



# MJ1230C DC CONVERTER

## INSTALLATION INSTRUCTIONS

**INCLUDED:**  
Converter

**TOOLS NEEDED:  
(NOT SUPPLIED)**  
Wire Stripper Cutters

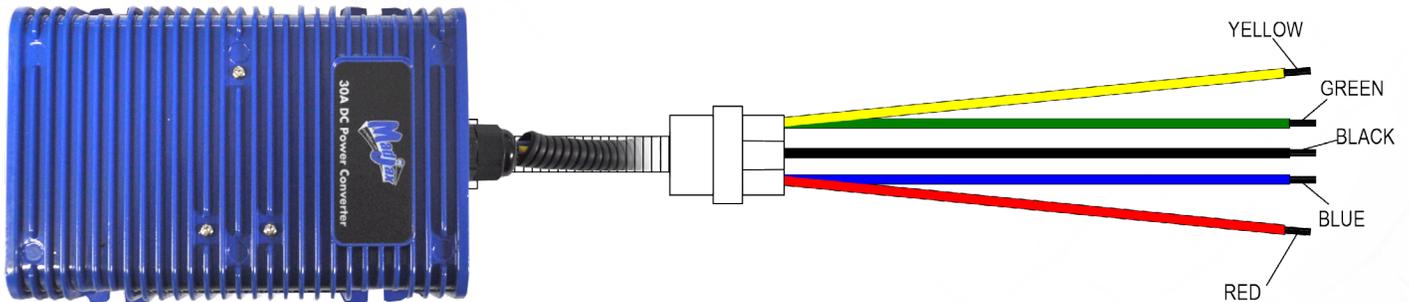
DC CONVERTER



Wiring Pigtail



Madjax recommends professional installation. If you choose to not have this product installed by a professional, we highly recommend that you exercise caution, care, and patience when installing this product.



- Yellow:** 48v/36v Input (+) From Battery
- Green:** 48v/36v Switched Input (+) From Keyswitch
- Black:** Ground (-) From Battery
- Red:** 12v Switched Output (+)
- Blue:** 12v Constant Output (+)

## IMPORTANT

IN ORDER TO ENSURE PROPER FUNCTION OF YOUR MADJAX DC TO DC CONVERTER, YOU MUST FIRST DETERMINE YOUR MAIN POSITIVE AND NEGATIVE BATTERY TERMINALS. WIRES ③ AND ⑤ **MUST** BE CONNECTED ACROSS YOUR ENTIRE BATTERY PACK AND WIRE ④ **MUST** BE CONNECTED TO YOUR KEYSWITCH. IN 48V APPLICATIONS, NOT CONNECTING THE CONVERTER ACROSS THE ENTIRE BATTERY PACK WILL RESULT IN AN UNEVEN DRAW WHICH COULD SHORTEN THE LIFE OF YOUR BATTERY PACK. IN 36V APPLICATIONS, FAILURE TO CONNECT THE CONVERTER ACROSS THE ENTIRE BATTERY PACK WILL RESULT IN THE UNIT NOT FUNCTIONING.

DURING NORMAL OPERATION, THE MADJAX DC TO DC CONVERTER WILL GENERATE A SIGNIFICANT AMOUNT OF HEAT. THE UNIT SHOULD BE MOUNTED TO A METAL FRAME MEMBER IN ORDER TO PREVENT POSSIBLE DAMAGE TO YOUR CART.

IF YOU DO NOT USE EITHER WIRE ① OR WIRE ② YOU **MUST** CAP THE WIRE WITH A WIRE NUT OR A CRIMP CAP, AS THE WIRE WILL BE LIVE.

## WIRE DESCRIPTIONS

### YELLOW

CONNECT WIRE TO MAIN POSITIVE (+) ON BATTERY PACK

### GREEN

CONNECTS TO SWITCHED 48V/36V POWER SOURCE. (KEY SWITCH IS 48V/36V WHEN ON OR WHEN OFF) ATTACH GREEN TO CONTACT THAT SHOWS VOLTS ONLY WHEN KEY IS TURNED TO THE ON POSITION. THIS WIRE TURNS OFF AND ON CONVERTER.

### BLACK

CONNECT TO THE MAIN GROUND (-) ON BATTERY PACK. MULTIPLE ACCESSORIES CAN TIE IN TO THIS BLACK GROUND WIRE WITH A BUS CONNECTOR OR ATTACH TO THE MAIN GROUND AS WELL.

### RED

ACCESSORIES FEED TO THIS 12V SWITCHED WIRE. WHEN GREEN WIRE IS ATTACHED TO KEY SWITCH POWER SOURCE THIS WIRE WILL PROVIDE POWER TO ACCESSORIES.

### BLUE

ACCESSORIES THAT HAVE A MEMORY WIRE WILL ATTACH TO THIS CONSTANT 12V WIRE. THIS WIRE KEEPS A VERY LOW VOLTAGE AT ALL TIMES TO AVOID MEMORY LOSS WITH ACCESSORIES SUCH AS A RADIO.

## INSTALLATION COMPLETE

E-Z-GO®, E-Z-Go® TXT®, and E-Z-Go® RXV® are registered trademarks of Textron Innovations, Inc. Club Car®, Club Car® Precedent®, and Club Car® DS® are registered trademarks of Ingersoll Rand, Inc. Yamaha®, Yamaha® Drive®, G-14®, G-16®, G-19®, and G-22® are registered trademarks of Yamaha Golf-Car Company. Any reference to Club Car®, E-Z-Go®, or Yamaha® or their associated trademarks, word marks, and products are only for purposes of identifying golf carts with which this Madjax product is compatible. Madjax products are aftermarket parts and are not original equipment parts. Madjax is not connected to, affiliated with, sponsored by, or endorsed by either Textron Innovations, Inc., Ingersoll Rand, Inc., Yamaha Golf Cart Company, or any of their parent or subsidiary companies.