Serial Numbers 032425 & Up

TECHNICAL SERVICE AND PARTS MANUAL



TITAN 200

PAPER CUTTING

MACHINE

Sold and Serviced by

The Challenge Machinery Company 6125 NortonCenter Drive Norton Shores, MI 49441-6081 USA

ChallengeMachinery.com

F.200-CT

1.0 Introduction

THIS MANUAL is designed to help you get the most from your Challenge equipment. Keep this manual in a safe, convenient place for quick reference by operators and service personnel.

CAUTIONSAFETY ALERT! This symbol means CAUTION: Personal safety instructions! Pay special attention to the instructions in bold type. Personal injury may result if the precautions are not read and followed.

FOR PARTS AND SERVICE contact the Authorized Challenge Dealer from whom you purchased your machine. Use the illustrations and parts lists at the back of this manual to identify the correct parts needed. Always give the **SERIAL NUMBER** and **MODEL** of your machine to insure the correct parts are sent as soon as possible.

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2.0 Safety

2.1 Precautions

- This machine is designed for one-person operation. Never operate the machine with more than one person.
- Safe use of this machine is the responsibility of the operator. Use good judgment and common sense when working with and around this machine.
- Read and understand all instructions thoroughly before using the machine. If questions remain, contact the dealer from which you purchased this machine. Failure to understand the operating instructions may result in personal injury.
- Only trained and authorized people should operate this machine.
- DO NOT ALTER SAFETY GUARDS OR DEVICES. They are for your protection. Severe personal injury may result.
- **Disconnect power** before cleaning or performing maintenance. See Section 2.2 Power Lockout Procedure.
- Observe all caution labels on this machine.
- Be sure the cutter is properly grounded.
- Be sure there is sufficient power to operate the cutter properly.
- Observe all caution plates mounted on this cutter.
- Keep foreign objects off table and away from cutter blade.
- **BE EXTREMELY CAREFUL** when handling and changing the cutter knife. Severe lacerations or dismemberment could result from careless handling procedures.
- Keep the floor around the cutter free of trim, debris, oil and grease.
- When replacing hydraulic parts, loosen the connections slowly to release pressure. Never loosen connections with the machine running.
- If the cutter sounds or operates unusually, turn it off and consult the troubleshooting section of this manual. If the problem cannot be corrected, have it checked by a qualified service person.
- CRUSH HAZARD, keep hand and fingers from under the clamp when clamping paper. Use
 Jogging Aid to load paper, and use the backgauge to push paper out before unloading. DO NOT
 REACH UNDER THE KNIFE AND CLAMP AREA!

2.2 Power Lockout Procedure

For maximum safety while making adjustments or repairs to your machine, be sure to disconnect power to the machine. Disconnect the power plug from its socket

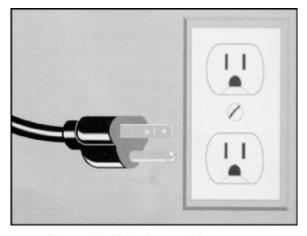


Figure 1 - Main Power Disconnect

2.3 Warning Label Definitions

The following warning labels are found at various locations on your machine. Read and understand the meaning of each symbol. If a label is lost from the machine, it should be replaced.



HAZARDOUS AREA

Disconnect power before cleaning, servicing, or making adjustments not requiring power. Do not alter safety guards or devices; they are for your protection. Replace all guards. Do not operate with any guards removed.



SHOCK HAZARD

Disconnect power before removing cover. Replace cover before operation.



SHOCK HAZARD

Disconnect power before removing cover. Replace cover before operation.



SINGLE OPERATOR

Do not operate with more than one person.

3.0 Maintenance Guide

A NOTICE **A**

The instructions on the following pages are for the use of trained service personnel only!

Attempting to perform repair and replacement procedures without proper training may cause machine damage or operator injury!

PARTS CUSTOMERS: Parts with the express understanding that they are to replace parts found missing or no longer serviceable on equipment designed and/or manufactured at Challenge. The Challenge Machinery Company assumes no liability for any modification or alteration to any Challenge products, and any such modification or alteration to any Challenge product is not authorized by The Challenge Machinery Company. Any modification or alteration of any Challenge product will void any remaining warranty.

3.1 Troubleshooting

WON'T START

Fuse Blown.

Power cord disconnected.

Main power switch not turned on.

BACKGAUGE DISPLAY INACCURATE

Preset circuit board malfunction.

Encoder malfunction.

Main circuit board malfunction.

BACKGAUGE DISPLAY INACCURATE - BY CONSTANT AMOUNT

Backgauge needs accuracy adjustment.

Presetter malfunction.

CUT BUTTONS PUSHED - WON'T CUT

Check error codes (page 8).

Obstruction between electric eyes (if equipped).

Guard open (if equipped).

Guard hasn't been opened since last cut (if equipped).

Hydraulic fluid low.

Main relief valve setting off.

Sequence pressure set wrong.

Cut button defective.

Motor relay defective.

Knife latch solenoid defective.

Knife down coil defective.

Defective directional valve.

Cylinder disconnected from cylinder bracket.

Knife bar dirty or dry, lubricate knife guideways.

Dirt in hydraulic system.

CLAMP STARTS UP BEFORE KNIFE IS UP

Clamp Up Sequence Valve setting incorrect/defective.

CONCAVE CUTTING - ENDS WIDE, CENTER NARROW

Excessive moisture at edges of paper.

CONCAVE CUTTING - VARIATION FROM TOP TO BOTTOM

Soft paper not firmly clamped.

Knife dull or incorrectly grounded.

ERRATIC OPERATION-POWER LOSS

Hydraulic fluid low.

Dirt in hydraulic system.

Oil bypassing piston in cylinder.

Voltage supply is low.

KNIFE DRIFTS DOWN

Knife latch not engaging or damaged.

KNIFE HESITATES OR STALLS

Dull knife.

Main relief valve setting off.

Paper clamped too tight - lower clamp pressure reducer setting.

Cylinder seals worn - leaking pressure.

Hydraulic fluid low.

Voltage supply is low.

KNIFE STARTS DOWN BEFORE CLAMP REACHES TABLE

Knife down sequence valve setting incorrect.

Clamp pressure set too low.

KNIFE WON'T RETURN UP

Solenoid defective.

Limit switch out of adjustment.

Cylinder disconnected from bracket.

Sequence valve misadjusted.

PUMP-MOTOR WON'T SHUT OFF

Knife/Clamp Up Limit switch not activated - readjust. Motor relay contacts welded.

3.2 Description of Error Messages

Message	Description	Test
Backgauge Failure	Backgauge doesn't move	Mechanical bind; encoder failure; main pcboard; blown fuse
Backgauge at Limit	Backgauge is all the way forward or backward	
Cheksum Error	Bad program chip	Replace EEPROM
Clamp Up Failure	Clamp failed to return to up position within 7 seconds	Clamp up sequence valve; solenoid (cut) valve
Clamp Down Failure	Clamp failed to come down	Solenoid valves; low voltage, low pressure
Clamp or Knife Down	Clamp or knife stayed down	No main pressure; stuck solenoid valve
DATA IS OUT OF RANGE	The number is outside the limits of the machine	Informational error
Motor Starter Failure 1	Motor starter was OFF when it should have been ON	Defective motor contact switch
Motor Starter Failure 0	Motor starter was ON when it should have been OFF	Defective motor contact switch
Knife Latch Failure 1	Latch prox. ON when it should have been OFF	Loose solenoid wire; mechanical bind; knife up prox. Switch out of adjustment; defective prox. Switch
Knife Latch Failure 0	Latch prox. OFF when it should have been ON	
Knife Down Failure	Knife failed to come down within 4 seconds	Low main pressure; low voltage; knife down sequence valve
Knife Up Failure	Knife failed to return within 1.17 seconds	Mechanical bind; solenoid (cut) valve
Knife at Both Limits	Knife up and down prox. Switches are on at the same time	Prox. Switches; broken knife bar components

Message	Description	Test
Lubricate Machine	Lubricate machine alarm	Have machine lubricated
Memory Failed	A memory error occurred during test	
Encoder wires 9 & 10 are reversed	Should only occur during initial assembly otherwise is an encoder error	Replace encoder
Memory Locked	Tried to change a locked channel	
Next Channel Locked	Tried to link two channels together and the linked channel is locked	
Number Outside of Limit	Selected cut position beyond limits of machine	Operator error; false clamp limit
Positioning Error	Backgauge failed to move to programmed position within +/005	Mechanical bind; encoder failure; main pcboard; leadscrew thrust washers loose; gibs loose
Remove Obstruction	Obstruction is blocking electric eyes, or electric eyes are not functioning properly	Remove obstruction, check alignment of eyes, check all electric eye connections
Result is Negative	When a math operation yields a negative number	
Send Cancelled	Console key was pressed while backgauge was moving	Operator error; key board failure
Sequence Error	Timing error in either up or down cycled	Low main pressure; any sequence valve
Sharpen Knife	Sharpen knife alarm	Have knife sharpened
Shorted Key Error	Console Key shorted	Operator error; defective keyboard

 $^{^{\}star\star}$ If error codes cannot be reset by depressing the clear key, the power will have to be turned OFF and ON **

3.3 Sensor Data Abbreviations

Abbreviations	Standby	Description	Location
LEFTCUT	0	Left Cut Button	Lower front of table
RGHTCUT	0	Right Cut Button	Lower front of table
KNFLAT	0	Knife Latch Proximity Switch	Left side of cutter opening
HYDMOT R	*1	Motor Starter Relay Status	Right side of power panel
KNFDWN	1	Knife Down Proximity Switch	Inside of cutter opening, right side
PRESET	1	Preset Sensor	Rear of cutter, under left side of table
CUTSOL	0	Cut Valve	Solenoid Valve on left side of manifold
UNLOAD	0	Unload Valve	Solenoid Valve* (not in use yet)
KNLATSOL	0	Knife Latch Solenoid	Inside of cutter opening, left side

CLAMPUP	1	Clamp up Proximity Switch	Inside rear of cutter opening, left side
HYDUP	1	Hyd. Clamp Up Proximity	At bottom of clamp cylinder
KNFUP	0	Knife Up Proximity Switch	Inside of cutter opening, left side
CUTBTN	0	Cut Button	On display console
EYES / GUARD	1	Electric Eyes OR Front Guard	In front of cutter opening.
HYDMOT O	0	Hydraulic Motor Relay Output	Top right side of main pcb
N.C.	0	No Connection	
LTLINE	1	Line Light Output	Inside rear cutter opening, left side
CBTNLIT	0	Cut Button Light	In display console

^{*}On when pump is running.

3.4 Routine Maintenance

CAUTIONDISCONNECT POWER before making any adjustments or lubricating. See page 4, SAFETY PRECAUTIONS, for Power Lockout Procedure.

This machine should be placed on a regular maintenance schedule. A clean, lubricated machine will run longer, smoother, cut more accurately, with less downtime and fewer costly repairs. Schedule lubrication both early in the day and early in the week. This allows the lubricants to work into the machine. Lubrication at the end of the day or week allows the lubricants to run off without any benefit to the machine. The following guidelines will help you set up a regular maintenance schedule:

3.4.1 Weekly

Clean — Clean off old, dirty excess grease. Remove the lower front panel cover and clean accumulated dust off valves, hoses and connections. Built-up dust increases operating temperatures, which causes premature wear to all hydraulic components.

Hardware — Remove the lower front panel cover, rear panel cover, and top hood to check all nuts and bolts for tightness. Loose hardware is the cause of most component wear and in the electrical area could cause short circuits and/or shock.

Hydraulic Fluid — Low fluid level causes excessive heat and wear on the system. Check the fluid level as described in section 3.5 below.

Oil and Grease — See section 3.6

3.4.2 Monthly

Backgauge Squaring — See section 3.7.3

3.4.3 Yearly

Change Hydraulic Fluid — See section 3.5

3.5 Checking/Changing the Hydraulic Fluid

The hydraulic fluid level should be checked weekly. To check, remove the lower rear cover and unscrew the cap on top of the tank (Figure 2).

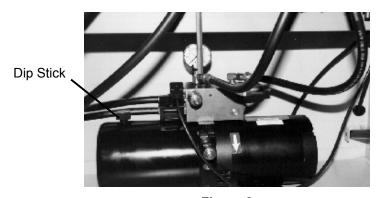


Figure 2

Fluid level should be at 1/8" from the end of the dip stick (check with dip stick cap screwed in). Add fluid if necessary but avoid overfilling as this could cause leakage when hot. Replace the rear panel when finished.

The hydraulic fluid should be changed **AT LEAST ONCE-A-YEAR** or after every 1,000 hours of operation. **NOTE**: Failure to change oil when needed can damage seals in the cylinders, pump, and valves.

Empty the hydraulic tank and refill with 1 gallon of International Standards Organization Viscosity Grade 100 (ISO VG 100) rust, oxidation, and foam inhibiting hydraulic fluid (Challenge part no.: **S-1991**).

NOTE: NEVER use automatic transmission fluid or brake fluid as a substitute for the correct hydraulic fluid. A table of various manufacturers and their equivalents is listed below.

3.5.1 Recommended Hydraulic Oils

Use one of the recommended oils or an ISO VG 100 Hydraulic Fluid equivalent only. Oils other than the recommended type will cause seals and O-rings to deteriorate. Unsafe operating conditions will result.

Oil Name	<u>Distributor</u>
Rykon No. 100	AMOCO
Duro AW Oil 465	Arco
AW Machine Oil 100	Chevron
Pacemaker XD No. 100	Citgo
Super Hydraulic 100	Conoco
Nuto H-100	Exxon
Harmony 100 AW	Gulf
HO 2A Hydraulic Oil	Lubriplate
DTE No. 18	Mobil
Pennzoil AW 100	Pennzoil
Magnus A Oil 215	Phillips
Tellus 100	Shell
Energol HLP 100	Sohio
Industron 100	Std. Oil
	Indiana/Boron
Sunvis 851 WR	Sun Oil Co.
Rando HD 100	Texaco
Unax AW 100	Union Oil Co.

3.6 Oil and Grease

Turn the power off and disconnect the power cord. Open the front guard (if equipped) and open the top hood for access. Parts requiring oiling are marked with red paint. See figures Figure 3 through Figure 10 starting on page 12 for oil and grease locations. Figure 3 through Figure 5 require the knife and clamp be in the up position. Figure 6 through Figure 10 require the knife and clamp be down. Wipe off any old or excess grease. Use any brand-name type of grease or light oil to lubricate. It may be necessary to use the supplied grease brush to access some locations. Note: the leadscrew may be lubricated with grease or oil. Oil has a tendency to run off and must be lubricated more frequently; grease tends to collect paper dust and must be cleaned off periodically.

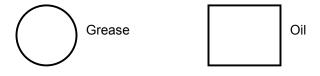




Figure 3 - Knife Bar Link - L.H. Side, Upper

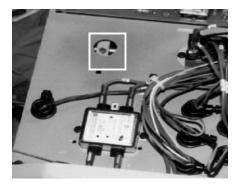


Figure 4 - Knife Bar Link - R.H. Side, Upper

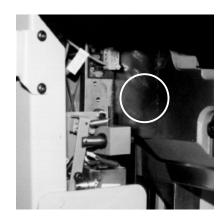


Figure 5 – Knife Bar



Figure 6 - Knife Bar Link - L.H. Side, Lower

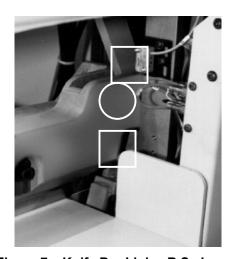


Figure 7 – Knife Bar Link – R.S., Lower

Knife Bar

Knife Cylinder Bracket, Upper

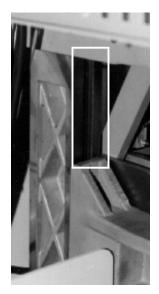




Figure 8 & Figure 9 - Clamp Guides

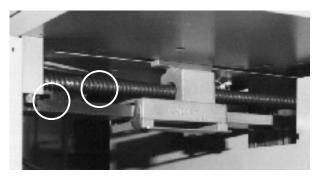


Figure 10 - Leadscrew and Backgauge Guide

3.7 Adjustments

Several of the following tests require the machine to be operational for checking and adjusting. Be very careful that tools and other people are clear of moving parts and that the cutter is not accidentally operated while adjustments are being made. Whenever working on the machine, disconnect the power and lock it out (see SAFETY PRECAUTIONS, page 4) unless the directions specifically require the machine to be powered.

3.7.1 Electric Eye Alignment

If your machine is equipped with electric eyes, the alignment can be checked as follows:

Turn on the power switch, and make sure there are no obstructions between the electric eyes.

- If the green and yellow lights on the electric eyes are on solid, then the eyes are in proper alignment.
- If the red light is on and the yellow light is off or flashing, then the eyes either blocked or not aligned properly.

If alignment is necessary, loosen the screws that attach the electric eye brackets to the table extensions. Adjust until the green and yellow lights are on solid as described above and tighten screws.

3.7.2 Backgauge Gib Adjustments

If the backgauge does not stay squared or jumps up and down when jogging paper against it, the backgauge gib screws are probably loose or worn.

To Adjust:

- 1. Send the backgauge near the rear of the table.
- 2. Turn off the power and disconnect the power cord.
- 3. Remove the leadscrew cover under the table.
- 4. Loosen the two side gib screws and the bottom nylon guide screws (Figure 11, next page).

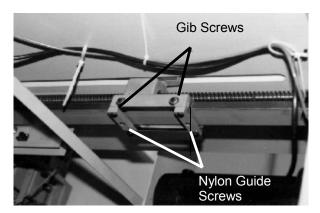


Figure 11

- 5. Tighten the bottom, nylon guide screws until they just touch the guide. Do not overtighten or they could cause the backgauge to bind.
- 6. Similarly, turn the side gib screws in until they just touch the guide. Lock in position with the jam nuts.
- 7. Run the backgauge back and forth the length of the table using the backgauge glide control. Check for any binding. Readjust if necessary.

NOTE: The screws should be tightened to hold the backgauge square against the guide rail. Excessive tightening will cause the backgauge to bind and cause premature wear of all components.

3.7.3 Squaring the Backgauge

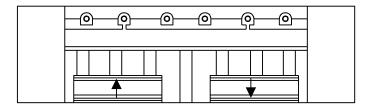


Figure 12

To test if the backgauge is square, place a small lift of paper against the left side of the backgauge (but not against the side guide) and make a cut. Now, leave the backgauge in the same position, flip the lift over and push it against the right side of the backgauge (but not against the side guide). Make another cut to see if any of the paper will trim off. Run two checks, one starting on the left and moving to the right; the other, moving from the right to the left. If paper is trimmed in either sequence, the backgauge is out of square.

1. Make sure the backgauge gibs are set properly (see section 3.7.2).

NOTE: Gib adjustments are not necessary on initial machine set-up as gibs have been adjusted at the factory.

- 2. Remove the rear plexiglass table cover.
- 3. Loosen the jam nuts on the backgauge adjusting screws (Figure 13).

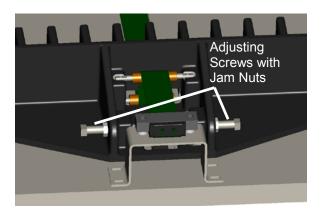


Figure 13

- 4. Back off the adjusting screw on the side that the trim occurred and tighten the other.
- 5. With the squaring screws tight, make another test. Continue to adjust and test until no trim occurs when testing either sequence.
- 6. Replace the rear plexiglass table cover.

Note: Once the backgauge is square, restore power to the machine and check the backgauge accuracy (see the Titan 200 Operator manual) to make sure it is accurate.

3.7.4 Clamp Pressure Adjustment

Adjust the clamp pressure reducer (Figure 14) to the desired setting. It is factory preset at 800 psi. Read the gauge with the clamp down and as the knife begins to move down. Loosen the jam nut on the valve stem. With an allen wrench, turn the stem clockwise to increase pressure and counterclockwise to decrease pressure.

Note: When cutting pressure sensitive paper, you may want to reduce the clamping pressure **(400 psi minimum)** to prevent marking the paper.

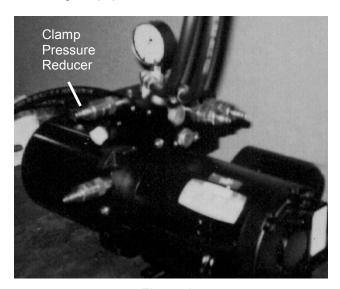


Figure 14

CAUTIONDO NOT set the clamp pressure below 400 psi. Severe lacerations or dismemberment could result! The knife and clamp system loses sequence at settings below 400 psi and the knife could come down before the clamp.

3.7.4.1 Optional Electronic Clamp Pressure Control Adjustment

The electronic clamping control option allows the convenience of changing the clamp pressure at the control console. The pressure is controlled by use of the up and down arrow keys, 0 being the lowest - 15 the highest; and is indicated in the upper right hand corner of the display.

Note: To turn the electronic clamp control option on or off, enter the Maintenance Mode and choose Diagnostic. Then choose Electric Clamp and select "ON" or "OFF".

To adjust the actual clamp pressure maximum and minimum, first make sure the Electric Clamp option is set to "ON" (see above paragraph). Enter the Maintenance Mode and choose Diagnostic. Then choose Clamp Adjust, and the screen on the following page should be displayed:

Now perform a cut cycle. After the clamp has contacted the table and while the knife bar is coming down, read the pressure on the right hand pressure gauge. It should read 800 psi. If it does not, correct by using the up and down arrow keys. When finished, press soft-key "D" to exit and go to the minimum pressure set up screen shown next:

Perform a cut cycle. After the clamp has contacted the table and while the knife bar is coming down, read the pressure on the right hand pressure gauge. It should read 400 p.s.i. If it does not, correct by using the up and down arrow keys. When finished, press soft-key "C" to return to Send Mode, or soft-key "D" to return to Diagnostics.

3.8 Cleaning

Before cleaning inside machine, turn off and lockout power, page 4.

Hydraulics

- 1. The vent fan should be wiped off weekly to maintain maximum cooling of the hydraulic system.
- 2. The hydraulic manifold, fittings, and hoses should be wiped off weekly to maintain maximum cooling. Remove then replace panels as necessary.

Table

- 1. The front table should be wiped down periodically. Use a non-abrasive cleaner along with a protective wax.
- 2. The rear table cover and front guard (if equipped) may be cleaned with glass cleaner or a mild water based detergent. Some petroleum-based solvents may damage the plexiglass.

Console

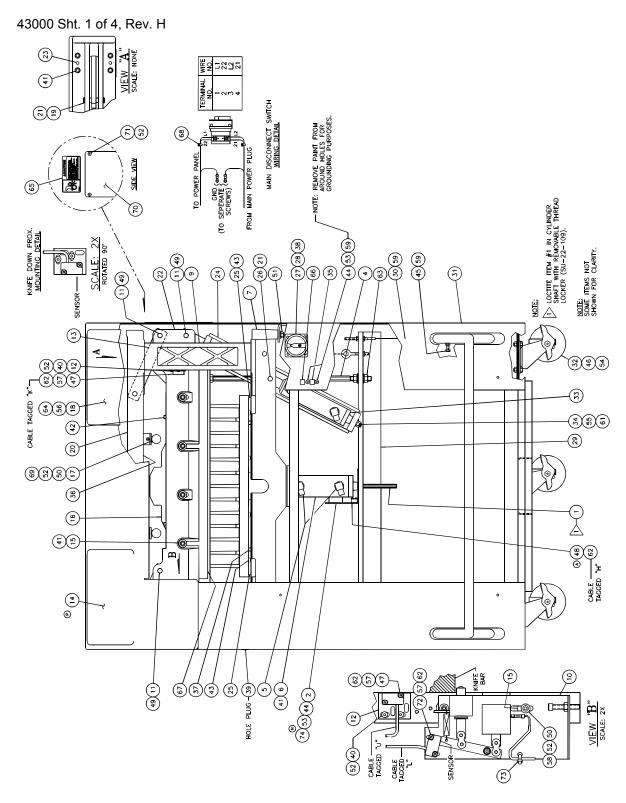
1. The console should be cleaned with a mild water based detergent applied to a damp cloth or paper towel. Petroleum based solvents **will** damage the console.

Machine Exterior

- 1. The machine's exterior should be cleaned with a non-abrasive water based detergent applied to a damp cloth.
- 2. Always be careful when cleaning around safety warning labels. Use limited amounts of cleaners in those areas.

4.0 Schematics & Parts Lists

4.1 Main Assembly - Front View

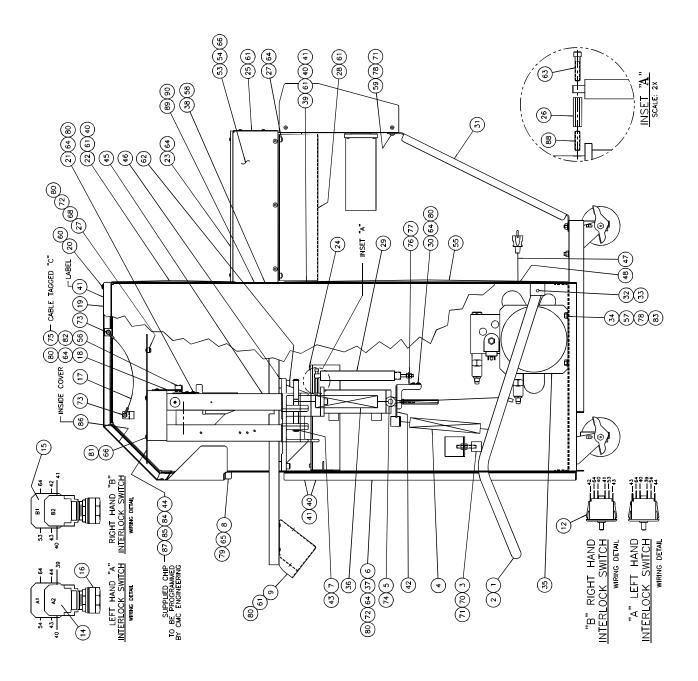


Main Assembly - Front View - 43000 Sht. 1 of 4, Rev. H

PAK NO.	DESCRIPTION OF ACCESSORIES		OZ	. PART NO.	DESCRIPTION OF ACCESSORIES	5
43074	ROD - CLAMP CYLINDER	-	38	E-2796	TERMINAL PROTECTION - MAIN DISCONNECT SW.	2
41033	BRACKET - HYD. UP PROX.	-	39	E-2196	PLUG - HOLE	2
			40	H-6910-102404	SCREW - #10-24 x 1/2 BUTTON HEAD	4
10082	CLAMP ROD ASM	2	14	H-6918-608	SCREW - 3/8-16 x 1" SOCKET HEAD	22
H-237-4	ELBOW - 90° PIPE TO TUBE	4	42	H-6938-632	SCREW - 3/8-16 x 2" CUP POINT SET	2
H-211-1	CYLINDER - CLAMP	-	43	H-6909-506	SCREW - 5/16-18 x 3/4 FLAT HEAD	4
10001-1	BASE	_	44	H-6910-403	SCREW - 1/4-20 x 3/8 BUTTON HEAD	4
			45	H-6913-406	SCREW - 1/4-20 x 3/4 HEX HEAD	2
10002-2	GUIDE - FRONT	2	46	H-6913-508	SCREW - 5/16-18 x 1" HEX HEAD	12
41120–3	KNIFE LATCH ASSEMBLY	-	47	H-6922-44012	SCREW - #4-40 x 3/4 FLAT HEAD	4
10010	NId	2	48	H-6922-44010	SCREW - #4-40 X 5/8 FLAT HEAD	2
41008	BRACKET – KNIFE DOWN PROX.	2	49	H-6938-102408	SCREW - #10-24 x 1/2 CUP POINT SET	3
10008	LINK - KNIFE BAR	2	20	H-6918-102406	SCREW - #10-24 x 3/4 SOCKET HEAD	9
43003-1	WARNING PANEL	-	51	H-6894-606	SCREW - 3/8-16 x 3/4 WHIZ LOCK	4
8815	WASHER - KNIFE BOLT	9	52	H-7324-#10	WASHER - #10 INTERNAL TOOTH	14
10004-3	CLAMP	-	53	H-7324-8	WASHER - 1/4 INTERNAL TOOTH	4
EE-2779	LINE LIGHT ASSEMBLY	2	54	H-7327-10	WASHER - 5/16 MEDIUM LOCK	12
EE-3035	CONSOLE ASM CONTROL	-	22	H-7327-12	WASHER - 3/8 MEDIUM LOCK	1
10009	PIN - KNIFE LINK	2	26	H-7324-#6	WASHER - #6 INTERNAL TOOTH	4
10007-2	ARCH	-	57	H-7324 #4	WASHER - #4 INTERNAL TOOTH	9
S-1193-50	RETAINING RING - 1/2	9	58	H-7321-#10	WASHER - #10 PLAIN	2
10003	KNIFEBAR	1	59	H-6423-4	NUT - 1/4-20 HEX (KEP STYLE)	80
H-21S-250-1000	PIN - 1/4 x 1" ROLL	80	9	H-6423-5	NUT - 5/16-18 HEX (KEP STYLE)	12
AA-10018	BRACKET - CYLINDER	-	61	H-6410-6	NUT - 3/8-16 SLOTTED	1
43056	SPACER - TABLE	2	62	H-6423-#4	NUT - #4-40 HEX (KEP STYLE)	80
10064	PIN - KNIFE CYLINDER	1	63	H-6414-8	NUT - 1/2-13 WHIZ LOCK	4
E-2465	SWITCH FACE - MAIN DISCONNECT	1	64	H-6423-#6	NUT - #6-32 HEX (KEP STYLE)	4
E-2464-1	SWITCH - MAIN DISCONNECT	-	92	S-1781-16	LABEL - CAUTION	٠
43030	PULLDOWN - CLAMP	-	99	S-1781-45	LABEL - "PE" PROTECTED EARTH	-
43077	CABLE - FOOT PEDAL	2	67	A-10034	KNIFE	1
43008-1	STAND ASSEMBLY	-	89	S-1694	TIE WRAP – WIRE	2
41014	CASTER - SWIVEL W/ BRAKE	3	69	E-967-1	BULB - LINE LIGHT	REF.
H-210-1	CYLINDER - KNIFE	1	70	43080	COVER - KNIFEBAR ACCESS	1
H-6631-308	PIN - 3/32 × 1" СОПЕR	-	71	H-6910-102404	SCREW- #10-24 X 1/2 BUTTON HD.	4
S-1781-42	LABEL - GROUND SYMBOL	1	72	H-6923-44012	SCREW - #4-40 x 3/4 RD HEAD	2
S-2015	TAPE - REFLECTIVE ALUMINUM	13"	73	S-1694	TYRAP	1
H-6633-718	DINI TANDED	c	7.7	1 1022		

4.2 Main Assembly - Right Side View

43000 Sht. 2 of 4, Rev. N



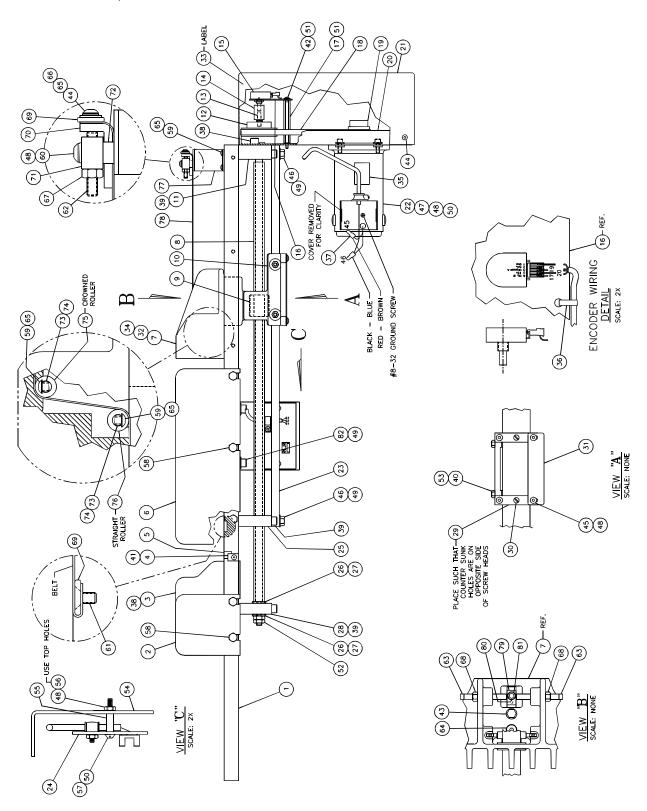
Main Assembly - Right Side View - 43000 Sht. 2 of 4, Rev. N

		DESCRIPTION OF ACCESSORIES	,
			
22			
5			
52			
53	43047	BRACKET - REAR TABLE COVER RH	-
54	43048	BRACKET - REAR TABLE COVER LH	ı
22	43044	COVER - REAR STAND	-
99	H-6923-44012	- #4-40 × 3/	7
57	н-6913-508	SCREW - 5/16-18 x 1" HEX HEAD	4
28	H-6924-004	– #0 × 1/4 R	7
29	H-6910-506	SCREW - 5/16-18 x 3/4 BUTTON HEAD	2
9	H-6910-410	SCREW - 1/4-20 x 1-1/4 BUTTON HEAD	7
61	H-6910-102403	SCREW - #10-24 x 3/8 BUTTON HEAD	22
62	н-6918-608	SCREW - 3/8-16 x 1" SOCKET HEAD	4
63	H-6918-410	SCREW - 1/4-20 X 1-1/4 SOC. HEAD	ı
64	H-6910-102404	- #10-24 × 1/2	16
65	H-6920-103204	SCREW - #10-32 x 1/2 BUTTON HEAD	∞
99	H-6910-404	SCREW - 1/4-20 x 1/2 BUTTON HEAD	01
67			
89	H-6910-102406	SCREW - #10-24 x 3/4 BUTTON HEAD	2
69			
2	н-6938-532	SCREW - 5/16-18 x 2" SOCKET SET	2
7	H-6423-5	NUT - 5/16-18 HEX	9
72	H-6423-#10	NUT - #10-24 HEX	9
73	Н-5247-1024	NUT - #10-24 FLEX-LOCK	4
74	H-6423-4	NUT - 1/4-20 HEX	7
75	H-6423-#4	NUT - #4-40 HEX	7
9/	H-6443-4	NUT - 1/4-28 FLEX-LOCK	ı
77	H-6428-4	NUT - 1/4-28 HEX JAM	
78	н-7327-10	WASHER - 5/16 MEDIUM LOCK	9
79	H-7321-#10	WASHER - #10 PLAIN	14
80	H-7324-#10	WASHER - #10 INTERNAL TOOTH	14
8	н-7324-8	- 1/4 INTERNAL	4
82	H-7324-#4	WASHER - #4 INTERNAL TOOTH	2
83	н-7321-5	R - 5/16 PLAIN	4
9	E-2330	T, METRIC	-
5	E-2330-3	FUSE - 2A T, METRIC "F1" (120V ONLY)	-
ă	E-1075-10SB	- 10A T, "F4 & F7"	2
3	E-1075-15SB	FUSE - 15A T, "F4 & F7" (120V ONLY)	2
98	S-1781-54	LABEL - INTERCONNECTION DIAGRAM	1
82	EE-1766-41	- PROGRAMMABLE	-
88	H-6938-416	SCREW - 1/4-20 X 1" SOC SET	-
83	5177–3		-
8	5177-4	LABEL - UL/CSA LISTING	-

1 43022 1 43022 2 43021 3 40016-3 4 4 17136-4 5 5 1884 6 43043 7 5-1193-50 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 43043 9 6 6 6 43043 9 6 6 6 6 43043 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	TAPE -	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
40011 40016-3 4136-4 43043 43043 43041 43040 43041 43065 5-1781- 6-178	MOUNT — VARASIVE MOUNT — VARANION EVERDIT — 1/4 COVER — FROM STAND RETAINING RING — 1/2 EXIT HINGE SWITCH — COVER INTERLOCK SWITCH — COVER INTERLOCK CONTACT BLOCK — SWITCH, COVER — TOP COVER — TOP COVER — TOP COVER — COVER — REAR STAND (TOP	20° 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
40016-3 5-1136-4 42043 41007 10007-5 10007-9 40016 40019	MOUNT - VIBEATION FYEROLT - 1/4 FYEROLT - 1/2 EXTH COVER - FROMT STAND RETAINING RING - 1/2 EXTH HINDE SWITCH ASSEMBLY - CUT SWITCH - COVER INTERLOCK SWITCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, SWITCH BODY WITH BUTTON CONER - TOP COVER BRACKET - CLAMP UP PRO COVER - TOP COVER - COVER	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
47136-4 45-11834 41007 41007 41007 41007 4204 4204 4304 4304 4304 4304 4304 4304	SPRING - PEDAL RETURN COVER - FRONT STAND RETAINING RING - 1/2 EXT HINGE SWITCH ASSEMBLY - CUT SWITCH - COVER INTERLOCK SWITCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, COVER - TRAN SAE PI COVER - REAR STAND (TOP	1
S-1884 43043 430443 430443 430443 430443 430441 430641 430641 430641 430641 430641 430641 430641 430641 430641 430641 430641 430641 430661 43	EYEBOLT — 1/4 COVER — FROMÍ STAND HINGE HINGE SWITCH ASSEMBLY — CUT SWITCH ASSEMBLY — CUT SWITCH BLOCK — SWITCH, CONTACT BLOCK — SWITCH, COVER — TOP WASHER — 1/4 DA, SAE PI WASHER — 1/4 DA, SAE PI WASHER — 1/4 DA, SAE PI ACTUATIOR — CLAMP UP PRO COVER — TOP	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
43043 S-1193- E-1830- E-1839- E-1839- E-1839- E-1839- 43040 43040 43041 43041 43043 43043 43043 43043 43043 43043 43043 43043 43043 43043 43043 43043 43063 5-1694- 43063 43063 43063 43063 43063 43063 43063 43063 43063 6-1152- 8-1064- 43063 43063 8-1064- 43063 8-1064- 43063 8-1064- 43063 8-1064- 43063 8-1064- 8-1066- 8-1067- 8-1060-	COVER – FRONT STAND RETAINING RING – 1/2 EXTR HINGE SWITCH ASSEMBLY – CUT SWITCH – COVER INTERLOCK SWITCH – COVER INTERLOCK CONTACT BLOCK – SWITCH, CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON COVER – TOP WASHER – 1/4 DIA, SAE PI WASHER – 1/4 DIA, SAE PI WASHER – 1/4 DIA, SAE PI COVER – TOP COVER – REAR STAND (TOP	1
E-183- 41007 E-2851- E-1839- E-1839- E-1839- E-1839- 43033 43034 43041 43041 43041 43042 43042 43043 43043 43043 43043 43043 43043 43043 43043 43043 43065 E-1781- E-1	HINGE SWITCH ASSEMBLY - CUT SWITCH ASSEMBLY - CUT SWITCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, SWITCH BODY WITH BUTTON CABLE - TOP COVER BRACKET - CLAMP UP PRO COVER - TOP COVER - TOP COVER - CLAMP UP PRC COVER - REAR STAND (TOP	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1
E-2457- E-1839- E-1839- E-1839- E-1839- E-1839- 43040 43030 43049 43049 43049 43049 43049 43049 43049 43049 43049 43050 E-1152- E-1152	HINGE SWITCH ASSEMBLY – CUT SWITCH – COVER INTERLOCK CONTACT BLOCK – SWITCH, CONTACT BLOCK – SWITCH, CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON CABLE – TOP COVER BRACKET – CLAMP UP PRO COVER – 1/4 DA. SAE PI MACHER – 1/4 DA. SAE PI ACTATOR – CLAMP UP PRO COVER – REAR STAND (TOP	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E-2457- E-1839- E-1839- E-1839- E-1839- E-1839- 43030 43031 43041 43041 43042 43043 43043 43043 43073- H-477-1	SWITCH ASSEMBLY – CUT SWITCH – COVER INTERLOCK CONTACT BLOCK – SWITCH, CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON CABLE – TOP COVER BRACKET – CLAMP UP PROD COVER – TOP WASHER – 1/4 DM, SAE PI WASHER – 1/4 DM, SAE PI ACTUATOR – CLAMP UP PRE ACTUATOR – CLAMP UP PRE COVER – REAR STAND (TOP	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E-2457- E-1839- E-1839- E-1839- E-2074 45031 45040 45041 45041 45041 45042 45041 45042 45061 45063 45061 45063 45061 47156- 47156- 47156- 47156- 47156- 47156- 47156- 47166- 47166- 47166- 47066 E-1781- 47166- 4716- 47166	SWTCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, SWITCH BODY WITH BUTTON CABLE - TOP COVER BRACKET - CLAMP UP PRO COVER - TOP WASHER - 1/4 DM, SAE PI WASHER - 1/4 DM, SAE PI ACTUATOR - CLAMP UP PRC COVER - REAR STAND (TOP	2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1
E-2457- E-1839- E-1839- E-1839- 43030- 43030- 43041 43041 43041 43041 43043 43063 E-1152- 5-1694- 43063 43063 43063 43063 43063 43063 43063 43063 43063 43063 43063 43063 43063 6-1152- 5-1781- 1130- 5-1781-	SWITCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, SWITCH BODY WITH BUTTON CABLE - TOP COVER - TOP WASHER - 1/4 DA, SAE PI WASHER - 1/4 DA, SAE PI WASHER - COVER - COVE	2 REF REF - 1 - 1 - 2 - 1 - 1 - 2 - 1 - 1 - 1 - 1
E-2457- E-1839- E-1839- E-2074 43040 43041 43041 43041 43041 43041 43042 43043 43065 E-1781-	SWITCH - COVER INTERLOCK CONTACT BLOCK - SWITCH, CONTACT BLOCK - SWITCH, SWITCH BODY WITH BUTTON CABLE - TOP COVER BRACKET - CLAMP UP PRO COVER - TOP WASHER - 1/4 DM, SAE PI WASHER - 1/4 DM, SAE PI ACTUATIOR - CLAMP UP PRO COVER - REAR STAND (TOP	2 REF REF - 1 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1
E-1839- E-1839- E-2074 42040 43033 43040-1 43049 43049 43049 43049 43040 43040 43040 43040 43040 43040 43040 43040 43040 43040 43040 43060 6-1152- E-1152- 1407-2 H-477-1 H-477-2 H-477-1 H-477-2 H-47	CONTACT BLOCK – SWITCH, CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON CABLE – TOP COVER BRACKET – CLAMP UP PRO COVER – TOP ANSHER – 1/4 DM, SAE PI ACTATOR – CLAMP UP PRE COVER – REAR STAND (TOP	REF REF 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1
E-1839- E-2074 45040 45030 45030 45030 45030 45034 45041 45041 45041 45042 45043 45042 45043 45042 45043 45042 45042 45042 45043 45042 450	CONTACT BLOCK - SWITCH,	REF REF 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E-1839- E-2074 43040 43040 43041 43054 43057-1 43054 43061 43060 43063 43061 43063 43063 43063 43063 43063 43063 43063 43063 43064 43066 E-1152- E-1152- 43065 5-1781- E-1156- 43065 5-1781- E-1156- 43065 5-1781- E-1781- E-1	CONTACT BLOCK – SWITCH, SWITCH BODY WITH BUTTON CABLE – TOP COVER BREACKE – CLAMP UP PRO) COVER – TOP WASHER – 1/4 DM, SAE PI ACTUATOR – CLAMP UP PRE ACTUATOR – CLAMP UP PRE COVER – REAR STAND (TOP	REF 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 1
E-2074 42040 42040 42041 4207-1 4207-1 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 4205-9 42065	CABLE	RE-
43040 42033 42033 42033 42034 42041 43041 43041 43040 6 E-1152 5 -1694 43042 43042 43043 43043 43063 43064 43065 6 E-1787 6 F-1048 6 F-1048 6 F-1048 6 F-1068 6 F-106	CABLE – BRACKET COVER – WASHER ACTUATOR COVER – COVER –	2 2 2 -
45035 4507-1 47321- 45044 45049 45049 45049 5-1694- 43050 43050 43061 43073 43073 43073 43073 43073 43073 43073 43073 4308 4308 4308 4308 4308 4308 4308 430	BRACKET COVER - WASHER ACTUATOF COVER - COVER -	2 2 -
43007-1 H-7321- 43034 43049 5-1694- 43050 5-1694- 43073 4307- 4306- 4306- 4307- 4306- 4306- 4307- 4306- 4306- 4306- 4307- 4306- 4	COVER - WASHER ACTUATOF COVER - COVER -	- 2 2 -
H + 7321 - 45034 45041 45041 45040 5-1694- 43060 5-1694- 43061 45061 45062 45063 45063 47136-3 47136-3 47136-3 47186-3 5-1781- 5-1	WASHER ACTUATOF COVER -	2
43034 43041 43041 43050 5-1694- 43050 6-1152- 5-1694- 43042 43043 43061 43063 43061 43065 6-1152- 6-11	OR - CLAMP - REAR STAN - REAR TABL	
43041 43049 43049 43050 E-1152- 5-1694- 43042 43042 43043 43051 43061 43023 43024 H-477-2 H-477-2 H-477-1 43065 5-1781- 5-1781	- REAR - REAR	2 -
45049 S-1694- S-1694- E-1152- E-1152- 43043 43043 43043 44073- H-477-2 H-4	ı	- 2 -
S - 1694- 43050 E - 1152- 5 - 1694- 43042 43043 43073 43073 43073 43073 43073 43073 43073 43073 43073 4306 4306 5 - 1781- 5 - 1781- 5 - 1781- 5 - 1781- 6 - 10002-3 10002-3		2
43050 E-1152- 5-1084- 43042 43042 43043 43043 43054 43054 H-477-1 H-477-1 H-477-1 H-477-1 F-1136- 5-1781- S-1781- S-17	1 CABLE TIE	
E 1152— S-1694— 43073 43061 43061 43061 43061 43061 43061 43061 43062 43062 47136-3 67	COVER	
S - 1694- 43042 43073 43073 43073 43081 43082 43082 43084 44087 44130 42085 5 - 1781-	STAND	1
43042 43051 43051 43054 43024 43024 43024 43024 44172 11152 41130 43056 43066 47086 47086 47086 47086 47086 47086 47086 47086 47086 47086 47086 47086	2 CABLE ΠΕ — #10	4
43073 43081 43035 43035 43024 43024 447772 H-47772 H-47772 H-47772 H-47772 H-47772 H-47772 H-47772 H-47772 11360 4306 5-1781- 5-1781- 5-1781- 5-1781- 6-1786 EE-2786 10002-3	COVER - LEADSCREW	1
43061 43035 43023 43023 43024 A-10642 H-477-2 H-477-1 H-477-1 H-477-1 H-477-1 F-1136-3 43065 S-1781- S	DAMPER ASSEMBLY	1
43025 43027 43027 43026 43046 H-477-2 H-470-8	BRACKET - CLAMP DAMPER	1
43023 43024 H-47042 H-477-1 H-477-1 47136-3 E-1152- 41130 43065 43076 43076 43076 10002-3 10002-3	SUPPORT - TABLE	1
4 3024 A-10042 H-477-2 H-477-2 H-477-2 H-477-2 H-47136-3 E-1130 A306 A306 A306 A3076 H-4006 A3076 BE-2765-2 10002-3 BE-2765-2	PIN - FOOT PEDAL	2
A-10042 H-477-2 H-477-2 H-477-2 H-477-2 47136-3 43065 S-1781- S-1781- S-1781- S-1781- S-1780- 10002-3 EE-2765-	HAIRPIN COTTER	2
H+477-2 H-477-1 H-477-1 47156-3 43065 S-1781-	NUT	4
H-477-1 47136-3 E-1152- 41130 43065 S-1781- S-1781- 43076 47086 EE-2765- 10002-3 20002-3 2002-3 2002-3	HYDRAULIC POWER UNIT - 208/230 V	-
47136-3 E-1152- 41130 43065 S-1781- S-1781- 43076 47086 EE-2765- 10002-3 20075-9	HYDRAULIC	
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43065 5-1781- 5-1781- 43076 47086 EE-2765- 10002-3		, ·
4.005 S-1781- S-1781- 4.3076 4.7086 EE-2765- 10002-3 20075-9	3	- 4
S-1781- S-1781- 43076 47086 EE-2765- 10002-3 20075-9	COVER	7
43076 47086 47086 EE-2765- 10002-3 20075-9	LABEL - CRUSH	٥ .
++++	11 LABEL = SHOCK CAUTION	٠,
++++	טווייים - אונועשטור טוי	- 0
+++	PIN = DELLCAMA	7
++	GUIDE - REAR	2
EF 2770	SPACER	4
EL-2//0	POWER CORD ASSEMBLY - 230 VOLT 60 HZ.	
47 EE-2778-1	POWER CORD ASSEMBLY - 50 H	-
\dashv		
48 S-1350-16	16 BUSHING — STRAIN RELIEF	-

4.3 Main Assembly - Table Asm. View

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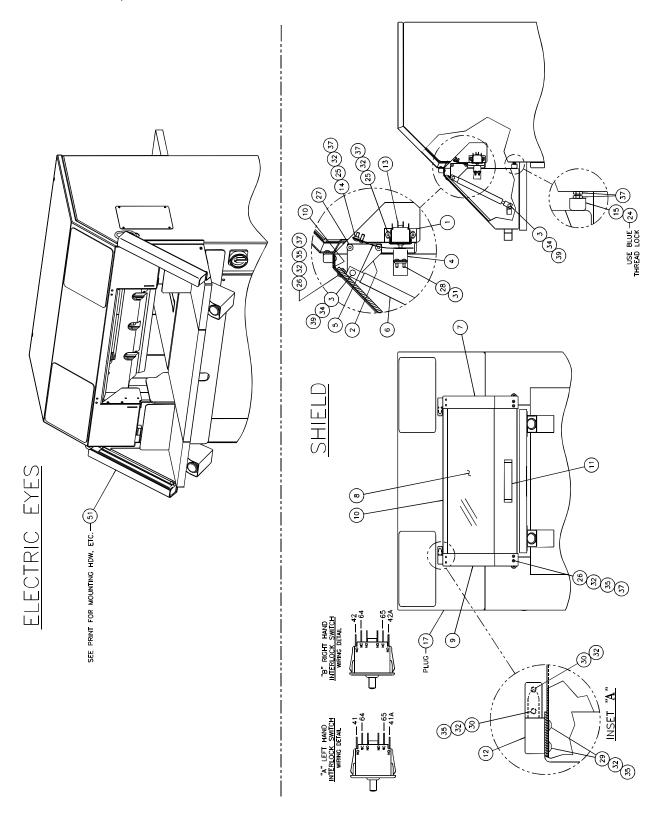
Main Assembly - Table Asm. View - 43000 Sht. 3 of 4, Rev. K

9	H	CHICOTOCA TO MOTERIACOTA	Š
SO.	PAKI NO.		5
42	H-6910-83203	SCREW - #8-32 x 3/8 BUTTON HEAD	2
43	H-6894-606	SCREW - 3/8-16 x 3/4 WHIZ LOCK	-
44	H-6910-102403	SCREW - #10-24 x 3/8 BUTTON HEAD	9
45	H-6910-406	SCREW - 1/4-20 x 3/4 BUTTON HEAD	4
46	H-6913-608	SCREW - 3/8-16 x 1" HEX HEAD	2
47	H-6918-406	SCREW - 1/4-20 x 3/4 SOCKET HEAD	4
48	H-7324-8	WASHER - 1/4 INT. TOOTH	12
49	H-7319-6	WASHER - 3/8 PLAIN	4
20	H-7321-4	WASHER - 1/4 PLAIN	9
51	H-7324-#8	WASHER – #8 INT. TOOTH	4
52	H-6428-6	NUT - 3/8-24 HEX JAM	2
53	H-6428-4	NUT - 1/4-28 HEX JAM	2
54	1-040-1	BRACKET - PRESET	-
22	E-1152-12	SPACER	2
99	H-6424-4	NUT - 1/4-20 HEX JAM	2
22	H-6918-410	SCREW - 1/4-20 X 1-1/4 SOC CAP	2
58	H-6913-606	SCREW - 3/8-16 x 3/4 HEX HEAD	10
29	H-6910-102404	SCREW - #10-24 X 1/2 BUT HD	œ
09	H-6910-410	SCREW - 1/4-20 X 1-1/4 BUT HD	2
61	H-6909-102403	SCREW - #10-24 X 3/8 FLT HD	2
62	H-6938-424	SCREW - 1/4-20 X 1-1/2 SOC SET	2
63	Н-6931-624	SCREW - 3/8-16 X 3" SQUARE HD. SET	2
64	H-5254-804	SCREW - 1/2 X 1/2 SOC SHOULDER	٦
65	H-7324-#10	WASHER - #10 INT TOOTH	10
66	H-7321-#10	WASHER - #10 PLAIN	2
67	H-6424-4	NUT - 1/4-20 HEX JAM	2
68	H-6424-6	NUT - 3/8-16 HEX JAM	2
69	43103	BELT CLAMP	2
70	44157	BRACKET - BELT ADJ.	-
71	44156	BELT ADJUSTMENT BLOCK	-
72	E-1152-93	SPACER	2
73	47597	PIN - PULLEY	2
74	S-1073-25	RETAINING RING - 1/4 EXTERNAL	4
75	47588	CROWNED PULLEY	-
76	47601	STRAIGHT PULLEY	٦
77	44155	BRACKET - BELT	-
78	43104	BELT	-
79	43107	BACKGAGE BLOCK	-
80	H-21S-187-0750	ROLL PIN - 3/16 X 3/4	-
81	H-6918-616	SCREW - 3/8-16 X 2" SOC HEAD CAP	-
82	H-6918-605	SCREW - 3/8-16 x 5/8 SOCKET HEAD	2

10025-2 TABLE DECOMPTION OF ACCOUNTY 10025-2 TABLE 10025-2 TABLE 10025-2 TABLE 10025-2 TABLE 10025-2 TABLE 10031 STOP - CUT STICK 13059-1 SIDEGUIDE - FRONT 10031 BACKGAUGE FRONT 10031 BACKGAUGE REAR PILLOW BLOCK ASSEMBLY 10027-1 BRACKET - BACKCAGE 10027-1 BRACKET - BACKCAGE 10027-1 BRACKET - BACKCAGE BRACKET 10028-2 COUPLINC - ENCODER MOUNT 17954 BELT - TIMING 13029 PLATE - ENCODER MOUNT 13029 PLATE - BACKCAGE BRACKET 10026-5 STANDOFF - 3" BEARNO - THRUST 10026-5 PILLOW BLOCK - MIDDLE 1300-2 BEARNO - THRUST 1300-3 STRAP SCREW - NYLON 14264 POLYETHYLENE TAPE 13060 STRAP SCREW - NYLON 14264 POLYETHYLENE TAPE 1237-6 WAND - PRESET 10065 PIN - BACKCAUGE 14691-1 TYRAP E-1237-6 WIRE NUT TYRAP E-1237-6 WIRE NUT TYRAP E-1237-6 WIRE NUT TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 1/4-28 × 1" BRASS H-690-6 SCREW - 1/4-28 × 1" BRASS H-690-6 SCREW - 1/4-28 × 1" BRASS H-690-6 SCREW - 1/4-28 × 1" BRASS L-600-6 SCREW - 1/4-28 × 1" B	2	ON TAM	SEIGUSSEUD DE VOIESIES	5
10025-2 TABLE 43057 RH SIDEGUIDE - FRONT 43058 LH SIDEGUIDE - FRONT 5-6-27B STOP - CUT STCK 4166 CUT STICK 43059-1 SIDEGUIDE - REAR 10031 BACKGAUGE 43064 LEADSCREW 43065 NUT 43068 REAR PILLOW BLOCK ASSEMBLY 43069 PULLEY - LEADSCREW 43069 PULLEY - LEADSCREW 43069 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER MOUNT E-1467 BELT - TIMING 43029 PINTE - ENCODER MOUNT 43029 PINTE - MOTOR MOUNT 43063 PULLEY - MOTOR MOUNT 43064 BELT - TIMING 43029 POLLEY - MOTOR MOUNT 43060 STRAP 5-1300-2 BEARING -	į	- 1	DESCRIPTION OF	5
43057 RH SIDEGUIDE – FRONT 43058 LH SIDEGUIDE – FRONT 5-6-27B STOP – CUT STICK 4166 CUT STICK 43059-1 SIDEGUIDE – REAR 10031 BACKGAUGE 43064 LEADSCREW 43065 NUT 10027-1 BRACKET – BACKGAGE 43065 NUT 43067 PULLEY – LEADSCREW 47053 PULLEY – LEADSCREW 47054 PULLEY – LEADSCREW 47055 PULLEY – LEADSCREW 47056 PULLEY – LEADSCREW 47057 PULLEY – LEADSCREW 43068 PLATE – ENCODER MOUNT 43069 PLATE – ENCODER MOUNT 4307 BELT – TIMING 4308 PULLEY – MOTOR MOUNT 4308 POLLEY – MOTOR MOUNT 4308 POLLEY – BACKGAGE BRACKET EE-1600-166 MOTOR – 180 VOLT D.C. (230 10026-5 PILLOW BLOCK – MIDDLE 5-1300-2 BEARING – THRUST 4-3060 STRAP 5-1300-2 STRAP	-	10025-2		-
43058 LH SIDEGUIDE – FRONT 5-6-27B STOP – CUT STICK 4106 CUT STICK 43059-1 SIDEGUIDE – REAR 10031 BACKCAUGE 43004 LEADSCREW 43065 NUT 10027-1 BRACKET – BACKCAGE 43065 NUT 43067 PULLEY – LEADSCREW 43068 PULLEY – LEADSCREW 42069 PIN – 1/4 x 1" ROLL 43067 PULLEY – LEADSCREW 43068 PULLEY – LEADSCREW 43069 PINI – 1/4 x 1" ROLL 43060 PINI – 1/4 x 1" ROLL 43060 PINI – 1/4 x 1" ROLL 43063 PULLEY – LEADSCREW 43064 BELT – TIMING 43065 POLLEY – MOTOR 10028-2 GUIDE – BACKCAGE BRACKET E-1600-166 MOTOR – 180 VOLT D.C. (230 10026-5 WALOW BLOCK – MIDDLE 5-1206-5 WASHER – THRUST 4-3060 STRAP 5-1300-2 BEARING – THRUST 4-3060 STRAP	2	43057	SIDEGNIDE -	٦
5-6-27B STOP - CUT STICK 4166 CUT STICK 43059-1 SIDECUIDE - REAR 10031 BACKGAUGE 43004 LEADSCREW 43005 NUT 10027-1 BRACKET - BACKGAGE 43065 NUT A3067 PULLEY - LEADSCREW H-215-250-1000 PINI - 1/4 x 1" ROLL 47053 COUPLING - ENCODER BRIVE E-2467 ENCODER A3029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 43029 POLLEY - MOTOR 10028-2 CUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PRILOW BLOCK - MIDDLE 5-1206-5 WASHER - THRUST 4-3060 STRAP 5-1344-1	3	43058	ı	1
4166 CUT STICK 43059-1 SIDEGUIDE - REAR 10031 BACKGAUGE 43004 LEADSCREW 43005 NUT 10027-1 BRACKET - BACKGAGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-215-250-1000 PINI - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 43029 PLATE - MOTOR MOUNT 43029 PLATE - MOTOR MOUNT 43029 POLLEY - MOTOR 10028-2 CUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PILLOW BLOCK - MIDDLE 5-1205-3 WASHER - THRUST 4-3060 STRAP 5-1304-1 SCREW - NYLON	4	5-6-27B	- cuī	2
43059-1 SIDECUIDE - REAR 10031 BACKGAUGE 43004 LEADSCREW 43005 NUT 10027-1 BRACKET - BACKGGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-215-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 5740 10028-2 600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PRILCOW BLOCK - MIDDLE 5-1285-3 WASHER - THRUST 5-1300-2 BEARING - THRUST 4-3060 STRAP 5-1344-1 SCREW - NYLON 4-3	2	4166	CUT STICK	1
10031 BACKGAUGE 43004 LEADSCREW 43005 NUT 10027-1 BRACKET - BACKGGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-215-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 43029 PRACKET - MOTOR MOUNT 43029 PRACKET - MOTOR MOUNT 5-1200-166 MOTOR - 180 VOLT D.C. (230 10026-5 PRILCOW BLOCK - MIDDLE 5-1300-2 BEARING - 1HRUST 4-3060 STRAP 5-1304-1 SCREW - NYLON 4-3060 STRAP 5-1344-1 SCREW - NYLON 4-	9	43059-1	ı	2
43004 LEADSCREW 43005 NUT 10027-1 BRACKET - BACKCAGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-215-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 43028 COVER - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PILLOW BLOCK - MIDDLE 5-1205-3 WASHER - THRUST 5-1206-5 PILLOW BLOCK - MIDDLE 5-1206-5 WASHER - THRUST 43060 STRAP 5-1304-1 SCREW - NYLON 43050 STRAP 5-1304-1 SCREW - NYLON 43050 PRISTALL ELECTRICAL SHOCK 5-1344-1 TYRAP 5-1344-1 TYRAP	7	10031	BACKGAUGE	1
43005 NUT 10027-1 BRACKET - BACKCAGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-215-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43027 BELT - TIMING 43028 COVER - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PILLOW BLOCK - MIDDLE S-1205-3 WASHER - THRUST S-1300-2 BEARING - THRUST 43060 STRAP S-1304-1 SCREW - NYLON 43050 STRAP S-1304-1 SCREW - NYLON 43050 PINI - BACKGAUGE S-1344-1 SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 42064 POLYETHYLENE TAPE <	œ	43004	LEADSCREW	1
10027-1 BRACKET - BACKGAGE 43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW H-21S-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT 43029 PLATE - ENCODER MOUNT 43029 PLATE - MOTOR MOUNT 43028 COVER - BACKGAGE BRVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 5-1200-2 BEARING - THRUST 43060 STRAP 5-1300-2 BEARING - THRUST 43050 STRAP 5-1304-1 SCREW - NYLON 43050 STRAP 5-1344-1 SCREW - NYLON 43050 STRAP 5-1341-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION	6	43005	TUN	1
43068 REAR PILLOW BLOCK ASSEMBLY 43062 PULLEY - LEADSCREW 47053 COUPLING - ENCODER DRIVE 6-2467 ENCODER 43029 PLATE - ENCODER MOUNT 6-152-60 STANDOFF - 3" 7954 BELT - TIMING 43029 PLATE - MOTOR MOUNT 43028 COVER - BACKGAGE BRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE 5-1205-3 WASHER - THRUST 43060 STRAP 5-1300-2 BEARING - THRUST 43060 STRAP 5-1344-1 SCREW - NYLON 43050 STRAP 5-1381-16 LABEL - CAUTION 4726-4 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION 4726-4 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION 4726-4 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION <	10	10027-1	1	1
43062 PULLEY - LEADSCREW H-21S-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43028 PULLEY - MOTOR MOUNT 43028 COVER - BACKGAGE BRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1205-3 WASHER - THRUST 43060 STRAP S-1300-2 BEARING - THRUST 43060 STRAP S-1304-1 SCREW - NYLON 43050 STRAP S-1381-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-56 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT	11	43068		1
H-21S-250-1000 PIN - 1/4 x 1" ROLL 47053 COUPLING - ENCODER DRIVE E-2467 ENCODER 43029 PLATE - ENCODER MOUNT E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43023 PULLEY - MOTOR MOUNT 43028 COVER - BACKGAGE BRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET E-1600-166 MOTOR - 180 VOLT D.C. (230 10026-5 MOTOR - 180 VOLT D.C. (230 5-1295-3 WASHER - THRUST 5-1200-2 BEARING - THRUST 43060 STRAP 5-1300-2 BEARING - THRUST 43060 STRAP 5-1344-1 SCREW - NYLON 43050 STRAP 5-1381-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION 47264 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION 47264 POLYETHYLENE TAPE 5-1781-50 LABEL - CAUTION	12	43062	1	ı
47053 COUPLING - ENCODER DRIVE 43029 ENCODER 43029 PLATE - ENCODER MOUNT E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43023 PULLEY - MOTOR MOUNT 43028 COVER - BACKGAGE BRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 COUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1300-2 BEARING - THRUST 43060 STRAP S-1306-1 SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 4706-5 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 4726-4 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION 4726-4 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION B-1606 SCREW - 3/4 SOCK H-6918-606 SCREW - 3/8-10 x 2-3/4 SOCK <	13	-250-		1
E-2467 ENCODER 43029 PLATE - ENCODER MOUNT E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43053 PULLEY - MOTOR 43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1205-3 WASHER - THRUST S-1300-2 BEARING - THRUST 43060 STRAP S-1304-1 SCREW - NYLON 43050 STRAP S-1381-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-56 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 2-3/4 SC H-6918-606 SCREW - 3/8-16 x 2-3/4 SC H-6918-607 SCREW - 1/4-28 x 1" BRASS H-6918-607 SCREW - 1/4-28 x 1" BRA	14	47053	ı	1
43029 PLATE - ENCODER MOUNT E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43063 PULLEY - MOTOR 43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 CUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1205-3 WASHER - THRUST S-1300-2 BEARING - THRUST 43060 STRAP S-1304-1 SCREW - NYLON 43050 STRAP S-1381-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1781-50 LABEL - ELECTRICAL SHOCK S-1781-50 LABEL - ELECTRICAL SHOCK S-184-1 TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 2-3/4 SC H-6918-622 SCREW - 1/4-28 x 11	15	E-2467	ENCODER	1
E-1152-60 STANDOFF - 3" 7954 BELT - TIMING 43063 PULLEY - MOTOR MOUNT 43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 STRAP S-1300-2 BEARING - THRUST 43060 STRAP S-1344-1 SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 42060 STRAP S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-622 SCREW - 1/4-28 x 1" BRASS H-6927-4-16 SCREW - 1/4-28 x 1" BRASS	16	43029	- ENCODER	1
7954 BELT - TIMING 43063 PULLEY - MOTOR 43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 STRAP S-1300-2 BEARING - THRUST 43050 STRAP STRAP SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 43055 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION F-1781-50 LABEL - ELECTRICAL SHOCK S-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-605 SCREW - 3/8-16 x 2-3/4 SC H-6918-605 SCREW - 1/4-28 x 11 BRASS LABEL - SCREW - 1/4-28 x 11 BRASS	17	E-1152-60	ı	2
43063 PULLEY - MOTOR 43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 STRAP FRONT PILLOW BLOCK ASSEMBLY 43060 STRAP S-1344-1 SCREW - NYLON 43032 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-606 SCREW - 3/8-16 x 2-3/4 SC H-6918-607 SCREW - 1/4-28 x 1" BRASS H-6907-4-416 SCREW - 1/4-28 x 1" BRASS	18	7954		1
43027 BRACKET - MOTOR MOUNT 43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1205-3 WASHER - THRUST 43069 STRAP 7-1344-1 SCREW - NYLON 43050 STRAP S-1344-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CALTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CALTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-622 SCREW - 3/8-16 x 2-3/4 SC H-6918-622 SCREW - 1/4-28 x 1" BRASS H-6907-4-416 SCREW - 1/4-28 x 1" BRASS	19	43063	1	1
43028 COVER - BACKGAGE DRIVE E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 STRAP FRONT PILLOW BLOCK ASSEMBLY 43060 STRAP S-1344-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-606 SCREW - 3/8-16 x 2-3/4 SC H-6918-622 SCREW - 1/4-28 x 1" BRASS LAGON 63204 SCREW - 1/4-28 x 1" BRASS	20	43027	- MOTOR	1
E-1600-166 MOTOR - 180 VOLT D.C. (230 10028-2 GUIDE - BACKGAGE BRACKET EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 FRONT PILLOW BLOCK ASSEMBLY 43060 STRAP S-1944-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SOCK H-6918-605 SCREW - 3/8-16 x 2-3/4 SC H-6918-605 SCREW - 1/4-28 x 1" BRASS H-6907-4-416 SCREW - 1/4-28 x 1" BRASS	21	43028	- BACKGAGE	1
10028-2 GUIDE - BACKCAGE BRACKET 10026-5 PILLOW BLOCK - MIDDLE 10026-5 PILLOW BLOCK - MIDDLE 10026-5 PILLOW BLOCK - MIDDLE 10026-2 PILLOW BLOCK - MIDDLE 10069-2 PILLOW BLOCK - MIDDLE 10069-2 PILLOW BLOCK ASSEMI 10065 PILLOW BLOCK ASSEMI PIL	22	E-1600-166	- 180 VOLT D.C.	1
EE-1688-1 PRESETTER ASSEMBLY 10026-5 PILLOW BLOCK - MIDDLE S-1295-3 WASHER - THRUST 43069 SEARING - THRUST 43060 STRAP S-1944-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION F-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6974-4106 SCREW - 3/8-16 x 2-3/4 H-69074-4106 SCREW - 14-28 x 11 BRA	23	10028-2	- BACKGAGE	1
10026-5 PILLOW BLOCK - MIDDLE	24	EE-1688-1		REF.
S-1295-3 WASHER - THRUST S-1300-2 BEARING - THRUST 43069 FRONT PILLOW BLOCK ASSEMI 43060 STRAP S-1944-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION 47264-1 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6918-622 SCREW - 14-28 x 11 BRA H-6907-4116 SCREW - 14-28 x 11 BRA L-6000-63204 SCREW - 14-28 x 11 BRA	25	10026-5	1	1
S-1300-2 BEARING - THRUST 43069 FRONT PILLOW BLOCK ASSEMI 43060 STRAP SCREW - NYLON 43032 NAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP F-1237-6 WIRE NUT F-16918-606 SCREW - 3/8-16 × 2-3/4 H-6974-4116 SCREW - 3/8-16 × 2-3/4 H-6974-4116 SCREW - 144-28 × 11 BRAK H-6474-4116 SCREW - 144-28 ×	26	S-1295-3	ı	4
43069 FRONT PILLOW BLOCK ASSEMI 43060 STRAP S-1944-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - CAUTION S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6974-416 SCREW - 1/4-28 x 11 BRA L-6000-6324 SCREW - 1/4-28 x 11 BRA	27	S-1300-2	1	2
43060 STRAP SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE 5-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE 5-1781-50 LABEL - ELECTRICAL SHOCK 6-1237-6 WIRE NUT 17RAP F-1237-6 WIRE NUT 18-6118-606 SCREW - 3/8-16 x 3/4 SO 18-6218-626 SCREW - 3/8-16 x 2-3/4 18-6218-626 SCREW - 3/8-16 x 3-3/8 18-6218-626 SCREW - 3/8-3/8 18-6218-626 SCREW - 3/8-16 x 3-3/8 18-6218-626 SCREW - 3/8-16 x 3-3/8 18-6218-626 SCREW - 3/8-16 x 3-3/8 18-6218-626 SCREW - 3/8-3/8 18-6218-626 SCREW - 3/8-3/8	28	43069		1
S-1944-1 SCREW - NYLON 43032 WAND - PRESET 10065 PIN - BACKGAUGE S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP E-1237-6 WIRE NUT E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-625 SCREW - 3/8-16 x 2-3/4 H-6974-416 SCREW - 144-28 x 1" BRAR LOOK BASING SCREW - 144-28 x 1" BRAR LOO	29	43060	STRAP	2
43032 WAND - PRESET	30	S-1944-1		2
10065 PIN - BACKGAUGE	31	43032	ı	1
S-1781-16 LABEL - CAUTION 47264 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6914-624 SCREW - 1/4-28 x 1" BRA	32	10065	ı	9
47264 POLYETHYLENE TAPE S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP TYRAP H-6918-606 SCREW - 3/8-16 x 3/4 SO	33	S-1781-16	1	1
S-1781-50 LABEL - ELECTRICAL SHOCK S-1694-1 TYRAP E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO	34	47264	POLYETHYLENE TAPE	25"
S-1694-1 TYRAP E-1237-6 WIRE NUT W	35	S-1781-50	- ELECTRICAL	1
E-1237-6 WIRE NUT H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6974-416 SCREW - 1/4-28 x 11 BRM H-6974-416 SCREW - 1/4-28 x 11 B	36	S-1694-1	TYRAP	1
H-6918-606 SCREW - 3/8-16 x 3/4 SO H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6974-416 SCREW - 1/4-28 x 1" BRA L 6000 62004 SCPEW - 1/4-28 x 1" BRA	37	E-1237-6	WIRE NUT	2
H-6918-622 SCREW - 3/8-16 x 2-3/4 H-6974-416 SCREW - 1/4-28 x 1" BRA L GOOD 93204 SCPEW - 48-72 x 1/2 ELM	38	H-6918-606	- 3/8-16 ×	2
H-6974-416 SCREW - 1/4-28 x 1" BRASS TIP	39	H-6918-622	- 3/8-16 ×	9
~ CZ_8# _ WIGOS CCEG 0003 LI	40	H-6974-416	- 1/4-28 x 1"	2
H=0303=0750#	41	H-6909-83204	SCREW - #8-32 x 1/2 FLAT HEAD	2

4.4 Main Assembly - Tilt Shield / Electric Eyes

43000 Sht. 4 of 4, Rev. C



Main Assembly – 43000 Sht. 4 of 4, Rev. C

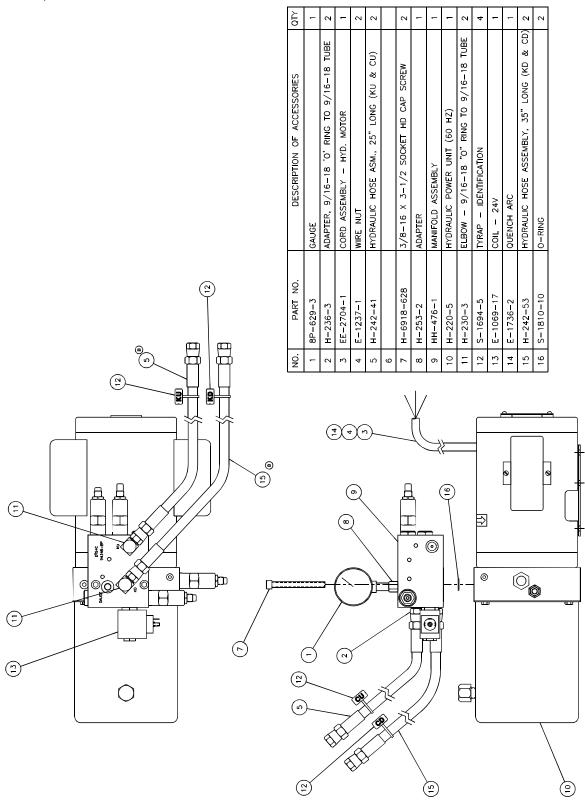
NO.	PART NO.	DESCRIPTION OF ACCESSORIES	QΤ
51	51 K-3030	KIT – ELEC. EYES	-
52			
53			
54			
22			

NO.	PART NO.	DESCRIPTION OF ACCESSORIES	QΠY
Ι.	43045	BRACKET – RH COVER SWITCH	1
_	43078	BRACKET – LH COVER SWITCH	1
c	43064	BRACKET – RH COVER CYLINDER	1
7	43046	BRACKET - LH COVER CYLINDER	1
3	41055	BALL STUD	4
4	43051	ACTUATOR	2
2	43075	STRAP - SWITCHES	2
6	43001	CYLINDER	2
7	43039	FRONT COVER ASM - RH SIDE	1
8	43036-1	WINDOW - TILT COVER	1
9	43038	FRONT COVER ASM - LH SIDE	1
10	43106	SHIELD BRACKET	1
11	26657	HANDLE WITH HARDWARE	1
12	41007	HINGE	2
13	E-2457-6	SWITCH - HOOD INTERLOCK	REF
14	S-1694-2	TYRAP - #10	2
15	A-11074	RUBBER BUMPER	2
16	E-1152-93	SPACER	2
17	E-2196-13	HOLE PLUG	2

24	H-6910-102408	SCREW - #10-24 x 1" BUT HD SOC	2
25	H-6910-102404	SCREW - #10-24 X 1/2 BUT HD SOC	8
26	H-6910-102406	SCREW - #10-24 X 3/4 BUT HD SOC	80
27	H-6910-404	SCREW - 1/4-20 X 3/8 BUT HD SOC	4
28	H-6888-83204	SCREW - #8-32 X 1/2 TAMPER PROOF	4
53	H-6920-103204	SCREW - #10-32 x 1/2 BUT HD SOC	4
30	H-6920-103203	SCREW - #10-32 x 3/8 BUT HD SOC	4
31	H-7324-#8	WASHER - #8 INT. TOOTH	4
32	H-7324-#10	WASHER - #10 INT, TOOTH	24
33			
34	H-7327-10	WASHER - 5/16 MED. LOCK	4
35	H-7321-#10	WASHER - #10 PLAIN	14
36			
37	H-6423-#10	NUT - #10-24 HEX	16
38			
39	H-6423-5	NUT - 5/16-18 HEX	4
40			

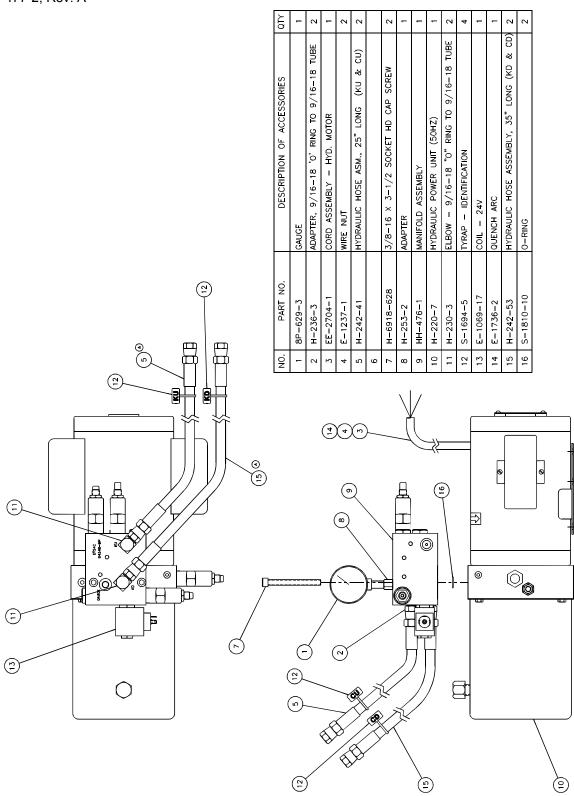
4.5 Hydraulic Power Unit – 60 Hz

H-477-1, Rev. B



4.6 Hydraulic Power Unit – 50 Hz

H-477-2, Rev. A

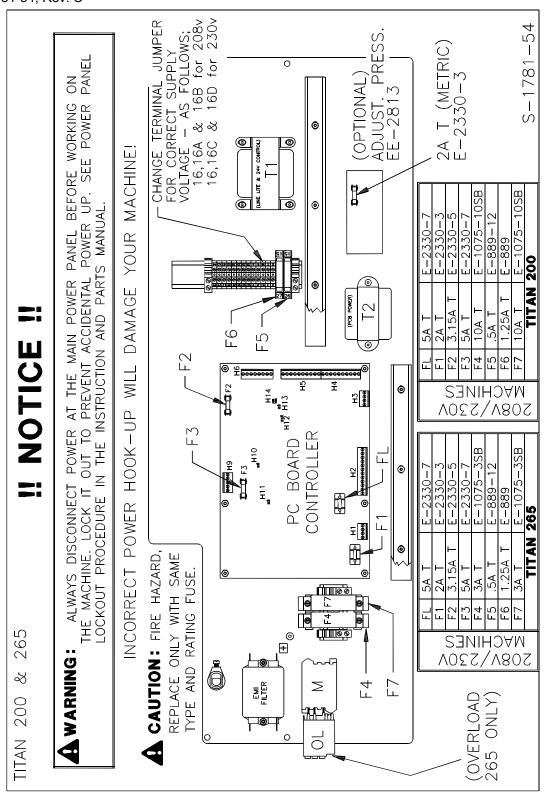


4.7 Hydraulic Manifold Assembly & Schematic

HH-476-1 KNIFE CYLINDER SCHEMATIC CLAMP CYLINDER 1-53/64 **(** · 📵 Щ

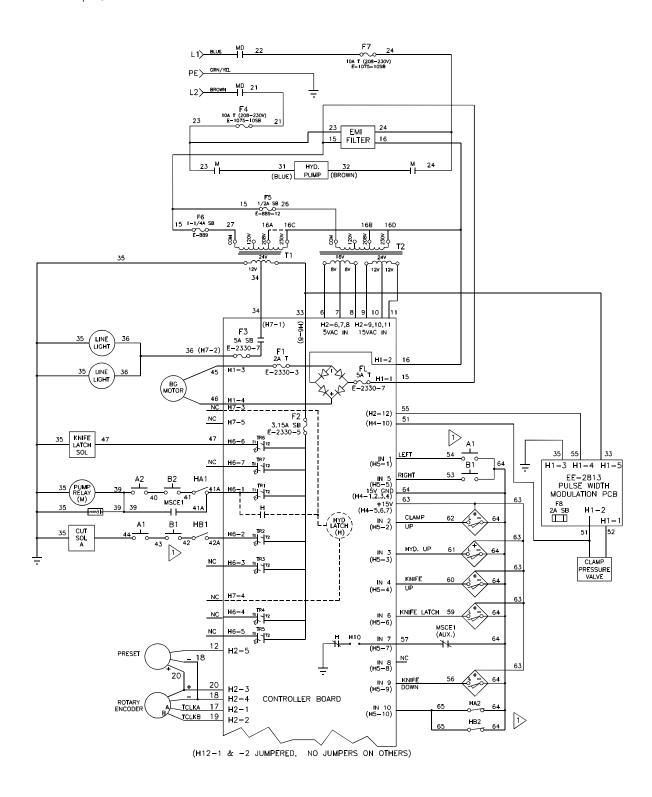
4.8 Power Panel Label

S-1781-54, Rev. C

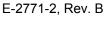


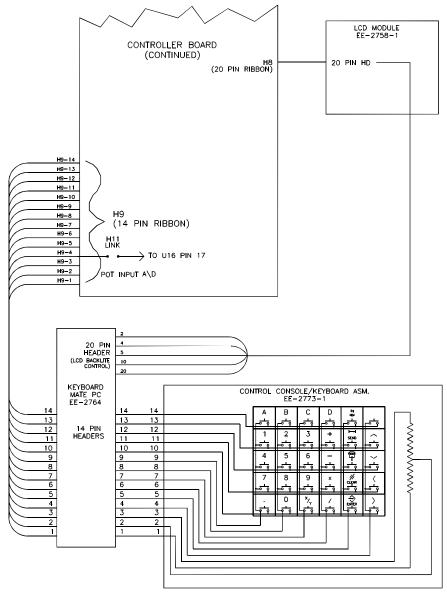
4.9 Electrical Schematic - Tilt Shield Machines

E-2771-2, Rev. B



Electrical Schematic - Tilt Shield Machines, Continued





SPECIAL TERMINAL BLOCK INSTRUCTIONS

FOR <u>2089</u> MACHINES JUMPER TERMINAL BLOCKS 16-16A-16B

FOR $\underline{230V}$ MACHINES JUMPER TERMINAL BLOCKS 16-16C-16D

NOTE: FOR MACHINES WITH 2 HAND CUT BUTTON CONTROL AND HOOD CONTROL - USE EE-1766-53-XX SOFTWARE.

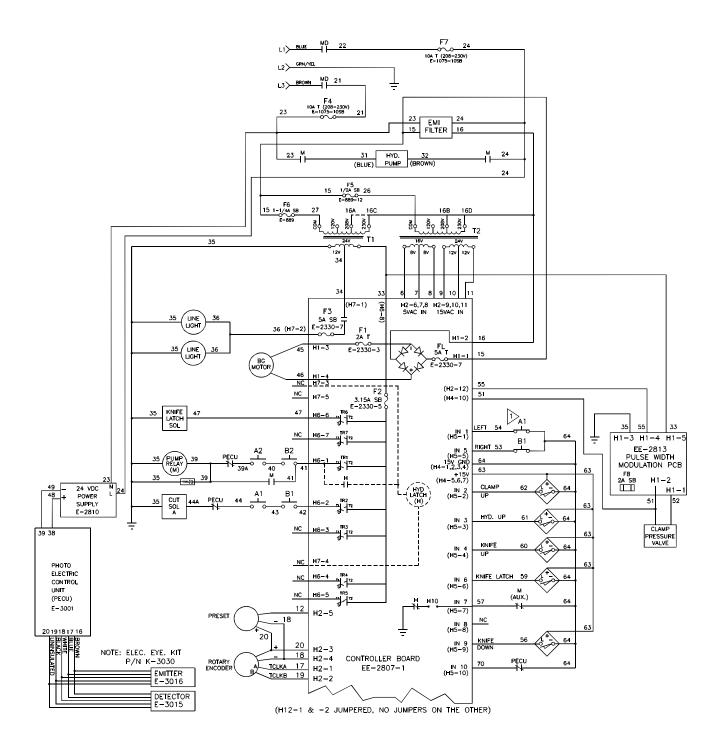
SCHEMATIC SHOWS SWITCHES IN POSITION OF THE HOOD OPEN AND CUT BUTTONS NOT DEPRESSED.

NOTE: THE PULSE WIDTH P.C. BOARD (EE-2813) AND THE CLAMP PRESSURE PROXIMITY SWITCH ARE OPTIONAL AND ARE SHOWN FOR REF. ONLY.

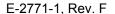
SERVICE NOTE: THE LINKS ON "H10" AND "H11" MUST BE REMOVED FOR THIS BOARD TO BE USED FOR REPAIRS FOR OLD EE-2762 BOARDS.

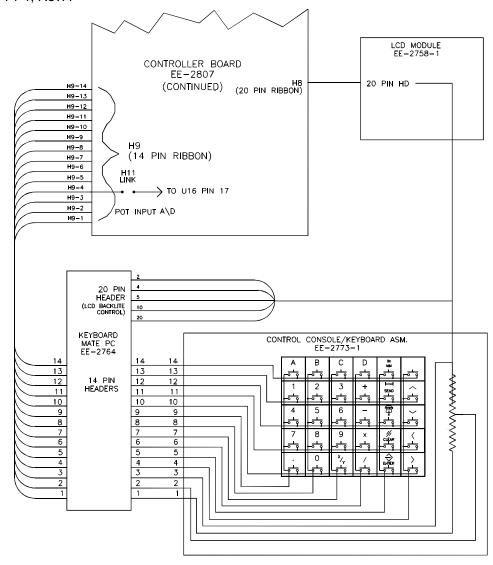
4.10 Electrical Schematic - Electric Eye Machines

E-2771-1, Rev. F



Electrical Schematic - Electric Eye Machines, Continued





NOTE: SCHEMATIC IS SHOWN IN MACHINE READY STATE.

SPECIAL TERMINAL BLOCK INSTRUCTIONS

FOR <u>208V</u> MACHINES JUMPER TERMINAL BLOCKS 16-16A-16B

FOR $\underline{230V}$ MACHINES JUMPER TERMINAL BLOCKS 16-16C-16D

NOTE: FOR MACHINES WITH HOOD CONTROL — SWITCHES
CONNECTED TO INPUTS 1 & 5 ARE NORMALLY
CLOSED AND USE EE-1766-41-XX SOFTWARE.

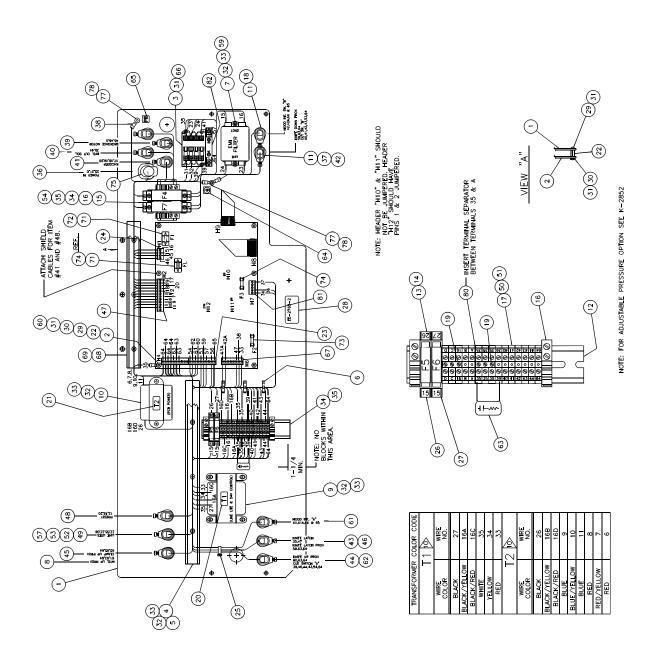
FOR MACHINES WITH 2 HAND CUT BUTTON CONTROL — SWITCHES CONNECTED TO INPUTS 1 & 5 ARE NORMALLY OPEN AND USE EE-1766-50-XX SOFTWARE.

NOTE: THE PULSE WIDTH P.C. BOARD (EE-2813) AND THE CLAMP PRESSURE PROXIMITY SWITCH ARE OPTIONAL AND ARE SHOWN FOR REF. ONLY.

SERVICE NOTE: THE LINKS ON "H10" AND "H11" MUST BE REMOVED FOR THIS BOARD TO BE USED FOR REPAIRS FOR OLD EE-2762 BOARDS.

4.11 Power Panel Assembly

EE-2765-1, Rev. F



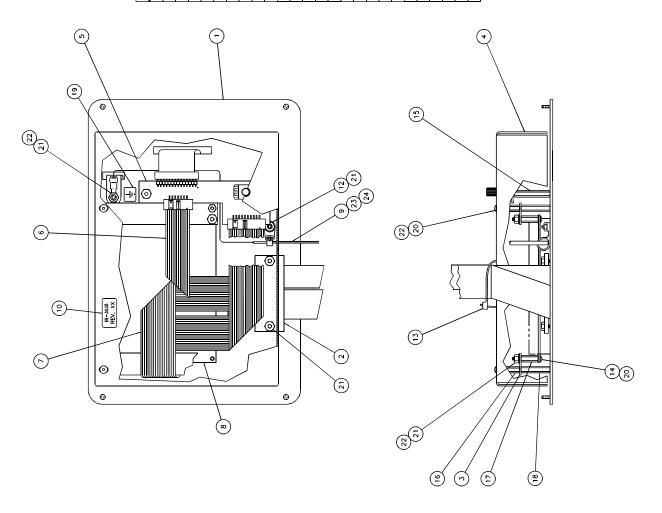
Power Panel Assembly – EE-2765-1, Rev. F

ġ	PART NO.	DESCRIPTION OF ACCESSORIES	ΔI
43	EE-2770	PROXIMITY SWITCH ASSEMBLY - KNIFE LATCH	1
44	EE-2770-4	PROXIMITY SWITCH ASSEMBLY - KNIFE UP	1
45	EE-2770-2	PROXIMITY SWITCH ASSEMBLY - CLAMP UP	-
46	EE-2775	CABLE ASSEMBLY - KNIFE LATCH	ı
47	E-2066-12	CONNECTOR - PLUG-IN PCB TERM. BLOCK	1
48	EE-1688-1	CABLE ASSEMBLY - PRESET	1
49	E-709-R	WIRE - #18GA, RED MTW 37" LONG, WIRE #35	7
20	E-1356-132	LABEL – TERMINAL BLOCK	-
51	E-1356-131	LABEL - TERMINAL BLOCK	ı
52	E-709-R	WIRE - #18GA, RED MTW 42" LONG, WIRE #36	-
53	E-709-R	WIRE - #18GA, RED MTW 36" LONG, WIRE #36	-
54	E-1977-3	RAIL - TERMINAL BLOCK, 3" LONG	-
22	E-849-R	WIRE - #16 GA, RED MTW AS NEE	NEEDED
26	E-709-R	WIRE - #18 GA. RED MTW AS NEE	NEEDED
22	E-1214-9	CONNECTOR - #8 INS. RING	2
58	E-1214-54	CONNECTOR - 1/4" FULLY INS. MALE Q.D.	2
59	E-1214-49	CONNECTOR - 1/4" FULLY INS. FEMALE Q.D.	4
09	E-1214-36	CONNECTOR - #6 INS. RING	1
61	EE-2901-1	CABLE ASSEMBLY - HOOD INT. SWITCH "A"	ı
62	EE-2774-1	CABLE ASSEMBLY - INTERLOCK SWITCH "A"	-
63	E-1736-3	QUENCHARC	-
64	S-1781-42	LABEL - GROUND	-
65	S-1781-45	– "PE" PROTE	-
99	H-6910-63205	SCREW - $\#6-32 \times 5/8$ " BUT HD	7
29	E-2066-8	CONNECTOR - PLUG IN PCB TERMINAL BLOCK	-
89	E-1429-15	WIRE DUCT - 10-3/4" LONG	ļ
69	E-2719-15	COVER - WIRE DUCT, 10-3/4" LONG	-
70	E-702-R	WIRE - #14 GA. RED MTW	NEEDED
71	E-2373	FUSE HOLDER COVER - METRIC	2
72	E-2330-3	FUSE - 2A SLO-BLO, GLASS METRIC (F1)	-
73	E-2330-5	FUSE - 3.15A SLO-BLO, GLASS METRIC (F2)	-
74	E-2330-7	FUSE - 5A SLO-BLO, GLASS METRIC (F3)	-
75	S-1350-5		-
76	E-1453-6	SHRINK TUBING - 1/8" DIA., 1" LONG	7
77	H-6910-404	×	2
78	н-7324-8	WASHER - 1/4" INT. TOOTHLOCK	7
79	E-1599-11	IC - 32 PIN PACKAGE (BLANK)	-
80	E-2864	SEPARATOR PLATE - TERMINAL BLOCK	-
81	E-2066-5	CONNECTOR - PLUG IN PCB TERM. 5 POLE	-
82	E-2376-4	CONTACTOR - AUX. (1) N.O. (1) N.C.)	-

FARI NO.	DESCRIPTION OF ACCESSORIES	5
1	PANEL - ELECTRICAL	1
.2807-1	P.C.B. ASSEMBLY - CONTROLLER	1
E-2805	STARTER - CONTACTOR	-
E-1429-14	WIRE DUCT - 13-1/2" LONG	-
2719–14	COVER - WIRE DUCT, 13-1/2" LONG	1
2186–8	WIRE SADDLE, LOCKING TOP	3
2730–3	FILTER – EMI, PANEL MOUNT	-
-2770-1	PROXIMITY ASSEMBLY - HYDRUALIC UP	ı
2742-6	TRANSFORMER - 120/208/230V, 12/24V SEC.	ı
2742-5	TRANSFORMER - 120/230V PRIM., 16/24V SEC.	1
S-1350-16	STRAIN RELIEF - CABLE	12
1977–18	I ≯	1
1974-2	FUSE BLOCK - TERMINAL MOUNT, GLASS FUSE	7
E-1890	FUSE HOLDER - GLASS FUSE	2
1974–5	FUSE HOLDER - RAIL MOUNT, MIDGET	2
2070-1	END BRACKET - TERMINAL BLOCK	4
2068-8	TERMINAL BLOCK - THROUGH, #10 GA.	15
-2902	CABLE ASSEMBLY - HOOD INTERLOCK "B" (RH)	ı
2507-3	FIXED BRIDGE - TERMINAL BLOCK - 3 POLE	2
-1584-51	LABEL – TRANSFORMER, "T1"	1
1584-52	LABEL – TRANSFORMER, "T2"	1
1152–24	STAND-OFF - 1/2" LONG, #6-32 THR'D	9
2066–10	CONNECTOR - PLUG IN PCB TERMINAL BLOCK	2
2066–4	CONNECTOR - PLUG IN PCB TERMINAL BLOCK	-
-1694	: TIE	4
E-889-12	FUSE - GLASS, 1/2A T "F5"	1
E-889	FUSE - GLASS, 1-1/4A T "F6"	1
E-1584-()	LABEL - PART NUMBER/ REVISION LEVEL	ı
H-6910-63203	SCREW - #6-32 X 3/8" BUT HD	9
H-6423-#6	NUT - #6-32 HEX	9
H-7324-#6	WASHER - #6 INT. TOOTHLOCK	14
H-6910-83204	SCREW - #8-32 X 1/2" BUT	14
7324-#8	WASHER - #8 INT. TOOTHLOCK	14
H-6910-102403	SCREW - #10-24 x 3/8" BUT HD	4
7324-#10	WASHER - #10 INT. TOOTHLOCK	4
-2766	CABLE ASSEMBLY - MAIN DISCONNECT SWITCH	1
2774	CABLE ASSEMBLY - INTERLOCK SWITCH "B"	ı
214-63	CONNECTOR-1/4" NON-INS RING	REF
2768	CABLE ASSEMBLY - BACKGAGE MOTOR	1
EE-2769	CABLE ASSEMBLY - CUT SOLENOID	1
-2534-1	CABLE ASSEMBLY - ENCODER	1

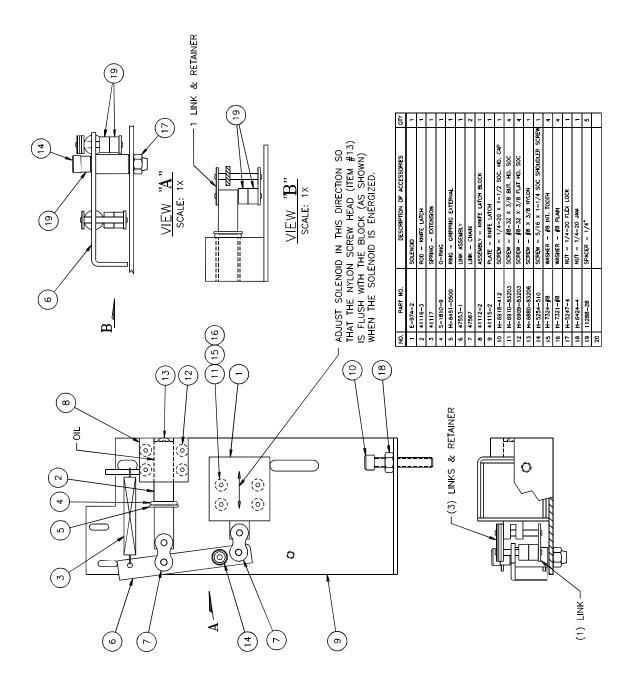
4.12 Control Console Assembly

EE-3035, Rev. A



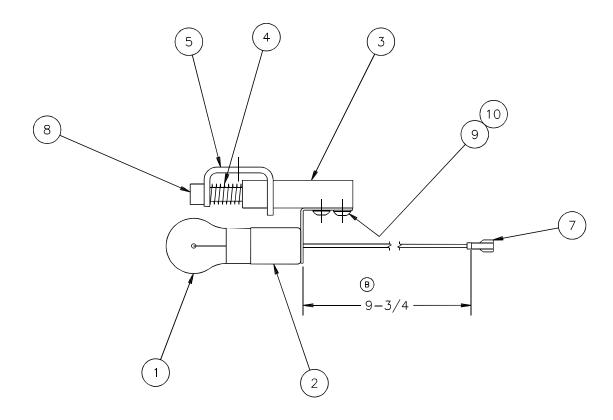
4.13 Knife Latch Assembly

41120-3, Rev. A



4.14 Line Light Assembly

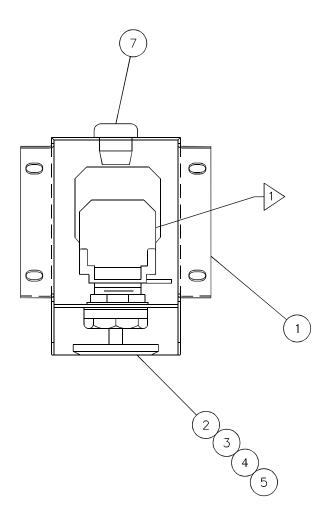
EE-2779, Rev. B



NO.	PART NO.	DESCRIPTION OF ACCESSORIES	QTY
1	E-967-1	LAMP - LINE LIGHT	1
2	E-1260-1	SOCKET - LINE LIGHT	1
3	9127-1	SUPPORT - LINE LIGHT	1
4	35048-13	SPRING	1
5	9126-2	BRACKET - LINE LIGHT	1
6			
7	E-1214-47	CONNECTOR - FEM. FULLY INS. QUICK DISC.	1
8	H-6918-410	SCREW - 1/4-20 X 1-1/4 SOC. HD. CAP	1
9	H-6910-83203	SCREW - #8-32NC X 3/8" BUT HD CAP	2
10	H-7324-#8	WASHER - #8 INTERNAL TOOTH	2

4.15 Cut Button Assembly

EE-2851-3 Rev. A



NO.	PART NO.	DESCRIPTION OF ACCESSORIES	QTY
1	16566-1	BOX - PUSHBUTTON	1
2	E-2074-7	SWITCH BODY - PUSHBUTTON, GREEN	1
3	E-1839-9	CONTACT BLOCK - (1) N.O., SWITCH	1
4	E-1839-10	CONTACT BLOCK - (2) N.O., SWITCH	1
5	16520	ANTI-ROTATION RING	1
6			
7	S-1350-13	STRAIN RELIEF - CABLE	1

NOTES:



WHEN SNAPPING THE CONTACT BLOCKS INTO THE SUPPLIED HOLDERS BE SURE THAT THE CONTACT IS MOUNTED SO THAT IT'S PLUNGER IS ON THE INSIDE OF THE HOLDER.

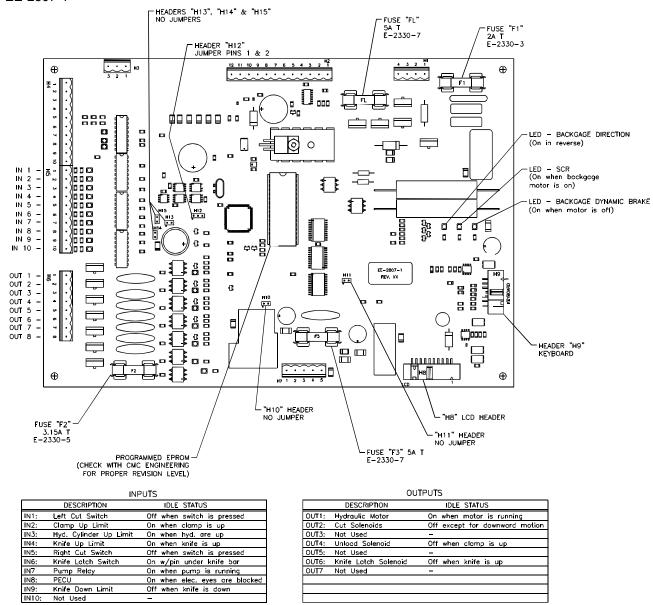
4.16 Fuse Value and Function

Location	Fuse Value/Type	Circuit	Transformer/Voltage	<u>Dimension</u>
F1	2A-T	Backgauge Motor	230 VAC	5mm x 20mm
F2	3.15A-T	Pcb output	T1.Secondary	5mm x 20mm
F3	5A-T	Line Lights	12 VDC	5mm x 20mm
F4	10A-T	Main – Hot	230 VAC	13/32" x 1- 1/2"
F5	.5A-T	5V-logic, preset, encoder/15v- prox.	T2 Primary	1⁄4" x 1-1/4"
F6	1.25A-T	12v, 24v Pcb outputs	T1 Primary	1⁄4" x 1-1/4"
F7	10A-T	Main – Neutral	230 VAC	13/32" x 1- 1/2"
FL	5A-T	Backgauge Motor	230 VAC	5mm x 20mm

T = Time Delay Fuse

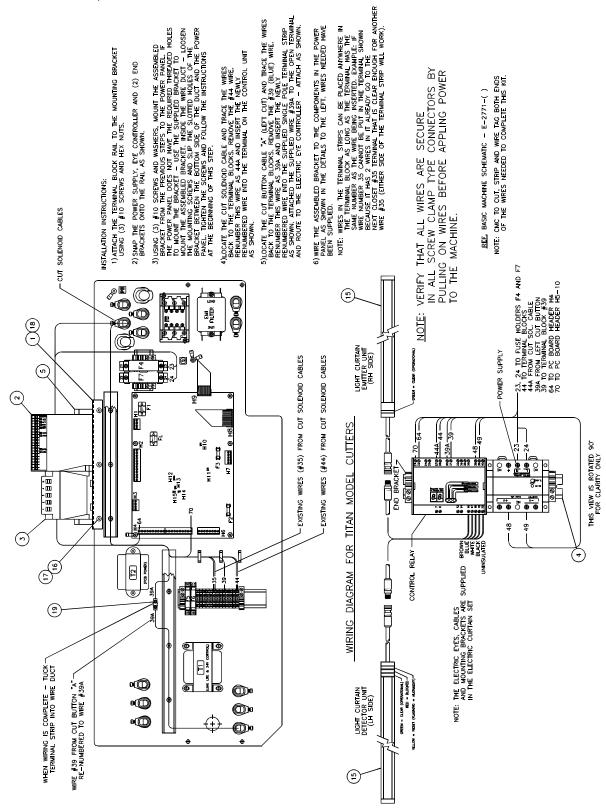
4.17 Control P.C. Assembly

EE-2807-1



4.18 Electric Eye Assembly

K-3030 Sheet 1, Rev. B



Electric Eye Assembly – K-3030 Sheet 1, Rev. B

1 43100 2 E-3001 3 E-2810 4 E-1977-15 5 E-2070-1 6 E-702-R 7 E-709-R 9 E-709-R 10 E-709-R 11 E-849-R 12 E-849-R 13 E-709-R 14 E-709-R 15 E-3014 16 H-7324-#10 17 H-6910-102404	DESCRIPTION OF ACCESSORIES	QTY
	BRACKET - CONTROLLER MOUNT	_
	RELAY — SAFETY OUTPUT (BANNER)	REF
	POWER SUPPLY - 24V OUTPUT	←
	RAIL — TERMINAL BLOCK, 9" LONG	<u></u>
	END BRACKET — TERMINAL BLOCK	2
	WIRE - #14GA. RED MTW 29" LONG (#23)	~
	WIRE - #14GA. RED MTW 29" LONG (#24)	<u>~</u>
	WIRE - #18GA. RED MTW 21" LONG (#70)	<u>~</u>
	WIRE - #18GA. RED MTW 25" LONG (#64)	~
	WIRE - #18GA. RED MTW 24" LONG (#44)	2
	WIRE - #16 GA. RED MTW 21" LONG (#48)	_
	WIRE - #16 GA. RED MTW 25" LONG (#49)	~
	WIRE - #18 GA. RED MTW 22" LONG (#39A)	←
岀	WIRE - #18 GA. RED MTW 22" LONG (#39)	_
보	ELECTRIC CURTAIN SET - 12" TITAN 200 ONLY	_
H	WASHER - #10 INT. TOOTHLOCK	9
	SCREW - #10-24 X 1/2" BUT HD	9
18 S-1694-2	TYRAP - WIRE	2
19 E-2626	TERMINAL STRIP - SINGLE POLE	_

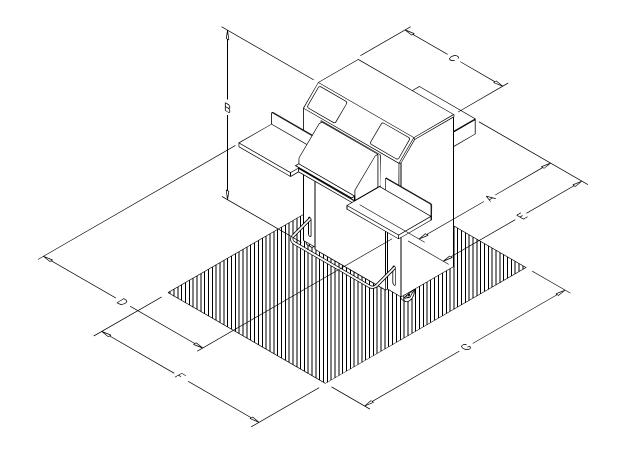
Electric Eye Assembly – K-3030 Sheet 2, Rev. A -RELOCATE CUT BUTTONS TO POSITION SHOWN 6 BRACKET MUST BE MOUNTED 90" TO DETECTOR/EMITTER AS SHOWN (D) DETECTOR -

Electric Eye Assembly – K-3030 Sheet 2, Rev. A

NO.	PART NO.	DESCRIPTION OF ACCESSORIES	QTY
-	E-3014	ELEC. EYE CURTAIN SET - 12"	REF
7	43096	ELEC EYE BRACKET, RH	~
2	43097	ELEC EYE BRACKET, LH	-
4	43094	TABLE EXTENSION	2
5	43098	SUPPORT - TABLE EXTENSIONS	-
9	43095	BACK PLATE	2
7	E-1172-23	STRAIN RELIEF	2
∞			
6	H-6423-#10	NUT - #10-24 HEX KEP	4
10	H-6918-606	SCREW - 3/8-16 X 3/4 SOC HD	10
11	H-6910-406	SCREW - $1/4-20 \times 3/4$ BUT HD	4
12	H-6910-102404	SCREW - #10-24 X 1/2 BUT HD	8
13	H-7327-12	WASHER - 3/8 MED. LOCK	10
14	H-7321-6	WASHER - 3/8 PLAIN	10
15	H-7327-8	WASHER - 1/4 MED. LOCK	4
16	H-7321-4	WASHER - 1/4 PLAIN	4
17			
18			
19			
20			

4.19 Titan 200 Floor Plan

43000-FP



Symbol	Inch	cm		
Α	49.0	124		
В	53.0	135		
C	36.0	91		
D	58.0	147		
E	53.0	135		
F	58.0	147		
G	74.0	188		
Net Wt.	755 lb	342 kg		

MACHINE DIMENSIONS: AxBxC

MACHINE DIMENSIONS WITH SIDE TABLE EXTENTIONS: DxBxE

OPERATING AREA: FxG

OVERALL MAINTENANCE AREA: FxG

NOTES

5.0 Safety Systems Test

Machine manufacturer _	CHALLENGE	Model	<u>TITAN 200</u>
Serial Number			

Frequency of test: THESE TESTS SHOULD BE PERFORMED AT THE BEGINNING OF EACH WORK DAY.

Turn the power on and press CLEAR to preset the backgauge. Make sure the knife and clamp are in the up position (if they are not, follow the instructions in this manual to send them up).

Machines with Front Guards:

Test #1: With the front guard open, press the cut buttons. Nothing should happen. If the knife and/or clamp come down with the front guard open, do not use the machine. Repair or adjustment is needed.

Test #2: Close the front guard and press the cut buttons. While the clamp or knife is coming down, open the front guard. The knife and clamp should immediately return to the up position. If they do not, do not use the machine. Repair or adjustment is needed.

Machines with Electric Eyes:

Test #1: Wave a test object 12mm in diameter between the electric eye beams. The indicator lights should indicate the eyes are blocked. If they do not, do not use the machine. Repair or adjustment is needed.

Test #2: If machine equipped with electric eyes, while making a cut, lean into the electric eye beams. The knife and clamp should immediately return to the up position. If they do not, do not use the machine. Repair or adjustment is needed.

Please	enter da	te and ir	nitials for	both tes	sts.					
Date										
Test 1										
Date										
Test 1						· 				
Test 2										
Date										
Test 2			· 			· 	· 		· <u> </u>	
Date							·		·	
Date										
Test 1										
Test 2										
Repairs							Initials o		Date	
										 -
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