Pictogram Steel Combination unit

With built in LED Heads

WARNING:
Risk of Shock.
Disconnect Power before Installation.

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. All servicing should be performed by qualified service personnel.
2. Do not use outdoors.
3. Do not let power supply cords touch hot surfaces.
4. Do not mount near gas or electric heaters.
5. Use caution when handling batteries. Avoid possible shorting.
6. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
7. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
8. Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS

Installation Instructions

1. Turn off AC power.
2. Route AC supply wires into electrical box and leave 15 cm (6") of wire length.
3. To open the unit, remove the screws from the end cap (see figure 1) and slide out the clear panel with border, the two pictogram panel(s) and the opal diffuser (note sequence of panels removed).

Wall Mount (Figure 2)

a. Knock out the proper hole pattern in the back plate to mount to the standard junction box (including the large wire hole); place a support on either side of the hole to be removed and knock out with a screwdriver.
b. Feed AC supply leads through the center hole.
c. Mount the exit sign securely to the junction box using the junction box screws (see figure 2).
d. For special power pack mounting only. Knock out the 3 holes in the back of the power pack. The large hole located beside the charger is for the AC supply leads. The two smaller holes located on top of the battery are to be used to securely mount the unit to the wall.

Canopy - Ceiling or End mount (Figure 3)

a. Determine the desired mounting location of sign.
b. Remove the proper knockouts in the housing from the outside with a hammer and screwdriver.
c. Route the AC wires from the exit sign through the large knockout. For ceiling mount, make sure backplate is mounted so that the pictogram panel face will be in the desired direction.
d. Fasten the spider plate to the junction box using the junction box screws. Align the two threaded holes in the spider plate to line up with the canopy holes for correct mounting position: end mount or ceiling mount.
e. Fasten the canopy to the housing (see figure 3). Knock out the two holes near the wire way. Fasten the canopy-housing assembly to the spider plate using the provided 1 1/2" screws.

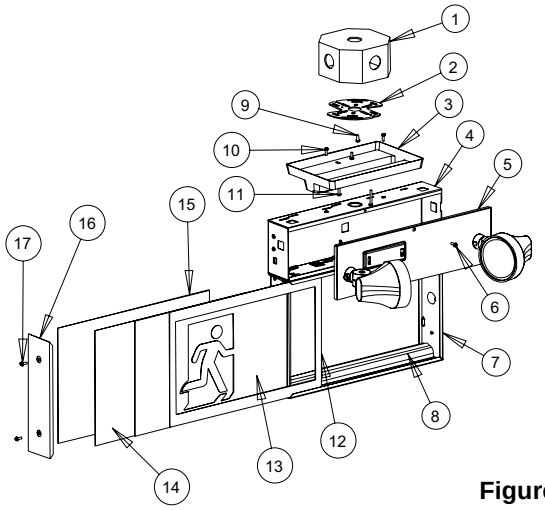

Figure 1

Parts List

1. Junction box (not provided)
2. Spider plate
3. Canopy
4. Power Pack
5. Power Pack cover
6. Power Pack cover screw
7. Housing
8. LED strip
9. Junction box screws (not provided)
10. Screws #8-32 x 3/8" (2)
11. Screws #8-32 x 1 1/2" (2)
12. Clear panel with border
13. Pictogram panels (2)
14. Opal diffuser
15. Back Plate
16. End Cap
17. Finishing screws (2)

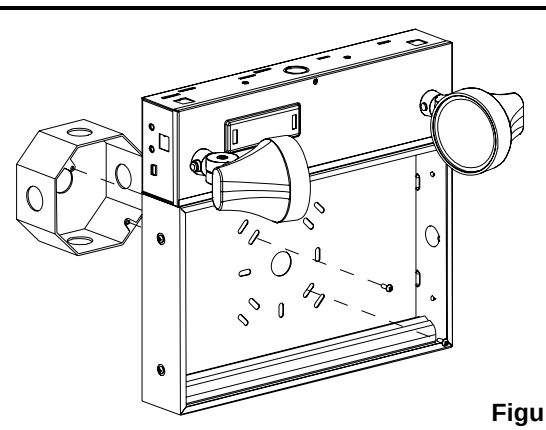
Figure 2

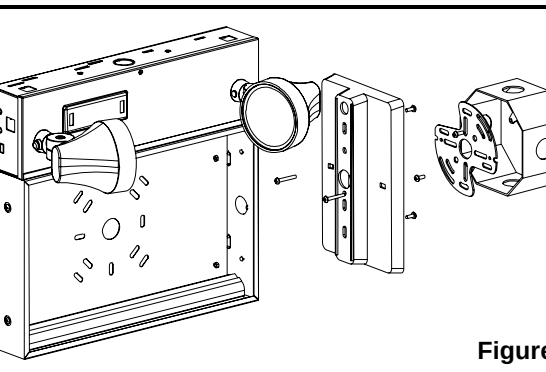
Figure 3

4. Make the proper connections: the unit accepts an input voltage of 120 and 347 VAC.
   For 120VAC operations: connect the black wire to AC line voltage (120VAC) and the white wire to neutral.
   For 347VAC operations: connect the red wire to AC line voltage (347VAC) and the white wire to neutral (see figure4).
5. Connect the green ground wires to the service ground or the ground connection in the junction box.
6. Feed excess wire into the junction box.
7. When ready to energize AC, plug in the battery connector to the circuit board. Connect the battery and turn on AC power within 6 hours.
8. Select the proper pictogram panel (see figure 5). Slide the clear panel in first then slide the pictogram panel behind the clear panel. Slide in the opal diffuser behind the pictogram panel
9. Slide the back plate, if removed, into the housing. Then reinstall the end cap.
10. Energize AC power.

Adjust the lamp head (Figure 6)

Rotation: loosen the rotation screw, turn lamp head to desired location. Tighten rotation screw to lock position.

-Note: The lamp head can be rotated 150° to either side.

Tilting: loosen tilt screw, hold the lamp head and tilt it up or down. Tighten tilt screw to lock position

Intentional AC Shutdown

If the AC input power is intentionally turned off for more than 72 hours, disconnect one battery lead to prevent damage to battery. Isolate loose battery lead so that it cannot be inadvertently shorted.

Battery Replacement

A battery has reached the end of its useful life when it cannot light lamps for full time rating despite normal charger operation. To replace battery, first disconnect AC power to unit, open unit, disconnect battery leads, then remove it and install new battery. Make sure the red lead connected to battery positive is also connected to charger positive (+) terminal. After unit has been on charge for 24 hours at nominal AC voltage, check that battery voltage is within limits.

Refer to markings on battery or unit model for correct replacement type.

Lamp Replacement

It is important to replace burned lamp with a new lamp with the same voltage and wattage. Higher wattage will cause battery to discharge faster (less time) or overload relay. Lower wattage may not provide adequate light output.

Testing

Once every 3 months the unit should be checked and then tested for at least 30 seconds by using the test switch or disconnecting the plug or pulling the fuse or breaker. Before testing, the green pilot light should be “on” and the yellow high charge lamp (when supplied) will "wink on" occasionally. After the power has been restored the high charge light will stay “on” for several minutes then start to “wink” indicating the battery is up to full charge. Once every year, the unit should be tested under simulated power failure or electrical fault condition for the time period required by the National Building Code, i.e. 30 min - 1 hr - 2 hrs. After power has been restored, unit will go on high charge for up to 24 hours. If a power failure has occurred recently and the unit worked properly, it is not necessary to perform the simulated failure. Indicate on the charts (see figure 7) the date of the failures and/or tests performed.

Caution

The battery in this unit will hold charge until the date shown on the carton. After this date, the unit must be plugged in and battery connected to charger for at least 24 hours to recharge battery. Battery shall then be disconnected. Shelf life will then be good for six months before recharging again. If the unit is not placed into service or re-charged by the date shown on the carton, warranty will be void. The AC power supply shall be unswitched, otherwise warranty will be void. This unit is designed to operate between 10°C and 30°C (50°F and 86°F). Operating temperatures outside those limits will void warranty.

Warranty: For the complete warranty information, please refer to the home page of our website (http://www.tnb.ca/en/products/emergency-lighting/).

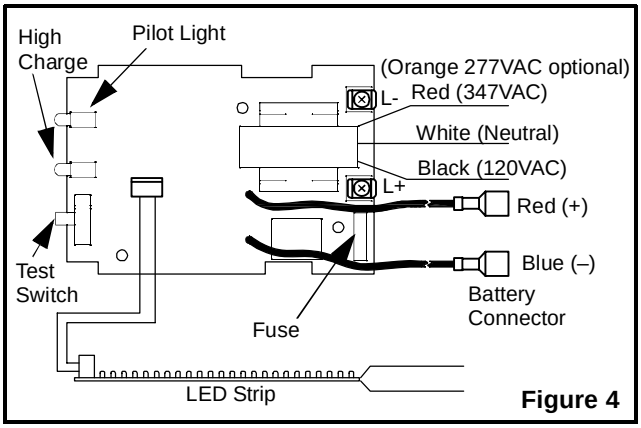

Figure 4

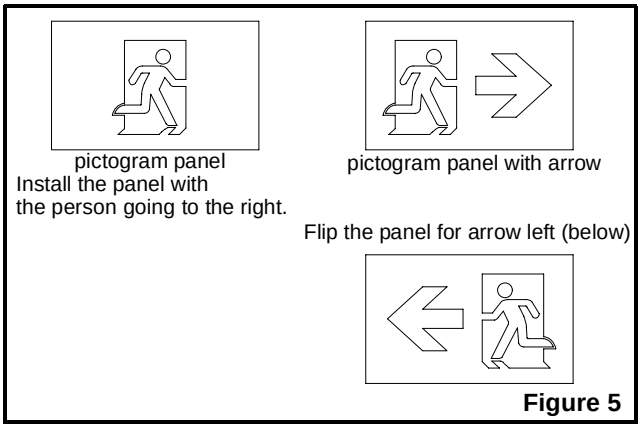

Figure 5

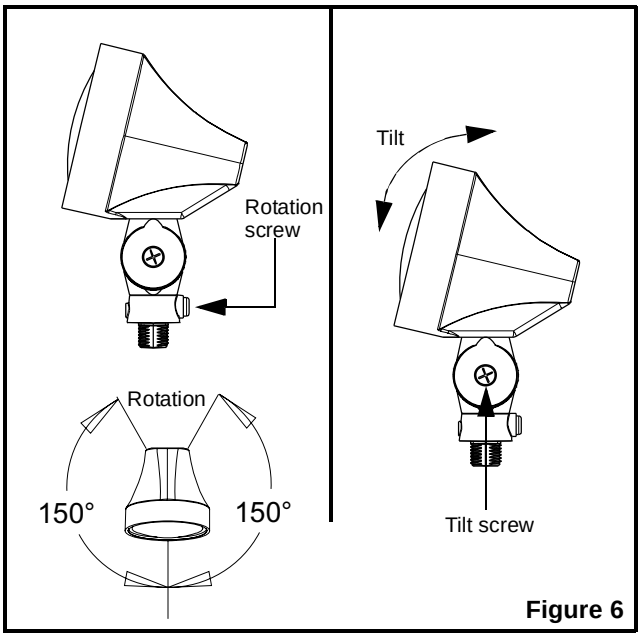

Figure 6

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Figure 7