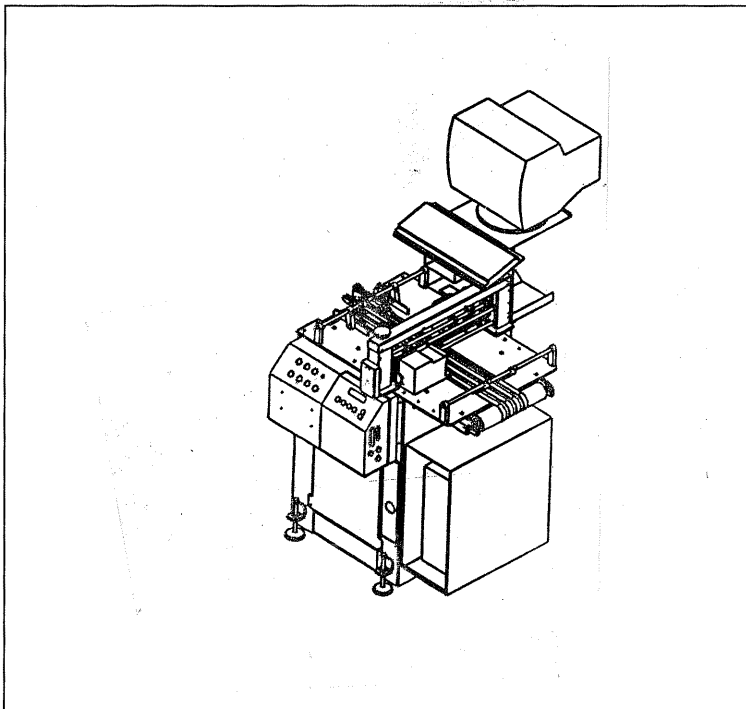


Kirk-Rudy, Inc.

Instruction and Parts Manual KR319B Winkjet



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.

10000-319B REV. 2 3/04/03

Manual

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
1	IMPORTANT SAFETY INSTRUCTIONS	3
2	SPECIFICATIONS	4
3	INSTALLATION	5
4	OPERATING INSTRUCTIONS	6
	4.1 BASE ELECTRICAL OPERATION	6
	4.1.1 OVERVIEW OPERATOR CONTROLS	
	4.1.2 PLUG INTERFACES	7
	4.2 SKID BARS	8
5	PARTS LISTS AND DIAGRAMS	9
6	APPENDIX	10
7	NOTES	11
8	WARRANTY AND SERVICE INFORMATION	12

NOTE: FIGURES AND DIAGRAMS ARE NOT INCLUDED IN PAGE NUMBERS.

1 Important Safety Instructions

Usage for other purposes may lead to unsafe condition.

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 SPECIFICATIONS

ELECTRICAL

110 VAC, 50/60Hz, Single Phase, 15 amp

PHYSICAL SIZE

ENGLISH

METRIC

Length:

32.25"

82 cm

Width:

29.44"

75 cm

Height: (TABLETOP)

33.5"

85 cm

Weight:

Shipping:

PRODUCTS

Minimum Size: 3"W X 5"L

Maximum Size 15" W X 9" L

*Limited print area

3 INSTALLATION

3.1 UNCRATING AND UNPACKING



WARNING

Read and follow all Safety Instructions in Section 1, Page 3 before proceeding.

The machinery is crated. Remove machines and all packaging from crates. Note: Some boxes are located inside the base cabinet.

Note: A forklift should be used to lift machine from pallet.

The Base is mounted on rollers.

3.2 ACCESSORIES AND SPARE PARTS

The accessories and spare parts are packaged and located inside the base cabinet. The box should be opened and checked against the enclosed packing list.

3.3 ASSEMBLY OF BASE

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

1. Locate machine in final location and mount the (4) 4" leveling screws and pads on the corners of the machine.

4 OPERATING INSTRUCTIONS

4.1 BASE – ELECTRICAL OPERATION

4.1.1 OVERVIEW OPERATOR CONTROLS



WARNING

Read and follow all Safety Instructions in Section 1, Page 3 before proceeding.

The following controls are located on the operator side of the feeder base. **(FIG. 1 & 2)**

Main Power Off Button (red, white circle, yellow plate): Pressing this button cuts the power to the entire machine. Twist to unlatch.

Main Power On Button: When this two-position switch is depressed, source voltage is supplied to the electrical panel and button will light up. This will make all of the switches on the electrical control panel active.

Stop Button (red plate): Machine operation can be manually stopped by depressing the stop button on the operator panel. Twist to unlatch.

Jog Button (black): The machine can be inched or jogged by depressing and releasing this button. The machine will continue to cycle if this button is held depressed.

Start Button (green): Continuous machine operation is achieved by depressing this button momentarily and releasing.

Speed Control, Table Conveyor: The knob controls the speed of the belts on the table. This speed should be set slightly greater than the feeder speed. Turn knob clockwise to increase belt speed, counterclockwise to decrease.

Feeder Stop Switch: When this two-position switch is depressed the feeder portion of the machine will turn off. The feeder that is controlled is dependent on the position of the 319B mode switch. The rest of the machine past the feeder will continue to operate.

Printer Switch: On/Off switch for Winkjet Printer.

4.1.2 PLUG INTERFACES

Plug Description	Plug Type
Winkjet controller interface Plugs (see figure #1)	
Winkjet/319B	8-Pin
Encoder	9-Pin
Product Beamswitch	4-pin
Stop In	2-pin Turck
Power Supply Plugs:	
120 Vac, 8 Amp	Standard 120VAC Outlet
Stop Plug:	
Conveyor Stop: Contact Closure	Male 3-Pin Twist Stop Out Socket

WINKJET CONTROLLER OUTPUT SIGNALS

Conveyor Speed Up: The conveyor speed up/stacker cycle output signal is used for two different functions depending on which machine is placed inline with the 319. The conveyor speed up is used to control speed up on a shingle conveyor for address breaks. The amount of time for the speed up is determined by the Winkjet controller.

Feeder Stop: The feeder stop function is used to stop the shuttle motor at the end of a run.

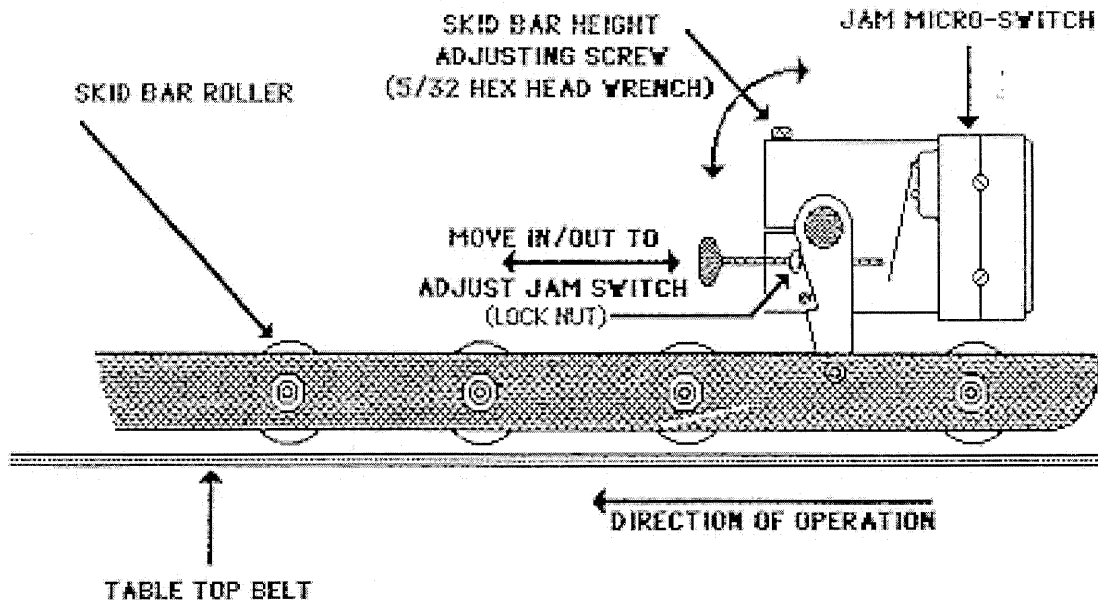
Side Guides:

Position side guides to within 1/8" of mailing piece as it is propelled across entire tabletop. Rotate the two knurled hand knobs at each end of the side guides and rotate ¼ turn counterclockwise to allow movement of guides--to lock, rotate knobs clockwise while twisting with slight pressure. Each side guide can be pivoted left to right by loosening the allen screws in side guide mounting blocks--when pivoted the guide will raise and allow clearance between table belts and label head pressure rollers. (Caution: Do not position guides directly over table belt(s) or label head pressure roller(s). The guide mounting screws can be left slightly loose for faster set-up when guide movement is required.

4.2 SKID BAR

The skid bar rides on top of the product to help transport the mailing piece across the tabletop. The skid bar should be placed over one of the tabletop belts for best results. To move the skid bars locate and loosen the 1/8" hex head set screws in the lock collars on the right-hand side of the machine. The left-hand side of the machine has a lock collar and a skid bar block that is held in place with a 5/32" hex head screw. The KR215B is furnished with one skid bar, and is not needed when running small pieces such as cards or envelopes but can be installed when running large or heavy product.

Attached to one end of the skid bars is a "jam detector switch" on certain machines. This switch, when properly set, will stop the machine when a jam or double feed occurs.



To set the skid bar, rotate the machine until a mailing piece is under the skid bar. Loosen the 5/32" hex head screw on the skid bar block. Adjust until the skid bar is resting on the mailing piece and the skid bar rollers rotate as the product is transported. Lock in place with the 5/32" hex head screw.

The jam switch is adjusted by loosening the lock nut, moving the adjustment knob in or out and tightening the lock nut. The microswitch should disengage and stop the machine when a jam or double feed occurs.

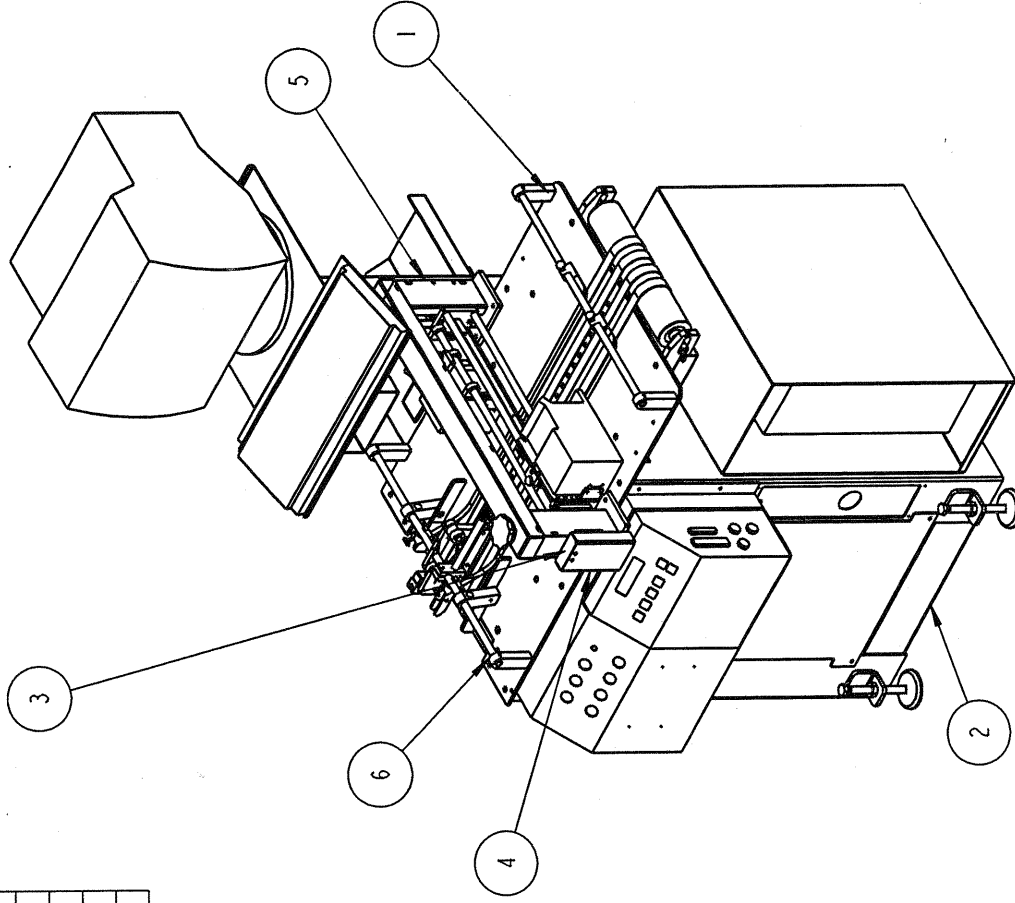
NOTE: The machine will not run if the jam switch is not set properly (see Section 4.2).

5 PARTS LISTS AND DIAGRAMS

This section contains the entire mechanical bill of materials and assembly drawings.

ITEM	QTY	PART #	DESCRIPTION
1	1	533195-04	ASSY, 319 WINKJET CONVEYOR
2	1	533196-04	ASSY, CABINET & COVERS
3	1	536497-05	BAR, CABLE COVER
4	1	536504-09	COVER, CABLE FRONT
5	1	538169-08	ASSY, INKJET BRACKET 319
6	1	538188-04	ASSY, SKIDBAR/SENSOR

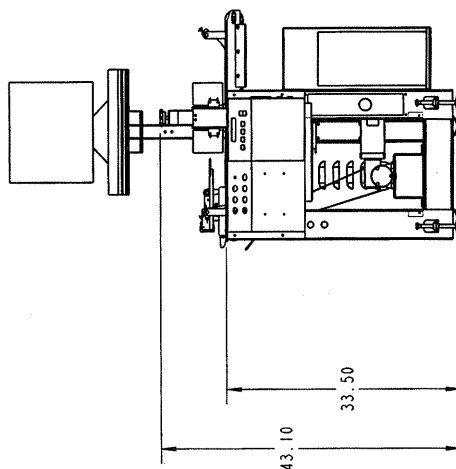
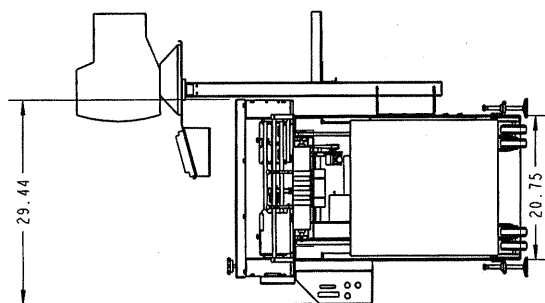
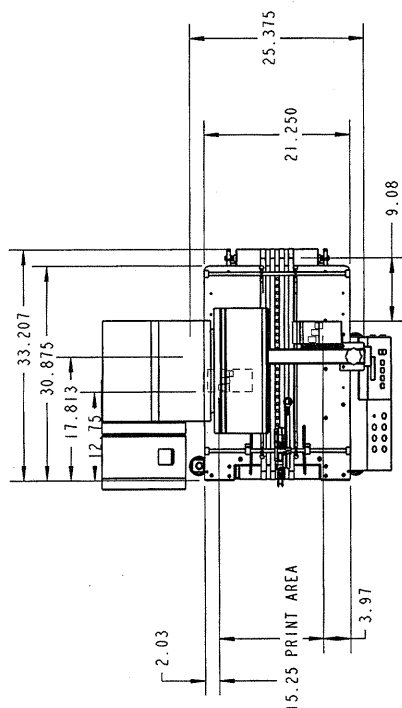
REV NO	DATE	DESCRIPTION	ECN NO	BY
-----------	------	-------------	-----------	----



X	XXX
REQ'D	WHERE USED

DRAWN BY: TJG	SCALE 0.080	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL: XXX	THIRD ANGLE PROJECTION 	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA					
CHECKED BY:	DATE 23-Jan-02	<table><tr><td>.XX</td><td>.XXX</td><td>ANG.</td></tr><tr><td>.01</td><td>.005</td><td>.5</td></tr></table> REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	.XX	.XXX	ANG.	.01	.005	.5	HEAT TREAT: XXX	MODEL: SP91900	TITLE: ASSY, WINKJET BASE
.XX	.XXX	ANG.									
.01	.005	.5									
TRACED BY:	MASTER 		FINISH: XXX	SHEET NO: 20F3	DRAWING # SP91900-2						

REV NO	DATE	DESCRIPTION	ECH NO	BY
--------	------	-------------	--------	----

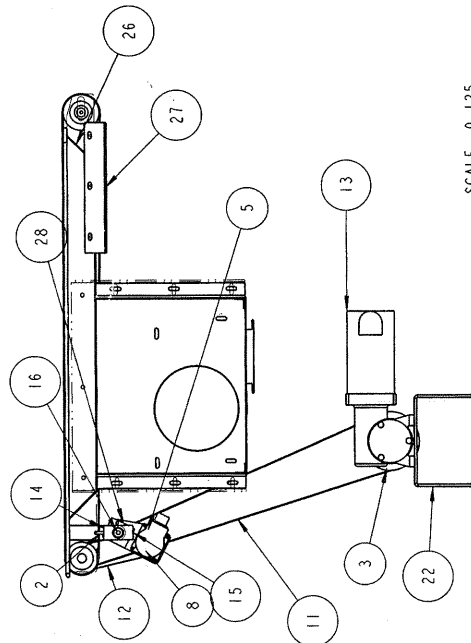
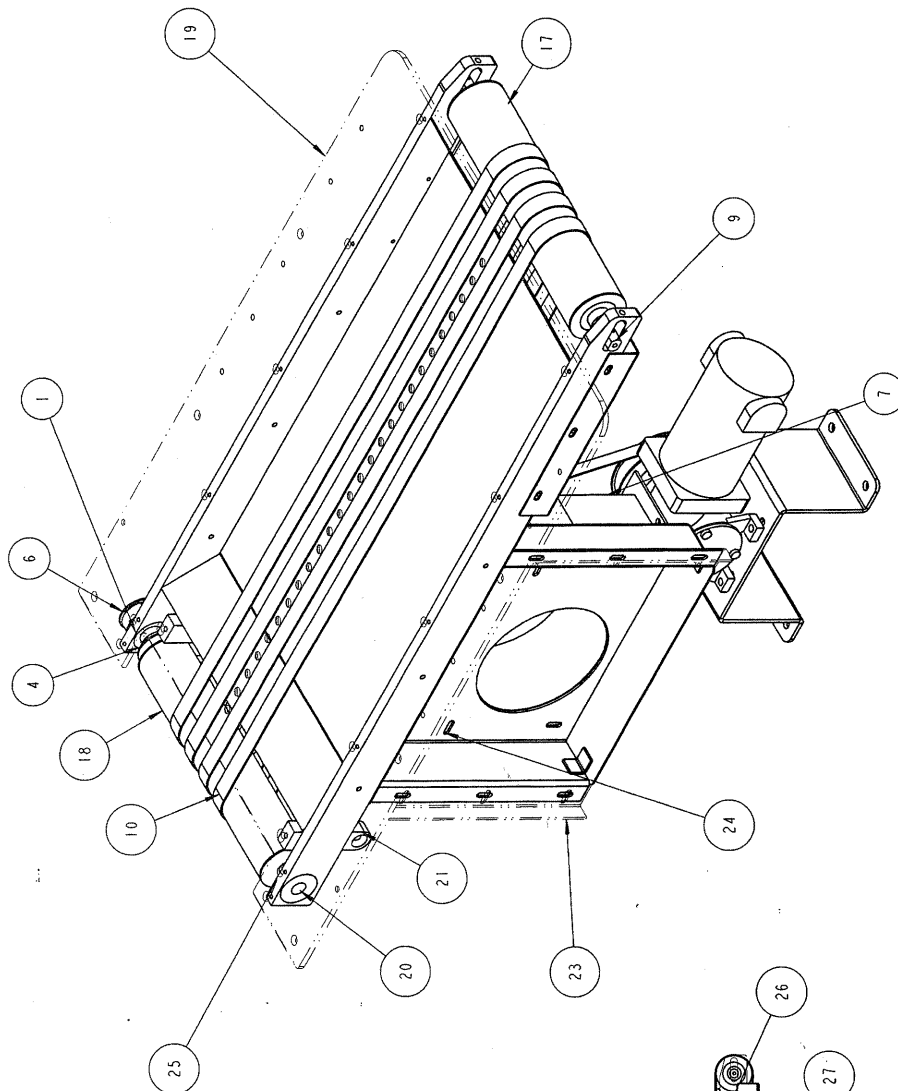
[illegible]

DRAWING 1

533195-04

REV	DATE	DESCRIPTION	ECH	BY
NO			NO	

ITEM	QTY	PART #	DESCRIPTION
1	2	103804	BEARING, HUB .625
2	8	105419	DOWEL, PIN .188X1.000
3	1	109319	PULLEY, TIMING 32L050 .625B .188K
4	1	109847	PULLEY, 28XL037 .625B NK
5	1	109848	PULLEY, 26XL037 .375B NK
6	1	109953	TIMING PULLEY, 12L050, NO HUB
7	1	200129	BLOWER, FAN
8	1	202492	ENCODER, DYNAPAR 1000PPR
9	1	500823	SHAFT, IDLER ROLLER
10	4	105901-19	BELT, GREEN 3/4 X 68.75
11	1	108988-1	BELT, TIMING 540L050
12	1	109006-1	BELT, TIMING 150XL037
13	1	200170-2	MOTOR, 1/8HP DC GEAR
14	2	500725-13	GUIDE, BELT 3/4
15	1	500725-17	GUIDE, BELT
16	1	500824-7	SHAFT-BELT GUIDE
17	1	500835-A	ASSY, TUBE ROLLER
18	1	530676-06	ASSY, DRIVE ROLLER
19	1	531033-07	TABLETOP, VACUUM CONVEYOR
20	1	531034-04	SHAFT, ROLLER DRIVE
21	2	532163-01	STAND, BELT GUIDE
22	1	532475-01	MOUNT, MOTOR
23	1	542188-01	PANEL, BLOWER BOX MOUNT
24	1	542189-01	WLDMT, BLOWER BOX W/DOOR
25	2	542194-01	FRAME, 319W
26	1	542195-01	TRAY, VACUUM
27	1	542196-01	COVER, BELTS OUTFEED
28	1	SP45241-10	PLATE, ENCODER MOUNT



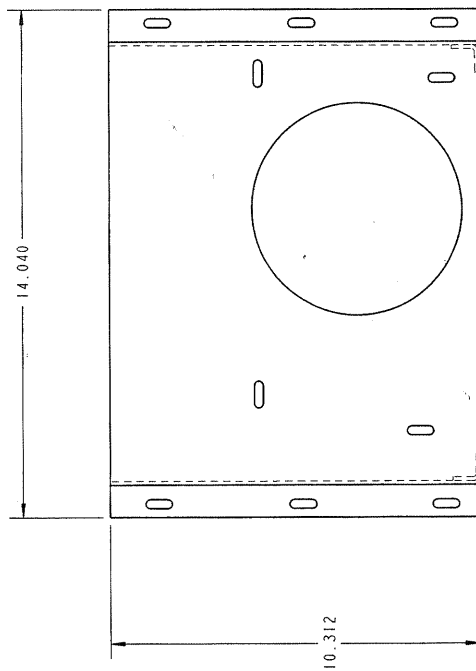
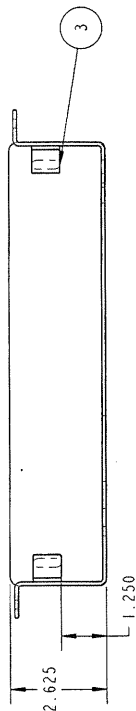
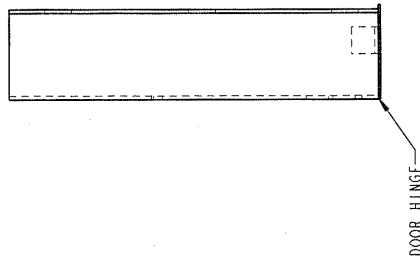
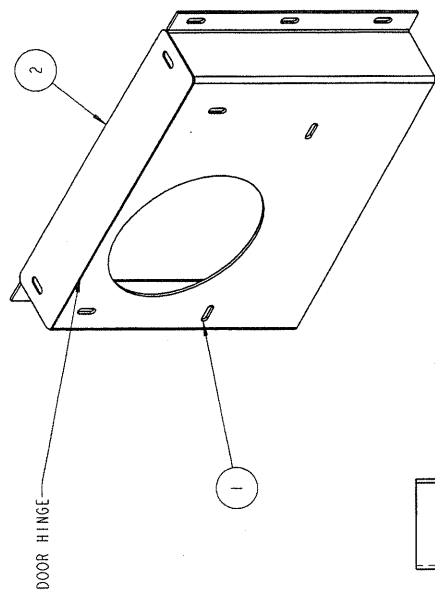
SCALE 0.125

DRAWN BY: TJG	SCALE 0.218	DATE 18-Dec-01	MATERIAL NOTED	FINISH NOTED	SHEET NO. 10F2	TITLE ASSY, 319 WINKJET CONVEYOR	KIRK - RUDY, INC. KENNESAW, GEORGIA	319W WHERE USED
CHECKED BY:			HEAT TREAT: NONE					
TRACED BY:								

533195-04

ITEM QTY	PART #	DESCRIPTION
1	542190-01	BRACKET, BLOWER MOUNT
2	542191-01	DOOR, BLOWER BOX
3	542192-01	BRACKET, L DOOR STOP

REV	NO	DATE	DESCRIPTION	ECN	NO	BY
-----	----	------	-------------	-----	----	----

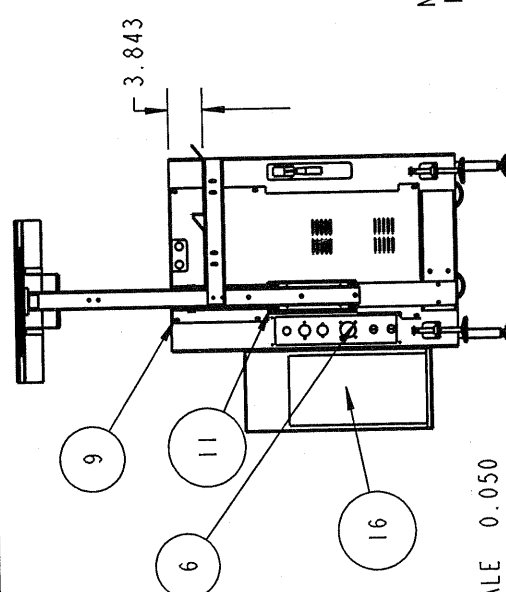
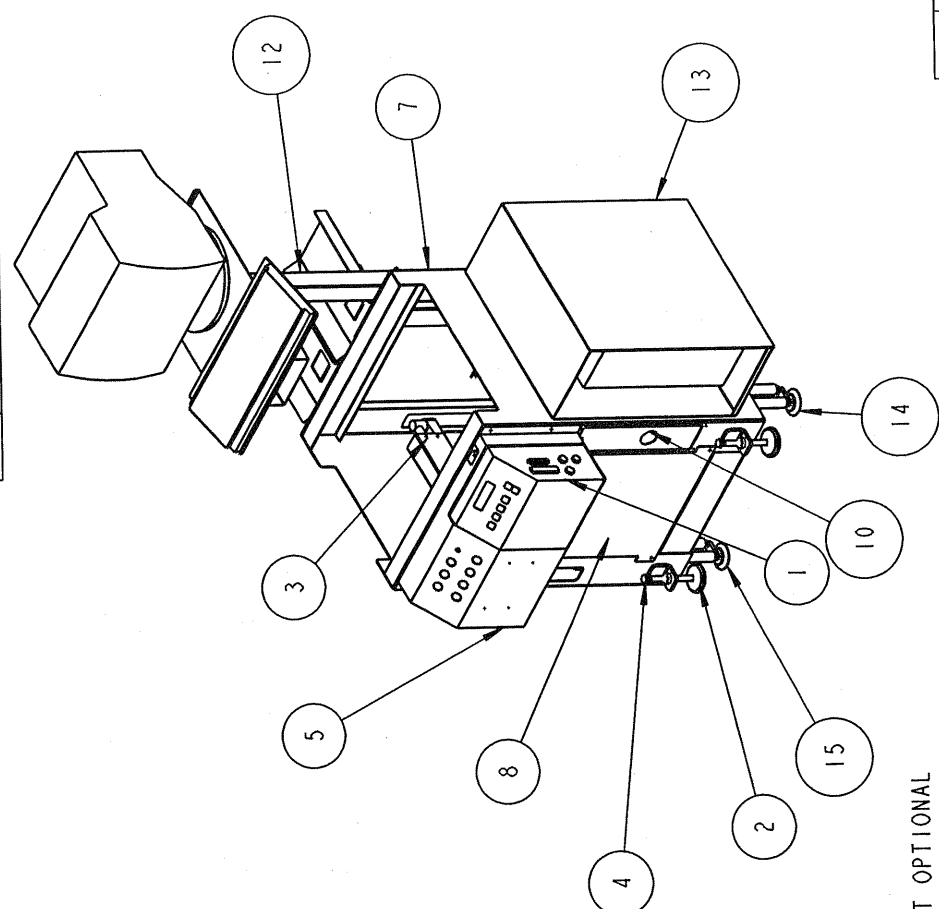


DRAWN BY:	TJG	SCALE:	0.312	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED:	MATERIAL:	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL	X	53195-04
CHECKED BY:		DATE:	18-Dec-01	ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED:	HEAT TREAT:	XXX	NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK RUDY, INC. KENNESAW, GA 30144 USA	REV'D	WHERE USED
TRACED BY:		MASTER:	M	ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED:	FINISH:	PAINT	TITLE:		
							WLDMT, BLOWER BOX W/DOOR		
							SP91900		
							TOFI		
							542189-01		

KIRK - RUDY, INC.
KENNESAW, GEORGIA

REV NO	DATE	DESCRIPTION	ECN NO	BY
1	5/17/2002	ADDED MONITOR STAND	6839	TJG
2	2/14/2003	ADDED HYDRALIFT	6946	TJG

ITEM QTY	PART #	DESCRIPTION
1	1001	WINKJET CONTROL MODULE
2	190634	FOOT, MOUNTING
3	191029-1	PUMP, MOVOTEC PB4612FC
4	501812-1	LEG, LEVELING
5	528247-10	BOX, CONTROL WINKJET 319
6	530441-01	BOX, ELECTRICAL INLET 20A
7	531023-05	WLDMT, 319B BASE CABINET
8	531028-11	PANEL, ELECTRICAL
9	531028-13	PNL, BACK R/H
10	531987-02	PNL, ELECT. OUTLET CVR.
11	532115-04	UP-RIGHT, CENTER
12	532152-13	ASSY, MONITOR STAND W/ 2 TRAY
13	538502-03	WLDMT, COMPUTER BOX
14	539424-01	ASSY, RH HYDRALIFT LEG
15	539425-01	ASSY, LH HYDRALIFT LEG
16	1	COMPUTER-CPU/COMPUTER, CPU TOWER



NOTES:
1. HYDRALIFT OPTIONAL

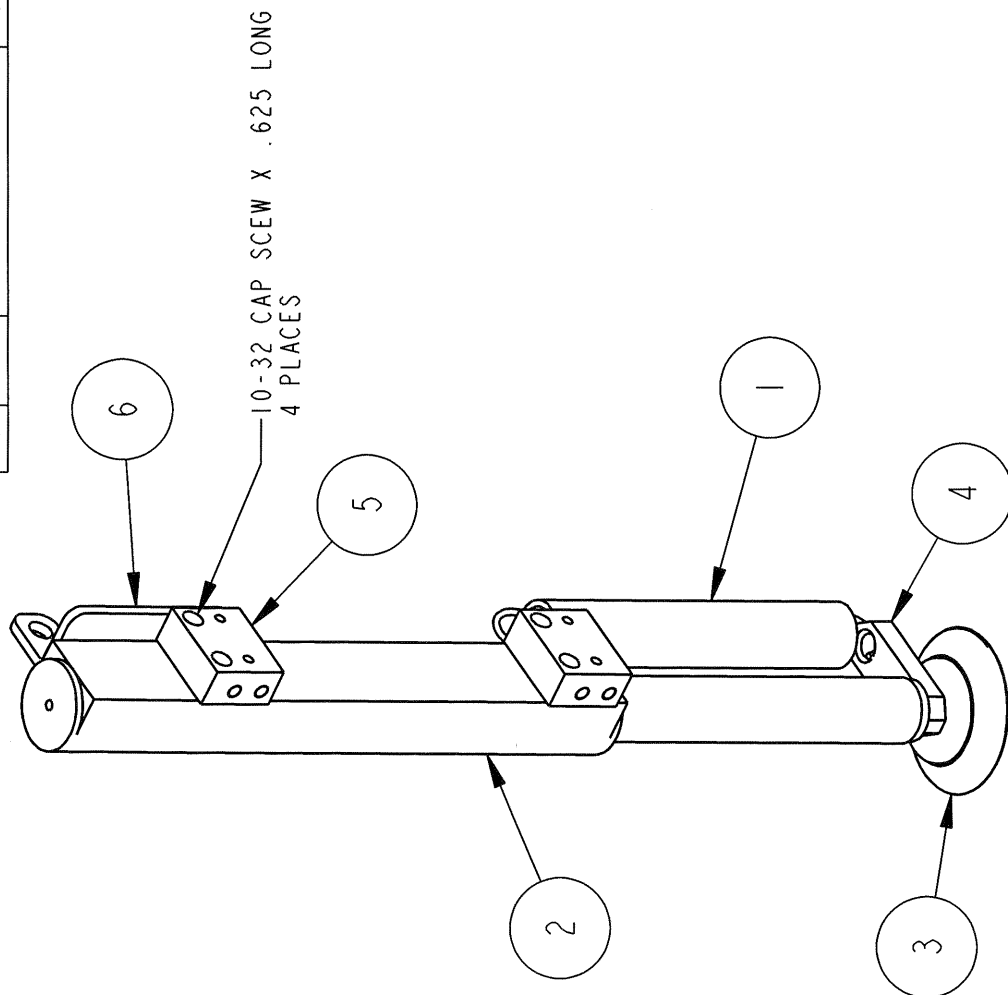
SCALE 0.050

1	319W	WHERE USED



DRAWN BY: TJG	SCALE 0.060	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL: N/A	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA
	DATE 19-Dec-01	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT: N/A	MODEL: SP91900	TITLE: ASSY, CABINET & COVERS	
	MASTER M	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	FINISH: N/A	SHEET NO: 10F1	DRAWING # 533196-04	

ITEM	QTY	PART #	DESCRIPTION
1	1	102792	SPRING, EXTENSION
2	1	191029-2	CYLINDER, LIFT CB415
3	1	191029-3	GLIDE, SUSPA
4	1	537371-01	BRACKET, SPRING RETURN MOUNT
5	2	537596-01	BLOCK, HYDRAULIC LIFT LH
6	1	537597-01	BRACKET HYDRAULIC LIFT SPRING

REV NO	DATE	DESCRIPTION	ECN NO	BY
-----------	------	-------------	-----------	----



2	SP84700
REQ'D	WHERE USED

DRAWN BY: A KEY	SCALE 0.375	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED				MATERIAL: N/A	THIRD ANGLE PROJECTION 	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	 KIRK - RUDY, INC. KENNESAW, GEORGIA	
		.XX	.XX	ANG.						
		.01	.005	.5						
CHECKED BY:	DATE 26 - Jul - 00	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED				HEAT TREAT: N/A	MODEL: SP84700	TITLE: ASSY, RH HYDRALIFT LEG		
TRACED BY:	MASTER	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY				FINISH: N/A	SHEET NO.: 1 OF 1	DRAWING #	539424-01	

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
1	1	102792	SPRING, EXTENSION					
2	1	191029-2	CYLINDER, LIFT CB415					
3	1	191029-3	GLIDE, SUSPA					
4	1	537371-01	BRACKET, SPRING RETURN MOUNT					
5	2	537596-01	BLOCK, HYDRAULIC LIFT LH					
6	1	537597-02	BRACKET, HYDRAULIC LIFT SPRING					
7	2	CSDD266	SCREW, SHCS 10-32X.625					

10-32 CAP SCREW X .625 LONG
4 PLACES

THIRD ANGLE PROJECTION	MODEL	TITLE	DRAWING #
	SP84700	ASSY, LH HYDRALIFT LEG	539425-01

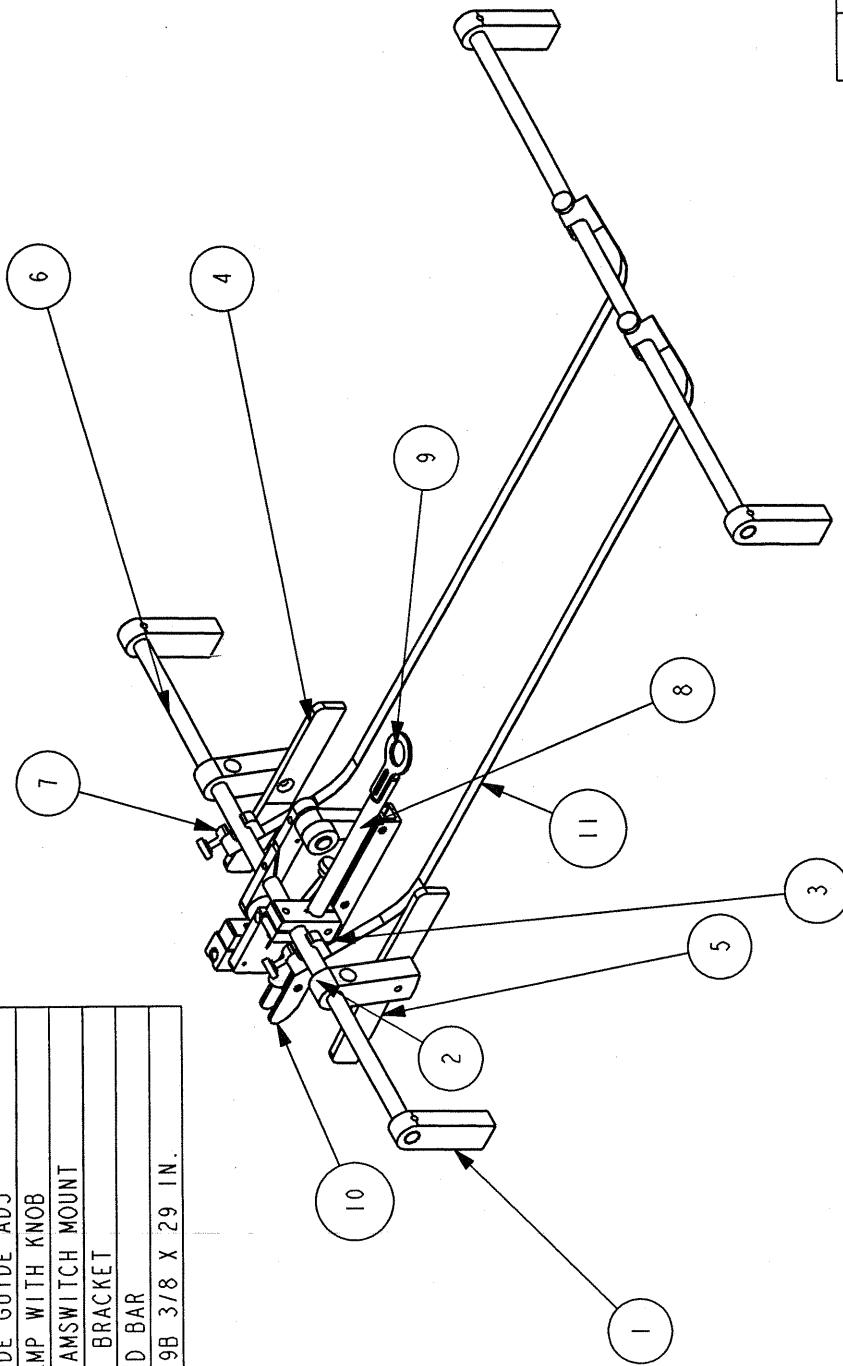
PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION KIRK - RUDY, INC. KENNESAW, GA 30144 USA	2	SP84700	REQ'D	WHERE USED

DRAWN BY:	SCALE	0.375	DATE	26-Jul-00
A KEY				
CHECKED BY:				
TRACED BY:				




DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL	HEAT TREAT	FINISH
.XX .XXX .5 REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	N/A	N/A	N/A

ITEM	QTY	PART #	DESCRIPTION
1	4	500791	POST, SIDEGUIDE
2	2	500792	POST, SIDE GUIDE
3	1	508593	CLAMP
4	1	500722-24L	RAIL, GUIDE LH
5	1	500722-24R	RAIL, GUIDE RH
6	2	500787-6	SHAFT, SIDE GUIDE ADJ
7	4	501629-A	ASSY, CLAMP WITH KNOB
8	1	508995-7	SHAFT, BEAMSWITCH MOUNT
9	1	508996-2	PHOTOCELL BRACKET
10	1	538021-01	ASSY, SKID BAR
11	2	542871-01	STRAP, 319B 3/8 X 29 IN.

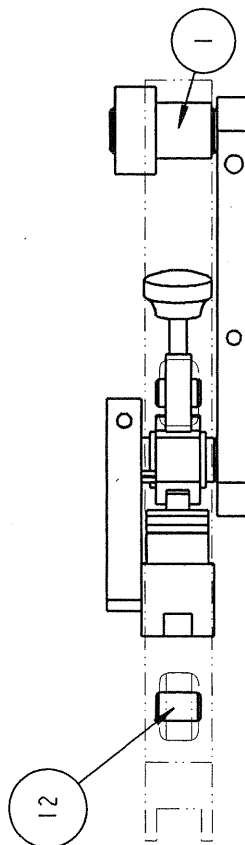
REV NO	DATE	DESCRIPTION	ECN NO	BY
1	1/2/2003	ADDED SPRING STEEL STRAPS	6917	TJG



1	SP91900-2
REC'D	WHERE USED

DRAWN BY: TJG	SCALE 0.188	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			MATERIAL: N/A	<div>THIRD ANGLE PROJECTION</div> <div></div>	<div>PROPRIETARY AND CONFIDENTIAL</div> <div>NO PORTION OF THIS DRAWING</div> <div>MAY BE QUOTED OR REPRODUCED</div> <div>IN ANY FORM WITHOUT THE</div> <div>EXPRESS WRITTEN PERMISSION</div> <div>OF KIRK - RUDY, INC.</div> <div>KENNESAW, GA 30144 USA</div>	<div></div> <div>KIRK - RUDY, INC.</div> <div>KENNESAW, GEORGIA</div>
		.XX	.XXX	ANG.				
		.01	.005	.5				
CHECKED BY:	DATE 23-Jan-02	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED			HEAT TREAT: N/A	MODEL: SP91900	TITLE: ASSY, SKIDBAR/SENSOR	
		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY						
TRACED BY:	MASTER 				FINISH: N/A	SHEET NO.: 10F1	DRAWING # 538188-04	

ITEM	QTY	PART #	DESCRIPTION
1	2	100162	BUSHING, SL. 500ID. 6250D. 625LG
2	1	102114	KNOB
3	1	102205	COLLAR .500
4	2	103107	BEARING, FLAT .312
5	1	105201	PIN, ROLL .125X 1.000
6	1	105602	SHAFT, THREADED 10-32
7	1	190101	MICROSWITCH, LEVER
8	1	190203	COVER, MICROSWITCH
9	1	500800	LINK-SKID-FRONT
10	1	500801	LINK-SKID-REAR
11	1	500802	HOLDER-SKID SWITCH
12	2	500834	SHAFT, SKID ROLLER
13	1	503794	CLAMP
14	1	190101A	ASSY-SWITCH WITH COVER
15	1	500723-8	CHANNEL, SKID
16	1	500800-A	ASSY, LINK
17	1	500801A	ASSY, LINK
18	1	500802A	ASSY, CLAMP
19	2	500834A	ASSY, STUD WITH BEARING
20	2	SP37359	SHAFT, SKID BAR SPACER



SCALE 0.500

REV NO	DATE	DESCRIPTION	ECN NO	BY
1				

1	KR2191J20
1	KR2191J
REQ'D	WHERE USED

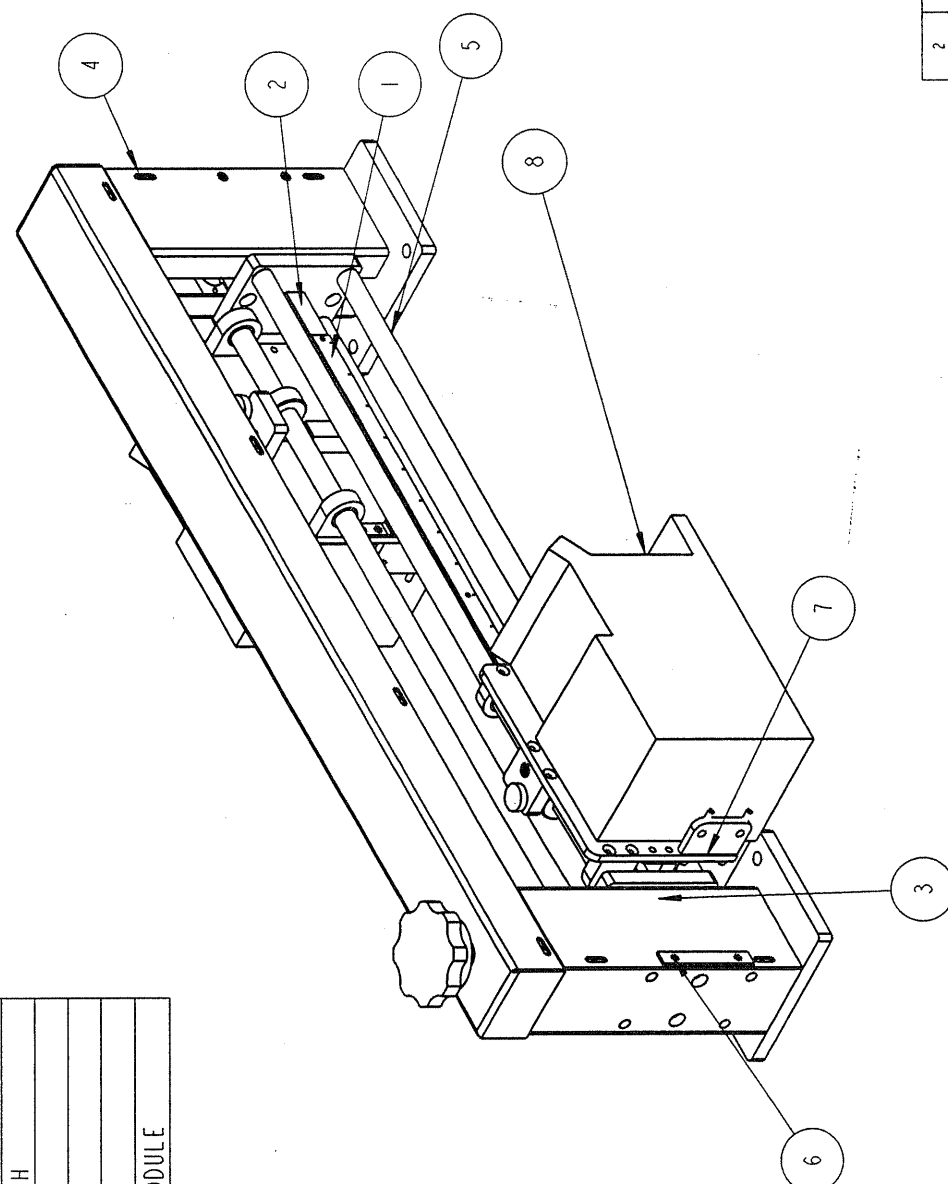
 KIRK - RUDY, INC. KENNESAW, GEORGIA	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA
	TITLE: ASSY, SKID BAR

THIRD ANGLE PROJECTION 	MODEL: 2191J
SHEET NO: 10F1	DRAWING # 538021-01

DRAWN BY: AYB	SCALE: 0.750	MATERIAL: N/A								
	DATE: 15-NOV-99	HEAT TREAT: N/A								
CHECKED BY: M	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED <table border="1"> <tr> <th></th> <th>XX</th> <th>XXX</th> <th>ANG.</th> </tr> <tr> <td></td> <td>.01</td> <td>.005</td> <td>.5</td> </tr> </table>		XX	XXX	ANG.		.01	.005	.5	FINISH: N/A
	XX	XXX	ANG.							
	.01	.005	.5							
TRACED BY:	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY									

U U U U U U U U

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
1	2	190771	SCALE, CENTER ZERO					
2	1	531678-02	BAR, SCALE SUPPORT					
3	1	538153-06	ASSY, VERTICAL ADJ. RH					
4	1	538153-07	ASSY, VERTICAL ADJ. LH					
5	4	538168-01	SHAFT, HEAD SUPPORT					
6	2	538178-01	STRAP, RIBBON CLAMP					
7	2	538269-01	ASSY, INKJET MOUNT					
8	2	BRYCE, INKJET	BRYCE, INKJET HEAD MODULE					



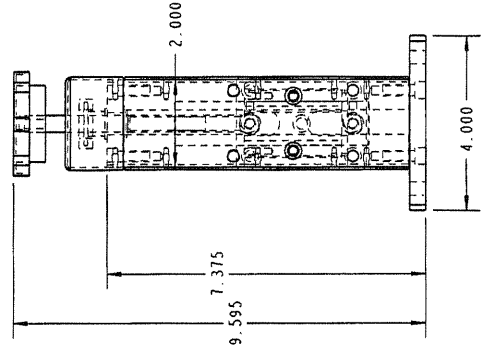
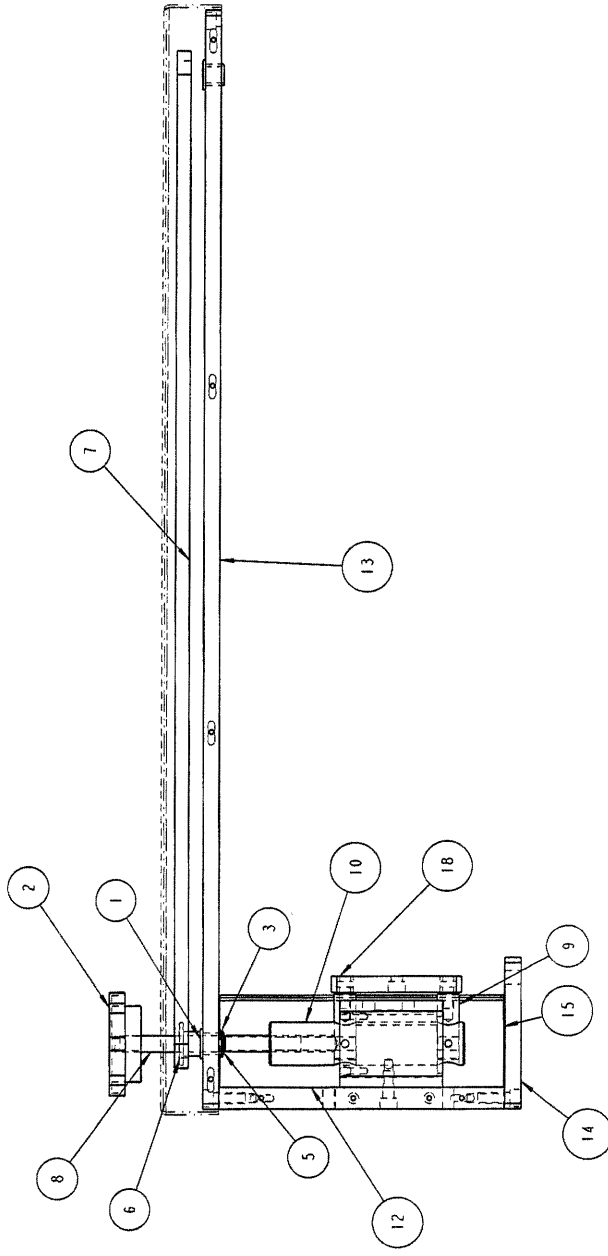
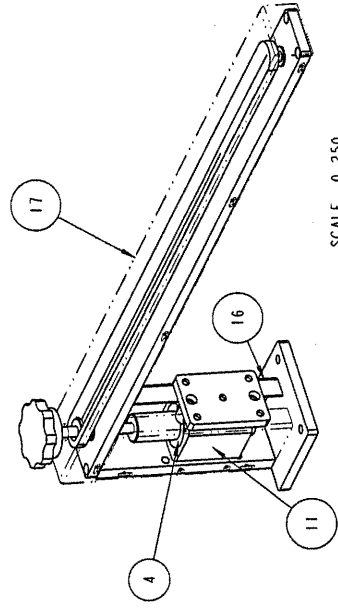
DRAWN BY:	TJG	SCALE	0.250	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL:	XXX	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA	2	538491-02	WHERE USED
CHECKED BY:		DATE	10-Jan-00	.XX .XX .XX ANG. .01 .005 .5	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT:	XXX	MODEL: SP81400	TITLE: ASSY, INKJET BRACKET 319				
TRACED BY:		MASTER	M	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY		FINISH:	XXX	SHEET NO: 10F3	DRAWING #				

538169-08

538153-06

ITEM	QTY	PART #	DESCRIPTION
1	2	100306	BUSHING, FL. 375ID. 5000D. 500LG
2	1	102112	KNOB, PURCHASED
3	1	102306	SHIM, .375X.625X.031
4	1	102906	BEARING, LINEAR SLEEVE OPEN
5	1	104100	SNAPRING, .375
6	1	110163	SPRKT, 25811.375B NK
7	1	110021-17	CHAIN, NO. 25 X 47.5 IN.
8	1	500341-2	SHAFT, LIFT
9	2	538146-01	SHAFT, BRACKET SUPPORT
10	1	538147-01	SHAFT, VERTICAL SUPPORT
11	1	538149-01	HOUSING, LINEAR BEARING
12	1	538150-01	PLATE, VERTICAL MOUNT
13	1	538151-01	PLATE, SCREW SUPPORT
14	1	538152-04	PLATE, BOTTOM SUPPORT 319
15	1	538154-01	COVER, LINEAR SLIDE RH
16	1	538154-02	COVER, LINEAR SLIDE LH
17	1	538155-01	COVER, CHAIN
18	1	538167-01	PLATE, SHAFT SUPPORT

REV	NO	DATE	DESCRIPTION	CEN	BY
-----	----	------	-------------	-----	----

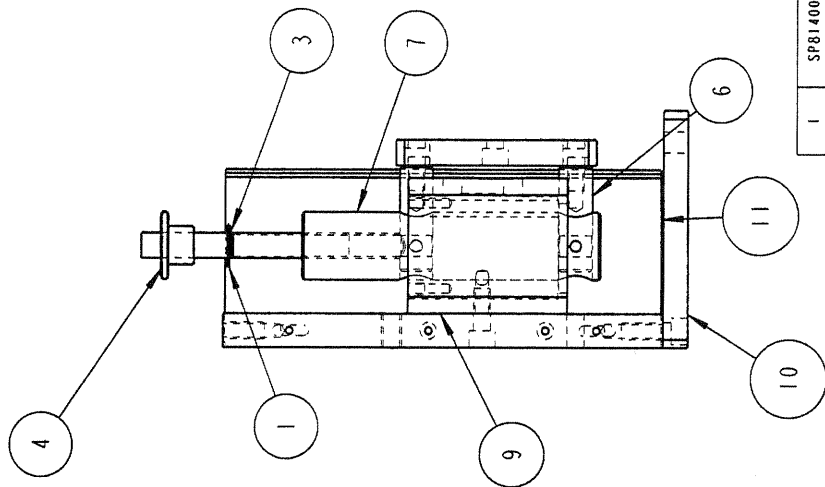
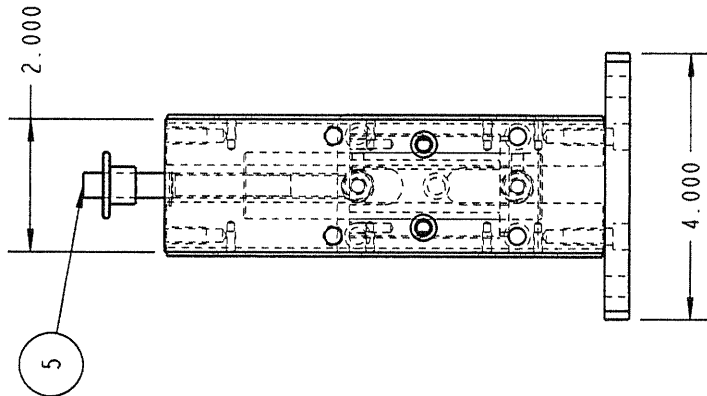
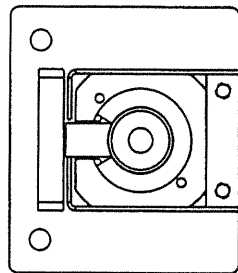
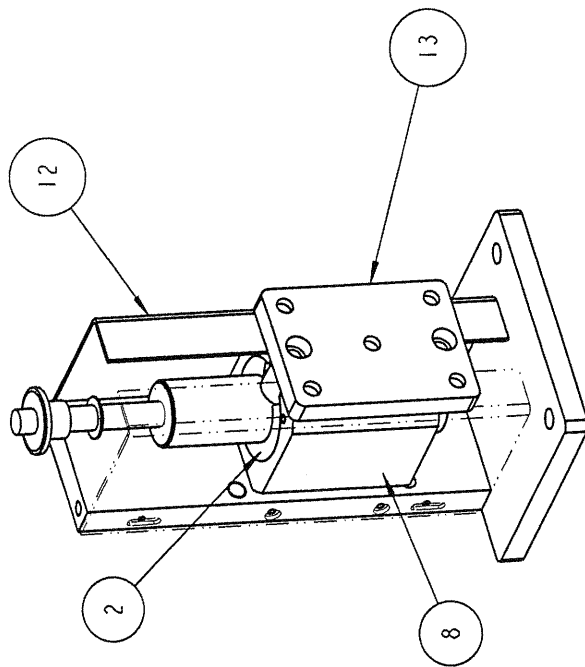


1	538153-01	REV'D	WHERE USED
KIRK - RUDY, INC. KENNESAW, GEORGIA			
PROPERTY AND CONSTRUCTION NO PORTION OF THIS DRAWING MAY BE LOANED OR REPRODUCED EXPRESS WRITTEN PERMISSION KENNESAW, GA 30144 USA		TITLE	
THIRD ANGLE PROJECTION		SP91900	
SHEET NO.		10F1	
SCALE		0.375	
DATE		17-Jul-01	
CHECKED BY:		M	
TRACED BY:			
MATERIAL		XXX	
FINISH		XXX	
FINISH		XXX	

538153-06

538153-07

ITEM	QTY	PART #	DESCRIPTION
1	1	102306	SHIM, .375X.625X.031
2	1	102906	BEARING, LINEAR SLEEVE OPEN
3	1	104100	SNAPRING, .375
4	1	110163	SPRKT, 25B11 .375B NK
5	1	500341-1	SHAFT, LIFT
6	2	538146-01	SHAFT, BRACKET SUPPORT
7	1	538147-01	SHAFT, VERTICAL SUPPORT
8	1	538149-01	HOUSING, LINEAR BEARING
9	1	538150-01	PLATE, VERTICAL MOUNT
10	1	538152-04	PLATE, BOTTOM SUPPORT 319
11	1	538154-01	COVER, LINEAR SLIDE RH
12	1	538154-02	COVER, LINEAR SLIDE LH
13	1	538167-01	PLATE, SHAFT SUPPORT



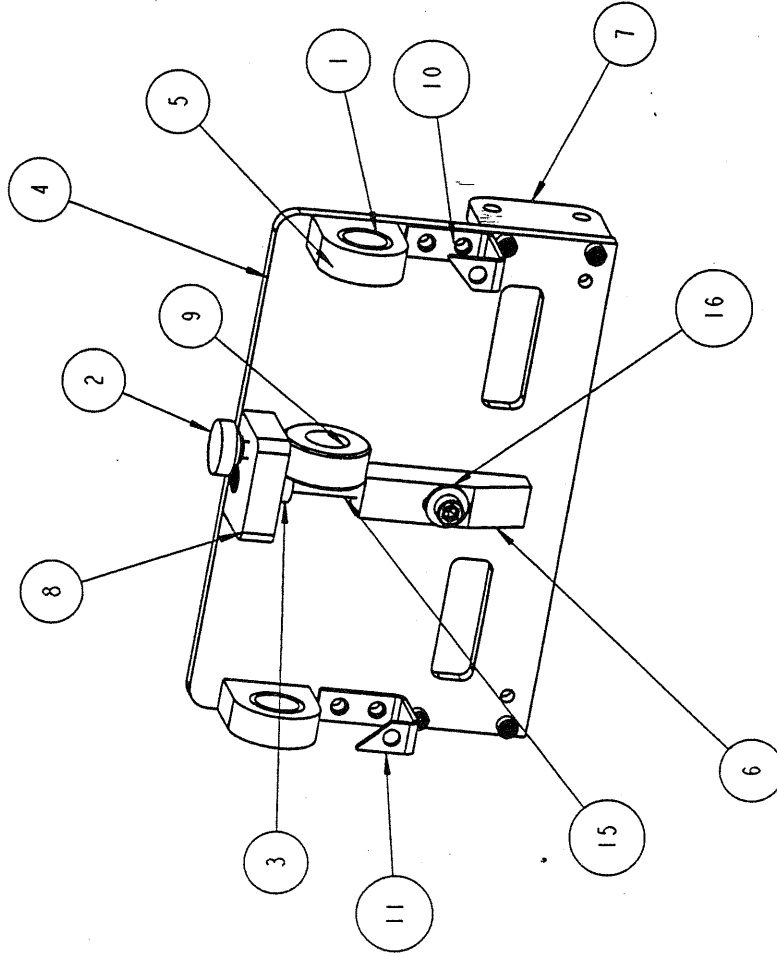
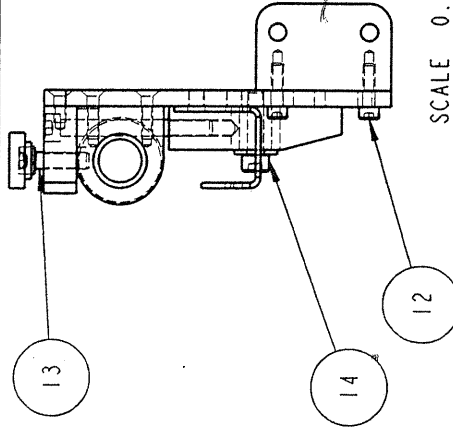
REV	NO	DATE	DESCRIPTION	ECN	NO	BY
1	SP81400					

SCALE 0.375

DRAWN BY: TJG	SCALE 0.375	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED .XX .XXI .XXII ANG. .01 .005 .5	MATERIAL: XXX	THIRD ANGLE PROJECTION 	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA
CHECKED BY:	DATE 17-Jul-01	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT: XXX	MODEL: SP81400	TITLE: ASSY, VERTICAL ADJ. LH	
TRACED BY:	MASTER 	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	FINISH: XXX	SHEET NO: 1 OF 1	DRAWING # 538153-07	

538269-01

ITEM QTY	PART #	DESCRIPTION
1	2	100133 BUSHING, SL. 500ID. 625OD. 375LG
2	1	102132 KNOB, 10-32 CAP SCREW
3	1	102210 COLLAR .188
4	1	538270-01 PLATE, VERTICAL INKJET MNT.
5	2	538271-01 BLOCK, BUSHING MOUNT
6	1	538273-01 CAM, INKJET LEVEL
7	2	538277-01 PLATE, INKJET HEAD MOUNT
8	1	538280-01 BLOCK, SLIDE LOCK
9	1	538300-01 COLLAR, SLED LOCK
10	1	538305-01 INDICATOR, SCALE RH
11	1	538305-02 INDICATOR, SCALE LH
12	4	CSD210
13	1	CSD266
14	1	CSD267
15	1	CSD272
16	1	WA006 WASHER



DRWN BY: TJG	SCALE: 0.500	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL: XXX	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	REV NO: 2	DATE: 538169-01
CHECKED BY:	DATE: 18-Feb-00	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT: XXX	MODEL: SP81400	TITLE: ASSY, INKJET MOUNT	REC'D: WHERE USED	
TRACED BY:	MASTER: M	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	FINISH: XXX	SHEET NO: 10F2	DRAWING: 538269-01		

6 APPENDIX

[illegible]

8 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
2700 DUE WEST DRIVE
KENNESAW, GA. 30144
PH 770-427-4203
FX 770-427-4036