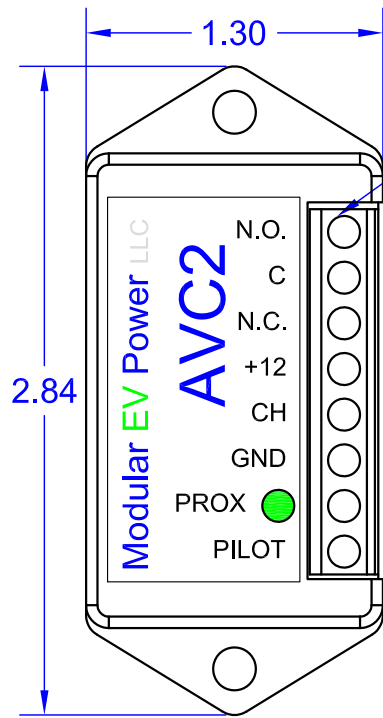
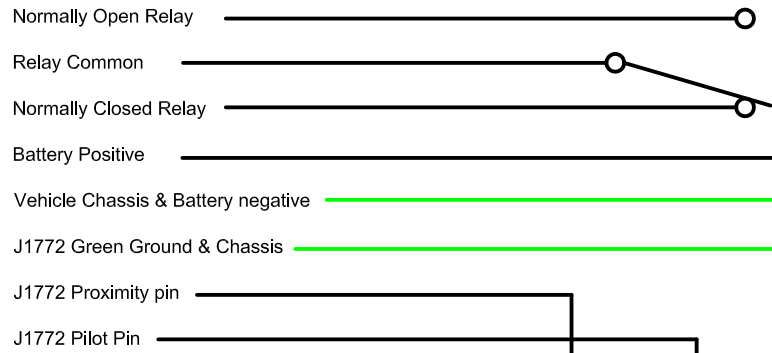


J1772 AVC2 Board



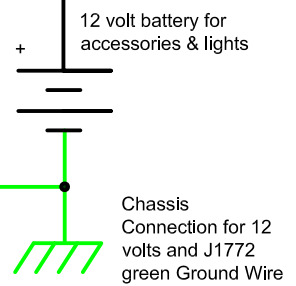
Screw Terminals



Relay in AVC2 board
0.3 Amp @125VA
1.0 Amp @30VDC

+12 must be fused
This load is <0.5ma when not latched
This load is <25ma when latched

The AVC1 and AVC2 are functionally identical. The AVC1 is a bare board and the AVC2 is in a plastic box.



Chassis Connection for 12 volts and J1772 green Ground Wire

Large Ground to car chassis

Power and Ground to onboard battery Charger

Operation:

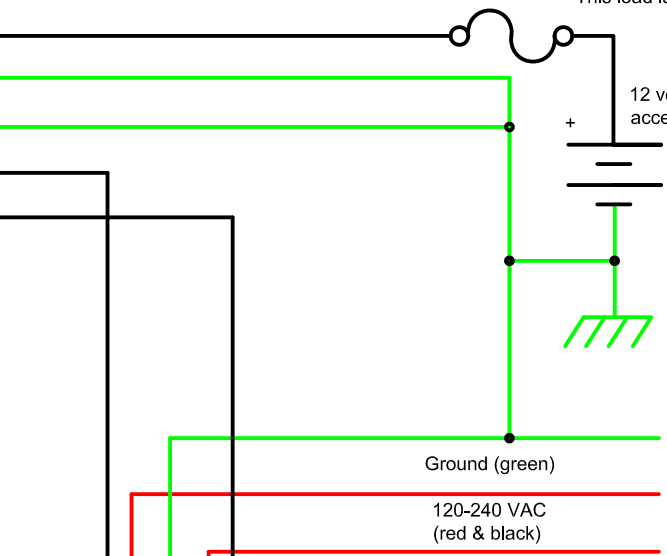
Apply +12 volt DC power. The unit may have switched power that enables the charge process or it may be left on continually. The power can come from any fused source.

Initially with the J1772 not mated the relay will be off and the NC (normally closed) contact will be connected to the relay common.

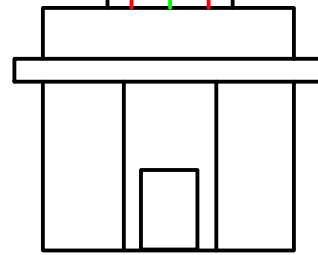
When the J1772 Cable is plugged into the inlet the pilot signal is changed immediately to connected. Still no power is available for charging while the connector is being mated.

Then the latch on the J1772 connector locks on the inlet, after the trigger is released the AVC1 board will use the proximity signal and activate the relay connecting common to Normally Open. The green PROX LED (proximity or latch) will indicate this. The pilot signal will also be changed to request power from the EVSE.

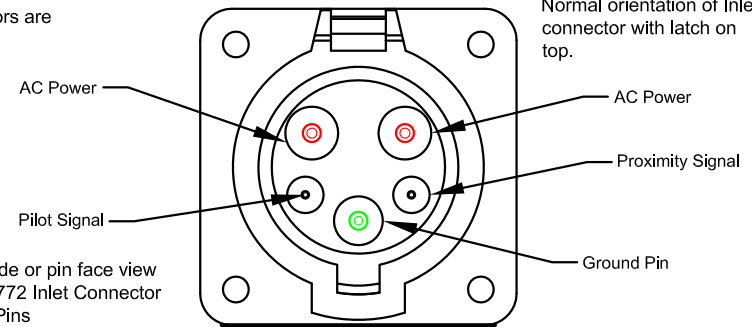
Later when it is time to disconnect, pressing the trigger to release the connector latch is sensed by the AVC1 board. The relay turns off, the connection returns to common to Normally closed, the green PROX LED goes off, and the pilot signal is changed back to CONNECTED and stops charging power. This all happens before the connectors are separated.



Signal	ITT J1772	Aluminum	Chinese
Ground	Green	Green	Yellow/Green
AC Power	Red	Red	Red L large
AC Power	Black	Black	Black N large
Pilot	Orange	Blue	Red CC small
Proximity	Blue	Violet	Black CP small



Normal orientation of Inlet connector with latch on top.



Outside or pin face view of J1772 Inlet Connector with Pins

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Wiring - J1772 AVC2 Board
Rev 1.2 - 6/24/2012

Drawing: J1772_AVC2_Wiring