

ENGINE (DIAGNOSTICS)(H4SO) > Diagnostic Procedure with Diagnostic Trouble Code (DTC)

DTC P0031 HO2S HEATER CONTROL CIRCUIT LOW (BANK 1 SENSOR 1)

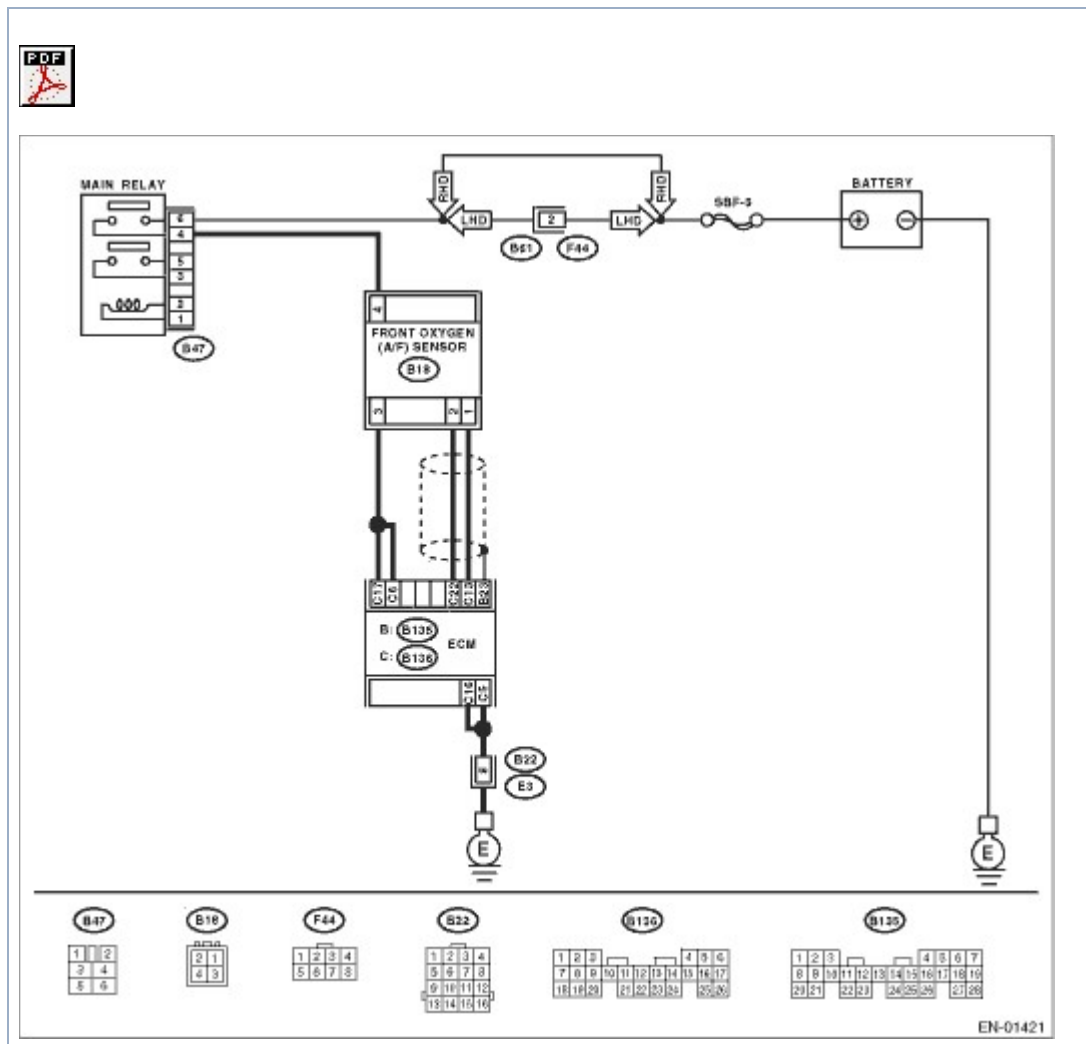
DTC DETECTING CONDITION:


Immediately at fault recognition



CAUTION:

After repairing or replacing the defective part, perform the Clear Memory Mode  and Inspection Mode .

WIRING DIAGRAM:



STEP	CHECK	YES	NO
<p>1.CHECK POWER SUPPLY TO FRONT OXYGEN (A/F) SENSOR.</p> <p>1) Turn the ignition switch to OFF.</p> <p>2) Disconnect the connector from front oxygen (A/F) sensor.</p> <p>3) Turn the ignition switch to ON.</p> <p>4) Measure the voltage between front oxygen</p>	<p>Is the voltage 10 V or more? </p>		<p>Repair the power supply line.</p> <p>NOTE: In this case, repair the following item:</p> <ul style="list-style-type: none"> • Open circuit of harness between main relay and front oxygen (A/F) sensor connector • Poor contact in front oxygen (A/F) sensor connector

STEP	CHECK	YES	NO
(A/F) sensor connector and engine ground. Connector & terminal (B18) No. 4 (+) — Engine ground (—):			<ul style="list-style-type: none"> ● Poor contact of main relay connector
2.CHECK HARNESS BETWEEN ECM AND FRONT OXYGEN (A/F) SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connectors from ECM. 3) Measure the resistance of harness between ECM and front oxygen (A/F) sensor connector. Connector & terminal (B136) No. 6 — (B18) No. 3: (B136) No. 17 — (B18) No. 3:	Is the resistance less than 1 Ω?		Repair the open circuit of harness between ECM and front oxygen (A/F) sensor.
3.CHECK GROUND CIRCUIT FOR ECM. Measure the resistance of harness between ECM and chassis ground. Connector & terminal (B136) No. 5 — Chassis ground: (B136) No. 16 — Chassis ground:	Is the resistance less than 5 Ω?		Repair the harness and connector. NOTE: In this case, repair the following item: <ul style="list-style-type: none"> ● Open circuit of harness between ECM and engine ground ● Poor contact in ECM connector ● Poor contact of coupling connector
4.CHECK FRONT OXYGEN (A/F) SENSOR. Measure the resistance between front oxygen (A/F) sensor connector terminals. Terminals No. 4 — No. 3:	Is the resistance 1 Ω?	Repair the poor contact of ECM connector.	Replace the front oxygen (A/F) sensor. 