

PURKEYS

A MISSION CRITICAL ELECTRONICS BRAND

P1020-K

INSTALLATION GUIDE



INST025 R3.00



CONTENTS

General Information	2
Installation Instructions	4
Limited Commercial Warranty Policy.....	9

GENERAL INFORMATION

The Purkeys' Select™ liftgate charging system allows charging from multiple sources and improves the charging of liftgate batteries by utilizing a DC/DC converter to boost the voltage for optimal charging. The boost in voltage overcomes the normal voltage drop caused by the extended distance between the liftgate batteries and the vehicle charging system. Also, in cold temperatures batteries require increased charging voltages to maintain a high state of charge. The DC/DC converter in the Select system compensates for temperature by providing higher charging voltages in cold weather. The result is well-charged liftgate batteries that will last longer and have ample power for liftgate operation.

The Select system is automatic and has easy-to-interpret LED indicators to assure drivers and technicians of proper system function. The Select controller increases the time that the DC/DC converter can charge the liftgate batteries by automatically choosing the best available source of power (tractor or reefer) and by monitoring the source power and “extending” the liftgate battery charge time to take full advantage of the available power, without compromising the source batteries' ability to crank the engine.

The Select system provides opportunity charging for liftgate batteries that 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 Select controller assures the driver that the liftgate batteries are ready to go, or alerts the driver that the batteries need maintenance.

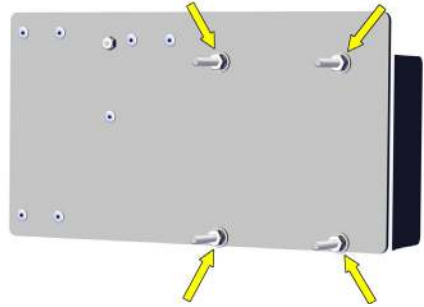
P1020-K INSTALLATION GUIDE

The Purkeys Direct™ liftgate charging system improves the charging of liftgate batteries by utilizing a DC/DC Converter to boost the voltage for optimal charging. The boost in voltage overcomes the normal voltage drop caused by the extended distance between the liftgate batteries and the vehicle charging system. Also, in cold temperatures batteries require increased charging voltages to maintain a high state of charge. The DC/DC converter in the Direct system compensates for temperature as well as for voltage drop and provides the best voltage to the remotely located liftgate batteries. The result is well-charged liftgate batteries that will last longer and have ample power for liftgate operation.

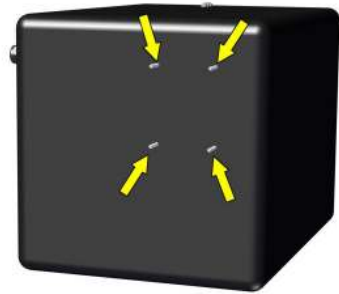
The Direct system is automatic and has easy to interpret LED indicators to assure drivers and technicians of proper system function. The Direct controller increases the time that the DC/DC converter can charge the liftgate batteries by monitoring the source power and “extending” the liftgate battery charge time to take full advantage of the available power, without compromising the source batteries’ ability to crank the engine. Simply put, the Direct system provides opportunity charging for the liftgate batteries that 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 Direct controller assures the driver that the liftgate batteries are ready to go, or alerts the driver that the batteries need maintenance.

INSTALLATION INSTRUCTIONS

Step 1: Remove the plate assembly from the box and place the flat washers on each of the four long bolts.



Step 2: Mount plate to the back side of battery box by passing the bolts through the pre-drilled holes in the battery box.



Step 3: Add the flat washers and lock washers to the bolts on the back side of the battery box.



P1020-K INSTALLATION GUIDE

Step 4: Add nuts to bolts and tighten.



Step 5: Using the supplied hardware, mount the 30 amp circuit breaker and bracket to the inside roof of the battery box.



Step 6: Install the batteries. Positive posts should be toward the door of the battery box.



Step 7: Install and tighten the nuts on the battery hold downs.



Step 8: Connect inter-cell connectors (positive to positive and negative to negative).



Step 9: Connect the 3/8 eyelet on the 10-gauge wire coming from the 30 amp circuit breaker to the battery positive post on the left side. Install nut and tighten.



P1020-K INSTALLATION GUIDE

Step 10: Connect the 10-gauge white wire marked “liftgate battery negative” to the right negative battery post. Install nut and tighten.



Step 11: Install the nuts on the rest of the battery posts, and tighten.



P1020-K INSTALLATION GUIDE

LIMITED COMMERCIAL WARRANTY POLICY

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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