

Instruction and Repair Parts

a Laguna Tools Company

1809 Industrial Dr Grand Haven, MI 49417 800 YES DAKE

HAND OPERATED LABORATORY PRESSES

(Replaceable Heaters)

Model No.	Platen Size	Ton	Model No.	Platen Size	Ton	Model No.	Platen Size	Ton
44-225	9" x 9"	25	44-250	12 ½" x 12 ½"	50	44-275	19" x 19"	75
44-226	9" x 12"	25	44-251	12 ½" x 19"	50	44-375	19" x 19"	75
44-325	9" x 9"	25	44-350	12 ½" x 12 ½"	50	44-475	19" x 19"	75
44-326	9" x 12"	25	44-351	12 ½" x 19"	50			
44-425	9" x 9"	25	44-450	12 ½" x 12 ½"	50			
44-426	9" x 12"	25	44-451	12 ½" x 19"	50			

I. SETTING UP PRESS FOR OPERATION

The press is shipped completely assembled.

- 1. Place 25 & 50 ton presses on pedestal 33" high (44-001). 75 ton presses on pedestal 19" high (44-003).
- 25 & 50 ton presses are furnished with cord that fits into a range outlet. 75 ton press must be wired into customer's power supply.
- Connect hose from the water line to the water valve on the right hand side of the
- Connect drainage hose or pipe to manifold on the left side of the press.
- The press is now ready for operation.

Π. **OPERATING INSTRUCTIONS**

- 1. Switch on current by means of the toggle switches and platens will start to heat up.
- Heat is adjusted by turning the thermoswitch knobs in the back of each platen. Counterclockwise rotation increases the heat. Check temperature by reading thermometer in front of platens.
- 3. Place material to be processed between
- Close release valve on left side of base by turning handle clockwise.
- Bring platens in contact by pushing pump handle away from you until it stops.
- Push pump handle downwards for high pressure operation.
- Continue this pumping, reading the platen pressure on the gauge, until the desired pressure is reached.
- To open press, turn release valve handle in counterclockwise direction.

III. MOLDING INSTRUCTIONS

- 1. The mold is heated by the platens.
- The mold may be bolted to the platens or placed on the platens without any permanent fastening.
- The mold must be self-guided.

LAMINATING INSTRUCTIONS IV.

For instructions on laminating with vinyl plastic sheets contact DAKE. When using other types of laminating material contact the manufacturer who has technical data available.

- 1. Material not specifically made for laminating should be coated with adhesive compound before beginning process.
- 2. Place material to be laminated highly polished plates and blotters.
- 3. Apply a pressure of approximately 250 P.S.I. and heat approximately 3 minutes. Pressure, temperature and heating time varies with the type of material being used.
- For absolutely flat, clear laminations, cooling should take place in the press under pressure. Some work may be cooled outside the press; test the job on outside cooling to see if the finished product meets specifications.
- In the 4-platen press, material may be heated by the upper platens at the same time that other material is being cooled under pressure by the lower platens.

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V. ADDITIONAL INFORMATION

- Check oil level in base tank. Oil level should be at ½ inch from bottom edge of rear hand hole. If oil supply is down, replace with Mobil D.T.E. heavy medium (D.T.E. 26) or its equal. Reservoir capacity 25 ton press 6 quarts; 50 ton press 12 quarts; 75 ton 24 quarts.
- 2. If operation requires more daylight, remove the ram adapter from top of ram by lifting up platen resting on it.
- 3. Do not exceed pressure rating of press.
- 4. Do not allow red warning marks on ram to go above top of cylinder.
- 5. The electrical heating can be shut of on any platen by means of the individual toggle switches at left of pressure gauge.
- 6. Pilot light is on when platen heater is operating. If pilot light goes out, the thermoswitch has cut the heating current.

- 7. Servicing of pump and cylinder is achieved through the opening at the rear of the base.
- 8. To cool platens, turn off toggle switch and open water valve gradually so as to prevent too rapid a change in temperature.

VI. MAINTENANCE

- 1. If press loses pressure
 - a. Check the release valve (item 27) to see if it is closed tight.
 - b. Check all tube lines for leaks and tighten them.
 - c. Check cone check valve (item 11) to see if O-ring (item 12) is in good condition.
 - d. Check packings (item 6, 8 and 38) in pump and ram for wear or damage.



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SAFEGUARDING THE POINT OF OPERATION

ANSI B11.2 – Hydraulic Power Presses Safety Requirements for Construction, Care and Use

It is important that Dake press users have a clear understanding of their responsibility involving the care and use of their Dake hydraulic press, including point-of-operation safe guards. Dake strongly recommends that Dake press users obtain a copy of the current American National Standard Institute (ANSI) B11.2 standard, for a more complete understanding of their responsibilities.

ANSI B11.2 states the following, relative to point of operation safeguarding:

"Normally, only the employer (press user) can determine the requirements of the press productions system components, including the dies and methods for feeding. There fore, the employer is ultimately responsible to designate and provide the point-of-operation safeguarding system".

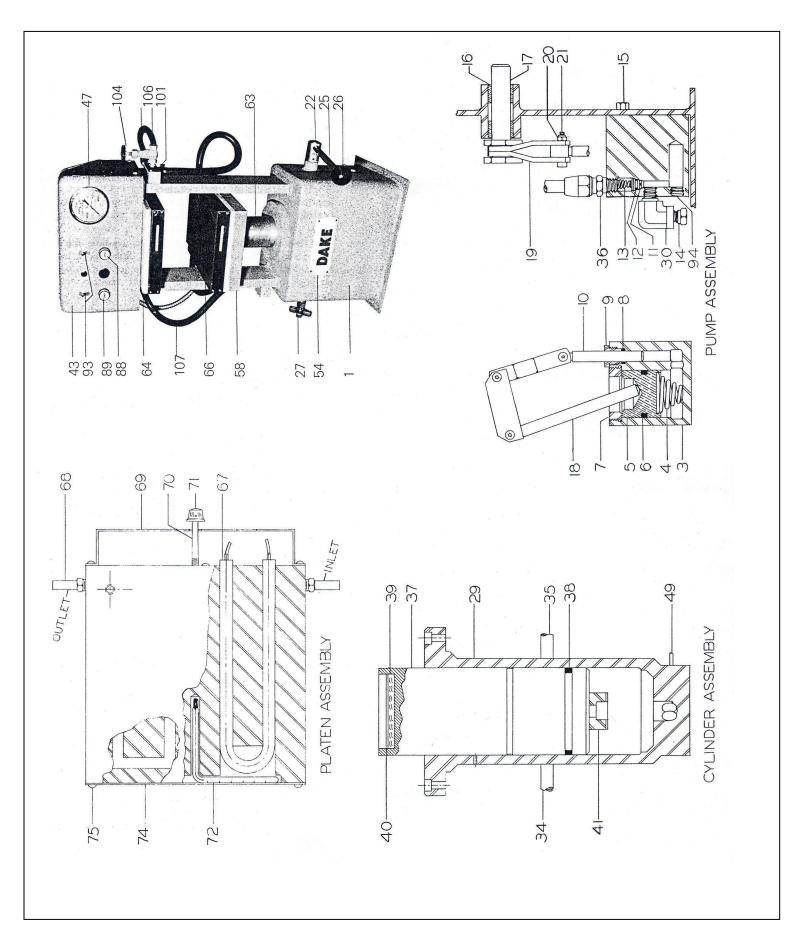
The standard also discusses additional responsibilities of the employer. Some of the key responsibilities are:

- The employer is responsible for the safety, use and care of the hydraulic power press production system.
- The employer is responsible to consider the sources of hazards for all tacks to be implemented on the hydraulic power press production system.
- The employer is required to eliminate or control identified hazards in the scope of their work activity.
- The employer is responsible for the training of personnel, caring for, inspecting, maintaining and operating hydraulic press production systems to ensure their competence.
- The employer is responsible to provide and ensure that point-of-operation safeguarding is used, checked, maintained and where applicable, adjusted on ever production operation performed on a press production system.

A complete and current copy of the ANSI B11.2 standard can be obtained by contacting the following:

American National Standards Institute 1430 Broadway New York, NY 10018

AMT – The Association for Manufacturing Technology 7901 Westpark Drive Mclean, VA 22102



		25 TON	50 TON	75 TON	
ITEM	PART NAME	PART NO.	PART NO.	PART NO.	QTY
1	Frame	703723	703708	703716	1
** 2	3/8" Pipe Plug	588	588	588	1
	1/2" Pipe Plug			596	1
	3/4" Pipe Plug	1745	1745	1745	1
3	Pump Body	17807	17807	17807	1
4 5	Conical Spring Low Pressure Piston	17808 17809	17808 17809	17808 17809	1
or 6	Packing L.P. Piston	17810	17810	17810	1
7	Piston Stop Collar	17811	17811	17811	1
₽ 8	Packing H.P. Piston	17812	17812	17812	1
9	Packing Nut	18021	18021	18021	1
10	High Pressure Piston	17813	17813	17813	1
11	Cone Check Valve	17814	17814	17814	1
₽ 12	O-Ring	8237	8237	8237	1
13	Exhaust Valve Spring	17815	17815	17815	1 1
14	Check Valve HAND PUMP ASSEMBLY	703703	703703	703703	1
	(Items 3 thru 14, 30 & 94)	703702	703702	703702	1
* 15	Hex Cap Screw 5/16"-18 x 1/2"	43313	43313	43313	2
16	Bushing	17925	17925	17925	2
17	Pump Shaft and Arm	17821	17821	17821	1
18	Push Rod	17822	17822	17822	1
19	Link-Pump Piston	17823	17823	17823	2
* 20	1/4" x 1 Soc. Hd. Shoulder Screw	43760	43760	43760	3
* 21	No. 10-24 Hex Locknuts	44350	44350	44350	3
22 ** 23	Handle Hub Spring Pin – 1/4" x 1 1/2"	17825 44337	17825 44337	17825 44337	1 1
** 24	Soc. Set Screw – 3/8" – 16 x 3/8"	43586	43586	43586	1
25	Handle	17826	17917	17917	1
26	Handle Ball	17827	17827	17827	1
27	Release Valve and Handle	17915	17915	17915	1
** 28	Straight Fitting	17920	17920	17920	1
29	Cylinder	17973	17873	17940	1
30	Street Elbow – 3/8"	66315	66315	66315	1
** 31	Socket Cap Screw 5/16" – 18 x 1"	43434			2
	Socket Cap Screw 3/8" – 16 x 1-1/4"	-	43450		2
** 32	Socket Cap Screw 1/2" – 13 x 2-1/4" Tube Elbow	 17974	1252	43474 1252	2 2
** 33	Straight Fitting	17845	17845	17845	2
34	Tube Assembly(Cylinder to Release Valve)	703724	703712	703717	1
35	Tube Assembly(Head Pump to Cylinder)	703725	703713	703718	1
36	Straight Fitting	1251	1251	1251	1
37	Ram	17975	17877	17941	1
☞ 38	Ram Packing	17976	17878	17942	1
39	Rubber Pad	17978	17880	17944	2
40	Compression Disk	17979	17881	17945	2
41 ** 42	Piston Bumper	17980	17918	17946	1
** 42 43	Socket Cap Screw 1/2" –13 x 1" Control Enclosure	43469 17843	43469 17882	43469 17947	1
** 44	Self-Tapping Screw No. 6-32 x 3/4"	43878	43878	43878	2
** 45	Angle Clips	17981	17952	17952	4
** 46	Rd. Hd. Machine Screw1/4" x 3/8"	43864	43864	43864	8
47	Gauge -3 1/2" Dia.	17957	17883	17948	1
** 48	Reducer - 1/4" - 1/8"	18002	18002	18002	1
49	Tube (Cylinder to Gauge)	17985	17876	17956	1
** 50	Inner Plate	17846	17884	17884	1
** 51	Inner Plate Gasket	17847	17885	17885	1
** 52	Cover Plate	17848	17886	17886	11
** 53	Hex Cap Screw – 1/4" – 20 x 1" Name Plate – "DAKE"	43305	43305	43305	4
** 55	Pop Rivets	2252 44351	2252 44351	2252 44351	4
** 56	Platen Adapter	17982	17887	17949	1
** 57	Socket Cap Screw – 3/8" – 16 x 1/2"	43445	43445	43445	- i -
58	Platen Mounting Plate				-
	9" x 9"	26098			1
	9" x 12"	17983			1
	12- 1/2" x 12- 1/2"		17888	-	11
	12- 1/2" x 19"		33772		11
** 59	19" x 19"	17851	17851	17950 	1
59	Mounting Plate Guide	1/851	1/851	17962	1
				17302	1

**************************************	ITEM	PART NAME	25 TON PART NO.	50 TON PART NO.	75 TON PART	
Has Cap Steve - 141-20 x 17	** 60		THE RESIDENCE OF THE PERSON OF	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	NO.	QTY
***Bit Hater Guide Step ***F65 Hater Cap Screw - 14*20 x 114** ***F67 Hater Cap Screw - 14*20 x 114** ***F68 Hater Cap Screw - 14*20 x 114** ***F68 Hater Cap Screw - 14*20 x 114** ***F69 Hater Cap Scre		Hex Cap Screw - 1/4"-20 x 1"				
Section			••			
Fig.					43306	
9 'X 9'			17977	17879	17943	1
9' x 12' 12' 12' 12' 12' 12' 12' 12' 12' 12'	04		00000			
12-11/2* x 12-12/2* 17-20						
12-1/2' x 19'						

Nex Clap Series \(-98 - 16 \times \) 2-142 \(-9 \) 43335 \(-9 \) 4-8 \(-18 \) 2-16 \(-18 \) 3-17 \(-18 \) 3-17 \(-18	*** 05				17966	
Hex Cap Screw = 36" - 16 x 3"	** 65					
Platens						4
9" x 9" 707950	66			43337	43337	4-8
9" x 12" 707951	00		707050			
12-1/2" x 12-1/2"						
12-112'x 19'						
19" x 19"		12-1/2" x 19"				
Heaters Floating						
9' x 12' - 120V	67					
12-112" x 12-112" - 240V					**	4
12-112' x 19'' - 240V						
19' x 19' - 240V						
19' x 19' - 480V						
68 Hose Fitting 35087 35087 33774 8 8 6 6 9 Terminal Enclosure 9" x9" and 9" x 12" 29014 3767 2 12-12" x 12-12" x 12-12" x 19" 3767 2 3769 2 2 19" x 19" 3769 2 2 3769 58789 58789 2 2 3769 58789 58789 2 2 3769 17 Thermoswitch Knob 17861 17						
Fernial Enclosure 9' x 9' and 9' x 12' 12-1/2' x 12-1/2' and 12-1/2' x 19'	68		35087			
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12-1/2 x 12-1/2 x 12-1/2 x 19"			29014	••		2
70 Thermoswitch				33767		
71 Thermoswitch Knob	70				33769	
72 Thermometer (100°-600° F) 18016 18016 18016 2 ***73 Insulation Tape						
***73 Insulation Tape						
Thermometer Cover Plate 9' x 9' and 9' x 12' 12' 12' x 12' 12' and 12'-1/2' x 19' 19' x 19'						
9" × 9" and 9" x 12" 29013			44030	44630	44630	1
12-1/2" x 12-1/2" and 12-1/2" x 19"		9" x 9" and 9" x 12"	29013			3
19" x 19" 19" 19" 33768 2						
75 Brass Rd. Hd. Mach. Screw No. 10-32 x 1/4" 43890 43890 43890 10 **76 Box Connector - 90° 17986 17986 17986 17986 4 **77 Flexible Conduit 17914 17916 17987 2 **PLATTEN ASSEMBLY (items 66 thru 77) 9" x 9" (120 or 240 Volt) 708996 2 9" x 12" (120 or 240 Volt) 707991 2 12-1/2" x 12-1/2" (240 or 480 Volt) 708096 2 12-1/2" x 12-1/2" (240 or 480 Volt) 708097 - 2 19" x 19" (240 or 480 Volt) 708097 - 2 19" x 19" (240 or 480 Volt) 708098 2 ***********************************					33768	
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PLATTEN ASSEMBLY (Items 66 thru 77)				17986	17986	4
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12-1/2" x 12-1/2" (240 or 480 Volt)		9" x 12" (120 or 240 Volt)				
12-1/2" x 19" (240 or 480 Volt)		12-1/2" x 12-1/2" (240 or 480 Volt)				
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**79				20731		
Relay 120 Volt 2 Pole 19938 19938 2 **82 Rd. Hd. Mach. Screw No. 10-24 x 1" 43850 43850 43850 4 **83 Terminal Block 19968 19968 19968 1 **84 Rd. Hd. Mach. Screw No. 10-24 x 1/2" 43847 43847 43847 2 **85 Rd. Hd. Mach. Screw No. 10-24 x 1/4" 43845 43845 43845 1 **86 Bulb – 120 Volt 17906 17906 17906 2 **87 Pilot Light 59542 59542 59542 2 88 Nameplate "Upper" 59544 59544 59544 1 **90 Capacitor 19952 19952 19952 2 **91 Terminal Strip 19967 19967 19967 2 **92 Rd. Hd. Mach. Screw No. 8-32 x 1/2" 43841 43841 43841 43841 43841 43841 93 Toggle Switch 17910 17910 17910 17910 17910 17910 19910 19960 1995 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
120 Volt 2 Pole			43305	43305	43305	4
120 Volt 3 Pole	81		40000	10000		
**82 Rd. Hd. Mach. Screw No. 10-24 x 1" 43850 43850 43850 4 **83 Terminal Block 19968 19968 19968 19 **84 Rd. Hd. Mach. Screw No. 10-24 x 1/2" 43847 43847 43847 2 **85 Rd. Hd. Mach. Screw No. 10-24 x 1/4" 43845 43845 43845 1 **86 Bulb – 120 Volt 17906 17906 17906 2 **87 Pilot Light 59542 59542 59542 2 88 Nameplate "Upper" 59544 59544 59544 1 89 Nameplate "Lower" 59545 59545 59545 1 **90 Capacitor 19952 19952 19952 2 **91 Terminal Strip 19967 19967 19967 2 **92 Rd. Hd. Mach. Screw No. 8-32 x 1/2" 43841 43841 43841 43841 4 93 Toggle Switch 17910 17910 17910 2 94 Flush Pipe Plug – 3/8" 44279 44279 44279 1 **95 Bumper 18020 18020 18020 1-2						
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** 92 Rd. Hd. Mach. Screw No. 8-32 x 1/2" 43841 43841 43841 43841 93 Toggle Switch 17910 17910 17910 2 94 Flush Pipe Plug – 3/8" 44279 44279 44279 1 ** 95 Bumper 18020 18020 18020 18020 1-2						
93 Toggle Switch 17910 17910 17910 2 94 Flush Pipe Plug – 3/8" 44279 44279 1 ** 95 Bumper 18020 18020 18020 1-2						
94 Flush Pipe Plug – 3/8" 44279 44279 1 ** 95 Bumper 18020 18020 18020 1-2						
**95 Bumper 18020 18020 1-2						
** 06 Cord Set						
		Cord Set	10020			1-2

		25 TON PART	50 TON PART	75 TON PART	
ITEM	PART NAME	NO.	NO.	NO.	QTY
** 97	Button – 1" Dia.	17923	17923	17923	1
** 98	Button – 1/2" Dia.	17924	17924	17924	1
** 99	Button – 7/8" Dia.	17994	17994	17994	1
** 100	Button – 3/4" Dia. (frame)			10814	2
101	Connector Block	35088	35088	17951	2
** 102	Hex Cap Screw - 1/4" - 20 x 1-1/2"	43307	43307		4
	Hex Cap Screw - 1/4" - 20 x 1-3/4"		-	43308	4
** 103	Pipe Plug – Brass 1/4"	33771	33771	33771	2
104	Water Valve	17902	17902	17902	1
105			-	E-1	
106	Hose	26914	26914	26917	1
107	Hose	26915	26916	26918	3
** 108	Hose Clamps	17933	17933	17933	8
** 109	Name Plate - Serial No.	17866	17866	17866	1
** 110	No. 2 x 3/16" Drive Screw	43573	43573	43573	4
** 111	Transformer	59543	59543	59543	1
Œ	PACKING REPAIR KIT (items 6, 8, 12, and 38)	705364	705365	705366	1

^{**} Not illustrated

NOTE: Parts Listed to Cover Mainly the 2 Platen Presses.

Always order by part number and name.

Please contact the factory for current pricing.

Gauge mounting hard ware – bolt 301914, nut 43902, washer 43640 Gauge PSI 0-6000 – 301869 for all models.

