



**OWNER'S MANUAL
MANUAL CONTROLLER**

PROHEAT

1.0 Driver Control Panel (DCP) Manual Thermostat

The Driver Control Panel (DCP) is used to turn the heater ON/OFF.

1.1 Driver Control Panel Buttons

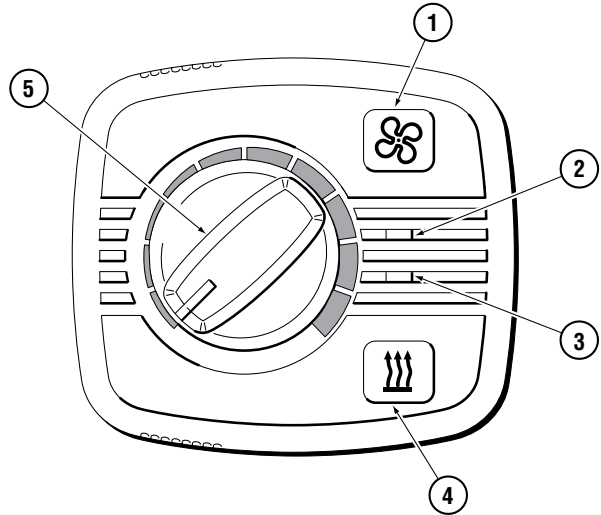


Figure 1. Driver Control Panel (DCP) Manual Thermostat

1. FAN Button — Fan On or Off
2. Orange Status LED Light
3. Red/Green Status LED Light
4. HEAT Button – Heat On or Off
5. TEMPERATURE / FAN Control Knob

Orange LED (item 2) on continuously	FAN Mode is Active
Orange LED (item 2) is flashing	Heater is in Purge (cool down)
Green LED (item 3) is flashing	HEAT Mode start sequence
Green LED (item 3) on continuously	HEAT Mode is in full output.
Green LED (item 3) is either flashing or on continuous and the Orange LED (item 2) is on continuously	The 30 minute timer is enabled during HEAT Mode
Red LED (item 3) on continuously	Voltage Error. Voltage is to low or high
Red LED (item 3) is Flashing a code	Heater has an error. See Heater Owner's Handbook for more info on fault codes.

The Proheat Air A2/A4 Manual Thermostat can be used in 2 operational modes:

1.2 HEAT MODE

In this mode the heater will heat up to and hold the selected temperature of the TEMP/FAN control knob on the DCP (fan speed is automatically controlled).

1.2.1 Switching the Heater ON

Set the TEMP/FAN control knob to the desired position and then start the heater by pressing the Heat Button and the Start Sequence will begin.

The Green LED will flash during the Start Sequence (about 2 minutes) and will remain illuminated after a successful start.

NOTICE

The heater always starts in the maximum heating output and transitions to the Temperature Control after the Start Sequence is completed.

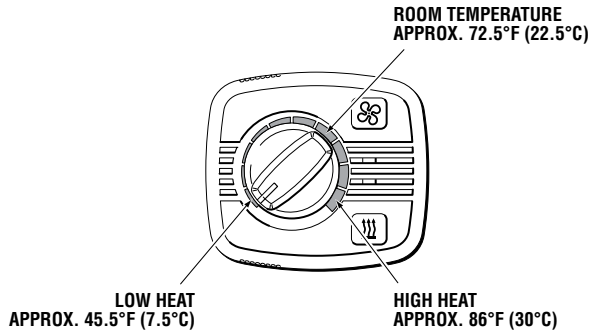


Figure 2. Heat Mode.

1.2.2 Switching the Heater OFF

When the heater is running pressing the Heat Button will start the Shut Down Sequence and turn OFF the heater. Shut Down Sequence is indicated by a flashing Orange LED. The flashing Orange LED will disappear when the shut down sequence is complete.

NOTICE

The heater will also automatically shut down at the end of the Pre-Programmed Run Time.

1.2.3 HEAT Mode Operation Time

HEAT Mode operation time depends on the position of the vehicle's engine ignition key.

Heater Operation with Ignition Key OFF

When the ignition key is OFF and the Heat Button is pressed, the heater will automatically begin the Start Sequence and run for duration of the Pre-Programmed Run Time. The factory default run time is 30 minutes.

Switching OFF the Pre-Programmed Run Time

Turning ON the ignition key or holding the Fan Button for longer than 5 seconds will transition the heater from the Pre-Programmed Run Time to a continuous run mode.

If the Fan Button is pressed a second time or if the ignition key is turned OFF, the heater will return to the Pre-Programmed Run Time.

Heater Operation with Ignition Key ON

When the ignition key is ON and the Heat Button is pressed, the heater will heat according to the set Temperature Control level. If the ignition key is then turned OFF, the heater will revert to Pre-Programmed Run Time of 30 minutes.

1.2.4 Permanent Override to Continuous Run Heat Mode

Connect the Green wire (on the back of the DCP) to a continuous battery positive source. See wiring diagram in the Installation manual.

This will permanently override the built in timer that will turn off the heater (in HEAT mode) after 30 minutes.

The heater will run until it is shut off manually by pressing the heat button.

1.3 FAN MODE

The heater fan can also be used without heat output for ventilation. Fan speed is user adjustable and run time is limited to 8 hours regardless of the ignition key position

1.3.1 Activating the Fan

Pressing the Fan Button will activate the fan. The Orange LED will be on continuous indicating that the fan is running. Fan speed is adjusted by turning the Temp/Fan control knob to the desired speed of 1-10.

1.3.2 Deactivating the Fan

Pressing the Fan Button will shut off the fan and the Orange LED will go out.

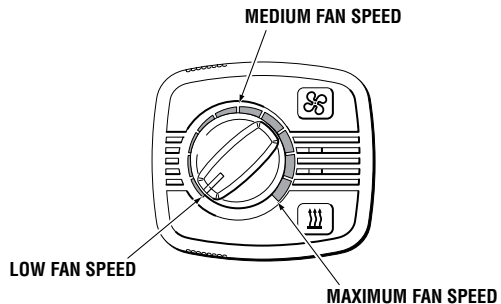


Figure 3. Fan Mode.



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