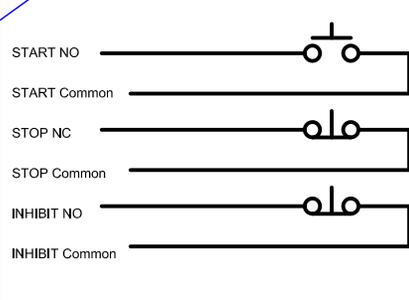
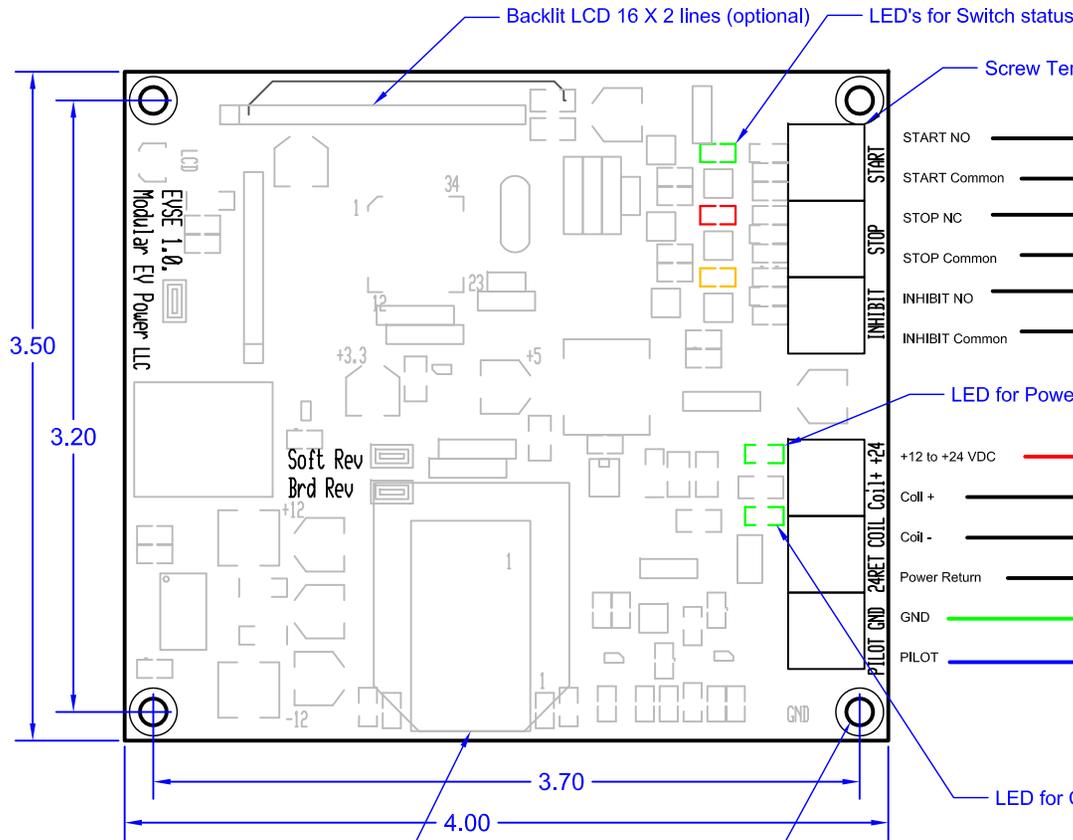


J1772 EVSE 3 Board



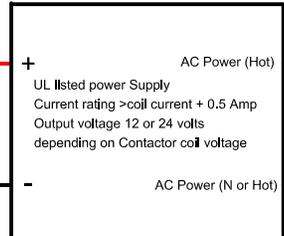
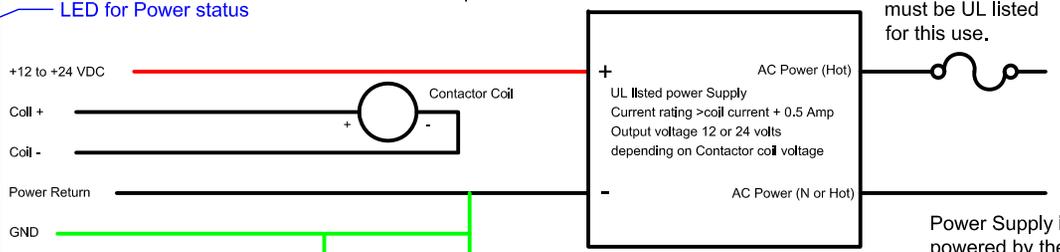
START Button (Optional)
Normally Open, 5V, 10mA
Push to enable charging

STOP Button (Optional)
Normally Closed, 5V, 10mA
Push to end charging

Inhibit Button (Optional)
Normally Closed, 5V, 10mA
OPEN to prevent operation
Jumper to enable.

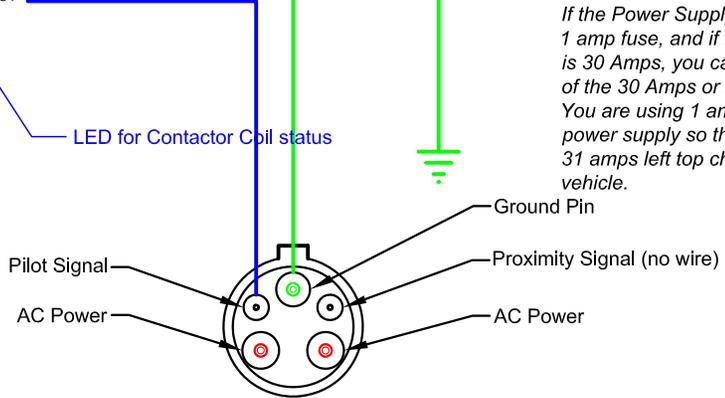
All power to these switches is safe low voltage <24VDC and bonded to the equipment and electrical ground.

Power Supply must be fused or have a circuit breaker sized as described in the power supply instructions. Parts must be UL listed for this use.



Power Supply is powered by the power that will charge the car from the breaker box. Typically this will be 240VAC and a universal input voltage supply is best.

If the Power Supply requires a 1 amp fuse, and if the breaker is 30 Amps, you can use 80% of the 30 Amps or 24 Amps. You are using 1 amp for this power supply so there is only 31 amps left to charge the vehicle.



Mating face view of J1772 Connector on cable

Ethernet 10/100 Port (optional) or ZigBee module

All power to this board is safe low voltage <24VDC and bonded the equipment and electrical ground.

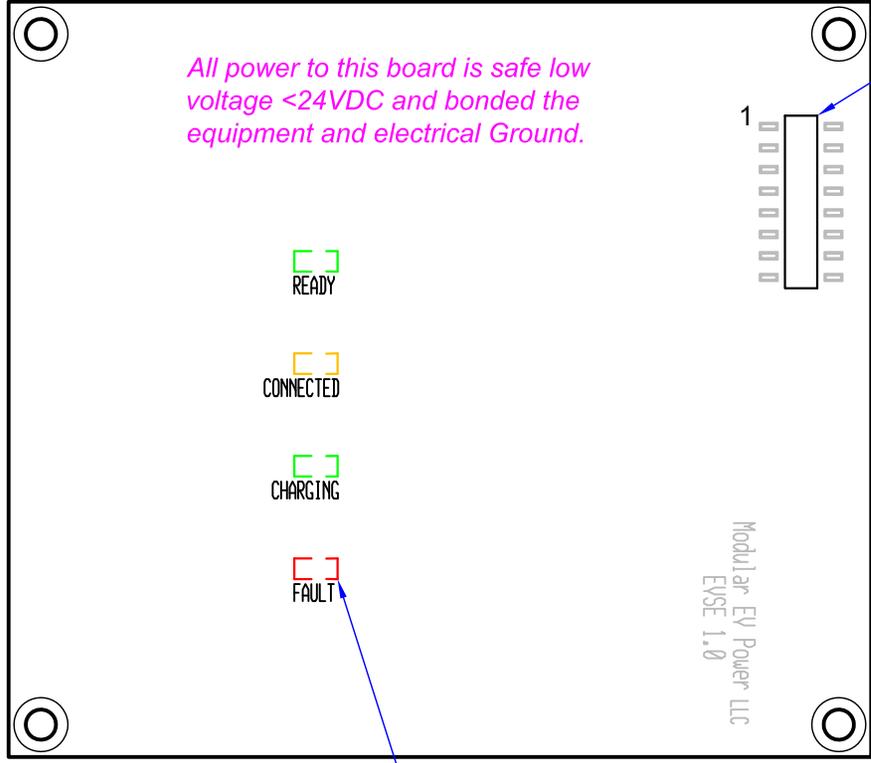
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Wiring - J1772 EVSE 3 Board
Rev 1.0 - 6/18/2011

Drawing: J1772_EVSE3_Wiring 1 of 3

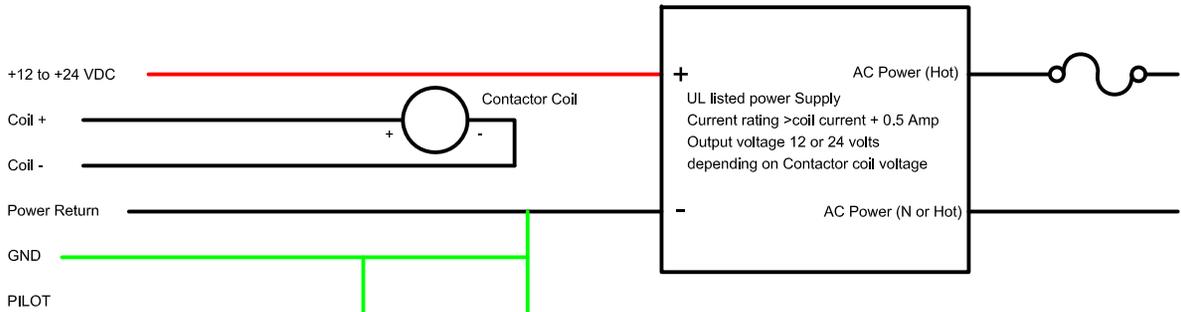
J1772 EVSE 3 Board



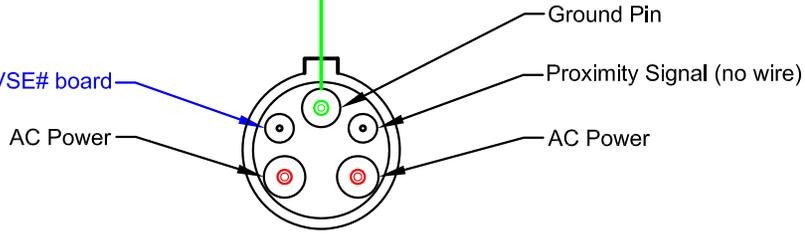
Switch to set available current for PWM Pilot signal 6 to 80 Anps

Use binary code to set maximum available current in PWM Pilot signal.
Valid Range is 6 to 80 Amps.
This value will be seen on the LCD or in the data sent

LED for Charge State Status



Pilot Signal From EVSE# board



Mating face view of J1772 Connector on cable

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Wiring - J1772 EVSE 3 Board
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Drawing: J1772_EVSE3_Wiring 2 of 3

J1772 EVSE 3 Board

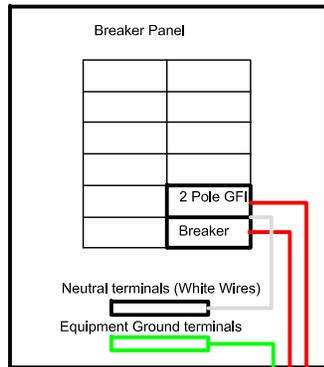
The EVSE needs to be located in a UL listed enclosure suitable for the area. We recommend a polycarbonate box with a clear cover.

The Power Contactor(relay) will typically be a 3 pole device. It must be rated at 240 volts or more. The contacts must be rated at the breaker current or more. The coil voltage must match the power supply.

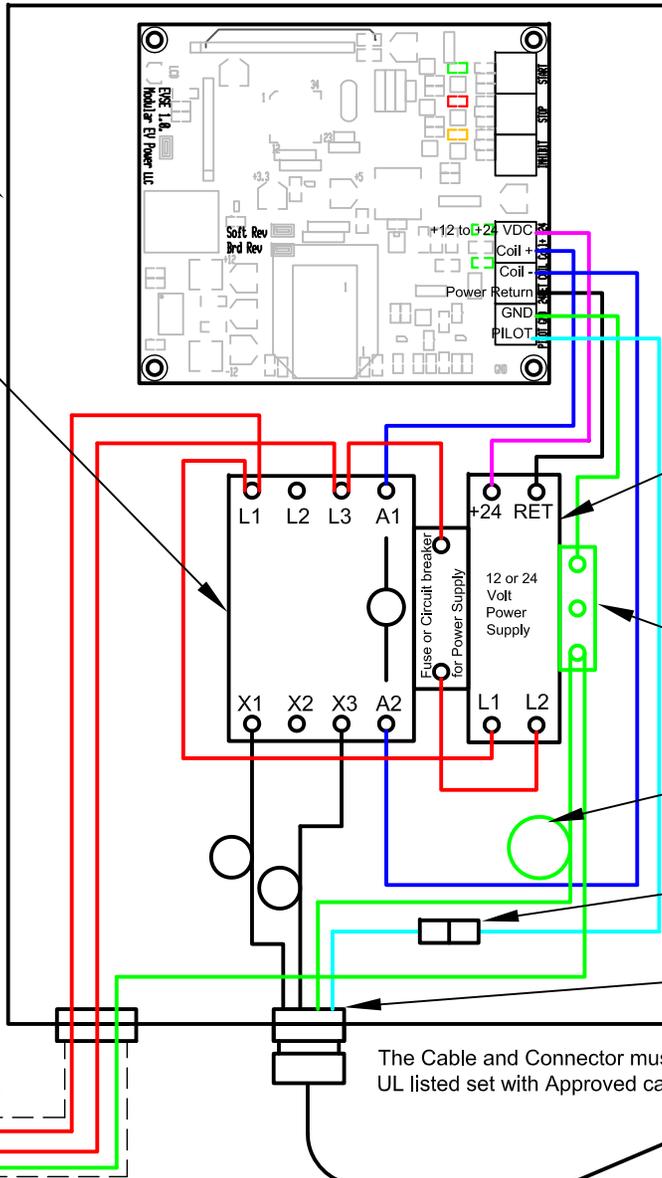
Wires must be sized as required by the NEC for the load.

Your Breaker panel.
It must have space for a new 2 pole GFI breaker and your electrical service must have the capacity to handle the increased load

The 2 POLE GFI breaker has a white neutral connection that must be connected to the Neutral buss. Remember to mark the breakers function on the box.



Electrical Power to EVSE must be in suitable cable or conduit for location and NEC



If the Power Supply requires a 1 amp fuse, and if the breaker is 30 Amps, you can use 80% of the 30 Amps or 24 Amps. You are using 1 amp for this power supply so there is only 31 amps left top charge the vehicle. There is a switch on the back of the board to set the available current.

Power Supply must be fused or have a circuit breaker sized as described in the power supply instructions. Parts must be UL listed for this use. The power supply is pecked based on the power requirements of the Contactor coil plus 1/2 Amp and then move to the next larger power supply.

Power Supply is powered by the power that will charge the car from the breaker box before the breaker. Typically this will be 240VAC and a universal input voltage power supply is best. This power supply isolated the controller from the power lines high voltages. The negative output us connected to ground for maximum safety.

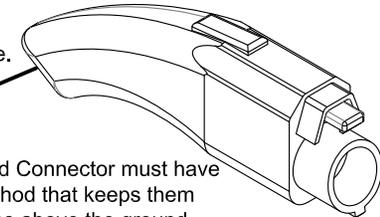
A terminal strip for grounds is needed and if there is a metal panel on the box it must be grounded. Obviously a metal box would need grounding.

Power and ground wires need slack so they pull out in sequence. Power wires need about 6 inches of slack and the ground needs 12 inches.

The Pilot signal needs an Anderson or 1/4 inch quick disconnect in line to insure it breaks first if the cable is pulled out of the box. The pilot needs about 3 inches of slack on the wire.

The Cable strain relief needs to be secure for everyday use but not so strong that the entire box is pulled away incase of an accidental drive away.

The Cable and Connector must be a UL listed set with Approved cable type.



The Cable and Connector must have a storage method that keeps them 24 to 48 inches above the ground.

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Wiring - J1772 EVSE 3 Board
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Drawing: J1772_EVSE3_Wiring 3 of 3