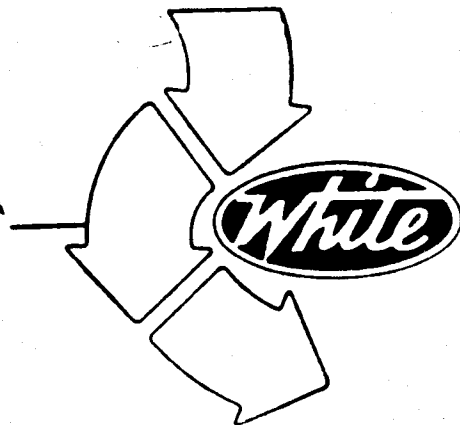


# INSTALLATION & SERVICE MANUAL



## CHECK ROOM CONVEYORS

MODELS RW, RR, RT, RU, RV



**WHITE CONVEYORS INC.**

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INSTALLATION & PARTS MANUAL

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## SOFTWARE WARRANTY (For Computerized Systems)

Recognizing that the payment of the purchase price by customer will not fully reimburse White Conveyors, Inc. (WCI), for the full expense of developing software for customer, the parties agree that payment hereunder conveys to customer, a non-exclusive, non-assignable license for the use of the software purchased under this agreement, but such license does not include the right to reproduce, publish or license such software to others. WCI expressly reserves and expressly consents that the entire right and title to such software shall remain with WCI, and WCI has the exclusive right to protect by copyright, or otherwise, to reproduce, publish, sell and distribute such software to anyone. Customer agrees to use reasonable controls to protect the confidential nature of all software without support from WCI for its own use at this location.

WCI believes that the software furnished is functional and usable. However, the amount to be paid WCI under this contract does not include any assumption of risk and WCI disclaims any and all liability for incidental or consequential damages arising out of the use or operation of the software provided here. Notwithstanding the foregoing, WCI shall not be liable to customer for consequential damages that may arise or be asserted by reason of the failure of the system to perform in conformance with the specifications set forth above in this proposal. WCI's responsibility under the agreement for the purchase of the software, following the date of the contract shall be to modify, repair, correct or replace the system as delivered to customer, so that the modified, repaired, corrected, or replacement system conforms to the specifications agreed upon between WCI and customer.

Any software not described or any modification or addition thereto, are subject to additional charges at prior written prices acceptable to both parties.

In the unlikely event that WCI decides not to, or cannot for any reason, support the system software, WCI agrees to make available to customer a copy of all object program media plus system and operations documentation. WCI will not be responsible for any modifications made by customer to the software without the express written approval of WCI, and if such modifications are made without approval WCI shall be free from any and all liabilities arising from said modifications.

A two-year license to use the software with no-charge 24-hour modem support is included. An automatic 12-month software license renewal (cost as included in this proposal) is payable on the anniversary of this contract.

### LIMITED WARRANTY

All new White Conveyors Inc. (WCI) equipment is warranted against defective workmanship and material for a period of one (1) year from the date of shipment. This limited warranty covers materials only. It does not cover the costs of any labor.

WCI shall not be held liable for charges or repairs in the field that include but are not limited to transportation, out of pocket expenses, room and board, etc. WCI reserves the right to repair or replace any part returned to WCI.

WCI shall not be responsible for defective installation or erection when performed by anyone but WCI employees, nor for any parts that fail therefrom.

WCI shall not be liable for customs duties, brokerage fees, or other costs related to obtaining warranted replacements parts.

When WCI's service department authorizes a warranty replacement, a WARRANTY CLAIM FORM will be mailed to you. A copy of the completed Warranty Claim Form must then be returned to WCI with the defective part. Returns cannot be processed without the Warranty Claim Form. All returns must be shipped to WCI freight prepaid. Other than UPS, all warranty replacements will be returned to the customer freight collect.

This limited warranty does not cover the failure of parts due, in whole or part, to the customer's negligence, fault, or lack of use of recommended maintenance procedures.

There are no warranties which extend beyond the face hereof. WCI expressly disclaims any other warranties, including, without limitation, the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. In addition, WCI shall not be liable for any incidental or consequential damages arising from or relating to claims brought pursuant to this limited warranty or claims under any agreement between WCI and customer.

### Litigation Provision

It is agreed that White Conveyors Inc. (WCI) is a New Jersey corporation, with its principal place of business in Kenilworth, New Jersey. Although the locations of customer's facilities are not necessarily located in New Jersey, this contract was negotiated, executed and intended to be performed in Kenilworth, New Jersey. It is therefore agreed that any legal action, in law or equity, to enforce any agreement between customer and WCI or which is in any manner based upon or relating to it, regardless of the state in which customer's facilities are located, shall be brought in a state or federal court of appropriate venue located in the State of New Jersey.

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## WHITE INSTALLATION MANUAL

The following instructions for the erection of your White Conveyor are intended for use by personnel knowledgeable in installation procedures.

All fastenings, bracing, welding, electrical work, etc., must be done by competent and licensed people in order to insure a proper and safe installation. All maintenance should be done by experienced and trained people taking all precautions that are necessary to prevent accidents.

Make sure all power to the conveyor is disconnected when servicing the conveyor and that all control switches are in the off position when power is again connected. All plant personnel should be instructed not to "take a ride" on the conveyor and a sign should be posted to that effect.

Compliance with all federal and local codes in installing the conveyor is the responsibility of the installer and customer.

## INSTALLATION INSTRUCTIONS

### 1. INTRODUCTION

Your new White Checkroom Conveyor was designed with ease of maintenance and simplicity of erection in mind. These instructions will provide a guide to satisfactory reassembly, if they are followed in the sequence suggested.

Prior to shipment, your White Checkroom Conveyor was completely assembled and tested to insure perfect operating performance. After satisfactory completion of these tests, the conveyor was partly disassembled and crated. Every effort was made in crating to protect this machine enroute to you from the factory. Upon delivery, the crate should be examined for external damage incurred during shipment. If damage is observed, a claim should be filed immediately with the carrier making delivery.

### 2. UNCRATING

1. Open top of crate.
2. Remove steel strappings.
3. Loosen skid fastenings holding bases.
4. Remove conveyor section with bases.
5. Unpack stanchions.
6. Loosen set screws on all stanchion sockets and bases to remove shipping poles.

When removing conveyor sections from crate, do not lift or exert force on aluminum frames or yokes. Sections should be lifted by tubing rail or channel frame. Do not allow weight of machine to rest on motor control box.

### 3. ERECTION PROCEDURE

White Checkroom Conveyors are available in two basic types. The first has no wire bin for hats and packages (Model RW), and the second has wire bins (Models RR, RT, RU, RV). The procedure for erection and maintenance is much the same for both types.

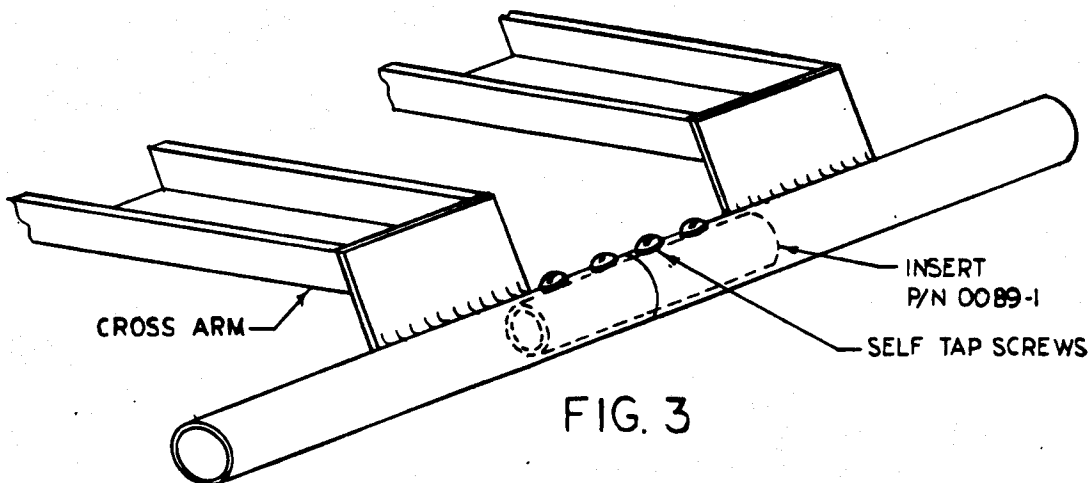
Typical Checkroom Conveyors are shown in Fig. 1 and Fig. 2. All conveyor sections are marked and must be assembled matching numbers.

The area in which the conveyor is to be installed should be checked for any interferences and the position of the conveyor should be determined.

1. Position bases on floor.
2. Position conveyor sections on top of bases (motor end is usually located nearest counter).
3. Slip stanchions thru conveyor sockets and into base sockets.

NOTE: For Models with wire bins it is necessary to slip stanchions thru guide rail sockets and then into base sockets.

4. Tighten set screws in base sockets.
5. Slide drive end section of conveyor up stanchions until center line of tubular track is  $73\frac{1}{2}$ " above floor for Models RW and RR, and per Fig. 2 for Models RT, RU, and RV.
6. Tighten set screws in conveyor sockets.
7. Raise each section and connect to adjacent sections.
8. Join track sections. Each track section is fitted on one end with a rail insert (P/N 0089-1) having two No. 10 self tapping screws. Connection of the adjoining section of conveyor track is made by placing the rail insert into the open end of the next section. Pull sections tightly together and insert two additional self tapping screws as shown in Figure 3. Each joint shall be straight and square with no opening between sections.



9. Tighten bolts on joiner (P/N 1587-0). See Fig. No. 1 or 2. Use 5/16" x 1" bolts and nuts provided.
10. Check each base to see that it is flat on floor.
11. Line up all stanchions to make sure conveyor is straight, level, and weight is evenly distributed.

#### 4. CHAIN ASSEMBLY

##### (A) MODEL RW

Prior to connecting the last track section, roll on the sections of conveyor chain. Make sure that the slot markings are in the right sequence.

In order to connect sections of conveyor frames proceed as follows. (See Fig. 4).

- 0013-0 Washers 13/16"x17/32"
- 0015-0 Y-1 Yoke
- 0016-0 Nylon Wheels
- 0017-0 Guide Rollers
- 0018-2 R.H. Screws
- 0019-5 1/4" Nuts
- 0053-0 Frames
- 0076-0 Number Strips
- 0124-0 Tube Spacer
- 0135-0 Washer 13/16"x19/32"
- 0197-0 Collar
- 1294-7 Roll Pin
- 1874-0 Tube Spacer
- 1875-0 Hinge Pin
- 0474-1 YOKE TEE HEAD SCREW
- 0044-5 10-32 LOCK NUT

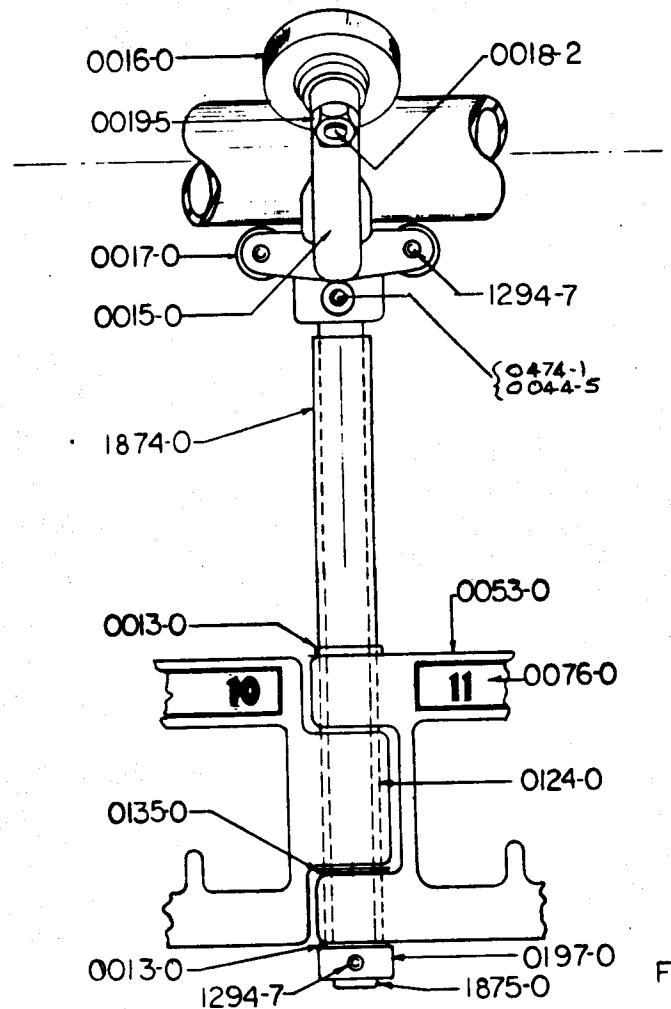


FIG. 4

- (a) REMOVE TEE HEAD SCREW FROM YOKE
- (b) Remove hinge pin (P/N 1875-0) from yoke.
- (c) Dovetail adjoining frames (P/N 0053-0). Be sure the flat washer (P/N 0135-0) is inserted between mating surfaces as shown.
- (d) Insert bushing (P/N 0124-0) through adjoining frames (P/N 0053-0).
- (e) Replace hinge pin (P/N 1875-0) by inserting through bushing (P/N 0124-0). Be sure to insert two washers (P/N 0013-0) and split tube spacer (P/N 1874-0) as shown.
- (f) Repeat at all joints.

(B) MODELS RR, RT, RU, and RV

Prior to connecting the last track sections, roll on the section of conveyor chain.

In order to connect sections of conveyor frames proceed as follows. (See Fig. 5).

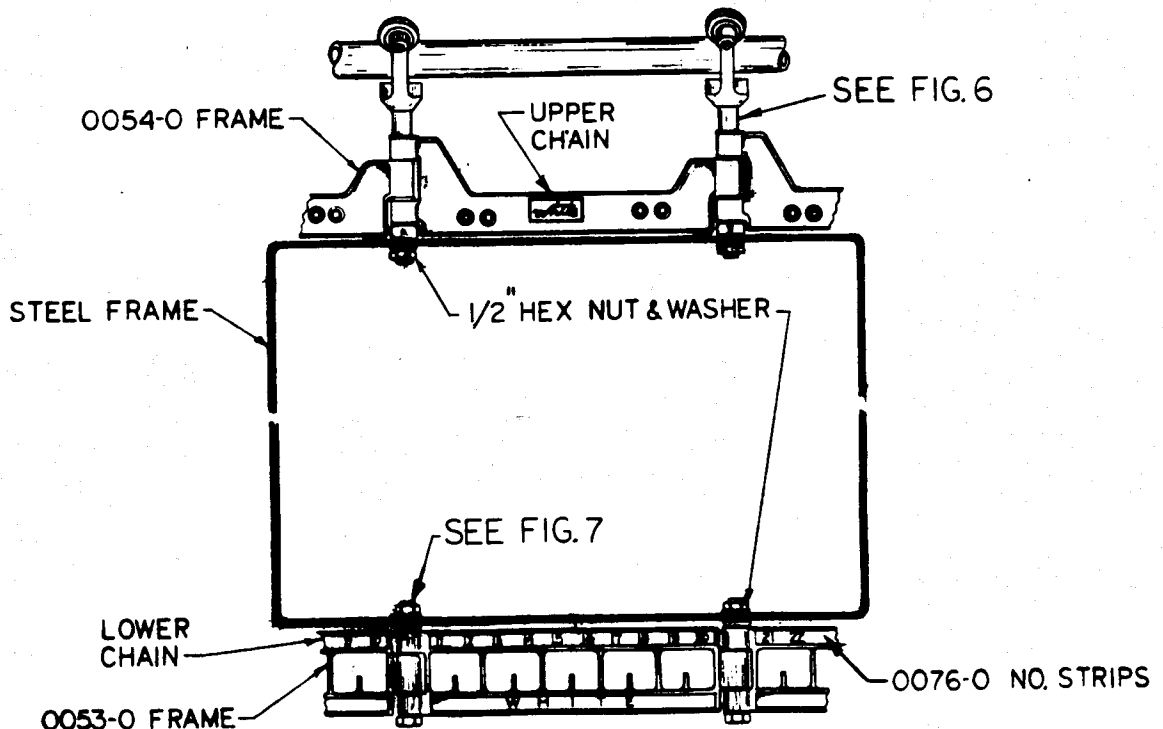


FIG. 5

- (a) Remove the ½" hex nut and lock washers as shown.
- (b) Loosen the ¼" Allen Set Screws in the collar (P/N 0051-0) and remove the collar. (See Fig. 6).

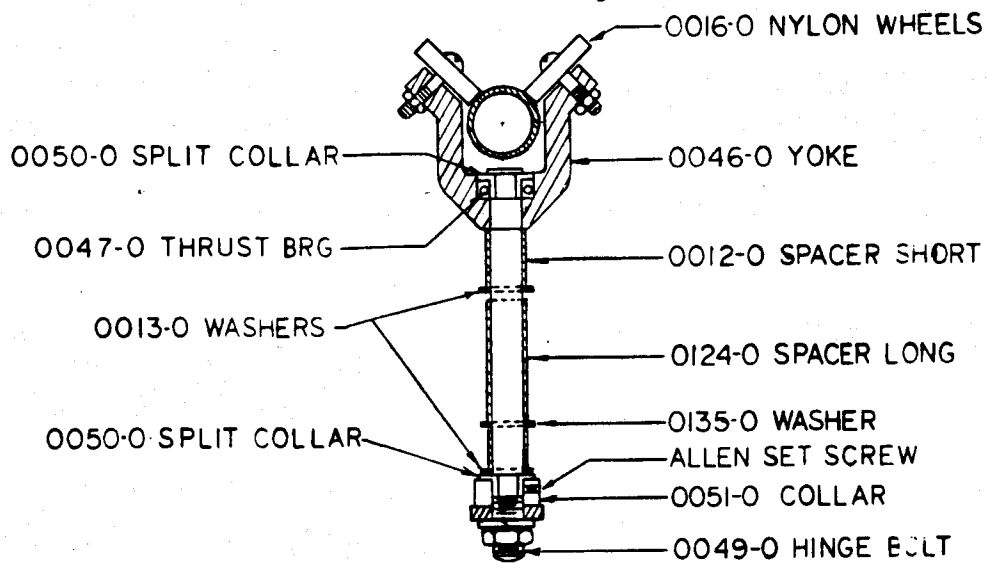


FIG. 6

- (c) Remove the lower split collars (P/N 0050-0) and the washer (P/N 0013-0).
- (d) Push the vertical hinge pin (P/N 0049-0) up until the upper split collars (P/N 0050-0) are free and can be removed.
- (e) Pull the hinge pin (P/N 0049-0) straight down and out.
- (f) Dovetail the frames (P/N 0054-0) and reinsert the hinge pin. Make sure that the split tube spacer (P/N 0124-0) is in place and that the washer (P/N 0135-0) is between adjacent frames. Also make sure that split tube spacer (P/N 0012-0) and washer (P/N 0013-0) are in place.
- (g) Push hinge pin up high enough so that upper split collars (P/N 0050-0) can be inserted. Pull hinge pin down so that upper split collars nest properly against bearing (P/N 0047-0).
- (h) Replace lower washer (P/N 0013-0) and lower split collar (P/N 0050-0). Slip lower collar (P/N 0051-0) over split collars and tighten Allen set screws.

5. BASKET ASSEMBLY (FOR MODELS RR, RT, RU & RV ONLY)

After the upper conveyor chain has been installed, the baskets may be suspended. See Fig. 5.

- (a) Place the steel frame with the guide wheel toward inside of conveyor over the two hinge pins (P/N 0049-0) and tighten in place using the  $\frac{1}{2}$ " hex nut and lock washer previously removed. In order to tighten the nuts it will be necessary to keep the hinge pin from turning by inserting the Allen wrench into the set screw.

NOTE: The guide wheel should bear against the center of the guide rail. If necessary adjust the guide rail up or down.

- (b) Repeat step (a) until all of the steel frames are in place and secured.
- (c) To install the lower chain assembly remove the  $\frac{1}{2}$ " hex nut and lockwasher and the rubber band used to keep the split collars in place. (See Fig. 7.).

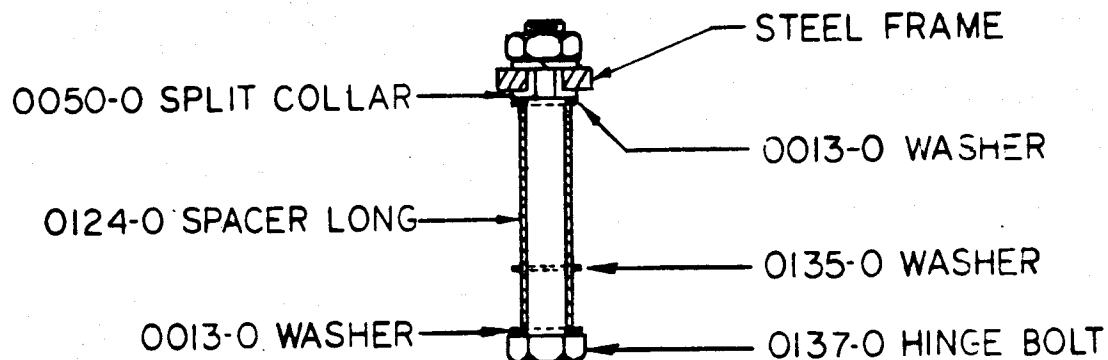


FIG. 7

- (d) Insert the lower hinge pin (P/N 0137-0) into the steel frame and replace the  $\frac{1}{2}$ " nut and lockwasher. Tighten. Make sure that split collars (P/N 0050-0) and washer (P/N 0013-0) are properly located.

NOTE: The lower chain is numbered consecutively which must be noted when installing the next segment of chain.

- (e) Repeat steps (c) and (d) until all of the lower chain is in place.

- (f) The one piece wire bin is the last item installed and is done best at either end of the conveyor. Insert a basket into the frame so that the square notches face up (See Fig. 8). Note that the bin snaps into a locked position in the frame by 2 sets of wire crimps.
  - (g) Insert the angle clips (P/N 0302-2) on top and bottom and tighten with bolts and nuts provided.
- NOTE: Be sure that bolt heads are as shown in Fig. 8.
- (h) Repeat steps (f) and (g) until all of the wire bins are in place.
  - (i) Insert shelves as required.

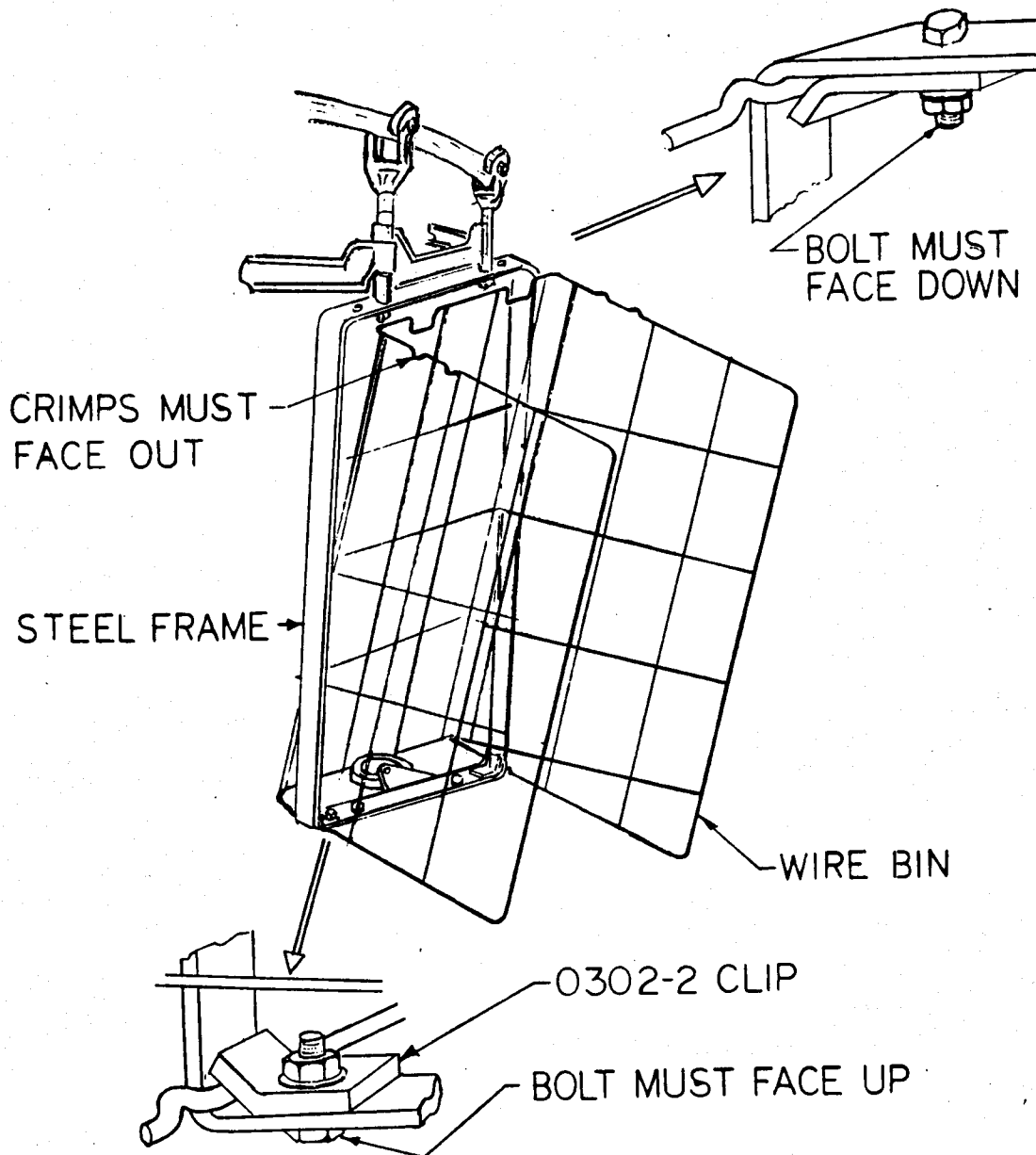
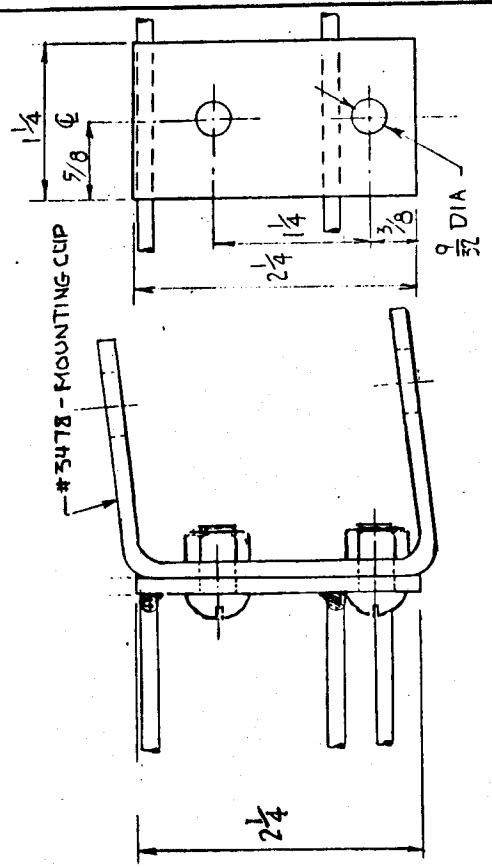
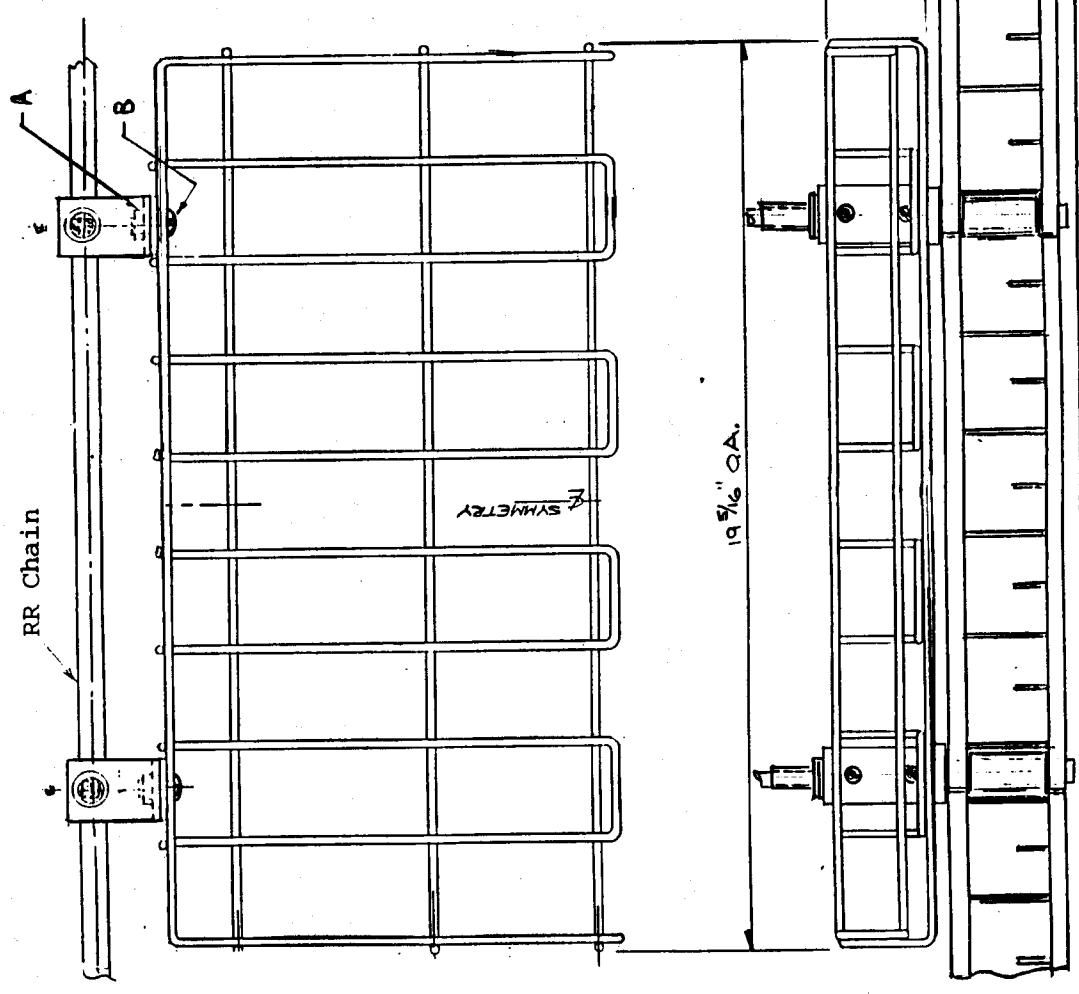


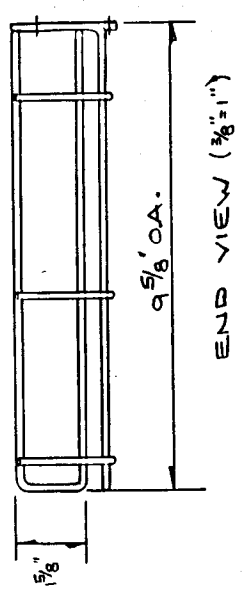
FIG. 8

MODEL RR TRAY ASSEMBLY INSTRUCTIONS

1. The mounting clip is part of the RR chain assembly.
2. Tray 3478-0 is bolted to mounting clip 3478-1 using (A) 1/4"-20 Kep Nut and 1/2" long RH screw (B) Four of each are required for each tray.



VIEW A-A



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RR MTG CLIP & ASSEMBLY INSTRUCTIONS

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7. The conveyor chain length was sized at the factory, but slight differences in installation can affect chain length and sizing may be required. See page 12 of Maintenance Manual.

8. LEVELING, AND BRACING:

1. Tighten all set screws in each base stanchion socket.
2. Level machine by sighting along top of conveyor. Check for any dips.
3. Eliminate uneven dips by raising the conveyor and tightening set screws in the upper socket.
4. Check to see that all stanchion set screws are tight.
5. Anchor bases to floor with lag screws except for the end sections.
6. It is important that you also SWAY BRACE your conveyor to some rigid structure of building (wall, ceiling, column, etc). This is necessary to protect your conveyor against sudden starting or stopping motions, uneven loading, etc. To sway brace your conveyor effectively, three braces are recommended. Use two braces on the length of the conveyor (using plain pipe or angle irons) and one brace on the end. Bolt from upper cross frames of conveyor to building.

9. SPEED REDUCER DRIVE CHAIN ADJUSTMENT:

This roller chain connecting the speed reducer and the drive sprocket is properly adjusted prior to leaving the factory. However, after an initial break-in period, this chain stretches and should be readjusted. Failure to readjust will result in the chain sagging causing misalignment with the sprocket and accelerated chain wear. To adjust the chain, refer to Maintenance Manual, page 9.

10. MOTOR DRIVE BELT ADJUSTMENT:

The drive belt between the motor and speed reducer is properly adjustment upon installation at the factory. Should adjustment become necessary during service, refer to Maintenance Manual, page 9.

11. SPEED REDUCER

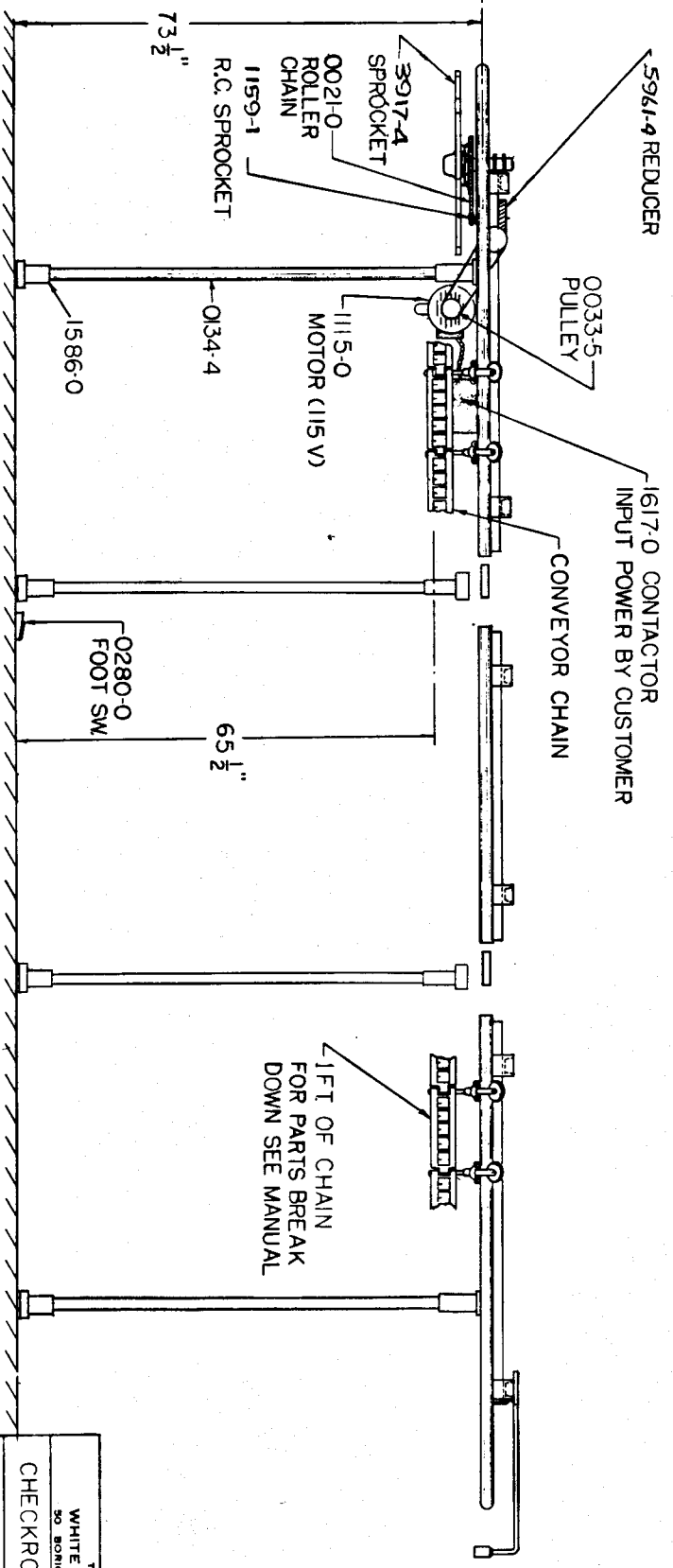
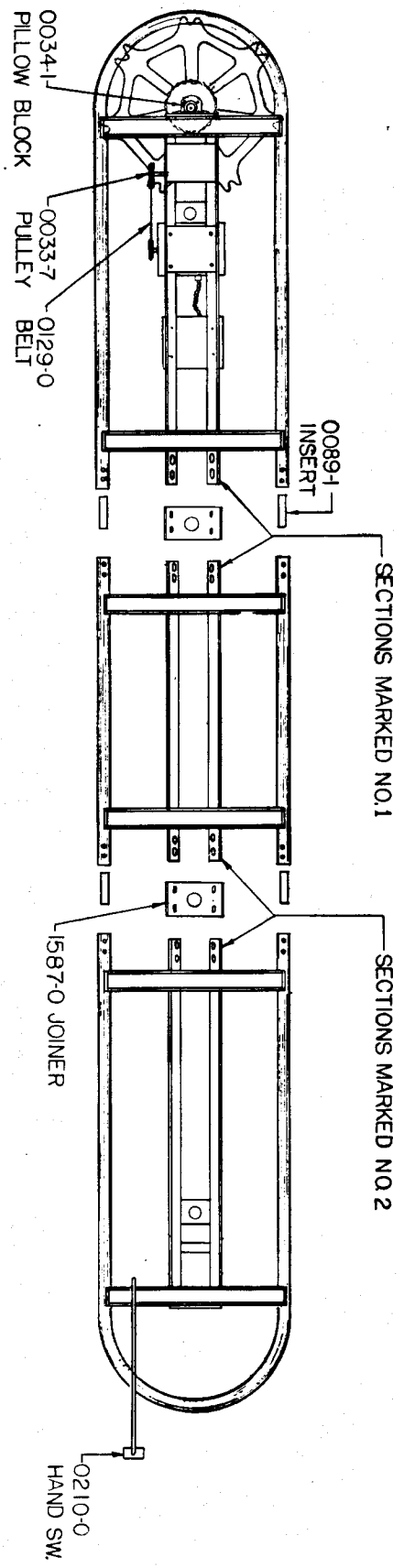
The speed reducer has been filled with oil prior to shipment, however, the oil level should be checked prior to operating the conveyor.

Refer to maintenance manual for service instructions.

12. ELECTRICAL CIRCUIT ASSEMBLY

1. Unbolt and reposition switch are to proper location.
2. Connect switch control cable at junction box by matching wire colors.
3. Connect Automatic Control if conveyor is so equipped by plugging into junction box.\*
4. Tape down all wiring to posts so that sprockets and garments cannot sag wiring.
5. Make sure all switches are in "OFF" position.
6. Remove all tolls and obstructions from conveyors.
7. Turn motor pulley ("V" belt on motor) manually about 6 turns to make sure all moving parts are free.
8. Connect machine to correct power source. CAUTION: Use ONLY 120 volts, single phase, 60 cycle unless marked otherwise. Customer must provide an approved connection See wiring diagram.
9. Operate local manual switch forward and reverse.
10. Observe operation:
  - (a) Chain should roll freely on track.
  - (b) All nylon wheels should turn. (Check for dirt picked up during shipment).
  - (c) Look for parts damaged in shipment.
11. Operate remote manual switch forward and reverse.

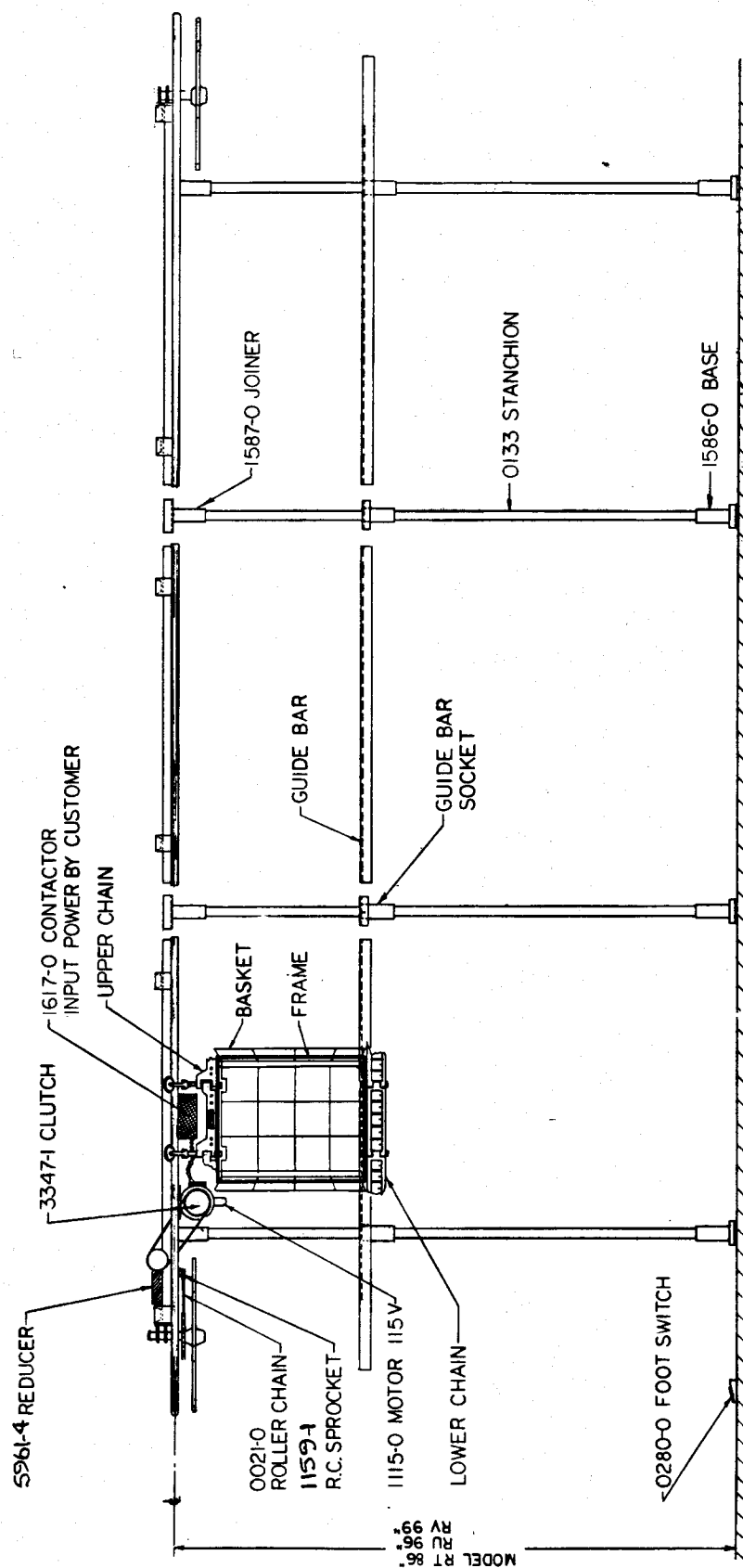
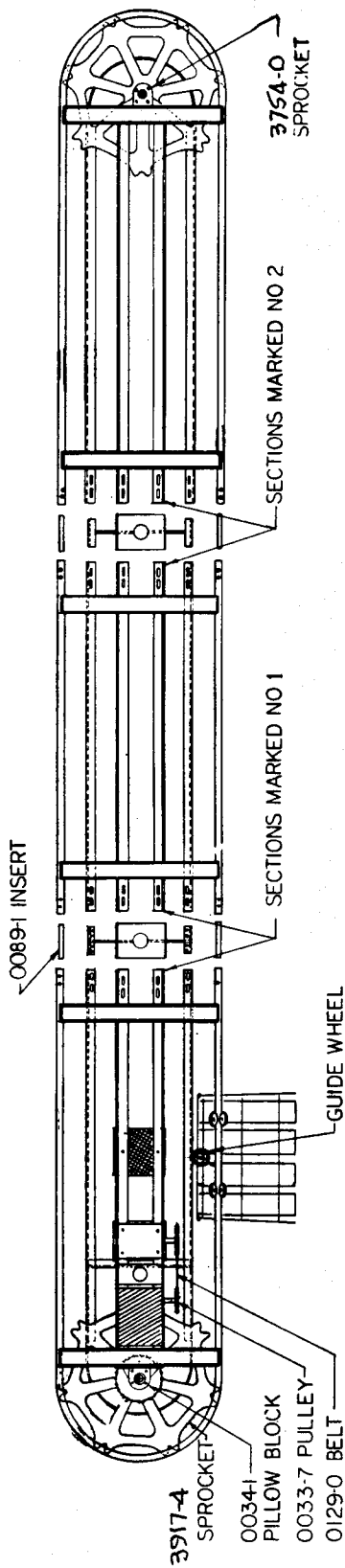
\* If unit is equipped with Automatic Control - See separate electrical instruction sheet.



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CHECKROOM CONV. MODEL RW, RR

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MODEL RT 86  
RV 96  
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CHECKROOM CONV. W/ BASKETS

RT. RU. RV

MODELS

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