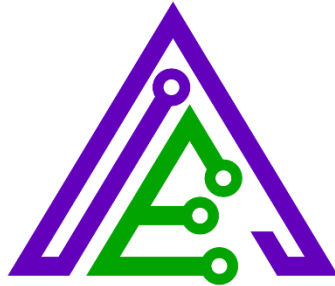


Big Square Panel 10 Button

Replacement Control Panel for Plug In Systems 10 Button Panel



APULJACK

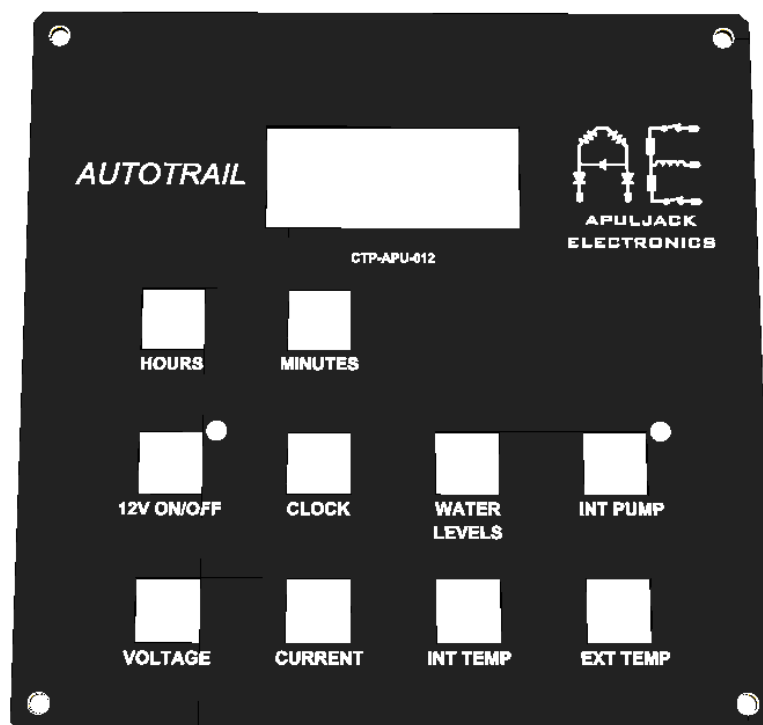
ELECTRONICS LTD

DESIGN AND REPAIR SPECIALISTS

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Model: Big Square Panel 10 Button, Part Number: CTP-APU-012-NE



1 General information

This panel replaces the old 10 button AutoTrail panel. The button layout is the same so should be familiar to users. The troublesome membrane switches have been replaced with proper buttons that give a positive click when pressed.

2 Installation

The new panel uses male blade connectors. These need to be connected to the original female blade connectors on the wiring loom from the old unit. The installer should move each connection over ensuring that the correct function goes to the correct pin.

The blade connections on the new panel and the typical wire colours are shown below:-

Connection Legend	Function/Board	Wiring Colours
Leisure battery (VAN)		Brn/Blue
0V		Wht/Org
Charger Input		Brn/Wht
Output to Fuse board		Brn/Re
Internal Pump Negative		Wht/Blk

WARNING: Incorrect connection could cause permanent damage to the unit.

3 Power input

When correct power is applied, the green LED on the back of the panel will be illuminated (the LED is quite dim to save power).

4 Button Functions

4.1 Water levels Button

Push the water levels button to show the amount of water in the fresh tank in 25% increments i.e. 0,25,50,75,100. See also Internal Pump.



4.2 Clock/Clock setting

The clock shows the current time when the decimal point is flashing. To set the time push the clock button - the clock will flash to show you are in SET mode. Use the HOURS and MINUTES buttons to change the Hours and Minutes to the correct time. The clock is in 24hr format only. Once the clock has been set, the display will return to the running clock display denoted by the decimal point flashing once a second.

4.3 Display dimming

When the clock button has NOT been pressed the HOURS and MINUTES buttons can be used to dim the display. Use the HOURS and Minutes buttons to increase and decrease the brightness, respectively.

4.4 Internal/External temperature

Push the INT or EXT TEMP buttons to show the internal or external temperatures. If a temperature probe is disconnected/open circuit, the display will show 'OPEN'.

4.5 Current

Push the CURRENT button to display the current, in amps, into or out of the selected battery. Current into the battery (charging) shows as positive and out of the battery (discharging) shows as negative.

4.6 Internal Pump

To turn on/off the internal pump, push the INT PUMP button. The light next to the internal pump button illuminates when the pump is on. If the fresh water level is at 0% then the display will warn that the tank is empty by showing 'NO H2O' (the pump will still switch on).

4.7 12V On/Off

To turn the system on push the 12V ON/OFF button - the LED next to the button will illuminate. If the button is pushed again the system will switch off and "OFF" will be shown briefly on the display. All outputs will be turned off and the display will go blank (the clock will still keep the correct time). The system is now in a low power standby mode and normal functions (e.g. pumps) cannot be selected. To turn the system back on, push the 12V ON/OFF button again. If you are not going to use the system for an extended period then you should isolate the power to the vehicle/panel to avoid it flattening the battery.

4.8 Voltage

Pushing the VOLTAGE button will show the voltage of the Leisure battery.



5 Low Voltage Alarm

If the voltage of the Leisure/Van battery is lower than 12.0V then the panel will switch to the Voltage display automatically. The display will show the value of the low voltage along with 'ERR' to alert the user to the low battery situation. To remedy this, charge your battery/turn on your charger.

6 Waste Full Alarm

If the waste tank is full, the display will show 'SOIL FULL'. Empty the waste tank to rectify this.

7 Default Display

Each of the displays will return to the Clock display after 5 seconds.

8 Display Dimming

Between 10PM and 6AM the display and any lit indicators are set to their lowest brightness to avoid disturbing people.

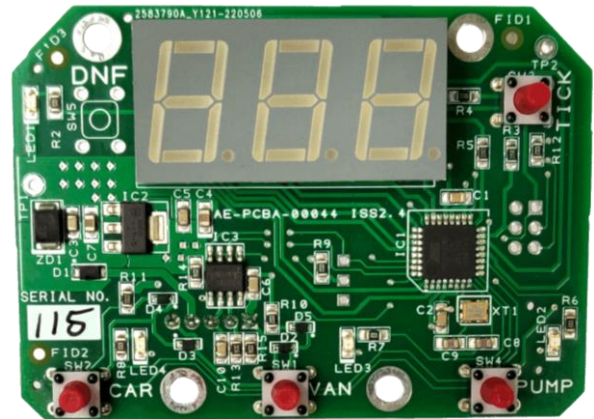


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AE 190

CTP-APU-006-NE

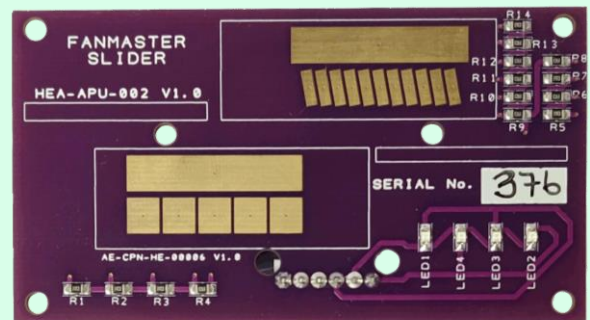
- Direct replacement for the Nord Electronica NE190 Control Panel
- Easy to fit to original fascia
- Replacement fascia overlay also available



Fanmaster Slider PCB

HEA-APU-002-NE

- Replacement PCB for Carver Fanmaster 2000, 4000 and 5500 heaters
- Includes 6x fixing clips
- Bright LED indicators
- High quality gold-plated contacts for improved reliability



AE Dometic Fridge Display

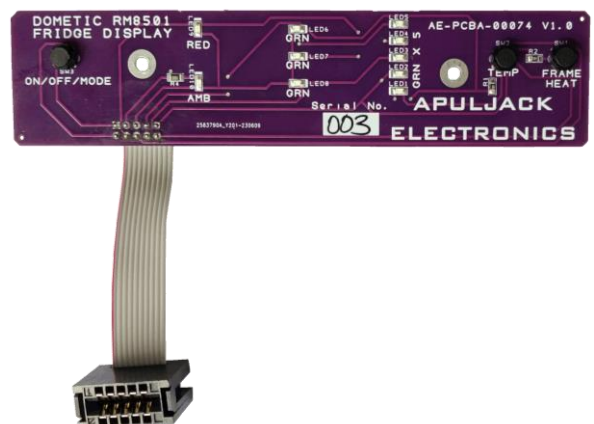
FRG-APU-002-NE – RMD 85x5 models

FRG-APU-005-NE – RMD85x1 models

FRG-APU-004-NE – RM8xx1 models

FRG-DOM-002-NE – RM8xx5 models

- Direct Replacement Displays for 8000 Series Dometic refrigerators
 - New ribbon cables available
 - Supplied with fitting instructions and new connectors
- FRG-DOM-001-RE - 8000 series Main PCBs repair service



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More from Apuljack Electronics

AE301/306 Ultra 6-Stage Charger

CHR-APU-002-NE – Ultra 6-stage

CHR-APU-008-NE – Lithium

- Direct replacement for PS301 and PS306 (PO120)
- Added ventilation to avoid overheating



AE276 Ultra 6-Stage Charger

CHR-APU-001-NE – Ultra 6-stage charger

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CHR-APU-010-NE – Fixed 13.8V output

- Direct replacement for PS276 and PS277



AE PLT-01 12V Fuse board

FSB-APU-002-NE

- Direct replacement for fuse boards found in Pilote Vehicles
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Toilet Reed Switch Sensor

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- Fully Waterproof
- Gel-filled connector



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CHR-APU-003-NE – 12 AMP

CHR-APU-004-NE – 18 AMP

CHR-APU-005-NE – 25 AMP

CHR-APU-006-NE – Fixed 13.8V output

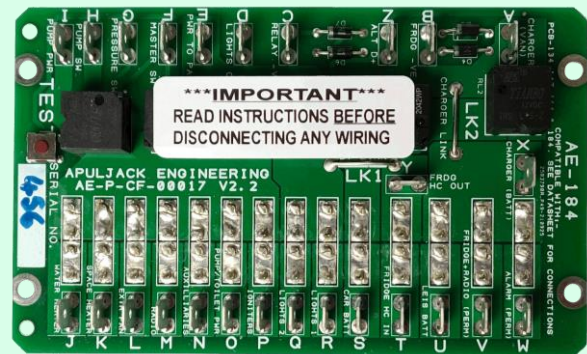
- Includes 'mains on' output
- Lead/Gel/AGM and Lithium charging profiles available
- Same footprint as legacy chargers
- Smart, adaptive charging profile to keep batteries in top condition



AE184-MD Fuse Board

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- Drop in replacement fuse board for BCA 134-MD, 147-MD, 164-MD and 184-MD PDUs.
- Designed with thicker PCB tracks than the BCA original to avoid overheating
- Higher current fuse holders
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Fanmaster Elements with Spacer

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HEA-APU-008-NE – Spacer ONLY

- Replacement elements that fit a wide variety of space heater models
- New elements can revive old space heaters; common faults of old heaters include:
 - Poor/no heat output
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 - Circuit breaker trips when elements are turned on
- If space heater has any of these symptoms, it will benefit from these replacement elements

Spacer unit included to extend the life of the elements



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