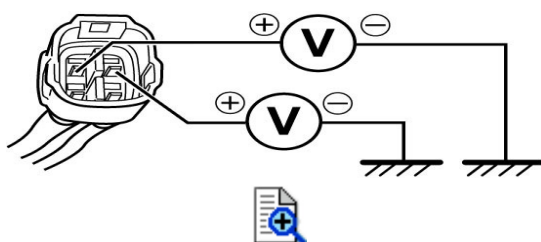


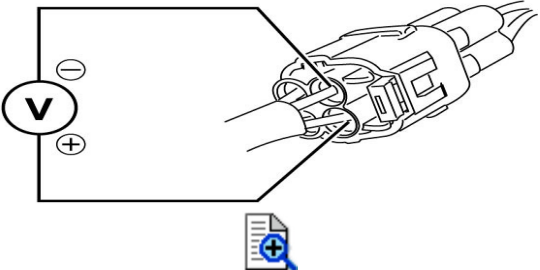


- Between B/Br wire terminal and other terminal at HO2 sensor #1 coupler: infinity




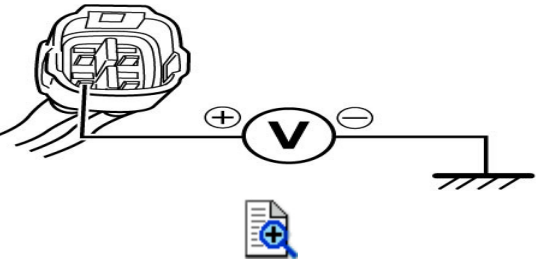

• Voltage

- Turn the ignition switch ON.
- G/Y wire and B/Br wire: approx. 0 V

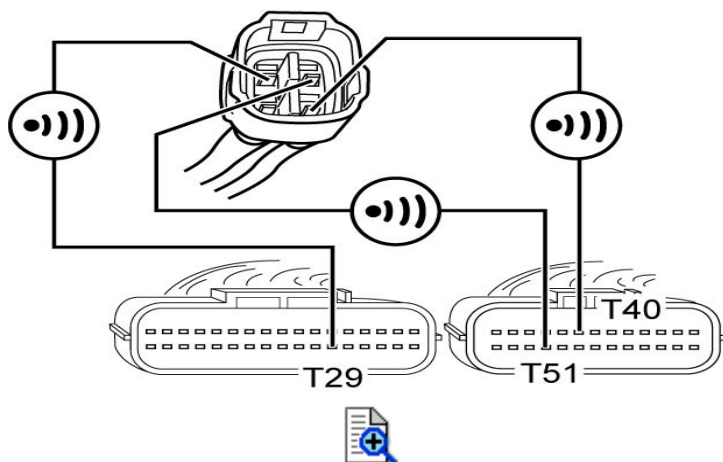


	<i>Is check result OK?</i>		
2	H02 sensor output voltage check <ol style="list-style-type: none"> 1) Turn the ignition switch OFF. 2) Connect the ECM coupler and HO2 sensor #1 lead wire coupler. 3) Warm up the engine enough. 4) Measure the HO2 sensor output voltage between the B wire and Gr wire, in idling condition. 5) If OK, measure the HO2 sensor #1 output voltage while holding the engine speed at 6000 r/min.  <p><i>Is voltage approx. 0.6 V or less (at idle speed) and approx. 0.6 V or more (at engine speed at 6000 r/min)?</i></p>	Replace the ECM with a known good one, and inspect it again. 	Replace the HO2 sensor #1 with a new one. 

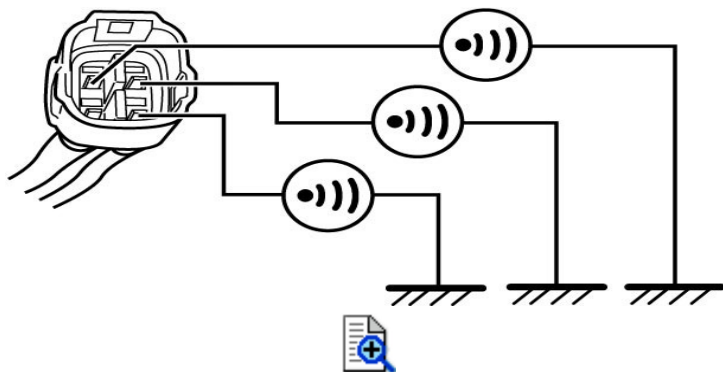
Troubleshooting (Use of Mode Select Switch)

Step	Action	Yes	No
1	H02 sensor heater power supply circuit check <ol style="list-style-type: none"> 1) Turn the ignition switch OFF. 2) Disconnect the HO2 sensor #1 coupler.  3) Check for proper terminal connection to the HO2 sensor #1 coupler. 4) If connections are OK, turn ignition switch ON. 5) Measure the voltage between W/R wire and ground.  <p><i>Is voltage battery voltage?</i></p>	Go to Step 2.	Repair or replace the W/R wire.
2	H02 sensor circuit check <ol style="list-style-type: none"> 1) Turn the ignition switch OFF. 2) Disconnect the ECM couplers.  	Go to Step 3.	Repair or replace the defective wire

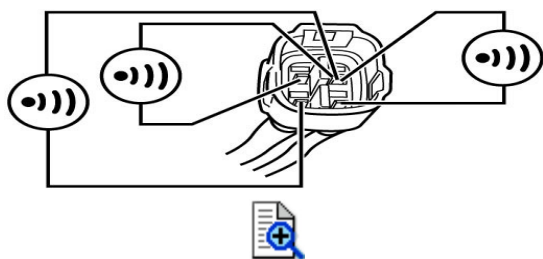
- 3) Check for proper terminal connection to the ECM couplers.
- 4) If connections are OK, check the following points.
 - Resistance
 - G/Y, B/Br and W/B wires: less than 1 Ω



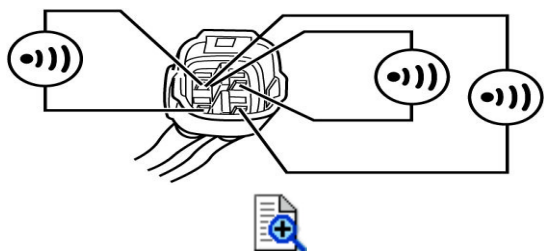
- Between each of G/Y, B/Br and W/R wire and ground: infinity



- Between G/Y wire terminal and other terminal at HO2 sensor #1 coupler: infinity



- Between B/Br wire terminal and other terminal at HO2 sensor #1 coupler: infinity



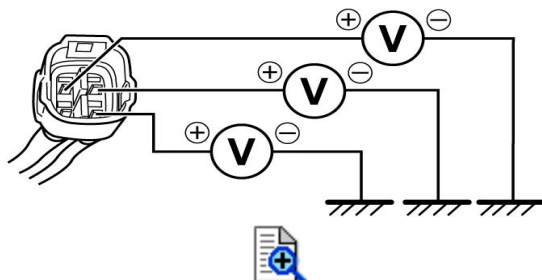
- Between W/B wire terminal and other terminal at HO2 sensor #1 coupler:

harness.

infinity



- Voltage
 - Turn the ignition switch ON.
 - W/B, G/Y and B/Br wires: approx. 0 V



Is check result OK?

3

HO2 sensor heater check

- 1) Turn the ignition switch OFF.
- 2) Measure the resistance between terminals.



Is resistance 6.7 – 9.5 Ω (at 23 °C (73 °F))?

Go to Step 4.

Replace the HO2 sensor #1 with a new one.

4

HO2 sensor output voltage check

- 1) Connect the ECM coupler and HO2 sensor #1 coupler.
- 2) Warm up the engine enough.
- 3) Measure the HO2 sensor #1 output voltage between the B wire and Gr wire, in idling condition.
- 4) If OK, measure the HO2 sensor #1 output voltage while holding the engine speed at 6000 r/min.

Replace the ECM with a known good one, and inspect it again.

Replace the HO2 sensor #1 with a new one.



Is voltage approx. 0.6 V or less (at idle speed) and approx. 0.6 V or more (at 6000 r/min)?