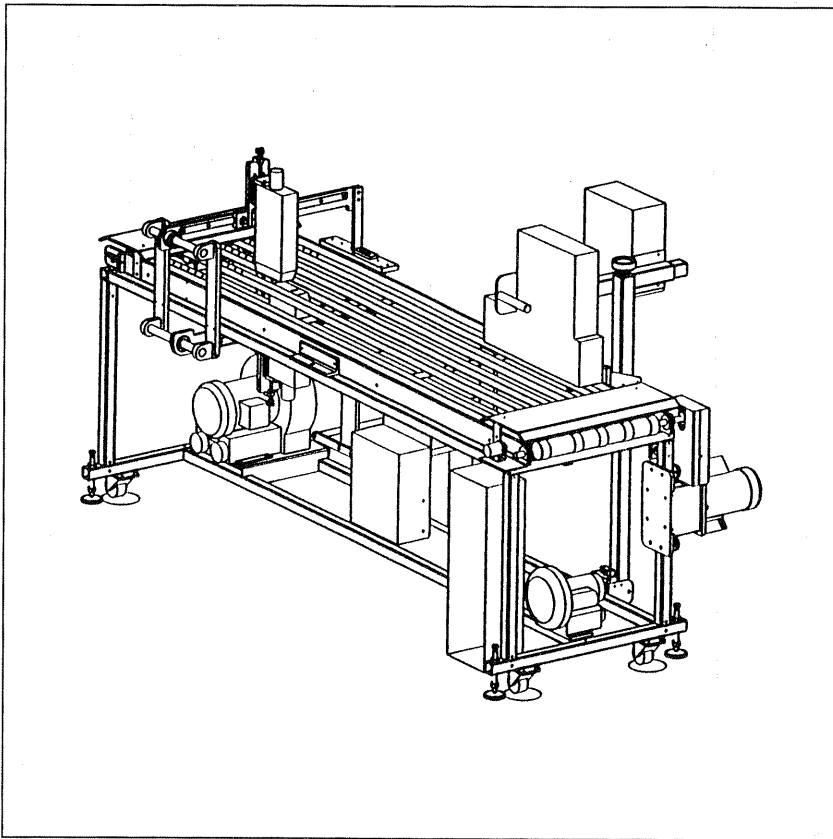


Kirk-Rudy, Inc.

Instruction and Parts Manual KR219D Inkjet Conveyor



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.

10000-219D REV. 1 9/29/99

Manual

1 Important Safety Instructions

Intended Use Statement:

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

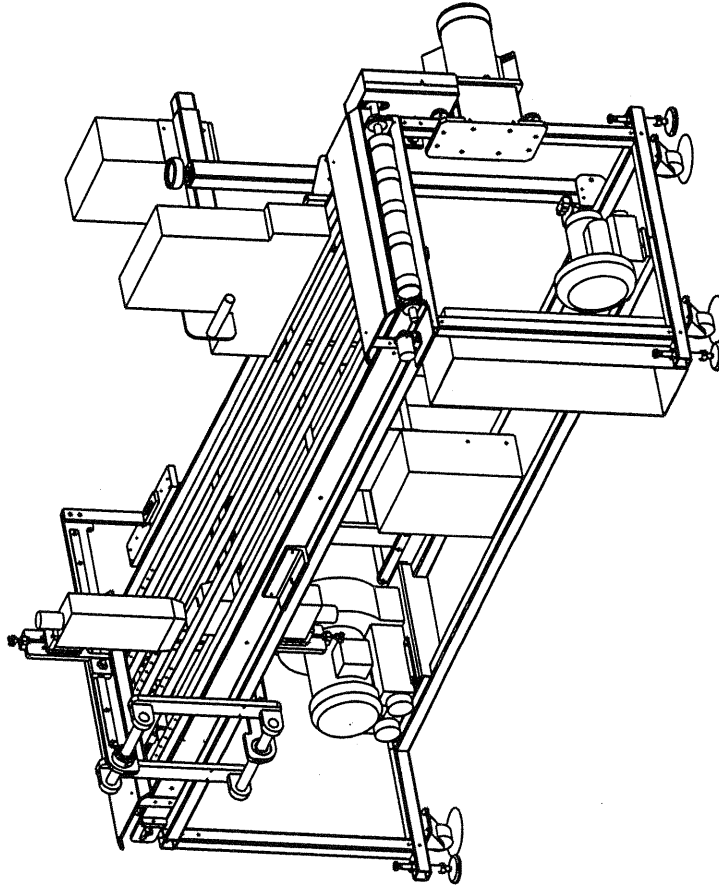


WARNING



- * 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.
- * SURFACES IN CONTACT WITH HEAT FROM DRYER WILL BE HOT.
- * 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.

SP76400

REV NO	DATE	DESCRIPTION	ECN NO	BY
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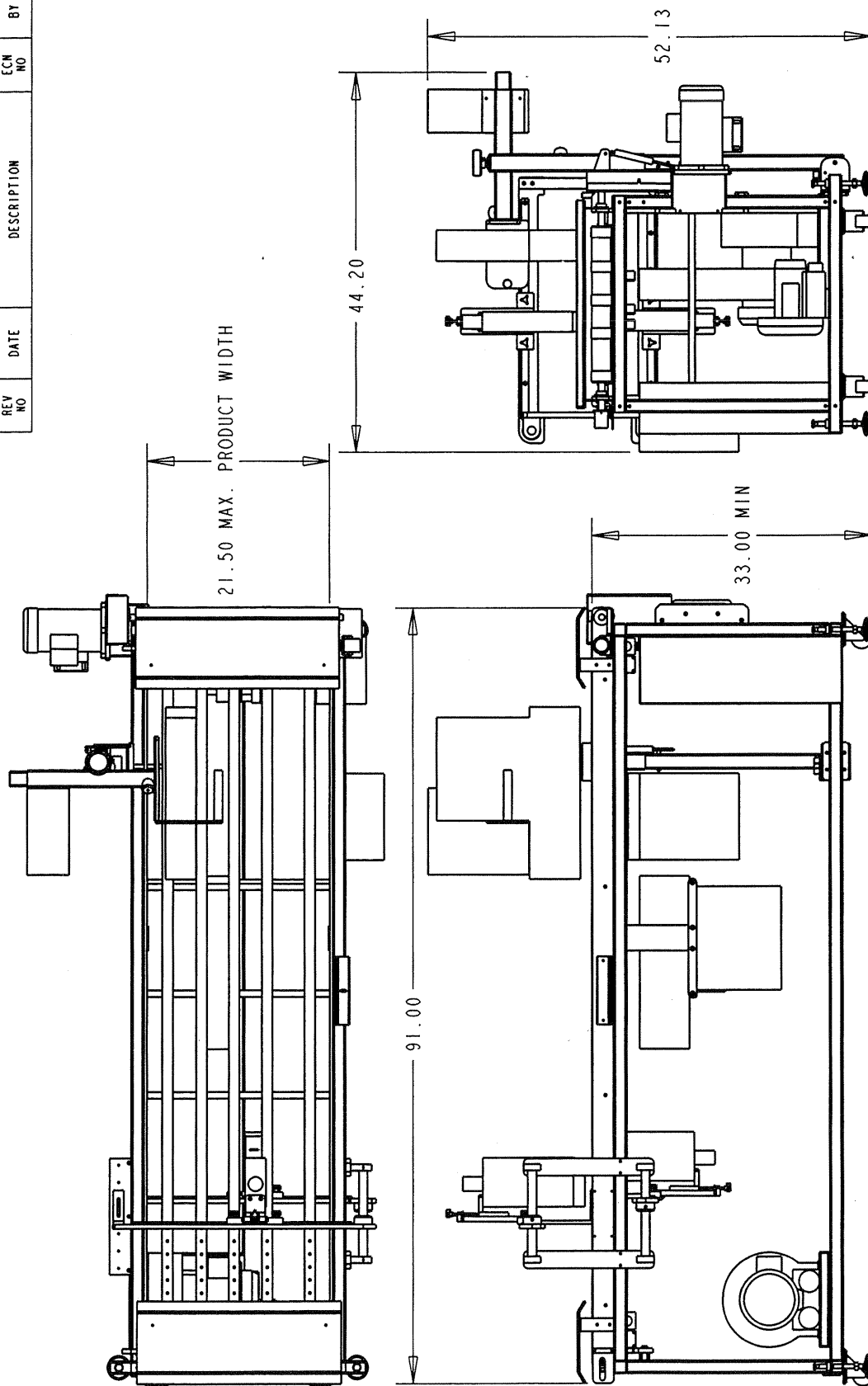


I	219D
REV'D	WHERE USED

DRAWN BY: RHM	SCALE 0.060	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL: NOTED	THIRD ANGLE PROJECTION 	PROPRIETARY AND CONFIDENTIAL NO PART 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	I 219D	WHERE USED																			
	CHECKED BY: DATE 29-Sep-99								TRACED BY: MASTER M	HEAT TREAT: NONE		MODEL: 219D		TITLE: ASSY, 219D INKJET CONVEYOR		SHEET NO.: 20F2		SP76400	FINISH: NONE		REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY		DRAWING #		
	TRACED BY: MASTER M																										
HEAT TREAT: NONE		MODEL: 219D		TITLE: ASSY, 219D INKJET CONVEYOR		SHEET NO.: 20F2		SP76400																			
FINISH: NONE		REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY		DRAWING #																					

SP76400

REV NO	DATE	DESCRIPTION	ECN NO	BY
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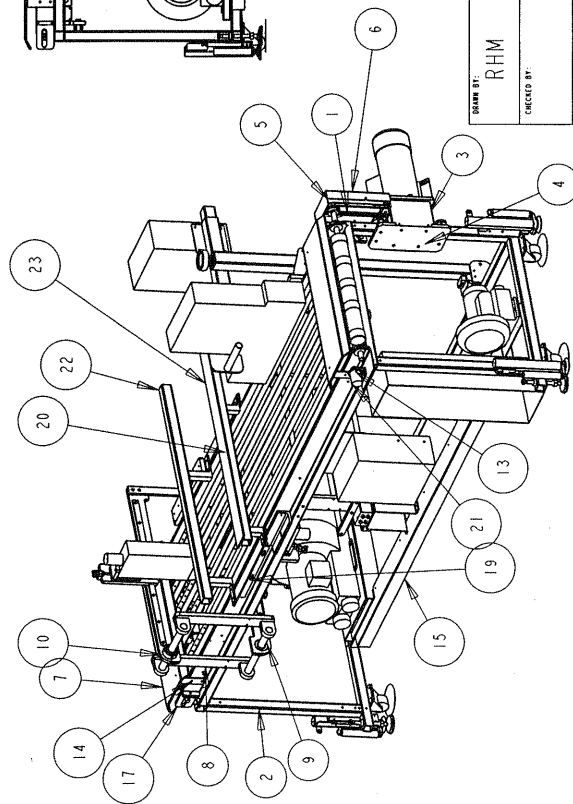
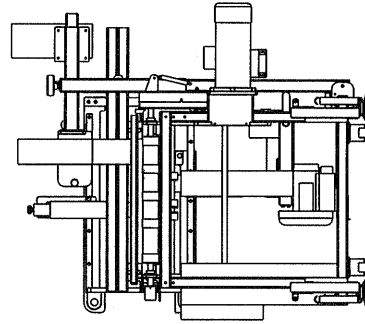
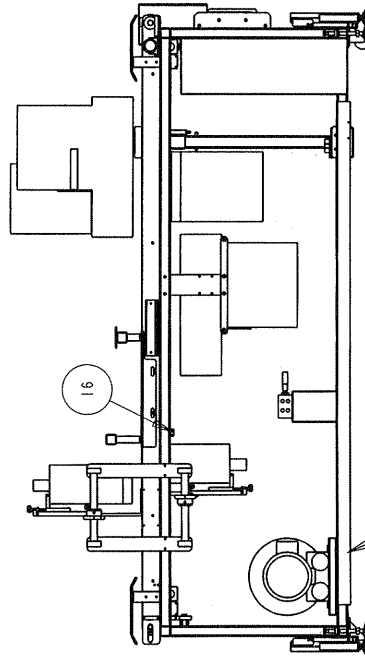
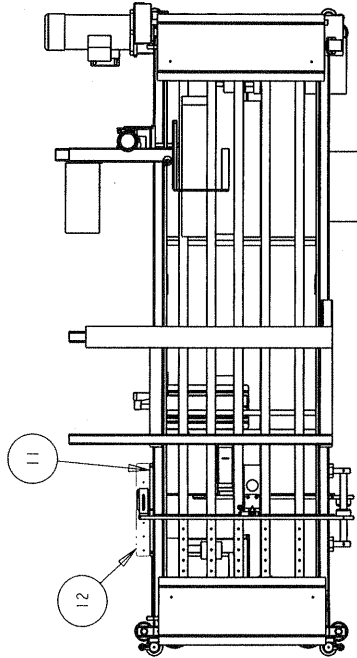
DRAWN BY: RHM	SCALE 0.060	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL: NOTED	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA
CHECKED BY:	DATE 29-Sep-99	.XX .XXI .XXII .XXIII .XXIV .XXV .XXVI .XXVII .XXVIII .XXIX .XXX .01 .005 .5	HEAT TREAT: NONE	MODEL 219D	TITLE: ASSY, 219D INKJET CONVEYOR	
TRACED BY:	MASTER 	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	FINISH: NONE	SHEET NO. 30F3	DRAWING 1	SP76400

DRAWING 1

SP76400

REV	NO	DATE	DESCRIPTION	ECN	BY
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ITEM QTY	PART #	DESCRIPTION
1	106034	V-BELT, AX-28
2	534816-02	ASSY, TUBE FRAME
3	534847-01	COVER-MOTOR
4	534848-01	COVER-MOTOR
5	534878-01	COVER-BELT
6	534879-01	COVER-BELT
7	534881-01	COVER, LEXAN, INFEED
8	535254-01	POST, BRACKET SUPPORT
9	535256-01	ASSY, SCITEX HEAD MOUNT BOTTOM
10	535258-01	ASSY, SCITEX HEAD MOUNT TOP
11	535260-01	PLATE, RELEASE MOUNT
12	535261-01	POST, LOWER BRACKET SUPPORT
13	535716-01	COVER, TACH MOUNT
14	535752-01	BRKT, COVER MOUNT
15	535753-01	COVER, ELECTRICAL CHANNEL
16	536228-01	BAR, ENCODER SUPPORT
17	536234-01	ASSY, 219D BELT DRIVE
18	536879-01	CHANNEL, ELECTRICAL
19	543476-01	BRACKET, SCITEX 6240 MOUNT
20	543476-02	BRACKET, SCITEX 6240 MOUNT
21	RES-TACH-ASSY	RESEARCH TACHOMETER
22	SCITEX-INKJERAMBT-SCITEX INKJET MNT	
23	SCITEX-INKJERAMBT-SCITEX BALL TRANSFER	



NOTE:
1. SHOWN WITH RESEARCH 4560-16HV DRYER.

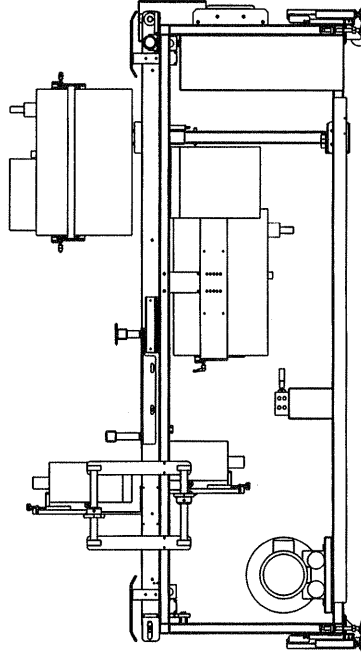
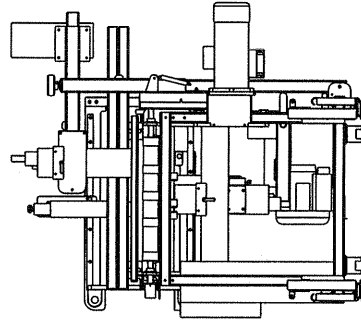
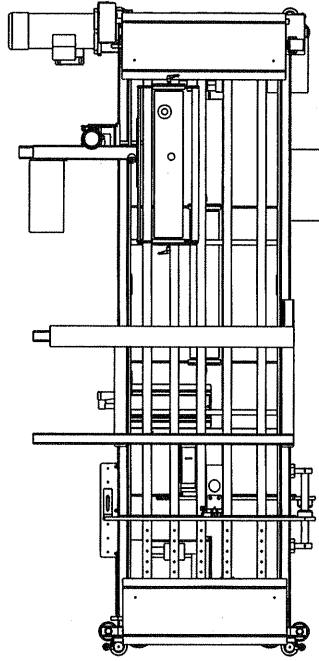
SCALE	0.060	DATE	29-SEP-99	CHECKED BY:	RHM	TRACED BY:	M
THIRD ANGLE PROJECTION	NOTED	MATERIAL	NONE	HEAT TREAT:	NONE	FINISH	NONE
MODEL:	219D	TITLE:	ASSY, 219D INKJET CONVEYOR	SHEET NO.:	10F6	DATE:	SP76400

REV'D	WHERE USED
1	219D

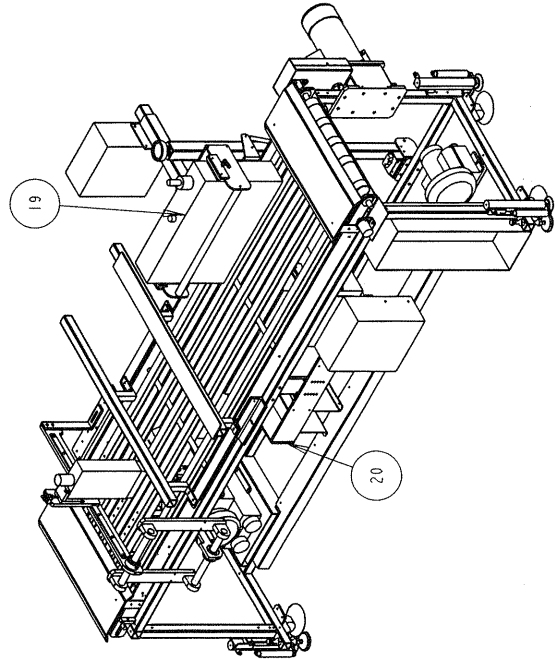
PRODUCTION	PRODUCTION
KIRK - RUDY, INC.	WOODSTOCK, GEORGIA
WOODSTOCK, GA 30188 USA	

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM	QTY	PART #	DESCRIPTION
1	1	106034	V-BELT, AX-28
2	1	534816-02	ASSY, TUBE FRAME
3	1	534847-01	COVER-MOTOR
4	1	534848-01	COVER-MOTOR
5	1	534878-01	COVER-BELT
6	1	534879-01	COVER-BELT
7	2	534881-01	COVER, LEXAN, INFED
8	2	535254-01	POST, BRACKET SUPPORT
9	1	535256-01	ASSY, SCITEX HEAD MOUNT BOTTOM
10	1	535258-01	ASSY, SCITEX HEAD MOUNT TOP
11	1	535260-01	PLATE, RELEASE MOUNT
12	1	535261-01	POST, LOWER BRACKET SUPPORT
13	1	535716-01	COVER, TACH MOUNT
14	2	535752-01	BRKT, COVER MOUNT
15	1	535753-01	COVER, ELECTRICAL CHANNEL
16	1	536228-01	BAR, ENCODER SUPPORT
17	1	536234-01	ASSY, 219D BELT DRIVE
18	1	536879-01	CHANNEL, ELECTRICAL
19	1	538721-06	ASSY, RESEARCH DRYER SUPPORT
20	1	538721-07	ASSY, 219D DRYER SUPPORT
21	1	543476-01	BRACKET, SCITEX 6240 MOUNT
22	1	543476-02	BRACKET, SCITEX 6240 MOUNT
23	1	RES_TACH_ASSY	RESEARCH TACHOMETER
24	1	SCITEX-INKJETAMT	SCITEX INKJET MNT.
25	1	SCITEX-INKJETAMT	SCITEX INKJET TRANSFER



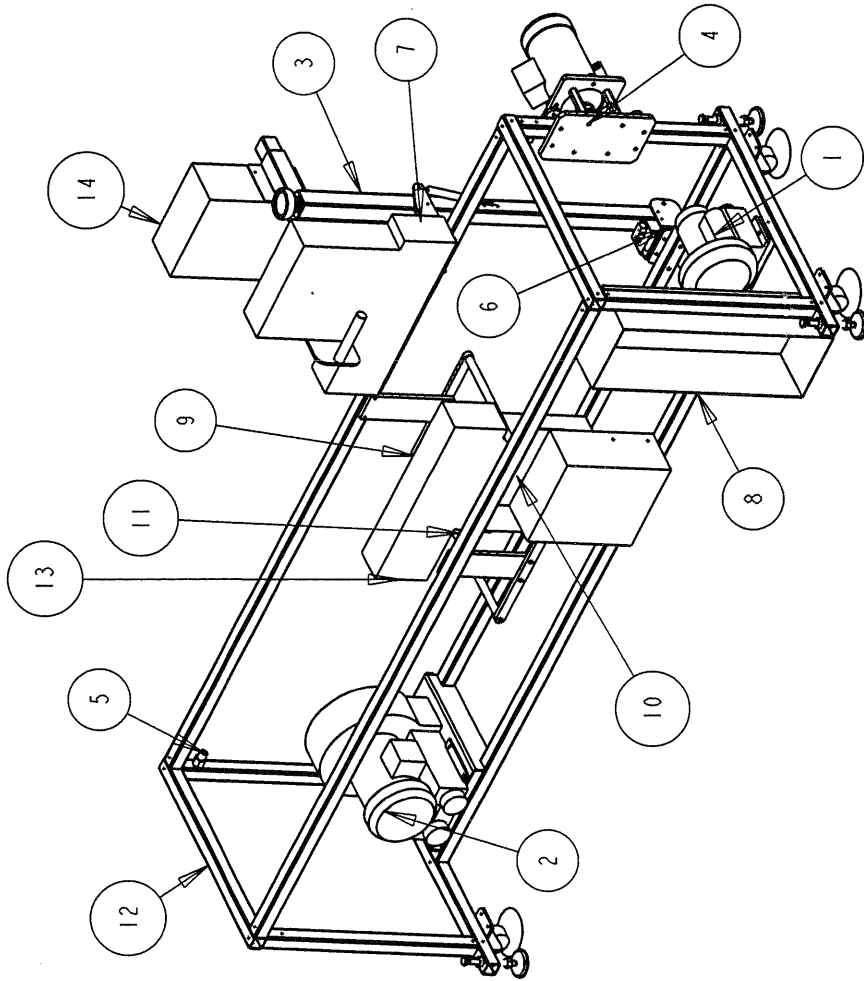
NOTES:
1. SHOWN WITH RESEARCH 5061 DRYER.





DRAWN BY:	RHM	SCALE:	0.060	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			MATERIAL:	NOTED	THIS DRAWING PRODUCTION AND CONFIDENTIAL NOT FOR SALE OR REPRODUCTION WITHOUT WRITTEN PERMISSION MAY BE QUOTED OR REPRODUCED EXPRESS WRITTEN PERMISSION WOODSTOCK, GA 30188 USA			KIRK - RUDY, INC. WOODSTOCK, GEORGIA	1	219D
CHECKED BY:		DATE:	12-Nov-04	DATE:	NOV 5 2004	TIME:	3:31 PM	REV:						
TRACED BY:		MASTER:	M	ALL DIMENSIONS ARE FINISHED UNLESS OTHERWISE NOTED			FINISHES TO WORK TO DIMENSIONS ONLY	THICKNESS:	NONE	MODEL:	219D	ASSY, 219D INKJET CONVEYOR		
										SHEET NO.	60F6	DRAWING #	SP764600	

ITEM	QTY	PART #	DESCRIPTION
1	1	200120	BLOWER, GAST
2	1	200127	REGENERATIVE BLOWER R4310A-2
3	1	533708-01	ASSY, 215 DRYER MT
4	1	534827-01	ASSY-MOTOR MOUNT
5	2	534844-01	STUD-PIVOT
6	1	534873-01	PLATE-DRYER MT,BOTTOM
7	1	534874-01	PLATE-DRYER MT,TOP
8	1	535103-01	BOX, ELECTRICAL
9	1	535104-01	ASSY, DRYER MOUNT
10	1	535109-01	BRACKET, DRYER CONTROL BOX
11	1	535110-01	BRACKET, DRYER LOCK
12	1	536233-01	WLDMT, MAIN TUBE FRAME
13	1	RES4560-16HV	DRYER, RESEARCH 4560-16HV
14	1	RES4560C	DRYER, CONTROL BOX 4560

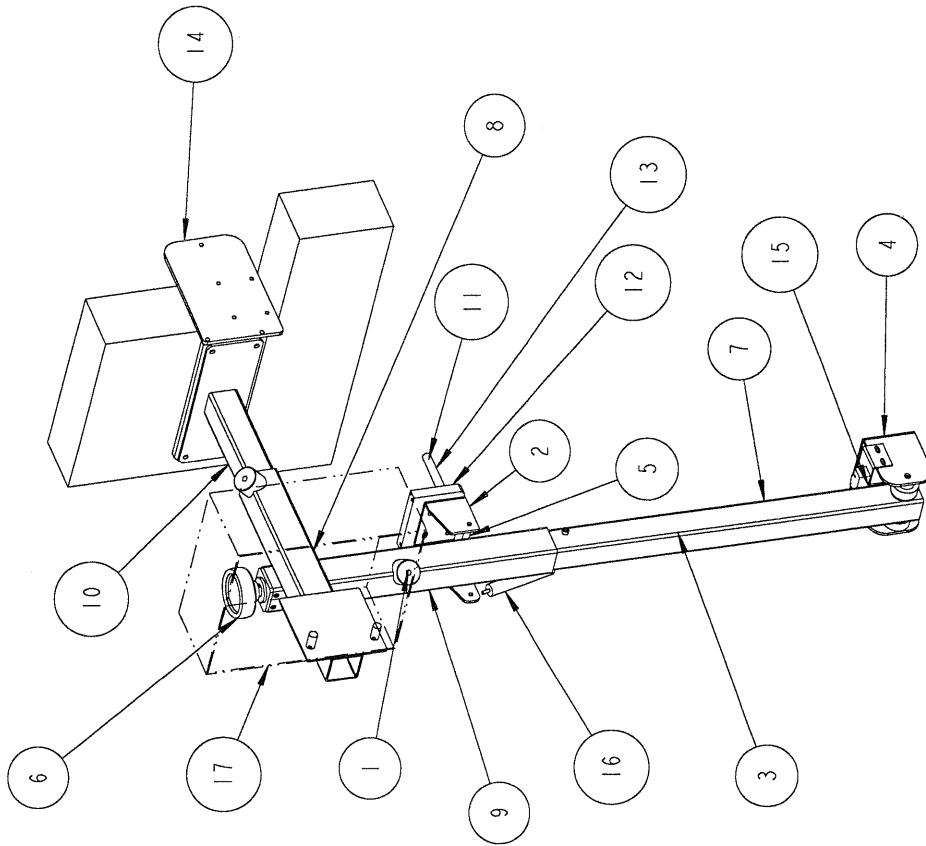
REV NO	DATE	DESCRIPTION	ECN NO	BY
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1	2190
REQ'D	WHERE USED

DRAWN BY: RHM	SCALE 0.060	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			MATERIAL: NOTED			PROPRIETARY AND CONFIDENTIAL NO PART OF THIS DRAWING IS TO 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 29-Sep-99	.XX .01	.XXX .005	ANG. .5	HEAT TREAT: NONE					
TRACED BY:	MASTER M	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED			FINISH: NONE		MODEL: SP69500		TITLE: ASSY, TUBE FRAME	
ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY			SHEET NO.: 1 OF 1		DRAWING # 534816-02					

ITEM	QTY	PART #	DESCRIPTION
1	1	532129-01	BLOCK, LOCK DOWN
2	1	532452-01	BRACKET, GAS SHOCK
3	1	532453-01	GAS SHOCK LINKAGE
4	1	532466-01	ASSY, DRYER ARM PIVOT
5	1	532468-01	SHAFT, DRYER STOP
6	1	532736-01	ASSY, SCREW HOUSING
7	1	532738-01	WELD, TUBING DRYER STAND
8	1	532739-02	WELD, TUBING SLIDE
9	1	532741-01	TUBING, BASE
10	1	532744-02	WELD, TUBING IN/OUT ADJ.
11	1	533190-01	ASSY, STOPPER MOUNT BRACKET
12	1	533191-01	PLATE, STOPPER MOUNT
13	1	533192-01	SHAFT, SPACER
14	1	533711-01	ASSY, DRYER T-BRACKETS
15	1	533714-01	ASSY, SWITCH
16	1	GASSHOCK	GAS SPRING GAS-152
17	1	RES4560C	DRYER, CONTROL BOX 4560



NOTE:
1. SHOWN WITH RESEARCH DRYER 4560-16HV

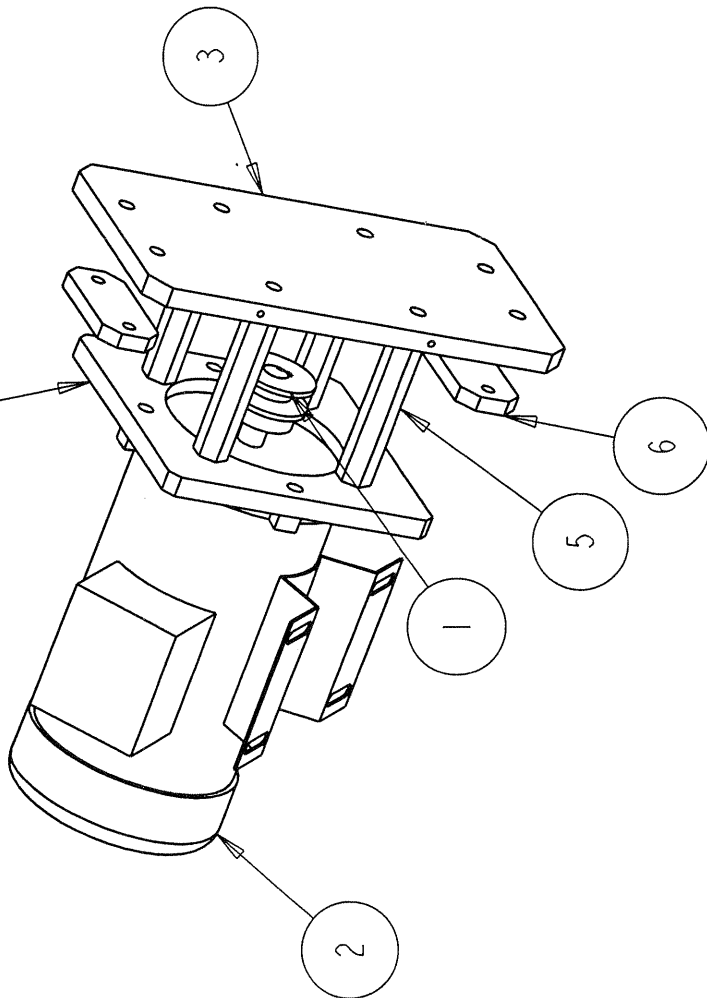
REV NO	DATE	DESCRIPTION	ECN NO	BY
1	11-SEP-98	MOVED DRYER CONTROL BOX	6373	MY

1	2191J
REQ'D	WHERE USED

DRAWN BY: TJG	SCALE 0.100	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	MATERIAL:	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. KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA
	DATE 4-May-98		HEAT TREAT:	MODEL: DRYER		
CHECKED BY:	MASTER M	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	FINISH:	SHEET NO: 10F2	TITLE: ASSY, DRYER MOUNT	
TRACED BY:		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY			DRAWING # 533708-01	

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
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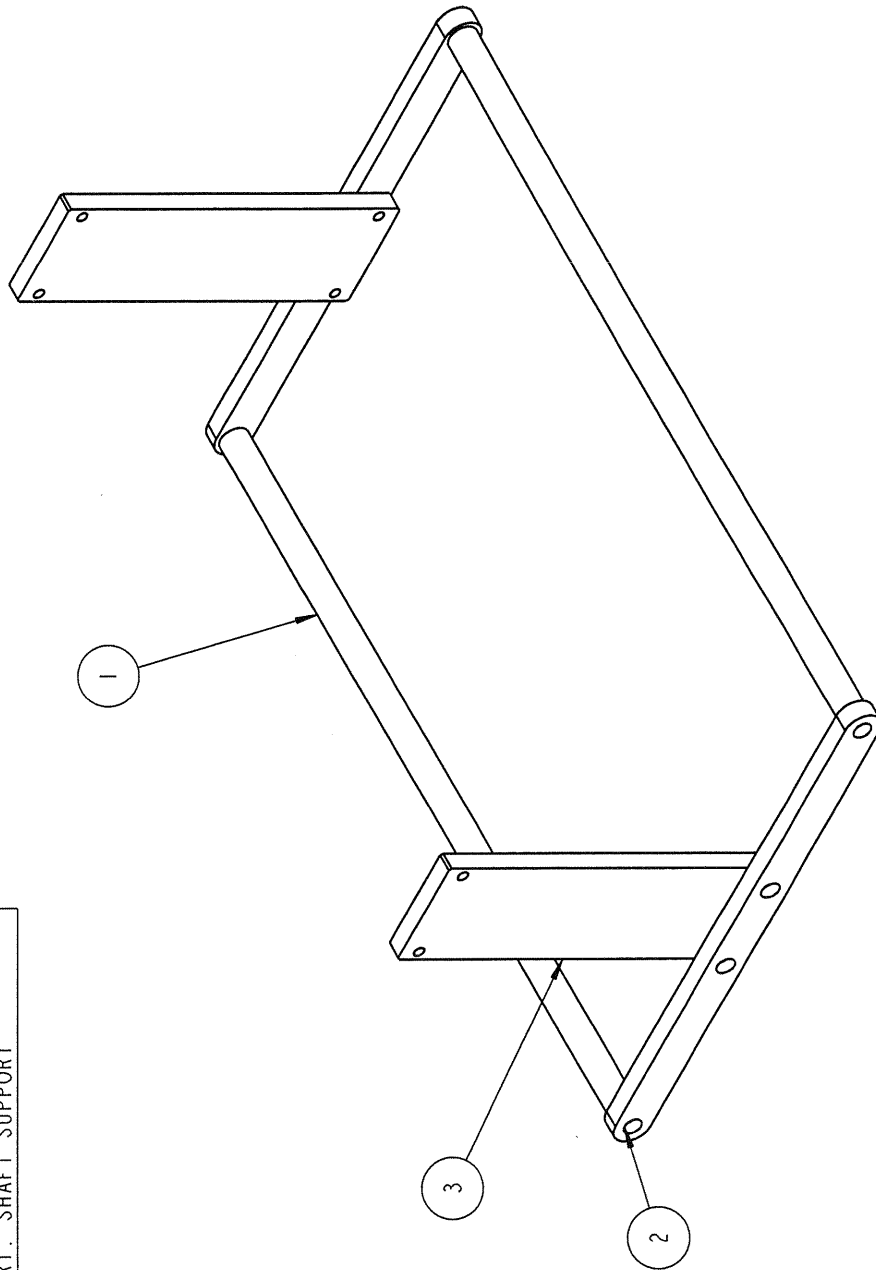
1	1	105026	V-PULLEY, MAVR. 2200					
2	1	200152-2	MOTOR, LEESON DC 1/2HP					
3	1	534822-01	PLATE-MOTOR MOUNT					
4	1	534826-01	PLATE-MOTOR, 1/2 HP					
5	4	534828-01	STUD-SPACER, MOTOR					
6	2	534846-01	PLATE-ADJ					




1	219D
REV'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 EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	
THIRD ANGLE PROJECTION	MODEL SP69600
NOTED	NONE
MATERIAL:	HEAT TREAT:
DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED
.XX .01	.XXX .005
ANG. .5	
SCALE 0.250	DATE 29-Sep-99
DRAWN BY: RHM	MASTER M
CHECKED BY:	
TRACED BY:	
TITLE: ASSY-MOTOR MOUNT	
SHEET NO. 10F1	
DRAWING # 534827-01	

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM QTY	PART #	DESCRIPTION
1	2	535105-01 SHAFT, SPACER
2	2	535106-01 BAR, HORT. SHAFT SUPPORT
3	2	535108-01 BAR, VERT. SHAFT SUPPORT

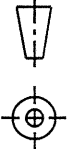



1	534816-01
REQ'D	WHERE USED

 KIRK - RUDY, INC. KENNESAW, GEORGIA	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
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TITLE:	ASSY, DRYER MOUNT
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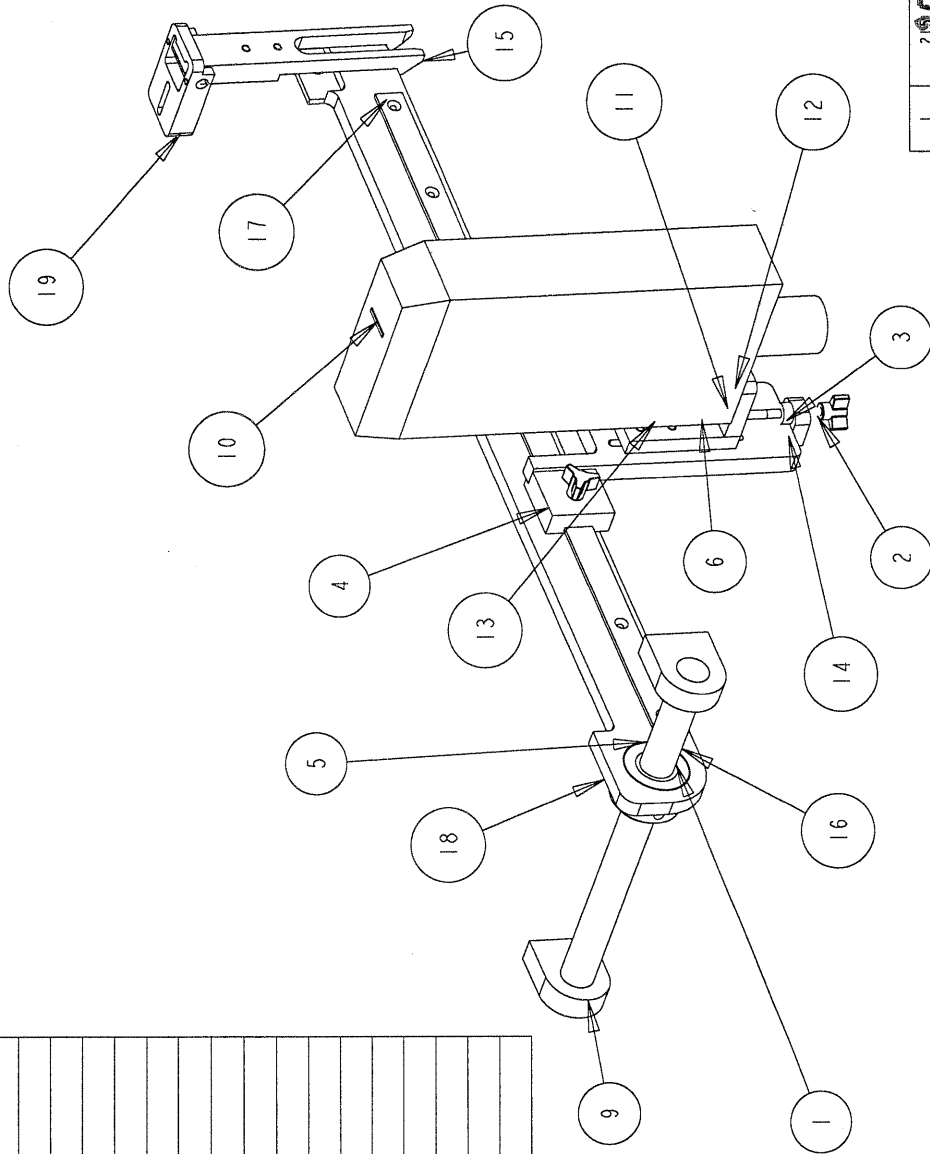
DRAWING #	535104-01
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THIRD ANGLE PROJECTION		MATERIAL: N/A HEAT TREAT: N/A FINISH: N/A	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED .XX .XX ANG. .5 .01 .005 .5 REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY
MODEL:	SP69500		
SHEET NO.:	1 OF 1		




DRAWN BY:	TJG	SCALE	0.250
CHECKED BY:		DATE	7-0c + -98
TRACED BY:		MASTER	

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
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1	1	100109	BUSHING, SLEEVE 1.000
2	3	102119	KNOB
3	1	102225	COLLAR .250
4	2	500755	CLAMP - SIDE GUIDE
5	1	500770	HUB - REAR GUIDE SHAFT
6	1	500810	SHAFT - SCREW ADJ
7	1	535250-01	ASSY, HEAD RAIL MOUNT
8	1	535251-01	ASSY, HEAD MOUNT SCITEX
9	2	535257-01	POST, MOUNT
10	1	SCITEX5120	SCITEX 5120 IJ HEAD
11	1	SP48204	PLATE, VERT. ADJ.
12	1	SP48205	PLATE, HEAD MOUNT
13	1	SP48206	PLATE, LOWER HEAD MOUNT
14	1	SP48207	BLOCK, HEAD ADJ.
15	1	SP48210	CATCH, LOWER PLATE
16	1	SP48212	SHAFT, LOWER BRACKET
17	1	SP36442-2	RAIL, HEAD MOUNT
18	1	SP48209-1	BRIDGE, HEAD RAIL MOUNT
19	1	SP48211-1	BLOCK, LOWER CATCH

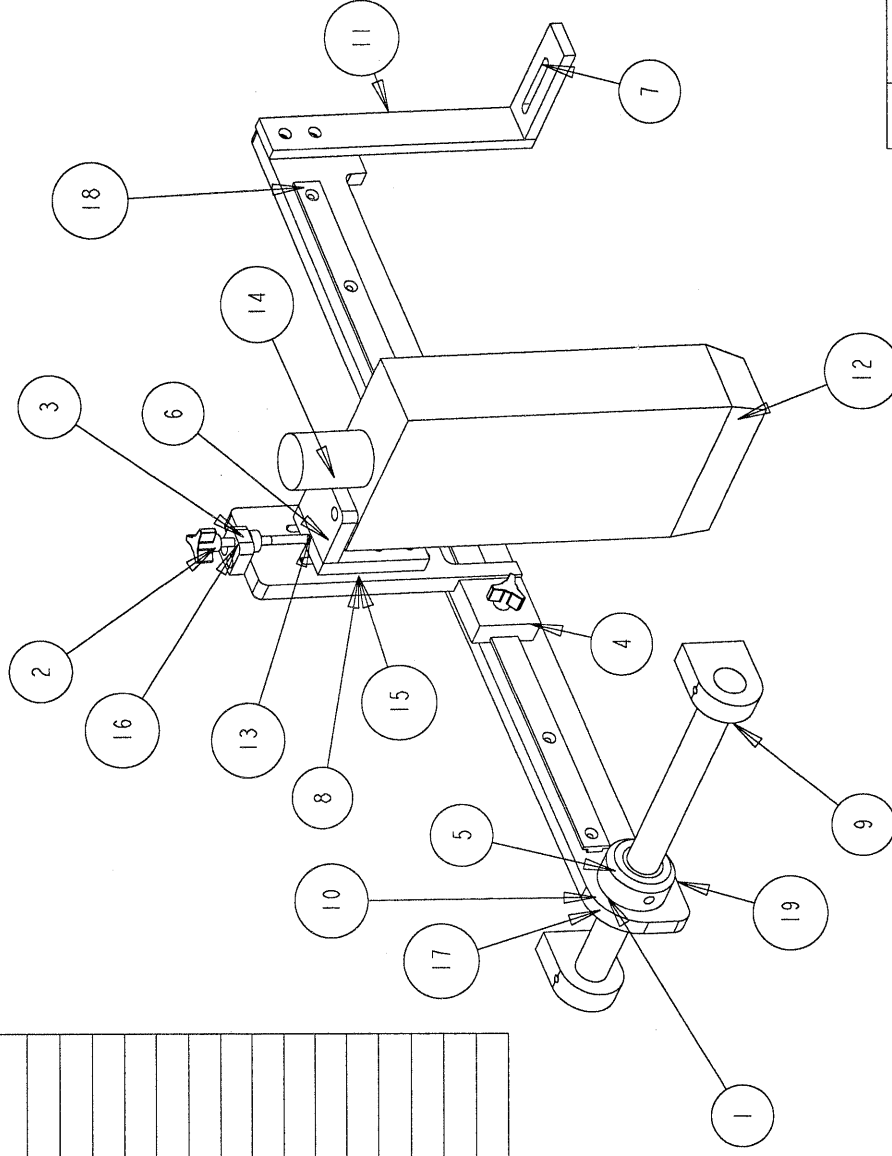


1	219D
REQ'D	WHERE USED

DRAWN BY: RHM	SCALE 0.200	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL:		THIRD ANGLE PROJECTION	 KIRK - RUDY, INC. KENNESAW, GEORGIA	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	
	CHECKED BY:	DATE 08-Jan-99	.XX .01	.XXX .005					ANG. .5
TRACED BY:	MASTER 	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED		FINISH: NONE	SHEET NO.: 10FI				TITLE: ASSY, SCITEX HEAD MOUNT BOTTOM
		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY				DRAWING # 535256-01			

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM QTY	PART #	DESCRIPTION
1	100109	BUSHING, SLEEVE 1.000
2	3	102119 KNOB
3	102225	COLLAR .250
4	2	500755 CLAMP - SIDE GUIDE
5	1	500770 HUB - REAR GUIDE SHAFT
6	1	500810 SHAFT - SCREW ADJ
7	1	500878 SUPPORT - JOGGER TABLE
8	1	535251-01 ASSY, HEAD MOUNT SCITEX
9	2	535257-01 POST, MOUNT
10	1	535259-01 ASSY, HEAD RAIL MOUNT
11	1	535262-01 BRACKET, SUPPORT
12	1	SCITEX5120 SCITEX 5120 IJ HEAD
13	1	SP48204 PLATE, VERT. ADJ.
14	1	SP48205 PLATE, HEAD MOUNT
15	1	SP48206 PLATE, LOWER HEAD MOUNT
16	1	SP48207 BLOCK, HEAD ADJ.
17	1	SP48212 SHAFT, LOWER BRACKET
18	1	SP36442-2 RAIL, HEAD MOUNT
19	1	SP48209-2 BRIDGE, HEAD RAIL MOUNT



1	215
REQ'D	WHERE USED

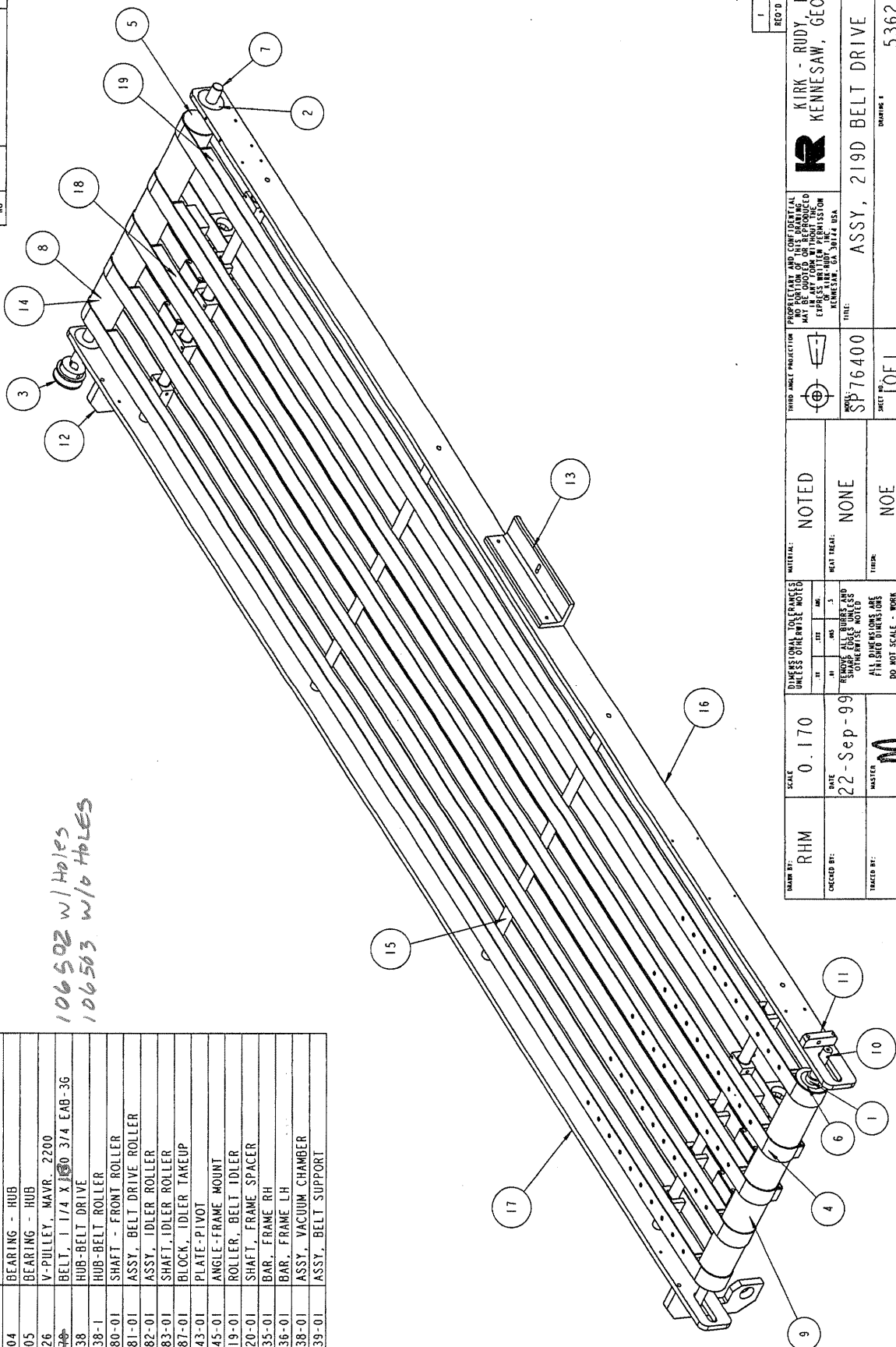
DRAWN BY: RHM	SCALE 0.200	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL: NOTED	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL PART OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA
	DATE 08-Jan-99	.XX	.XX				
CHECKED BY:	DATE 08-Jan-99	.01	.005	HEAT TREAT: NONE	MODEL: SP69500	TITLE: ASSY, SCITEX HEAD MOUNT TOP	
TRACED BY:	MASTER	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED		FINISH: NONE	SHEET NO.: 10FI		
		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY				DRAWING # 535258-01	

536234-01

ITEM	QTY	PART #	DESCRIPTION
1	2	103804	BEARING - HUB
2	2	103805	BEARING - HUB
3	1	105026	V-PULLEY, MAVR. 2200
4	5	106448	BELT, 1 1/4 X 100 3/4 EAB-3G
5	2	500838	HUB-BELT DRIVE
6	2	500838-1	HUB-BELT ROLLER
7	1	533880-01	SHAFT - FRONT ROLLER
8	1	533881-01	ASSY. BELT DRIVE ROLLER
9	1	533882-01	ASSY. IDLER ROLLER
10	1	533883-01	SHAFT, IDLER ROLLER
11	1	533887-01	BLOCK, IDLER TAKEUP
12	2	534843-01	PLATE-PIVOT
13	1	534845-01	ANGLE-FRAME MOUNT
14	2	534919-01	ROLLER, BELT IDLER
15	4	534920-01	SHAFT, FRAME SPACER
16	1	536235-01	BAR, FRAME RH
17	1	536236-01	BAR, FRAME LH
18	3	536238-01	ASSY. VACUUM CHAMBER
19	2	536239-01	ASSY. BELT SUPPORT

106502 w/ Holes
106503 w/o Holes

REV	NO	DATE	DESCRIPTION	ECN	BY
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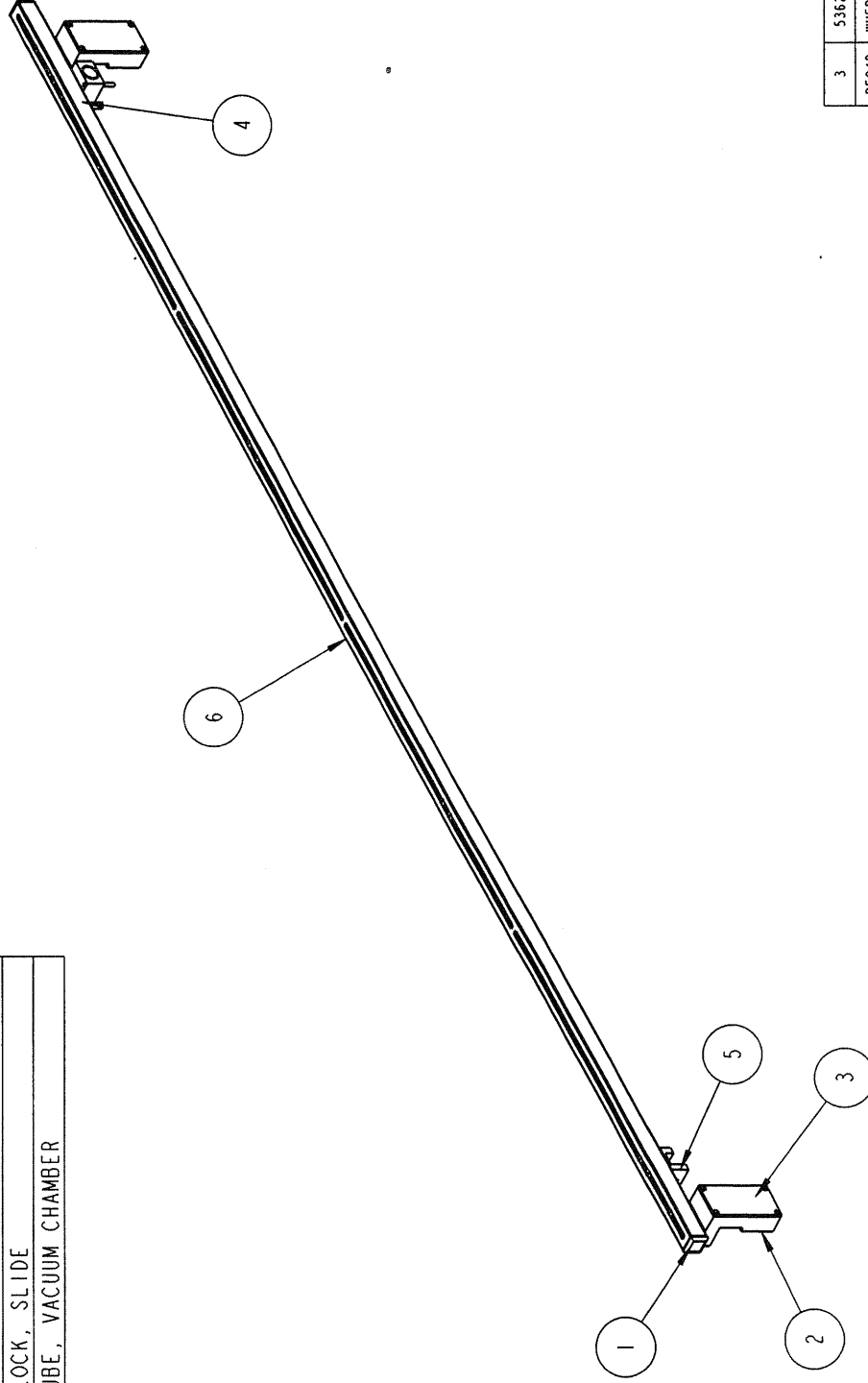


DRAWN BY: RHM		SCALE: 0.170	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL: NOTED		THIRD ANGLE PROJECTION	PROPERTY AND CONFIDENTIALITY NOTICE: THIS DRAWING IS THE PROPERTY OF KIRK - RUDY, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF KIRK - RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA		1 219D REQ'D WHERE USED
CHECKED BY:	DATE: 22-Sep-99	REMOVE ALL BUREAU AND SHOP DIMENSIONS	11	12	13	14	15	16	17	18	19
TRAINED BY:	MASTER: M	ALL DIMENSIONS ARE FINISHED DIMENSIONS	DO NOT SCALE - WORK TO DIMENSIONS ONLY		NONE		SP76400	TIME:	ASSY, 219D BELT DRIVE		536234-01

536238-01

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM	QTY	PART #	DESCRIPTION
1	2	190766	CAP, TUBE END
2	2	533977-01	BLOCK, MANIFOLD
3	2	533978-01	PLATE, MANIFOLD COVER
4	1	534918-01	ASSY, SLIDE BLOCK
5	1	534951-01	BLOCK, SLIDE
6	1	536237-01	TUBE, VACUUM CHAMBER

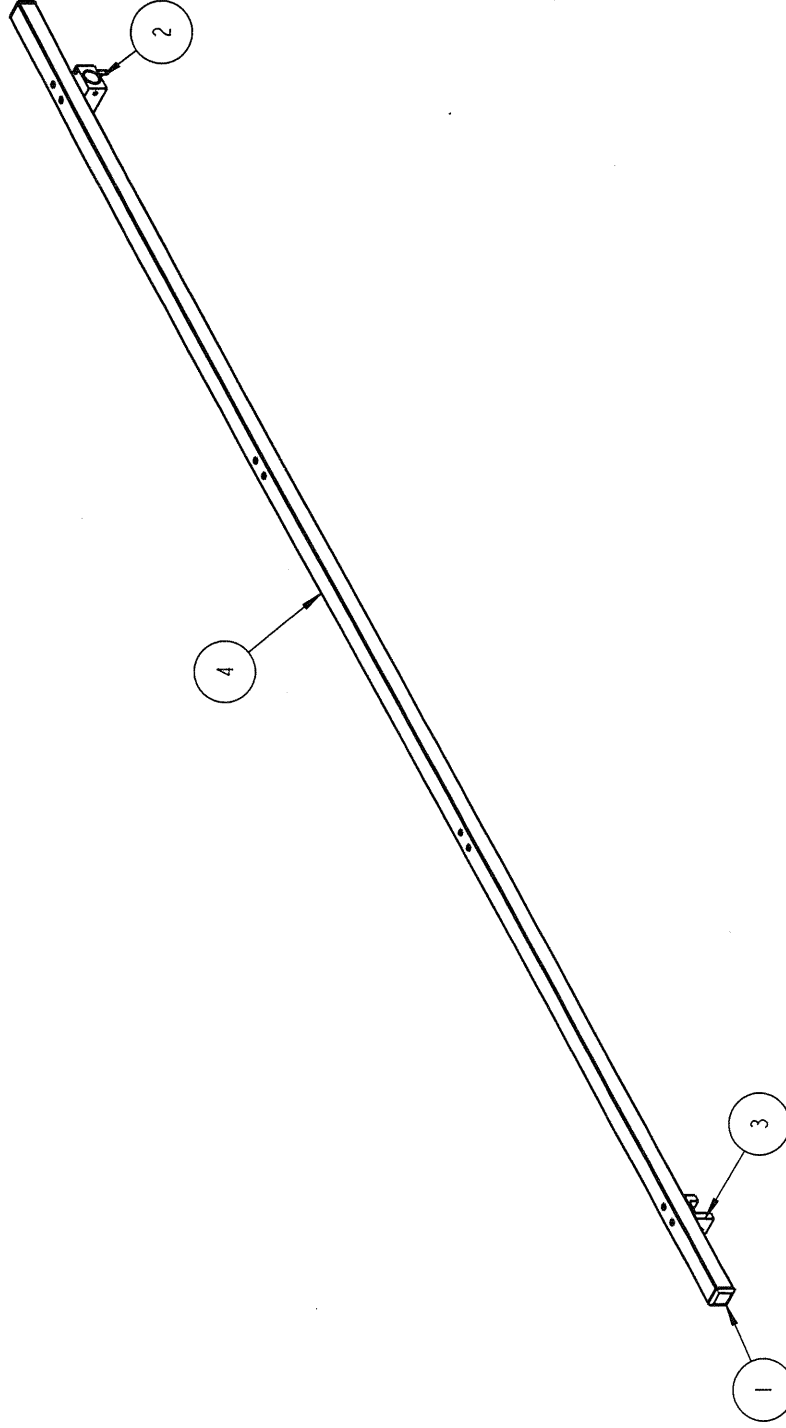


3	536234-01
REQ'D	WHERE USED


DRAWN BY: RHM	SCALE 0.125	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			MATERIAL: NOTED	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 28-Sep-99	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED			HEAT TREAT: NONE	MODEL: 219D	TITLE: ASSY, VACUUM CHAMBER	
TRACED BY:	MASTER 	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY			FINISH: NONE	SHEET NO. 10F1	DRAWING #	
							536238-01	

ITEM	QTY	PART #	DESCRIPTION
1	2	190766	CAP, TUBE END
2	1	534918-01	ASSY, SLIDE BLOCK
3	1	534951-01	BLOCK, SLIDE
4	1	536240-01	TUBE, BELT SUPPORT

REV NO	DATE	DESCRIPTION	ECN NO	BY
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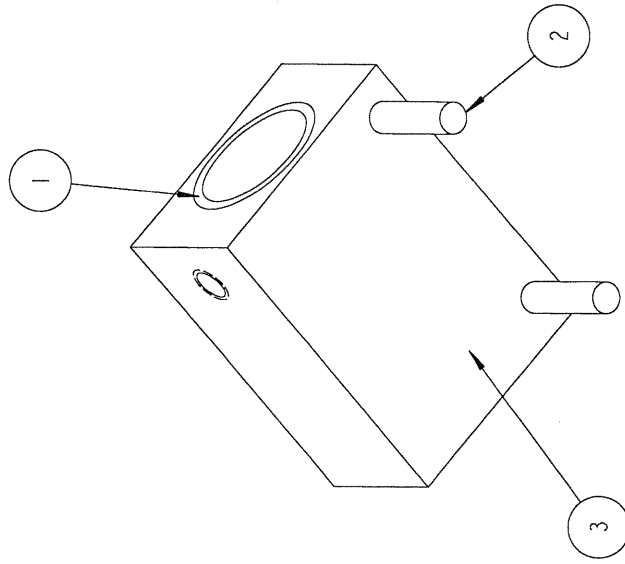


X	536234-01
REQ'D	WHERE USED

DRAWN BY: RHM	SCALE 0.125	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED ANG. .XX .01 .005 .5	MATERIAL: NOTED	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	X 536234-01 REQ'D WHERE USED
	CHECKED BY:						
TRACED BY:	MASTER M						
SHEET NO. 1 OF 1						DRAWING #	536239-01

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM	QTY	PART #	DESCRIPTION
1	2	100170	BUSHING, SLEEVE .750
2	2	105400	DOWEL, PIN .188X1.250
3	1	533885-01	BLOCK, VAC/GUIDE SLIDE



10	SP69500
REQ'D	WHERE USED

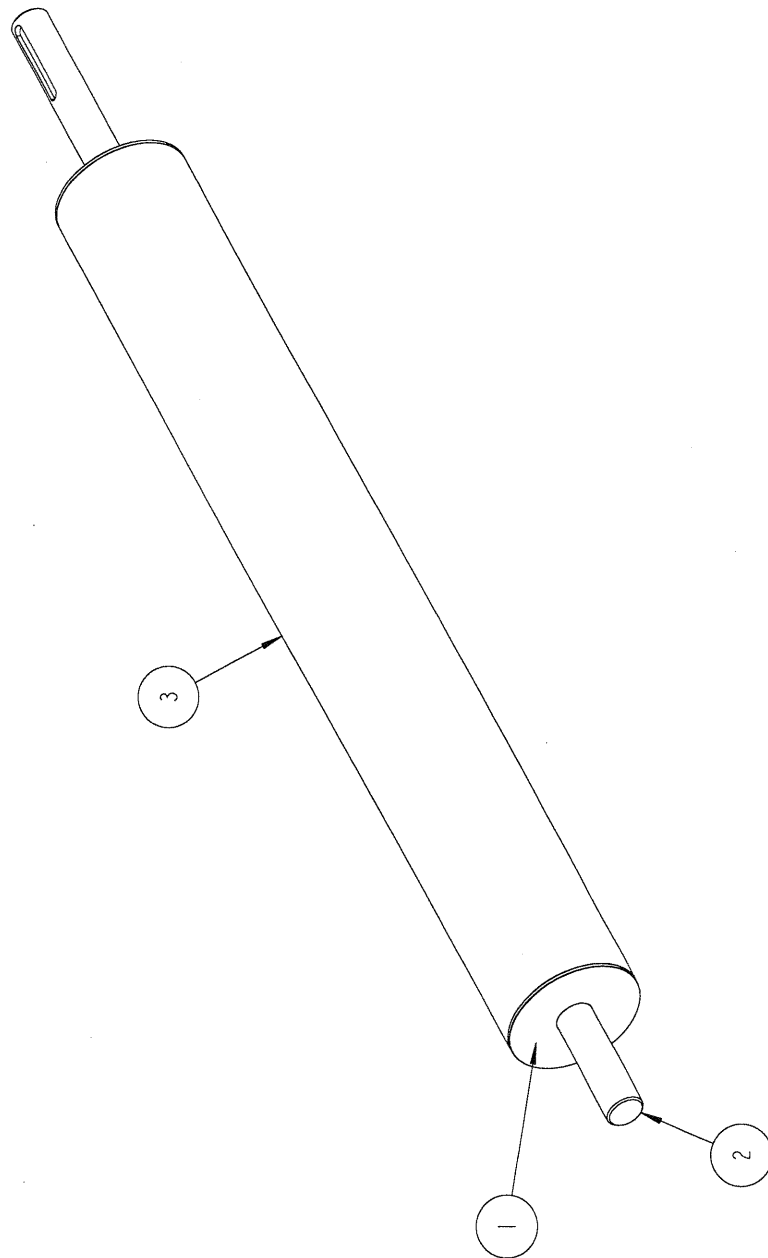
DRAWN BY: RHM	SCALE 1.000	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED .XX .XXX ANG. .01 .005 .5	MATERIAL: NOTED	THIRD ANGLE PROJECTION 	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE QUOTED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	 KIRK - RUDY, INC. KENNESAW, GEORGIA	10 SP69500 REQ'D WHERE USED
	DATE 28-Sep-98						

CHECKED BY:	28-Sep-98	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT: NONE	MODEL: SP69500	TITLE: ASSY, SLIDE BLOCK
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TRACED BY:	MASTER 	ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	FINISH: NONE	SHEET NO.: 10F1	DRAWING # 534918-01
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ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
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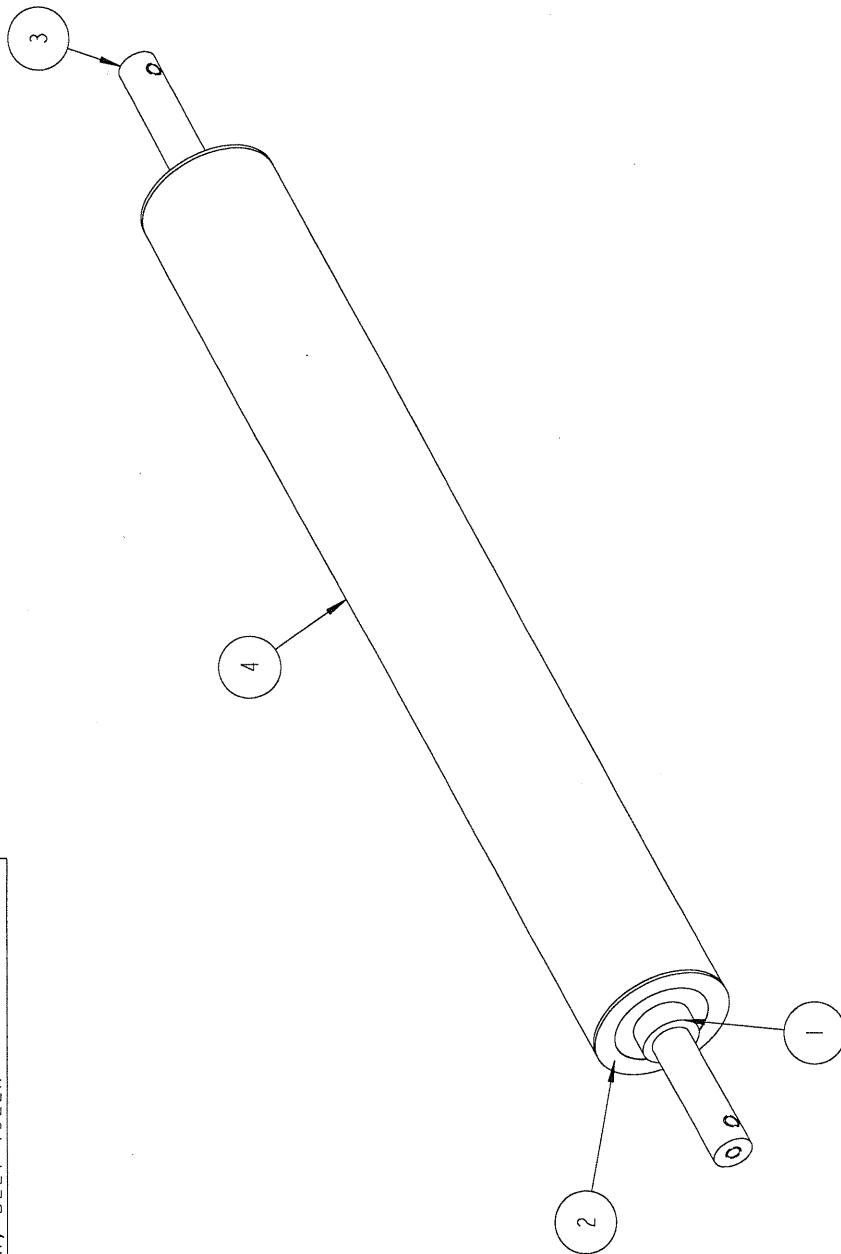
1	2	500838-2	HUB-BELT DRIVE					
2	1	533880-01	SHAFT, DRIVE ROLLER					
3	1	534919-01	ROLLER, BELT IDLER					



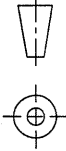


DRAWN BY: RHM		SCALE: 0.375	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL: NOTED	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA	I 533979-01 REQ'D WHERE USED
CHECKED BY:	DATE: 28-Sep-98		.XX .XXX ANG. .01 .005 .5	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED	HEAT TREAT: NONE				
TRACED BY:	MASTER M		ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY				TITLE: ASSY, BELT DRIVE ROLLER		
								DRAWING # 533881-01	

REV NO	DATE	DESCRIPTION	ECN NO	BY
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ITEM QTY	PART #	DESCRIPTION
1	2	103804 BEARING, HUB .625
2	2	500838-1 HUB-BELT ROLLER
3	1	533883-01 SHAFT, IDLER ROLLER
4	1	534919-01 ROLLER, BELT IDLER

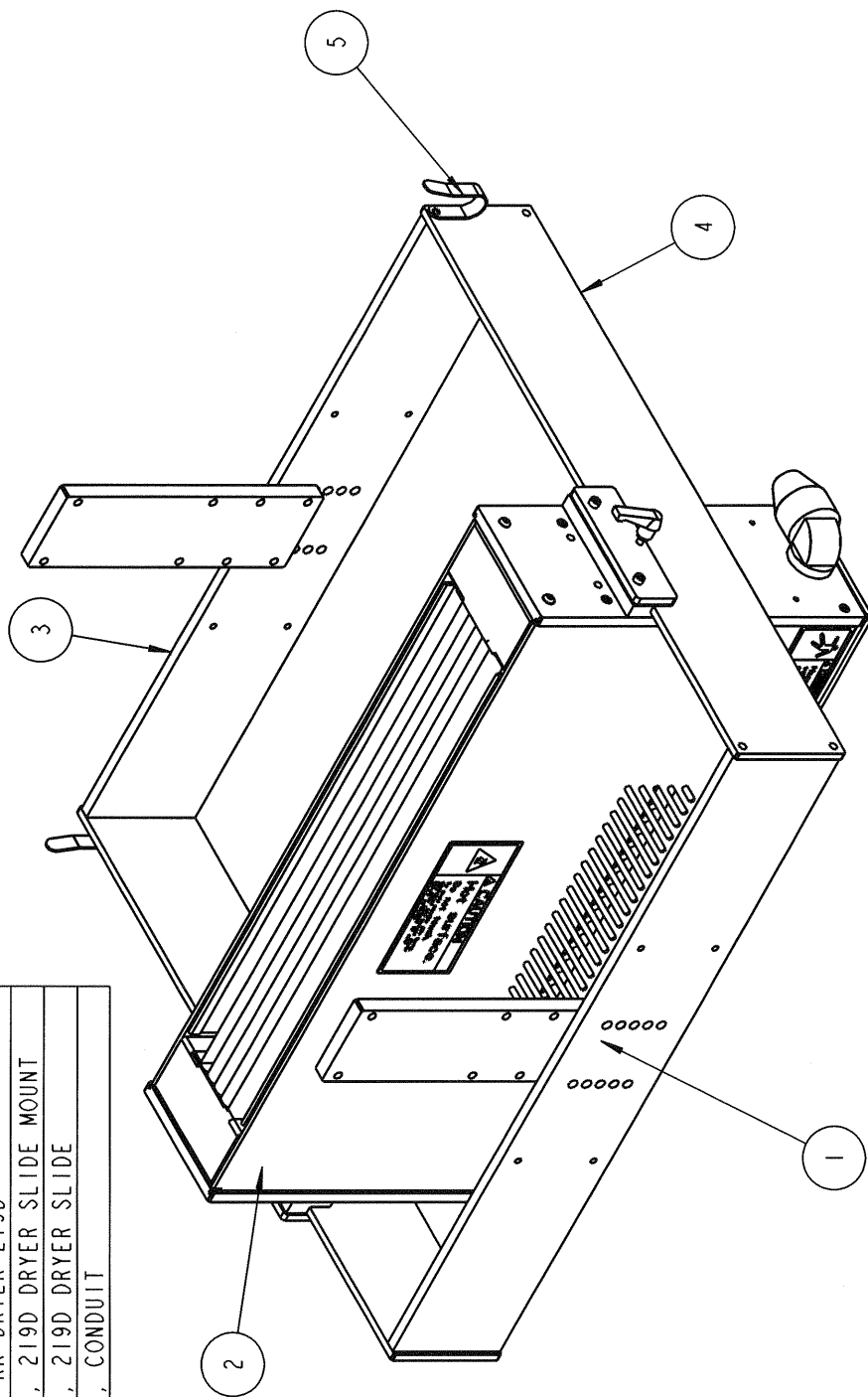


1	533979-01
REQ'D	WHERE USED



DRAWN BY: RHM	SCALE 0.375	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED		MATERIAL: NOTED		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 28-Sep-98	<table><tr><td>.XX</td><td>.XXX</td><td>ANG.</td></tr><tr><td>.01</td><td>.005</td><td>.5</td></tr></table>		.XX				.XXX	ANG.	.01	.005	.5
.XX	.XXX	ANG.										
.01	.005	.5										
TRACED BY:	MASTER 	REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY		FINISH: NONE	SHEET NO.: 1 OF 1	TITLE: ASSY, IDLER ROLLER	533882-01					

ITEM	QTY	PART #	DESCRIPTION
1	2	535108-01	BAR, VERT. SHAFT SUPPORT
2	1	538705-02	ASSY, KR DRYER 219D
3	2	538719-02	PLATE, 219D DRYER SLIDE MOUNT
4	2	538720-03	PLATE, 219D DRYER SLIDE
5	2	538791-01	CLAMP, CONDUIT

REV NO	DATE	DESCRIPTION	ECN NO	BY
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REQ'D	219D
WHERE USED	

DRAWN BY: TJG	SCALE 0.188	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			MATERIAL: NOTED	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 31-May-01	.XX	.XXX	ANG.					
		.01	.005	.5					
CHECKED BY:	MASTER	REMOVE ALL BURRS AND SHAPE EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY			HEAT TREAT: NONE	MODEL: SP88100	TITLE: ASSY, 219D DRYER SUPPORT		
TRACED BY:					FINISH: NOTED	SHEET NO.: 1 OF 2	DRAWING #		538721-03

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
1	2	102147	HANDLE, RELEASE 1/4-20 X .50					
2	1	533712-04	SHAFT, DRYER HANDLE					
3	2	538716-01	BLOCK, SLIDE DRYER					
4	2	538717-01	PLATE, SLIDE CLAMP					
5	2	538718-01	PLATE, SLIDE LOCK					
6	1	538719-04	PLATE, DRYER SLIDE MOUNT					
7	2	538720-01	PLATE, SINGLE DRYER SLIDE					
8	2	548333-01	PLATE, RESEARCH DRYER MOUNT					
9	1	RES5061	DRYER, RESEARCH 5061					

THIRD ANGLE PROJECTION

SA320

DRAWN BY:	TJG	SCALE	0.250	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED	NOTED	MATERIAL:	NOTED	THIRD ANGLE PROJECTION	PROPRIETARY AND CONFIDENTIAL NO PORTION OF THIS DRAWING MAY BE COPIED OR REPRODUCED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	KIRK - RUDY, INC. KENNESAW, GEORGIA	REQ'D	2190	WHERE USED
CHECKED BY:		DATE	11-Nov-04	.XX .01 .005 .5 ANG.	NONE	HEAT TREAT:	NONE	MODEL	ASSY, RESEARCH DRYER SUPPORT				
TRACED BY:		MASTER		REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE FINISHED DIMENSIONS DO NOT SCALE - WORK TO DIMENSIONS ONLY	NOTED	FINISH:		SHEET NO.	10F1				

DRAWING # 538721-06

ITEM	QTY	PART #	DESCRIPTION	REV NO	DATE	DESCRIPTION	ECN NO	BY
1	2	102147	HANDLE, RELEASE 1/4-20 X .50					
2	2	535108-01	BAR, VERT. SHAFT SUPPORT					
3	2	538716-01	BLOCK, SLIDE DRYER					
4	2	538717-01	PLATE, SLIDE CLAMP					
5	2	538718-01	PLATE, SLIDE LOCK					
6	2	538719-05	PLATE, 219D DRYER SLIDE MOUNT					
7	2	538720-03	PLATE, 219D DRYER SLIDE					
8	2	548333-02	PLATE, RESEARCH DRYER MOUNT					
9	1	RES5061	DRYER, RESEARCH 5061					

THIRD ANGLE PROJECTION	MODEL	SHEET NO.	TITLE	PROPRIETARY AND CONFIDENTIAL NO REPRODUCTION OR REPRODUCTION IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF KIRK-RUDY, INC. KENNESAW, GA 30144 USA	REO'D	WHERE USED
	SA320	10F2	ASSY, 219D DRYER SUPPORT	KIRK - RUDY, INC. KENNESAW, GEORGIA	1	219D

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

13 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.

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FX 770-427-4036