E790 45AMP BATTERY CHARGER 24V – 12V

24V – 12V BATTERY CHARGER 45AMP
Charge a 12V Battery from a 24V Battery System
HIGH SPECIFICATION
MANUFACTURED IN THE UK



THE BROWN CONTROL LEAD GIVES YOU THE OPTION TO SWITCH THE BATTERY CHARGER ON AND OFF USING A STANDARD LOW CURRENT SWITCH.

ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD DIRECTLY TO THE POSITIVE INPUT WHICH WILL ENABLE YOU TO RUN THE BATTERY CHARGER ALL THE TIME.

- **PART NO: E790**
- **TYPE: SWITCH MODE STEP DOWN BATTERY CHARGER**
- **CHARGING CURRENT: 45 AMP**
- **INPUT VOLTAGE: 18 – 30V DC**
- **OUTPUT VOLTAGE: 14V DC**
- **OVERLOAD PROTECTION: YES**
- **POLARITY PROTECTED: EXTERNAL FUSE**
- **HIGH TEMP PROTECTED: YES**
- **SHORT CIRCUIT PROTECTION: YES**
- **EFFICIENCY: > 90%**
- **DIMENSIONS: 320mm X 195mm X 55mm**
- **FIXING CENTRES: 300mm X 175mm (4 HOLE FIXING)**
- **HOLE SIZE: 6mm**
- **WEIGHT: 2495g**
- **CONSTRUCTION: 3 X E770-MOD3 15A CHARGER MOUNTED ON A SINGLE ALUMINIUM PLATE**

WHY NOT VISIT OUR WEBSITES TO VIEW THE OTHER PRODUCTS WE MANUFACTURE:

http://www.battery-management-voltage-converter.com
This site covers our:
- **Battery Management Systems**
- **Split Charge Controllers**
- **DC-DC Battery Chargers**
- **DC-DC Voltage Converters**
- **Trailer Voltage Converters**
- **Battery Status Indicators**
- **Voltage Sensitive Switches.**

http://www.eurogroup-gb.com
This site covers our Range of:
- **Water Level Monitors**
- **Water Level Probes**
- **Temperature Monitors**
- **Temperature Probes**
- **Air Conditioning Fan Control Units**
- **Vehicle Flashers and Interrupters**
- **Light Control Units**
- **Oil Level Monitors**
- **Oil Level Probes**
- **Hydraulic Control Units**
- **Audible Warning Devices**
- **Reversing Alarms**
- **Timers**
- **Vehicle Safety and Security Units**
- **Digital Speed Switches**
- **Solenoid Controllers**
- **Relays, Connectors, Lamps, Switches**
- **Earth Straps**
- **Looms and Wiring Harnesses**
- **Transformer and Coil Winding**
- **Mechanical Assembly**
- **Special Purpose Electrical / Electronic Assembly**
- **Encapsulation and Formal Coating**
- **Vacuum Formed Parts**
- **Printed Circuit Board Assembly**

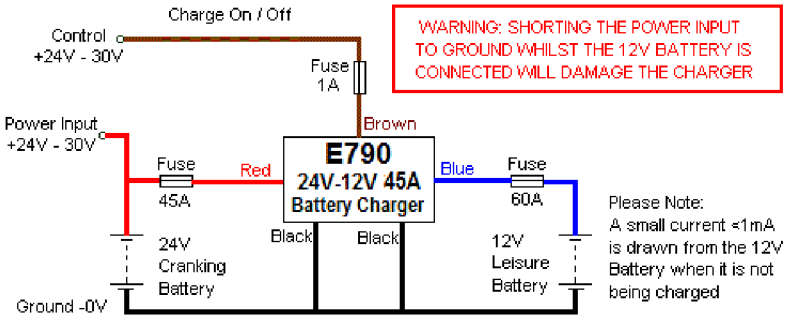
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BEFORE INSTALLATION YOU NEED TO PURCHASE:

RECOMMENDED MINIMUM CABLES SIZES:
INPUT (RED): 10.0mm² CONDUCTOR CROSS SECTION (80/0.40mm)
OUTPUT (BLUE): 10.0mm² CONDUCTOR CROSS SECTION (80/0.40mm)
GROUND (BLACK): 10.0mm² CONDUCTOR CROSS SECTION (80/0.40mm)
CONTROL (BROWN)): 1.0mm² CONDUCTOR CROSS SECTION (32/0.2mm)

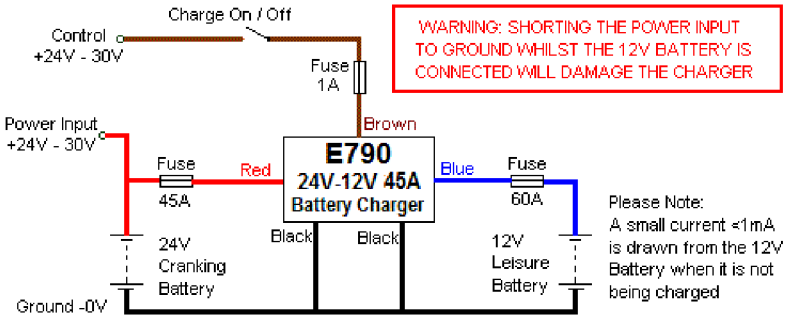
The Battery Charger can be wired in 3 ways:-

Wired as a fully automatic Charger
The Brown Control Wire connection is wired directly to the +ve Connection of the 24V Cranking (Donor) Battery to run the Charger all the time. The Unit automatically controls the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.



Wired to only operate when the engine is running
The Brown Control Wire connection is wired to any +ve connection which becomes live when the Ignition is switched on. The Unit automatically controls the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.

Wired as a manually operated Charger
The Brown Control Wire connection is wired via a Switch to the +ve Connection of the 24V Cranking (Donor) Battery to switch the Charger on and off manually.
In this case the Operator can control when the Battery Charger is switched on or off.
If left on, the Unit will automatically control the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.



INSTALLATION INSTRUCTIONS:

1. **CONNECT THE BLUE OUTPUT CONNECTION TO THE +VE CONNECTION OF THE 12V LEISURE / AUXILIARY BATTERY**

2. **CONNECT ONE BLACK CONNECTION TO THE –VE CONNECTION OF THE 12V BATTERY**

3. **CONNECT ONE BLACK CONNECTION TO GROUND, IE: THE VEHICLE CHASSIS OR TO THE –VE CONNECTION OF THE 24V BATTERY**

4. **CONNECT THE RED INPUT CONNECTION TO THE +VE CONNECTION OF THE 24V CRANKING BATTERY**

5. **THE BROWN CONTROL LEAD CONNECTION GIVES YOU THE OPTION TO SWITCH THE BATTERY CHARGER ON AND OFF USING A STANDARD LOW CURRENT SWITCH.**

6. **ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD CONNECTION DIRECTLY TO THE POSITIVE INPUT, IE: THE +VE CONNECTION ON THE 24V BATTERY, WHICH WILL ENABLE YOU TO RUN THE BATTERY CHARGER ALL THE TIME.**

7. **ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD DIRECTLY TO ANY +VE CONNECTION WHICH BECOMES LIVE WHEN THE IGNITION IS SWITCHED ON, WHICH WILL ENABLE YOU TO RUN THE BATTERY CHARGER ONLY WHEN THE ENGINE IS RUNNING**

IF IN DOUBT, PLEASE CONSULT AN AUTOMOTIVE ELECTRICIAN OR TELEPHONE US ON 01939 235073