ENGINE MECHANICAL

TROUBLESHOOTING

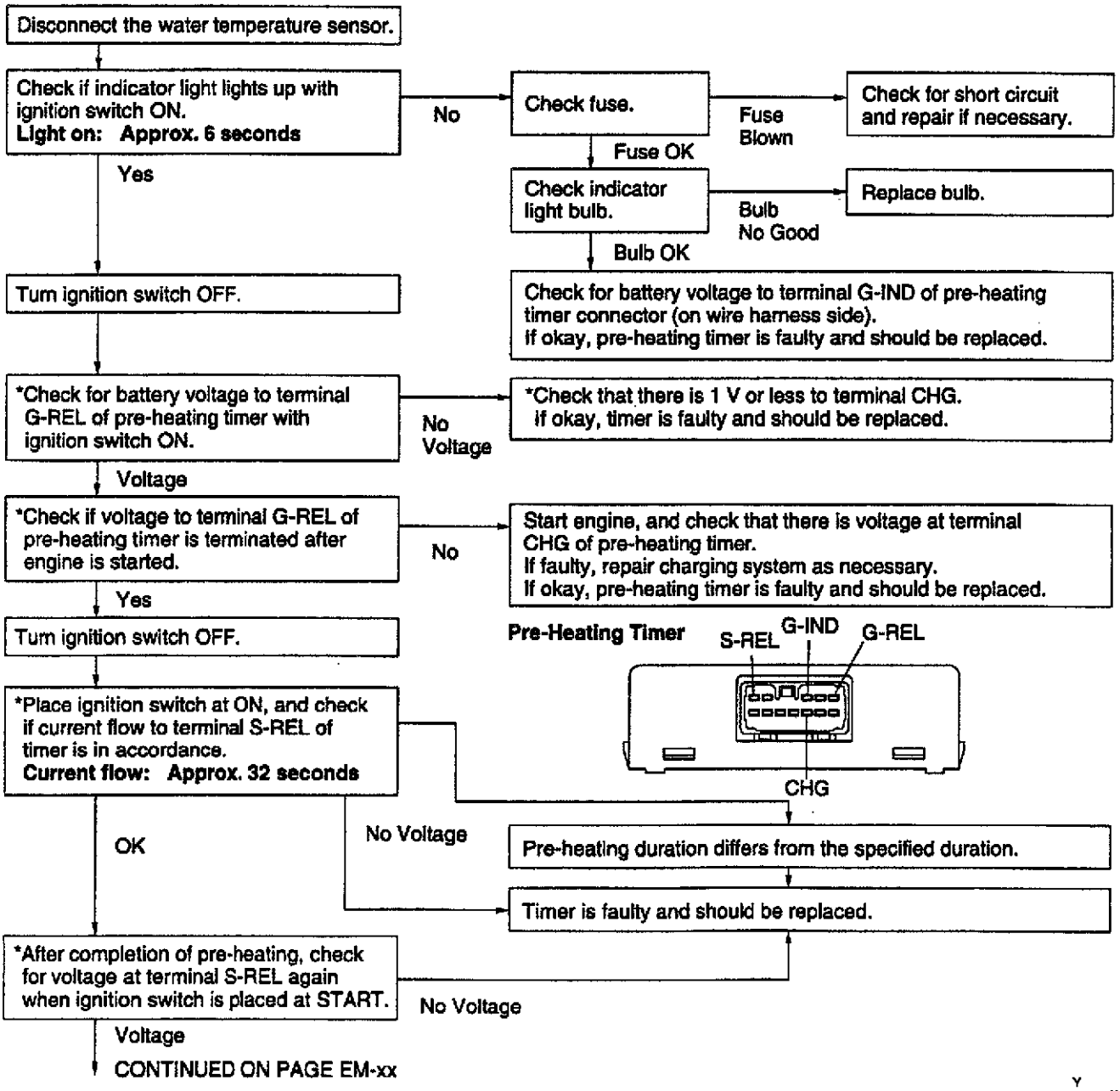
Diesel Electrical System Diagnosis (Engine does not start cold)

EG

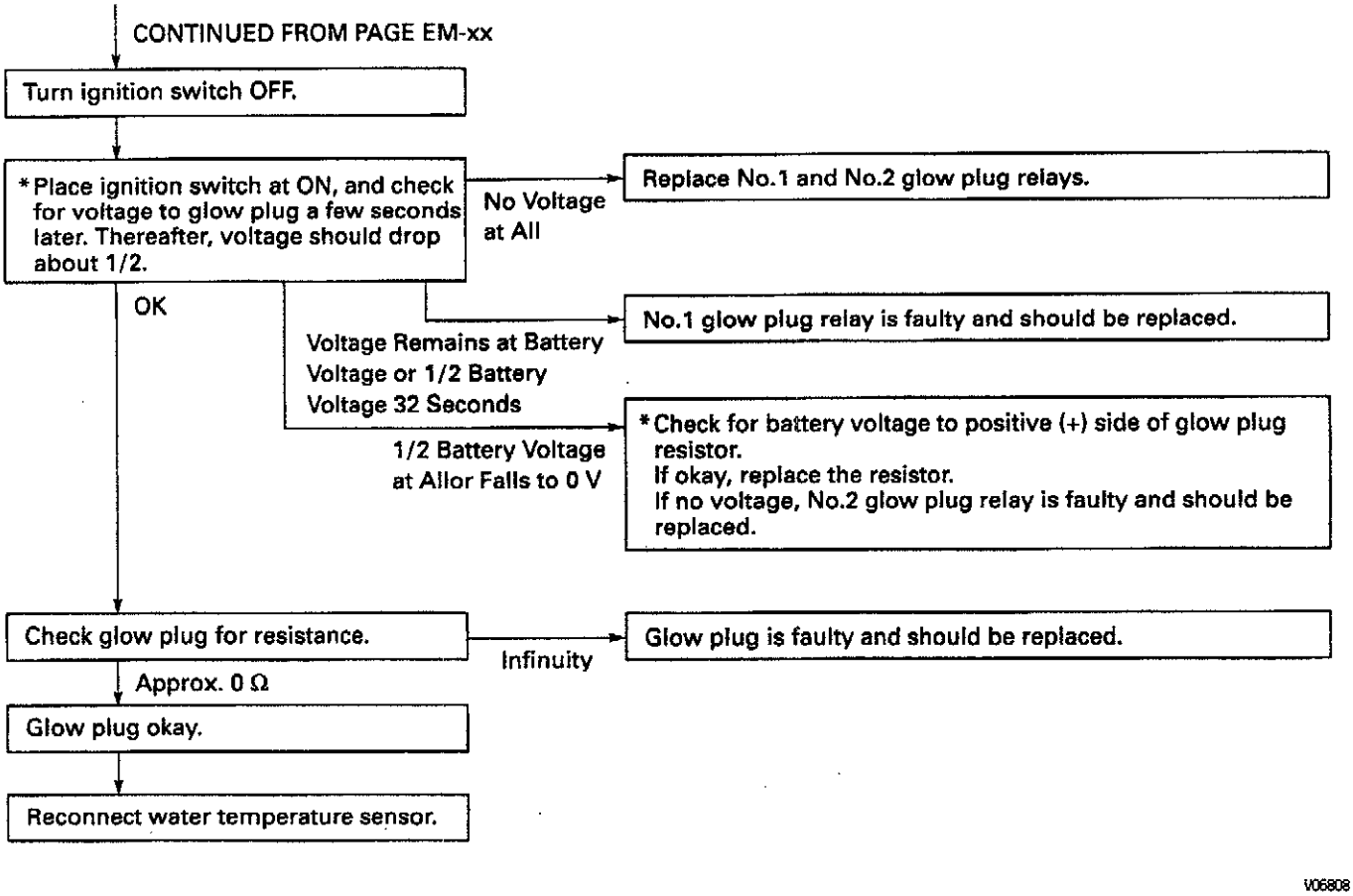
HINT:

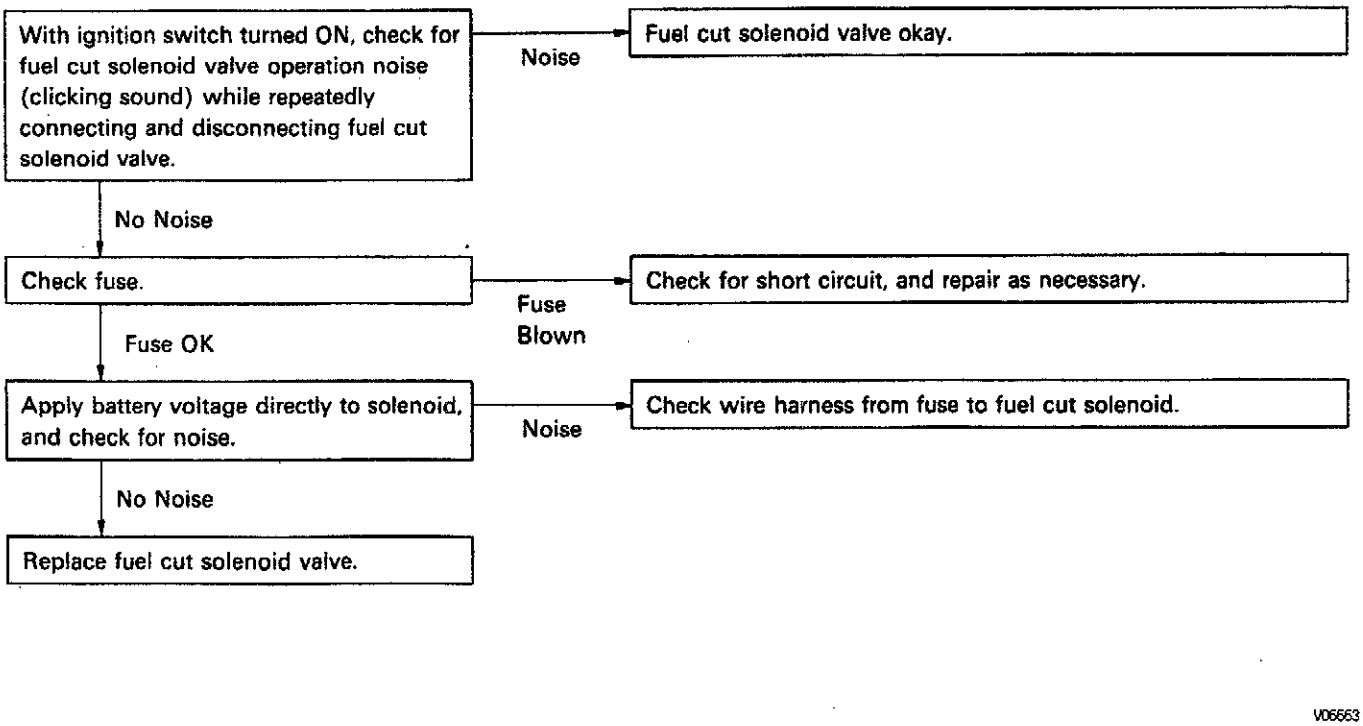
- Battery voltage at 12 V — Ignition switch OFF.
- Engine cranks normally.
- Fusible link okay.
- Check the voltage marked with an asterisk (*) just as the ignition switch is placed at ON because the voltage will change.

PRE—HEATING SYSTEM (Super Glow Type)



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V07040


CONTINUED FROM PAGE EM-xx
Turn ignition switch OFF.
* Place ignition switch at ON, and check for voltage to glow plug a few seconds later. Thereafter, voltage should drop about 1/2.
No Voltage at All
Replace No.1 and No.2 glow plug relays.
OK
Voltage Remains at Battery Voltage or 1/2 Battery Voltage 32 Seconds
No.1 glow plug relay is faulty and should be replaced.
1/2 Battery Voltage at Allor Falls to 0 V
* Check for battery voltage to positive (+) side of glow plug resistor.
If okay, replace the resistor.
If no voltage, No.2 glow plug relay is faulty and should be replaced.
Check glow plug for resistance.
Infinuity
Glow plug is faulty and should be replaced.
Approx. 0 Ω
Glow plug okay.
Reconnect water temperature sensor.
V06808


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.
V06563