

ERECTING FRAMES
SHEET METAL BOX TYPE
USING R-2842 AND R-3402 DOLLY TRUCK

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1.	<u>GENERAL</u>	3.	<u>PLANNING</u>
1.1	<u>Scope</u>	3.1	The R-2842 Dolly Truck is used in No. 5 X-Bar Offices which have a normal superstructure height of 11'-9-1/2.
1.11	This section covers installing procedures for erecting sheet metal box type frames with the R-2842 and R-3402 Dolly Trucks.	3.2	The R-3402 Dolly Truck is primarily used in central offices where auxiliary superstructure is less than 11'-9-1/2.
1.2	<u>Precautions Against Personal Injury and Equipment Damage</u>	3.3	In setting up new lineup for No. 5 X-Bar Frames, planning should be made to see that superstructures for supporting ladder tracks, lighting fixtures and etc., be temporarily installed at 11'-9-1/2, so that preferred Dolly Truck (R-2842) can be used. If feasible, limit the use of R-3402 Dolly Truck. This Dolly Truck has a Ball Casters Feature which when used might cause scoring of unprotected linoleum floors. Use only when adding frames to an existing line-up where removal of ladder tracks, lighting fixtures and etc. present a problem.
1.21	The precautions to be taken against personal injury and to prevent damage to equipment and service interruptions are covered in this section with the associated operations. General precautions are covered in Handbook 0 and are to be observed at all times as they apply to the particular operation being performed.		
2.	<u>INSTALLING EQUIPMENT</u>	4.	<u>GENERAL ERECTING PROCEDURE</u>
2.1	The tools listed below will be required for the specific work operations listed in this section.	4.1	<u>Hoisting Location and Facilities</u>
	R-2847 Clamp, Hoisting	4.11	Refer to Section 19A2 and determine whether job warrants a central hoisting center or an in-place hoisting location. Both methods utilize the R-3431 Portable Hoisting Bars and hoists. Construct hoisting facilities as covered by Section 19A2.
	R-3265 Guide, Chain		
	R-2849 Strap		
	R-2842 Truck, Dolly, No. 5 Crossbar		
	R-3402 Truck, Dolly, No. 5 Crossbar		

- 4.2 Unpacking and Conveying Frames to Hoisting Location
- 4.21 Convey frames from storage area using the R-2599 Pipe Frame Dolly or the R-3632 Skid Dolly in accordance with Section 19A.
- 4.3 Method of Hoisting
- CAUTION: DO NOT ATTEMPT TO USE THE R-2842 OR R-3402 DOLLY TRUCK ON FRAMES LESS THAN 1'-9" IN LENGTH DUE TO SHORT SPAN BETWEEN CASTERS WHICH WOULD MAKE OPERATION HAZARDOUS. FRAMES SHOULD THEN BE CONVEYED IN ACCORDANCE WITH SECTION 19A TO ITS FINAL LOCATION IN THE LINE-UP AND HOISTED IN PLACE.
- 4.31 Hoist the frame to a vertical position following the general methods covered by Section 19A3.
- 4.311 Hoisting Clamp - Use R-2847 Hoisting Clamp, mounted on the frame upright in the manner shown in Figure 1.
- 4.312 Chain Guide - Use R-3265 Chain Guide to prevent the chain from slipping off the top of the frame. See Figure 1.
- 4.32 Hoist the frame to a vertical position with base parallel to and about 1/2" from the floor. Secure appropriate dolly truck to it.
5. ASSEMBLY ON THE R-2842 DOLLY TRUCK TO FRAMES (FIG. 1A)
- 5.1 Instruction
- 5.11 Place one of the assemblies against the apparatus side of the frame as shown in Figure 1A.
- 5.12 Raise each caster assembly by means of the handwheels sufficiently to allow the support rod to pass through the frame from the apparatus side to be assembled with Truck Casters resting on the floor.

- 5.13 A second man places the mating assembly against the wiring side of the frame and attaches the 5/8-11 Hex. Nut. Tighten Hex. Nut with a socket Ratchet Wrench.

NOTE: The assembly on the apparatus side should be held firmly against the frame upright as the nut is tightened on the opposite side. The Square Head portion of the bolt should be held under the stop block of the dolly assembly.

- 5.14 Repeat this sequence for the remaining two assemblies on the other end of the frame.

CAUTION: THE DOLLY ASSEMBLIES SHOULD BE SNUGGED UP FIRMLY ON THE FRAME BEFORE THE WEIGHT OF THE FRAME IS LOWERED. THIS WILL INSURE PROPER FUNCTIONING OF THE TRUCK.

- 5.15 At this point it is recommended that one R-2849 Strap be fastened around the lower portion of the frame upright. (See Figure 1A.)

CAUTION: THE END OF THE STRAP SHOULD NOT BE DROPPED TO THE FLOOR WHILE THE TRUCK IS BEING PULLED AS THIS MIGHT CAUSE THE STRAP TO BECOME ENTANGLED IN THE CASTER ASSEMBLY.

- 5.16 Convey the frame through the apparatus aisle to its permanent location by pulling the strap.

- 5.161 Secure the top of the frame temporarily to the auxiliary framing with the R-2849 Straps. Frames located between framing bars should be attached to adjacent frames with junction plates P-30A015.

NOTE: The R-2849 Web Straps should be left attached to the auxiliary framing or cable rack until aligning operations are completed and frame is securely fastened at the top to the auxiliary framing.

- 5.17 Locate the frame with respect to the lines on the floor and lower it to the floor. Use handwheel or the R-2806 Reversible Ratchet Handle for lowering the frame.

NOTE: Arrows on the dolly truck indicate proper direction. To lower the frame turn the wheel in the direction marked "Lower". For ease of operation lower one end of the frame at a time turning the wheels on the apparatus and wiring side simultaneously.

- 5.18 Locate the frame so that the front and end edges of the base line up with the lines marked on the floor will avoid any need for shifting the frame's base during the aligning operations.

6. ASSEMBLY OF THE R-3402 DOLLY TRUCK TO FRAMES (FIG. 1B)

6.1 Preparation

- 6.11 Before using the R-3402 with its Ball Casters on the wiring side, it will be necessary to protect the floor with masonite to prevent marking or scoring of the linoleum.

NOTE: The use of masonite, to prevent damage of the linoleum, may not be necessary when a job has to install complete frame line-ups, where the frames can be conveniently sequenced to permit free movement of the Ball Casters on the vacant line-up space not in the aisles. Cross aisles, hoisting area and other areas where access is necessary to get to the line-up must be protected with masonite.

- 6.12 The ball caster permits the frame to be moved down the aisle without removing ladder track or lighting fixtures, provided the frame is moved parallel to the obstructions. Obstruction perpendicular to the movement of the frame will have to be removed.

6.2 Instruction

- 6.21 Place one of the assemblies against the wiring side of the frame as shown in Figure 1B.

- 6.22 Place the matting against the apparatus side of the frame.

- 6.23 Raise each caster assembly by means of the handwheels sufficiently to allow the support rod to pass through the frame from the apparatus side to be assembled with casters resting on the floor tighten the Hex Head on support rod with a socket ratchet wrench.

NOTE: Both assemblies should be held firmly against the frame upright as the support rod is tightened. (See Fig. 1B.)

- 6.24 Repeat this sequence for the remaining two assemblies on the other end of the frame.

CAUTION: THE DOLLY ASSEMBLIES SHOULD BE SNUGGED UP FIRMLY ON THE FRAME WITH THE BASE OF THE DOLLY TRUCK PARALLEL WITH THE FLOOR BEFORE THE WEIGHT OF THE FRAME IS LOWERED. THIS WILL INSURE PROPER FUNCTIONING OF THE TRUCK.

- 6.25 At this point it is recommended that one R-2849 Strap be fastened around the lower portion of frame upright.

CAUTION: THE END OF THE STRAP SHOULD NOT BE DROPPED TO THE FLOOR WHILE THE TRUCK IS BEING PULLED AS THIS MIGHT CAUSE THE STRAP TO BECOME ENTANGLED IN THE CASTER ASSEMBLY.

- 6.26 Convey the frame through the apparatus aisle to its permanent location by pulling the strap.

- 6.27 Secure the top of the frame temporarily to the auxiliary framing with the R-2849 Straps. Frames located between framing bars should be attached to adjacent frames with junction plates P-30A015.

NOTE: The R-2849 Web Straps should be left attached to the auxiliary framing or cable rack until aligning operations are completed and frame is securely fastened at the top to the auxiliary framing.

6.28 Locate the frame with respect to the lines on the floor and lower it to the floor, use handwheel or the R-2806 Reversible Ratchet Handle for lowering the frame.

NOTE: Arrows on the dolly truck indicate proper direction. To lower the frame turn the wheel in the direction marked "Lower". For ease of operation lower one end of the frame at a time turning the wheels on the apparatus and wiring side simultaneously.

No arrows are shown due to extensive changes.

6.29 Locate the frame so that the front and end edges of the base line-up with the lines marked on the floor will avoid any need for shifting the frame's base during the aligning operation.

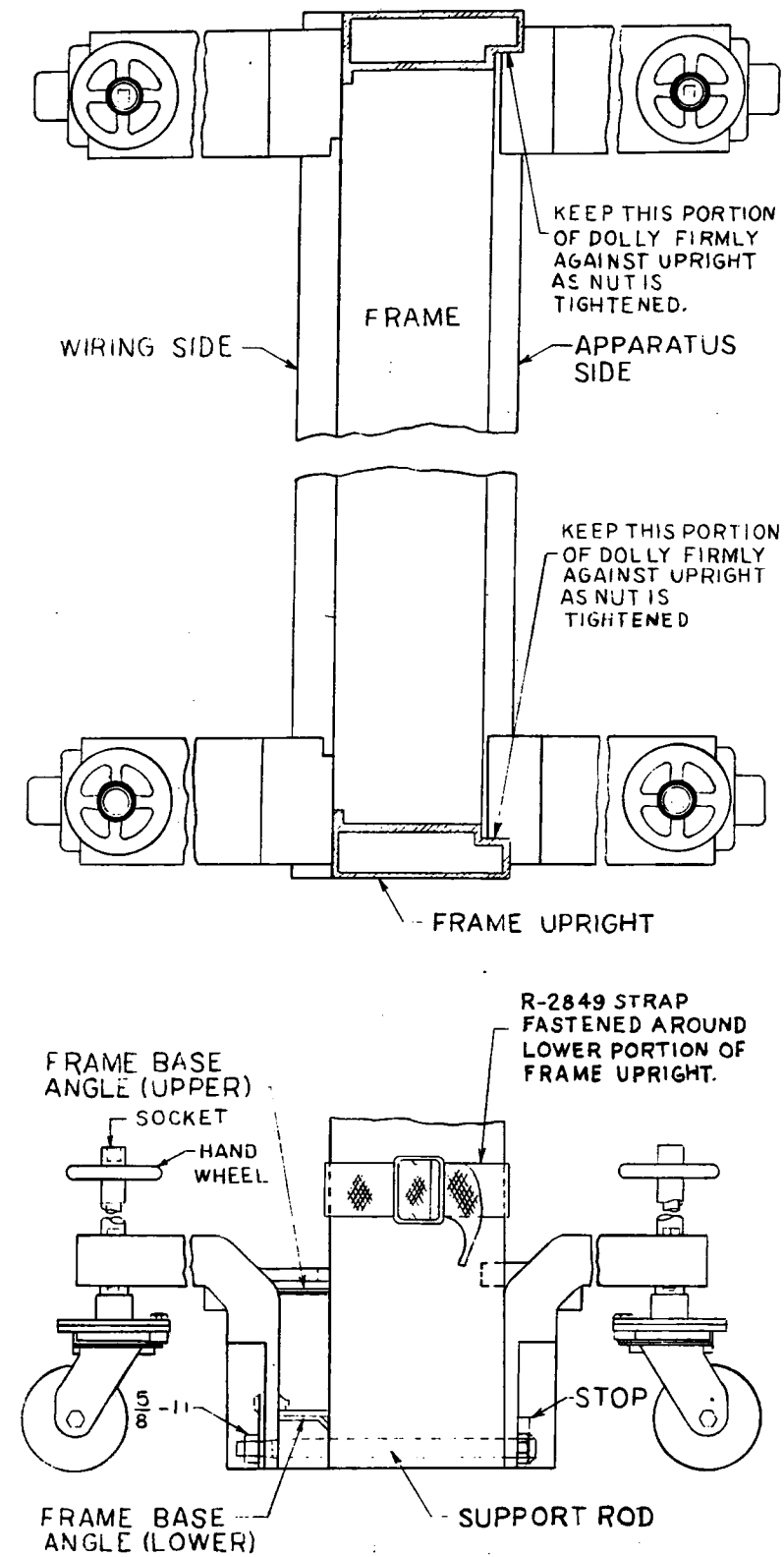
ATTACHMENT:

Figures 1A and 1B on Page 5.

Manager, Engineering Planning

REASON FOR REISSUE:

To include Handbook 69R.



R-2842 DOLLY TRUCK (PAR 5.1)
(USED IN NO.5 X-BAR OFFICES WHICH HAVE A NORMAL
SUPERSTRUCTURE HEIGHT OF 11' - 9 1/2")

FIG. 1A

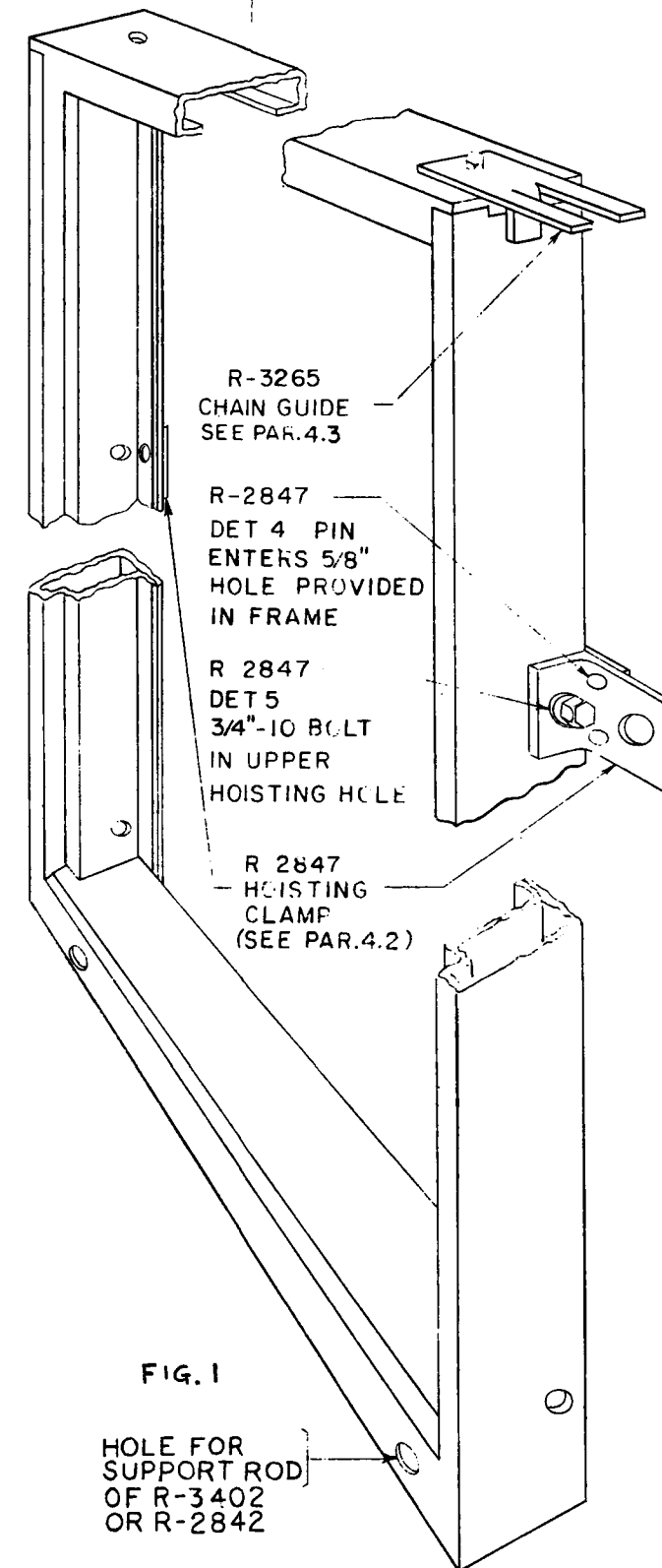
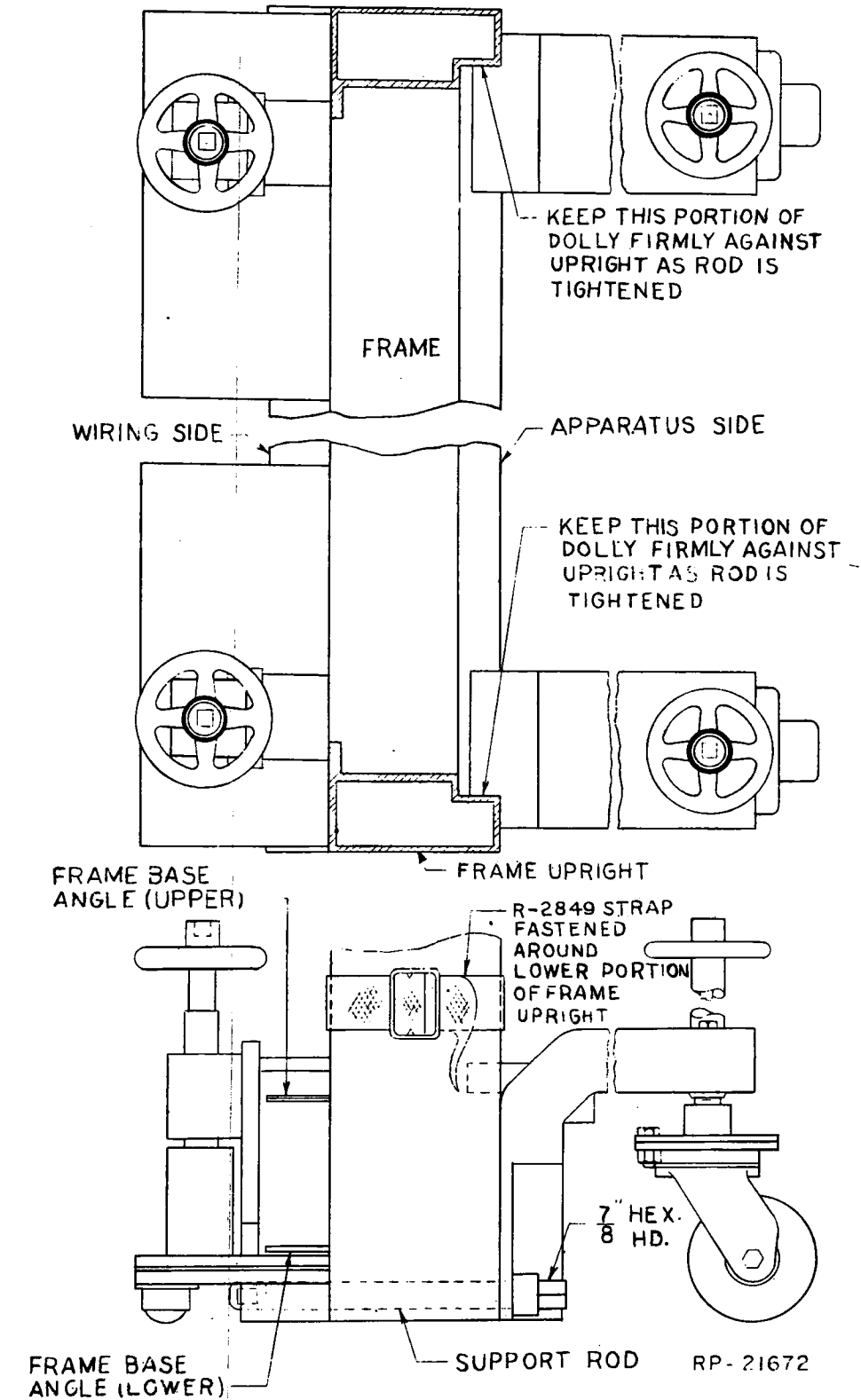


FIG. 1

NO.5 X-BAR MATERIAL HANDLING ASSEMBLY



R-3402 DOLLY TRUCK (PAR. 6.1)
(USED IN NO.5 X-BAR OFFICES WHERE
AUX. SUPERSTRUCTURE IS LESS
THAN 11' - 9 1/2")

FIG. 1B