



# JACOBY•TARBOX

## Phaeton XTL Xtreme Tank Light

### INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

Section:	<b>T500</b>
Bulletin:	<b>T500.6</b>
Date:	<b>03/08</b>
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#### To place the *Phaeton XTL* into Service:

**CAUTION:** All lights are tagged with the service conditions for that particular unit. These specifications are located on the Jacoby•Tarbox tag on the power supply housing and are contained in the "Specifications" section of this manual. Do not use or refer to specifications listed on the red label on the power supply housing. Those specifications are specific for the enclosure only! Review the ratings prior to installation and start-up to ensure proper operation for the installed environment. Should there be any doubt pertaining to the application of a unit for the installed environment, consult the factory before placing the unit into service.

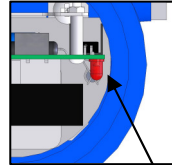
**NOTE:** All installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.

1. Place the Light Ring directly onto the desired window.
2. Hold the Light Ring in place and pull the Mounting Bracket beyond the perimeter of the Window's Retaining Flange. The opening in the Bracket should allow it to slip over the Retaining Flange. The Thumbscrew should be pointing away from the window. Repeat this step for the other two (2) Mounting Brackets.
3. Once all three (3) Mounting Brackets are in place, tighten all Thumbscrews to secure the Light Ring.
4. Remove the plug in the 1/2" NPT conduit connection. Open the housing. The Power Supply has a 2-position terminal block, ready to connect to the customer's power. All electrical specifications must comply with NEC guidelines. After connecting the power, close the housing.
5. **IMPORTANT:** The customer must have a conduit sealing fitting within 18" of the Power Supply.

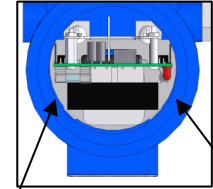
**CAUTION:** Verify that the area is free of flammables before continuing.

7. Turn the power on, then connect the light ring to the power supply using the supplied DC power cord. The Phaeton XTL should be lit. **Warning:** To avoid possible damage to eyes, do not look directly into the Phaeton XTL light ring. If the cable will not reach the Power Supply, contact your local representative for the required DC extension cord.
8. If the Phaeton XTL is not lit, check the connections between the Light Ring and the Power Supply and check the power source. If Light Ring remains unlit, turn the power source off and disconnect the unit from the power source. **IMPORTANT: Take the Power Supply and Light to a non-hazardous environment. DO NOT REMOVE THE COVER IN A HAZARDOUS LOCATION WHEN POWER IS ON.**

9. Remove the Power Supply cover and connect the Power Supply to a power source in the workshop. An LED will be lit if it is wired correctly. If the LED is not lit, check the (3) fuses and replace as needed. If the LED remains unlit, call the factory for more support. Once the LED is lit, replace the cover on the Power Supply and install the equipment in its working positions as described in the previous procedures.



Power  
LED



1 Fuse  
this side.  
2 Fuses  
this side.

#### Storage and Handling:

**Jacoby•Tarbox Phaeton XTL Xtreme Tank Lights** meet or exceed all applicable specifications when they are shipped from the factory. Although this unit is called a tank light, it can be applied in many different applications where light is required.

All units should be inspected upon receipt to ensure that no damage has been incurred during transit. If damage has been incurred, a claim should be filed with the carrier immediately. Units should be stored in an area protected from the elements and corrosive fumes in a secure manner. Care should be taken to protect the window and the end connections from damage. Avoid placing any objects directly on the light at any time.

#### Operation

*Phaeton XTL* Series Tank Lights run continuously. The operating life of the LED's is 100,000 hours (over 10 years) under normal conditions. Customers may install a switch or timer if desired. **Do not install any components between the sealing fitting and Power Supply.**

#### Routine Maintenance

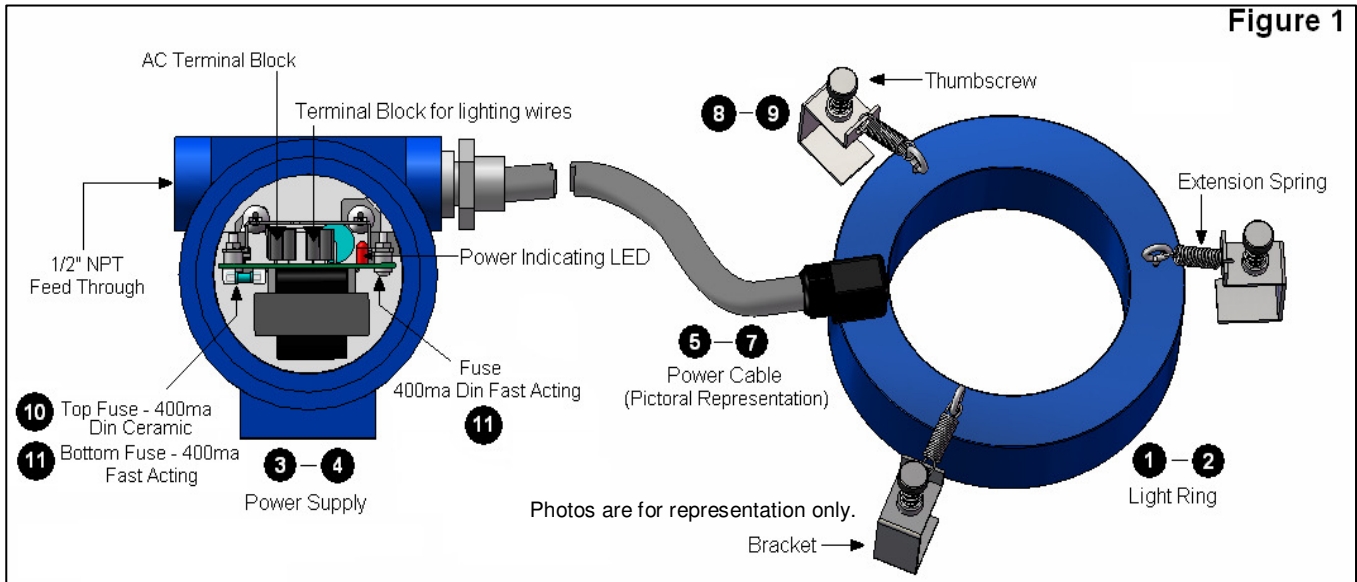
Keep the window on the front of the Light clean using commercial glass cleaners, such as Windex® or similar. Never use harsh abrasives, wire brushes, metal scrapers, or any material that could scratch the window. The window may be cleaned while the unit is in operation.

The Light may be removed while the unit is in operation during inspection or maintenance of the customer's sight window or sight flow indicator. The Light Ring may also be disconnected from the Power Supply, if desired. Disconnect the DC Power Cord at the supplied screw connector adjacent to the Power Supply. The power going to the power supply does not need to be disconnected.



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**Figure 1**



Associated Equipment [Exia]

## *Phaeton XTL* Replacement Components (See Figure 1)

- |  |                  |
|--|------------------|
| 1. 4" Light Ring   | (TIK-PH4-RING-L) |
| 2. 6" Light Ring   | (TIK-PH6-RING-L) |
| **For Stainless Steel Light Ring replace "L" with "S".               |                  |
| 3. 120VAC Power Supply   | (TPS-4856-120)   |
| 4. 240VAC Power Supply   | (TPS-4856-240)   |
| 5. 6.5' DC Power Cord  | (V20601-6.5)     |
| 6. 16' DC Power Cord   | (V20601-16)      |
| 7. 32' DC Power Cord   | (V20601-32)      |
| 8. Bracket Kit for .500" - .875" Thick Retainers                     | (TPH-BRKT-1)     |
| 9. Bracket Kit for .875" - 1.25" Thick Retainers                     | (TPH-BRKT-2)     |
| **For all stainless steel Bracket Kit add "S" to end of part number. |                  |
| 10. 400 mA Fuse Ceramic  | (E-F-DIN-F400MA) |
| 11. 400 mA Fuse Fast Acting  | (E-F-DIN-F400SP) |

**WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.**

Note 1: Multiple DC Power Cords may be supplied, depending on the required distance between the Light Ring and the Power Supply. The maximum distance between the Power Supply and the Light Ring is 72'.

### Specifications

Power Supply	120 or 240 VAC @ 50-60 Hz
Power consumption:	< 1.0 Amp @ 120 VAC < 0.5 Amp @ 240 VAC
Estimated service life:	100,000 Hours (continuous)
Agency Approvals:	FM AND CSA Class I, Div 1, Groups B, C, D, T4 Class II, Div 1, Groups E, F, G, T4
Wire Size:	Min 18 AWG / Max 12 AWG
Max distance from Power Supply to Light:	72' (22m), Standard Cable= 8' (2.5m)
Cable Inductance:	0.12uH/ft (0.036uH/m)
Ambient Temperature:	-40°F (-40°C) to 122°F (50°C)

### NOTES:



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