

CK

Purpose: To provide instructions for relocating the hard mounted emergency light fixture in the Containerized Kitchen. This is necessary when replacing refrigerators NSN 4110-01-486-4390 and NSN 4110-01-486-4388 with refrigerators, NSN 4110-01-587-7282 and NSN 4110-01-587-7296 due to the increased height of the replacement refrigerators.

Scope: This instruction defines the procedure and material needed to relocate the CK hard mounted fluorescent light located above the personnel door entrance (emergency light fixture). The modification involves removing the ceiling mounting brackets from the light fixture, replacing a straight liquid tight connection with 45 degree connectors and mounting the light directly to the ceiling. This modification should require about 90 minutes and should only be made by qualified personnel. A helper is required to support the light during the procedure.

NOTE: Not all Containerized kitchens will require this modification. To make this determination, see figure 3 which shows the completed modification. If your emergency light is mounted directly to the ceiling as in figure 3, your CK has been modified and no further action is required. See Figure 1 for the location of the emergency light.

Tools and materials: The following tools and material are required to perform this modification:

Cross tip screwdriver #2

Cross tip screwdriver #3

Channel- lock pliers, 2 each

Electric drill

#21 drill bit (or 5/32")

Box, electrical connector, 45 degree, NSN 5975-00-952-0021, CAGE 03743, Part No. STB-4550, 2 each

Liquid Tight Flexible Steel Conduit, ½" trade size, 0.63" ID, 0.83" OD, part number 7127K2, CAGE 1BD74, cut to length, approximately 2 ½ inches required.

Procedure:

1. Shut off all power to the unit at the source and tag the source to prevent accidental re-application of power.
2. Open the wiring compartment to the three hard mounted light fixtures along the center of the CK shown in figure 1 to gain access to the wiring.

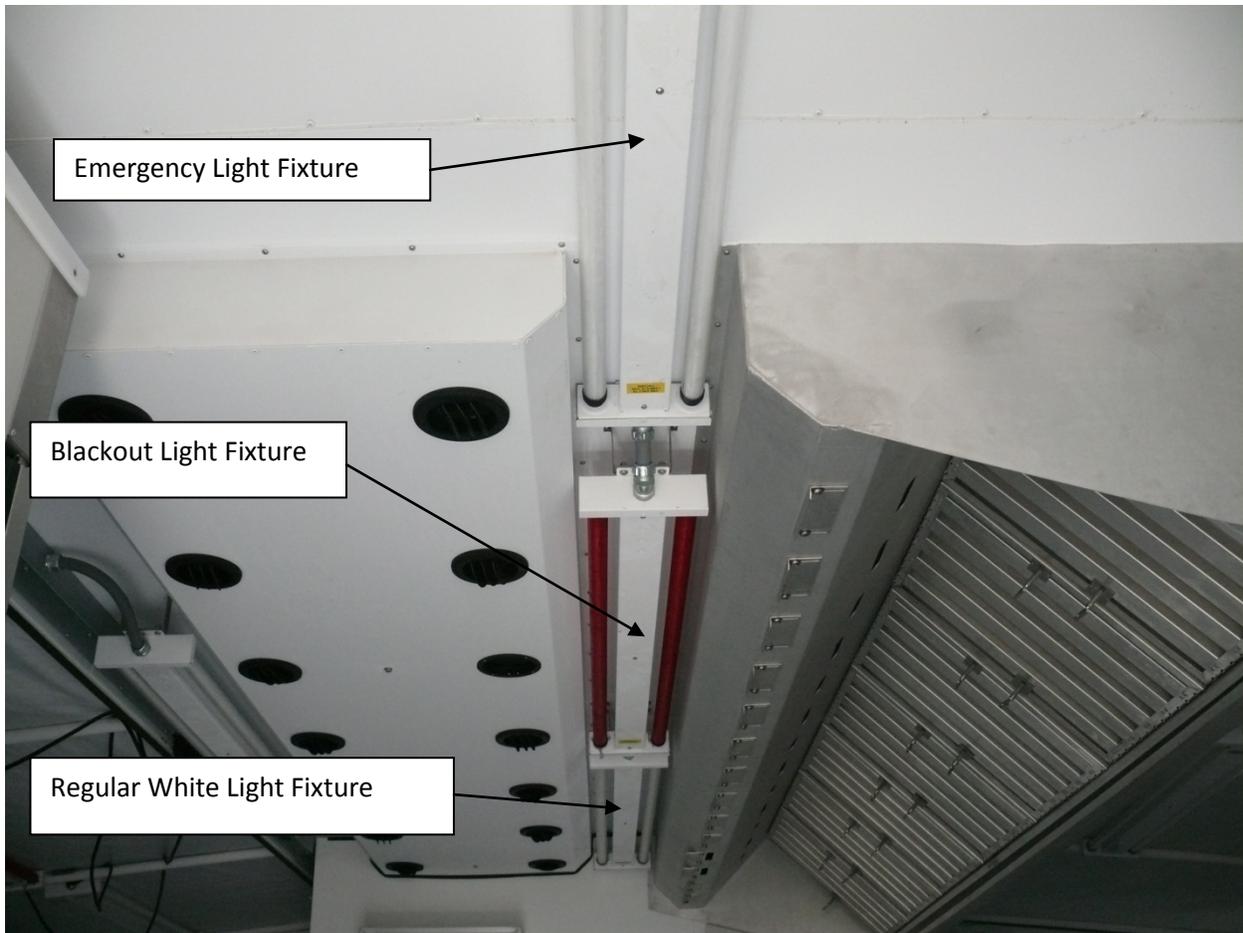


Figure 1: Position of emergency light, blackout light, and regular white light fixtures.

3. Identify, mark, and disconnect the black (supply) wires for the blackout and regular light transformer leads. See figure 1 for the location of the blackout and regular light fixtures.
4. Disconnect the green (ground) wire and white (neutral) wire from the blackout light transformer.
5. Pull wires back into the emergency light.
6. Loosen the liquid tight conduit nuts that connect the liquid tight conduit between emergency and blackout fixtures (figure 2).

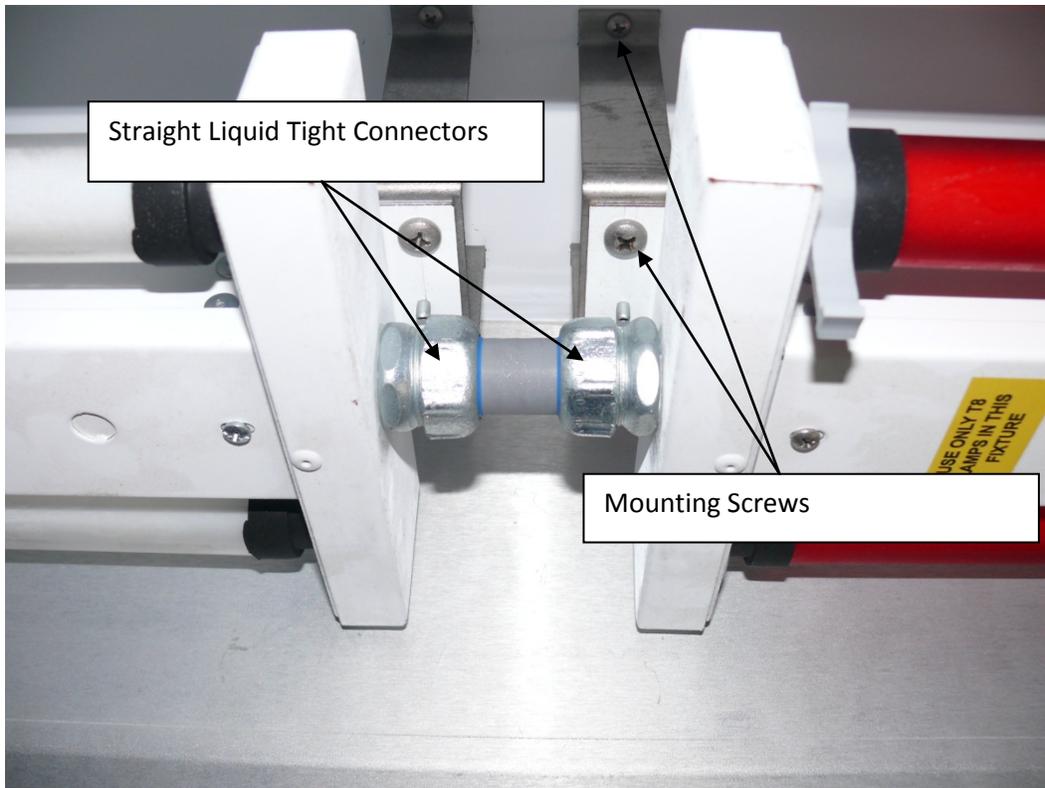


Figure 2: Position of Straight Conduit Connectors and Mounting Screws.

7. With one person holding the emergency light remove the 8 mounting screws and retain the screws that held the bracket to the ceiling.
8. Remove the emergency light ceiling brackets and discard.
9. Push the emergency light toward the electrical raceway to disconnect from the liquid tight fittings.
10. Remove the liquid tight fittings from the light fixture and retain the liquid tight conduit.
11. Install a 45 degree conduit fitting to the emergency light fixture as shown in figure 3 and tighten the fitting to the fixture.



Figure 3: Completed Installation of 45 degree connectors and fixture mounted to ceiling.

12. Cut the liquid tight conduit to the appropriate length and install it into the emergency light fitting. Loosely install the other fitting onto the conduit.
13. Place the emergency light directly on the ceiling with the 45 degree fitting appropriately fit to the blackout light fixture. Mark the mounting holes.
 - a. NOTE: It may be necessary to loosen the conduit connector located nearest the personnel door to place the fixture on the ceiling.
14. Drill four pilot holes using the #21 twist drill (or 5/32" if #21 is not available).
15. Use the four #10 x 3/4" pan head screws and washers retained in step 9 to attach light to the ceiling as shown in figure 3.
16. Tighten all fittings and liquid tight connectors.
17. Run supply, neutral, and ground wires through conduit and reconnect the wiring.
18. Attach the fixture covers.
19. Turn on power and test lights.