initial hook up to power).

Using dor best the present time of day (24 hour clock).

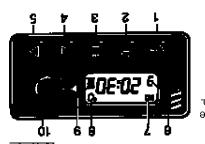
When the time stops flashing the time has been stored.

The weekday will now begin to flash.

Use dor be set the present weekday.

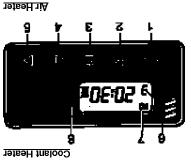
When the weekday stops flashing the weekday has been stored.

Push (4) button once. 12:00 will begin to flash (this will occur upon

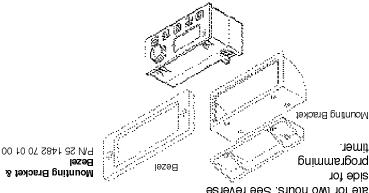


Setting Time and Weekday

Note: Upon connection to power the entire timer display will begin to flash. The heater will not function until the time is programmed.



- 10 Temperature set (air heater only)
 - 9 Heater "On" symbol
- 8 Air temperature display (optional)
 - Time and day display
 - 6 Memory location
 - Eorward scan
 - 4 Backward scan
 - 3 Heater "On"
 - 2 Preheat time set
 - Time set



secure to dash.

2 Use hardware supplied for connections.
3 Connect the switch harness to the heater and the connector at the heater and the connector and secured under dashburn for the minate wires. Attach using conton additored the conton tor the connector and the conton tor the connector and the conton tor the connector and the connector and the connector and the conton tor the connector and the connection and the connection and the connector and the connector and the connector and the connection and the conn

 Mount bezel into dash and insert timer or use Espar's optional mounting bracket and secure to dash.
 Use hardware supplied for

ate for two hours. See reverse timer is pre-set by Espar to opermanual operation. By default the tion, there is an on/off switch for automatically turning off. In addirun times up to 2 hours before advance, as well as an option for on time, up to 7 days in allows for pre-selection of turn form automatically. The timer fault codes in three digit number timer then displays any heater nostic circuit of the heater. The This timer connects to the diaginclude diagnostics capability. of the heater system and to means to control the operation designed to provide a simple The 7 Day Timer has been

Operating Instructions

7 Day Timer Instructions

7 Day Timer with Diagnostics Installation & Operating Instructions

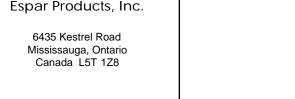


Timer only

P/N 22 1000 30 36 00 (coolant heater 12/24 volt) P/N 22 1000 30 40 00 (air heater 12/24 volt)

Timers with adaptor but no relay

P/N CA1 00 200 (coolant heater 12V) P/N CA1 00 201 (coolant heater 24V) P/N CA1 00 210 (air heater 12V) P/N CA1 00 211 (air heater 24V)



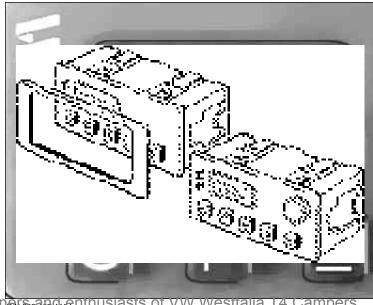
Canada (Tel): 905-670-0960

800-668-5676

Fax: 905-670-0728

U.S. (Tel): 800-387-4800

www.espar.com inquiries@espar.com



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Operating Instructions

Changing the Time or Day

Push and hold (9) button until the time display begins to flash. Continue to set the time as listed in setting time and weekday.

Using the Timer with the Vehicle Ignition "Off"

Push <u>(</u> button.

will appear on the display as well as the operation countdown timer. The running time is factory set to a maximum of 120 minutes. This running time can be reset once or permanently as desired.

Adjusting Preheat Time Once

Press W button.

The (will appear in the display and the preselected run time will appear in the display (maximum time of 120 minutes). Use the \square or \square to adjust the desired run time.

Adjusting the Heater Preheat Time Permanently

(Maximum Preheat Time of 120 minutes)

Push and hold (about 3 seconds) until the display lights up and flashes. Release button.

Use \square or \square to set the new fixed preheat time.

When the display goes off the new preheat time is set.

Note: At the end of a preheat cycle the timer will turn the heater off. The heater will complete a cool down cycle and turn itself off.

Using the Heater Manually with the Vehicle Accessory "On"

Push W button.

The (symbol will appear in the display next to the time of day. The time of day will remain displayed during ignition on operation. The heater will function continually as long as the vehicle ignition is "on". When the vehicle ignition is turned "off" the heater will continue to operate for an addtional 15 minutes.

The run time can be altered by pressing the \square or \square buttons.

The heater can be turned off by pressing (button.

Set Preheat Times into Memory

Press P button until the desired memory location is shown in the display (Three memory locations are available).

When the time stops flashing the time of day is set.

Using the or buttons set the desired day of the week.

When the day of the week stops flashing the day is set.

To Use Preset Start Times

Press the P button until the desired memory location appears in the display.

The heater will start at the day and time displayed.

The display will go off in 15 seconds. The memory location number will stay displayed (1, 2 or 3).

Note: When preset is chosen (this symbol will flash red.

To Turn Heater "Off" - All Modes

Press the (button once.

The heat signal to the heater will be turned "off".

The heater will do a normal cooldown and turn itself "off".

Note: When the vehicle ignition is turned "on" the time of day and day of the week will appear in the timer display. This will stay on as long as the vehicle ignition is "on".

Note: When the vehicle lights are turned "on" the timer backlight will come "on" also.

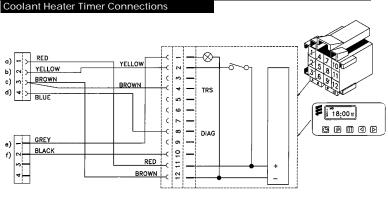
Note: This timer is equipped to display fault code numbers if the heater should shut down due to an operating fault. The fault code will show in the timer display next to the flashing heat wave symbol. This applies to all current model heaters when the blue diagnostic wire is connected.

Note: If the timer is purchased without the harness kit, the following heaters will need a load relay installed (D8LC, D7W, D12W, D24W and D30W), These heaters carry a load on the switch wire. (i.e. fuel metering pump or solenoid valve).

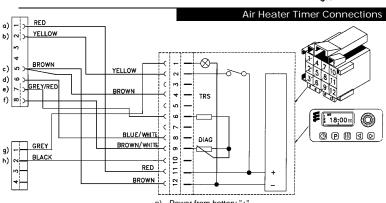
Note: An outside temperature sensor is available as an option

Wiring Connections at connector

Terminal 1	Power from vehicle dash lights
Terminal 2	Heater switch wire - yellow wire
Terminal 4	Connect to vehicle ground
Terminal 6	Temperature setting "+" (air only)
Terminal 8	Heater diagnostic lead - blue wire
Terminal 9	Temperature setting "-" (air only)
Terminal 10	To vehicle "ACC" accessory for continuous overnight use
Terminal 11	Positive power from heater - red "+"
Terminal 12	Ground lead from heater - brown "-"
Terminal 3,5,7	Left blank, not required



Power from battery"+" Switch control to heater



Switch control to heater

Power from battery "-"

Diagnostics from heater

To vehicle ignition accessories for continuous operation of heater

Power from battery"-" Diagnostics from heater

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