701 TIMER/MODULATOR WITH DIAGNOSTIC FUNCTION
Airtronic D2/4/5

KRUEGER LIMITED

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INTRODUCTION

Your 701 Timer/Modulator offers manual and programmable control along with temperature adjustment of your heater. If programmed when the heater is switched on by the Timer/Modulator it will run for the selected duration time. e.g. Heater on at 0700, duration time of one hour, the heater will switch off at 0800.

CLOCK SETTINGS (NOTE: ONLY POSSIBLE WHEN THE HEATER IS NOT IN OPERATION).

Press and hold the ⚑ key until the ⏱ symbol begins to flash. Use the △ and keys to set the correct time. Press and release the ⚑ key and the day box will begin to flash. Use the △ and ▽ key to set the correct day. Press and release the ⚑ key again to reset the clock to the start of the minute displayed. This can be used to coincide with a known time signal for instance.

SWITCHING ON THE HEATER(MANUAL START)

Press the ♨ key and the heat symbol ♨ will appear on the display. The heater will now commence its start up cycle and the display will change to show a one hour default heating countdown duration. This can be extended to

10 then 30 minute increments or longer to one hour, one hour 30 minutes and so on up to a maximum of eight hours or further to continuous operation by repeatedly pressing the ⚑ key. In continuous operation "C-:– " is displayed and alternates with the current time every five seconds.

SWITCHING OFF (MANUAL START)

The heater can be switched off at any time by pressing the ♨ key. The combustion process is ceased at this time but the heater will to continue to initiate its cooling cycle before shutting down approximately three minutes later.

VENTILATION

To activate ventilation mode, repeatedly press the ▽ key until the temperature ramp shows just one segment. Press and hold the ▽ key to activate the ventilation mode. To stop ventilation press the key △ . The ventilation duration if left running is a non adjustable one hour.

SWITCHING OFF (MANUAL START)

The heater can be switched off at any time by pressing the ♨ key. The combustion process is ceased at this time but the heater will to

continue to initiate its cooling cycle before shutting down approximately three minutes later.

ADJUSTING THE TEMPERATURE

By pressing the △ and ▽ keys the temperature ramp on the display can be lowered (lower cabin temperature required) or raised cabin temperature) to the desired level. The temperature can be altered at any time and the memory is retained when the heater is switched off.

DIAGNOSTIC READOUT

With the heater switched on, press and hold the ♨ key until the display shows "dATA", release the key and the display will show "AF−" and alternate to show the current fault code (if any). Each press of the △ key will scroll through the last five previously stored fault codes.

Typical fault codes and their descriptions:

10 = Overvoltage
Check charging system

11= Undervoltage
Check battery and connections

12= Overheating
Check ducting for obstructions

52= Safety time exceeded
Check fuel supply

To erase the stored fault codes press and hold both △ and ▽ keys simultaneously until "EEEE" is displayed then release. Press and release the ≋ key to exit diagnostic mode. For a full list of diagnostic codes contact your local dealer.

SETTING PROGRAMME TIMES

Press the ⧯ key and the P1 symbol will begin to flash. Pressing the P key will alternate the display between a preset time display and "OFF". With P1 flashing in the time display mode the desired programme time can be set using the △ and ▽ keys. Once the desired time has been selected and no keys are depressed for eight seconds the display will revert to the current time. During this eight second period pressing the ⧯ key will select P2 which can be used to select another programme time or be set t o"OFF" if not required. A further pressing of the ⧯ key will select the P3 symbol which can be set or turned off in the same manner as above.
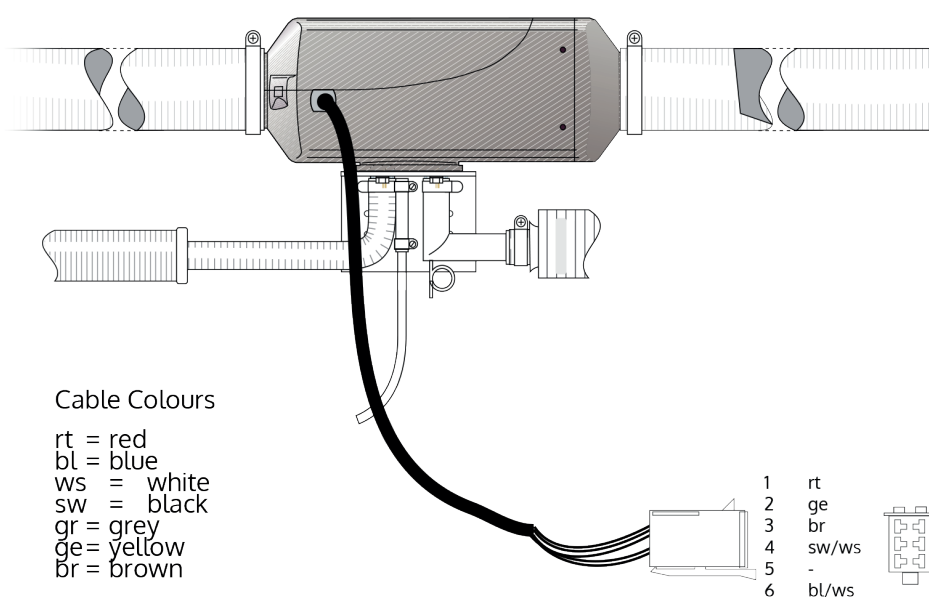
SETTING PROGRAMME DAYS

Having set programme times, P1, P2,P3 or all three press the ⧯ key. All three "P" symbols that have been selected will start flashing and a box will appear around one of the days. Press the P key to select "ON" if you require the selected day to be programmed or "OFF" if you do not wish it to be selected. To move onto the following day press the ⧯ key once again and select "ON" or "OFF" as before. Repeat this procedure for all seven days and to store these settings in the memory wait for eight seconds until the display reverts to the current time clock mode.

SETTING PROGRAMME DURATION

To set the desired heater duration, press and hold the P key and whilst holding repeatedly press the ⧯ key to select the desired time in increments of 10 then 30 minutes, then hours up to eight. Once the duration time has been selected it is not adjustable when the heater is in operation. Additionally continuous operation mode is not available in the programming mode.

SWITCHING ON THE HEATER (PROGRAMMED)

To activate your programme settings press the ⧯ key to show the P1,P2,P3 (to determine when the heater will switch off) or P̸ symbol to turn off all the settings. Note: If all presets and days have been selected to "OFF" pressing the P key will have no effect. When the heater has been switched on manually, it is possible to view which of the programmed times have been set and whether or not they have been activated. Press the P key to view and if any programmed time has been activated its corresponding P will flash. If no programmed times have been activated then P̸ flashes. Press the P key to activate or deactivate the programmed times as required. Wait eight seconds and the display will revert to manual operation countdown.
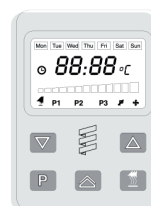
Cable Colours

rt = red
bl = blue
ws = white
sw = black
gr = grey
ge = yellow
br = brown

1	rt
2	ge
3	br
4	sw/ws
5	-
6	bl/ws

701 Timer Modulator with diagnostics and ventilation (Airtronic)

| gr | | ws |
| br/ws | | br |

Temperature Sensor