



***INSTALLATION and SERVICE
MANUAL***

***DOUBLE DECK
CONVEYOR***

MODELS DS, DSC, DC, DX

WHITE CONVEYORS, INC.

10 Boright Ave., Kenilworth, New Jersey 07033

Phone: 800.524.0273 Fax: 908.686.9317

www.white-conveyors.com



ATTENTION!

CONVEYOR SIZING NOTICE

Every White Conveyor is manufactured in accordance with factory specifications that have been determined by extensive manufacturing experience, observations in the field, and first-hand installations.

Once installed, your White Conveyor may require sizing to achieve optimum efficiency. Proper sizing is a major factor in the conveyor's operation and performance.

For help in sizing your conveyor, please call White Conveyors, Inc., Field Service Department toll-free, at:

1-800-524-0273

Our factory-trained personnel will help determine if the conveyor requires sizing, and will provide you with step-by-step sizing instructions.

Please call the factory for assistance *before* sizing the conveyor.

Thank you.

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DOUBLE DECK CONVEYORS
INSTALLATION AND PARTS MANUAL**

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WCI EQUIPMENT WARRANTY

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. Labor is specifically excluded.

WCI shall not be held liable for charges or repairs in the field that include, but are not limited to: portal to portal travel expenses, per diem meal allowances, lodging, round trip air fare, automobile rental, etc.

WCI shall not be responsible for defective installation or erection when performed by any other than WCI employees, or its authorized agents, nor for any parts that fail therefrom.

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

WCI shall, at its discretion, either repair and return the defective component, or ship a new replacement part.

When WCI authorizes a warranty replacement, a Return Authorization Number (RAN) will be issued to you. All components return shipped to WCI must display the RAN Number on the exterior of the package. Components returned without prior authorization and/or the RAN number displayed on the package cannot be processed. All returns must be shipped to WCI freight prepaid. Other than UPS, all warranty replacements will be returned to the customer freight collect. Kindly direct your request for an RAN number to our manufacturing facility in Kenilworth, New Jersey at: 1-800-524-0273.

This limited warranty does not cover the failure of parts due, in whole or part, to the customer's negligence, abuse/misuse, or lack of use of the recommended maintenance procedures. Moreover, -this limited warranty will not apply to customers whose payment accounts are more than thirty (30) days past due.

There are no warranties that 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 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.

It is agreed that 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.

WHITE CONVEYORS, INC., 10 BORIGHT AVENUE, KENILWORTH, NJ 07033
TEL: (800) 524-0273 FAX: (908) 686-9317

INSTALLATION INSTRUCTIONS

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

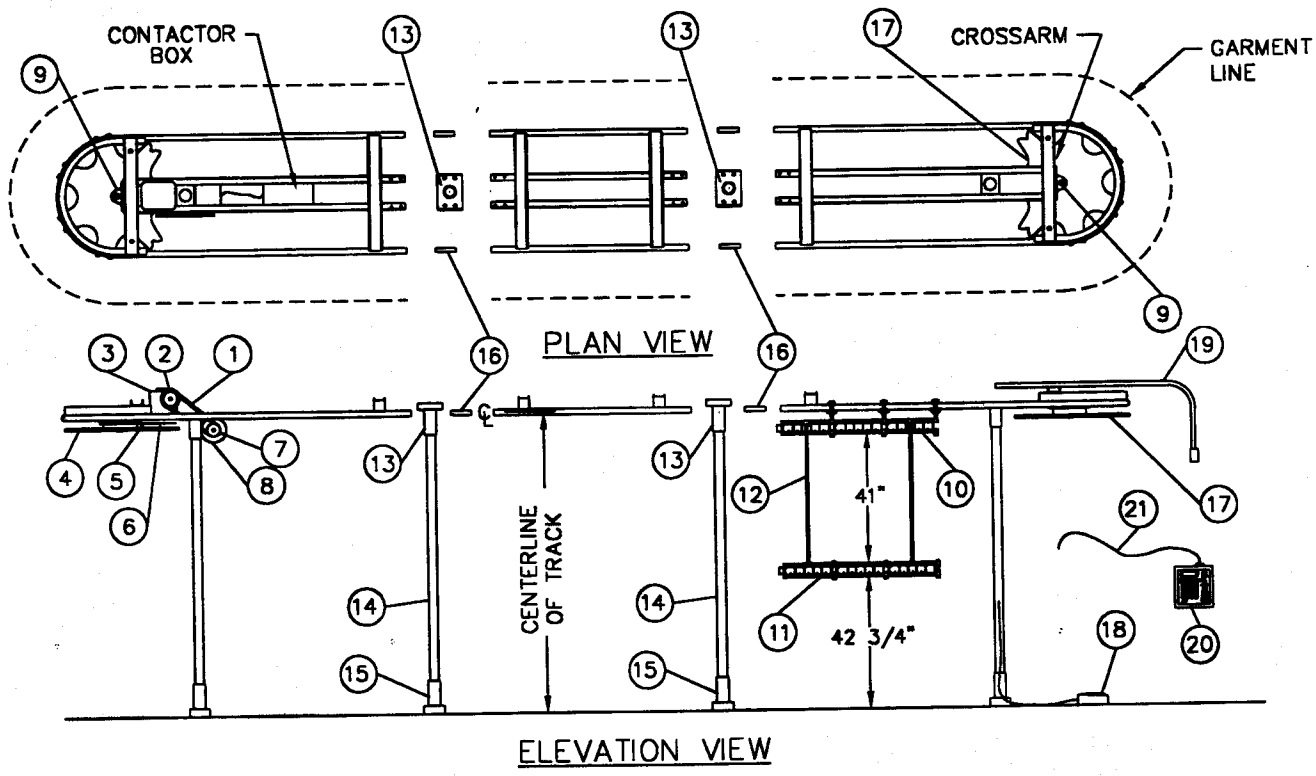
All fastenings, bracing, welding, electrical work, etc., must be done by competent and licensed people in order to insure a proper and safe installation. All maintenance should be done by experienced and trained people taking all precautions that are necessary to prevent accidents.

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.

PARTS LIST		PARTS LIST	
ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
①	V-BELT	⑪	LOWER CHAIN ASSEMBLY
②	REDUCER DRIVE PULLEY	⑫	SUPPORT ROD ASSEMBLY
③	SPEED REDUCER	⑬	JOINER AND NIPPLE ASS'Y
④	DRIVE SPROCKET	⑭	STANCHION
⑤	ROLLER CHAIN	⑮	BASE AND SOCKET ASS'Y
⑥	ROLLER CHAIN SPROCKET	⑯	TRACK INSERT
⑦	DRIVE PULLEY / CLUTCH	⑰	IDLER SPROCKET
⑧	MOTOR	*⑱	FOOT SWITCH
⑨	PILLOW BLOCK	*⑲	HAND SWITCH (ARM MOUNTED)
⑩	UPPER CHAIN ASSEMBLY	*⑳	540 KEYBOARD CONTROL
		*㉑	KEYBOARD EXTENSION

* OPTIONAL EQUIPMENT, SUPPLIED AS SPECIFIED.

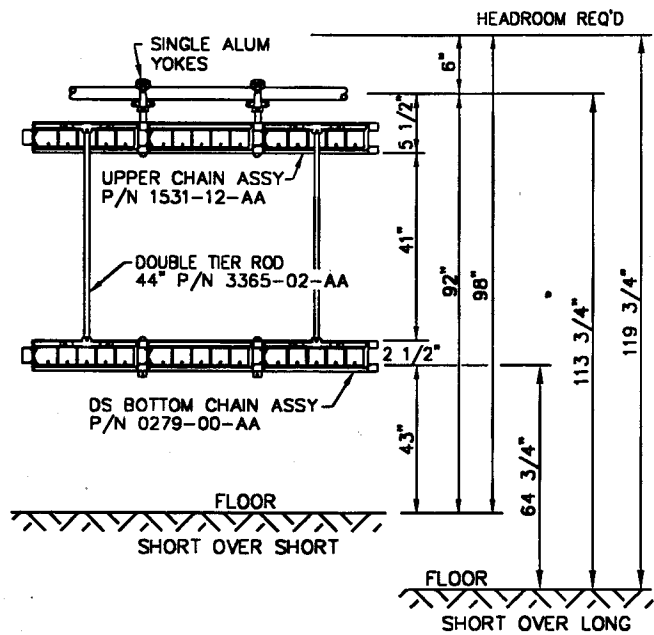


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	DRAWN BY DEW	DATE 2-7-02		<small>REV. NO. 01-MA-6210-05</small>	
	<small>THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF WHITE CONVEYORS, INC. HENLWORTH, NJ 07033 (908) 991-0533</small>	<small>CHK'D BY ALM</small>	<small>DATE 4/12/02</small>	<small>REV. PART NO. -</small>	
	<small>DO NOT SCALE DIMS. DIMS. GOVERN. REPRODUCE OR MODIFY IN ANY MANNER WITHOUT WRITTEN CONSENT</small>	<small>SCALE 1/4"=1'-0"</small>	<small>REV. A</small>	<small>REV. FIGURE 01621005MA</small>	

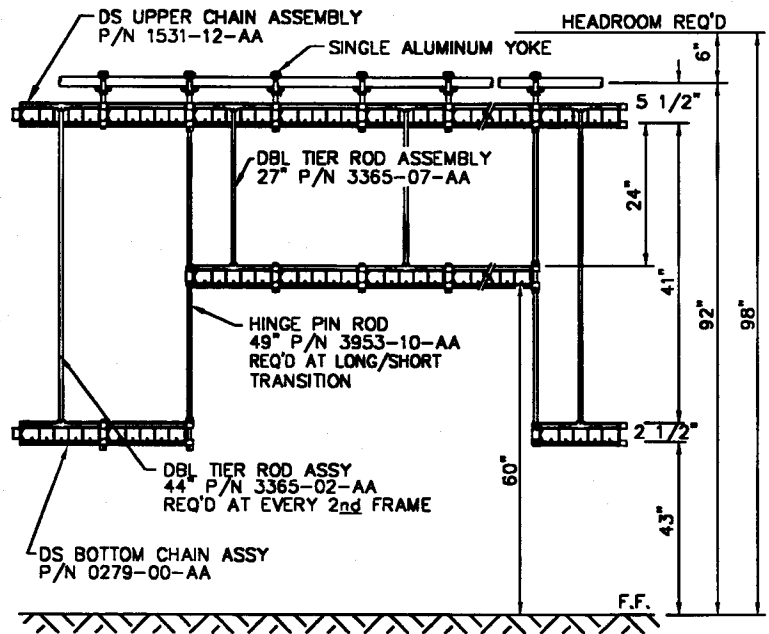
DOUBLE DECK CONVEYOR

PARTS LIST

SHEET
1 OF 1




DS CHAIN ASSEMBLY
 SHORT OVER SHORT AND SHORT OVER LONG
 NO SCALE
 CHAIN VIEWED FROM REAR



DS CHAIN
 SHORT OVER SHORT AND LONG
 NO SCALE - CHAIN VIEWED FROM REAR

C	CHANGED TITLE BLK TO NEW TITLE BLK	10-2-01	DEW
B	DRAWING REDRAWN AND DIM REVISED	8/2/99	JFF
A	S/S AND LONG DIM REVISED AS OF 7/1/92	6/26/92	JDP
REV	ECN	DESCRIPTION	DATE BY

NOTE: ALL DIMENSIONS ARE BASE UPON STANDARD CONFIGURATIONS. DIMENSIONS MAY VARY UPON CUSTOM CONFIGURATIONS.

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	DRAWN BY GDS	DATE 3/18/92		CHECKED BY Alex F	DATE 4/12/02
SCALE NONE	SIZE A	PROD CODE GA	MATL.	ASSY/PART NO. 	REV C
				DWG. FILENAME 01605904	SHEET 1 OF 1

1. INTRODUCTION:

Prior to shipment, vital parts of your Double Deck Stor-U-Veyor were 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 en-route 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 immediately be filed with the carrier making delivery.

2. UNCRATING:

1. Open top of crate
2. Remove steel strapping
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:

Your White Double Deck Stor-U-Veyor is completely floor mounted and little or no installation problems are encountered.

It is left to the discretion of installer to determine the point at which installation is to be started. If certain distances must be maintained to walls, fixtures, call office counters, etc., these should be taken into account prior to starting.

The lengths of all conveyor sections shown on the conveyor layout and the sections should be assembled accordingly.

NOTE: White Conveyor, Inc., assumes no responsibility for the building to sustain the additional load imposed upon it by installation of the conveyor.

3. ERECTION PROCEDURE (Cont):

1. Position bases on floor in final location.
2. Position conveyor sections on top of bases (motor end toward rear of plant).
3. Slip stanchions through conveyor sockets and 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 at elevation shown on conveyor layout.
6. Tighten set screws in conveyor sockets.
7. Raise each section and connect to adjacent section.
8. Join track sections. Each track section is fitted on one end with a rail insert (P/N 0089-01-PA) 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 Fig. 1. Each joint shall be straight and square with no opening between sections.
9. Sand joints for smooth running surface of nylon tired wheels.
10. Tighten bolts on joiners Item 13. See Drawing on Page 4.
11. Check each base to see that it is flat on floor.
12. Line up all stanchions to make sure conveyor is straight and level and weight is evenly distributed.

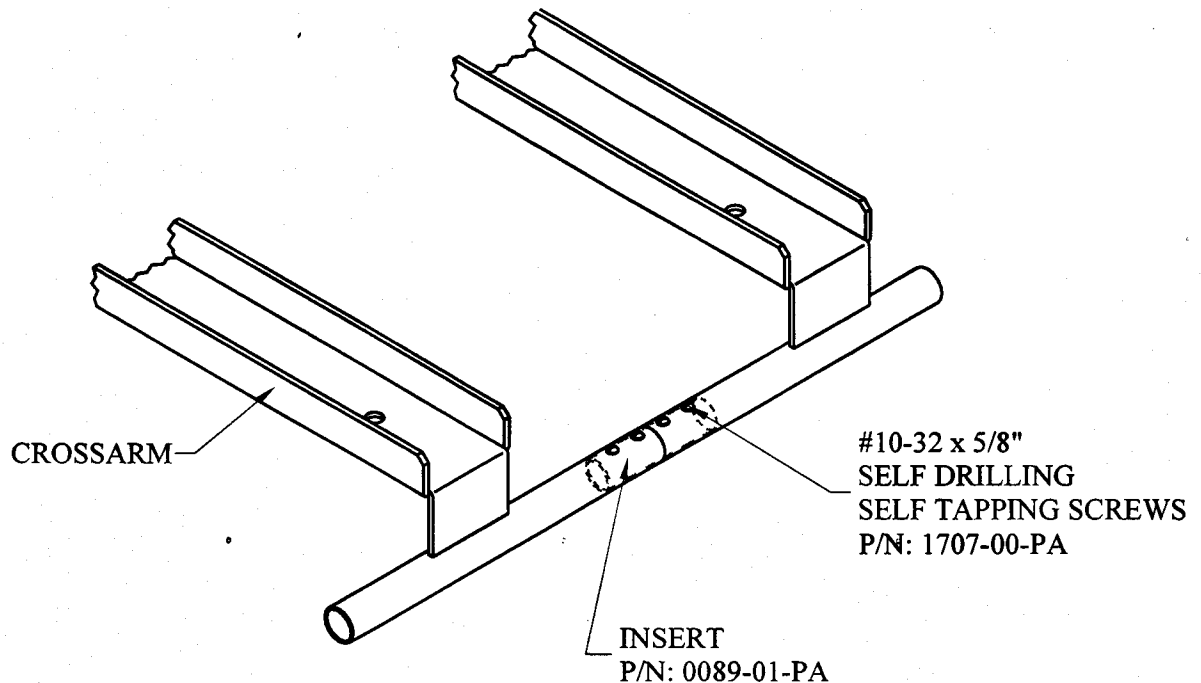


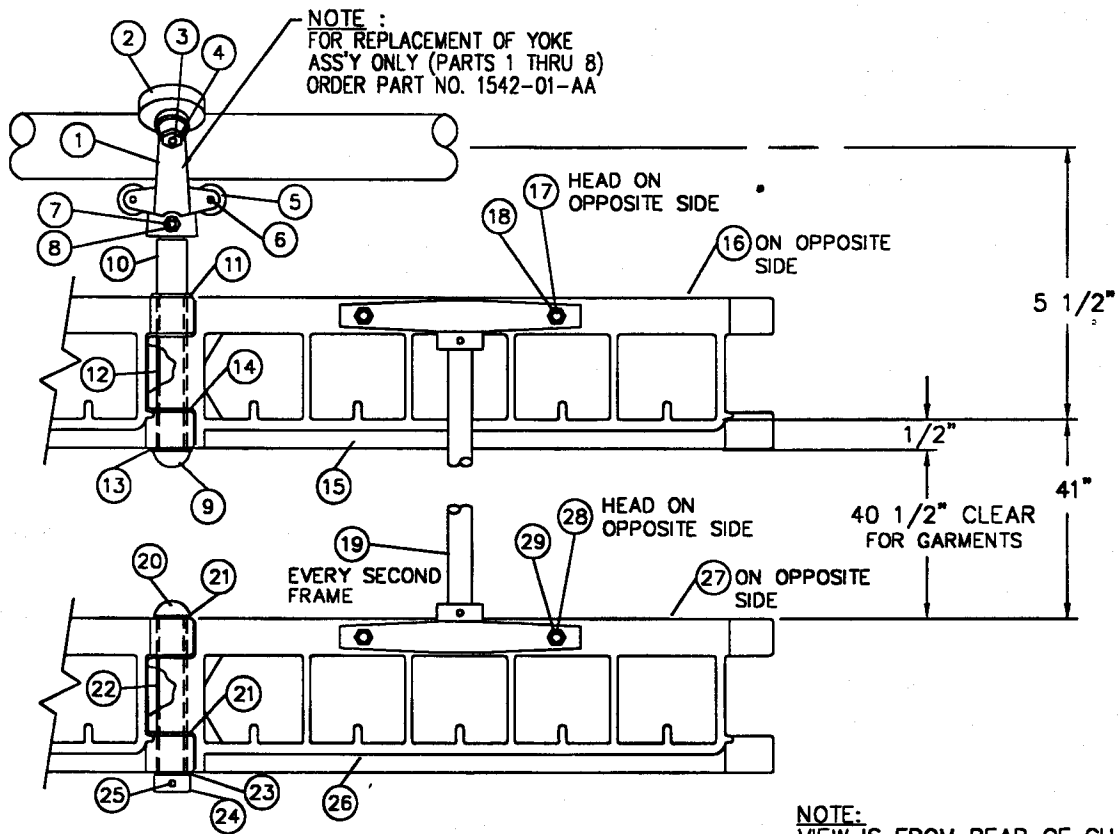
FIG. 1

4. CHAIN ASSEMBLY (see Page 9 for Pictorial):

1.
 - A. Remove idler section to expose idler end of conveyor, slip chain in place on exposed end of track until all sections have chain in place. The last length is placed around the idler section. Idler end section is then joined up again.
 - B. Join the unlinked ends of the conveyor chain in accordance with paragraphs C thru G.
 - C. Remove T head screw Item 7 (P/N 0474-01-PA) from yoke.
 - D. Remove hinge pin Item 9 (P/N 0011-00-PA) from yoke.
 - E. Dovetail adjoining frames Item 15 (P/N 0053-01-PA). Be sure that flat washer Item 14 (P/N 0135-00-PA) is inserted between mating surfaces as shown.
 - F. Insert internal bushing Item 10 (P/N 0124-00-PA) through adjoining frames Item 15 (P/N 0053-01-PA).
 - G. Replace hinge pin Item 9 (P/N 0011-00-PA) by inserting through bushing item 10 (P/N 0124-00-PA). Be sure to insert two washers item 13 (P/N 0013-00-PA) and short tube spacer Item 11 (P/N 0012-00-PA) as shown.
2. Repeat at all joints.
3. The conveyor chain length was sized at the factory, but slight differences in installation can affect chain length and sizing may be required. See pages 15 and 16 of Maintenance Manual.

5. LEVELING, ANCHORING 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, or adjusting hanging supports.
4. Check to see that all fastenings are tight.
5. Anchor bases to floor with lag screws or bolts.
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, a minimum of three braces are recommended. Use two braces on the length of the conveyor (using pipe or angle irons) and one brace on the end. Bolt from the upper cross frames of conveyor to building.



NOTE:
VIEW IS FROM REAR OF CHAIN

UPPER CHAIN ASS'Y 1531-12-AA

ITEM	P/N	DESCRIPTION	QTY.
1	0015-03-PA	YOKE, Y-1, ALUMINUM	1
2	0016-00-PA	WHEEL, NYLON, W/ BEARING 1 3/8"	4
3	0019-03-PA	SCREW 1/4"-20 x 7/8"	4
4	0063-01-PA	NUT, LOCK, TWO-WAY, 1/4"-20	4
5	0017-00-PA	GUIDE ROLLER, NYLON	4
6	0014-00-PA	ROLL PIN, 3/16" x 1 1/8"	4
7	0474-01-PA	SCREW, T, (YOKE) #10-32 x 1.312	2
8	0044-05-PA	NUT, ESN LOW PROFILE, #10-32	1
9	0011-00-PA	HINGE PIN	1
10	0012-00-PA	SPACER, SPLIT TUBE SHORT	1
11	0013-04-PA	WASHER, 1/2" x 3/4" x .060	1
12	0124-00-PA	BUSHING, SPLIT TUBE, LONG	1
13	0013-00-PA	WASHER, 13/16" x 17/32" x .030	1
14	0135-00-PA	WASHER, 13/16" x 19/32" x .030	1
15	0053-02-PA	FRAME, ALUMINUM, W DRILLED	1
16	0010-00-PA	ADHESIVE NUMBER STRIP	1
17	5158-02-PA	SCREW, PAN HD, 10-32 x 1"	2
18	5030-03-PA	NUT, ESN, 10-32	2

SUPPORT ROD

19	3365-02-PA	DS SUPPORT ROD ASSEMBLY 44"	1
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LOWER CHAIN ASSEMBLY 0279-00-AA

20	0281-00-PA	STUD, BOTTOM, 3 5/8"	1
21	0013-00-PA	WASHER, 13/16" x 17/32" x .030	2
22	0124-00-PA	BUSHING, SPLIT TUBE, LONG	1
23	0135-00-PA	WASHER, 13/16" x 19/32" x .030	1
24	0197-00-PA	COLLAR .5051D	1
25	5180-00-PA	ROLL PIN, 3/16" x 3/4"	1
26	0053-02-PA	FRAME, ALUMINUM, W DRILLED	1
27	0010-00-PA	ADHESIVE NUMBER STRIP	1
28	5158-02-PA	SCREW, PAN HD, 10-32 x 1"	2
29	5030-03-PA	NUT, ESN, 10-32	2

B	JFF	09/07/99	RECOVER AND REDRAWN
A	JDP	06/09/92	MODIFIED "CLEAR" DIM

REV.	BY	DATE	DESCRIPTION
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DS CHAIN ASSEMBLY

DRAWN BY	DATE	CHK'D BY	DATE	SCALE	REV.
GDS	3-16-92	AlexF		NONE	01-AA-6059-00 B

6. 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 roller chain, refer to Maintenance Manual, page 14.

7. MOTOR DRIVE BELT ADJUSTMENT:

The drive belt between the motor and speed reducer is properly adjusted upon installation at the factory. Should adjustment become necessary during service, refer to Maintenance Manual, page 14.

8. SPEED REDUCER MAINTENANCE:

The speed reducer has been filled with oil prior to shipment, however, the oil level should be checked prior to operating the conveyor. Keep reducer free of dirt to permit heat transfer from the gear box case.

9. ELECTRICAL CIRCUIT ASSEMBLY:

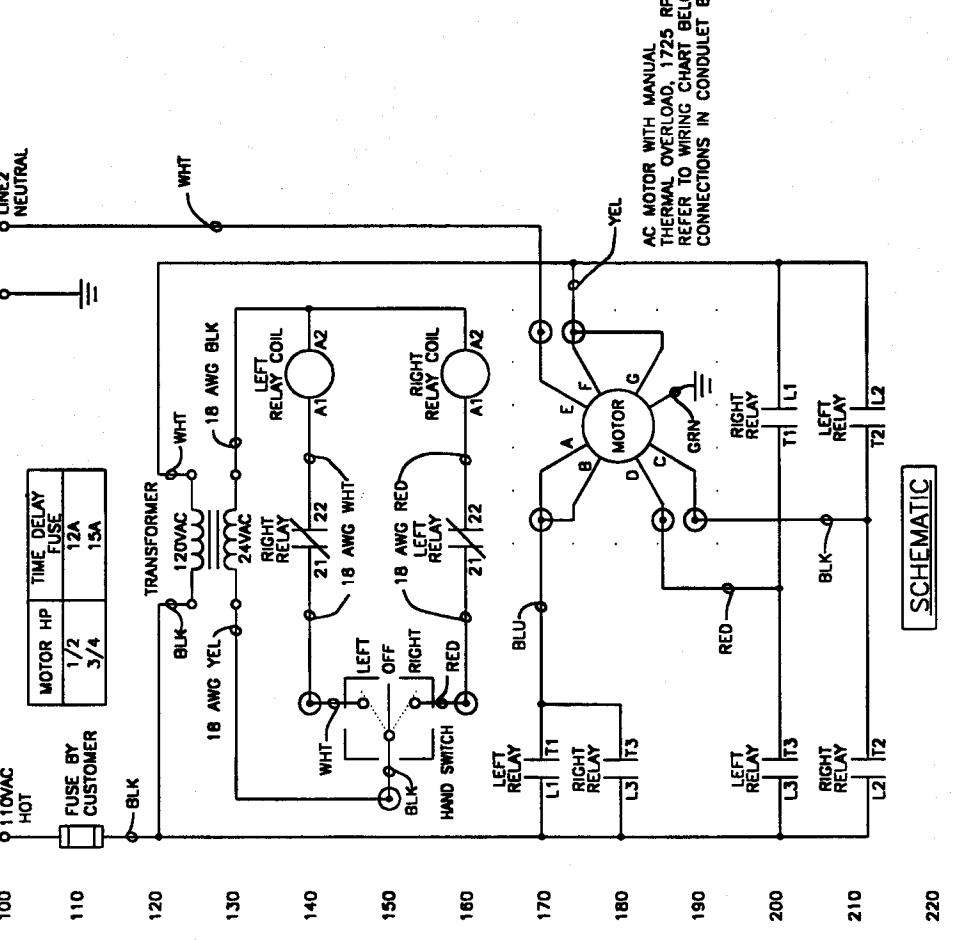
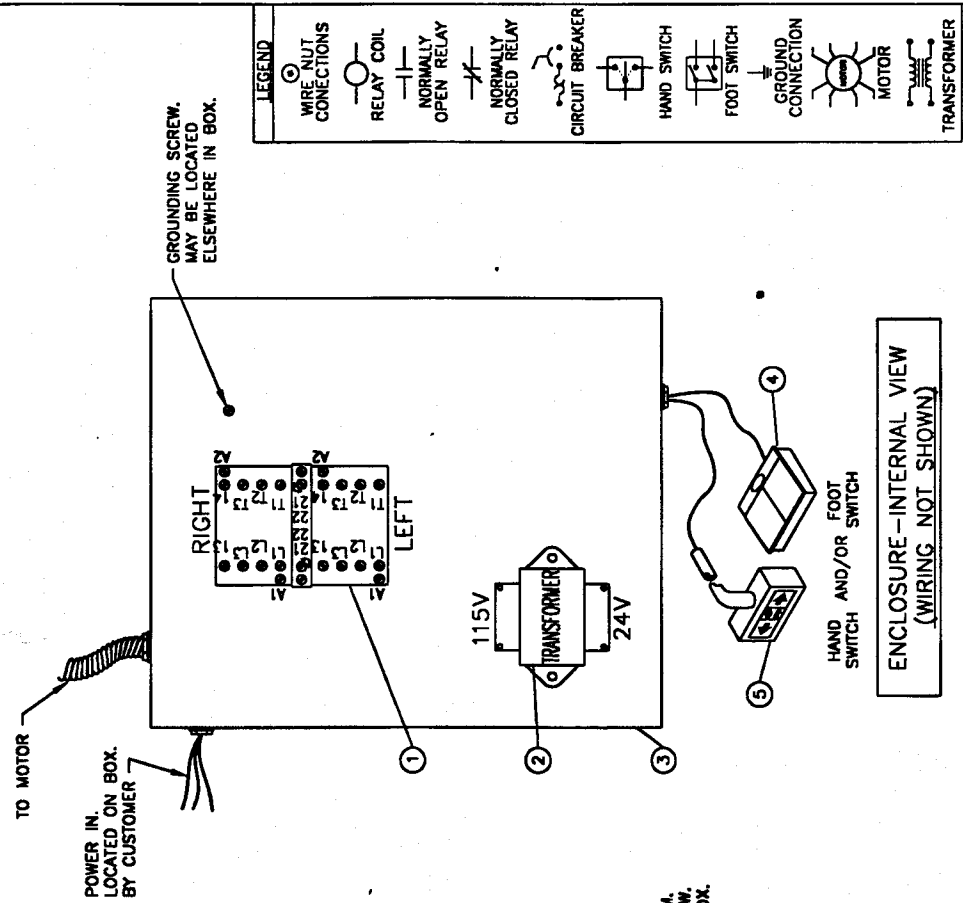
1. Unbolt and reposition switch arms to proper location.
2. Connect switch control cable at junction box by matching wire colors.
3. Connect automatic control if conveyor is so equipped by plugging into starter box.
4. Secure down all wiring to posts so that sprockets and garments cannot snag wiring.
5. Make sure all switches are in "OFF" position.
6. Remove all tools and obstructions from conveyor.
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 volt, single phase, 60 cycle unless marked otherwise. Customer must provide a code approved connection. **See wiring diagram at rear of manual and inside motor control box.**
9. Operate manual switch forward and reverse.
10. Observe operation:
 - Chain should roll freely on track.
 - All nylon wheels should turn. (Check for dirt picked up during shipping).
 - Look for parts damaged in shipment.

NOTE:

Because single phase capacitor start motors are not instantly reversible, you must wait 2 seconds before changing conveyor direction.

If the conveyor has a 3-phase motor, a time delay is built into the electrical starting circuit to prevent instantaneous reversal of the conveyor.

BILL OF MATERIAL			
ITEM #	WHITE P/N	DESCRIPTION	QTY.
1	2151-12-PA	CONTACTOR, REV AG-LVLT	1
2	2260-04-PA	TRANSFORMER, 115/24 50VA	1
3	2038-06-PA	JUNCTION BOX, 10 x 12 x 4.75	1
4	0260-01-AA	FOOT SWITCH ASSEMBLY	1
5	1588--AA	HAND SWITCH, METAL CASING	1



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10 BORIGHT AVENUE, KENILWORTH N.J. 07033

White

WIRING SCHEMATIC
CAROUSEL 110V/1PH/60HZ
REVERSING MANUAL CONTROLS
FIELD VERSION

DWG. NO. 24-WA-2113-00
ASSY/PART NO. 2113-00-AA
REV. A

DWG. FILENAME 24211300M1
SHEET 1 OF 1

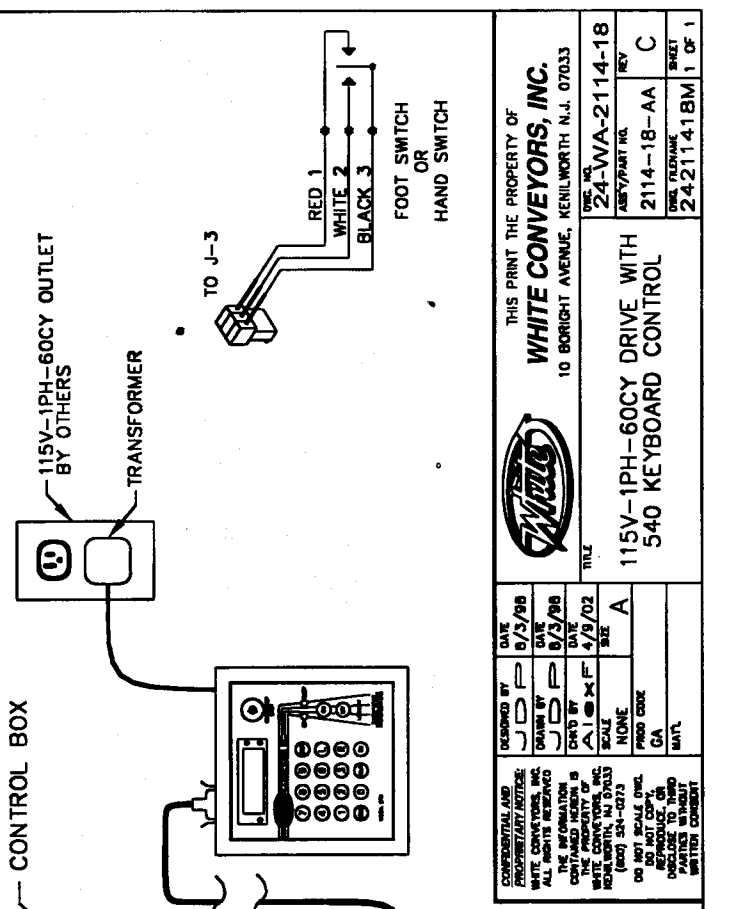
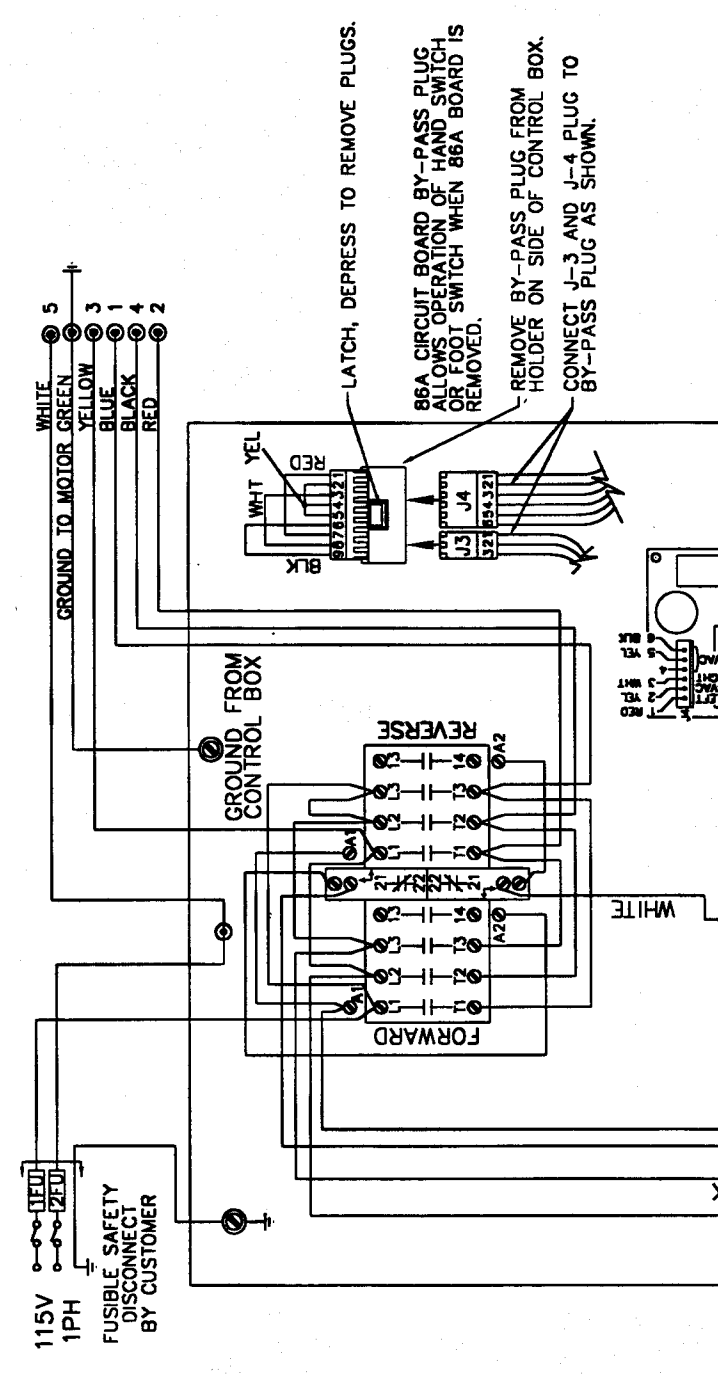
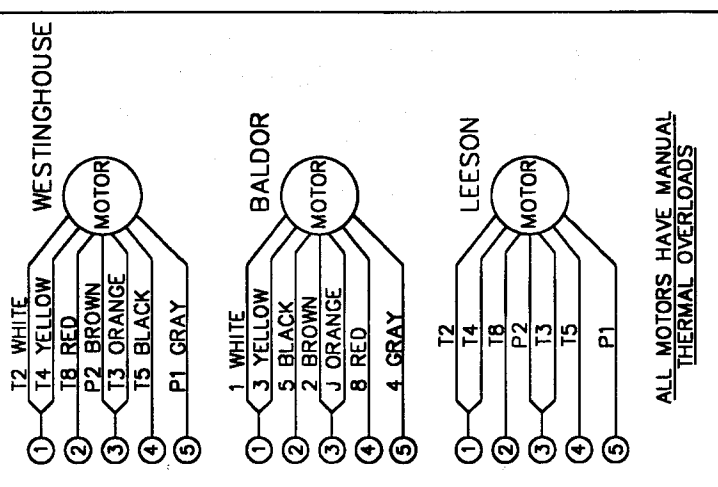
DESIGNED BY	JDP	DATE	8/2/93
DRAWN BY	JDP	DATE	8/2/93
CHK'D BY	AKF	DATE	4/9/02
SCALE	-	SIZE	A
PROD CODE	CA		
MATL.			

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DO NOT SCALE DWG. REPRODUCE OR DISCLOSE TO THIRD PARTIES WITHOUT WRITTEN CONSENT

NOTE: ALL WIRES ARE 14 GAGE UNLESS OTHERWISE SPECIFIED. UL AND CSA APPROVED, THWN.

MOTOR WIRING CHART	
TERMINAL LETTER	MOTOR MANUFACTURER
A	LEESON/BALDOR
B	1
C	2
D	3
E	4
F	5
G	6



LATCH, DEPRESS TO REMOVE PLUGS.

86A CIRCUIT BOARD BY-PASS PLUG ALLOWS OPERATION OF HAND SWITCH OR FOOT SWITCH WHEN 86A BOARD IS REMOVED.

REMOVE BY-PASS PLUG FROM HOLDER ON SIDE OF CONTROL BOX.

CONNECT J-3 AND J-4 PLUG TO BY-PASS PLUG AS SHOWN.

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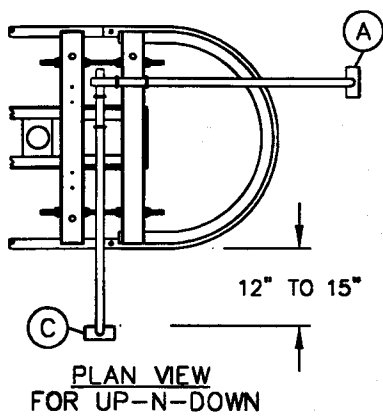
White

115V-1PH-60CY DRIVE WITH 540 KEYBOARD CONTROL

DESIGNED BY	JDF	DATE	9/3/96
DRAWN BY	JDF	DATE	9/3/96
CHECKED BY	AJ	DATE	4/9/02
SCALE	NONE	SIZE	A
PROJ CODE	CA		
MATERIAL			

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REV. NO. 24-WA-2114-18
ASST/PART NO. 2114-18-AA
REV. C
REV. DATE 24211418M
SHEET 1 OF 1



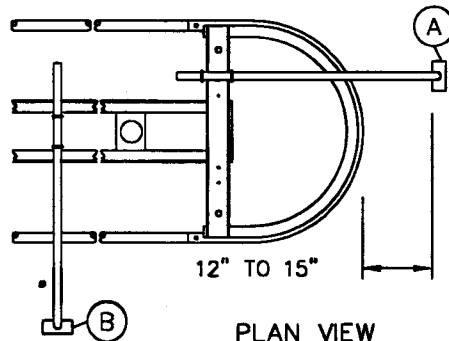
PLAN VIEW FOR UP-N-DOWN

HAND SWITCH TYPICAL MOUNTING POSITION.

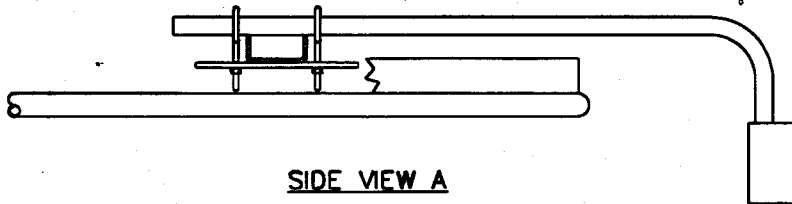
(A) FOR STANDARD NOSE END.

(B) FOR MOUNTING ANYWHERE ALONG LENGTH OF MACHINE.

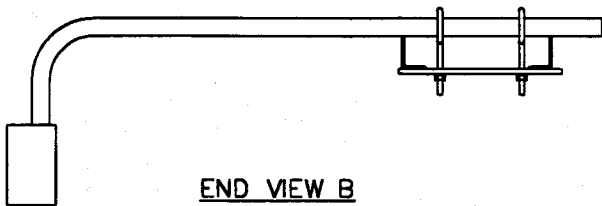
(C) FOR UP-N-DOWN CONVEYORS. NOSE END SIDE MOUNTING.



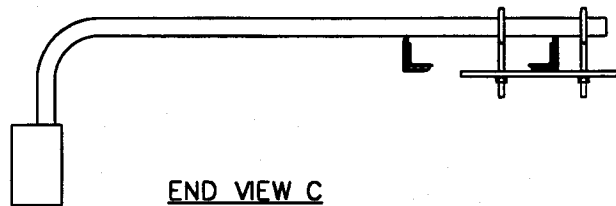
PLAN VIEW FOR STD. NOSE



SIDE VIEW A



END VIEW B

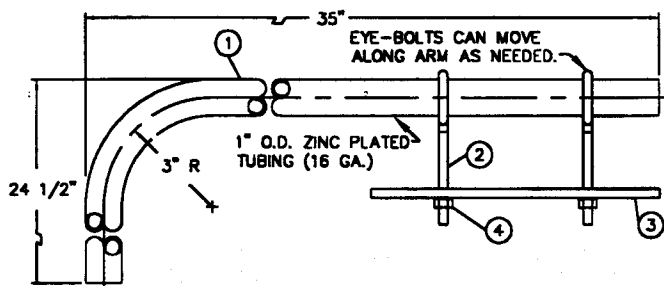


END VIEW C

INSTRUCTIONS:

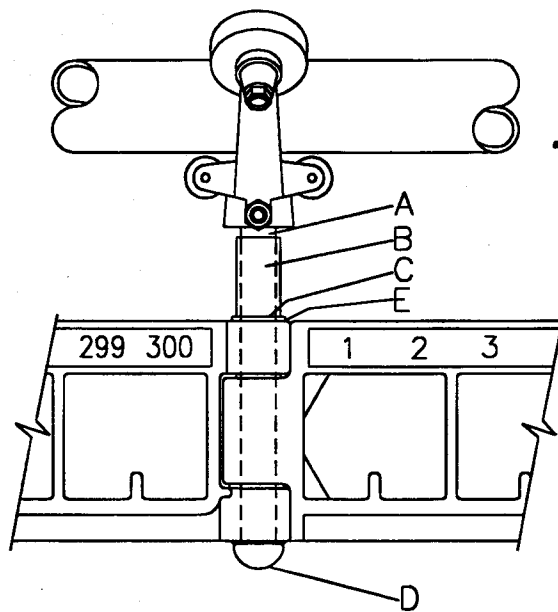
1. IF YOU HAVE A STOR-U-VEYOR YOU WILL MOUNT THE HAND SWITCH ARM AT POSITION (A) OR (B). IF YOU HAVE AN UP-N-DOWN CONVEYOR YOU WILL LOCATE THE SWITCH ARM AT (A) OR (C).
2. REMOVE THE NUTS (4) AND THE RETAINING STRAP (3) FROM THE EYEBOLTS (2).
3. PLACE THE ARM AND THE EYEBOLTS IN THE POSITION YOU HAVE CHOSEN. THE VIEWS FOR A, B, C, SHOW THE ORIENTATION OF THE EYEBOLTS AND STRAP WITH THE CONVEYOR FRAME.
4. REPLACE THE STRAP AND HAND TIGHTEN THE NUTS. EXTEND THE ARM OUT FROM THE CONVEYOR FRAME APPROXIMATELY 12" TO 15" TO CLEAR THE MOVING GARMENTS. TIGHTEN THE NUTS WITH A 1/2" SOCKET OR WRENCH.

HAND SWITCH ARM SPECIFICATIONS



LEGEND				
ITEM#	PART#	DESCRIPTION	LENGTH	QTY.
1	1597-01-PA	SWITCH ARM	24 1/2"	1
2	0095-09-PA	EYE-BOLT 5/16-18UNC	-	2
3	2621-00-PA	SWITCH ARM MTC STRAP	-	1
4	5031-05-PA	KEP-NUT 5/16-18UNC	-	2

B	CHANGED TO NEW TITLE BLOCK	10-3-01	DEW
A	RECOVER AND UPDATE OLD FILE WAS 02-AA-4386-04	8-27-99	JFF
REV	ECN	DESCRIPTION	DATE BY
<small>CONFIDENTIAL AND PROPRIETARY NOTICE: WHITE CONVEYORS, INC. ALL RIGHTS RESERVED. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF WHITE CONVEYORS, INC. (DUNS 804-8873) DO NOT COPY, REPRODUCE, OR DISCLOSE TO THIRD PARTIES WITHOUT WRITTEN CONSENT.</small>		DESIGNED BY: JDF DRAWN BY: JDF DATE: 10/20/92 DATE: 10/20/92 CHECKED BY: AIXF SCALE: NONE PROJ CODE: A DATE: 4/11/02 FILE:	THIS PRINT THE PROPERTY OF WHITE CONVEYORS, INC. 10 BRIGHT AVENUE, KENILWORTH N.J. 07033 FILE NO: 02-AA-1588-01 PART NO: 1588-01-AA REV: B FILE NUMBER: 02158801_REV_B_1 SHEET: 1 OF 1
		HAND SWITCH INSTALLATION	
		24 1/2" ARM	



DOUBLE DECK
STOR-U-VEYOR FRAME

CHAIN HINGE PIN LUBRICATION INSTRUCTIONS

1. Place a drop of White Conveyor brand "ALL CONVEYOR CHAIN LUBE" inside of short tube spacer (B) at (A) and spin the short tube spacer by hand.
2. Raise the short tube spacer (B) and washer (C) exposing shaft of hinge bolt (D). Place a drop of oil on the hinge bolt, on the opposite side at (E).
3. Wipe off excess oil. Run the conveyor several revolutions and wipe off any excess oil.

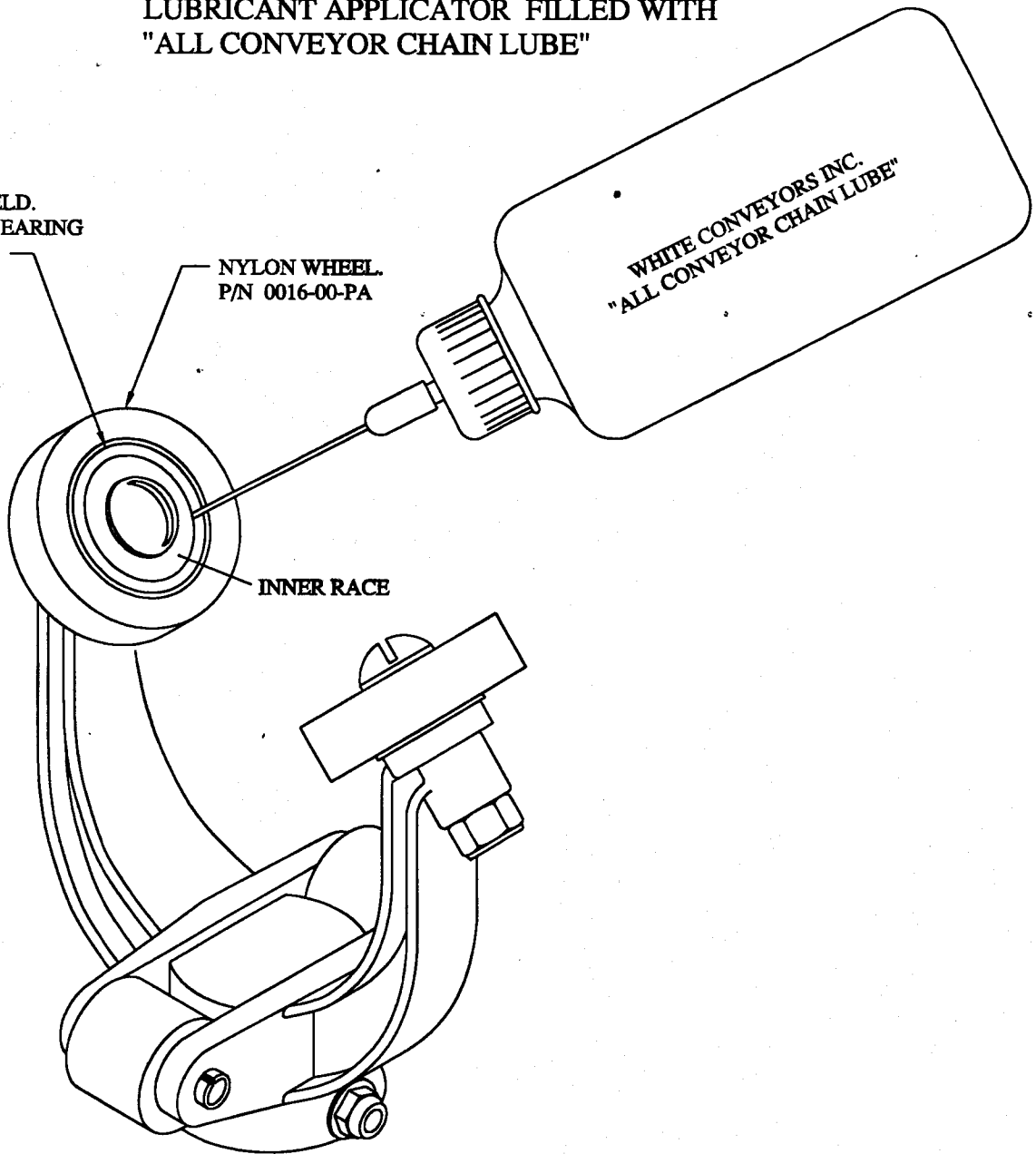
LUBRICANT APPLICATOR FILLED WITH
"ALL CONVEYOR CHAIN LUBE"

NYLON SHIELD.
PROTECTS BEARING
FROM DIRT.

NYLON WHEEL.
P/N 0016-00-PA

WHITE CONVEYORS INC.
"ALL CONVEYOR CHAIN LUBE"

INNER RACE



INSTRUCTIONS FOR LUBRICATING WHEEL BEARINGS

Insert applicator tip between inner race and bearing shield. This provides a gap which allows the lubricant to flow to the ball bearings. Spin wheel after applying lubricant and wipe off any excess.