



Category: BlueHeat

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Description: BlueHeat - Installation of time delay relay to prevent MIL from illuminating.

Kit Part No.: 5001058A

Original equipment manufactured vehicle ECUs / PCMs are now equipped with OBDII (On Board Diagnostics ver.II). These are standard diagnostics the government mandated on all newer vehicles.

The manufacturer's set parameters in the ECU for fuel efficiency, emissions, and engine reliability. If the parameters are not met the ECU will trigger a diagnostic trouble code.

One of the checks the ECU makes is a comparison between the intake air temperature and the coolant temperature at engine startup. This check is only performed after the vehicle has been parked for a period of time (cold soak), approximately 8 to 10 hours. If the ECU calculates a significant difference between the intake air temperature and the coolant temperature after two consecutive ignition cycles DTC P0116 will set and the Malfunction Indicator Lamp (MIL) will illuminate. The ECU turns off the MIL after 3 consecutive ignition cycles that the diagnostic runs and does not fail.

Operation of the BlueHeat coolant heater (increasing coolant temperature) may cause DTC P0116 to set if the conditions for running the diagnostic are met. This occurrence can be eliminated by providing the ECU with an ignition ON signal prior to heater operation. Webasto recommends the use of a time delay relay to provide this ignition ON signal whenever the heater is activated.

Using the manufacturer's service instructions, locate the fused ignition output (RUN) circuit at the ignition switch, and connect the time delay relay as shown in Figure 1.

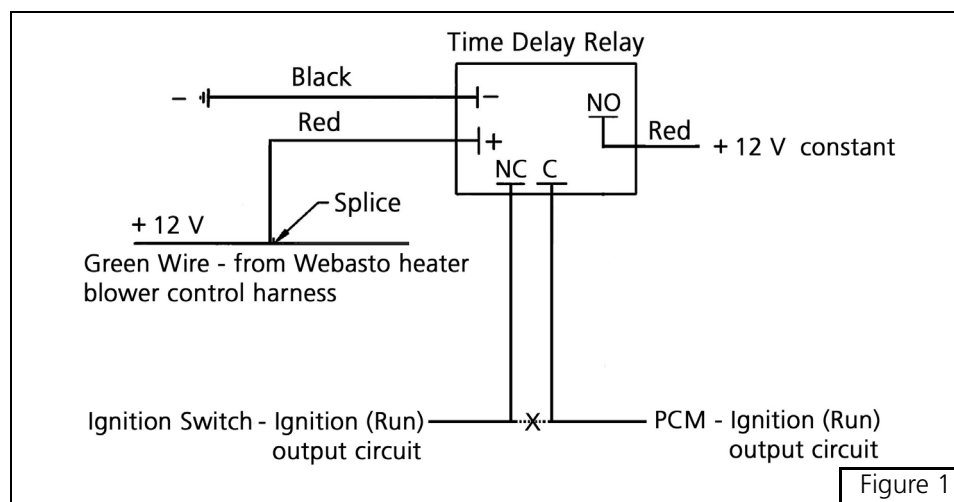


Figure 1