TROUBLESHOOTING

Diesel Electrical System Diagnosis (Engine does not start cold)

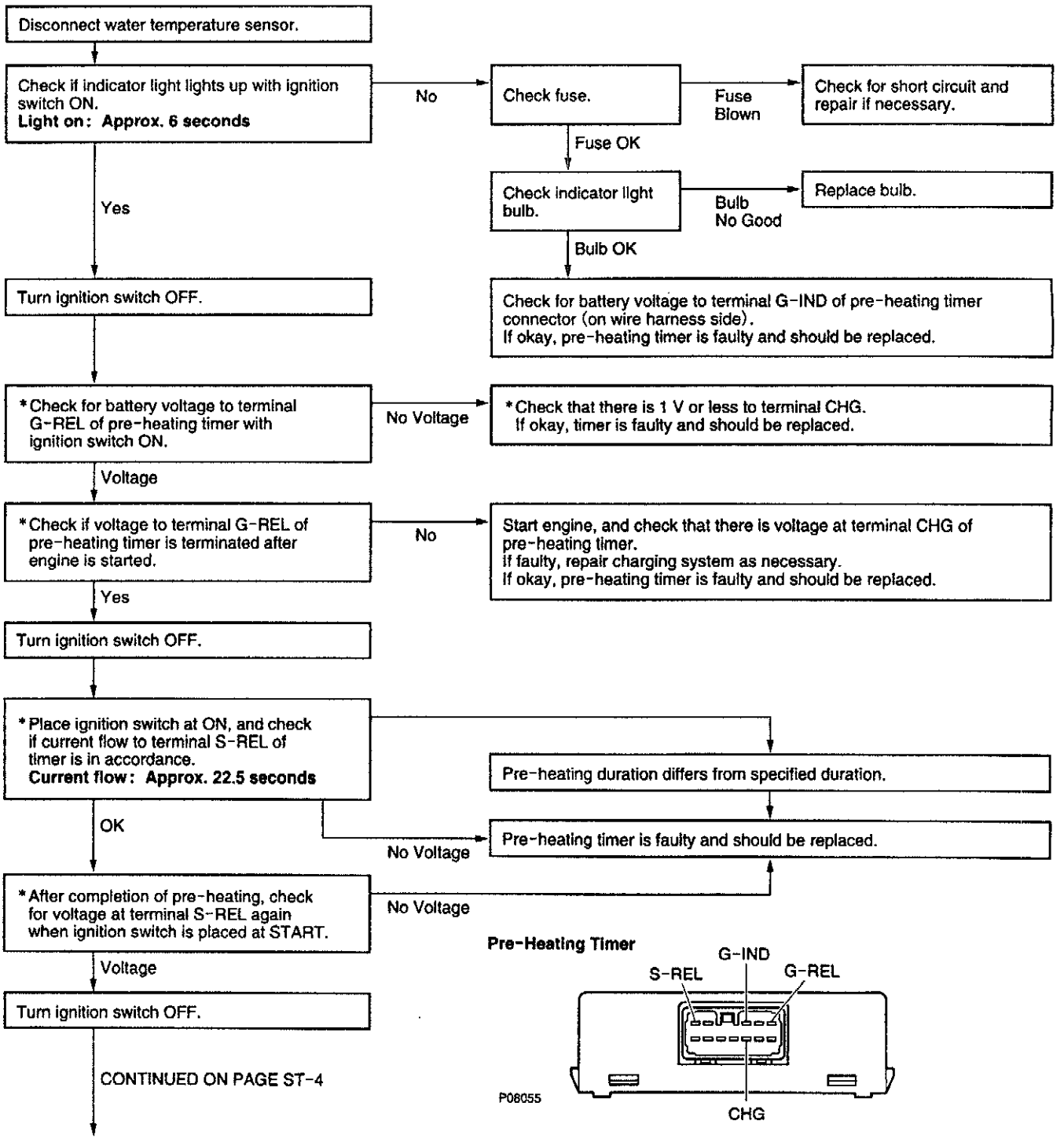
ST0FN-01

HINT:

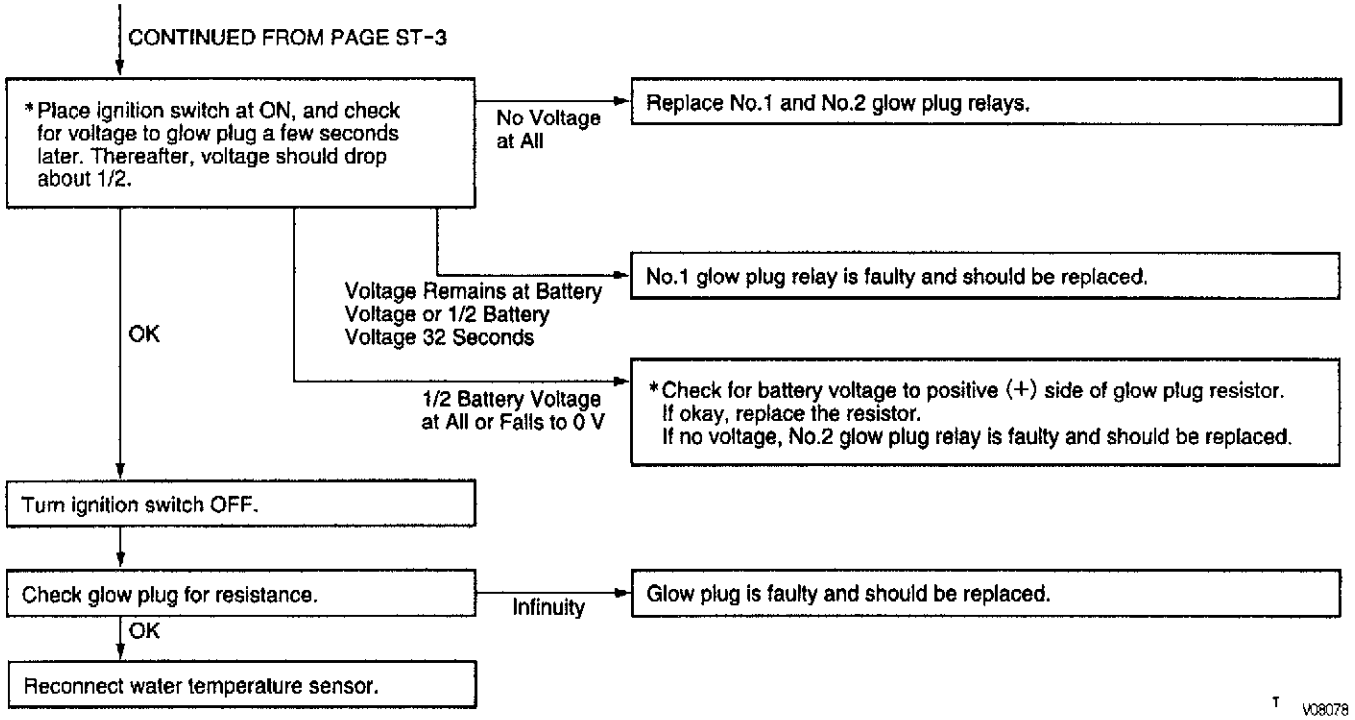
- Battery voltage at 12 V — Ignition switch OFF.
- Engine cranks normally.
- Fusible link okay.
- Check the voltage marked with an asterisk (*) just as the ignition switch is placed at ON because the voltage will change.

ST

PRE—HEATING SYSTEM (Super Glow Type/with Resistor)

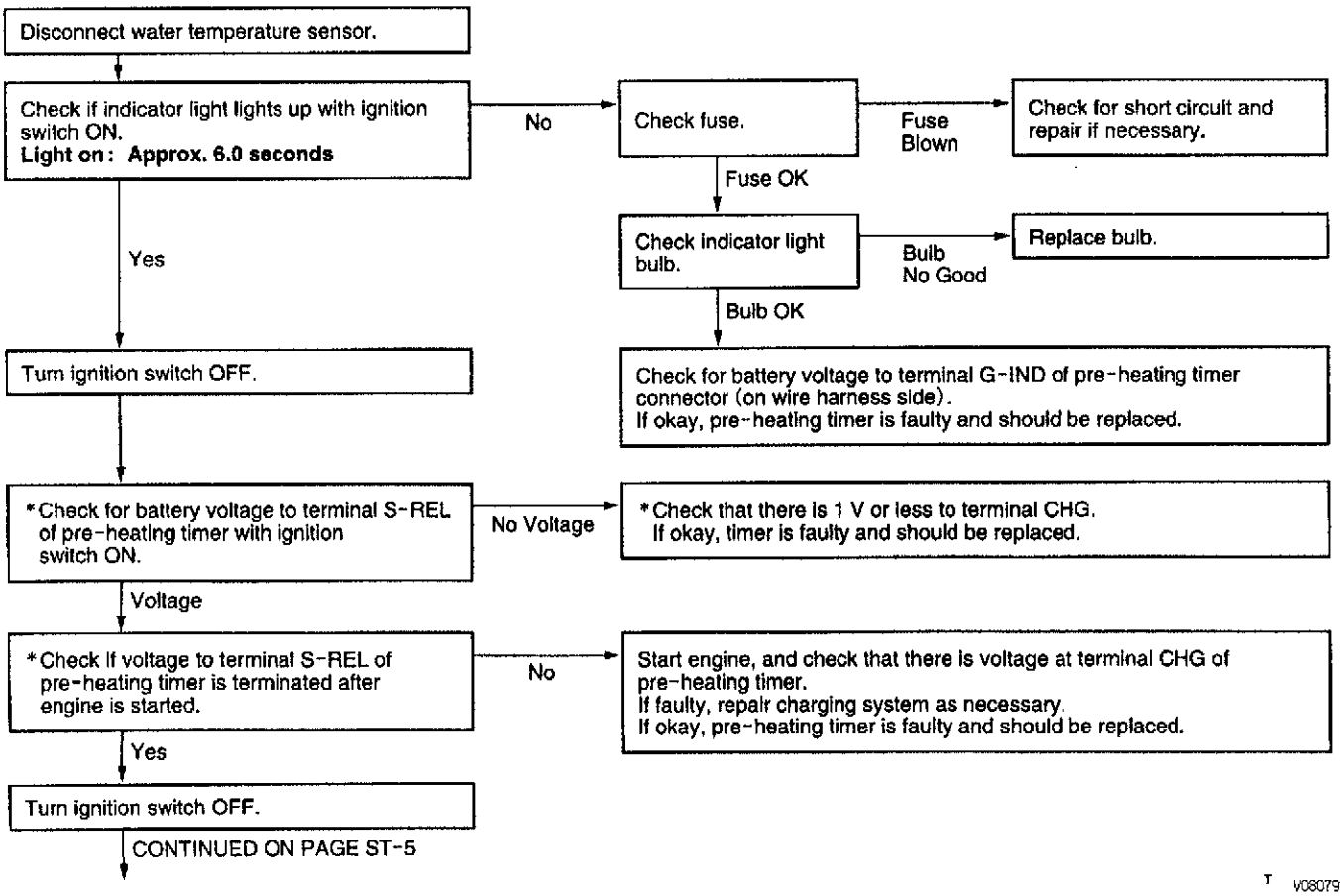


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PRE—HEATING SYSTEM (Super Glow Type/without Resistor)



T V08079

CONTINUED FROM PAGE ST-4

* Place starter switch at ON and check if current flow to terminal S-REL of pre-heating timer is in accordance.
Current flow: 120 seconds

→ Pre-heating duration differs from specified duration.

OK

No Voltage → Pre-heating timer is faulty and should be replaced.

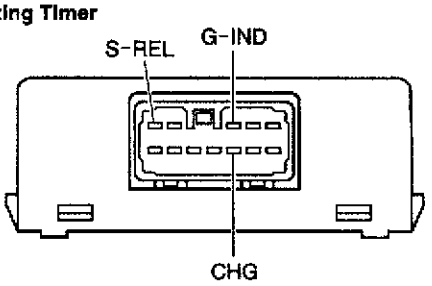
* After completion of pre-heating, check for voltage at terminal S-REL again when ignition switch is placed at START.

No Voltage

Voltage

Turn ignition switch OFF.

Pre-Heating Timer



* Place ignition switch at ON and check for voltage to glow plug.

No Voltage → Check and replace glow plug relay.

OK

No Voltage → Check and replace glow plug.

Reconnect water temperature sensor.

T V08080

FUEL CUT SOLENOID VALVE

With ignition switch turned ON, check for fuel cut solenoid valve operation noise (clicking sound) while repeatedly connecting and disconnecting fuel cut solenoid valve.

Noise → Fuel cut solenoid valve okay.

No Noise

Check fuse.

Fuse Blown → Check for short circuit, and repair as necessary.

Fuse OK

Apply battery voltage directly to solenoid, and check for noise.

Noise → Check wire harness from fuse to fuel cut solenoid.

No Noise

Replace fuel cut solenoid valve.

T V07859