

1224, 36 & 48 INSTALLATION INSTRUCTIONS

GENERAL

1. To insure the success of the fixture installation, the following instructions and diagram(s) should be read and understood.
2. All electrical connections must be made in accordance with the National Electric code and local codes and ordinances.
If you are uncertain of the methods of installing electrical wiring and lighting fixtures secure the services of a qualified licensed electrician.
3. **TOOLS NEEDED:** Blade screwdriver, phillips screwdriver, slip joint pliers or small adjustable wrench, wire cutter/stripper, electrical current tester, stepladder and electrical tape.

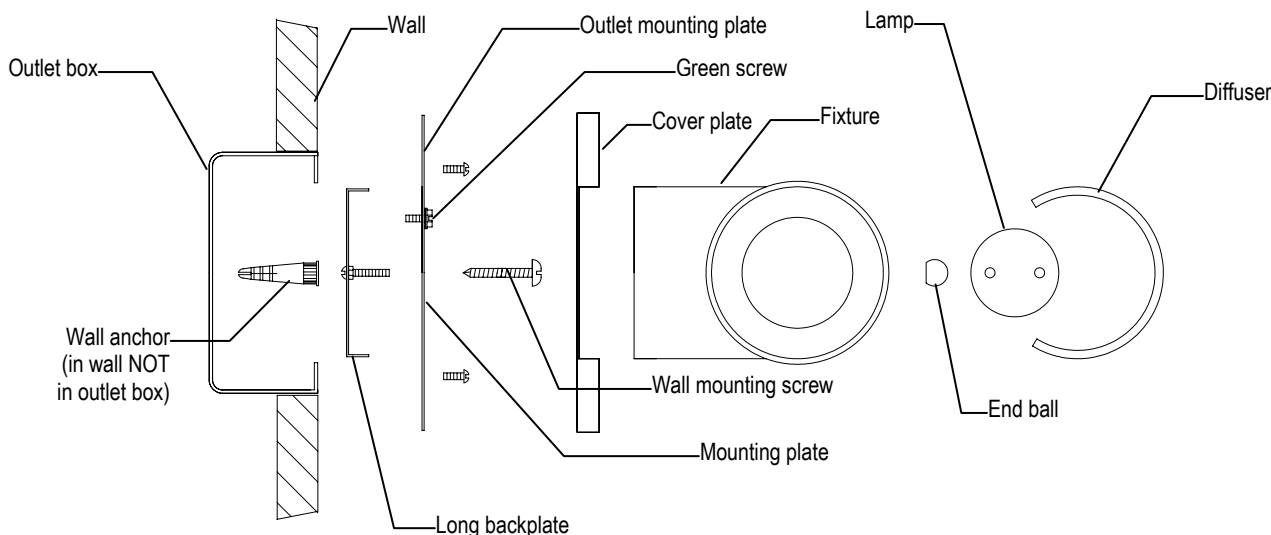
NOTE: The important safeguards and instructions outlined on this sheet are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and care are factors that cannot be built into any product. Caution and care must be supplied by the person(s) installing, operating and maintaining this lighting fixture.

INSTALLATION PREPARATION

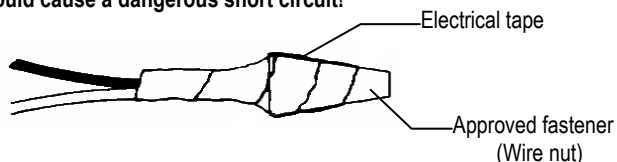
1. **TURN OFF THE ENTIRE ELECTRICAL CIRCUIT TO WHICH THE LIGHTING FIXTURE IS TO BE ATTACHED.**
Move the appropriate circuit breaker to the "off position or completely remove the fuse controlling the circuit.
2. If an existing fixture is being replaced, remove it and note to which of the wires in the outlet box the fixture was attached.
DO NOT SEPARATE ANY OTHER WIRES THAT MAY BE IN THE BOX. DO NOT DAMAGE THE INSULATION OF OLDER WIRING.
In regular circumstances the BLACK wire will be the "Hot" lead and the WHITE wire will be the "Neutral" or "Common" lead.
A GREEN or BARE COPPER wire is the "Ground". In older buildings it is always good practice to reconfirm the polarity of the wiring.
3. This fixture is designed to be mounted on a standard round or octagon box. The box must be securely mounted to the structure of the building. The fixture may be mounted horizontally or vertically.
4. Remove the fixture and parts bag(s) from the carton. Before discarding the carton, double check packing to make certain that all parts are found.

FIXTURE INSTALLATION

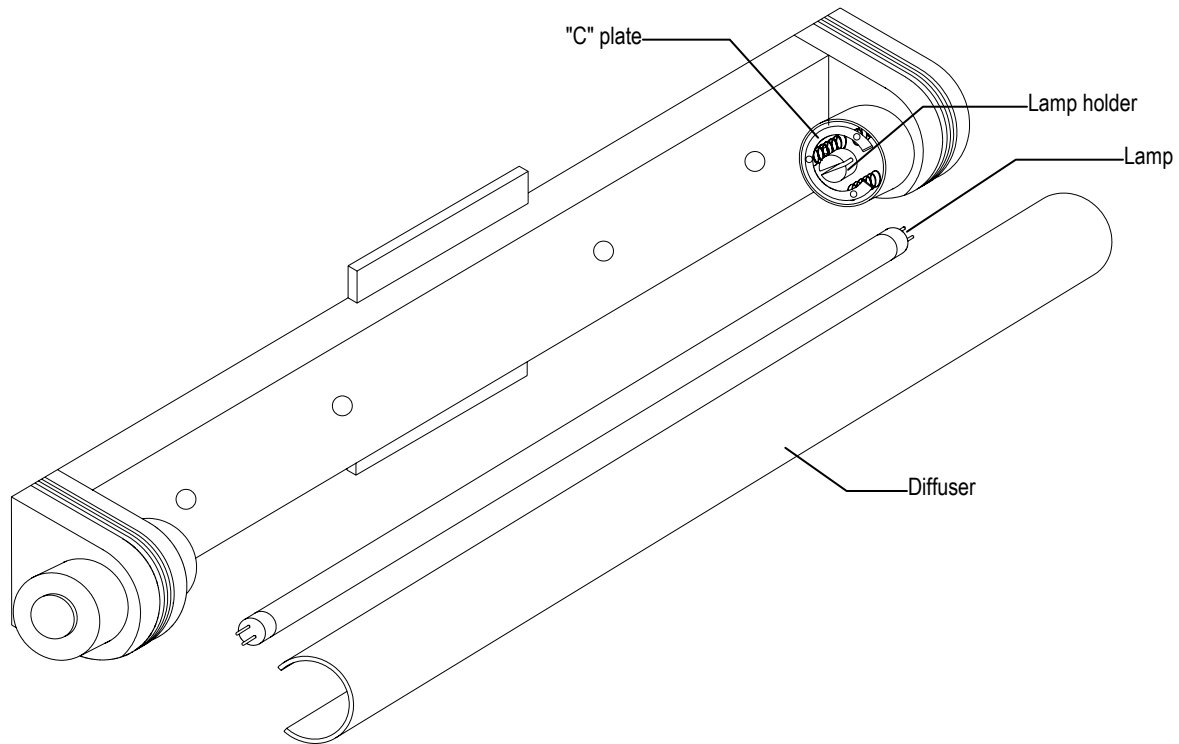
1. Remove the 4 end balls holding the fixture to the mounting plates.
2. Place the outlet mounting plate on the long backplate. Attach the outlet mounting plate to the outlet box.
Adjust the outlet mounting plate and the long backplate so that they are level or vertical.
Mark the location of the mounting holes in the long backplate.
3. Remove the outlet mounting plate and long backplate. Drill pilot holes for the screws or mounting holes for the wall anchors.
Install the wall anchors (if used).
4. Pull the wires in the outlet box through the center hole of the outlet mounting plate.
Fasten the outlet mounting plate to the outlet box and the long backplate to the wall.



5. Fasten the green fixture wire to the green or bare copper wire in the box or fasten it to the outlet mounting plate with green screw provided.
NEVER FASTEN THE GROUND WIRE TO THE BLACK OR "HOT" WIRE!
FAILURE TO FOLLOW THIS INSTRUCTION COULD RESULT IN SERIOUS INJURY OR DEATH!
6. Fasten the white fixture wire to the white wire in the outlet box.
Fasten the wires to together with an approved fastener (wire nut).
Starting about 1" below the fastener, tightly wrap connection with electrical tape so that the tape seals the end of the fastener.
Make sure that there is no exposed wire or strands that could cause a dangerous short circuit!



7. Connect the black fixture wires to the black wire in the outlet box. Fasten the joined wires as in step 6.
8. Place the cover plate over the mounting plates.
Place the fixture over the mounting plates.
Fasten the fixture in place with the 4 end balls removed in step 1.
9. Install the lamp.
Place the 2 pins on each end of the lamp in the slots in the lamp holders.
Turn the lamp 1/4 turn to lock the lamp in place.
NOTE: The lamp type is T-5
The 1224 uses a 14 watt lamp. The 1236 uses a 21 watt lamp. The 2148 uses a 28 watt lamp.
10. Position the end of the diffuser in the end holder.
Push the end of the diffuser against the spring-loaded "C" plate.
Push the "C" plate in far enough to allow the opposite end of the diffuser to be inserted into the other end holder.



11. Restore power to circuit at breaker or fuse box.