





SELECT-32 V1.10 OWNERS MANUAL

SELECT™ DUAL POLE COMBINATION, REEFER AND 7 WAY OPTION



OWNERS MANUAL CONTENTS

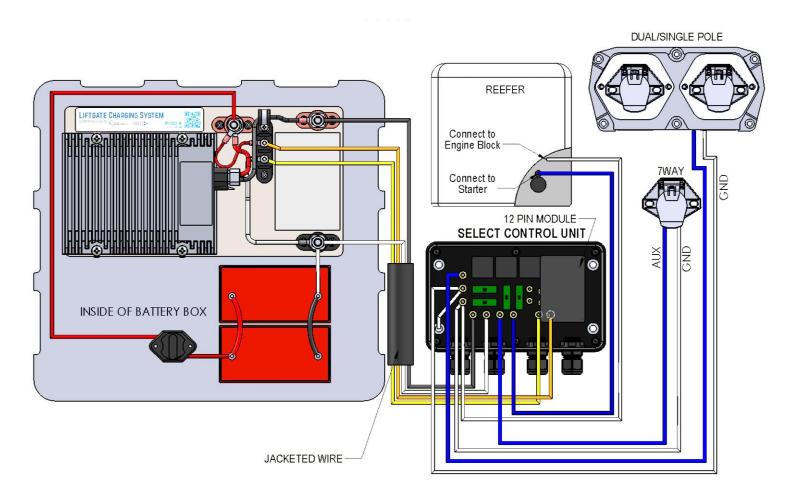
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GENERAL INFORMATION

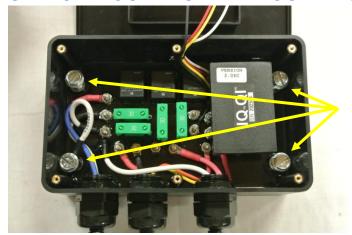
PROBLEM

The Purkeys Select™ system improves the charging of liftgate batteries by utilizing a DC-DC Converter to boost the voltage to optimally charge the batteries. The boost in voltage is needed to overcome the voltage drops in the long cables from the vehicle's primary electrical system. Also, in cold temperatures batteries require a higher voltage to get fully charged. The DC-DC Converter in the Select™ system compensates for temperature as well as for voltage drops and gets the best voltage to the remotely located liftgate batteries. The result is well charged liftgate batteries that will last longer and that will 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. Simply put, the Select™ system provides opportunity charging for the liftgate batteries that is essential in low mileage, high frequency liftgate operation applications. Now liftgate batteries can even be charged when the tractor is uncoupled! The LED indicators clearly show the status of each source as well as the status of the liftgate batteries. A quick glance at the Select™ Controller assures the drive that the liftgate batteries are ready to go, or alerts the driver that the batteries need maintenance.



SELECT™ CONTROLLER MOUNTING



STEP 1

Mount the Select™ controller at the front of the trailer via the mounting holes on the inside of the controller box. Secure the white wire marked "Chassis Ground" to the bottom left mounting hole.

Note: It may be easier to remove the 12 pin control module to access the top right mounting hole and replace when the Select™ controller is secure.

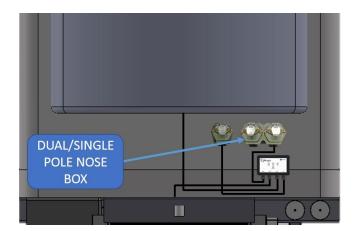


STEP 2

Install the lid. Ensure that all 6 of the sealing screws are tight.



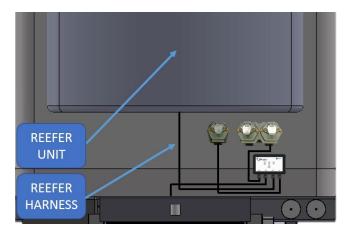
DUAL/SINGLE NOSE BOX INSTALLATION



STEP 3 Mount the Dual/Single pole nose box close to the Select $^{\text{\tiny TM}}$ controller.

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REEFER HARNESS INSTALLATION



STEP 4

Route the jacketed 2 conductor up towards the reefer compartment.

IMPORTANT: Place the cable clamps along the reefer harness every 6 inches to ensure proper support for the cable. Also avoid sharp edges and possible chaffing points.



STEP 5

Connect the reefer harness white ground wire to the reefer's engine block ground and tighten.

Note: When adding a ground to the engine block, the terminals need to be mounted 30 degrees from each other and the biggest terminal closest to the engine block to ensure a good ground terminal connection.



STEP 6

Connect the reefer harness pink positive wire with the 50 amp inline fuse to the reefer starter positive post.

Note: Make sure no wire is hanging and all clamps and cable ties are no longer that 6 inches apart from each other.

Reefer Harness Installation Complete

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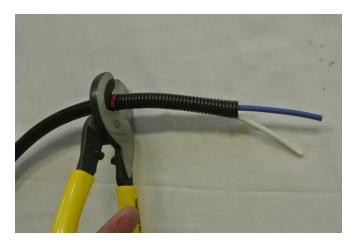
AUX HARNESS INSTALLATION



STEP 7

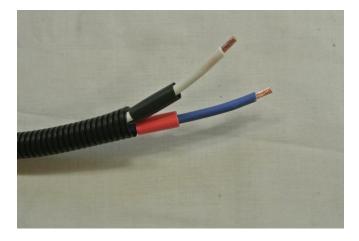
Route the jacketed 2 conductor from the Select™ controller over to the seven way nose box.

IMPORTANT: Place the cable clamps along the seven way aux harness every 6 inches to ensure proper support for the cable. Also avoid sharp edges and possible chaffing points.



STEP 8

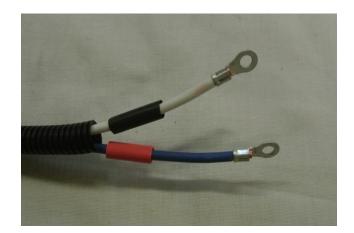
Position the 2 conductor harness so that is reaches the ground pin on the top of the seven way receptacle and the Aux pin in the center of the seven way receptacle. Mark the cable and then cut to length.



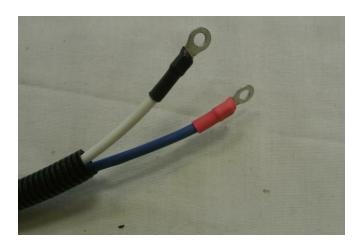
STEP 9

Slide the supplied red $\frac{1}{4}$ inch heat shrink over the blue wire. Slide the supplied black $\frac{1}{4}$ inch heat shrink over the white wire.

AUX HARNESS INSTALLATION (Continued)



STEP 10Crimp on the supplied 10GA #10 eyelets onto both the blue and white wires.



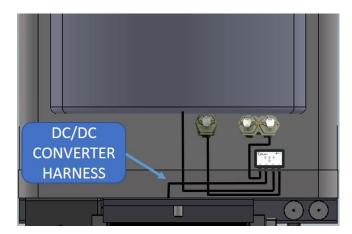
STEP 11Solder then position the heat shrink over the crimps and apply heat to the 2 terminals.

IMPORTANT: Place the cable clamps along the seven way aux harness every 6 inches to ensure proper support for the cable. Also avoid sharp edges and possible chaffing points.

Seven Way Aux Harness Installation Complete



SELECT MAIN HARNESS INSTALLATION



STEP 12

Route the Select™ 4 conductor jacketed DC/DC converter main harness behind the front plate then behind the header plate through the air/electrical tube to the center channel.



STEP 13

Route the Select™ jacketed 4 conductor main harness in the center channel toward the back of the trailer. Secure with wire ties or cable clamps as you go.

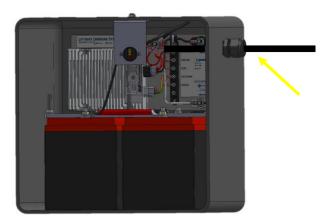
IMPORTANT: Place the cable clamps along the 4 conductor jacketed wire every 6 inches to ensure proper support for the cable. Also avoid sharp edges and possible chaffing points.



STEP 14

Once you are near the area where the liftgate battery box is located, begin routing the Select[™] 4 conductor main harness into the liftgate battery box through a dome nut or rubber grommet.

IMPORTANT: Ensure that the 4 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 15

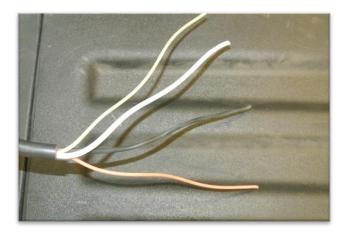
Position the Select™ 4 conductor main harness so that it will reach the 6 stud strip and all the slack has been taken up. Mark the wire so that it can be taken back out of the battery box to be terminated.

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.



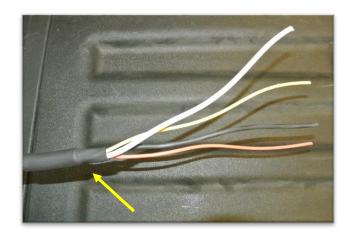
STEP 16

Pull the conductor back out of the box (easier to work on) and cut of the excess at your mark.

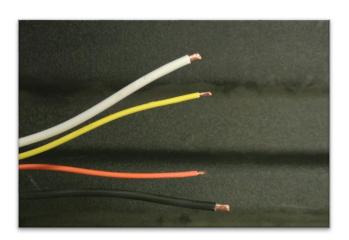


STEP 17

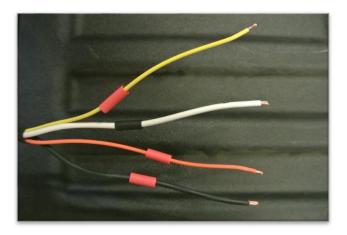
Cut the jacketed portion off of the conductor about 8 inches.



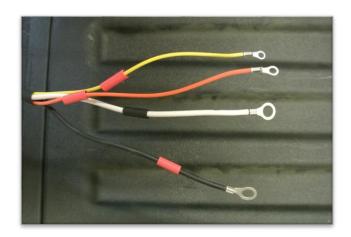
STEP 18
Apply the supplied ¾ inch black heat shrink where the jacket was stripped off.



STEP 19Strip 3/8 of an inch of insulation off all 4 wires.

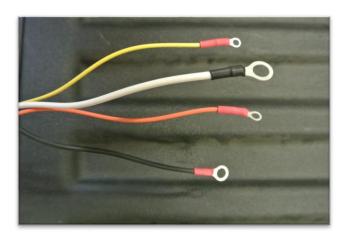


STEP 20
Slide the supplied red ¼ inch heat shrink over the orange, yellow and black wires. Slide the supplied black ¼ inch heat shrink over the white wire.



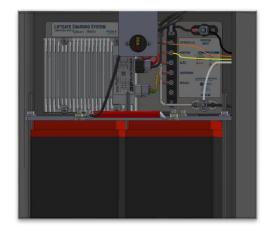
STEP 21

Crimp on terminals to the 4 wires. Both the white and black 10 gauge wires get the 3/8 ring terminals. The orange and yellow 16 gauge wire uses the #10 ring terminal.



STEP 22

Position the heat shrink over the crimps and apply heat to the 4 terminals.



STEP 23

Re-route the jacketed wire back into the battery box.

- Connect the 10 gauge black wire to the black Positive Input Stud.
- Connect the 10 gauge white wire to the white ground stud.
- Connect the 14 gauge orange wire to the Liftgate (+) stud.
- Connect the 14 gauge yellow wire to the Ignition stud.

Select™ Main Harness Installation Complete



OWNERS MANUAL

PARTS LIST



PART# MOD00075 MAXON# 907260-01 SELECT™ CONTROLLER REPLACEMENT



PART# MOD00070 MAXON# 907246-01 **CONTROL MODULE**



PART# H-00286 MAXON# 907247-01 **50FT MAIN HARNESS**



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PARTS LIST



PART# H-00289 MAXON# 907250-01 REEFER HARNESS



PART# NB00036 MAXON# 907268-01 DUAL/SINGLE POLE NOSE BOX



PART# H-00288 MAXON# 907266-01 SEVEN WAY AUX HARNESS



SELECT-32 V1.10 OWNERS MANUAL

PARTS LIST



PART# BK-1049 (Revision B) MAXON# 907251-01 TERMINAL BAG KIT



PART# BK-1054 (Revision B) MAXON# 907267-01 HARDWARE BAG KIT



PART# F00029 MAXON# 907254-01 50A MIDI FUSE



OWNERS MANUAL



PART# SELECT-32 MAXON# 296170-01 SELECT™ W/DUAL COMBO, REEFER AND AUX



PART# INST029 MAXON# 296170-500 **SELECT-32 OWNERS MANUAL**



PART# INST028 MAXON# 295210-501 SELECT™ TROUBLESHOOTING

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