E770 – MOD3 15AMP BATTERY CHARGER 24V – 12V

24V TO 12V BATTERY CHARGER 15AMP
Charge a 12V Battery from a 24V Battery System
HIGH SPECIFICATION
MANUFACTURED IN THE UK



- **PART NO: E770-MOD3**
- **TYPE: SWITCH MODE STEP DOWN BATTERY CHARGER**
- **CHARGING CURRENT: 15 AMP**
- **INPUT VOLTAGE: 18 TO 30V DC**
- **OUTPUT VOLTAGE: 14V DC**
- **OVERLOAD PROTECTION: YES**
- **POLARITY PROTECTED: EXTERNAL FUSE**
- **HIGH TEMP PROTECTED: YES**
- **SHORT CIRCUIT PROTECTION: YES**
- **EFFICIENCY: > 90%**
- **DIMENSIONS: 155mm X 70mm X 53mm**
- **FIXING CENTRES: 138mm X 40mm (4 HOLE FIXING)**
- **HOLE SIZE: 4.5mm**
- **WEIGHT: 447g**
- **CONSTRUCTION: ANODISED COOLING PROFILE**

OEM AND TRADE ENQUIRIES WELCOME

MODELS ALSO AVAILABLE: 30A / 45A / 60A / 75A / 90A

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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Web Site: www.eurogroup-gb.com OR www.battery-management-voltage-converter.com

BEFORE INSTALLATION YOU NEED TO PURCHASE:

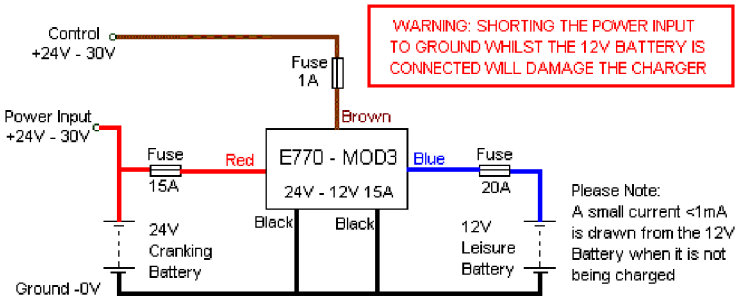
1 X 15A AUTOMOTIVE BLADE FUSE (COLOUR: BLUE)
1 X 20A AUTOMOTIVE BLADE FUSE (COLOUR: YELLOW)
1 X 1A AUTOMOTIVE BLADE FUSE (COLOUR: BLACK)
3 X INLINE FUSE HOLDER (TO TAKE BLADE FUSES)

RECOMMENDED MINIMUM CABLES SIZES:
INPUT (RED): 3mm² CONDUCTOR CROSS SECTION (44/0.3mm)
OUTPUT (BLUE): 3mm² CONDUCTOR CROSS SECTION (44/0.3mm)
GROUND (BLACK): 3mm² CONDUCTOR CROSS SECTION (44/0.3mm)
CONTROL (BROWN): 1.0mm² CONDUCTOR CROSS SECTION (32/0.2mm)

This Battery Charger allows you to charge a 12V Battery from a 24V Battery System.

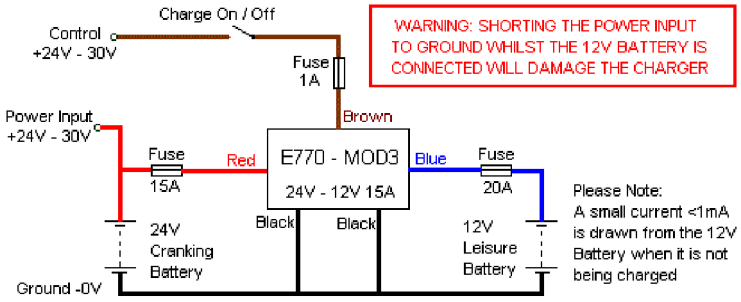
The Battery Charger can be wired in 3 ways:-

Wired as a fully automatic Charger (continuous running)
The Brown Control Wire 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 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 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 ONE BLACK LEAD TO THE -VE CONNECTION OF THE 12V BATTERY**

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

3. **CONNECT THE BLUE LEAD TO THE +VE CONNECTION OF THE 12V LEISURE / AUXILIARY BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 20A BLADE FUSE BETWEEN THE 12V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)**

4. **CONNECT THE RED LEAD TO THE +VE CONNECTION OF THE 24V CRANKING BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 15A BLADE FUSE BETWEEN THE 24V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)**

5. **THE BROWN CONTROL LEAD 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 DIRECTLY TO THE POSITIVE INPUT, IE: THE +VE CONNECTION ON THE 24V BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE 24V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT) 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 (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE +VE 24V CONNECTION AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT) 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