

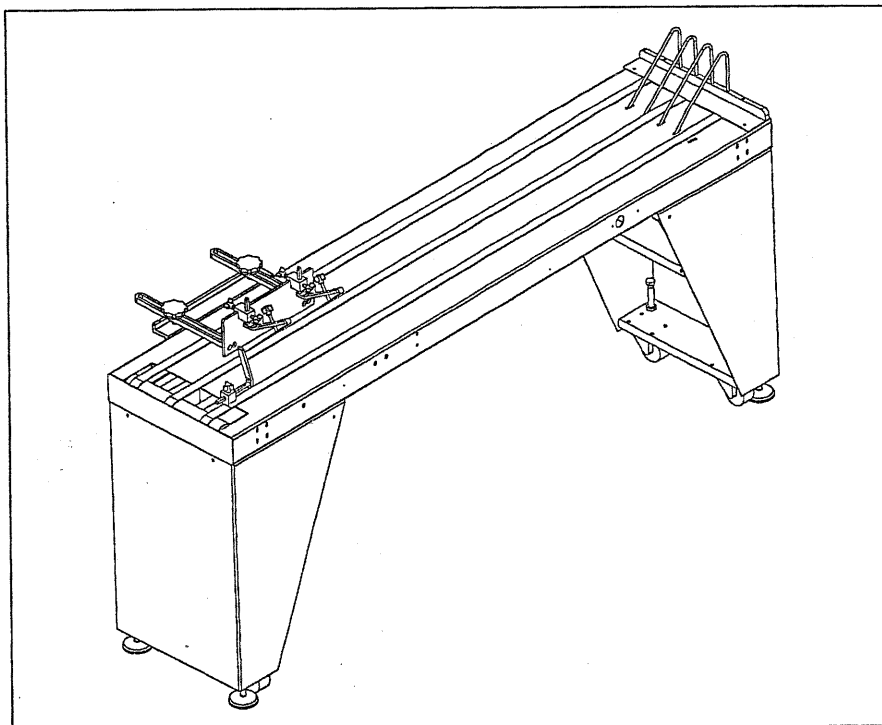
Kirk-Rudy, Inc.

Instruction

and Parts Manual

KR314 Conveyor

4ft, 6ft, 8ft, 10ft, 12ft, 18ft Length



Manufactured by Kirk-Rudy, Inc.

Before using this machine, all operators must study this manual to understand and follow the safety warnings and instructions. Keep these instructions with the machine for future reference. If you have any questions, contact your local Kirk-Rudy, Inc. Distributor.

10000-314

REV.2 08/04/99

Manual

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1.0 Important Safety Instructions

SAVE THESE INSTRUCTIONS. Read all instructions before using this product.



WARNING

- * NEVER OPERATE THE MACHINE WITHOUT ALL GUARDS OR SAFETY DEVICES IN PLACE.
- * ALWAYS TURN POWER OFF WHEN MAKING ADJUSTMENTS.
- * ALWAYS DISCONNECT THE POWER SUPPLY BEFORE ANY MAINTENANCE OR SERVICE WORK.
- * NEVER START THE MACHINE WITHOUT FIRST CHECKING ALL PERSONNEL ARE CLEAR OF MOVING PARTS.
- * KEEP FINGERS CLEAR OF ALL MOVING PARTS.
- * NEVER REMOVE THE PRODUCT FROM THE MACHINE WHILE MACHINE IS RUNNING.
- * SHOULD MISFED PRODUCT JAM THE MACHINE AND STOP IT FROM RUNNING, ALWAYS PRESS THE STOP BUTTON BEFORE CLEARING PRODUCT. IF THE STOP BUTTON IS NOT PRESSED AND THE JAM IS CLEARED, THE MACHINE WILL BEGIN RUNNING.
- * IT IS NOT RECOMMENDED THAT LOOSE CLOTHING, JEWELRY AND LONG HAIR BE WORN WHILE OPERATING THIS MACHINERY.
- * ALWAYS USE AN EXPERIENCED ELECTRICIAN WHEN TROUBLE-SHOOTING ELECTRICAL PROBLEMS.
- * CHANGES OR MODIFICATIONS TO THIS UNIT NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

2.0 SPECIFICATIONS

PRODUCT SIZE RANGE	English	Metric
Minimum Size:	3" W x 5" L	76mm x 127mm
Maximum Size:	17" W x 15 1/2" L	43.18cm x 39.37cm

MACHINE DATA	English	Metric
Length		
KR314-4	48"	122cm
KR314-6	72"	183cm
KR314-8	84"	213cm
KR314-10	108"	274cm
KR314-12	132"	335cm
KR314-18	204"	518cm
KR314-24	276"	701cm
Width	16"	40.6cm
Height	30"	76.2cm
Weight	Net:	
	Ship:	

ELECTRICAL DATA		
Stand Alone Version	110/220 Volts, 50/60 Hz, Single Phase, 6 Amps	
Connection to KR Base	90 VDC Three Pin Connection Two Pin Connection for Stop Circuit	

3.0 INSTALLATION

3.1 UNCRATING AND UNPACKING



WARNING

Read and follow all Safety Instructions in Section 1, Page 5 before proceeding.

1. Remove conveyor from crate.
2. Inspect for damage.
3. Locate and open spare parts box (usually shipped inside main machine).
4. Compare packing list with the enclosed items. The conveyor will either have a 90° kit or a straight-away kit. The following items should be included:
 - All Conveyors
 - 90° Kit
 - Straight Away Kit
5. Roll conveyor into place using the casters provided.
6. Level the unit and raise the casters off the floor using the four leveling legs.

3.2 ASSEMBLY

NOTE: Read all Safety and Operating Instructions contained in this manual before beginning operation and assembly.

1. Assemble and install end piece and rod stops as shown in diagram.
2. Assemble and install 90° kit or straight away kit as shown in appropriate diagram.

4.0 OPERATING INSTRUCTIONS

4.1 OPERATION

1. Roll conveyor in place and install foot mounting. Level and adjust as necessary.
2. Plug in conveyor electrical cords to main machine. The two pin connector is the stop circuit. The three pin connector provides power to the conveyor motor.
3. Check for proper operation. The conveyor should run when the main machine runs. Check the speed control and the direction of travel of the belts. The stop button on the conveyor should stop the main machine and the conveyor. Belt guides located underneath the conveyor provides placement of the belts.

4.2 TROUBLE SHOOTING

Problem:

1. Conveyor will not run:
 - Check electrical connection to main machine and power supply.
 - Check fuses, power supply, main machine, conveyor motor board.
 - Pull belts by hand and check for mechanical problem.
2. Conveyor runs backwards:
 - Disconnect power and reverse wire connections and motor plug connector underneath conveyor.
3. Conveyor makes noise:
 - Check for product jam.
 - Check for freedom of belt movement.
 - Check for drive chain rubbing.
 - Check for rollers rubbing side of frame.

5 MAINTENANCE

5.1 GENERAL MAINTENANCE



WARNING

Read and follow all Safety Instructions in Section 1, Page 5 before proceeding.

Keep conveyor and moving parts free of dirt, dust and trash. Periodically lubricate chain with chain lubrication. Lightly oil rollers to prevent rusting. Replace belts as necessary.

5.2 REPLACING AND ADJUSTING BELTS

1. Move the end roller in by turning set screws counter clockwise.
2. Hold belts at joint and pull inward to provide slack.
3. Pull out wire in joint.
4. Reverse procedure to install new belt and remove slack from belts by turning adjustment screws on end roller clockwise.

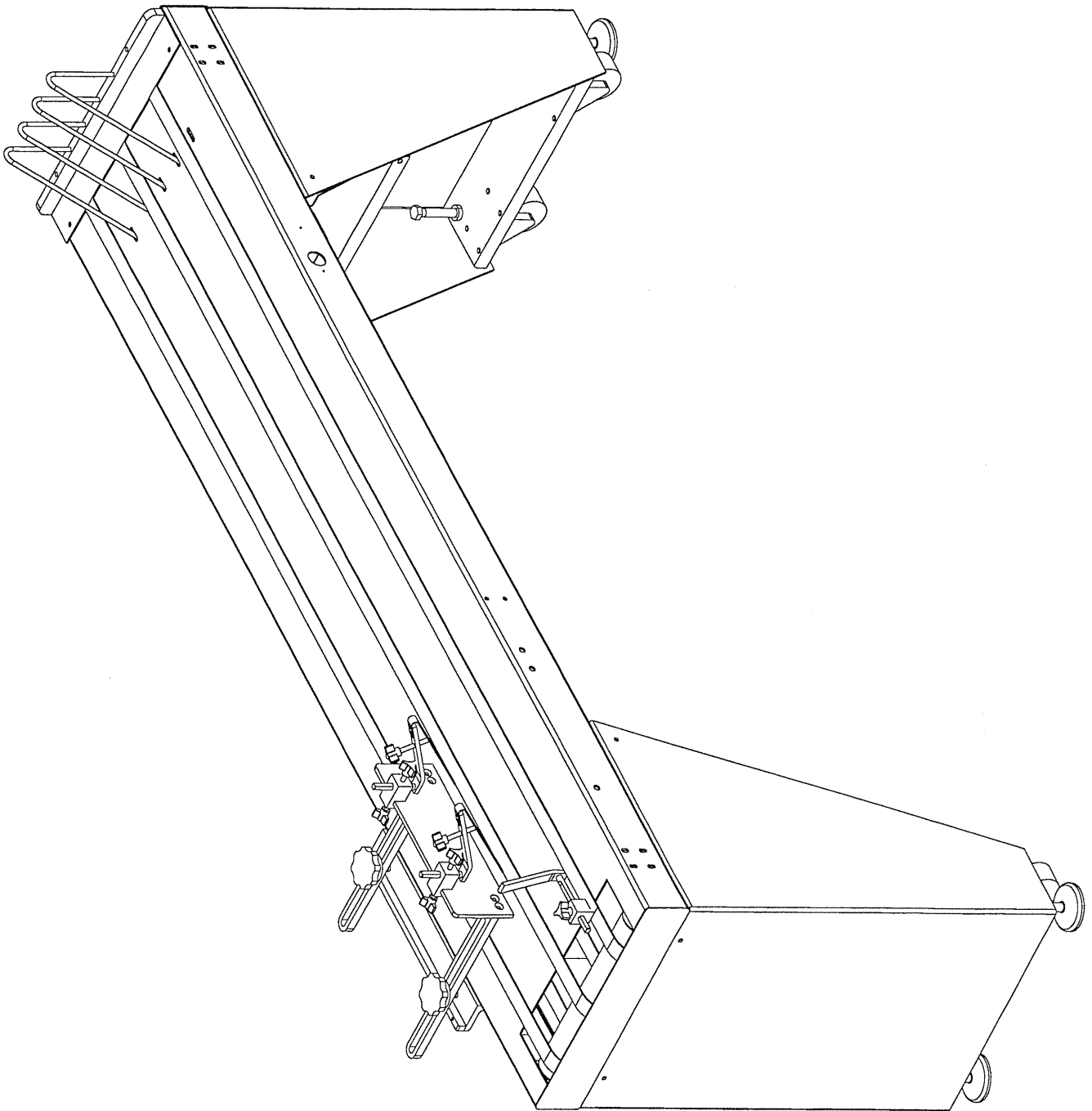
6 PARTS LISTS AND DIAGRAMS

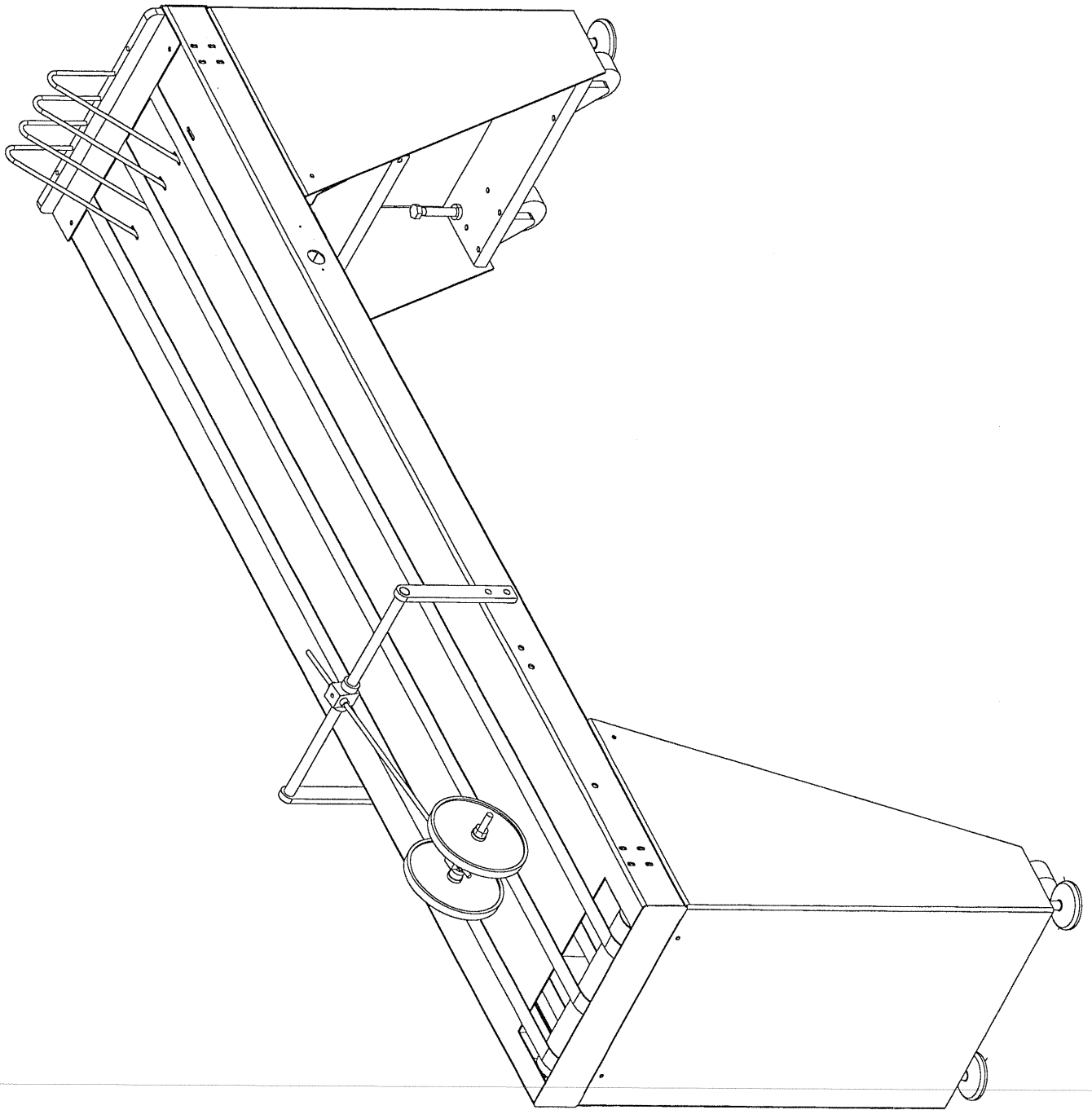
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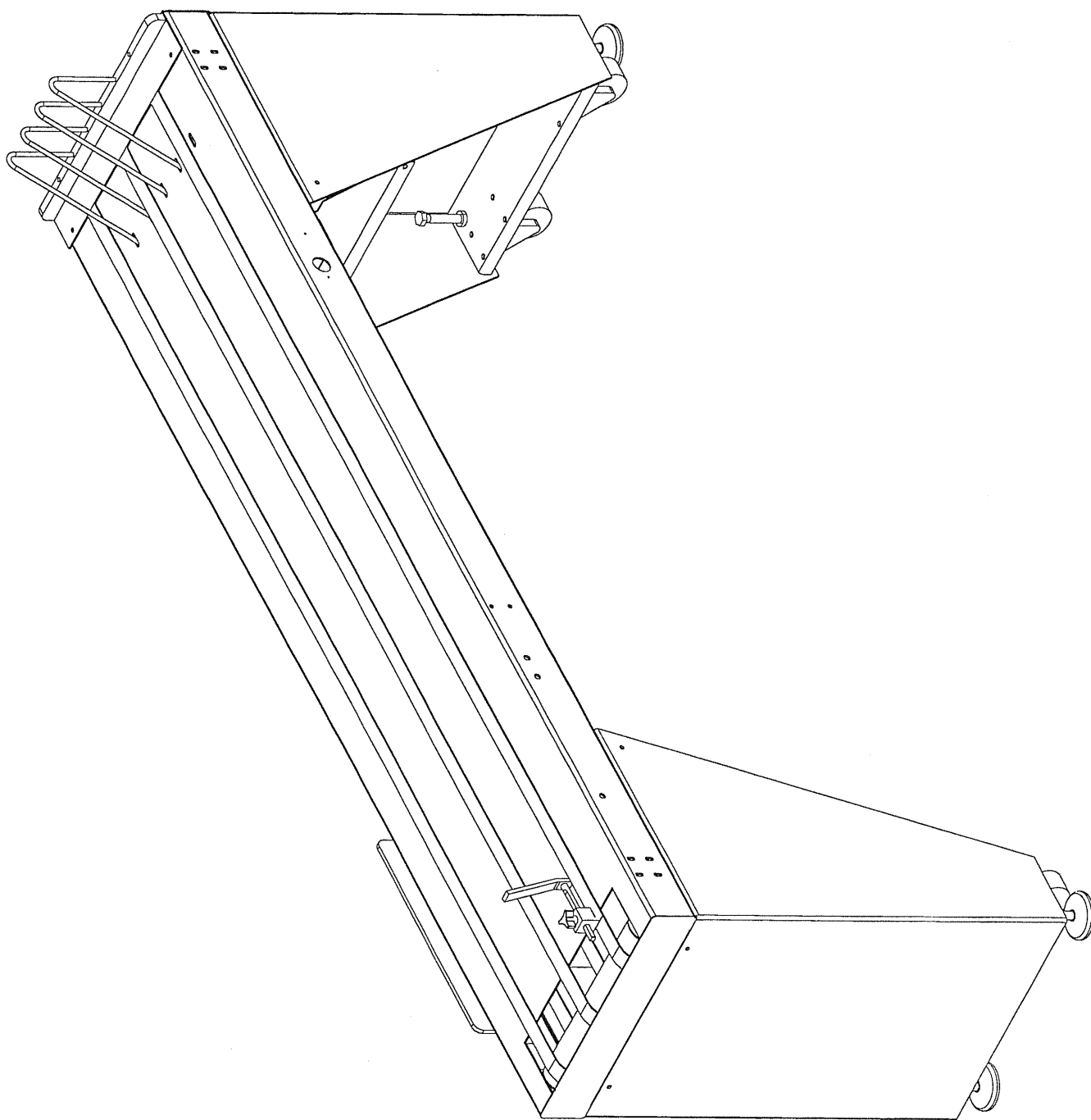
ITEM	PART NUMBER	DESCRIPTION
1	102112	KNOB
2	102119	KNOB
3	102200	COLLAR
4	102201	COLLAR
5	102206	COLLAR
6	103804	BEARING, HUB
7	105600	SHAFT, THD 1/4-20 X 1.25
8	105627	SHAFT, THD 1/4-20 X 2.00
9	105828	BELT, FLAT 98.5" X 1" 4' CONVEYOR
10	106312	BELT, FLAT 266.5" X 1" 12' CONVEYOR
11	105919	BELT, FLAT 146.5" X 1" 6' CONVEYOR
12	106313	BELT, FLAT 170.5" X 1" 8' CONVEYOR
13	105959	BELT, FLAT 410.5" X 1" 18' CONVEYOR
14	110012	CHAIN, #35 MASTER LINK
15	110020	CHAIN, #35 PER FOOT
16	110232	SPROCKET
17	190619	PLATE, NAME
18	190620	CASTER
19	190634	FOOT, MOUNTING
20	191004	INSERT, LEVELING LEG
21	201125-2	P.B. RED
22	201131	CONTACT, N.C. 120V/6A
23	201542	PLUG, 2 PIN CORD 250VAC
24	201543	PLUG, 3 PIN CORD 250VAC
25	500330-1	HUB, ROLLER
26	500331	HUB, ROLLER
27	500725-1	GUIDE, BELT
28	500835	ROLLER, BELT IDLER
29	500836	HUB, BELT ROLLER
30	501809	WHEEL
31	501811	SHAFT, ADJUSTMENT
32	501812-1	LEG, LEVELING
33	501816	BAR, TAKE-UP
34	501818	BLOCK, PIVOT
35	501819	BLOCK
36	501820	SHAFT, REAR DRIVE
37	501821	BAR, WHEEL
38	501822	SHAFT, KNOCK DOWN ROLLER
39	501823	POST
40	501824	BAR, WHEEL

41	501901	BAR, TAKE-UP
42	501904	SPRING, KNOCK DOWN
43	501905	BAR, SPRING
44	501906	BAR, SUPPORT
45	501907	SHAFT, GUIDE SUPPORT
46	501912	BAR, SUPPORT PLATE
47	501913	BLOCK, ROD ADJUSTMENT
48	501914	PLATE, ADJUSTMENT
49	501915	ANGLE, KNOCK DOWN
50	501919	PLATE, PRODUCT STOP
51	501919-1	PLATE, PRODUCT STOP
52	501920	BLOCK, GUIDE
53	501921	BAR, SPRING
54	501923	ROD, ADJUSTMENT
55	501923-1	ROD, ADJUSTMENT
56	501924	ROD, KNOB
57	501931	PLATE, SIDE
58	501932	PLATE, MOTOR
59	501940	COVER, CHAIN
60	509000-1A	REDUCER, 1/4 HORSE DOUBLE
61	509000-A	REDUCER, 1/2 HORSE DOUBLE
62	530178-01	GUARD, CONVEYOR MOTOR
63	530575-01	WLDMNT, CONVEYOR OUTFEED GUARD
64	530759-01	ROD, HOLDER
65	530760-01	ROD, STOP
66	530761-01	GUARD, CONVEYOR
67	530961-01	TOP, 6' CONVEYOR
68	530961-02	TOP, 4' CONVEYOR
69	530961-03	TOP, 8' CONVEYOR
70	530961-04	TOP, 12' CONVEYOR
71	530961-05	TOP, 10' CONVEYOR
72	530965-01	WLDMNT, CONVEYOR LEG
73	530965-02	WLDMNT, CONVEYOR LEG (CENTER)
74	530973-01	COVER, INFEED
75	531642-01	TOP, 18' CONVEYOR INFEED
76	531643-01	TOP, 18' CONVEYOR OUTFEED

6.2 DIAGRAMS







FG000072

105828
105903
105919
105944-1
106565

4' CONVEYOR
12' CONVEYOR
6' CONVEYOR
8' CONVEYOR
10' CONVEYOR

501919
501919
501919-1
501919-1

8' CONVEYOR
12' CONVEYOR
4' CONVEYOR
6' CONVEYOR

6' CONVEYOR
4' CONVEYOR
8' CONVEYOR
12' CONVEYOR
10' CONVEYOR

530961-01
530961-02
530961-03
530961-04
530961-05

530761-01

501907

530965-01

190620

190634

501812-1

530973-01

103804

500836

500835

501811

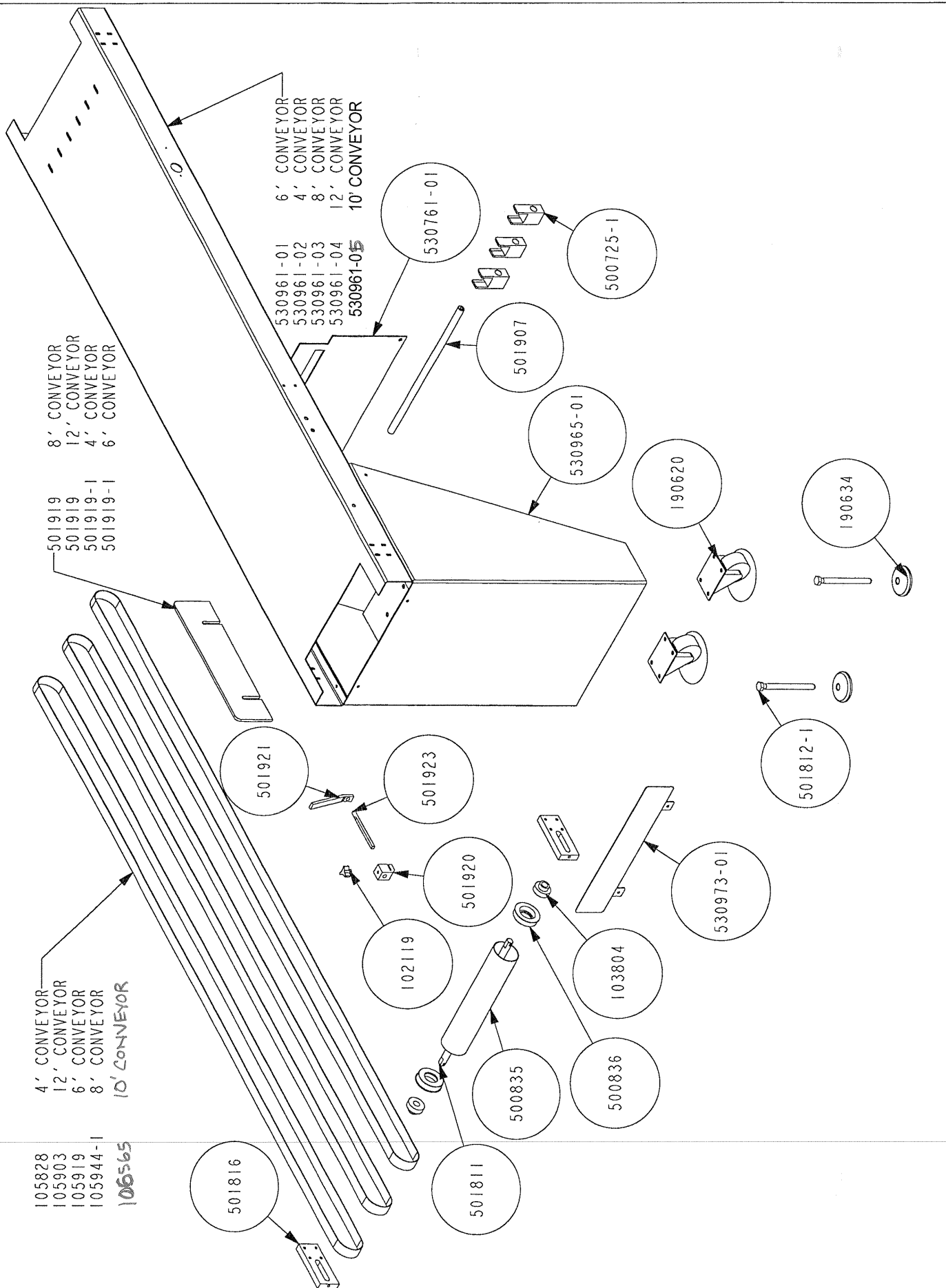
501920

102119

501923

501921

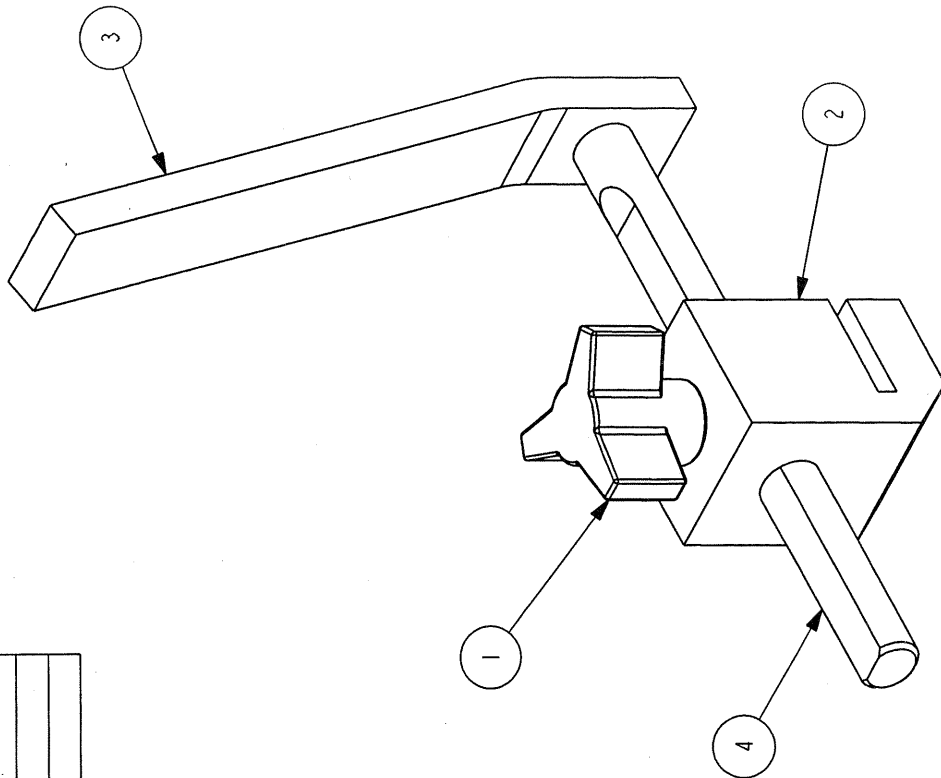
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548091-01

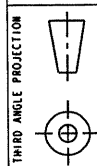
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1	1	102119	KNOB
2	1	501920	BLOCK, GUIDE
3	1	501921	BAR, SPRING
4	1	501923	ROD, ADJUSTMENT

REV NO	DATE	DESCRIPTION	ECN NO	BY
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DRAWN BY: CMC	SCALE 1.000	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		
CHECKED BY:	DATE 19-JUL-05	.XX	.XXX	ANG.
TRACED BY:	MASTER	.01	.005	.5
		REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED		
		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY		

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HEAT TREAT:	N/A
FINISH:	N/A

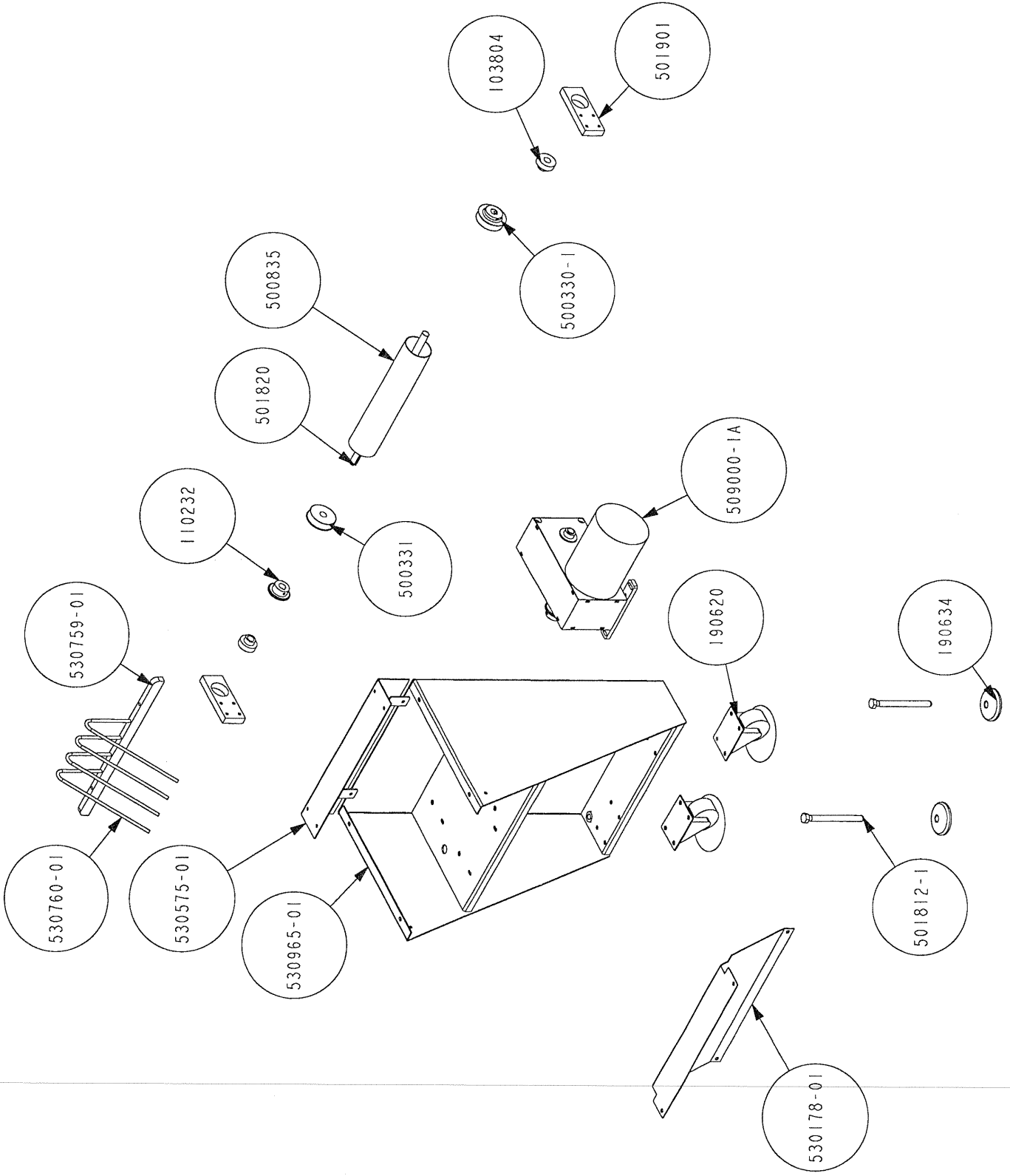


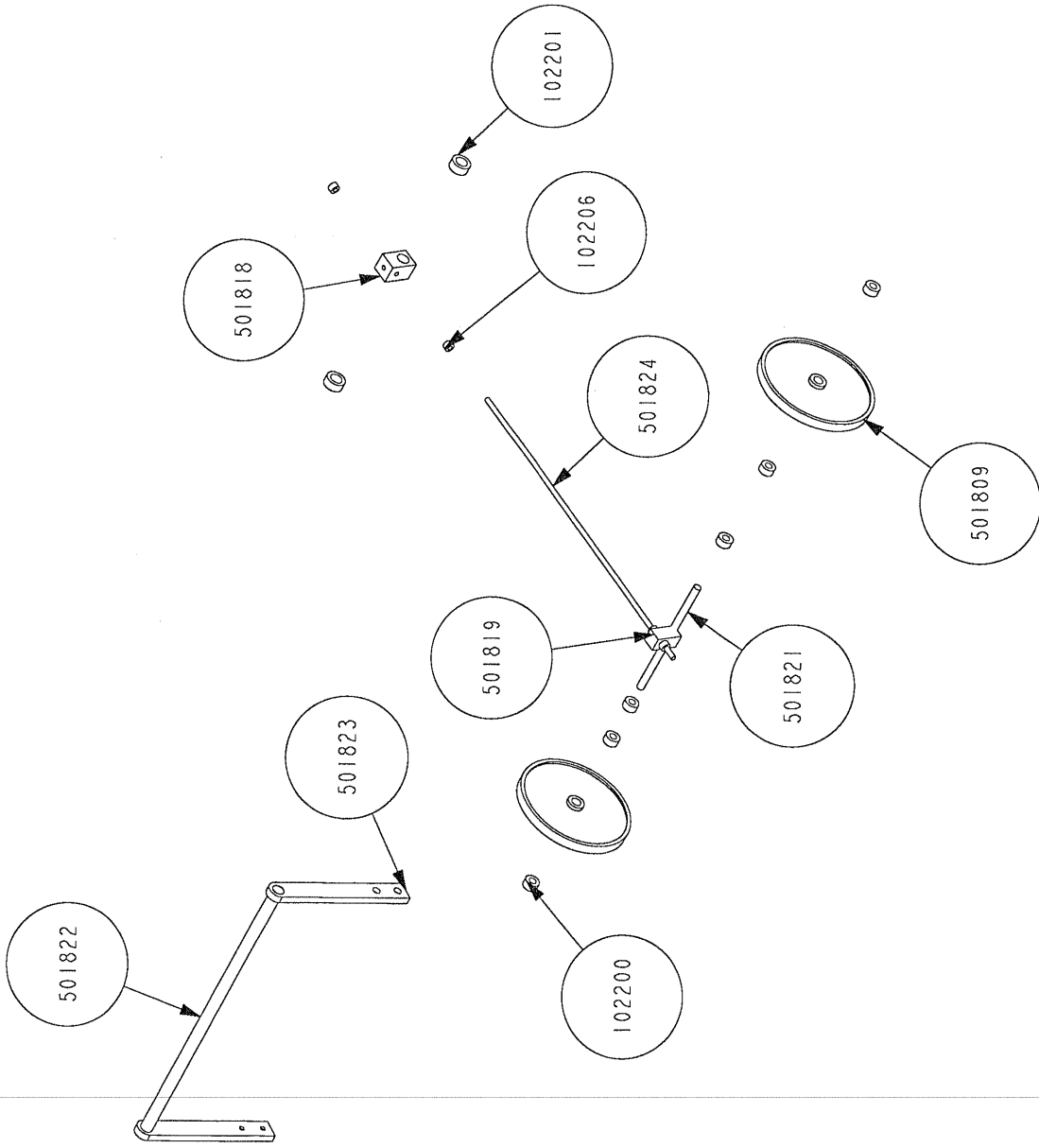
THIRD ANGLE PROJECTION
PROPRIETARY AND CONFIDENTIAL
NO PORTION OF THIS DRAWING
MAY BE QUOTED OR REPRODUCED
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EXPRESS WRITTEN PERMISSION
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WOODSTOCK, GA 30188 USA

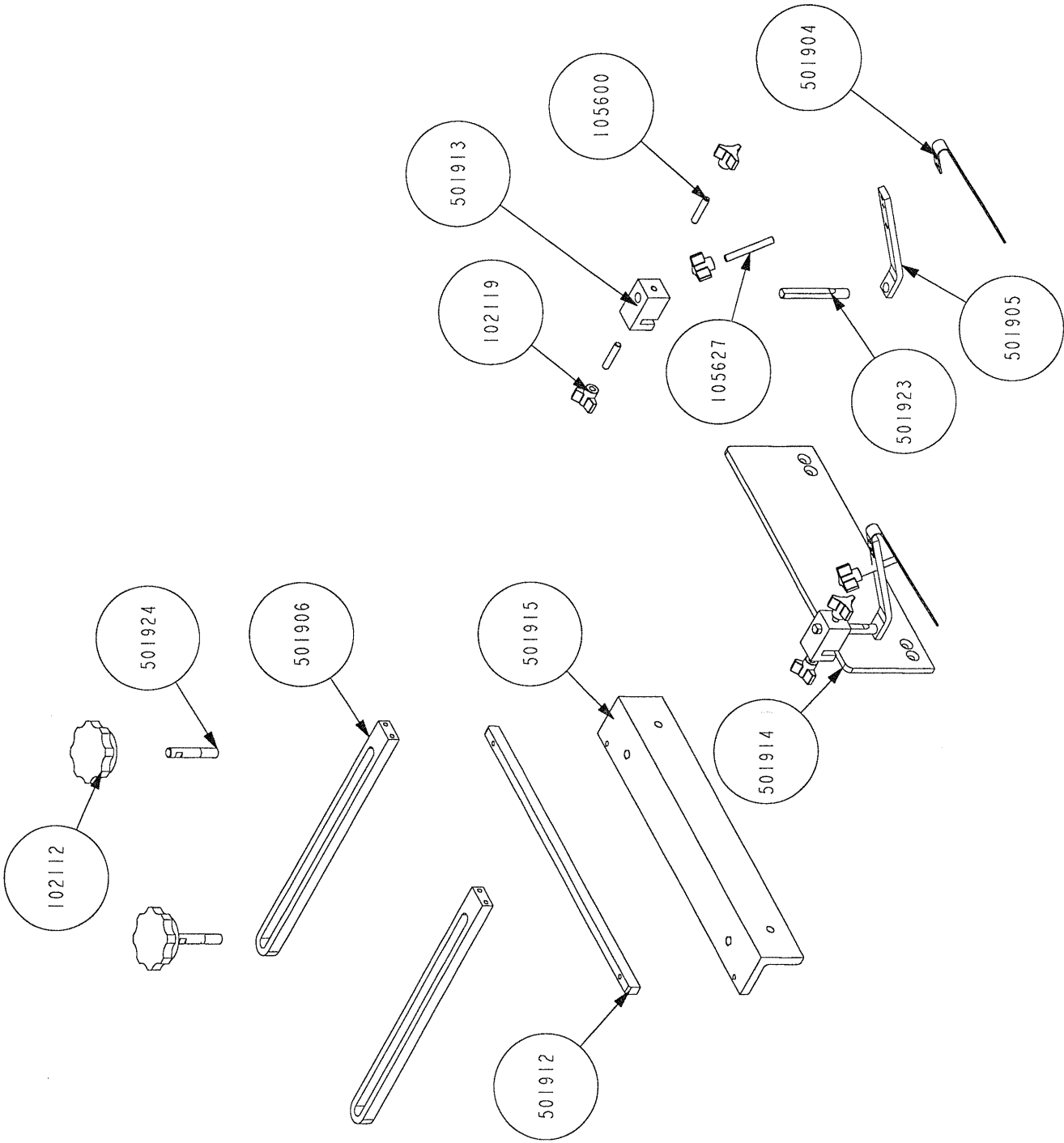
KIRK - RUDY, INC.
WOODSTOCK, GEORGIA

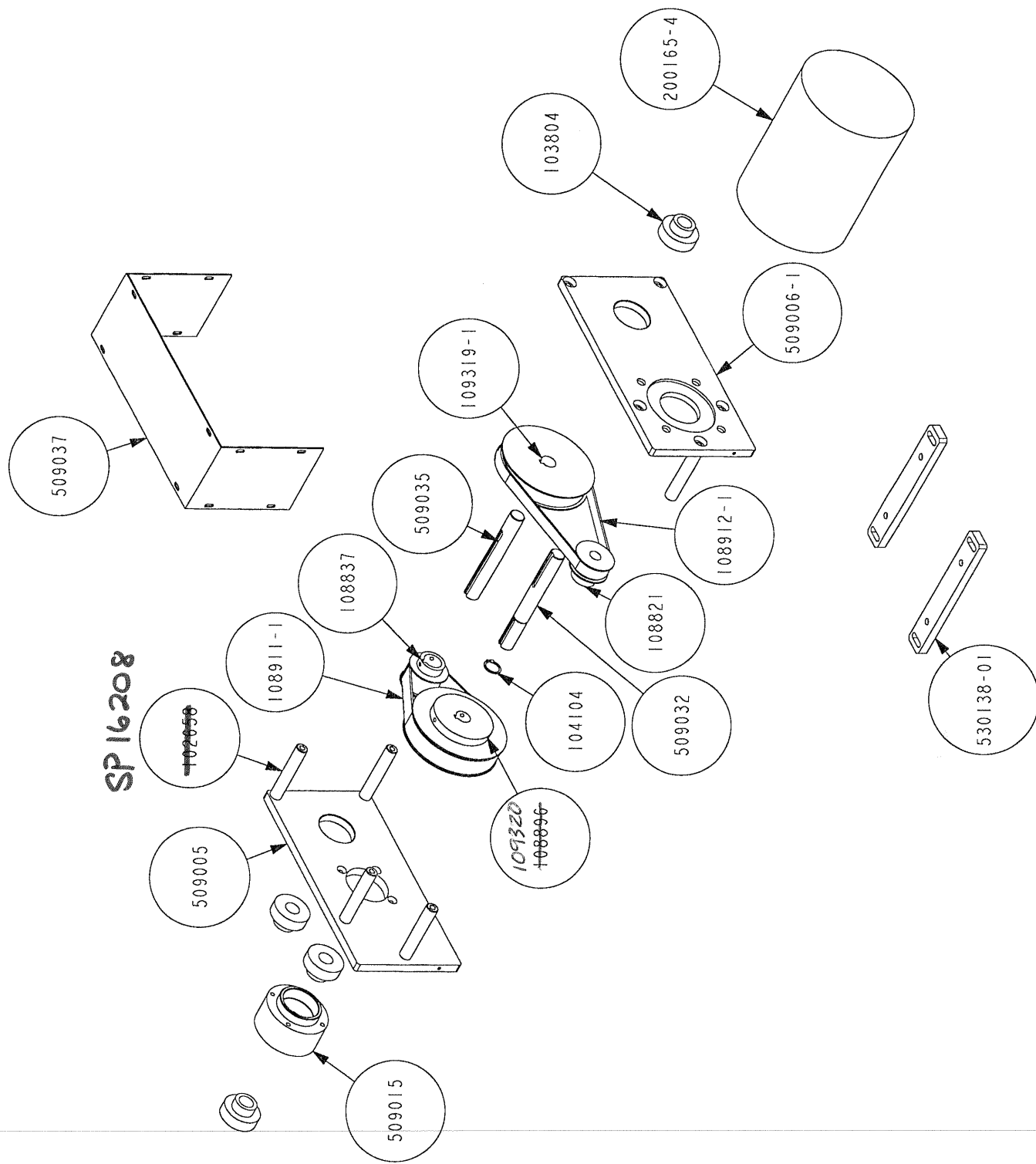
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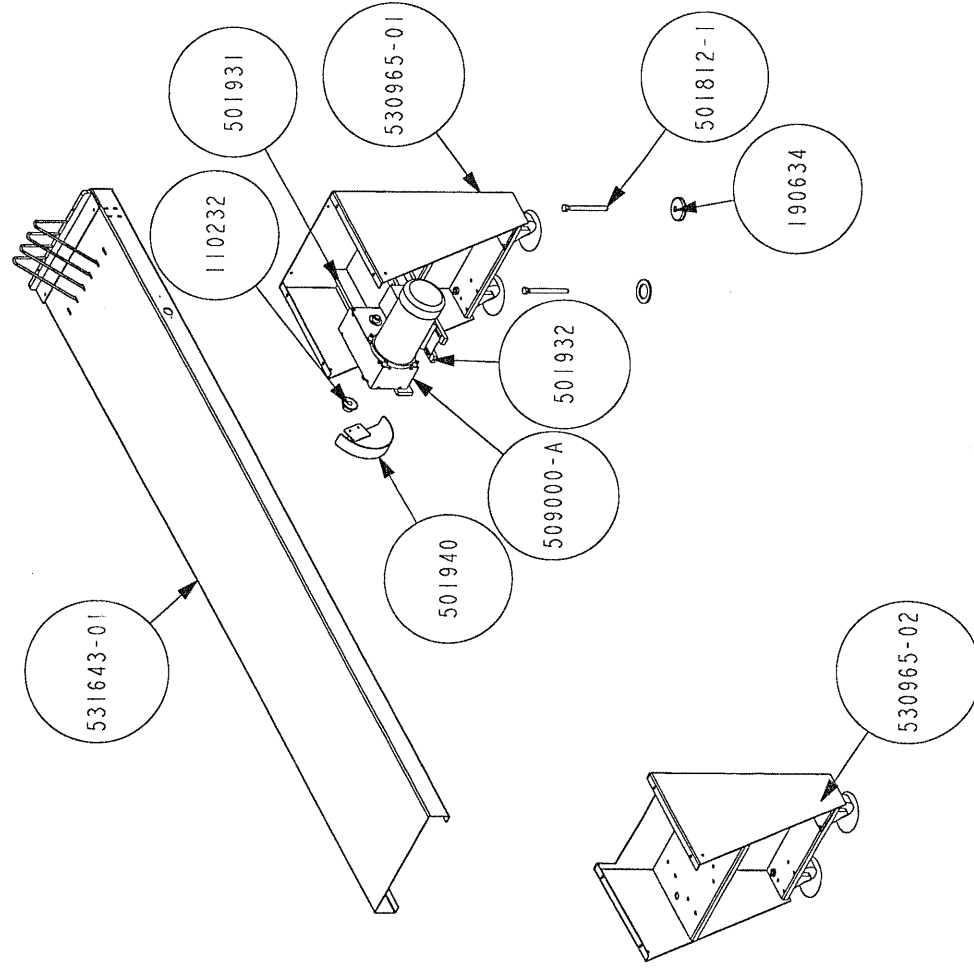
REQ'D	WHERE USED
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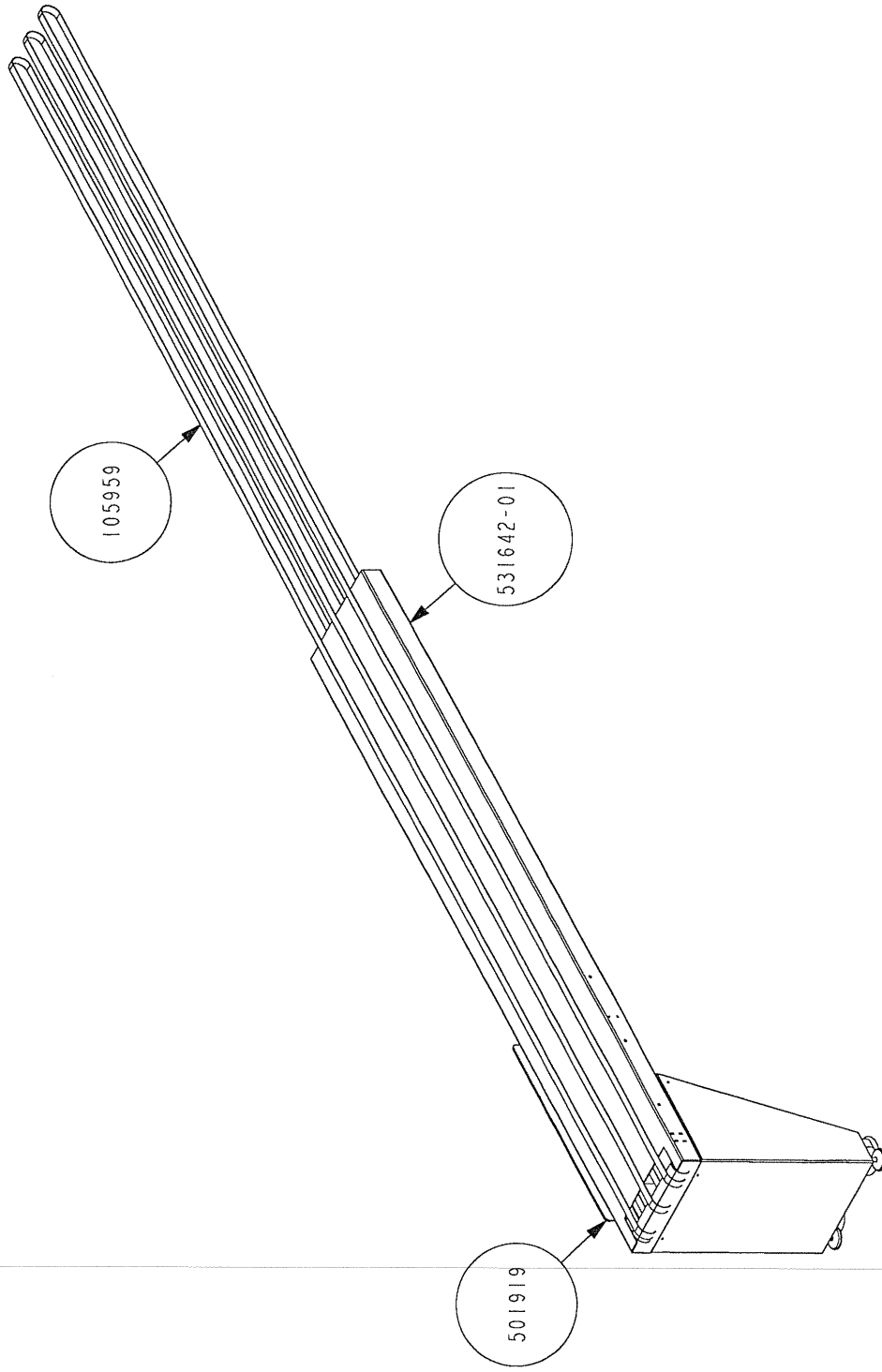








18' CONVEYOR OUTFEED



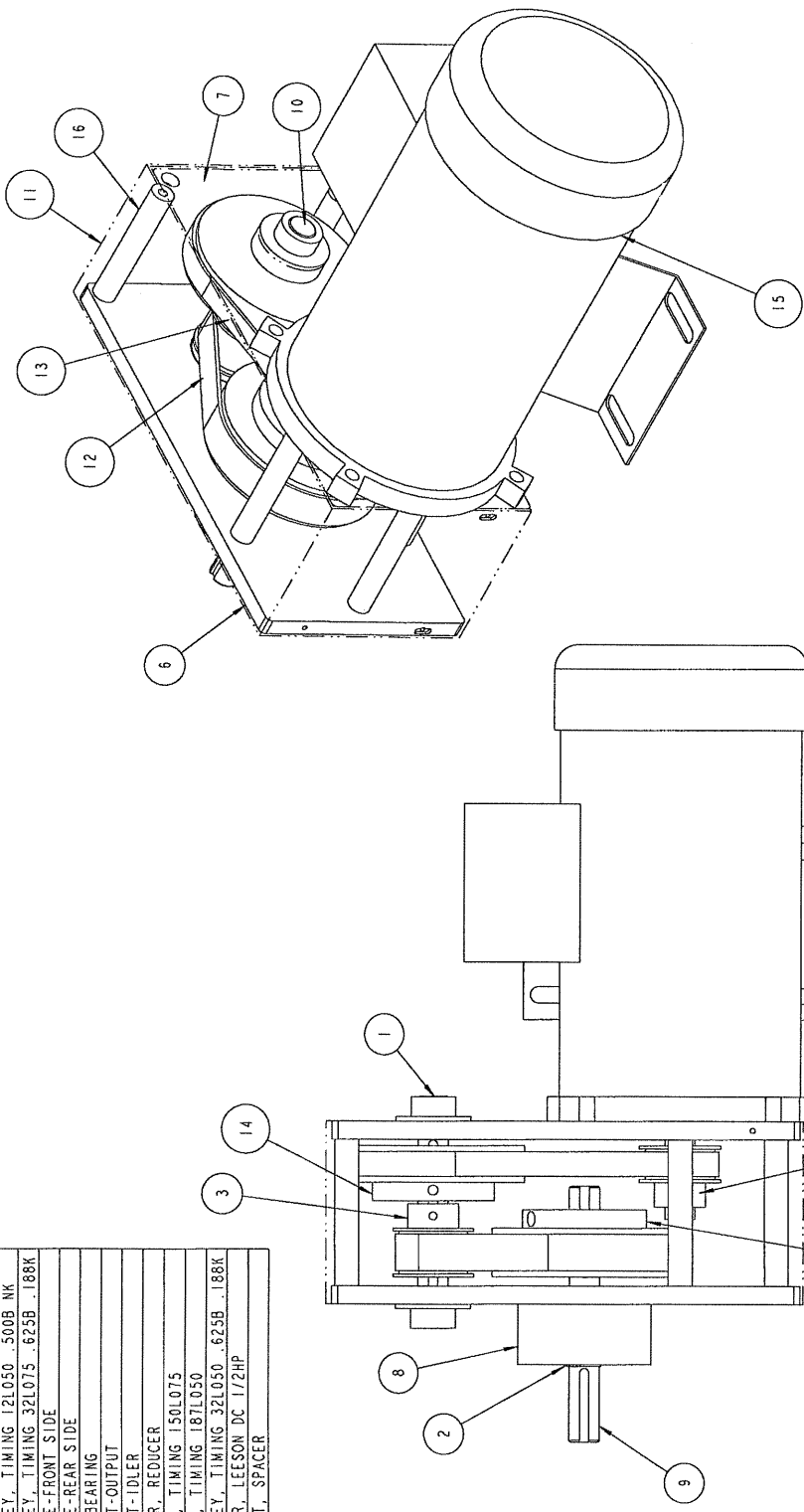
18' CONVEYOR INFEED

DRAWING 1

509000-A

REV	DATE	DESCRIPTION	BY
1	02-NOV-98	REPLACED SPACER AND PULLEYS CHANGED DRAWING SIZE	8401 MT

ITEMQTY	PART #	DESCRIPTION
1	4	103804 BEARING - HUB
2	1	104104 SNAPPING, .625
3	1	108809 PULLEY, TIMING 12L075 .625B .188K
4	1	108821 PULLEY, TIMING 12L050 .500B NK
5	1	109320 PULLEY, TIMING 32L075 .625B .188K
6	1	509005 PLATE-FRONT SIDE
7	1	509006 HUB-BEARING
8	1	509015 SHAFT-OUTPUT
9	1	509032 SHAFT-REDUCER
10	1	509035 COVER, REDUCER
11	1	108911-1 BELT, TIMING 150L075
12	1	108912-1 BELT, TIMING 187L050
13	1	109319-1 PULLEY, TIMING 32L050 .625B .188K
14	1	200152-2 MOTOR, LEESON DC 1/2HP
15	5	SPI6208 SHAFT, SPACER



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CHECKED BY:		DATE:	26-Feb-98	REMOVE ALL DIMENSIONS AND TOLERANCES UNLESS OTHERWISE NOTED			THIS DRAWING IS THE PROPERTY OF KIRK - RUDY, INC. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM KIRK - RUDY, INC., KENNESAW, GA 30144 USA.
TRACED BY:		MASTER:	M	HEAT TREAT:	NONE	MODEL:	THREE
				FINISH:	N/A	SHEET NO.:	10F1
							ASSY, MOTOR/REDUCER DR 1/2 HP
							509000-A

KIRK - RUDY, INC.
KENNESAW, GEORGIA

7.0 WIRING DIAGRAMS LIST

(ATTACHED SEPERATELY)

200 163 00 110	CONVEYOR STAND ALONE
200 163 00 111	CONVEYOR STAND ALONE WITH SPEED UP

8.0 APPENDIX

For KR314 Conveyor Stand Alone versions the following additional information is packaged separately with the documentation:

KB DC Motor Control Documentation.

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WARRANTY AND SERVICE

WARRANTY

Warranty: Kirk-Rudy, Inc., warrants to the original retail purchaser that this product is free from defects in the material and workmanship, and agrees to repair or replace, at Kirk-Rudy's option, any defective product within (90) days from the date of purchase. This warranty is not transferable. It covers damage resulting from defects in material or workmanship, and it does not cover conditions or malfunctions resulting from normal wear, neglect, abuse or accident.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.

Limitation of Remedies: If product is proven to be defective within the warranty period stated above, THE EXCLUSIVE REMEDY, AT KIRK-RUDY'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE PRODUCT, provided that the defective product is, at Kirk-Rudy's choice, returned immediately to Kirk-Rudy or authorized service representative designated by Kirk-Rudy, or made available at user's premises in a location suitable for servicing.

Limitation of Liability: Kirk-Rudy shall not otherwise be liable for any losses or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal or equitable theory asserted, including contract, negligence, warranty, or strict liability.

To obtain replacement parts and service, contact an Authorized Kirk-Rudy Dealer. Use Kirk-Rudy part numbers when ordering.

USE ONLY GENUINE KIRK-RUDY REPLACEMENT PARTS

KIRK-RUDY, INC
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WOODSTOCK, GA 30188
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FX 770-427-4036