

# PURKEYS

A MISSION CRITICAL ELECTRONICS BRAND

## INDICATE™

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## INSTALLATION GUIDE





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## GENERAL INFORMATION

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The Indicate™ system is automatic and has easy-to-interpret LED indicators to assure drivers and technicians of proper system function by monitoring the source power and liftgate batteries. Simply put, the Indicate system provides indication that the current charging system for the liftgate batteries is functioning properly, which is essential in low mileage, high frequency liftgate operation applications. The LED indicators clearly show the status of the source as well as the status of the liftgate batteries. A quick glance at the Indicate controller assures the driver that the liftgate batteries are ready to go or alerts the driver that the batteries need maintenance.

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## LED INDICATION

LED	STATUS
 GREEN SOLID	Charging
 YELLOW SOLID	Weak
 GREEN BLINK	Good Voltage
 ORANGE BLINK	Low Voltage
 ORANGE RAPID-BLINK	Fault

This product comes with a 2 year warranty.  
**NOTE:** The warranty will be void if the unit has been drilled or modified. If you experience any problems with this unit, please call 800-219-1269 and we will gladly assist you.

 PURKEYS  
**INDICATE**  
U.S. Patent Pending

## INDICATE CONTROLLER MOUNTING

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Step 1: Mount the Indicate controller at the front of the trailer via the mounting holes on the plate that the controller is mounted to.

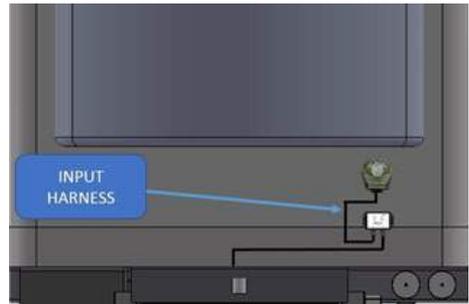


## INDICATE SINGLE POLE APPLICATION

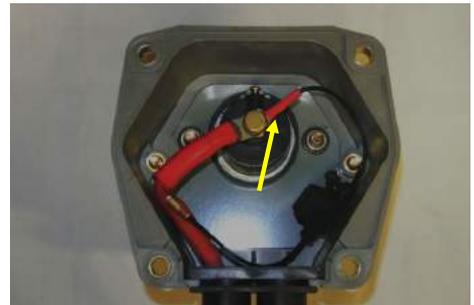
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Step 1: Route the jacketed 2-conductor input harness up to the single pole receptacle. Ensure that it will reach the single pole nosebox and then cut off any excess cable.

Important: Place the supplied cable clamps along the 2-conductor jacketed input harness every 6 inches to ensure proper support for the cable. Avoid sharp edges and possible chaffing points.

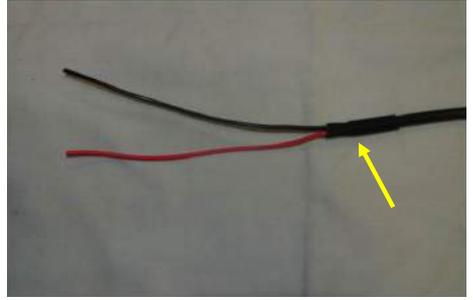


Step 2: Remove the single pole receptacle from the trailer to access the connection inside the nosebox. Connect the supplied 2 amp fuse holder to the single pole receptacle.

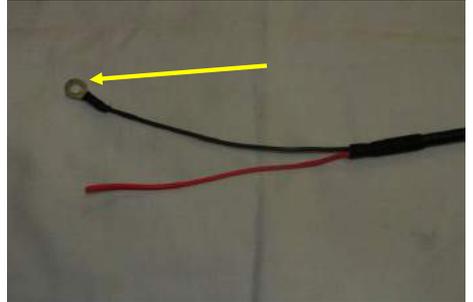


## INDICATE INSTALLATION GUIDE

Step 3: Strip 6 inches of the jacketing off the 2-conductor input harness and apply a short piece of the supplied 3/8" black heat shrink to the area where the jacketing was cut off.



Step 4: Prep the chassis ground wire by adding the supplied 1/4 inch ring terminal. Solder and heat shrink this connection using the supplied heat shrink.

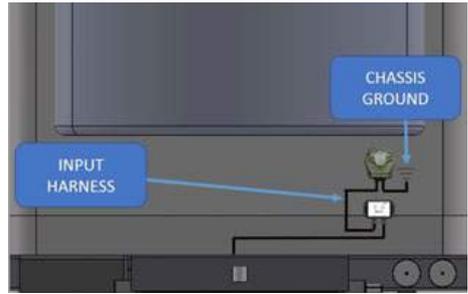


Step 5: Route the jacketed 2-conductor input harness back into the single pole nosebox. Butt connector the red wire to the 2 amp fuse holder. Solder and apply the supplied 2 pieces of 1/4" red heat shrink. Route the black chassis ground wire back out of the single pole nosebox to be attached to the front of the trailer or to one of the single pole nosebox mounting bolts.



**IMPORTANT:** The chassis ground wire must be attached to a good chassis ground.

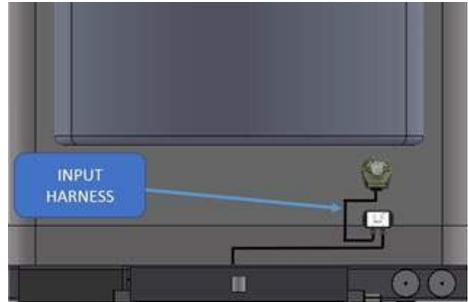
Step 6: Mount the single pole nosebox back onto the front of the trailer. Attach the chassis ground wire to the front of the trailer using the supplied self-tapping screws.



## INDICATE DUAL POLE APPLICATION

Step 1: Route the jacketed 2-conductor input harness up to the dual pole receptacle. Ensure that it will reach the single pole nosebox and then cut off any excess cable.

Important: Place the supplied cable clamps along the 2-conductor jacketed input harness every 6 inches to ensure proper support for the cable. Avoid sharp edges and possible chaffing points.

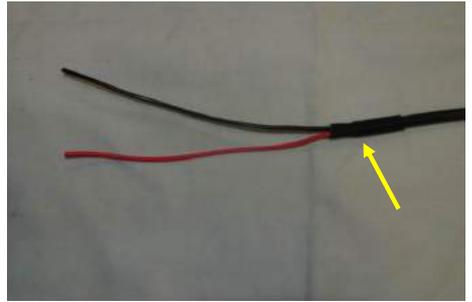


Step 2: Remove the dual pole receptacle from the trailer to access the connection inside the nosebox. Connect the supplied 2 amp fuse holder to the positive side of the dual pole receptacle.

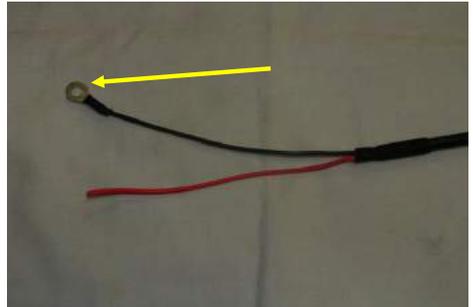


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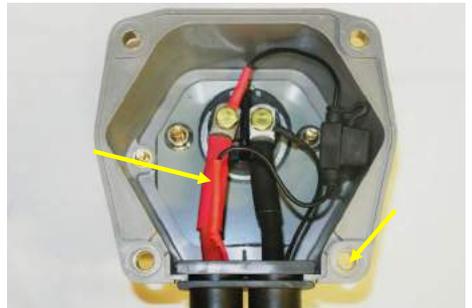
Step 3: Strip 6 inches of the jacketing off the 2-conductor input harness and apply a short piece of the supplied 3/8" black heat shrink to the area where the jacketing was cut off.



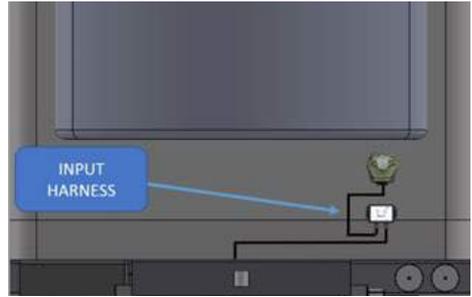
Step 4: Prep the ground wire by adding the supplied 1/4 inch ring terminal. Solder and heat shrink this connection using the supplied heat shrink.



Step 5: Route the jacketed 2-conductor input harness back into the dual pole nosebox. Butt connector the red wire to the 2 amp fuse holder. Solder and apply the supplied 2 pieces of 1/4" red heat shrink. Connect the black ground wire to the negative side of the dual pole receptacle and tighten.

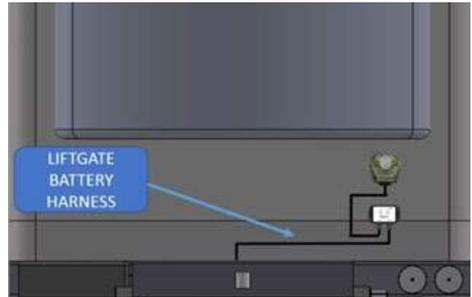


Step 6: Mount the dual pole nosebox back onto the front of the trailer.



## INDICATE LIFTGATE BATTERY HARNESS

Step 1: Route the jacketed 2-conductor liftgate battery harness behind the front plate then behind the header plate through the air/electrical tube to the center channel.



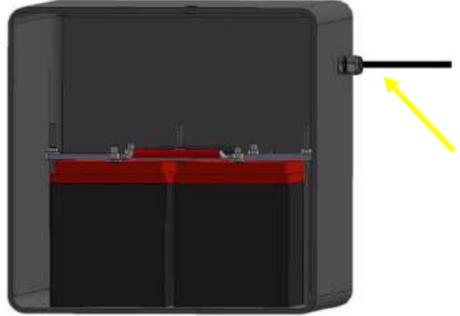
Step 2: Route the jacketed 2-conductor liftgate battery harness in the center channel toward the back of the trailer. Secure with the supplied wire ties or cable clamps as you go.

Important: Place the supplied cable clamps along the 2-conductor jacketed wire every 18 inches to ensure proper support for the cable. Avoid sharp edges and possible chaffing points.



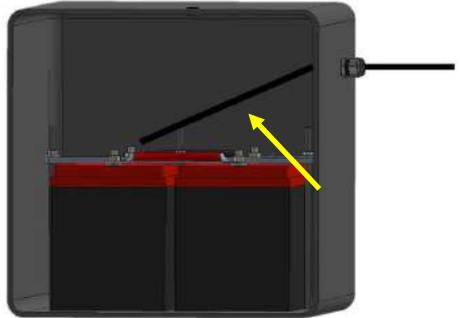
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Step 3: Once you are near the area where the liftgate battery box is located, begin routing the jacketed 2-conductor liftgate battery harness into the liftgate battery box through a dome nut or rubber grommet.



Important: Ensure that the 2-conductor jacketed wire enters the liftgate battery box through a dome nut or rubber grommet to prevent chaffing of wire, which could result in possible electrical short in the system.

Step 4: Position the jacketed 2-conductor liftgate battery harness so that it will reach the liftgate batteries with a little extra slack in the cable. Mark the wire so that it can be taken back out of the battery box to be terminated.

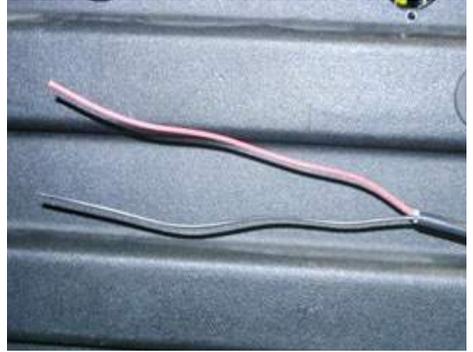


Note: If your battery box includes a slide out tray, include enough slack to allow the tray to fully extend without tugging on the wire connections.

Step 5: Pull the jacketed 2-conductor back out of the box (easier to work on) and cut off the excess at your mark.



Step 6: Cut about 8 inches off of the conductor.



Step 7: Apply the supplied 3/8 inch black heat shrink where the jacket was stripped off.



Step 8: Strip 3/8 inch of insulation off both red and black wires.



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Step 9: Route the jacketed 2-conductor liftgate battery harness back into the liftgate battery box. Slide the supplied black ¼ inch heat shrink over the black wire. Slide (2) 2 inch pieces of the supplied red ¼ inch heat shrink over the red wire. Crimp on the 3/8 inch ring terminal onto the black wire. Crimp on the supplied 2 amp fuse holder to the red wire. Solder and heat shrink both connections.



Step 10: Attached the 2 amp fuse holder to liftgate battery positive and the black ground wire to the liftgate battery negative.



Installation complete.

## LIMITED COMMERCIAL WARRANTY POLICY

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MCE Purkeys FE, LLC (hereafter “Purkeys”), warrants each product to be free of defects in material or workmanship under normal use and service. This warranty is for the benefit of Original Equipment Manufacturers, Dealers, Warehouse Distributors, Fleets, or other End Users (hereafter “Customers”) and covers products manufactured by Purkeys and sold new to Customers either directly by Purkeys or by its authorized dealers, distributors, or agents. The length of the Warranty Period is 36 months.

The warranty period commences on the in-service or install date and is not transferable. Failure to provide the in-service or install date on the warranty claim form will cause the warranty period to begin on the date the part was manufactured, or date of sale recorded on the original sales invoice, whichever is earlier.

A completed warranty claim form should accompany all parts submitted to Purkeys for consideration for repair or replacement under warranty. The submitted claim form should contain all of the information required. Lack of a properly or fully completed claim form will result in delay or denial of warranty claim. Claims must be submitted no later than 30 days after part is removed.

This warranty does not apply if, in sole judgement of Purkeys, the product has been damaged or subjected to accident, faulty repair, improper adjustment, improper installation or wiring, neglect, misuse, or alteration or if the product failure is caused by defects in peripheral vehicle components or components attached to the Product or failure of a part not manufactured by Purkeys.

This warranty shall not apply if any Purkeys product is used for a purpose for which it is not designed or is in any way altered without the specific prior written consent of Purkeys. ANY product alleged by a Customer to be defective must be inspected by Purkeys as a part of the warranty claims process in order to confirm that the part has failed as a result of a defect in material or workmanship.

Transportation for products and parts submitted to Purkeys for warranty consideration must be prepaid by Customer. Repaired or replaced products and or components will be returned to Customer pre-paid by Customer or “freight collect” to the address provided by Customer in the warranty claim form. No charge will be made for labor or material in effecting such repairs.

The Warranty provided by Purkeys hereunder is specifically limited to repair or replacement of the Product as Purkeys deems most appropriate in its sole discretion. Purkeys neither assumes nor authorizes any other person to assume on its behalf any other warranty or liabilities in connection with Purkeys products. The Warranty does not apply to fuses or other “consumable” or maintenance items which are or may be a part of any Purkeys product.

**THIS WARRANTY DOES NOT APPLY TO LOSS OF VEHICLE OR EQUIPMENT, LOSS OF TIME, INCONVENIENCE, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. PURKEYS SPECIFICALLY DISCLAIMS AND SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES arising out of or from the use of Purkeys products by the Customer.**

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, INCLUDING COMMON LAW WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, AND ANY OTHER EXPRESS OR IMPLIED WARRANTIES. ALL OTHER SUCH WARRANTIES ARE SPECIFICALLY DISCLAIMED.**

This Limited Commercial Warranty supersedes all previous Warranty Policies issued by Purkeys and any of its suppliers.

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