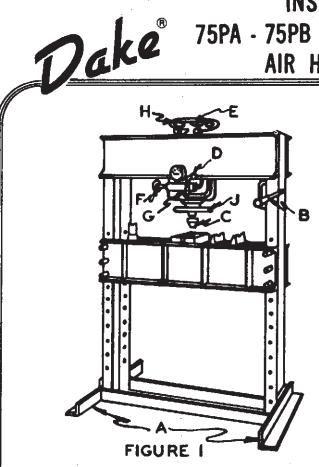
INSTRUCTIONS FOR

75PA - 75PB - 75PC - 75PD - 75PE - 75PF AIR HYDRAULIC PRESSES



I. SETTING UP THE PRESS FOR OPERATION For shipping convenience some parts are removed. Assemble these parts in the following order:

- 1. Bolt base angles "A" to uprights using bolts and nuts furnished. Shoulder base angles against the stops on uprights. NOTE: Base angles "A" should touch floor at all points. Use shims where necessary.
- 2. Place hand crank "B" over shaft which raises and lowers
- 3. Fasten screw nose "C" to ram screw by means of thumb screw provided.
- 4. Connect airline into street ell "D" at the top of control valve block.

NOTE: Avoid restrictions in air supply line to insure ample air to airmotor. To insure maximum of performance the air supply line should be a 1/2" pipe line if the distance from compressor to press is 0-30 feet, 3/4" line 30-60 ft., and 1" if greater than 60 ft. If press is furnished with two or more pumps, these pipe sizes should be increased accordingly.

5. To fill the press with oil:

A. Be sure and use a good clean light oil. We recommend Socony Vacuum's DTE Oil Light or its equal to obtain the best results. It is well to filter through cheese cloth but

B. Remove plug in street ell back of press. Fill with oil through street ell until oil is level with top.

C. Remove plug "E" at top of cylinder and with release valve "F" firmly closed, open throttle valve "G" so motor runs slowly filling cylinder with oil level to the top. Release throttle valve. This will remove air from dome of cylinder. D. Replace plug "E" at top of cylinder. Add enough oil through street ell to again bring it level with top and replace fill plug.

NOTE: Use a good grade of sealing compound on threads when replacing plugs.

6. Accessories for press:

A. Foot Valve

When using foot valve remove plug in tee of airline of press and connect hose from foot valve to this opening. Connect air supply line to inlet side of foot valve. Put plug in street ell "D" top of control block.

B. Air Regulator With or Without Gauge

When assembling these parts they must be installed in air supply line ahead of control valve or foot valve.

C. Air Filter

Must be installed ahead of air regulator when used or ahead of hand control valve or foot valve when air regulator is

7. Hand Throttle and Foot Valve

Press can be arranged so that hand throttle and foot valve can both be connected to press and either valve used to operate the ram. Connect hand throttle as described in Section I, paragraph 4, and foot valve as per Section 1, paragraph 6. If air regulator is used, it must be in supply line ahead of both valves.

II. OPERATION AND CONTROL

Press is now ready for operation, but before proceeding it is advisable for operator to acquaint himself with the controls.

- 1. Handwheel "H" at top of press is used to lock workhead in any desired position along head channels. Always lock workhead securely before applying any pressure. Models 25PA and 25PB workheads are in fixed position at center of head
- 2. Hand crank "B" is provided to raise or lower table channels to proper height for work. When desired height is obtained, insert table pins.

NOTE: Be sure all table pins are in place before applying any pressure. Also slack off on cable.

- 3. Small handwheel "F" at left of valve block operates ball valve which releases pressure on ram. This valve should be kept firmly closed and opened only a turn or two when it is desired to return ram to its up position.
- 4. Handwheel "J" above screw nose adjusts ram screw into or out of ram and facilitates adjusting screw nose with the work to be done.

NOTE: It is advisable to raise the table one or two holes rather than run the screw out to its limit of travel.

Important - Always leave a gap of 1/2" between bumper and reservoir before pressure is started. Damage to piston and collar may result if this is not carried out.

- 5. Presses are furnished with table plates, V-blocks, and screw nose to facilitate supporting work in process.
- 6. Throttle valve "G" located at front of control block is easily operated with slight hand pressure and automatically shuts off when pressure is released.
- 7. Relief valve in pressure line is set to unload at maximum pressure and should not be tampered with.

III. MAINTENANCE

- If press loses pressure:
 - A. Check all tubing joints for leaks and tighten nuts.
 - B. Leakage past release valve

Loosen packing nut and remove valve stem. Have small



container to catch whatever oil drains from this opening. Using brass rod as a drift reseat valve by striking sharply with hammer. After reseating replace valve rod and tighten packing nut. Oil that has drained out can be replaced in reservoir through street ell rear of press in pump base.

C. Leakage past check valves — Reseat valves using brass rod as a drift and striking sharply with hammer.

D. Leakage in throttle valve — Remove pipe plug rear of control block. Remove spring and valve stem. Clean out valve seat. Replace valve washer and reassemble valve. Air leakage past valve stem may be stopped by adjusting packing nut on the front of the control block.

2. Slow movement of ram

A. Check air supply line for restrictions to determine if air motors are getting ample supply of air.

- B. Check level of hydraulic fluid. Ram will not travel its full stroke if there is not enough fluid. Fill reservoir to level as per Section I, item 5.
- 3. Hydraulic fluid After considerble research and tests made with the cooperation of the pump manufacturer we recommend D.T.E. Oil Light as manufactured by the Socony Vacuum Oil Co. Inc. When making a complete change of oil in press it requires approximately 6 ¼ quarts.
- 4. Pump Enclosed with these instructions you will find repair parts sheet and instructions for care and operation of air motor.

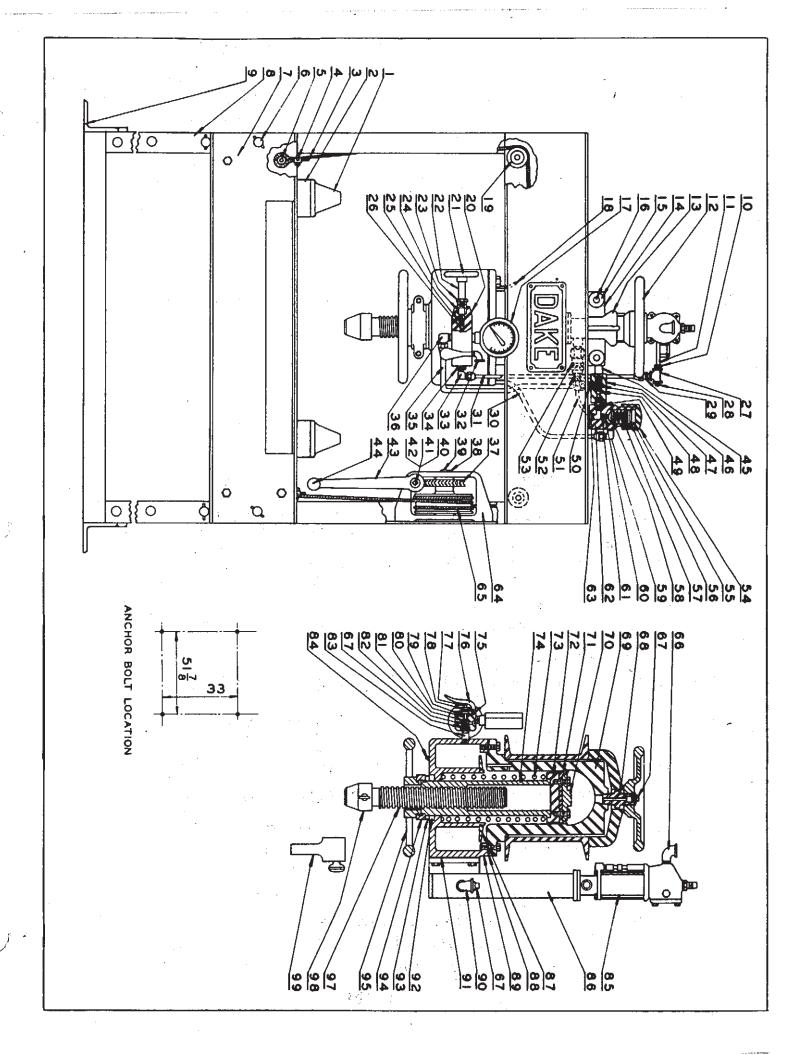
CAUTION: When disconnecting any parts of this machine relative to repairing be extremely careful that all parts are clean to prevent entrance of dirt in the hydraulic system.

REPAIR PARTS LIST Note: Always give Model Number and Serial Number of Press when Ordering Parts

	Part		. Iter	n Pa	rt	
Item	• -	Description	No	. No	o.	Description
No.	No.	•	1 -	700	100	Pressure Tube (Single and
1	336	Vee Block (2 Req.)	51	700	190	Double Pump)
2	702	Table Plate (2 Req.)			- 47	
2 3 4 5 6 7	726	Cable	52		247	Tube Nipple (Single Pump)
Ă	583	Cable Clamp (4 Req.)	1		249	Tube Tee (Double & Triple Pump)
<u> </u>	716	Table Spacer (4 Req.)	53		104	Check Valve
5	569	Table Pin (6 Reg.)	54	. 1	096	Relief Valve Cap
ŭ	701029	Table Channel 2 req.	1 55	1	095	Spring Retainer
8	701029	Frame Assembly	l 56	1	111	"O" Ring
9		Base Angle (2 Req.)	57	1	221	Spring
	566 1100		58		094	Ball Retainer
10		Reducer Bushing	59	. 1	248	Tube Ell
11	1101	Pipe Nipple (Single Pump Only)	. 60		222	Ball Valve
12	701759	Handwheel	61		220	Valve Seat
13	732	Yoke	62		093	Valve Body
14			63		588	Pipe Plug
15	592	Roller (4 Req.)				Hoist Frame
16	733	Roller Shaft (2 Req.)	. 64		725	Drum
17	729	Gauge	69		723	
18	632	Air Vent	66		108	Street Ell
19	727	Pulley (2 Reg.)	67		596	Pipe Plug (3 Req.)
20	1085	Control Block	68		731	Gauge Extension
21	10631	Handwheel	69)	693	Cylinder
22	1129	Valve Rod	70)	704	Supporting Ring
23	576	Packing Nut	† 7		706	Cup Leather
		Release Valve Packing (7 Req.)	' '		735	Piston Cap (Included with Piston Ass'y
†24	987	nelease valve racking (/ neq./	1 7		705	Ram Spring
25	1109	Ball Retainer	72		802	Piston Assembly
26	586	Ball	75		091	Valve Lever Pin
27	1115	Pipe Tee (Single Pump)	78		090	Valve Lever
	1333	Pipe Tee (Double & Triple Pump)			086	Air Valve Stem
28	1567	Pipe Plug (Single Pump)	73			
	588	Pipe Plug (Double & Triple Pump)	. 78	1	089	Packing Nut
29	1247	Tube Nipple (Single Pump Only)	† 79		122	Valve Stem Packing (3 Req.) ea. set
	1251	Tube Nipple (Double Pump)	80		092	Packing Washer
30	700198	By-Pass Tube	† 8		087	Air Valve
31	700195	Air Tube (Single Pump)	8:		880	Air Valve Spring
31	700199	Air Tube (Double & Triple Pump)	83		107	Pipe Nipple
32	1110	Street Ell	84	1	589	Pipe Plug (3 Req.)
		Tube Ell (Single Pump)	89	5 1	130	Pump (90 Lb. Air Pressure)
33	1248	Tube Ell (Double & Triple Pump)		1	133	Pump (145 Lb. Air Pressure)
	1252	Reducer Bush. (Single Pump Only)	80	5 1	131	Pump Base (Single Pump)
34	1102	Headical Bosil, (Single Forms Omy)		1	334	Pump Base (Double Pump)
35	700197	Pressure Tube	8	7	734	Baffle Plate
36	1252	Tube Ell	† 88		478	Cylinder Gasket
37	736	Worm Gear	89		695	Reservoir
38	737	Drum Key	96		590	Street Ell
39	724	Drum Shaft	† 9			Gasket
40	385	Worm			591	Oil Seal
41	384	Worm Shaft	† 9:		477	
42	386	Worm Key	t 9:		738	Piston Bumper
43	701653	Crank	9-		718	Clamp Ring
44	,0,000	9.9	9		1628	Screw Adjusting Wheel
45	1113	Pipe Nipple	9		559	Adjusting Screw
	1112	Check Valve Body	9:	3	572	Screw Nose
46		Check Valve Body Check Valve Spring	9	9	344	Vee Screw Nose
47	579 500				296	Repair Kit (Includes Items 24, 71,
48	586	Check Ball	1			79, 81, 88, 91, 92, 93)
49	1107	Pipe Nipple				
50	1251	Tube Nipple				

PARTS NOT ILLUSTRATED USED WITH DOUBLE PUMP ONLY

100 101 102	1329 1330 700171	Close Nipple Pipe Coupling Air Tube	103 104	700172 1335 1331	Pressure Tube Air Manifold (Double Pump) Close Nipple
titems in repair kit			•	•	



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 tasks 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