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INSTALLATION PROCEDURE

CHUTTLETRAK

CEILING TRACK MOUNT

(FOR 21st. CENTURY SERIES LIGHTS)



(Track Pictured With Lights Installed)

ChuttleTrak

CEILING TRACK MOUNT

SPECIAL NOTE: INSTALLATION AND REPAIR OF THIS EQUIPMENT SHOULD BE PERFORMED BY QUALIFIED PERSONS ONLY. MEDICAL ILLUMINATION INTERNATIONAL INC. DOES NOT WARRANTY ANY DAMAGE OR INJURIES AS A RESULT OF IMPROPER INSTALLATION.

PRE-INSTALLATION INFORMATION

TRACK MOUNT SPECIFICATIONS

Dimensions (Assembled): 5'-10 5/8" Long x 10 1/2" Wide x 5" High

Weight:-----44 lbs. Approx.

Power Requirements-----Power cable exiting the track can be connected to 115/120 VAC 60 Hz. or 230/240 VAC single phase 50/60 Hz. power. The power supply line routed to the track must be a 3 wire grounded type capable of supplying 1400 Watts at 12 Amperes. **Refer to the Model/Serial label located on the arm assembly to be mounted for proper voltage to supply to the track.**

GENERAL INFORMATION (Refer to Figure 1) The shipping carton contains the track mount fully assembled. Carefully remove the track from the container and take off the protective wrap and cardboard covering. Check it for any visible damage or missing components. The major components provided are the track assembly, trolley assembly, a wire harness and junction box. Dual trolley Model No. 044012 will have two trolley assemblies and two wire harness cables. Some disassembly of the unit is required before mounting it to the ceiling.

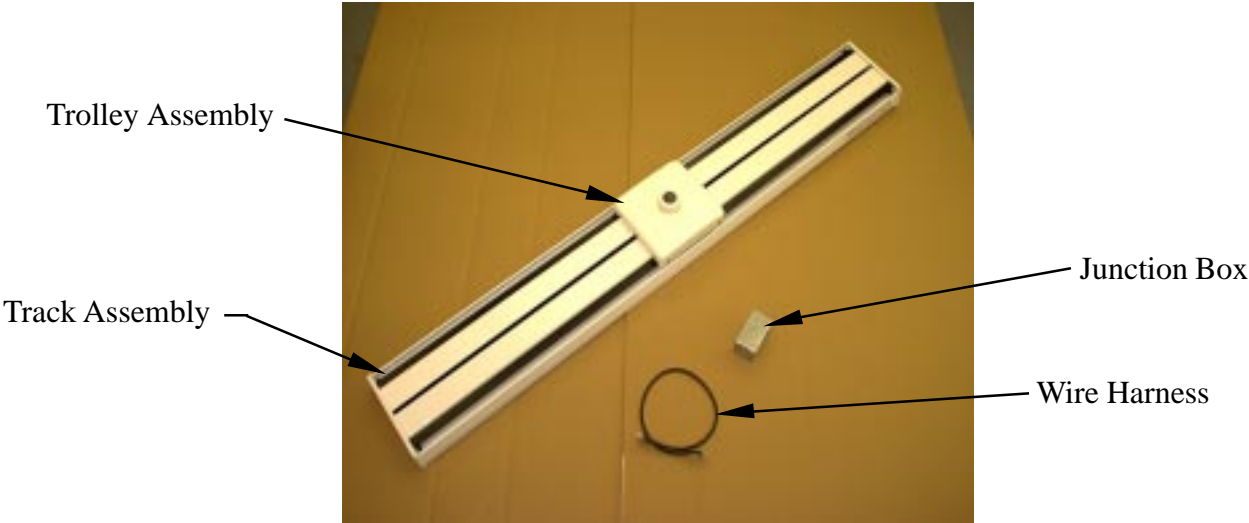


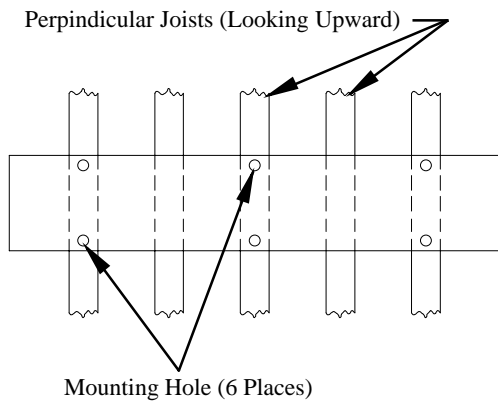
FIGURE 1

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PRE-INSTALLATION REQUIREMENTS

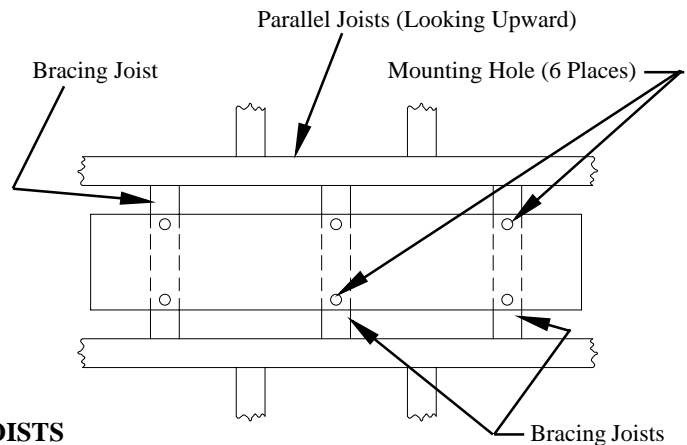
Before installation, check to insure the following conditions are provided and in place.

- A structural ceiling mount meeting the specifications of the architectural plans, or suggested structural mounting shown in Figures 2 through 5. The installation must be capable of supporting a weight of at least 200 pounds and a load of 167 pounds at 30” off center.
- The track mount should not be mounted higher than 9 feet 6 inches (9 1/2 feet) above the floor. The track mount must be mounted at the finished ceiling level whether the ceiling surface is solid or “dropped” type. Mounting the unit higher than 9 1/2 feet may result in instability of the light system and the arm assembly mounted too high to be accessible.
- Check the length of the ceiling rod supplied (Located in the carton with the light Head and Arm). The rod lengths available for the ChuttleTrak are 16” long for a mounting height of 7 feet 6 inches to 8 feet 6 inches. A 25” long rod is available for a mounting height of 8 feet 7 inches to 9 feet 6 inches. If a problem occurs, contact our customer service department at (818) 838-3025.
- The mounting bolts used to fasten the track must be able to support a minimum of 200 pounds each. (3/8” diameter bolts are required).



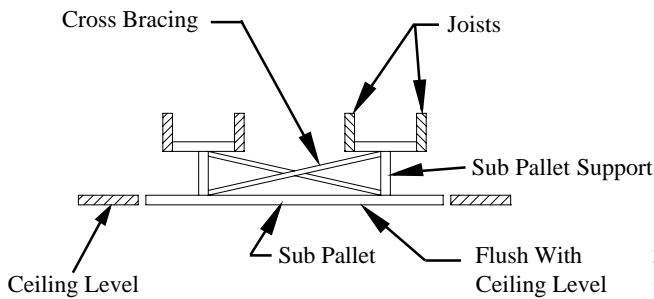
MOUNTING PALLET PERPENDICULAR TO WOOD JOISTS

FIGURE 2



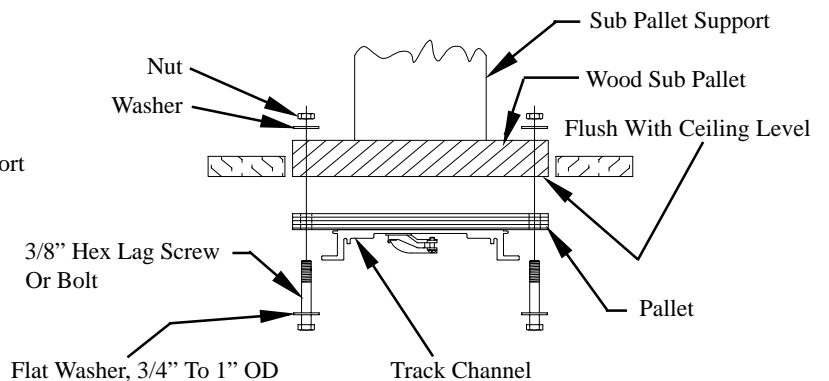
MOUNTING PALLET PARALLEL TO WOOD JOISTS

FIGURE 3



MOUNTING PALLET TO A SUSPENDED CEILING

FIGURE 4



SUSPENDED CEILING WOOD BRACING DETAIL

FIGURE 5 (END VIEW)

DISASSEMBLY OF THE TRACK MOUNT BEFORE INSTALLATION

NOTE: For installations where there are 2 trolley assemblies on a single track (Dual Trolley Model No. 044012), The left and right trolley must be removed from the track from their respective side. When disassembling the track, remove both end plates from the unit. Remove the right trolley from the the right side and the left trolley from the left side of the track. **IMPORTANT:** Care must be taken to avoid mixing the right and left trolley assemblies. The cord bracket within each trolley is positioned to make electrical connection for the right and left light fixtures respectively. Temporarily mark each trolley if needed to make sure they are assembled onto the track in the proper location and orientation.

When performing this procedure **DO NOT** disassemble the components of the trolley assembly or remove the track extrusion channel from the plywood pallet.

Step 1. (Refer to Figure 6) Take the end plate off of one side of the track by removing the 2 screws.

Step 2. (Refer to Figure 7) Take off the 2 side panels by removing the wood screw at the end of each panel.

Step 3. (Refer to Figure 8) Loosen the 3 set screws along each side of the track channel extrusion. (Use the hex Allen wrench provided). Remove both dress covers. Keep the side panels and dress covers in a safe place to prevent damage until reassembly.

Step 4. (Refer to Figure 9) Remove the 2 stop pins and the flat head screws holding them in place from the track end that has the end plate removed. **Secure all screws and hardware until it is time for reassembly.**

Step 5. Slide the trolley assembly off of the track.

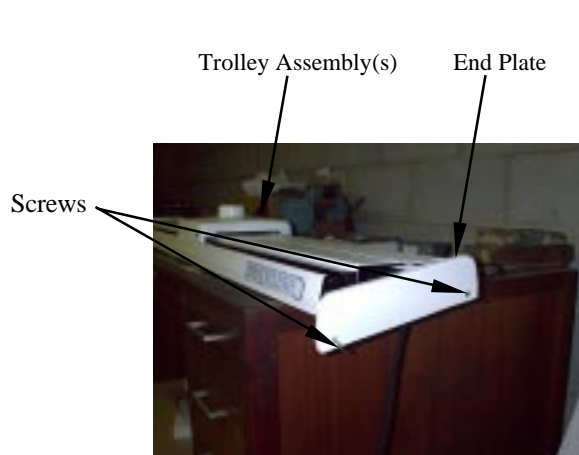


FIGURE 6

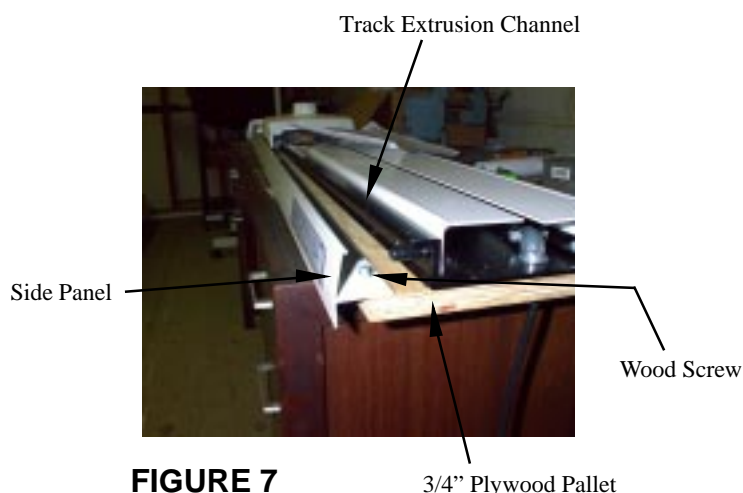


FIGURE 7



FIGURE 8



FIGURE 9

TRACK MOUNT INSTALLATION PROCEDURE

WARNING

IMPROPER FASTENING OF THE TRACK MOUNT CAN CAUSE SERIOUS INJURY AND/OR PROPERTY DAMAGE. MAKE CERTAIN THE INSTALLATION IS CAPABLE OF SUPPORTING A WEIGHT OF AT LEAST 200 POUNDS ON CENTER AND A LOAD OF 167 POUNDS AT 30" OFF CENTER.

Step 1. (Refer to Figures 2, 3 & 10) It is recommended that the head of each mounting bolt be recessed flush or just below the surface of the plywood pallet. This will allow for easier assembly of the side panels once the track is mounted. Drill (6) 7/16" diameter clearance holes in the plywood pallet for the bolts. Counterbore the holes to 1" diameter x 3/8" deep. The holes should be evenly spaced along the pallet at the outside edge of the track base extrusion. **NOTE:** The fasteners can also be placed in the interior of the track extrusion if ceiling conditions do not allow mounting the fixture at the plywood pallet.

Step 2. Mark the hole locations on the ceiling structure to match the hole locations on the plywood pallet. Drill the proper sized pilot or clearance holes in the ceiling structure depending on the type of fastener that has been chosen.

Step 3. (Refer to Figure 11) **This step requires two people to mount the track base.** One person is needed to support the fixture at the ceiling while the other person fastens the bolts. **IMPORTANT NOTE:** Proper movement of the trolley requires the track must be mounted to a level ceiling structure. Check the ceiling with a leveling device in the length and width directions before mounting the base. Install the base to the desired location with (6) 3/8" diameter x 4" (minimum length) hex bolts with flat washers or hex lag screws with washers (Fastening hardware is **not** provided). If a small amount of shimming is required (1/4" or less), flat washers can be placed between the track pallet and the ceiling surface to achieve a level installation.

Step 4. An electrical junction box is provided if one is not available in the ceiling. Fasten the box as close as possible to the power cable exiting the back of the track. Route the cable from the track to the junction box then connect the power source to the cable. **NOTE: A ground wire is provided and must be fastened to an earth ground to insure proper grounding reliability for the lighting fixture(s). Wire routing and connections must be done in accordance to local and national electrical codes.**

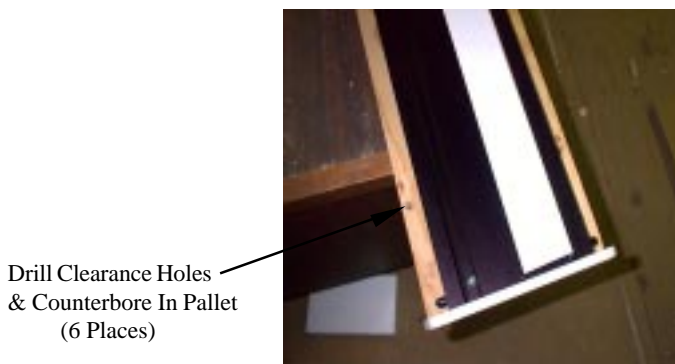


FIGURE 10

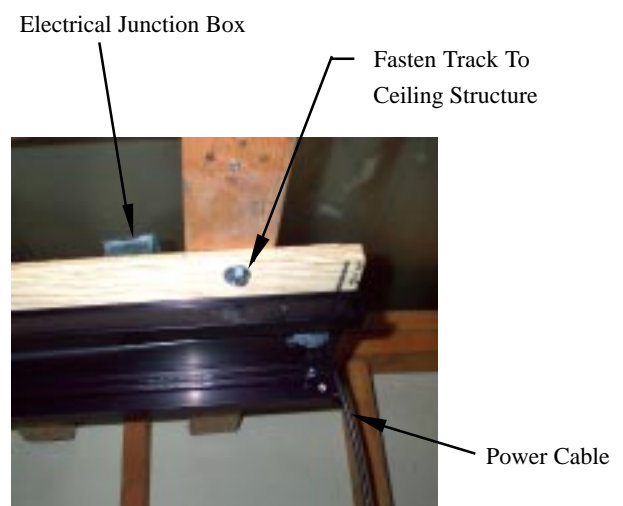


FIGURE 11

TRACK MOUNT INSTALLATION PROCEDURE

Step 5. (Refer to Figure 12 & 13) Remove the 1/4" x 2" roll pin taped down in the trolley assembly. Insert the pin into the ceiling rod end that has one hole in both walls. The pin should extend the same amount on both sides of the ceiling rod. Install the ceiling rod into the trolley and allow the roll pin to rest in the indentation in the trolley. **WARNING: Failure to install the roll pin correctly can cause serious injury and/or property damage.** Secure the ceiling rod by tightening the 4 set screws in the trolley hub. Insert the wire harness through the ceiling rod. The large Molex connector must be located at the roll pin end. Insert the Molex connector into the cord bracket until it locks in place.

Step 6. Slide the trolley and rod onto the track. The cord mounting bracket in the trolley should be positioned so it is next to the Molex connector on the power cord. Insure that the trolley rolls freely along the track. If adjustment is necessary, refer to Figure 14. Loosen the adjustment screws and position the side rollers against the base track extrusion. Tighten the screws.

Step 7. (Refer to Figure 15) **IMPORTANT NOTE: When performing this step it is critical that the power cord does not get twisted when attaching it to the cord bracket.** Make sure the power cord lays flat within the track. Make a simple radius turn in the cord then attach the Molex connector to the mating connector from the wire harness. The power cord should maintain the radius as the trolley is rolled along the track. If this does not occur, check the cable for twists or pinching. **It is important to correct the problem before proceeding with the installation.** If the cord does become twisted, loosen the cable clamp at the center of the track. Rotate the cord until it lies flat inside the track. Tighten the cable clamp then check the trolley and cord movement.

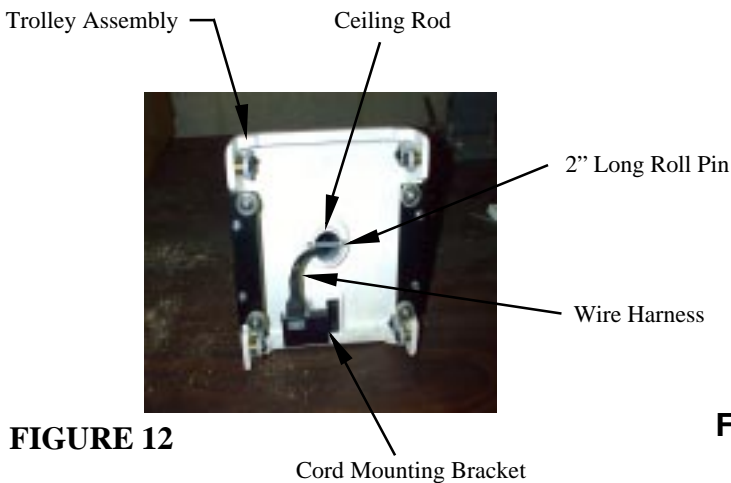


FIGURE 12



FIGURE 13

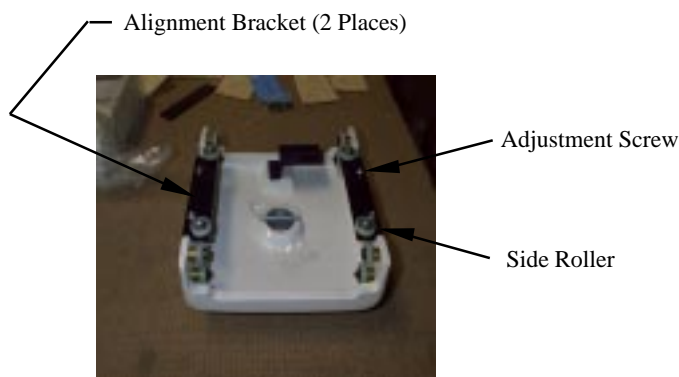


FIGURE 14



FIGURE 15

Step 8. If the power cable and trolley move properly along the track, replace the 2 stop pins and screws at the open track end. **Carefully** slide the center dress covers through the trolley. **Avoid damaging the trolley components, wire connections or the covers as you position them in place.** Tighten the 3 set screws along both sides of the track to secure the covers in place.

Step 9. Position each side panel and fasten in place with the wood screws. The holes in the side panel have to be oriented to match the holes in the pallet before fastening. **NOTE: If the bolt heads were not previously set flush with the plywood, clearance holes need to be drilled in each panel to allow them to sit against the plywood pallet.**

Step 10. Fasten the end plate with the 2 screws previously removed.

To install the light fixture to the end of the ceiling rod, refer to the **“Installation and Service Manual for The 21st. Century Series”** supplied with the light. If 1 light fixture is to be mounted to the rod, refer to **“Single Ceiling Mount Installation”** section. When 2 light fixtures are to be mounted to the ceiling rod, refer to the **“Dual Ceiling Mount Installation”** section.