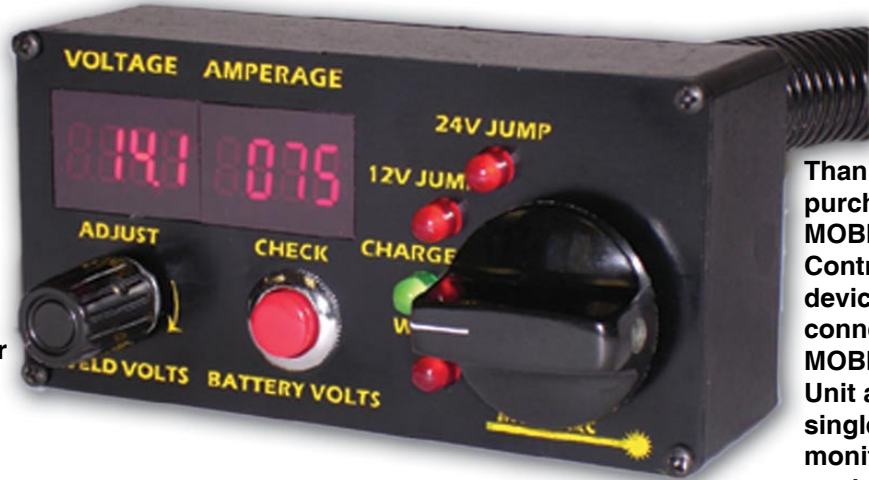




**Packing List:**

- MOBI-ARC RCM
- Thumb screws
- Mounting bracket
- Hall-Effect DC Current Sensor
- Wire Harness
- Hardware



Thank you for purchasing your MOBI-ARC Remote Control Module. This device is designed to connect to any MOBI-ARC Control Unit and provide a single point of monitoring and control.

ITEM	PURPOSE
Voltage LED Display	Indicates alternator's voltage
Amperage LED Display	Indicates alternator's amperage
Check Battery Volts Button	When depressed, momentarily indicates battery voltage in the Voltage LED display
Current Sensor Loop	Install over YELLOW alternator cable with the arrow pointing toward the MOBI-ARC Control Unit. Current sensor loop must be powered. Connect to battery per instruction sticker on loop. When connecting sensor loop to control harness, yellow connects to yellow, green connects to green. Device draws 8.1 mA on 12 VDC electrical system.

## ROTARY SELECTOR SWITCH

Charge	Alternator to charge battery for normal day-to-day driving. Voltage should be 13.1 VDC to 14.9 VDC (for 12 V vehicles), 26.2 VDC to 29.8 VDC (for 24 V vehicles) GREEN LED STEADY ON
Weld	Vehicle's battery automatically disconnected from the alternator and will not be charged while in "weld" mode. Adjust welding voltage using "weld volts" knob. Voltage range is 17 VDC to 37 VDC. Amperage LED display will indicate relatively low current until an arc is drawn. RED LED BLINKING
12V Boost	Vehicle's battery automatically disconnected from the alternator and will not be charged while in "12V Jump" mode. Output voltage factory pre-set at 16.3 VDC RED LED BLINKING
24V Boost	Vehicle's battery automatically disconnected from the alternator and will not be charged while in "24V Jump" mode. Output voltage factory pre-set at 32.3 VDC RED LED BLINKING

**CAUTION:** Do not rotate selector switch to "CHARGE" while jumping a 24 VDC electrical system as current could back-flow to the 12 VDC electrical system and cause damage. We suggest the use of an in-line rectifier like POWER-GATE to act as a "check-valve."

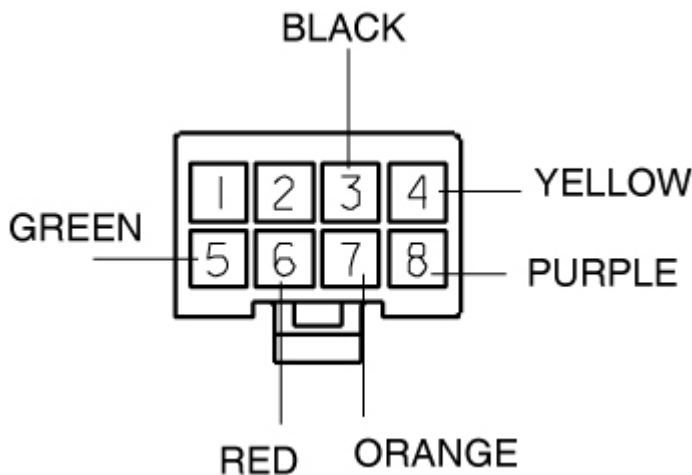
Perfect Switch, LLC  
 Mobile Welding & Power, Inc.  
 11722 Sorrento Valley Road, Suite E  
 San Diego, CA 92121  
 858.720.1339  
 858.720.8556 fax  
 www.mobi-arc.com  
[info@mobi-arc.com](mailto:info@mobi-arc.com)



# INSTALLATION INSTRUCTIONS

Install the MOBI-ARC Control Unit and test per the Post Installation Check-list in your MOBI-ARC User Guide to be sure the control unit is connected to the alternator correctly, and the alternator is being controlled by the control unit and able to achieve standard battery charging voltage, as well as elevated welding voltage.

- Install Remote Control Module (RCM) inside the cab of the vehicle using the provided bracket and thumb-screws.
- Run the provided umbilical chord from the rear of the RCM to the rear of the MOBI-ARC Control Unit. Each end of the umbilical chord is terminated with a MOLEX plug which connects to a mated receptacle on the rear of the RCM and the MOBI-ARC Control Unit.
- The eye of the hall-effect sensor gets threaded with the yellow alternator output cable with the arrow on the sensor pointed toward the MOBI-ARC, and away from the alternator. The wire harness that feeds the sensor is twisted and cannot be run in parallel or bundled with other power wires, as interference and electrical noise will disrupt the signal and cause the RCM LED displays to read funny.
- The black and red wires from the hall-effect sensor get connected to battery ground and battery positive respectively (black to ground, red to positive). This powers the sensor.



As viewed from wire injection side:

- 3- BLACK
- 4- YELLOW
- 5- GREEN
- 6- RED
- 7- ORANGE
- 8- PURPLE