

DIAGNOSTIC PROCEDURE FOR "AT OIL TEMP" WARNING LIGHT
 AUTOMATIC TRANSMISSION (DIAGNOSTICS)

12. Diagnostic Procedure for "AT OIL TEMP" Warning Light

A: "AT OIL TEMP" WARNING LIGHT DOES NOT COME ON OR GO OFF

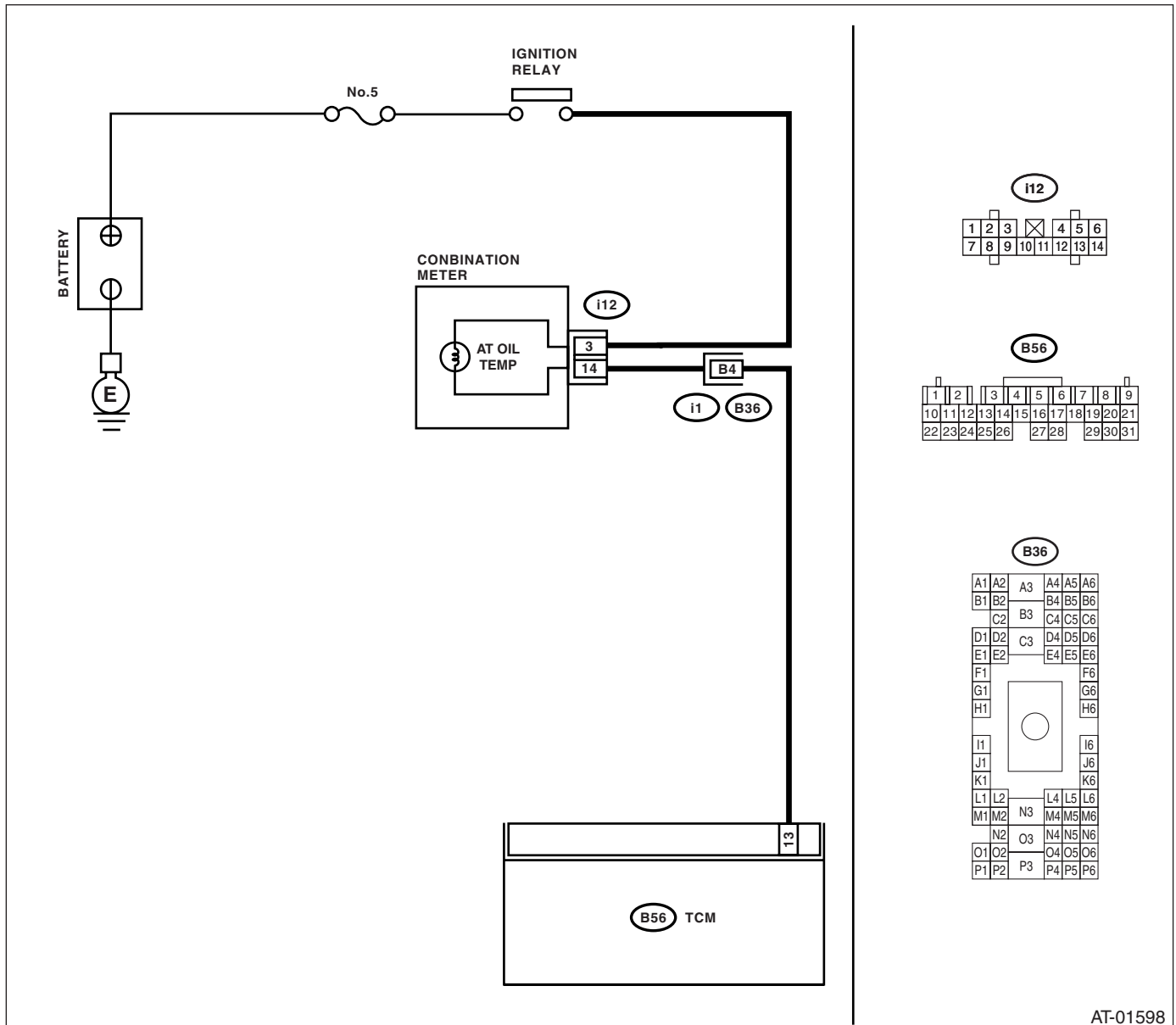
DIAGNOSIS:

AT OIL TEMP warning light circuit is open or shorted.

TROUBLE SYMPTOM:

- When the ignition switch is turned to ON (engine OFF), AT OIL TEMP warning light does not turn on.

WIRING DIAGRAM:



AT-01598

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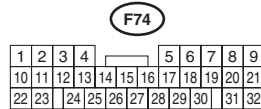
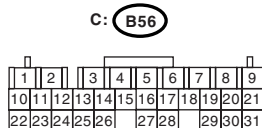
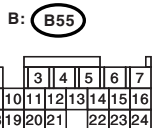
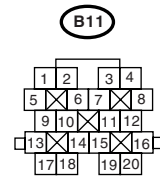
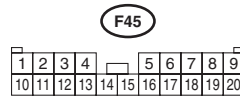
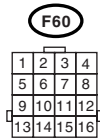
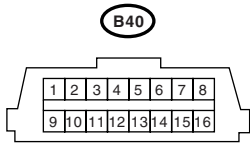
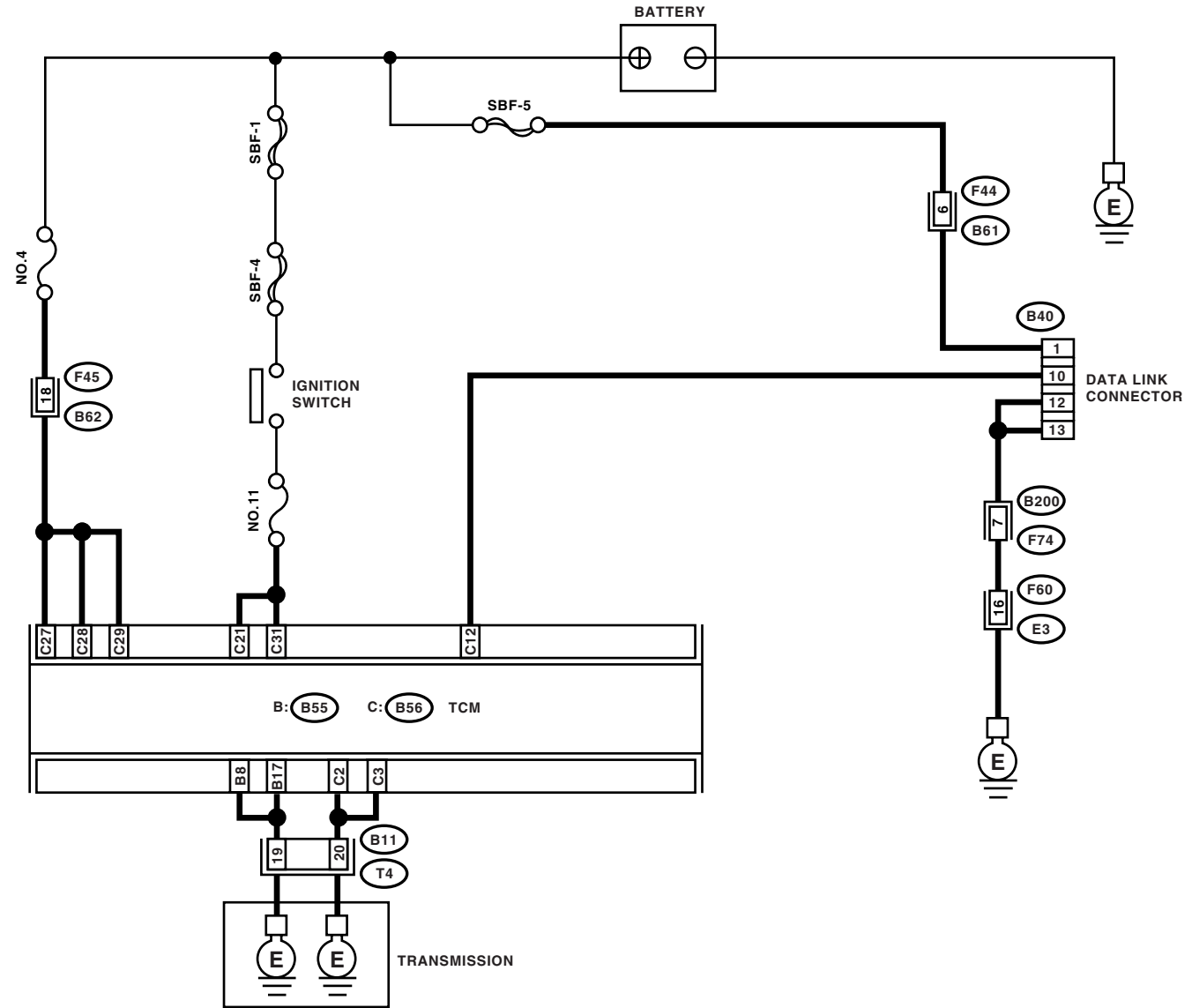
Step	Check	Yes	No	
1	CHECK AT OIL TEMP WARNING LIGHT. Turn the ignition switch to ON (engine OFF).	Does the AT OIL TEMP warning light turn on?	Go to step 3.	Go to step 2.
2	CHECK FUSE (No. 5). Remove the fuse (No. 5).	Is the fuse (No. 5) blown out?	Replace the fuse (No. 5). If replaced fuse (No. 5) is blown out easily, repair short circuit in harness between fuse (No. 5) and combination meter.	Go to step 3.
3	CHECK HARNESS CONNECTOR BETWEEN COMBINATION METER AND IGNITION SWITCH. 1) Turn the ignition switch to OFF. 2) Remove combination meter. 3) Turn the ignition switch to ON (engine OFF). 4) Measure the voltage between combination meter connector and chassis ground. Connector & terminal (i12) No. 3 (+) — Chassis ground (-):	Is the voltage more than 9 V?	Go to step 4.	Repair the open circuit in harness between combination meter and battery.
4	CHECK OPEN CIRCUIT OF HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from TCM. 3) Measure the resistance of harness between combination meter and TCM. Connector & terminal (B56) No. 13 — (i12) No. 14:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit in harness between TCM and combination meter, and poor contact in coupling connector.
5	CHECK COMBINATION METER. Measure the resistance between combination meter connector and chassis ground. Connector & terminal (i12) No. 14 (+) — Chassis ground (-):	Is the resistance more than 1 M Ω ?	Go to step 6.	Repair the short circuit in harness between TCM and combination meter.
6	CHECK INPUT SIGNAL FOR TCM. 1) Connect the connector to combination meter. 2) Turn the ignition switch to ON (engine OFF). 3) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B56) No. 13 (+) — Chassis ground (-):	Is the voltage more than 9 V?	Replace the TCM. <Ref. to 4AT-77, Transmission Control Module (TCM).>	Replace the combination meter. <Ref. to IDI-13, Combination Meter Assembly.>

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B: CHECK POWER SUPPLY AND GROUND LINE

WIRING DIAGRAM:



AT-01599

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Step	Check	Yes	No
1 CHECK BATTERY TERMINAL. Turn the ignition switch to OFF.	Is there poor contact in battery terminal?	Repair or tighten the battery terminal.	Go to step 2.
2 CHECK POWER SUPPLY OF TCM. 1) Disconnect the connector from TCM. 2) Turn the ignition switch to ON. 3) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B56) No. 27 (+) — Chassis ground (-): (B56) No. 28 (+) — Chassis ground (-): (B56) No. 29 (+) — Chassis ground (-):	Is the voltage 10 — 13 V?	Go to step 4.	Go to step 3.
3 CHECK FUSE (NO. 4). 1) Turn the ignition switch to OFF. 2) Remove the fuse (No. 4).	Is the fuse (No. 4) blown out?	Replace the fuse (No. 4). If replaced fuse (No. 4) has blown out easily, repair short circuit in harness between fuse (No. 4) and TCM.	Repair the open circuit in harness between fuse (No. 4) and TCM, or fuse (No. 4) and battery, and poor contact in coupling connector.
4 CHECK IGNITION POWER SUPPLY CIRCUIT. 1) Turn the ignition switch to ON (engine OFF). 2) Measure the ignition power supply voltage between TCM connector and chassis ground. Connector & terminal (B56) No. 21 (+) — Chassis ground (-): (B56) No. 31 (+) — Chassis ground (-):	Is the voltage 10 — 13 V?	Go to step 6.	Go to step 5.
5 CHECK FUSE (NO. 11). Remove the fuse (No. 11).	Is the fuse (No. 11) blown out?	Replace the fuse (No. 11). If replaced fuse (No. 11) has blown out easily, repair short circuit in harness between fuse (No. 11) and TCM.	Repair the open circuit in harness between fuse (No. 11) and TCM, or fuse (No. 11) and battery, and poor contact in coupling connector.
6 CHECK HARNESS CONNECTOR BETWEEN TCM AND TRANSMISSION. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from TCM and transmission. 3) Measure the resistance of harness between TCM and transmission connector. Connector & terminal (B55) No. 8 — (B11) No. 19: (B55) No. 17 — (B11) No. 19: (B56) No. 2 — (B11) No. 20: (B56) No. 3 — (B11) No. 20:	Is the resistance less than 1 Ω ?	Go to step 7.	Repair the open circuit in harness between TCM, transmission harness connector, and poor contact in coupling connector.
7 CHECK HARNESS CONNECTOR BETWEEN TRANSMISSION AND TRANSMISSION GROUND. Measure the resistance of harness between transmission and transmission ground. Connector & terminal (T4) No. 19 — Transmission ground: (T4) No. 20 — Transmission ground:	Is the resistance less than 1 Ω ?	Go to step 8.	Repair the open circuit in harness between transmission and transmission ground.

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	Step	Check	Yes	No
8	CHECK POOR CONTACT IN CONNECTORS.	Is there poor contact in TCM power supply, ground line and data link connector?	Repair the connector.	Replace the TCM. <Ref. to 4AT-77, Transmission Control Module (TCM).>

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MEMO: