

PURKEYS

A MISSION CRITICAL ELECTRONICS BRAND

ONECONNECT™ WITH INTERIOR LIGHT CONTROL

INSTALLATION GUIDE





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GENERAL INFORMATION

The Purkeys OneConnect™ nosebox connects power from the tractor to the trailer electrical system and allows the driver to control the interior lights with the touch of a button. It is available in the following configurations:

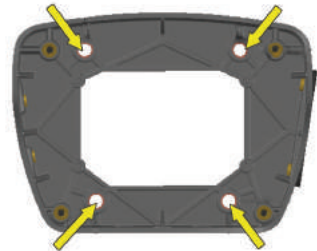
- 7-way
- 7-way and dual pole
- Dual pole
- Dual pole and single pole

ONECONNECT NOSEBOX INSTALLATION

Step 1: Using the supplied mounting screws, mount the OneConnect nosebox at the front of the trailer, using the mounting holes on the plate.



Note: The mounting plate can be removed if space is an issue or if a standard bolt pattern is wanted. Simply remove the plate and mount the nosebox to the trailer using the supplied mounting screws and the standard bolt holes inside the nosebox.



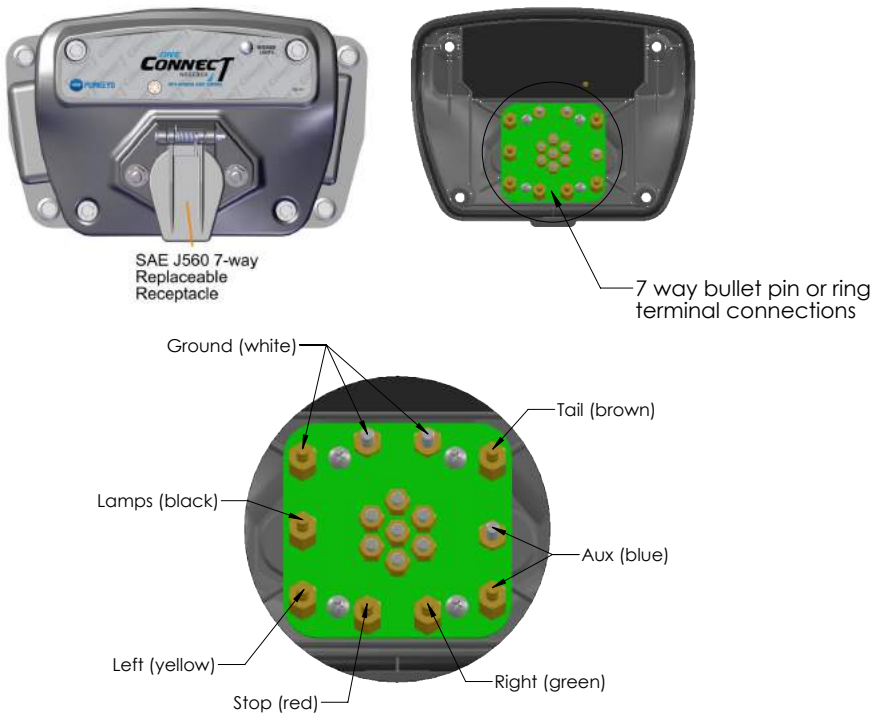
ONECONNECT WITH INTERIOR LIGHT CONTROL

7-WAY INSTALLATION

Route the 7-way harness through the liquid-tight grommet on the bottom side of the nosebox. Use either bullet pin or ring terminal connections to connect the 7-way harness to the nosebox:

- For bullet pin connections – Place the correct wire onto the bullet pin connection. The color and name for each circuit is indicated on the circuit board and correlates with the wire color on the 7-way harness.
- For ring terminal connections – Remove the bullet pin from the circuit board, place the ring terminal onto the threaded stud (do not remove the jam nut), and reinstall the bullet pin connector onto the threaded stud. Torque the bullet pin on the ring terminal to 25 lb-in. The color and name for each circuit is indicated on the circuit board and correlates with the wire color on the 7-way harness.

Note: See the following diagrams for the 7-way connections of each nosebox configuration.

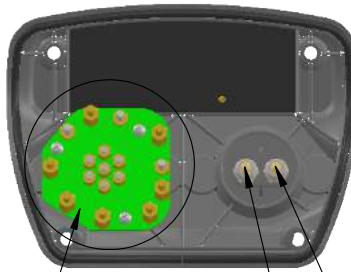


Diagrams: 7-way Receptacle Only



Dual Pole
Replaceable
Receptacle

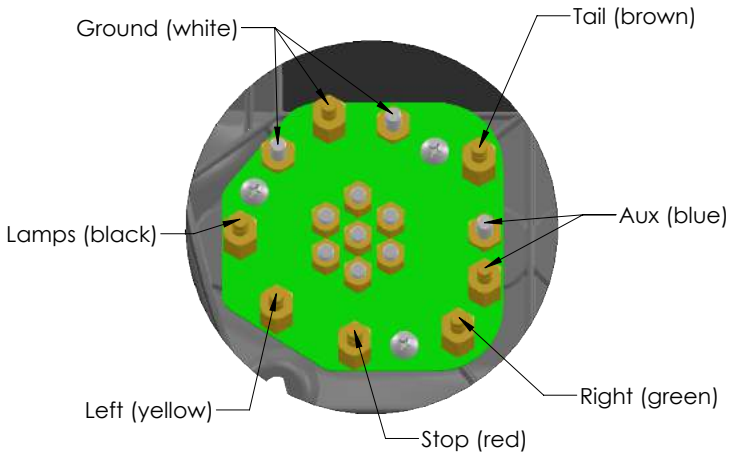
SAE 7-way
Replaceable
Receptacle



7 way bullet pin or ring
terminal connections

Dual pole
positive
connection

Dual pole
negative
connection



Diagrams: 7-way/Dual Pole Receptacles

ONECONNECT WITH INTERIOR LIGHT CONTROL

INTERIOR LIGHT INSTALLATION

To make the harness connections on the outside of the nosebox:

Step 1: Terminate the Interior Light positive wire with a #10 ring terminal and connect to the Interior Lights Positive (see Figure 1).

NOTE: The Interior Light positive circuit includes an auto-resetting fuse (not visible).

Step 2: Terminate the Interior Light negative wire with a #10 ring terminal and connect to Ground (see Figure 1).

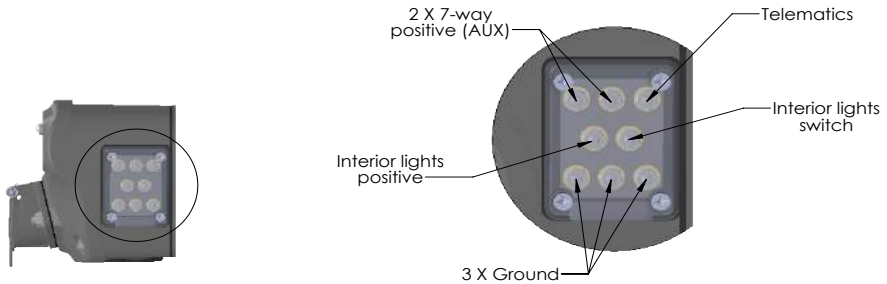


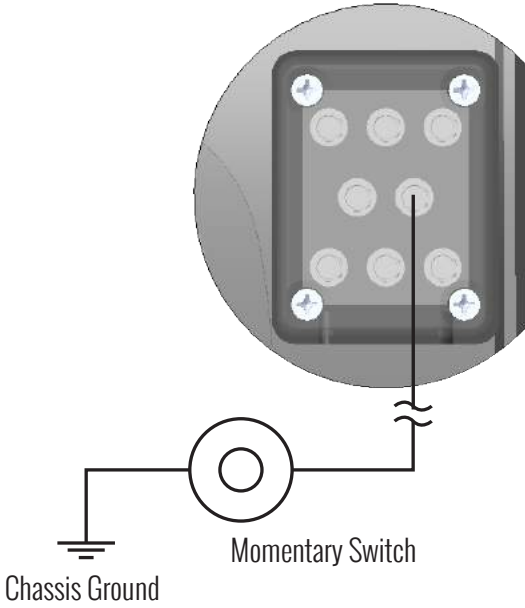
Figure 1

NOTE: Not every model includes all the pins shown, as pin availability varies by model.

Interior Light Installation Complete.

MOMENTARY SWITCH (OPTIONAL)

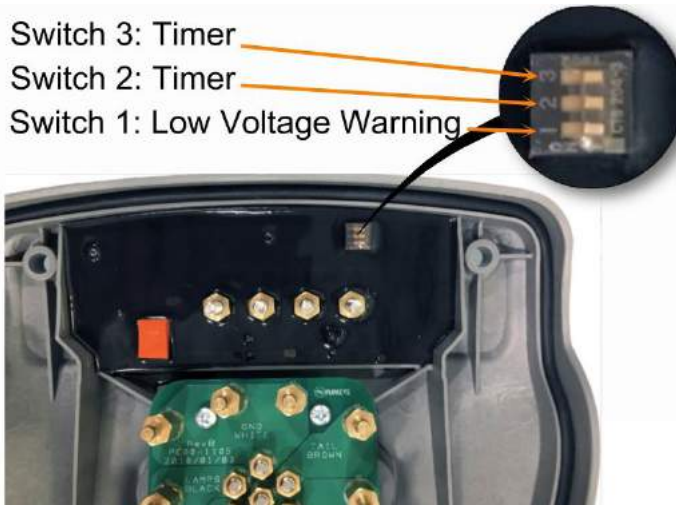
If your trailer is being spec'd with a momentary switch at the back of the trailer, wire the circuit as shown below using a #10 ring terminal.



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CONFIGURING TIMER AND LVD





Refer to the information below to change timer or low voltage disconnect settings.



Low Voltage Warning (Switch 1)	
OFF (default)	12.2 V
ON	12.4 V

Light Timeout Duration		
Timer (Switch 2)	Timer (Switch 3)	Light Duration
OFF (default)	OFF (default)	15 minutes
OFF	ON	30 minutes
ON	OFF	60 minutes
ON	ON	90 minutes

LED LOGIC

	LED	STATUS
	White Solid	Lights are on*
	Orange Solid	Low voltage*
	Yellow Solid	Over current
	Purple Solid	Short circuit

Note: All fault indication LEDs will remain on for 30 seconds after the interior lights turn off.

*LEDs and trailer interior lights will flash as a warning to indicate when the trailer lights will shut off.

- When there are 3 minutes left before the trailer lights turn off, the LED and trailer interior lights will flash 3 times.
- When there are 2 minutes left before the trailer lights turn off, the lights will flash twice.
- When there is only 1 minute left before the trailer lights turn off, the lights will flash once.

If the flashing LED lights are white, the time for the trailer interior lights to be on has almost reached its limit.

If the flashing LED lights are orange, the battery voltage is low and the trailer interior lights will be shut off to protect the batteries.

ONECONNECT WITH INTERIOR LIGHT CONTROL

PART LIST



Part#: ONECONNECT-1 LC

OneConnect, 7-way with Light Control



Part#: NB00041

Receptacle, Nylon 7-way with #10-32 Studs - Solid Pins



Part#: 900-9

Nosebox, 7-Way Receptacle and Support PCBA Replacement Kit for Single Lid



Part#: 800-86

OneConnect, 7-Way with Lights Lid



Part#: ONECONNECT-2 LC

OneConnect, Dual Pole with Light Control



Part#: NB00048

Receptacle, Nylon Dual Pole



Part#: F00026

Fuse, 200 AMP Mega



Part#: 800-88

OneConnect, Dual Pole with Lights Lid

ONECONNECT WITH INTERIOR LIGHT CONTROL



Part#: ONECONNECT-3 LC

OneConnect, 7-way with Dual Pole with Light Control



Part#: 800-87

OneConnect, 7-way/dual pole with lights lid



Part#: 900-10

Nosebox, 7-Way Receptacle, and Support PCBA Replacement Kit for Dual Lid



Part#: ONECONNECT-4 LC

OneConnect, Dual/Single Pole Combo with Light Control



Part#: NB00053

Receptacle, Nylon Single Pole



Part#: 800-89

OneConnect, Single Pole/Dual Pole
with Lights Lid



Part#: H-00522

Harness, 50 ft Interior Light Source



Part # 300-43

Guide, Installation, OneConnect with
Interior Light Control

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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.



WATT Keeps You Trucking