

# PURKEYS

## **SELECT/DIRECT DEMO BOX**

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### **USER GUIDE**



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## USING THE DEMO BOX

Step 1: Plug in the positive and negative alligator clamp harness into the external port located on the top of the demo box. Connect the positive and negative clamps to an external 12-volt battery that is at good state of charge. The external battery is to simulate a tractor battery.

Note: The meter on the inside of the unit marked “Input” should read tractor battery voltage and the meter should read 0 amps.



Step 2: Connect positive wire (red wire from 30 A CB) and negative wire from P1020 plate to an external battery. (Liftgate Battery)



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Step 3: Use the supplied leads with banana plugs and connect a multimeter to the receptacles inside the demo unit. Connect the black lead to Ground and the red lead to the positive of either the port marked Select or Direct.



Step 4: Plug AC extension cord into the AC port located at the top of the demo box. This will be used to supply power to operate the internal power supply as adjust voltages for demonstration.



Step 5: Position the Direct/Select switch to system being demonstrated. Use the adjuster knob to raise or lower the liftgate battery voltage to simulate the following:

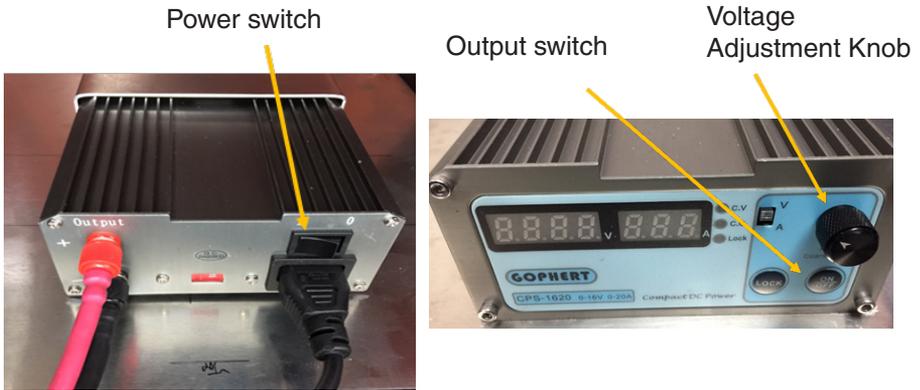
- Below 6 volts will show no LEDs as the controller needs to be above 6 volts to power on.
- Below 12.4 volts shows an orange LED indicating low Lift Battery voltage.



- Above 12.4 volts shows blinking green indicating good Lift Battery voltage.
- Above 12.8 volts shows solid green indicating Lift Battery is getting charged.

Step 6. Turn power supply on using the switch located at the back of the power supply. Turn output switch on the front of the power supply on. Adjust voltage as needed for demonstration.

Note: The power supply is used to adjust the input (Tractor) voltage to show the different scenarios. You may use the power supply without an external battery for the demonstration.



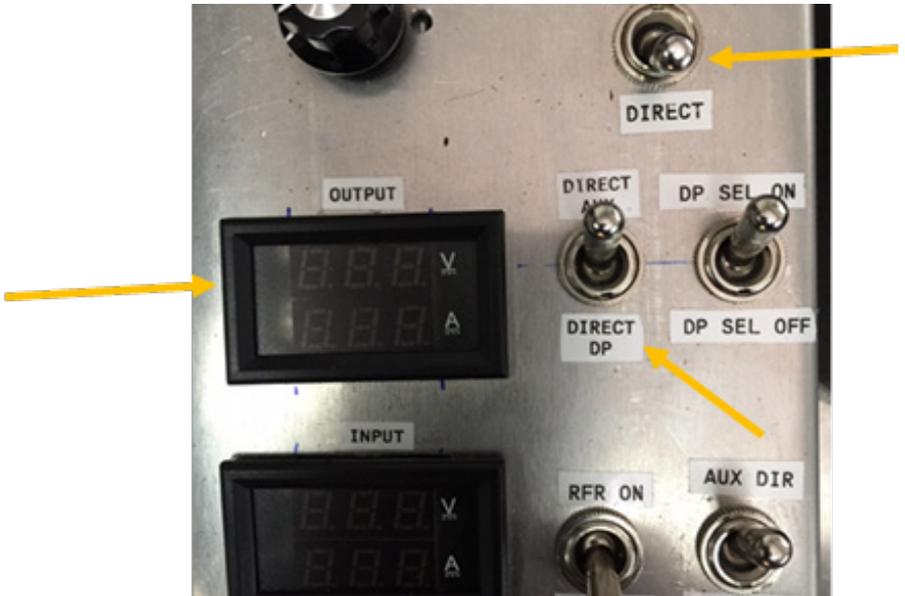
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## DIRECT DUAL POLE (STINGER) DEMONSTRATION

Step 1: Ensure the Direct/Select switch is on Direct and DP SEL is in the off position. Also ensure the RFR (Reefer) is in the off position.

Step 2: Toggle the Direct switch to Direct DP and adjust the internal power supply to desired voltage setting for the scenario being demonstrated.

Step 3: Observe the Output Volt/Ammeter to see what the DC/DC converter is outputting to the Liftgate batteries.

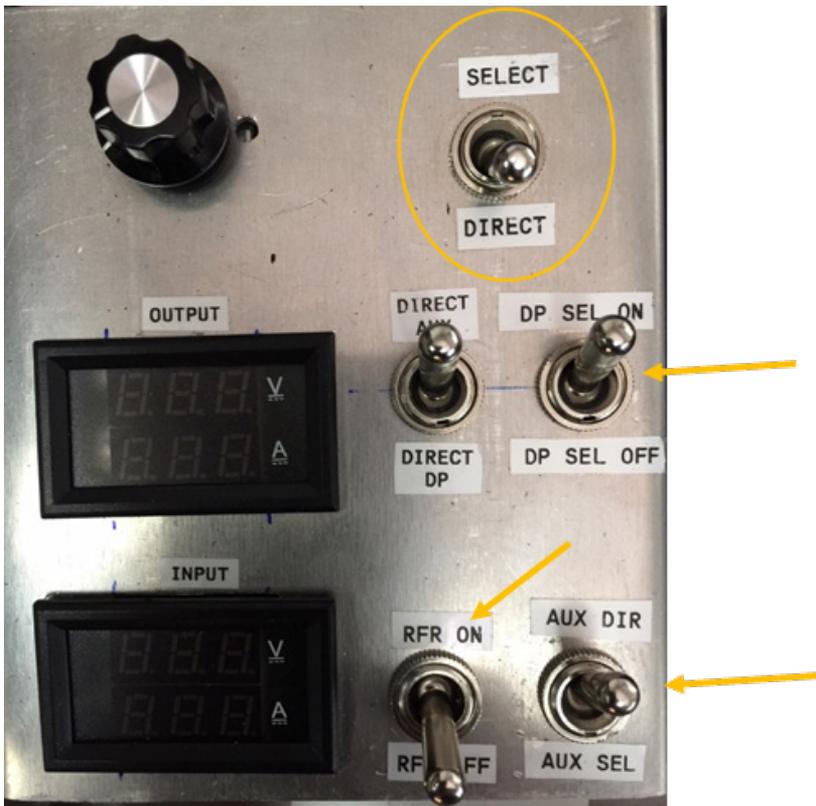


## SELECT DUAL POLE, REEFER, OR AUX DEMONSTRATION

Step 1: Ensure the Direct/Select switch is on Select. Choose the input source being demonstrated. DP SEL ON (Dual Pole), RFR ON (Reefer) or AUX SEL (Aux Circuit).

Step 2: Toggle the desired Select input switch to the on position and adjust the internal power supply to desired voltage setting for the scenario being demonstrated. Above 13.2 volts for 5 mins or 13.8 volts immediately will provide the trigger to turn on the DC/DC converter.

Step 3: Observe the Output Volt/Ammeter to see what the DC/DC converter is outputting to the Liftgate batteries.



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## SWITCH BOARD CALLOUTS



Determines which system gets liftgate battery connection

Determines source power for Direct system either Aux or Dual Pole

Turns Dual Pole on or off for Select system.

Selects Reefer on/off for Select system only.

Determines where to send Aux power. It is either Select or Direct system. If demonstrating Select system, placing switch to Direct shuts off to Select system.

## LIMITED COMMERCIAL WARRANTY POLICY

Purkeys Fleet Electric, Inc. (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 24 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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