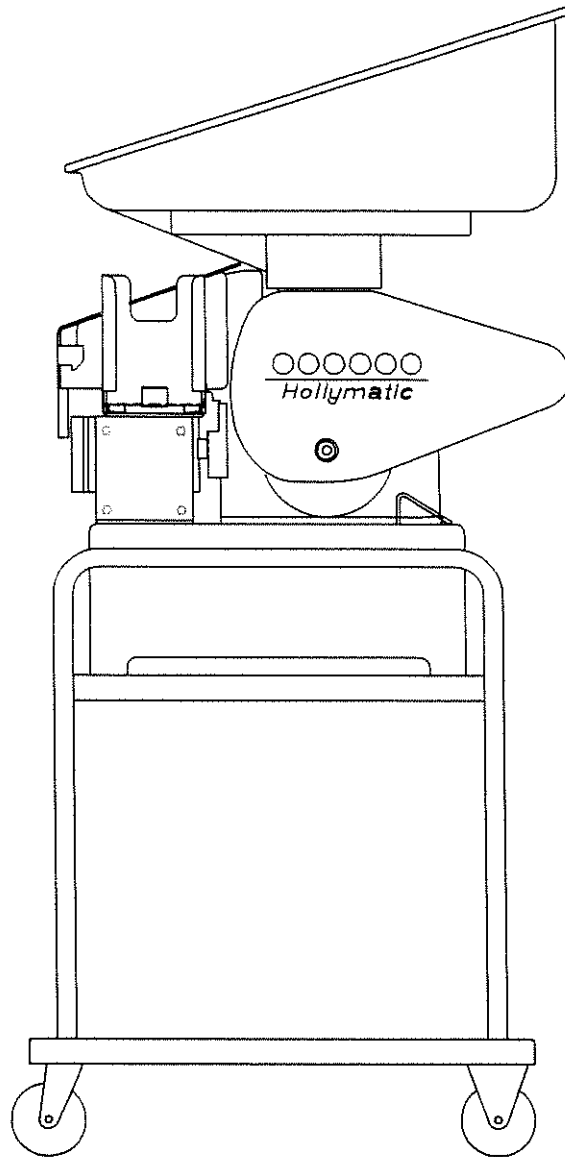




HOLLYMATIC

SUPER



OPERATORS MANUAL – PARTS LIST

FOR SUPER SERIAL NUMBERS BEGINNING WITH 65482

EVERY PERSON OPERATING THIS MACHINE MUST READ THIS MANUAL INCLUDING ALL SAFETY INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE THIS MACHINE. PROPER GUARDS AND SAFETY DEVICES ARE INSTALLED FOR YOUR SAFETY. DO NOT OPERATE THE MACHINE UNLESS ALL GUARDS ARE IN PLACE.

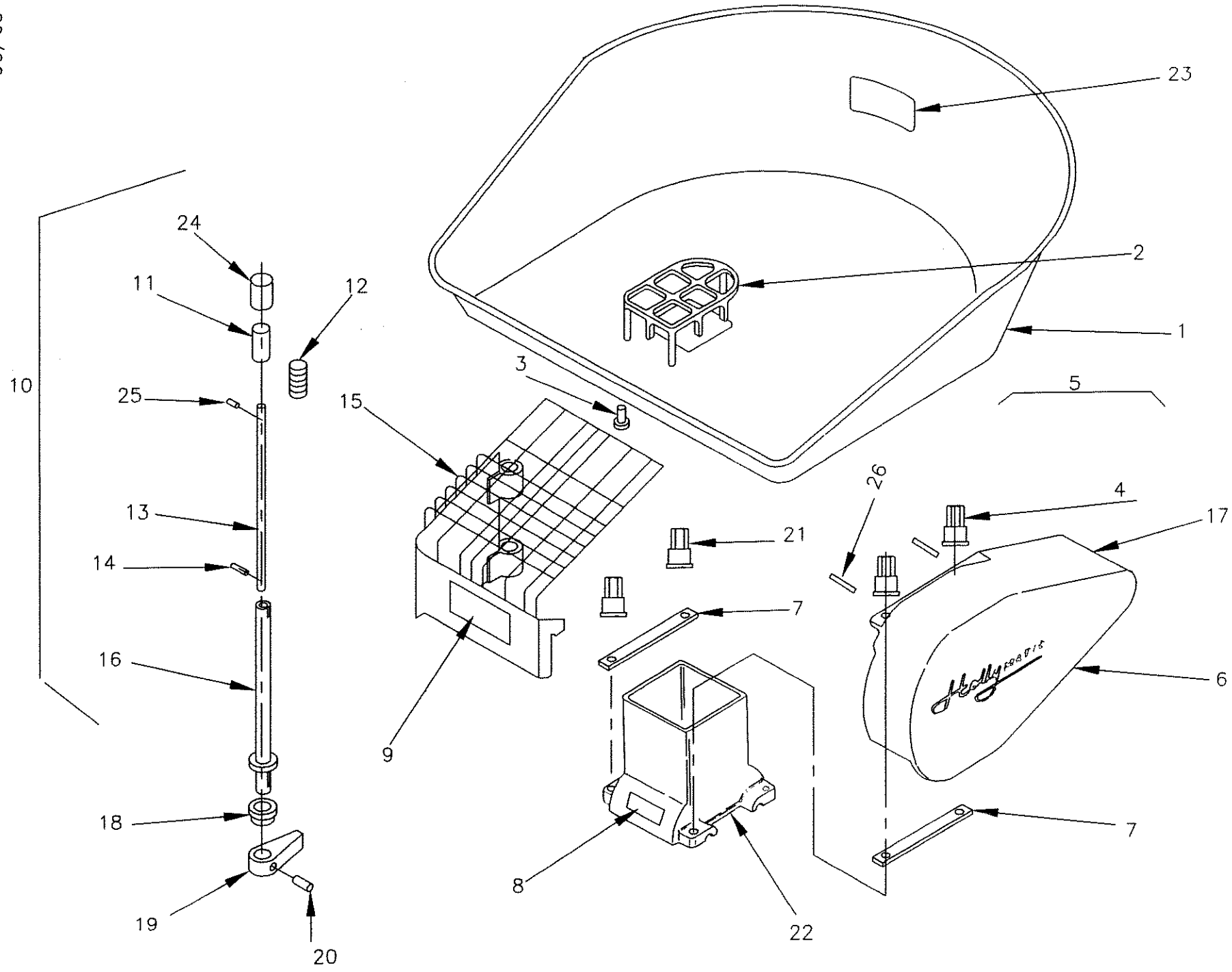
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HOLLYMATIC CORPORATION

MARCH, 2008

HOLLYMATIC CORPORATION
600 E. PLAINFIELD ROAD
COUNTRYSIDE, ILLINOIS 60525
PHONE: 708-579-3700
FAX: 708-579-1057

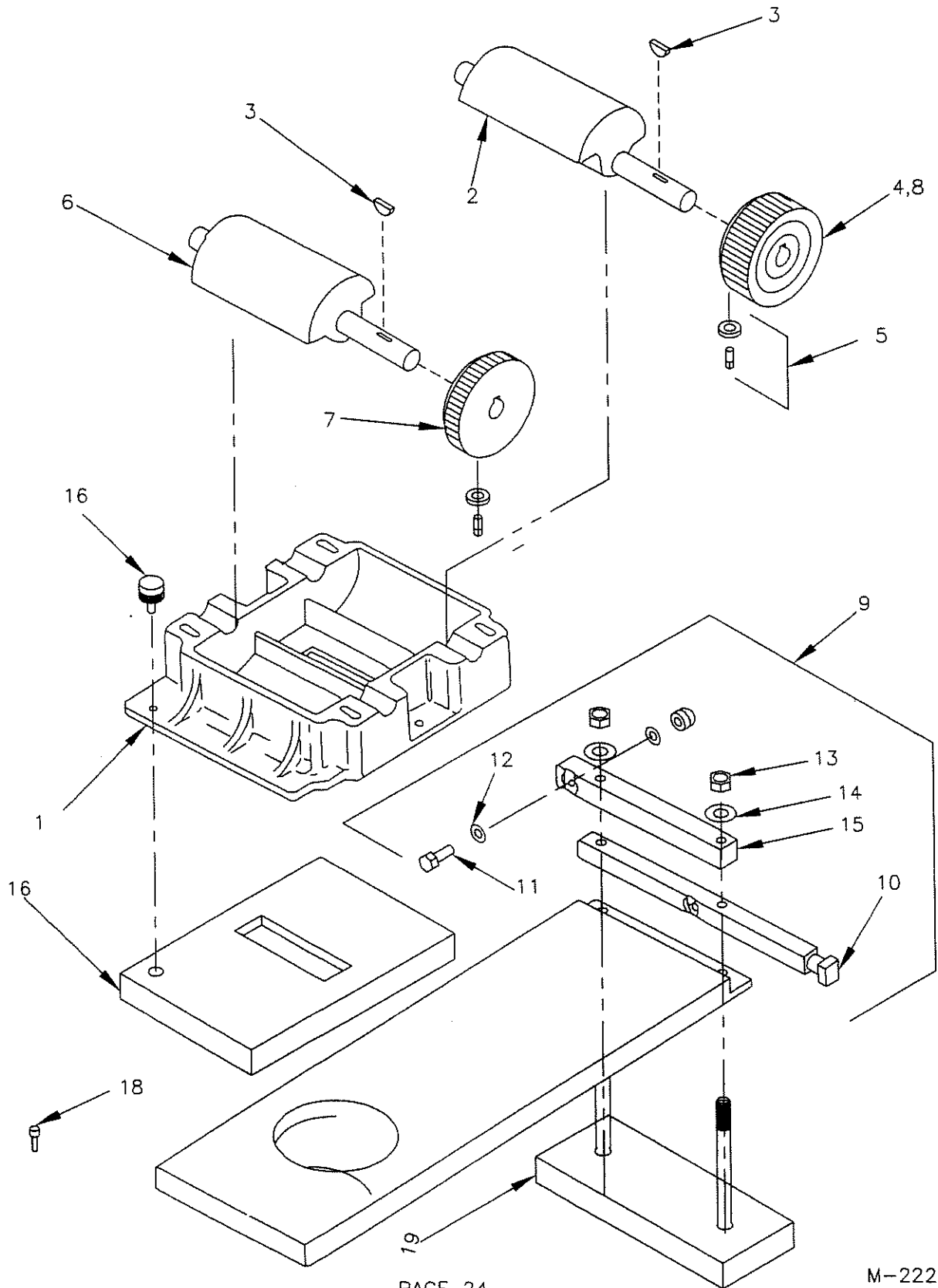
HOPPER TOP



HOPPER TOP

ITEM	QTY	PART NO.	ITEM	QTY	PART NO.
1	1	7421	12	1	7005
FEED TRAY (INC. #2,3)			13	1	7677
2	1	7680	14	1	7022
GUARD			15	1	7897
3	3	7767	M.P. GUARD SUB-ASSY (INCLUDES #9)		
4	2	6510	16	1	7673
CAP NUTS - GEAR GUARD			POST		
5	1	6515	17	1	9000601
GEAR GUARD ASSY (INC. #4, 6, 17, 26)			18	1	2835
6		6514	BUSHING		
GUARD			19	1	7710
7	2	2453	ACTUATOR-SAFETY SWITCH		
BAR-HOPPER BOLT			20	1	714033799
8	2	2252	SET SCREW		
DECAL-HOPPER TOP			21	2	6511
9	1	9001065	CAP NUTS FOR HOPPER STUDS		
LABEL-CAUTION			22	1	7113
10	1	7840	HOPPER TOP-SQUARE		
M.P. GUARD ASSY. (COMPLETE)			23	1	5000194
11	1	7006	LABEL-WARNING		
ACTUATOR			24	1	7173
			25	1	762061691
			26	2	762062640
			1/8 X 3/4 ROLL PIN		
			1/8 X 3/4 DOWEL PIN		

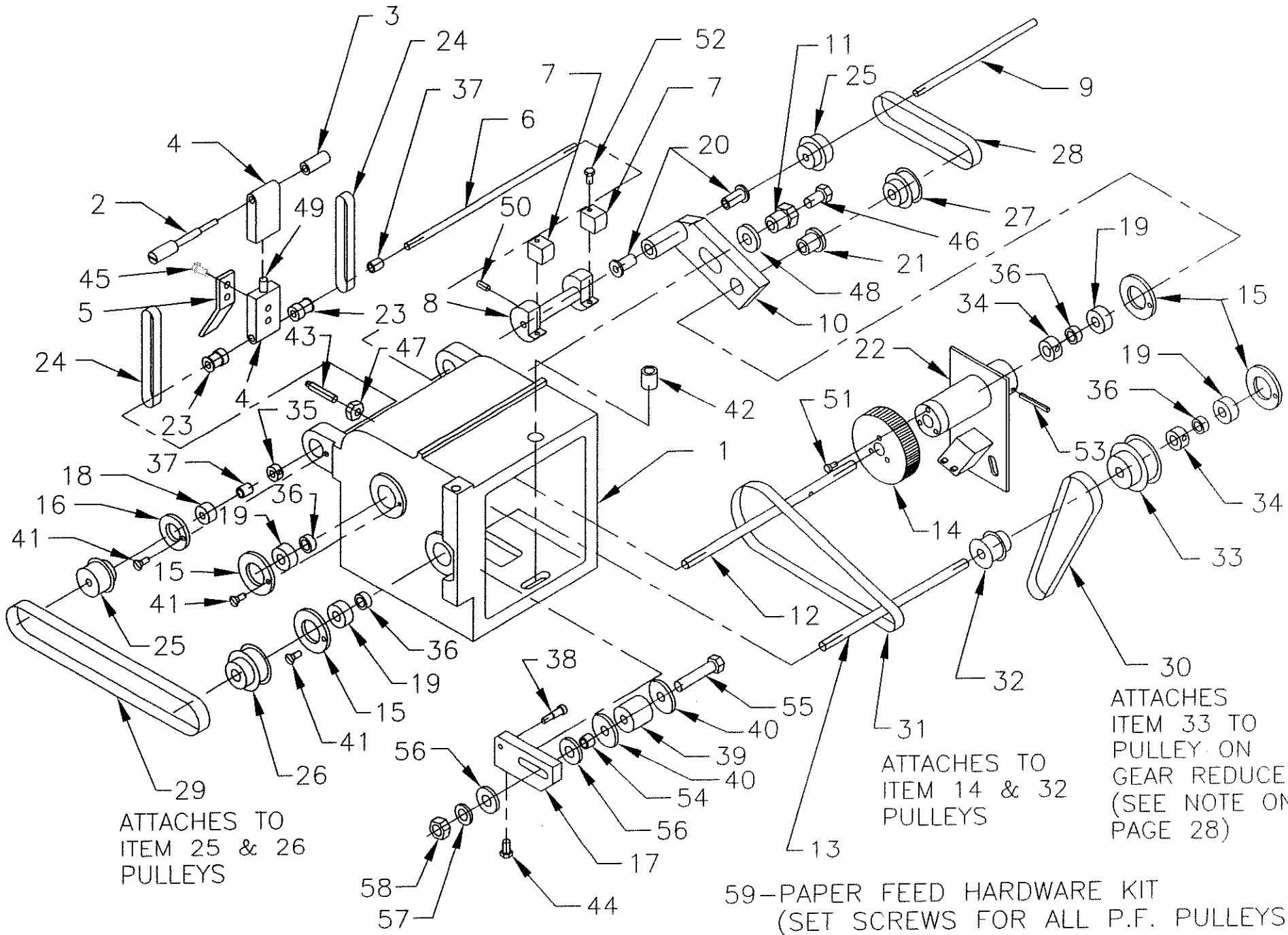
HOPPER BOTTOM



HOPPER BOTTOM

ITEM	QTY	PART NO.	ITEM	QTY	PART NO.
1	1	HOPPER BOTTOM	11	1	STOP SCREW ASSORTMENT
		5 OZ - LOW LIP			(INCLUDES 2208)
		5 OZ - GROOVED-LOW LIP	12	1	SPACER
		8 OZ - HIGH LIP	13	2	NUT 5/16 -20 SS
		8 OZ - GROOVED-HIGH LIP	14	2	5/16" L/W SPLIT
2	1	COMPRESSOR-REAR	15	1	BRACKET-EXTENSION
		FOR 5 OZ HOPPER BOTTOM			(FOR ALL MOLD PLATES)
		FOR 8 OZ HOPPER BOTTOM	16	1	ADAPTER PLATE
3	2	KEY-WOODRUFF			(INCLUDING LOCK SCREW)
4	1	GEAR-REAR COMPRESSOR			FOR 3/16 MOLD PLATE
5	2	SET SCREW & LOCKNUT			FOR 1/4 MOLD PLATE
6	1	COMPRESSOR-FRONT			FOR 5/16 MOLD PLATE
		FOR 5 OZ HOPPER BOTTOM			FOR 3/8 MOLD PLATE
		FOR 8 OZ HOPPER BOTTOM			FOR 1/2 MOLD PLATE
7	1	GEAR-FRONT COMPRESSOR			FOR 5/8 MOLD PLATE
8	1	DECAL-COMPRESSOR GEAR	17	1	LOCK SCREW/ADAPTER PLATE
9	A/R	MOLD PLATE ASSY	18	3	PIN FOR 8 OZ 3/4 M.P.
		(SPECIFY THICKNESS AND MATERIAL)	19	1	MOLD PLATE CLAMP WELDMENT
		3/16 - PLASTIC [STEEL]			
		1/4			
		5/16			
		3/8			
		1/2			
		5/8			
		3/4			
10		BRACKET-MOLD PLATE			

PAPER FEED HOUSING ASSEMBLY



ATTACHES TO
ITEM 25 & 26
PULLEYS

ATTACHES TO
ITEM 14 & 32
PULLEYS

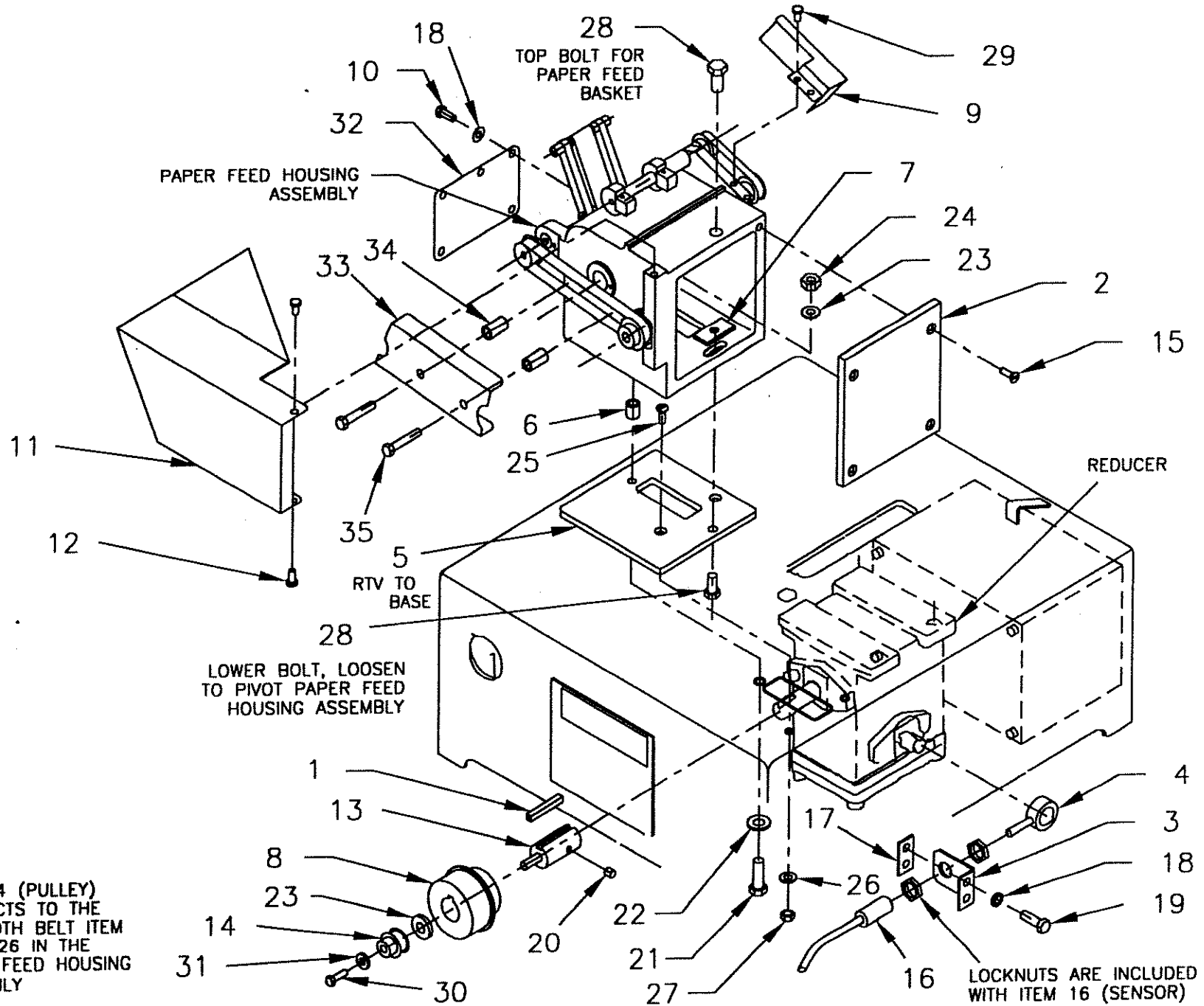
ATTACHES
ITEM 33 TO
PULLEY ON
GEAR REDUCER
(SEE NOTE ON
PAGE 28)

59-PAPER FEED HARDWARE KIT
(SET SCREWS FOR ALL P.F. PULLEYS)

PAPER FEED HOUSING ASSEMBLY

ITEM	DESCRIPTION	QTY	PART NUMBER	ITEM	DESCRIPTION	QTY	PART NUMBER
1	P.F. DRIVE HOUSING	1	7802	30	BELT-87T, T5mm PITCH	1	8118
2	FEED ROLLER	1	7804	31	BELT-55T, .20 PITCH	1	7863
3	END-FEED ROLLER	1	7805	32	PULLEY-14T, 3/8 BORE	1	7864
4	SWIVEL SUPPORT-FEED R.	2	7806	33	PULLEY-24T, 2100 PPH	1	8117
5	TAB-FEED ROLLER SUPPORT	1	7807		PULLEY-24T, 50 CYCLE	1	8117
6	SHAFT-FEED ROLLER	1	7808		PULLEY-22T, 1800 PPH	1	8116
7	PAD-INDEX ROLLER	2	7809	34	COLLAR-3/8 SHAFT	2	7866
8	INDEX ROLLER	1	7810	35	COLLAR-1/4 SHAFT	1	7867
9	SHAFT-INDEX ROLLER	1	7811	36	SPACER-3/8 SHAFT	4	7868
10	ARM-INDEX ROLLER	1	7812	37	SPACER-1/4 SHAFT	2	7869
11	ECCENTRIC-INDEX ROLLER	1	7813	38	SHOULDER BOLT-1/4 DIA.	1	7884
12	SHAFT-CLUTCH	1	7814	39	CAM ROLLER 1" DIA.	1	518-0588
13	SHAFT-INTERMEDIATE	1	7815	40	WASHERS	2	2269
14	PULLEY-42T	1	7832	41	#8-32 x 1/2 FHMS	12	712041840
15	CAP-3/8 BEARING	4	7836	42	THREAD INSERT 3/8-16	1	200-0597
16	CAP-1/4 BEARING	2	7837	43	SPRING PLUNGER	1	518-0439
17	BLOCK-CLUTCH RETAINER	1	7838	44	#10-24 x 1/2 FHMS	2	713041840
18	RADIAL BEARING-1/4 BORE	2	7850	45	#8-32 x 1/2 PHMS	2	712041640
19	RADIAL BEARING-3/8 BORE	4	7851	46	1/4-20 x 1 HHCS	1	714100240
20	FLANGE BEARING-1/4 BORE	2	7852	47	1/4-20 HEX NUT	1	734005140
21	FLANGE BEARING-3/8 BORE	1	7853	48	1/2 FLATWASHER	1	758000191
22	WRAP SPRG. CLUTCH	1	7854	49	3/16 x 3/4 DOWEL PIN	1	763062040
23	PULLEY-20T, .08 PITCH	2	7855	50	#8-32 x 1/4 HSSS	4	712023640
24	BELT-95 T, .08 PITCH	2	7856	51	#6-32 x 1/2 PHMS	3	711041640
25	PULLEY-16T, 1/4 BORE	2	7857	52	#8-32 x 3/4 PHMS	2	712061640
26	PULLEY-20T, 3/8 BORE	1	7858	53	1/8 X 1 1/4 ROLL PIN	1	762121691
27	PULLEY-16T, 3/8 BORE	1	7859	54	SPACER	1	518-0573
28	BELT-50T, .20 PITCH	1	7860	55	5/16-18 x 2 HHCS	1	715200253
29	BELT-75T, .20 PITCH	1	7861	56	5/16 FLATWASHER	2	755000191
				57	5/16 SPLIT L/W	1	755000591
				58	5/16-18 HEX NUT	1	735005153
				59	P.F. HARDWARE KIT (SET SCREWS FOR ALL P.F. PULLEYS)	1	8170

PAPER FEED DRIVE

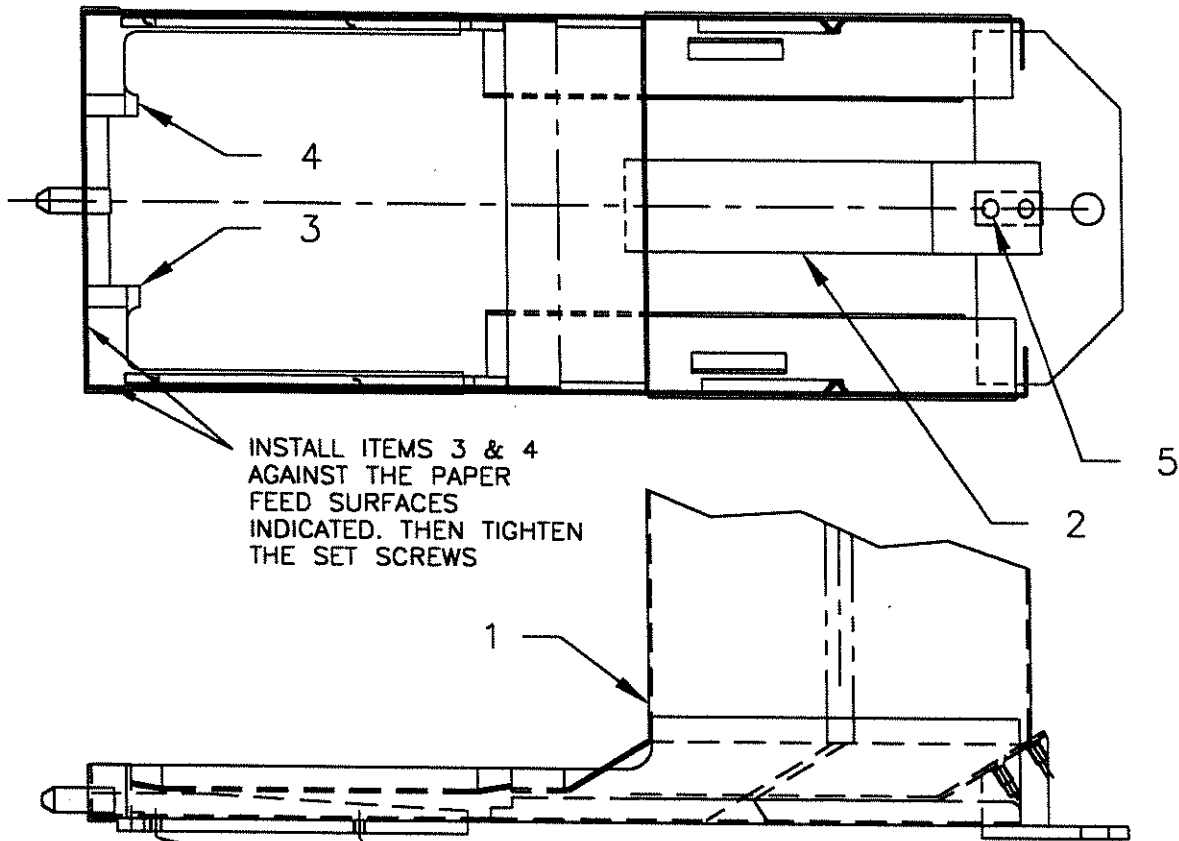


NOTE:
ITEM 14 (PULLEY)
CONNECTS TO THE
87 TOOTH BELT ITEM
30 PG.26 IN THE
PAPER FEED HOUSING
ASSEMBLY

PAPER FEED DRIVE

ITEM	DESCRIPTION	QTY	PART NUMBER
1	1/4 x 1 7/8 SQ. KEY	1	879-1101
2	COVER	1	7803
3	BRACKET-SENSOR	1	7817
4	SENSOR COLLAR	1	7819
5	PIVOT SUPPORT PLATE	1	7821
6	SPACER-PIVOT	1	7822
7	SCREW PLATE	1	7823
8	REDUCER PULLEY, 2100 PPH	1	7825
	REDUCER PULLEY, 1800 PPH	1	7878
	REDUCER PULLEY, 50 CYCLE	1	7879
9	REAR GUARD-P.F. DRIVE	1	7834
10	#8-32 X 1/4 PHMS SS	5	712021640
11	FRONT GUARD-P.F. DRIVE	1	7845
12	SPANNER SCREW, WITH SHOULDER	2	7846
13	ADAPTER-REDUCER PULLEY	1	7848
14	PULLEY 16T, 2100 PPH & 50 CYCLE	1	8114
	PULLEY 18T, 1800 PPH	1	8115
15	1/4-20 x 1/2 FHMS	4	714041840
16	PROXIMITY SENSOR	1	244-0376
17	BACK PLATE - SENSOR	1	2996
18	#8 LOCKWASHER	7	752000640
19	#8-32 x 1/2 PHMS	2	712041640
20	1/4-20 x 3/16 HSSS	3	3738
21	3/8-16 x 1 HHCS	1	716100253
22	3/8 SPLIT L/W	1	756000591
23	3/8 FLATWASHER	2	756000191
24	3/8-16 HEX JAM NUT	1	736008223
25	1/4-20 x 3/4 FHMS	2	714061840
26	1/4 SPLIT L/W	2	754000540
27	1/4-20 HEX NUT	2	734005140
28	3/8 FLANGED BOLT	2	8138
29	SPANNER SCREW 1/2 LG	2	7885
30	#10-24 x 1/2 HHCS	1	713040240
31	#10 FLATWASHER	1	753000240
32	COVER, HOUSING	1	7926
33	BELT GUARD	1	7908
34	SPACER	2	7909
35	1/4-20 x 1 1/4 HHCS	2	714120240

PAPER FEED BASKET

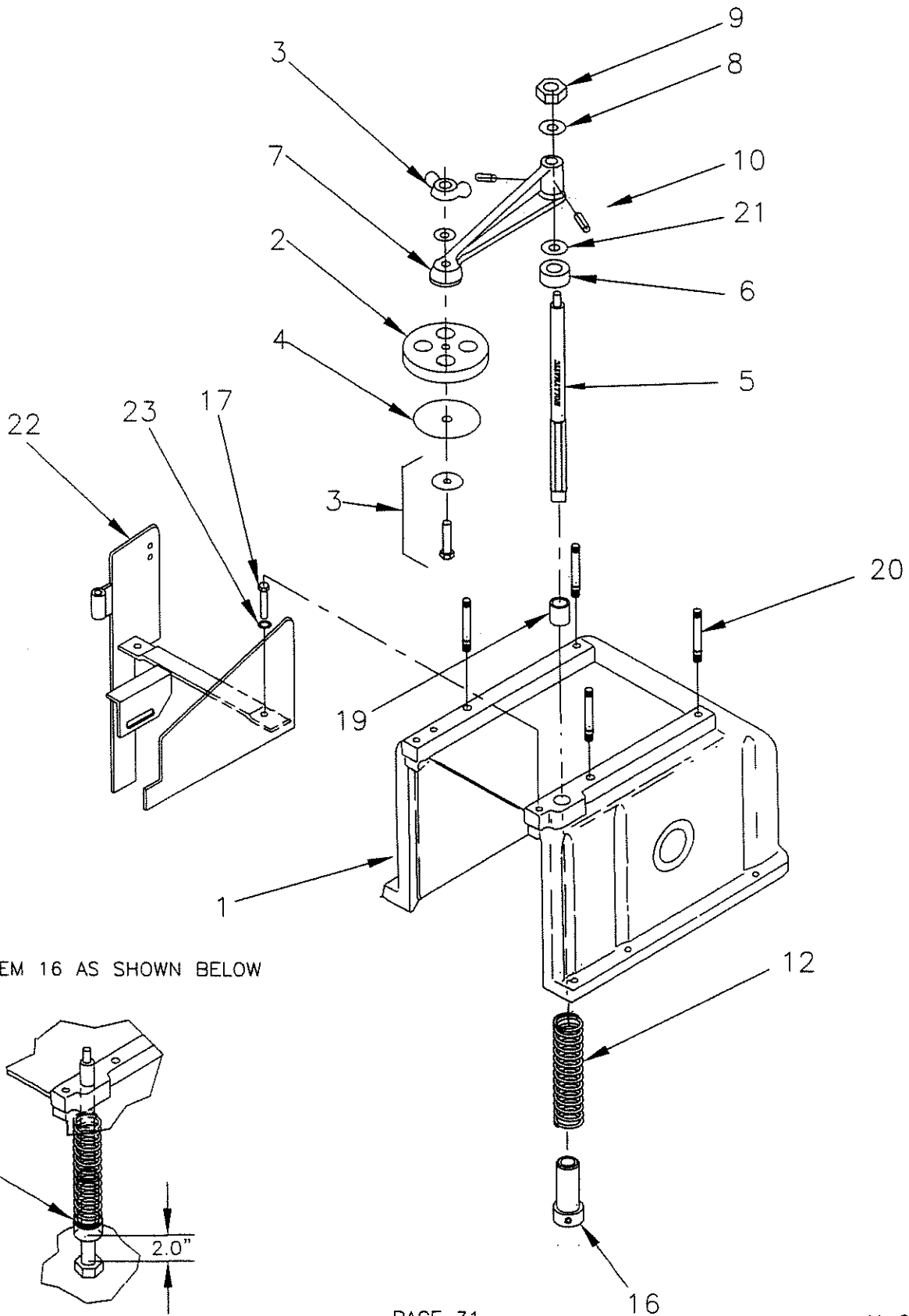


INSTALL ITEMS 3 & 4
AGAINST THE PAPER
FEED SURFACES
INDICATED. THEN TIGHTEN
THE SET SCREWS

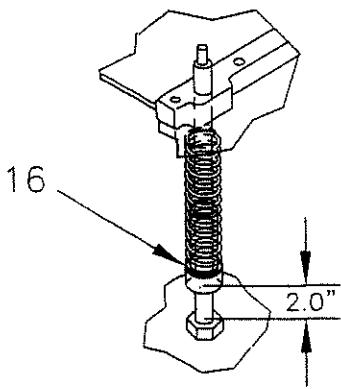
6 TIGHTEN THE SET SCREWS
TO SECURE ITEMS 3 & 4
(GUIDES) CAUTION: DO NOT OVERTIGHTEN
OR DAMAGE TO THE
GUIDES WILL OCCUR

ITEM	DESCRIPTION	QTY	PART NUMBER
1	PAPER FEED ASSY - 4 1/2 (INCL. ITEMS 1 TO 6)	1	7881
	PAPER FEED ASSY - 5 (INCL. ITEMS 1 TO 6)	1	7882
	PAPER FEED ASSY - 5 1/2 (INCL. ITEMS 1 TO 6)	1	7883
2	SUPPORT - 4 1/2	1	518-0595
	SUPPORT - 5	1	518-0595
	SUPPORT - 5 1/2	1	518-0594
3	GUIDE - LH, 4 1/2	1	7871
	GUIDE - LH, 5	1	7872
	GUIDE - LH, 5 1/2	1	7873
4	GUIDE - RH, 4 1/2	1	7875
	GUIDE - RH, 5	1	7876
	GUIDE - RH, 5 1/2	1	7877
5	#10-24 x 3/8 FHMS	2	713031840
6	#8-32 x 1/4 HSSS	4	712023640

UPPER FRAME AND KNOCK OUT ARM



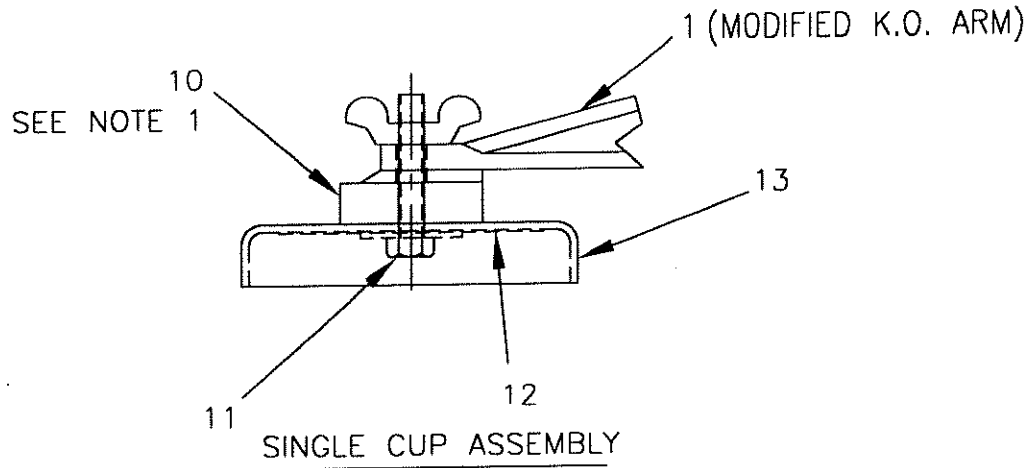
NOTE:
SET ITEM 16 AS SHOWN BELOW



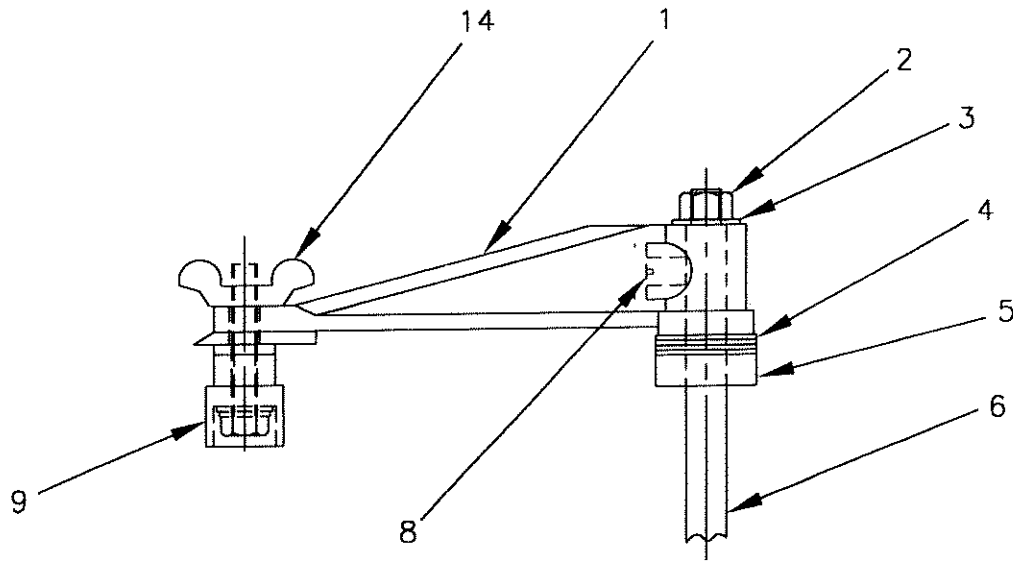
UPPER FRAME & KNOCK OUT ARM

ITEM	QTY	PART NO.	ITEM	QTY	PART NO.
1 UPPER FRAME	1	6500	8 WASHER	1	1224
2 KNOCK-OUT CUP ASSY RD SINGLE HOLE, INCL. ITEMS 3, 4, AND SPACER IF REQ'D	1	2180	9 NUT	1	736005223
3 KNOCK-OUT CUP ASSY MULTIPLE HOLE, INCL. ITEMS 3, 4, AND SPACER IF REQUIRED	1	2480	10 SET SCREW,NYLOK,SLOTTED, SS	2	716043540
4 K.O. CUP ASSY SQUARE; INCL. ITEMS 3, 4 & SPACER IF REQUIRED	1	2487	11 SPRING-COMPRESSION	1	8120
5 K.O. CUP ASSY, NON-ROUND INCL. 3, 4 & SPACER IF REQ'D	1	2466	12	1	
6 BOLT ASSORTMENT	1	2182	13	1	
7 DISC 3 1/4"	1	1144	14	1	
8 ROD, KNOCK-OUT (FOR SERIAL #65143 & UP	1	6502	15	1	6506
9 BUMPER	1	2238	16 COLLAR ASSY	1	714140440
10 KNOCK-OUT ARM-STD. KNOCK-OUT ARM-MOD. (FOR MOLD PLATES WITH OFFSET OR MULTIPLE HOLES)	1	2061	17 SCREW	2	
	1	2361	18	1	2069
			19 BUSHING-KNOCK OUT ROD	1	6509
			20 STUD, HOPPER	4	2159
			21 WASHER	1	2159
			22 WASHER-MOD. ARM ONLY	4	7841
			23 HINGE SUPPORT WELDMENT (WITH PAPER FEED BASKET)	1	7903
			24 HINGE SUPPORT WELDMENT (WITHOUT PAPER FEED BASKET)	1	
			25 LOCKWASHER	2	754000640
			26		
			27		
			28		
			29		

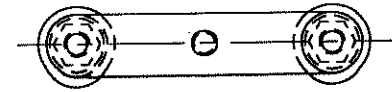
MULTI-HOLE ASSEMBLY



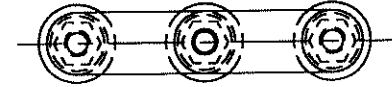
SINGLE CUP ASSEMBLY



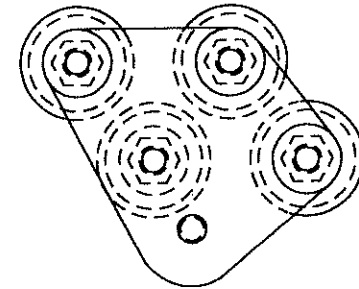
MULTIPLE CUP ASSEMBLY



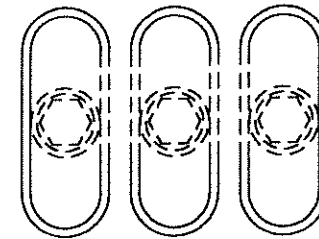
K.O. CUP ASSEMBLY 2480
2 HOLE



K.O. CUP ASSEMBLY 8162
3 HOLE



K.O. CUP ASSEMBLY 8171
4 HOLE



K.O. CUP ASSEMBLY, OFFSET 8167
MULTIPLE HOLE

NOTE:
1. USE THIS SPACER IN ADDITION TO A CUP SPACER.

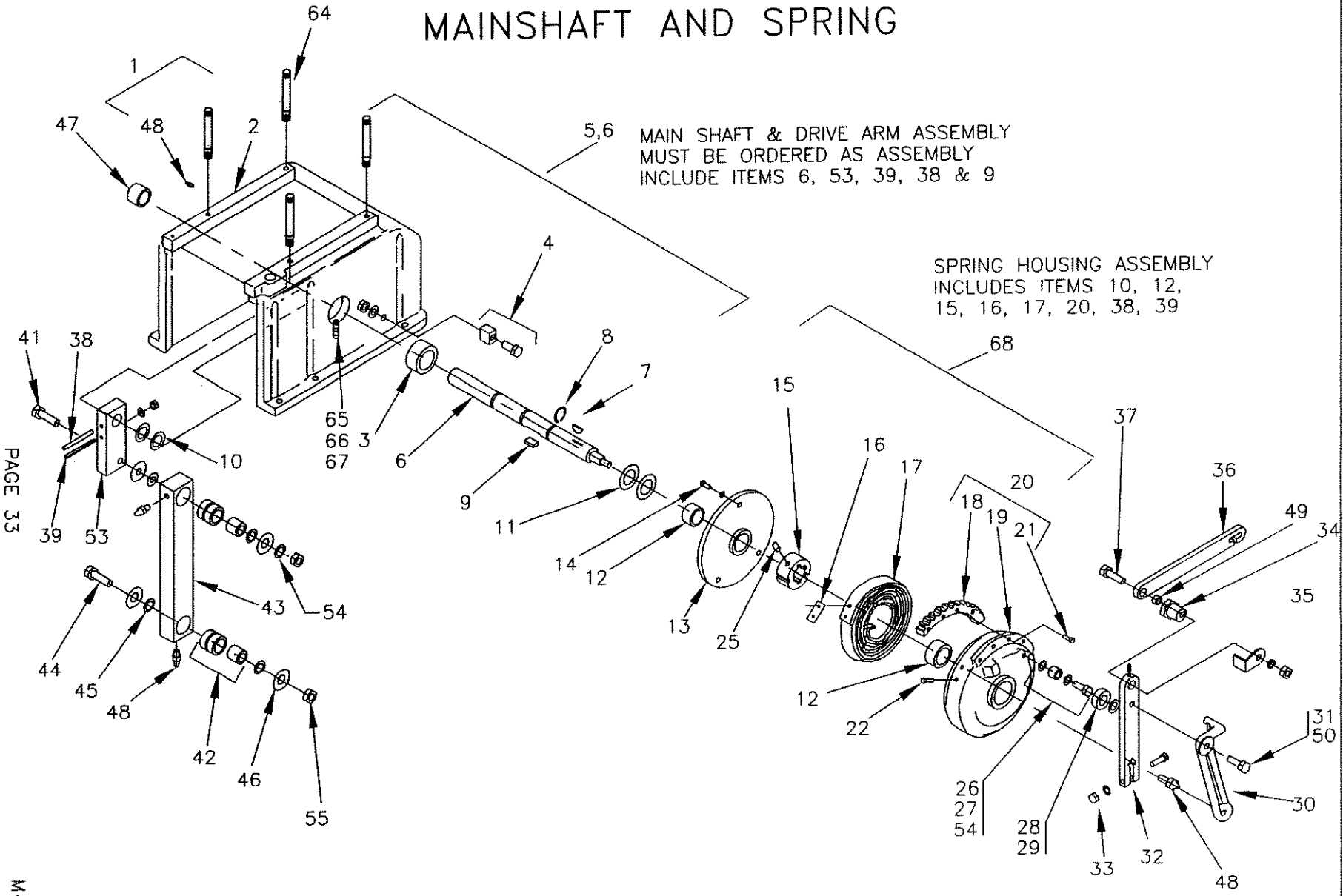
MULTI-HOLE ASSEMBLY

ITEM	DESCRIPTION	QTY	PART NO.
1	K.O. ARM-MODIFIED	1	2361
2	NUT	1	736005223
3	WASHER	1	1224
4	WASHER	4	2159
5	BUMPER	1	2238
6	K.O. ROD	1	2348
7			
8	SET SCREW, NYLOK, SLOTTED, SS	2	716043540
9	K.O. CUP ASSY-4 HOLE	1	8171
	K.O. CUP ASSY-2 HOLE	1	2480
	K.O. CUP ASSY-3 HOLE	1	8162
	K.O. CUP ASSY, OFFSET MULTIPLE HOLE	1	8167
10	SPACER, MODIFIED ARM	1	8169
11	BOLT ASSORTMENT	1	2182
12	DISC 3 1/4"	1	1144
13	K.O. CUP COMPOSITE	1	910-0499
14	WING NUT	1	2999

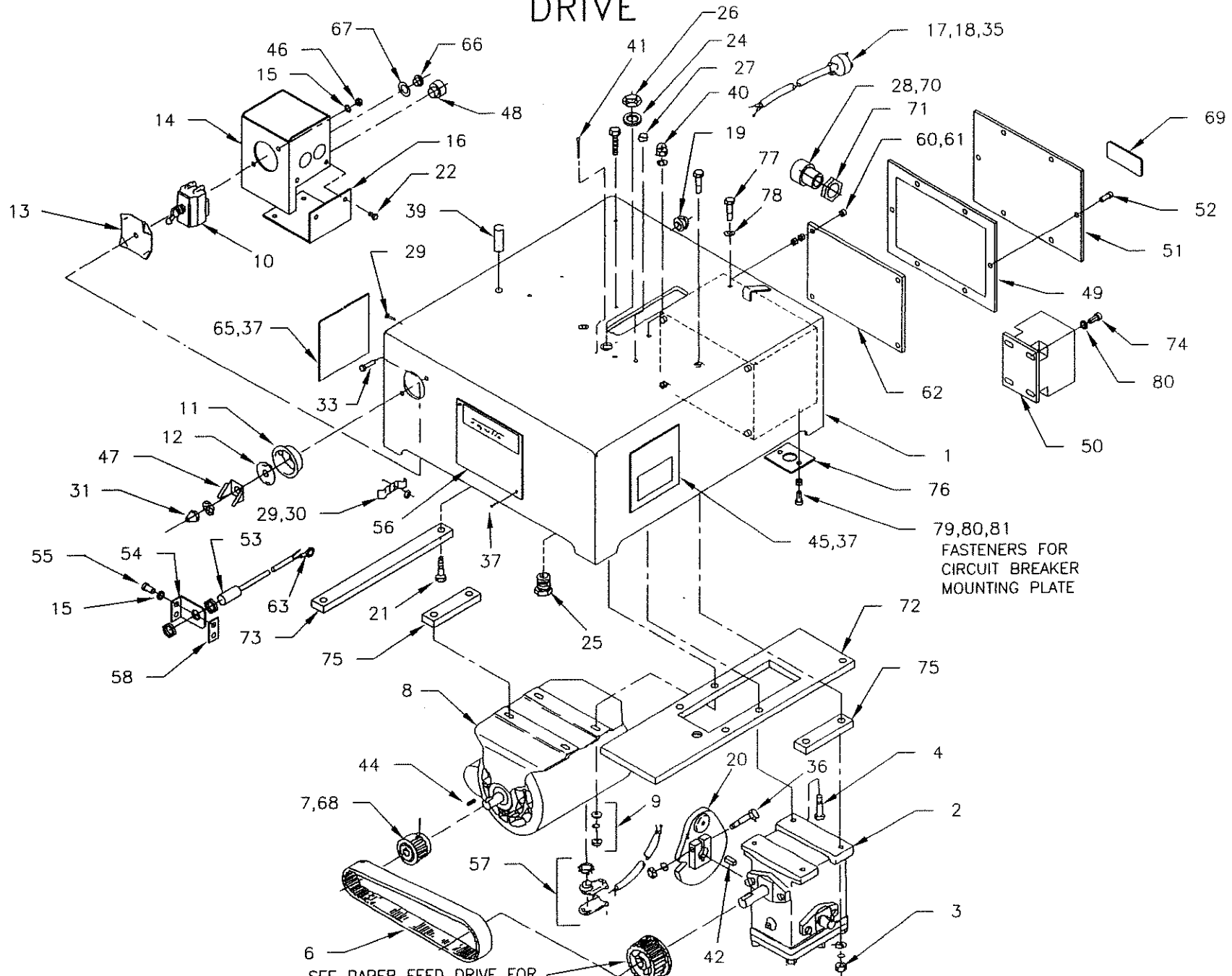
MAINSHAFT AND SPRING

5,6 MAIN SHAFT & DRIVE ARM ASSEMBLY
MUST BE ORDERED AS ASSEMBLY
INCLUDE ITEMS 6, 53, 39, 38 & 9

68 SPRING HOUSING ASSEMBLY
INCLUDES ITEMS 10, 12,
15, 16, 17, 20, 38, 39



DRIVE



79,80,81
FASTENERS FOR
CIRCUIT BREAKER
MOUNTING PLATE

SEE PAPER FEED DRIVE FOR
REDUCER PULLEY NO.(PG.28 ITEM #8)

DRIVE

ITEM	QTY	PART NUMBER	ITEM	QTY	PART NUMBER
1	1	6501	39	3	2316
BASE WELDMENT WITH ELEC. BOX (INCLUDES ITEMS 3,9,26,28,38,49, 51,52,60,61,62,70,71,72,73,75,77&78) (FOR SER.# 65143 & UP)			40	1	2318
2	1	2353	41	2	762104191
3	2	2245	42	1	500-0133
4	2	2242	43		
5			44	1	500-0134
(SEE PAPER FEED DRIVE FOR REDUCER PULLEY PART NO.S)			45	1	2290
6			46	2	733005123
MAIN DRIVE BELT:			47	1	7148
	1	2161	48	3	2673
			49	1	7764
	1	2366	50		
7			CONTACTOR:		
PULLEY, MOTOR:				1	7727
	1	2162		1	7962
			ALL 1 PH. VOLTAGES		
	1	2664	ALL 3 PH. VOLTAGES		
			51	1	7756
8		7719	52	6	713021940
MOTOR 115/60/1 (SEE ELECTRICAL COMPONENTS FOR OTHER OPTIONS)			53	1	244-0376
9	4	2184	54	1	7709
10	1	8154	55	2	712041640
11	1	2429	56	1	900-0103
12	1	2723	57	1	2701
13	1	2427	58	1	2996
14	1	7929	59		
15	4	753000640	60	4	713060240
16	1	7932	61	12	733005140
17	1	2674	62	1	7760
18			63	1	500-1136
CORD-ELECTRICAL (SEE ELECTRICAL COMPONENTS)			64		
19	1	2149	65	1	900-0622
20	1	2354	66	2	7796
21	2	2313	67	2	7711
22	4	713021940	68	2	715034599
23			69	1	900-0609
24	1	750000640	70	1	860-0522
25	1	Use 6508 6503	71	3	400-1150
26	1	740008240	72	1	6550
27	1	2117	73	1	7757
28	2	400-1148	74	2	712041640
29	1	2720	75	2	7762
30	2	200-0749	76	1	7795
31	1	500-1167	77	1	715110240
32			78	1	755000140
33	2	713050523	79	2	712031640
34	1	714034593	80	4	752000640
35			81	2	732005140
PLUG (SEE ELECTRICAL COMPONENTS)			82	2	714034593
36	1	2346			
37	12	500-0996			
38					

INTERLEAF PAPER AND STANDARD PLASTIC KNOCK OUT CUP PART NUMBER IDENTIFICATION

SIDE NOTCH PAPER SIZE	DESCRIPTION	PART NO.	APPROX. CARTON WEIGHT
HN2 4-1/2	HEAVY WEIGHT, SINGLE	955-0001	34
HN6 4-1/2	DOUBLE SHEET, FREEZER	955-0010	35
HN2 5	HEAVY WEIGHT, SINGLE	955-0002	44
HN6 5	DOUBLE SHEET, FREEZER	955-0011	44
HN2 5-1/2	HEAVY WEIGHT, SINGLE	955-0003	51
HN6 5-1/2	DOUBLE SHEET, FREEZER	955-0012	51
HN2 4-1/2	OCTAGONAL	955-0021	32
HN6 4-1/2	OCTAGONAL	955-0020	33

PART NO.	K.O. CUP DIAMETER	MINIMUM MOLD PLATE DIAMETER (INCHES)	MAXIMUM MOLD PLATE DIAMETER (INCHES)
910-1206	3.501	3.626	3.691
910-1207	3.567	3.692	3.757
910-1208	3.633	3.758	3.823
910-1209	3.699	3.824	3.889
910-1210	3.765	3.890	3.955
910-1211	3.831	3.956	4.021
910-1212	3.897	4.022	4.087
910-1213	3.963	4.088	4.153
910-1214	4.029	4.154	4.219
910-1215	4.095	4.220	4.285
910-1216	4.161	4.286	4.351
910-1217	4.227	4.352	4.417
910-1218	4.293	4.418	4.483
910-1219	4.359	4.484	4.549
910-1220	4.425	4.550	4.615
910-1221	4.491	4.616	4.681
910-1222	4.557	4.682	4.747

PART NO.	PLASTIC K.O. CUP SPACERS
910-1224	SPACER A
910-1225	SPACER B

TROUBLESHOOTING

THIS TROUBLESHOOTING GUIDE IS PROVIDED TO ASSIST YOU IN DIAGNOSING AND CORRECTING SOME MACHINE MALFUNCTIONS. IF YOU CANNOT LOCATE OR CORRECT THE PROBLEM THAT YOUR MACHINE IS HAVING, CONTACT AN AUTHORIZED HOLLYMATIC SERVICE REPRESENTATIVE.

PROBLEM	POSSIBLE CAUSES	REMEDIES
1. MACHINE WILL NOT START.	<p>SAFETY SWITCH OPEN</p> <p>CHECK INCOMING POWER</p> <p>MOTOR CIRCUIT BREAKER OPEN</p> <p>CONTROL CIRCUIT FUSE BLOWN</p>	<p>CLOSE ALL GUARDS: MOLD PLATE HOPPER</p> <p>CONNECT IF DISCONNECTED</p> <p>RESET BREAKER (SEE PAGE 4 FOR LOCATION)</p> <p>REPLACE FUSE IN CONTROL BOX (SEE PAGE 4 FOR LOCATION)</p>
2. "LIP" TOO LARGE ON PATTY.	<p>MEAT TOO WARM</p> <p>EXCESSIVE PRESSURE</p>	<p>DECREASE TEMPERATURE OF MEAT</p> <p>SEE PG 15, TORSION SPRING SET UP</p>
3. PATTY NOT FULL	<p>INADEQUATE MEAT PRESSURE</p> <p>BRIDGING IN HOPPER</p> <p>FAT BUILD-UP ON COMPRESSORS</p> <p>MEAT TOO COLD</p>	<p>SEE PG 15, TORSION SPRING SET UP</p> <p>DO NOT PACK MEAT IN HOPPER MEAT SHOULD FALL FREELY</p> <p>CLEAN COMPRESSORS</p> <p>INCREASE TEMPERATURE OF MEAT</p>
4. PATTIES NOT STACKING.	<p>PATTY NOT FULL</p> <p>K.O. CUP NOT STRAIGHT</p> <p>K.O. DISC NOT FUNCTIONING</p> <p>K.O. SPRING BROKEN</p> <p>K.O. ROD BENT</p> <p>K.O. ROD NOT DROPPING FREELY</p> <p>MEAT TOO WARM AND STICKING TO K.O. CUP</p> <p>K.O. CUP NOT GOING THROUGH PLATE</p>	<p>SEE PG 15, TORSION SPRING SET UP</p> <p>STRAIGHTEN CUP SO THAT BOTTOM SURFACE IS PARALLEL TO M.P. OR REPLACE K.O. CUP</p> <p>ADD OR REPLACE PAPER DISC (SEE PAGE 9)</p> <p>REPLACE SPRING</p> <p>REPLACE ROD</p> <p>LUBRICATE WITH HOLLY-LUBE</p> <p>REDUCE TEMPERATURE OF MEAT</p> <p>USE PROPER SPACER WITH CUP (SEE PAGE 8)</p>
5. PAPER SHEET NOT MOVING TO STOP PIN.	<p>DEBRIS IN PAPER FEED BASKET SIDE RAILS</p> <p>PAPER FEED MECHANISM NOT ADJUSTED PROPERLY</p> <p>PAPER IN BASKET NOT LOADED PROPERLY</p> <p>OIL ON RUBBER PADS</p>	<p>CLEAR DEBRIS</p> <p>SEE PAGE 9 FOR ADJUSTMENTS</p> <p>PAPER WRONG SIZE OR NOT ENGAGED IN SIDE NOTCH</p> <p>CLEAN PADS - USE FINE EMERY CLOTH IF NECESSARY</p>

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SAFETY INSTRUCTIONS

WARNING TO ALL PURCHASERS, OPERATORS AND OPERATION SUPERVISORS:

MAKE CERTAIN EVERY PERSON WHO IS TO OPERATE THIS MACHINE HAS READ THIS MANUAL BEFORE BEING PERMITTED TO OPERATE THE MACHINE.

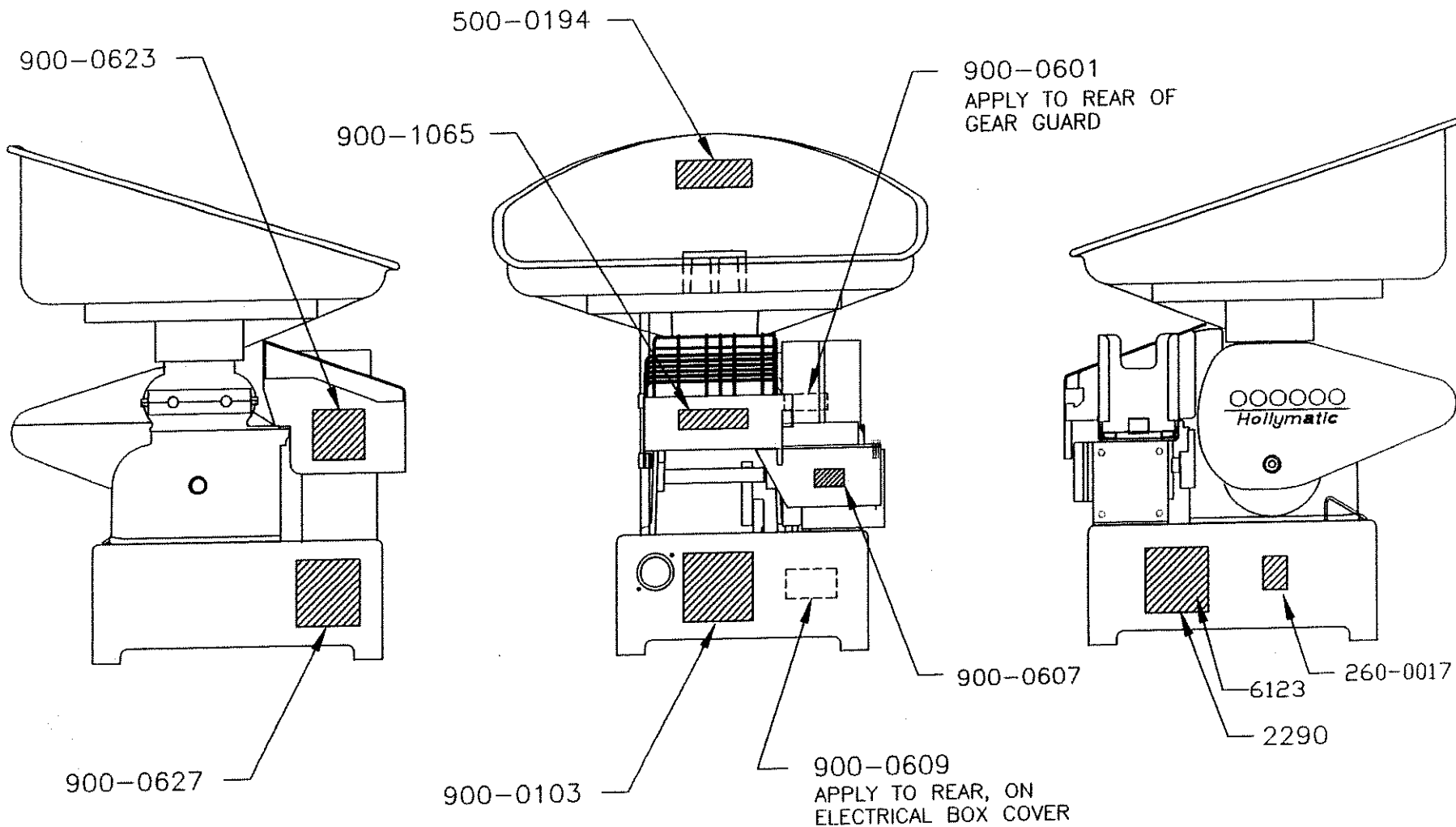
HAVE ALL OPERATORS SIGN THE SIGNATURE PAGE FOUND AT THE END OF THIS MANUAL.

FAILURE TO READ AND ADHERE TO THE FOLLOWING IMPORTANT INSTRUCTIONS COULD RESULT IN BODILY INJURY.

READ THIS MANUAL COMPLETELY BEFORE OPERATING THE HOLLYMATIC MACHINE. ADDITIONAL MANUALS AS WELL AS REPLACEMENT SAFETY LABELS ARE AVAILABLE FROM HOLLYMATIC CORPORATION OR FROM YOUR LOCAL HOLLYMATIC DEALER AT NO COST.

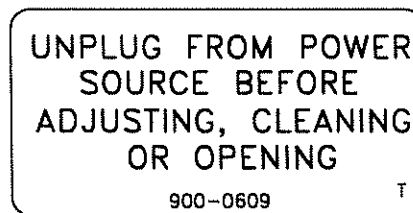
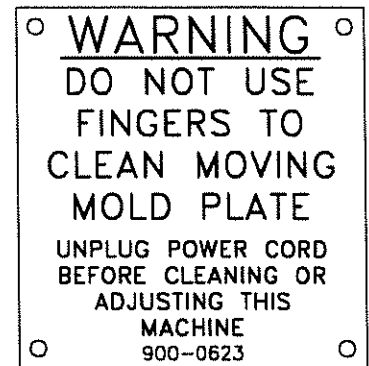
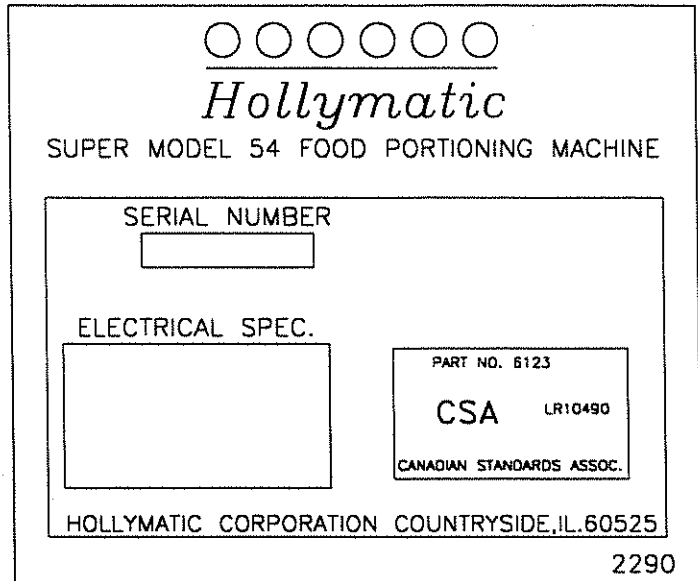
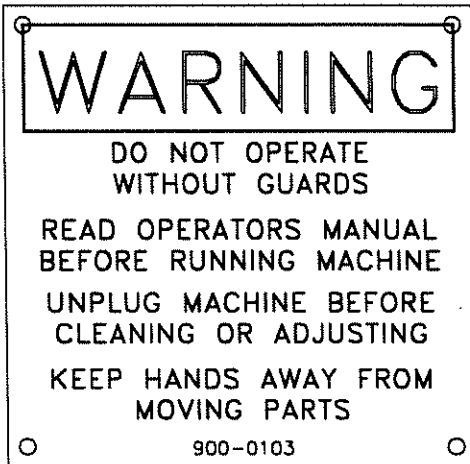
1. DO NOT OPERATE THIS MACHINE UNTIL IT HAS BEEN INSPECTED AND MADE READY FOR OPERATION BY AN AUTHORIZED HOLLYMATIC DEALER.
2. DO NOT OPERATE MACHINE WITHOUT ALL GUARDS IN PLACE.
3. UNPLUG MACHINE WHEN NOT IN USE.
4. ALWAYS DISCONNECT THE MACHINE FROM ITS POWER SOURCE BEFORE CLEANING, SERVICING OR ADJUSTING THE MACHINE.
5. DO NOT OPERATE THE MACHINE IF THE CORD OR PLUG ARE DAMAGED.
6. KEEP HANDS AWAY FROM MOVING PARTS.
7. ALLOW ONLY AN AUTHORIZED HOLLYMATIC DEALER TO REPAIR OR ADJUST YOUR MACHINE.
8. AT ANY TIME AN OPERATOR SUSPECTS THAT AN INTERLOCK OR SAFETY DEVICE IS NOT FUNCTIONING PROPERLY, THE OPERATION SHOULD BE TERMINATED, THE MACHINE UNPLUGGED AND AN AUTHORIZED HOLLYMATIC DEALER CALLED TO INSPECT AND REPAIR THE MACHINE. FAILURE TO FOLLOW THESE DIRECTIONS COULD RESULT IN SERIOUS PERSONAL INJURY.

SAFETY LABEL PLACEMENT



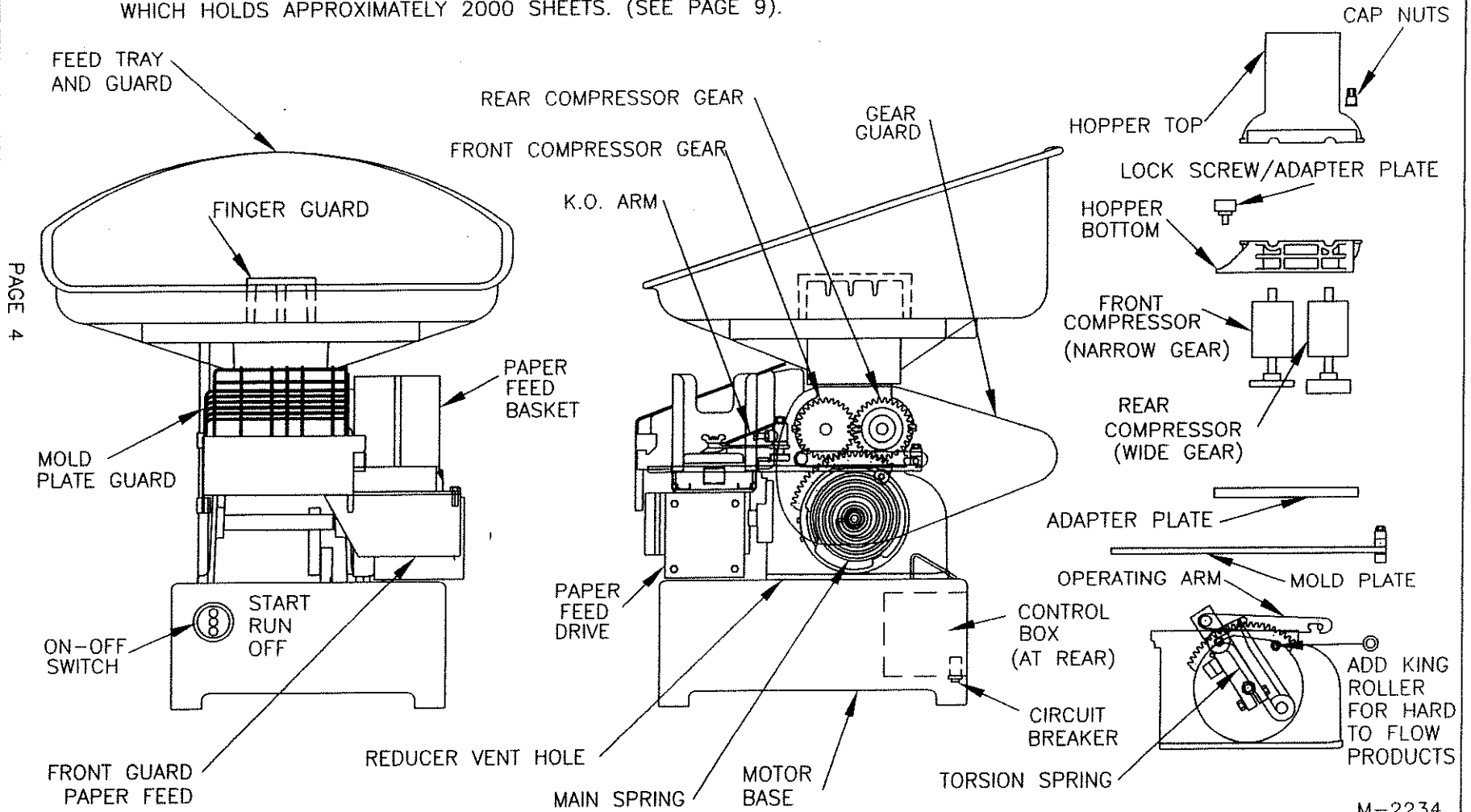
LABEL LIST

QTY.	PART NO.	DESCRIPTION
1	2290	NAMEPLATE WITH ELECTRICAL SPECIFICATIONS
1	500-0194	WARNING-KEEP HANDS FROM UNDER GUARD
1	900-0103	WARNING-DO NOT OPERATE WITHOUT GUARDS
1	900-0601	KEEP HANDS AWAY FROM MOVING PARTS
1	900-0607	GUARD MUST BE IN PLACE TO OPERATE
1	900-0609	UNPLUG FROM POWER SOURCE
1	900-1065	WARNING-KEEP HANDS FROM UNDER GUARD
1	900-0627	WARNING-DO NOT OPERATE W/O 4 GUARDS
1	900-0623	WARNING-DO NOT CLEAN MOVING MOLD PLATE
1	260-0017	DO NOT PRESSURE WASH
1	6123	C.S.A. MONOGRAM



DESCRIPTION AND PARTS LOCATION

GROUND MEAT IS PLACED IN A FEED TRAY AND HAND FED INTO A HOPPER. THE HOLLYMATIC SUPER THEN MOLDS THE PRODUCT INTO PREDETERMINED PORTIONS, INTERLEAFS PAPER SHEETS AND AUTOMATICALLY STACKS THE PRODUCT. BECOME FAMILIAR WITH THE PARTS, OPERATION AND MAINTENANCE OF THE MACHINE FOR LONG AND RELIABLE OPERATION. A SPECIAL PATENTED SIDE NOTCHED PAPER ALONG WITH A COMPATIBLE SHEET DISPENSING SYSTEM IS USED. IT IS DESIGNED TO FEED 4 1/2, 5 AND 5 1/2 INCH SQUARE PAPER AND 4 1/2 INCH OCTAGONAL PAPER. THE NEW PAPER AND FEEDER ENABLES QUICK LOADING OF THE SHEETS DURING OPERATION OF THE MACHINE. THE BLOCK OF PAPER TO BE LOADED IS SIMPLY DROPPED INTO THE DISPENSER BASKET WHICH HOLDS APPROXIMATELY 2000 SHEETS. (SEE PAGE 9).



SPECIFICATIONS

MOTOR 3/4 HP

115/230V, 60 HZ, 1 PH, 11.6A/5.8A
110/220V, 50 HZ, 1 PH, 12A/6A

200V, 60 HZ, 3 PH, 3.3A
230/460V, 60 HZ, 3 PH 2.6A/1.3A
220/380V, 50 HZ, 3 PH 2.8A/1.6A

FEED TRAY:

POLYPROPYLENE WITH INTEGRAL SAFETY GUARD

PAPER FEED:

AUTOMATIC FEED DISPENSER HOLDS 2000 SHEETS
4 1/2, 5, AND 5 1/2 INCH SQUARE AND
4 1/2 INCH OCTAGONAL SIDE NOTCHED PAPER

SPEED:

2100 OR 1800 PATTIES PER HOUR

MOLD PLATE:

STANDARD 3/16" TO 3/4" THICK METAL & PLASTIC
PATTY SIZE LIMIT UP TO WHAT WILL FIT WITHIN
A 5 1/8 INCH SQUARE AREA

COMPRESSOR
MOLDING CAPACITY:

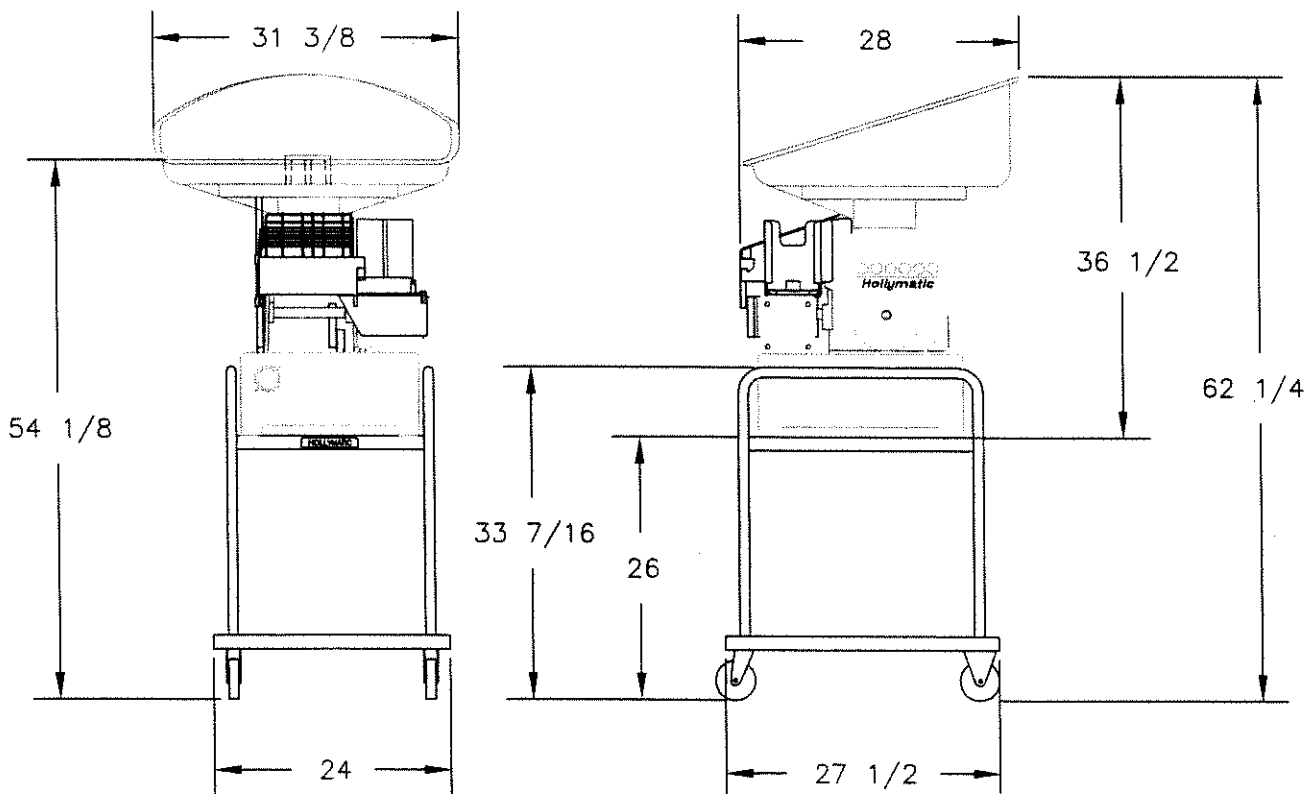
5 OZ. OR 8 OZ. DEPENDING ON COMPRESSOR INSTALLED

WEIGHT:

280 POUNDS (INCLUDING STAND)

CONVEYOR:

OPTIONAL 2 FOOT LONG CONVEYOR, WIRE OR FABRIC BELT,
INCLUDING PROGRAMABLE COUNTER FOR PATTY STACKING



DISASSEMBLY & CLEANING

THE SUPER MACHINE IS SHIPPED IN THREE CARTONS. THE FIRST CARTON CONTAINS THE PATTY MOLDING MACHINE, MOLD PLATE GUARD, GEAR GUARD, ONE WRENCH, OPERATORS MANUAL AND WARRANTY. THE SECOND CARTON CONTAINS THE FEED TRAY WITH PERMANENTLY ATTACHED FINGER GUARD. THE FACTORY HAS COATED THE ADAPTER PLATE AND MOLD PLATE WITH GREASE WHICH MUST BE REMOVED AND PARTS SANITIZED BEFORE OPERATING. THE THIRD CARTON CONTAINS THE EASY WAY STAND.

1. DO NOT OPERATE THIS MACHINE UNTIL IT HAS BEEN INSPECTED AND MADE READY FOR OPERATION BY AN AUTHORIZED HOLLYMATIC DEALER.
2. PLACE THE FEED TRAY ON THE HOPPER TOP. MAKE SURE ALL THE GUARDS ARE IN PLACE AND CONNECT THE MACHINE TO THE PROPER POWER SUPPLY. CHECK THE NAMEPLATE FOR THE PROPER MACHINE VOLTAGE.
3. CYCLE THE MACHINE BY JOGGING THE ON-OFF SWITCH UNTIL THE MOLD PLATE IS FULLY FORWARD. THE KNOCK OUT ARM SHOULD DROP TO ITS LOWEST POSITION AND COME PART WAY UP.

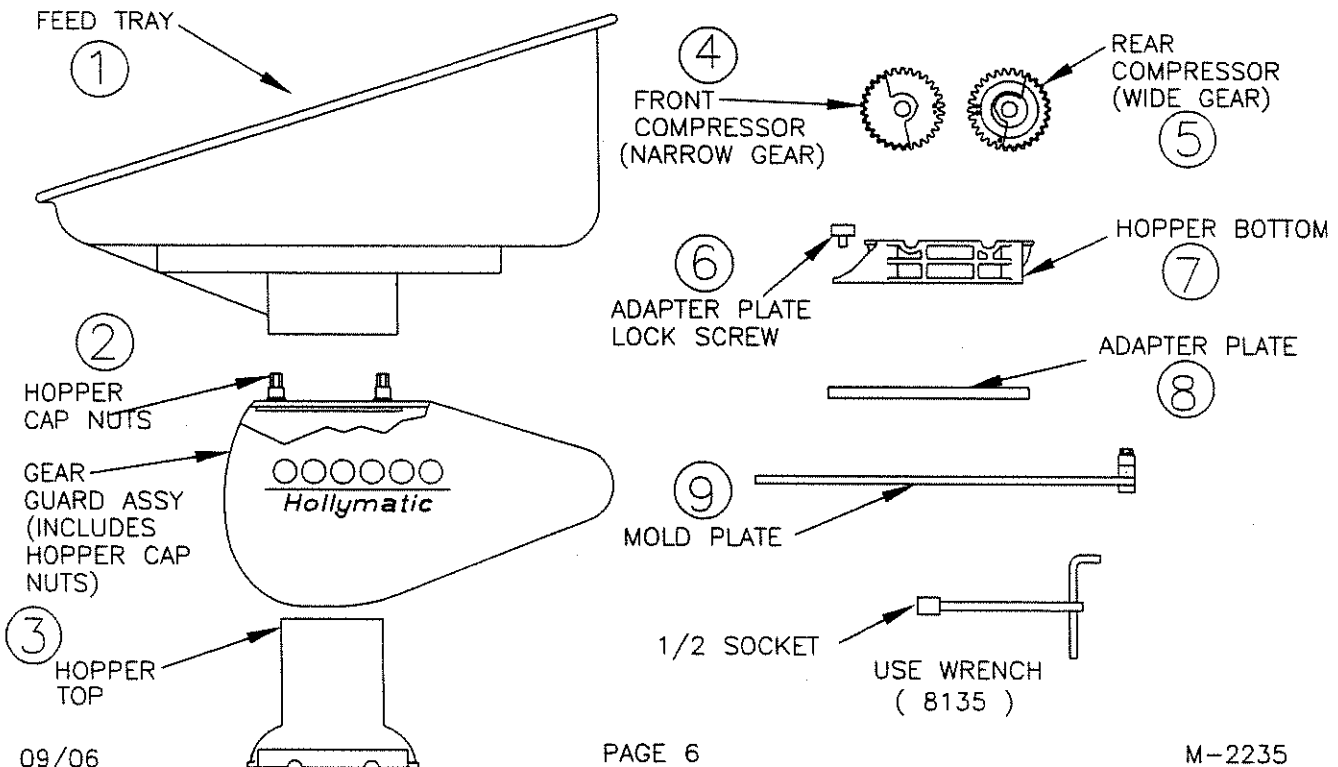
WARNING: BEFORE DISASSEMBLY OF THE MACHINE MAKE CERTAIN IT IS TURNED OFF AND UNPLUGGED FROM THE POWER SUPPLY. FAILURE TO OBSERVE THIS SAFETY PROCEDURE COULD RESULT IN SERIOUS PERSONAL INJURY.

4. USING THE WRENCH PROVIDED WITH THE MACHINE, REMOVE THE HOPPER CAP NUTS AND DISASSEMBLE THE MACHINE IN THE SEQUENCE SHOWN IN THE ILLUSTRATION BELOW.

5. WASH ALL OF THE PARTS IN WARM SOAP AND WATER UNTIL CLEAN. COOL PARTS IN COLD WATER BEFORE REASSEMBLY. OIL THE MOLD PLATE AND ADAPTER PLATE WITH HOLLY-FLUID. LUBRICATE THE COMPRESSOR SHAFTS WITH HOLLY-LUBE.

DO NOT PRESSURE WASH.

REMOVE PARTS IN THE FOLLOWING ORDER:



ASSEMBLY

WARNING: BEFORE ASSEMBLY OF THE MACHINE MAKE CERTAIN IT IS TURNED OFF AND UNPLUGGED FROM THE POWER SUPPLY. FAILURE TO OBSERVE THIS SAFETY PROCEDURE COULD RESULT IN SERIOUS PERSONAL INJURY.

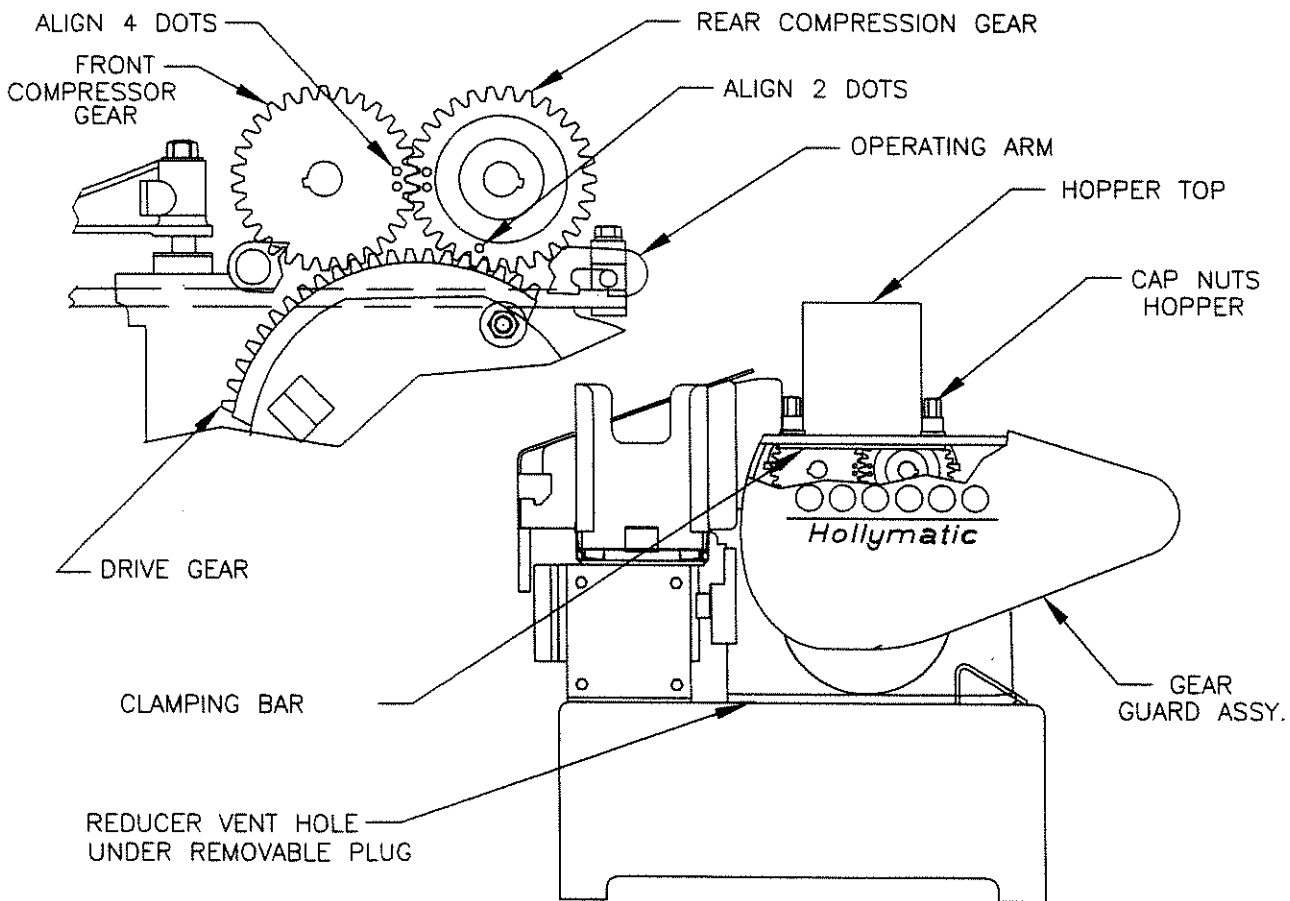
1. TO REASSEMBLE, REPLACE MOLD PLATE, OPERATING ARM AND HOPPER BOTTOM. MAKE SURE HOPPER BOTTOM IS SEATED FLAT AGAINST UPPER FRAME. ALIGN SINGLE DOT ON REAR COMPRESSOR GEAR WITH SINGLE DOT ON THE DRIVE GEAR. THEN ALIGN THE TWO DOTS ON FRONT COMPRESSOR GEAR WITH MATCHING DOTS ON REAR COMPRESSOR GEAR.

WARNING: GEARS MUST BE CAREFULLY ALIGNED AS ABOVE TO AVOID POSSIBLE DAMAGE TO MACHINE OR INJURY TO OPERATOR.

2. REPLACE HOPPER TOP. PLACE CLAMPING BAR AND GEAR GUARD OVER GEARS AND SECURE WITH CAP NUTS. MOUNT FEED TRAY ON HOPPER TOP.

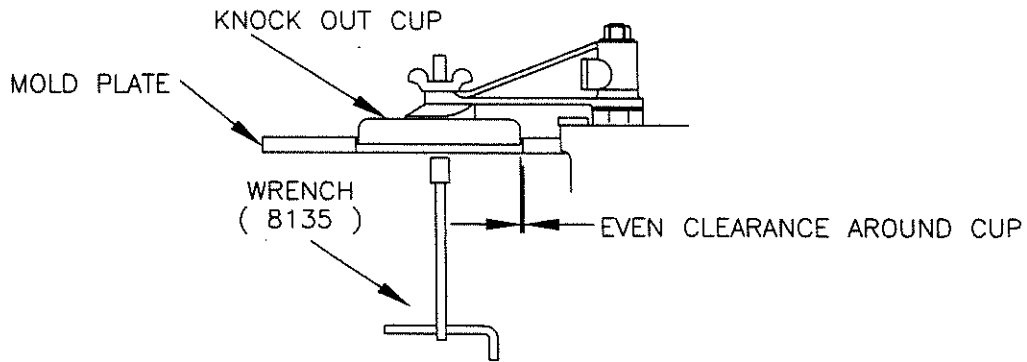
3. REMOVE REDUCER VENT HOLE COVER. PUSH STIFF WIRE THROUGH VENT HOLE UNDER REMOVABLE PLUG TO REMOVE WAX PLUG. FAILURE TO DO SO WILL CAUSE OIL LEAKAGE DUE TO INTERNAL PRESSURE BUILD UP. THIS IS ONLY REQUIRED WHEN STARTING A NEW MACHINE.

WARNING: DO NOT OPERATE THE MACHINE WITHOUT ALL GUARDS IN PLACE.

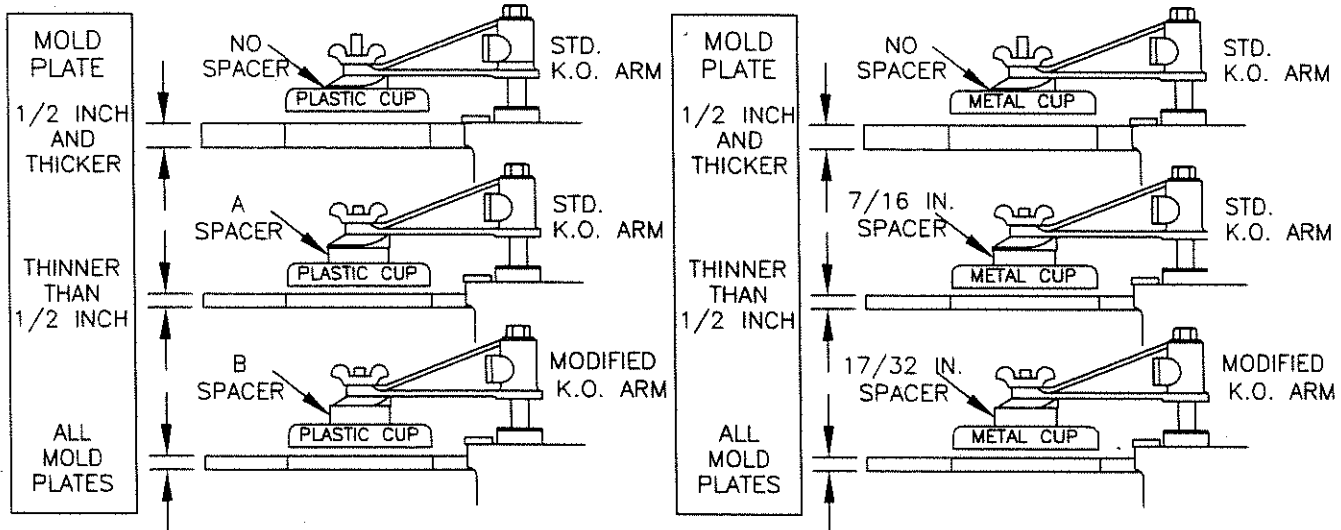
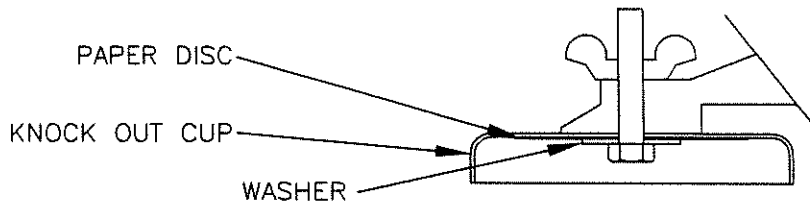


ASSEMBLY

3. THE MOLD PLATE SHOULD BE IN IT'S FORWARD POSITION AND KNOCK OUT ARM SLIGHTLY UP FROM ITS FULLY DOWN POSITION. INSTALL THE KNOCK OUT CUP ON THE ARM USING THE WRENCH PROVIDED. THE CUP SHOULD BE ALIGNED WITH THE HOLE IN THE MOLD PLATE. ADJUST FOR EVEN CLEARANCE OF THE CUP AROUND THE EDGE OF THE HOLE IN THE MOLD PLATE.



4. THERE ARE DIFFERENT KNOCK OUT CUP AND CUP SPACER ARRANGEMENTS DEPENDING ON THE MOLD PLATE THICKNESS AND WHETHER THE CUP IS PLASTIC OR METAL. THESE ARE SHOWN BELOW. ALSO, PAPER DISCS P/N 1144 (3 1/2 INCH DIA.) AND P/N 2164 (3 INCH DIA.) WHEN PLACED BETWEEN THE BOTTOM OF THE CUP AND WASHER IMPROVES THE RELEASE OF THE PATTY FROM THE CUP AND IMPROVES STACKING.



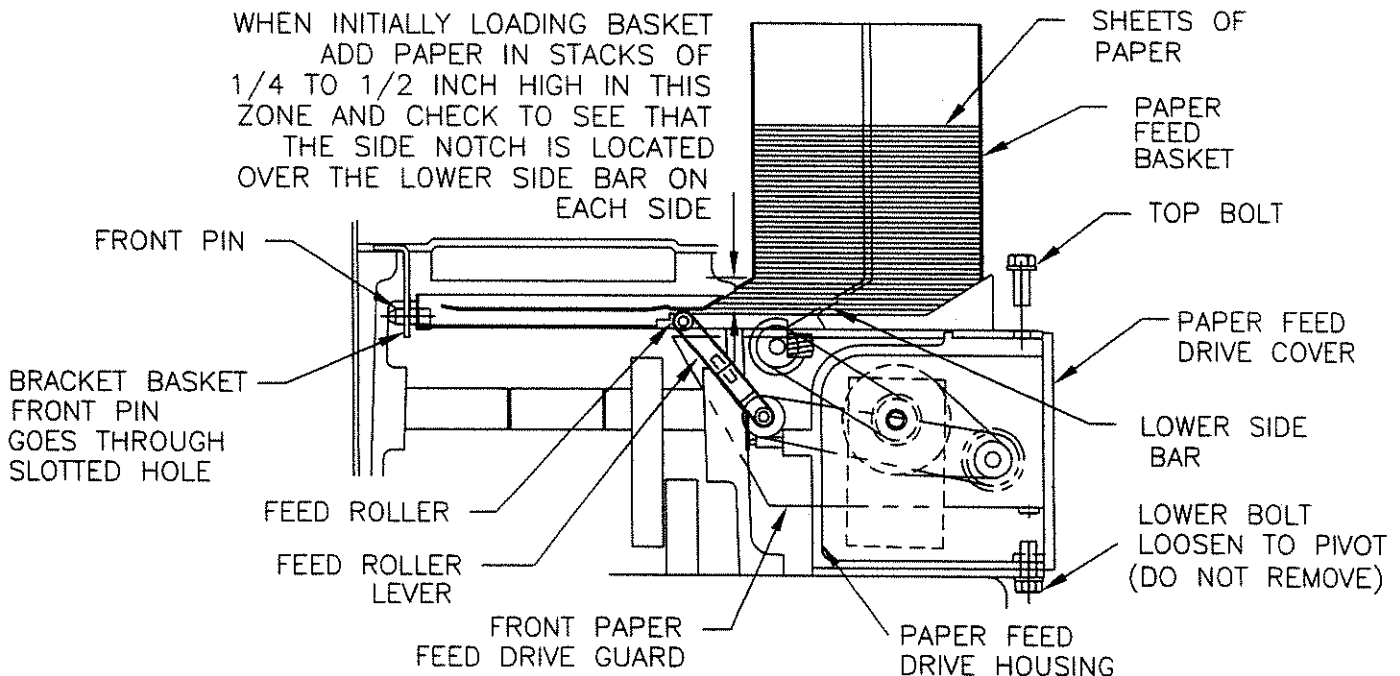
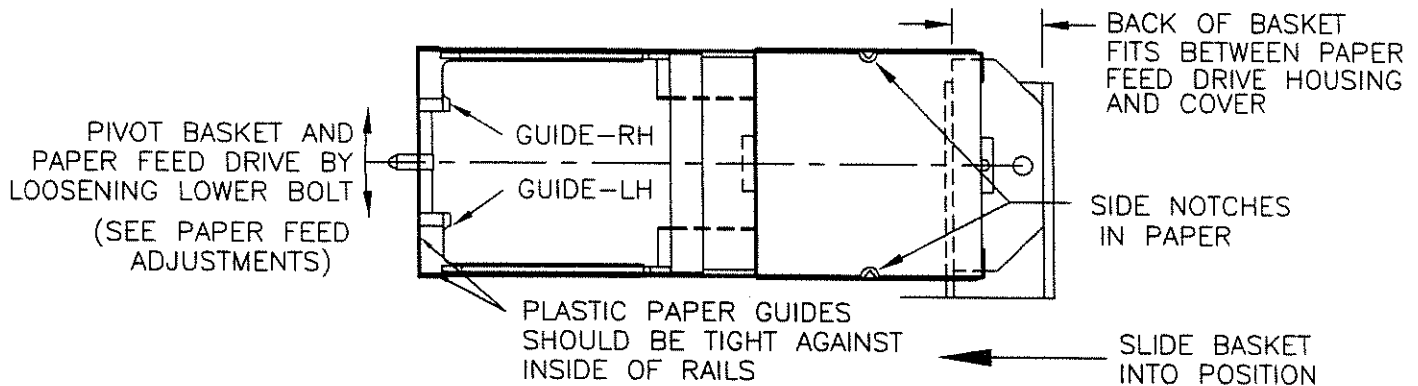
NOTE:
 MODIFIED KNOCK OUT ARMS ARE USED WITH MULTIPLE HOLE PLATES.
 IF A SINGLE HOLE PLATE IS USED WITH THE MODIFIED ARM,
 DIFFERENT SPACERS ARE USED AS SHOWN ABOVE.

ASSEMBLY

5. THE PAPER FEED BASKET IS MOUNTED BY SLIDING IT HORIZONTAL OVER THE PAPER FEED DRIVE HOUSING. THE BACK OF THE BASKET IS ATTACHED WITH A BOLT. THE FRONT OF THE BASKET HAS A PIN THAT FITS THROUGH A BRACKET WITH A SLOTTED HOLE. THE BELTS ON THE FEED ROLLER SHOULD MAKE CONTACT WITH THE BOTTOM OF THE BASKET SO THE SHEET OF PAPER WILL FEED OUT UNDER THE MOLD PLATE HOLE.

6. WHEN INITIALLY LOADING THE BASKET ADD PAPER IN STACKS OF 1/4 TO 1/2 INCH HIGH IN THE BOTTOM AND CHECK TO SEE THAT THE SIDE NOTCH IS LOCATED OVER THE LOWER SIDE BAR ON EACH SIDE. AFTER THIS INITIAL LOADING IS ACCOMPLISHED. THE REMAINING PAPER CAN EASILY BE INSERTED INTO THE BASKET BY ALIGNING THE SIDE NOTCHES IN THE PAPER WITH THE SIDE BARS IN THE BASKET.

7. TO REMOVE THE PAPER FEED BASKET, SWING THE FRONT PAPER FEED DRIVE GUARD OPEN. REMOVE THE TOP BOLT AT THE REAR OF THE BASKET. LIFT THE BACK END OF THE BASKET SLIGHTLY AND SLIDE BACK. PUSH DOWN ON THE FEED ROLLER LEVER SO THE FRONT OF THE BASKET WILL CLEAR.



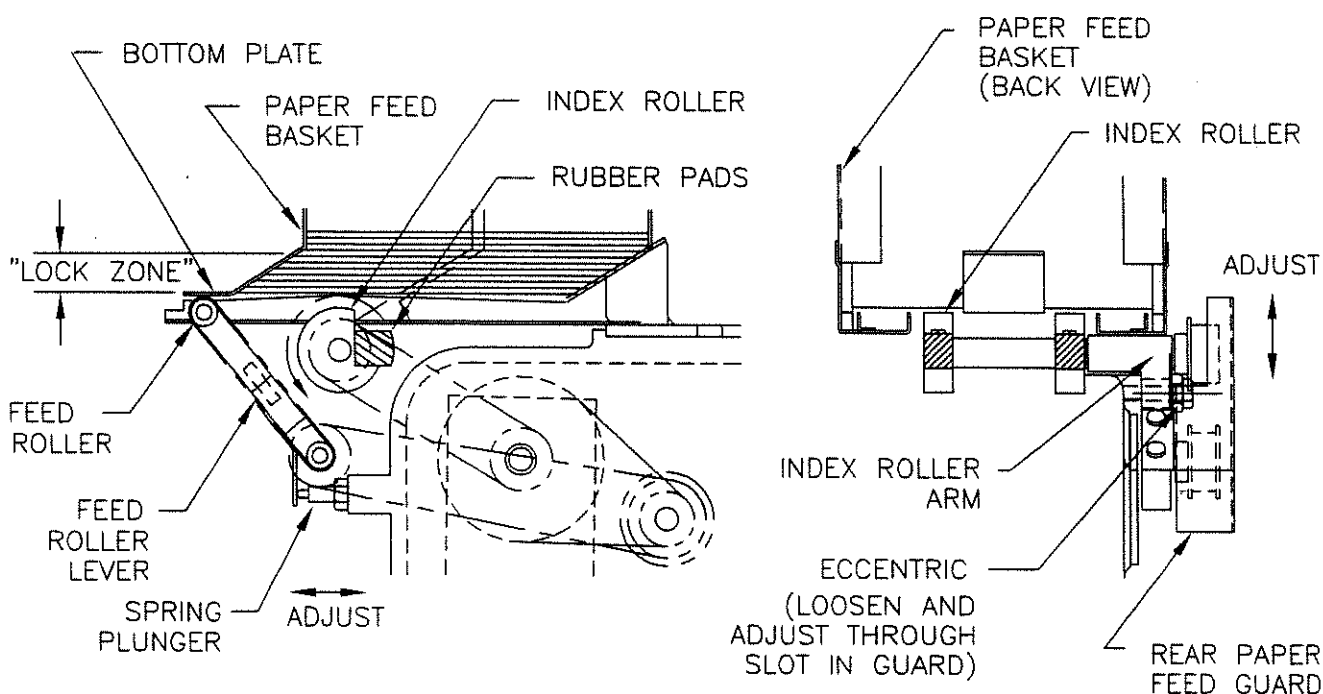
PAPER FEED SET UP AND ADJUSTMENTS

1. SOME MOLD PLATES HAVE THE MOLD PLATE HOLE MOVED FORWARD OR BACKWARD FROM THE CENTER OF THE KNOCKOUT ARM HOLE. TO ALIGN THE CENTER OF THE SHEET OF PAPER WITH THE MOLD PLATE HOLE, PIVOT THE PAPER FEED DRIVE WITH THE BASKET ATTACHED. THIS IS DONE BY LOOSENING THE LOWER BOLT (SEE PAGE 9) UNDER THE PAPER FEED DRIVE (DO NOT UN-THREAD COMPLETELY, LOOSEN ONLY). TURN THE ENTIRE PAPER FEED DRIVE TO THE DESIRED POSITION AND RE-TIGHTEN THE LOWER BOLT. USE THE INDICATOR MARKS ON THE BRACKET IN FRONT OF THE BASKET TO PIVOT THE BASKET IN 1/4 INCH INCREMENTS.

2. THE HEIGHT OF THE INDEX ROLLER ADJUSTS THE AMOUNT OF PRESSURE THE PADS APPLY TO THE BOTTOM SHEET OF PAPER. THEY ARE ADJUSTED BY LOOSENING THE ECCENTRIC ON THE SIDE OF THE INDEX ROLLER ARM. FIRST LOOSEN THE 7/16 HEX HEAD BOLT THAT HOLDS THE ECCENTRIC AND THEN TURN IT USING A 9/16 WRENCH TO RAISE AND LOWER. RAISE THE INDEX ROLLER IF THE BOTTOM SHEET DOES NOT MOVE FORWARD TO UNDERNEATH THE FEED ROLLERS. LOWER THE INDEX ROLLER IF TWO SHEETS OF PAPER MOVE FORWARD.

3. THE FEED ROLLERS NEED SLIGHT SPRING PRESSURE AGAINST THE BOTTOM PLATE OF THE BASKET TO WORK PROPERLY. ADJUST BY LOOSENING THE SPRING PLUNGER LOCKNUT (LOCATED UNDER THE FEED ROLLER LEVER). IF THE BELTS AROUND THE FEED ROLLER DO NOT TOUCH THE DISPENSER, UN-THREAD THE SPRING PLUNGER SLIGHTLY AND LOCK TO INCREASE PRESSURE. TOO MUCH PRESSURE CAUSES THE SHEET OF PAPER TO BIND AND NOT MOVE FULLY FORWARD UNDER THE MOLD PLATE HOLE. SCREW IN THE SPRING PLUNGER SLIGHTLY TO REDUCE SPRING PRESSURE.

NOTES: THE INDEX ROLLER PADS AND FEED ROLLER BELTS SHOULD BE DRY TO WORK THEIR BEST. CLEAN OFF ANY OIL OR WATER BEFORE USE. THE PAPER FEED BASKET MUST BE FILLED ABOVE THE "LOCK ZONE" SHOWN TO WORK PROPERLY.



OPERATING THE SUPER PATTY MACHINE

THE SUPER IS EQUIPPED WITH A SAFETY INTERLOCK SYSTEM. FOR THE MACHINE TO OPERATE, THE FEED TRAY MUST BE MOUNTED IN POSITION, AND THE MOLD PLATE GUARD MUST BE CLOSED.

LIFTING THE FEED TRAY OR OPENING THE MOLD PLATE GUARD WILL SHUT THE SUPER MACHINE OFF. TO RESTART, REPLACE THE FEED TRAY, CLOSE AND LATCH THE MOLD PLATE GUARD. MOVE THE ON-OFF SWITCH TO "START".

WARNING: IF THE INTERLOCK SHOULD FAIL TO OPERATE AS DESCRIBED IN THIS SECTION, IMMEDIATELY DISCONNECT THE POWER AND TERMINATE OPERATION. CONTINUED OPERATION WILL BE DANGEROUS AND COULD RESULT IN SERIOUS PERSONAL INJURY. CALL YOUR AUTHORIZED HOLLYMATIC DEALER FOR APPROPRIATE MAINTENANCE.

PLACE PRODUCT IN THE FEED TRAY AND MOVE SOME PRODUCT INTO THE HOLE ABOVE THE HOPPER. DO NOT PACK IN SINCE THE MEAT MUST BE FREE TO MOVE IN THE HOPPER. START THE MACHINE WITH THE "ON-OFF" SWITCH. AS PRODUCT IS MOLDED AND STACKED, REFILL THE HOPPER FROM THE FEED TRAY.

AS THE MOLD PLATE MOVES BACK AND FORTH TO FORM PATTIES, A THIN COATING OF PRODUCT IS SPREAD OVER ITS SURFACE. THIS COATING MAY ACCUMULATE ON THE EDGES OF THE KNOCK-OUT CUP OR IN FRONT OF THE HOPPER BOTTOMS.

WARNING: NEVER ATTEMPT TO REMOVE THIS EXCESS COATING OR LEAKAGE WHILE THE MACHINE IS RUNNING. THE MOVING PARTS CAN CAUSE SEVERE AND PERMANENT INJURY.

IT IS RECOMMENDED THAT THE LEAKAGE BE IGNORED UNTIL THE MACHINE IS TAKEN APART FOR WASHING, OR THE MOLD PLATE IS CHANGED. AS STACKS OF PATTIES ARE FORMED, REMOVE THEM CAREFULLY FROM THE TOP OF THE MOTOR BASE.

NOTE:

THE BEST FORMING TEMPERATURE OF GROUND BEEF IS GENERALLY IN THE RANGE OF 33 TO 40 DEGREES F. IF THE PRODUCT IS TOO COLD IT WILL BE DIFFICULT TO FILL THE PATTY, IF IT IS TOO WARM IT WILL BECOME STICKY AND NOT RELEASE EVENLY FROM THE KNOCK OUT CUP. THIS WILL CAUSE POOR STACKING.

MOLD PLATE CHANGE

WARNING: ALWAYS DISCONNECT THE MACHINE FROM ITS POWER SOURCE BEFORE DOING ANY SERVICING OR ADJUSTING OF THE MACHINE.

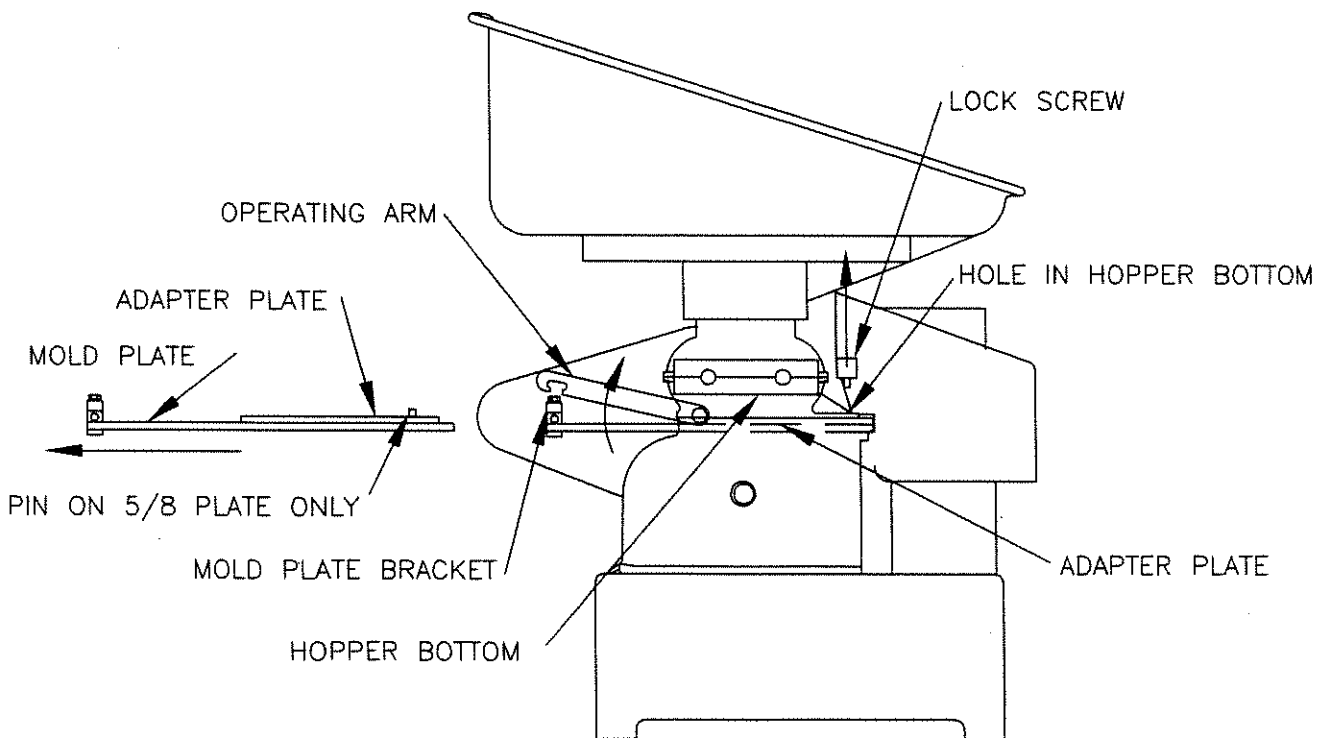
TO CHANGE THE MOLD PLATE ASSEMBLY, CYCLE THE MOLD PLATE UNTIL IT IS ABOUT HALF WAY TO IT'S REAR POSITION AND THEN DISCONNECT THE MACHINE FROM THE POWER SOURCE. REMOVE THE ADAPTER PLATE LOCK SCREW ON ALL ADAPTERS PLATES EXCEPT THE 5/8" THICK ADAPTER PLATE WHICH HAS A PIN.

LIFT THE OPERATING ARM OFF THE MOLD PLATE BRACKET. SLIDE THE MOLD PLATE AND ADAPTER PLATE OUT FROM THE REAR OF THE MACHINE, THEN REMOVE THE KNOCK OUT CUP.

MATCH THE MOLD PLATE WITH THE ADAPTER PLATE AND SLIDE IN FROM THE REAR OF THE MACHINE. NOTE: INSERT THE MOLD PLATE WITH THE STAMPED SIDE UP, THE RADIUS IN THE CORNER OF THE M P CHANNEL MUST MATCH THE RADIUS ON THE M. P. BOTTOM EDGE. CONNECT THE OPERATING ARM TO THE MOLD PLATE BRACKET. SLIDE THE ADAPTER PLATE SO THAT THE LOCK SCREW CAN BE INSTALLED IN THE ADAPTER PLATE.

WHEN USING THE 5/8" THICK MOLD PLATE, THE HOPPER BOTTOM MUST BE REMOVED (SEE DISASSEMBLY ON PAGE 2). INSTALL THE MOLD PLATE AND ADAPTER PLATE WITH PIN IN THE FRONT HOLE OF THE HOPPER BOTTOM.

CONNECT THE MACHINE TO THE POWER SOURCE AND THEN CYCLE IT FORWARD UNTIL THE KNOCK OUT ARM DROPS DOWN AND COMES UP SLIGHTLY. UNPLUG THE MACHINE FROM POWER SOURCE. INSTALL THE KNOCK OUT CUP WITH MATCHING MOLD PLATE.



PARTS KIT

TO MAKE IMMEDIATE REPAIRS ON THE SUPER, IT IS RECOMMENDED THAT THE USER HAVE A PARTS KIT, A #6547 PARTS KIT, WITH STANDARD KNOCK-OUT ARM, ADD A MODIFIED KNOCK OUT ARM #2361 TO YOUR KIT IF YOUR MACHINE WILL RUN A MULTI-HOLE MOLD PLATE (SEE PAGES 32A & 32B).

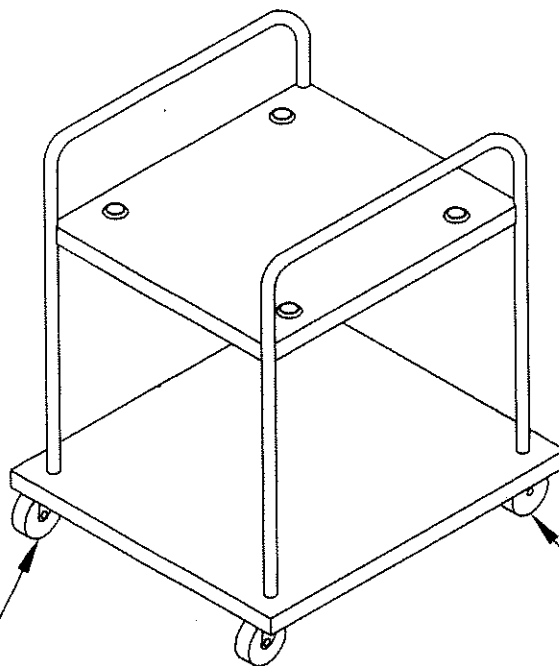
ITEM	PART NUMBER	DESCRIPTION	NO REQD
1	1144	FLAP VALVE - LARGE	1
2	2052	MOLD PLATE BRACKET	1
3	2061	K.O. ARM	1
4	6511	HOPPER CAP NUTS	2
5	8120	K.O.SPRING	3
6	6510	HOPPER CAP NUTS/G.GUARD	2
7	2238	RUBBER BUMPER-K.O. ARM	2
8	6507	M. P. CLAMP WELDMENT	1
9	735005140	5/16 - 20 NUT, SS	2
10	755000540	5/16" L/W SPLIT	2

ACCESSORIES

THE HOLLYMATIC SUPER IS DESIGNED TO USE HOLLY ACCESSORIES, AS HOLLY LUBE, HOLLY FLUID, AND THE PATTY PAK CONTAINER. CONTACT YOUR HOLLYMATIC DEALER FOR INFORMATION.

GREASE GUN
PART NO. 900-0010

PATTY PAK HOLDER
(FOR 4 1/2 & 5 ONLY)
PART NO. 900-0140



SWIVEL CASTER
PART NO. 2139

CASTER FASTENERS:
BOLT ASSORTMENT 2533-230
(5/16-24 X 5/8 LG HHCS
PART NO.725050240
5/16 INTERNAL LOCKWASHER
PART NO.755000540)

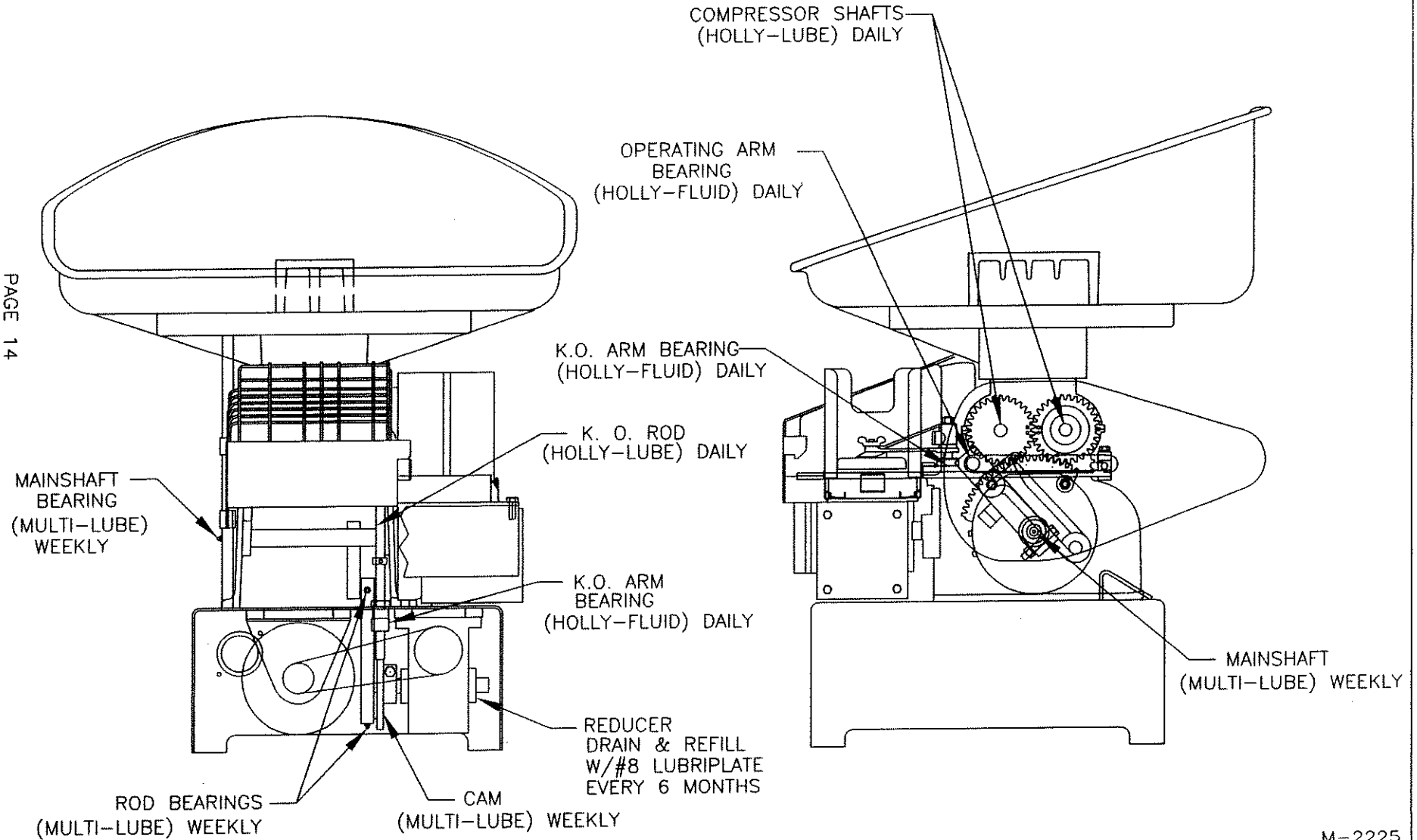
RIGID CASTER
PART NO. 2402

EASY WAY STAND COMPLETE
PART NO. 2533

LUBRICATION

WARNING: ALWAYS DISCONNECT MACHINE FROM ITS POWER SOURCE BEFORE SERVICING, ADJUSTING OR CLEANING MACHINE.

PAGE 14



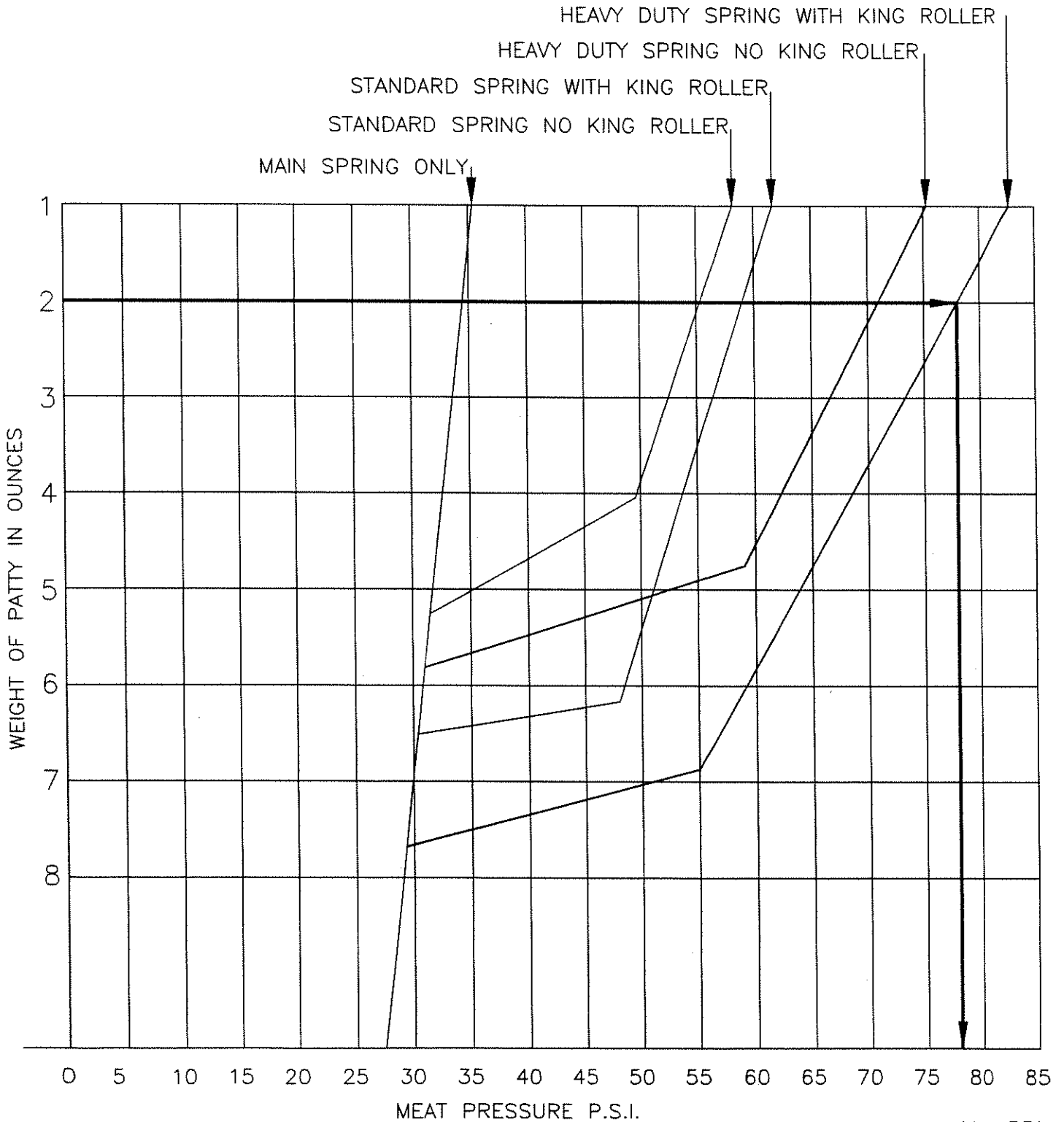
M-2225

LUBRICATION MAINTENANCE KIT

ITEM	PART NO.	DESCRIPTION	QUANTITY
1	900-0002	GALLON HOLLY FLUID	1
2	900-0005	3.5 OZ. TUBE, HOLLY LUBE	3
3	900-0012	PLASTIC DISPENSER-HOLLY FLUID	2
4	900-0010	GREASE GUN WITH EXTENSION	1
5	900-0026	GREASE CARTRIDGE-MULTI LUBE	3
6	0000-1144	PAPER DISC/K.O. CUP	1

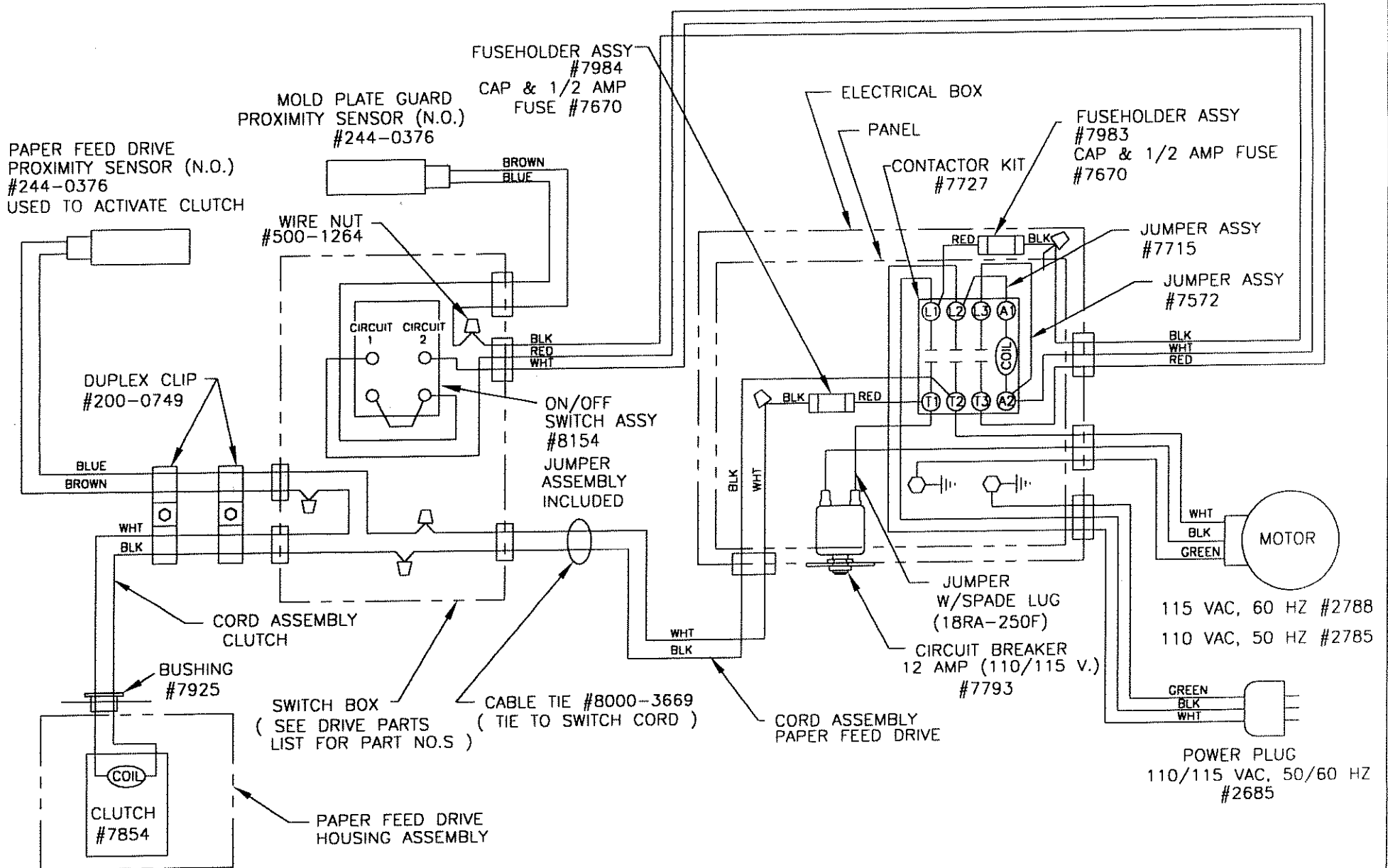
TORSION SPRING VS MEAT PRESSURE

THE GRAPH BELOW ILLUSTRATES THE RELATIONSHIP BETWEEN THE SPRING COMBINATIONS AND VARIOUS PORTION WEIGHTS BEING RUN ON THE SUPER PATTY MACHINE. IT IS BASED ON A MACHINE SET UP WITH AN 8 OUNCE "HIGH LIP" HOPPER BOTTOM. NOTE THE EXAMPLE ON THE GRAPH IN BOLD LINES. IF A 2 OUNCE PORTION IS BEING FORMED AND THE MACHINE IS SET UP WITH A HEAVY DUTY TORSION SPRING (P/N 2226) AND "KING" ROLLER (P/N 2268), THE MEAT PRESSURE WOULD BE IN THE RANGE OF 78 P.S.I. THIS WOULD PROBABLY RESULT IN EXCESSIVE LEAKAGE AND PREMATURE BREAKAGE OF PARTS. IT IS IMPORTANT THE MACHINE BE SET UP WITH A SPRING COMBINATION THAT WILL RESULT IN THE LOWEST POSSIBLE MEAT PRESSURE THAT WILL FORM THE PATTY.



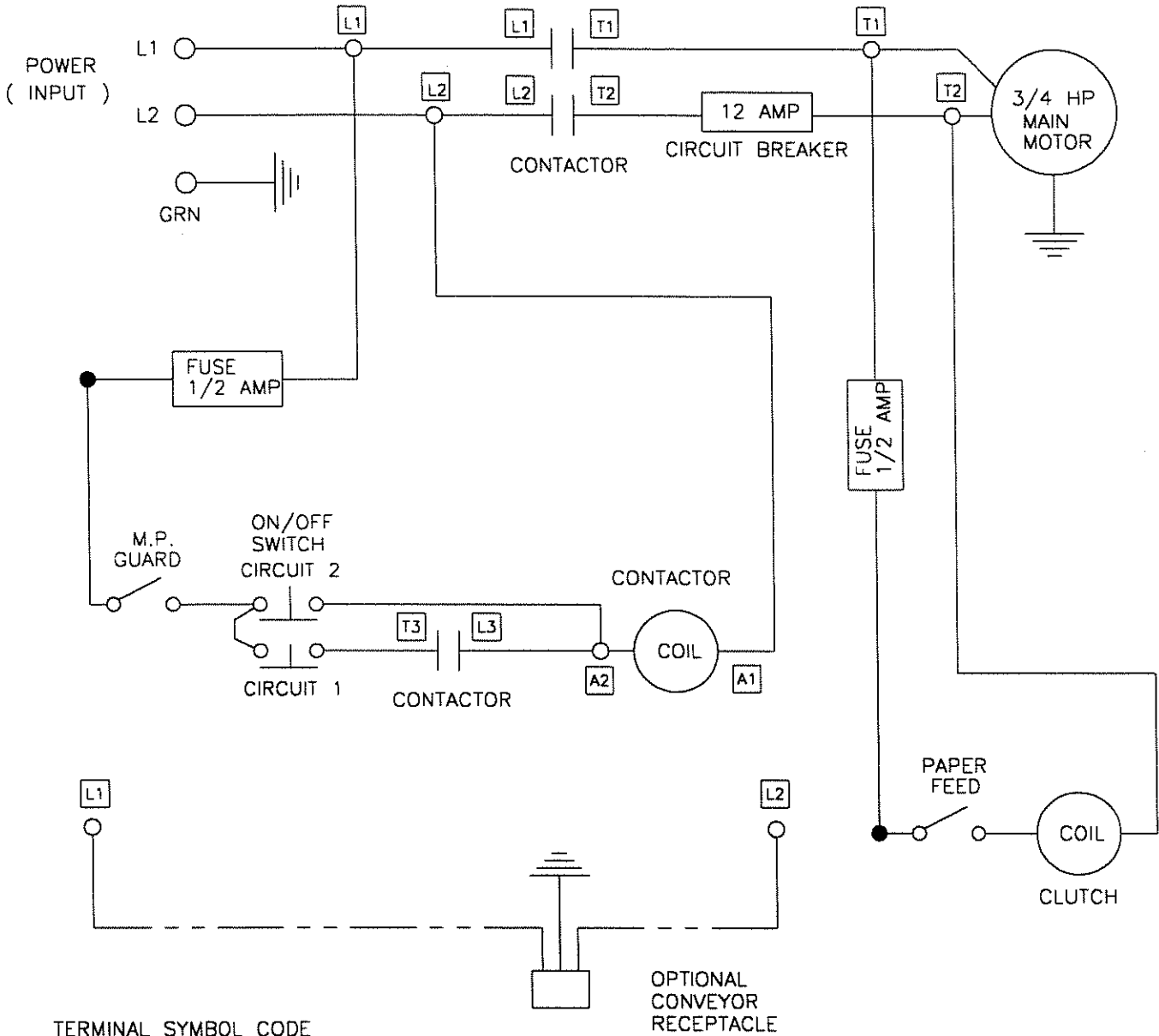
ELECTRICAL DIAGRAMS

115 V.A.C, 1 PH., 60 HZ
110 V.A.C, 1 PH., 50 HZ



ELECTRICAL SCHEMATIC DIAGRAM

115 V.A.C., 1 PH., 60 HZ
110 V.A.C., 1 PH., 50 HZ



TERMINAL SYMBOL CODE

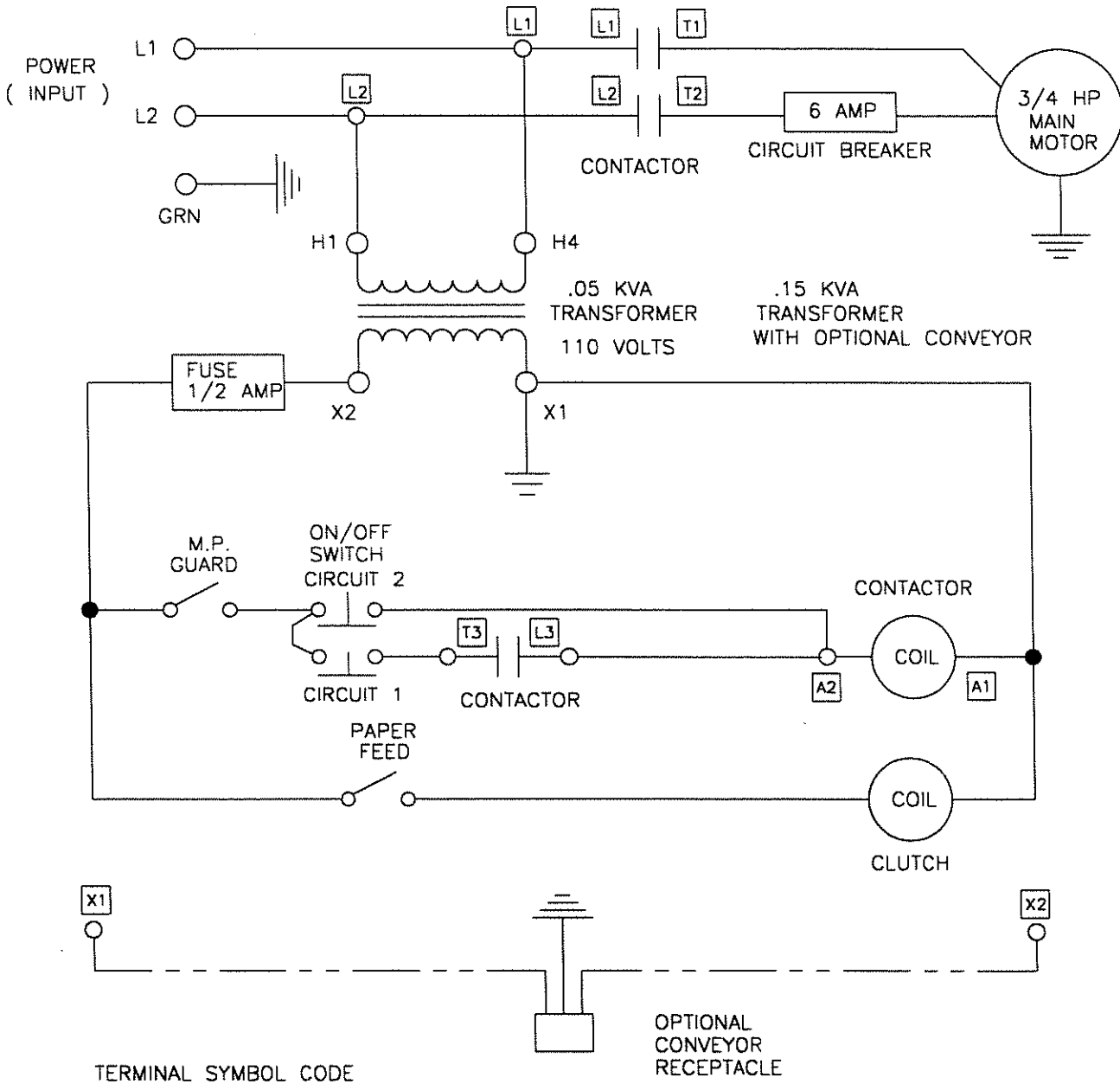
- ON COMPONENT
-
- WIRE NUT

ON/OFF
SWITCH LEVER POSITIONS

START: 2 CIRCUITS CLOSED
MOMENTARY
RUN: CIRCUIT 1 CLOSED
CIRCUIT 2 OPEN
OFF: 2 CIRCUITS OPEN

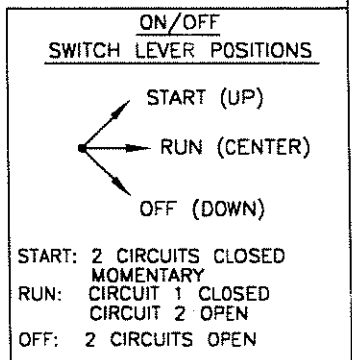
ELECTRICAL SCHEMATIC DIAGRAM

230 V.A.C., 1 PH., 60 HZ
220 V.A.C., 1 PH., 50 HZ



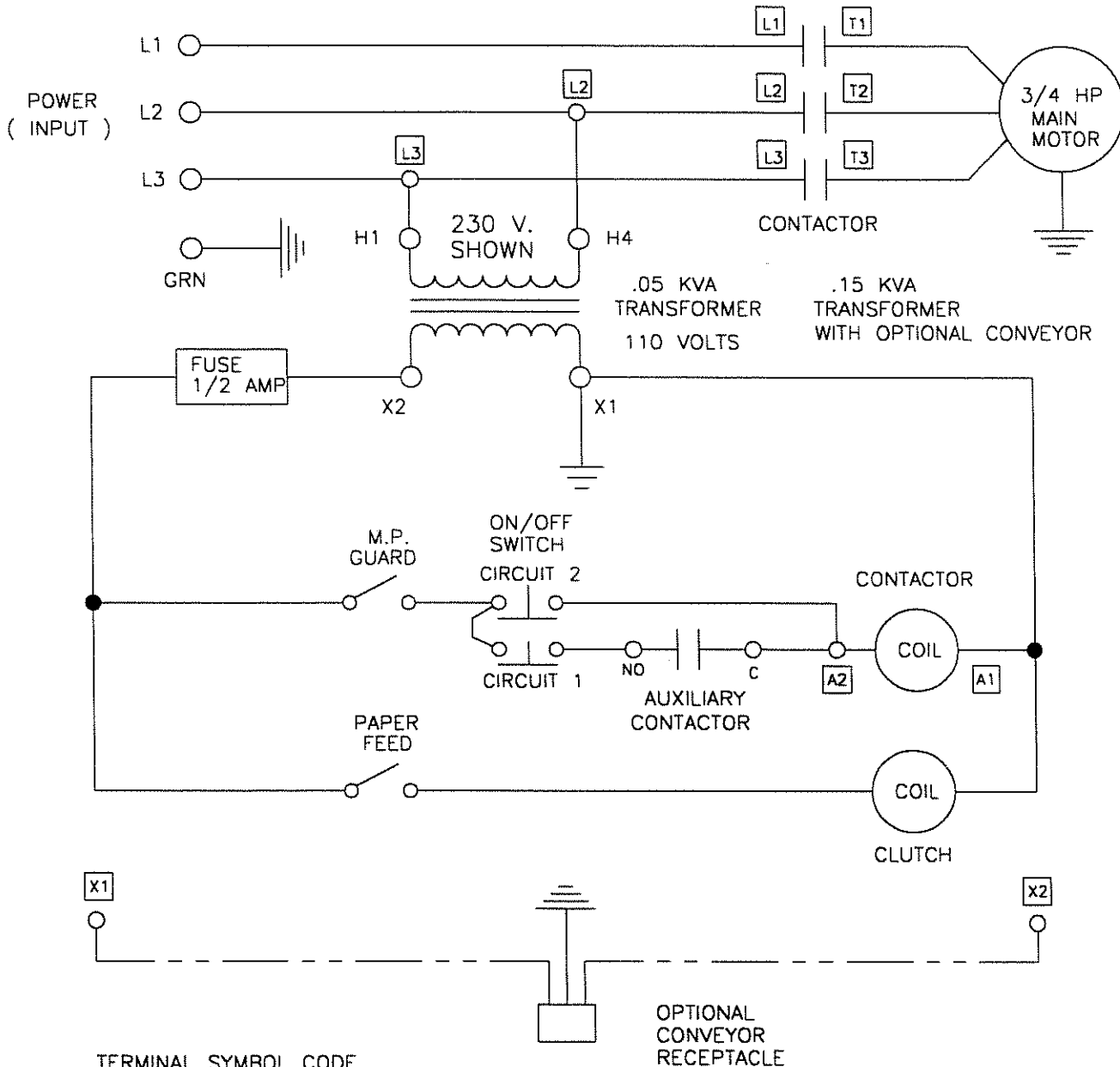
TERMINAL SYMBOL CODE

- ON COMPONENT
-
- WIRE NUT



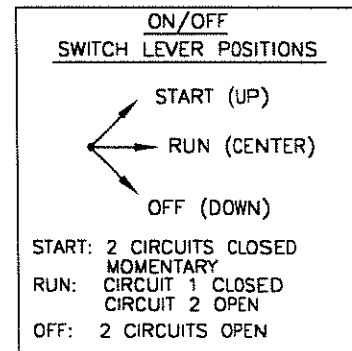
ELECTRICAL SCHEMATIC DIAGRAM

200 V.A.C, 3 PH., 60 HZ
 230 V.A.C, 3 PH., 60 HZ
 380 V.A.C, 3 PH., 50 HZ



TERMINAL SYMBOL CODE

- ON COMPONENT
- WIRE NUT





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