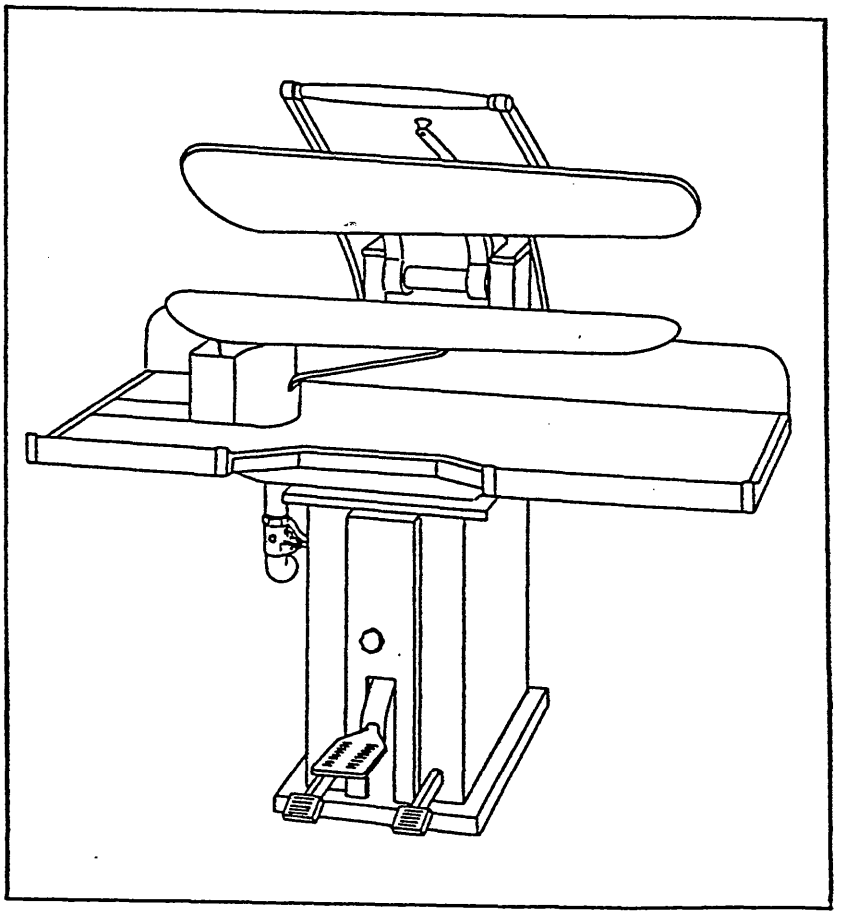
Pantex-Cissell B.V.
Winschoten · Holland

MANUAL PRESSES

TOPPER – MMT 19_C
UTILITY – MU 42_C - MUH 42_C
– MU 45_C - MU 47_C
LEGGER – ML 45_C

Service Manual



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Part No. D0127
MANUAL 145000
12/95

WARRANTY

Cissell Manufacturing Company (Cissell) warrants all new equipment (and the original parts thereof) to be free from defects in material or workmanship for a period of one (1) year from the date of sale thereof to an original purchaser for use, except as hereinafter provided. With respect to non-durable parts normally requiring replacement in less than one (1) year due to normal wear and tear, including, but not limited to, cloth goods, valve discs, hoses and iron cords, and with respect to all new repair or replacement parts for Cissell equipment for which the one (1) year warranty period has expired or for all new repair or replacement parts for equipment other than Cissell equipment, the warranty period is limited to ninety (90) days from date of sale. The warranty period on each new replacement part furnished by Cissell in fulfillment of the warranty on new equipment or parts shall be for the unexpired portion of the original warranty period on the part replaced.

With respect to electric motors, coin meters and other accessories furnished with the new equipment, but not manufactured by Cissell, the warranty is limited to that provided by the respective manufacturer.

Cissell's total liability arising out of the manufacture and sale of new equipment and parts, whether under the warranty or caused by Cissell's negligence or otherwise, shall be limited to Cissell repairing or replacing, at its option, any defective equipment or part returned f.o.b. Cissell's factory, tranportation prepaid, within the applicable warranty period and found by Cissell to have been defective, and in no event shall Cissell be liable for damages of any kind, whether for any injury to persons or property or for any special or consequential damages. The liability of Cissell does not include furnishing (or paying for) any labor such as that required to service, remove or install; to diagnose troubles; to adjust, remove or replace defective equipment or a part; nor does it include any responsibility for transportation expense which is involved therein.

The warranty of Cissell is contingent upon installation and use of its equipment under normal operating conditions. The warranty is void on equipment or parts: that have been subjected to misuse, accident, or negligent damage; operated under loads, pressures, speeds, electrical connections, plumbing, or conditions other than those specified by Cissell; operated or repaired with other than genuine Cissell replacement parts; damaged by fire, flood, vandalism, or such other causes beyond the control of Cissell; altered or repaired in any way that effects the reliability or detracts from its performance, or; which have had the identification plate, or serial number, altered, effaced, or removed.

No defective equipment or part may be returned to Cissell for repair or replacement without prior written authorization from Cissell. Charges for unauthorized repairs will not be accepted or paid by Cissell.

CISSELL MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, STATUTORY OR OTHERWISE, CONCERNING THE EQUIPMENT OR PARTS INCLUDING, WITHOUT LIMITATION, A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY OF MERCHANTABILITY. THE WARRANTIES GIVEN ABOVE ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. CISSELL NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT, ANY OTHER WARRANTY OR LIABILITY IN CONNECTION WITH THE MANUFACTURE, USE OR SALE OF ITS EQUIPMENT OR PARTS.

For warranty service, contact the Distributor from whom the Cissell equipment or part was purchased. If the Distributor cannot be reached, contact Cissell.

TABLE OF CONTENTS

TESTING

This press has been tested in the Pantex-Cissell factory to determine that it is safe and in working order. Final adjustments must be made to obtain the best results for your garments, using your steam and vacuum in your environment.

The Pantex-Cissell presses are manufactured and tested to the highest standards. The steam pressure vessels have been tested with liquid to a pressure of 250 psi (17 bars). They have been tested for leaks with live steam at a pressure 88 psi (6 bars).

On request, we can supply pressure certification and information regarding sizes and wall thickness of the vessel(s).

FOREWORD

Manual foot operated presses.

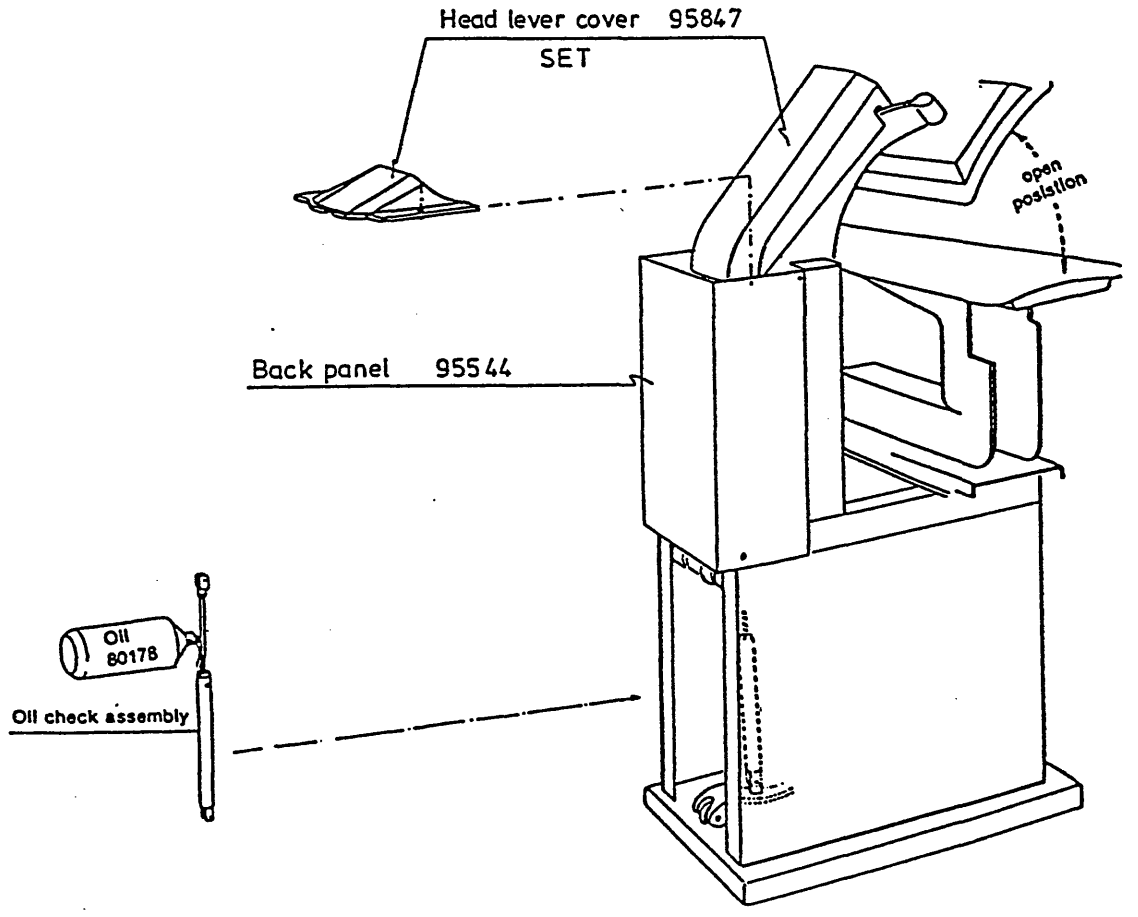
These modern presses are precision engineered to provide faster, easier operation than any other foot operated press. The head is closed by hand and by foot operation of the central pedal. The head is opened by foot operation of the front edge of the central pedal. The head steam is hand lever operated while the buck steam and vacuum are foot pedal operated. The improved leverage system, sleeve bearing pivot and the automatic, self-adjusting oil check assures smoother, faster head operation and quality finish.

INSTALLING THE PRESS

Rear assembly (see fig. 1)

1. Uncrate the press and remove the skid. Move the press into position.
2. Hold the head down and cut the twine that holds the head closed. Allow the head to rise slow to the open position.
3. Slowly pour 80178 oil in plastic bottle into the oil check assembly. Requires about one cup to fill
   Never use ordinary lubricating oil.
   Operating the press without adding oil at this time may damage the oil check assembly.
4. Mount the back panel to the frame.
5. Secure the back panel with screws.
6. Install the frame cover with screws.

FIGURE 1 – REAR ASSEMBLY



Assembly of the table (see fig. 2)

7. Remove the left hand side strip and angle stay from the table.

8. Slide the table into place and finger tight assemble the bolts in the reinforcing bars to the mounting lugs.

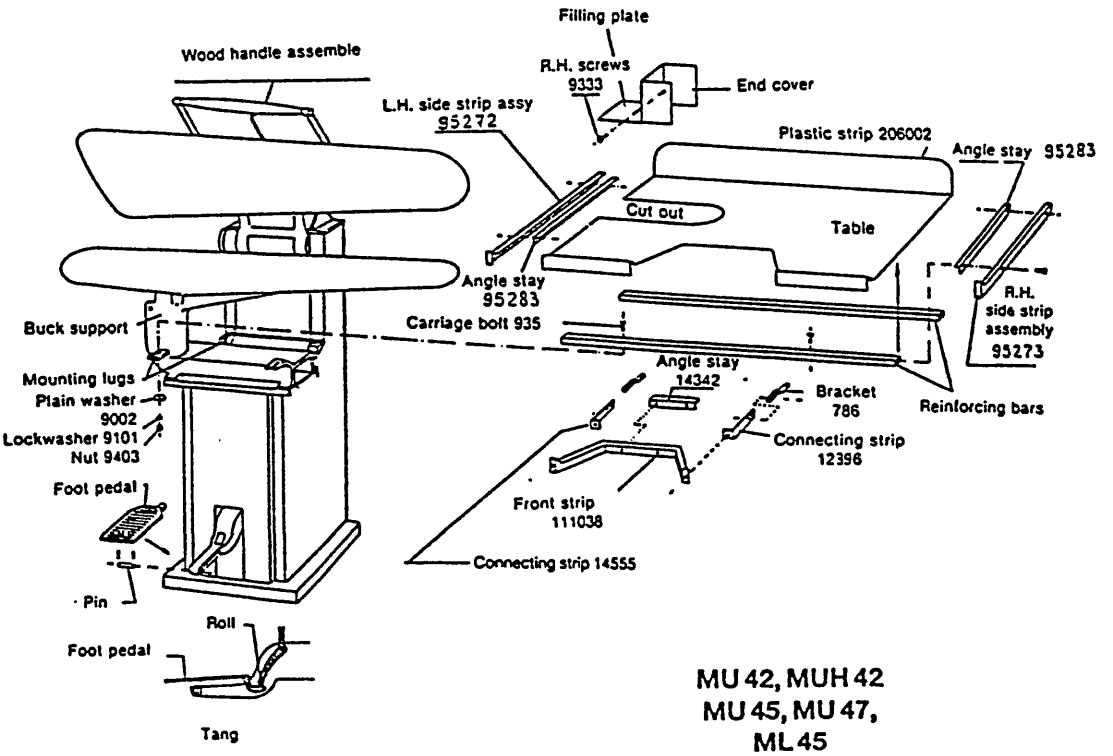
9. Assemble the end cover to the buck support. Assemble the angle stay on the bottom of the table and the left hand side strip on top of the table such that the end cover is sandwiched between. Move the reinforcing bars to line up with the holes in the angle stay.

10. Tighten the mounting lug bolts.

11.

12. Slide the foot pedal into place making sure the tang is under the trip roll as shown. Assemble the pin and cotter pins.

FIGURE 2 – ASSEMBLY OF THE TABLE



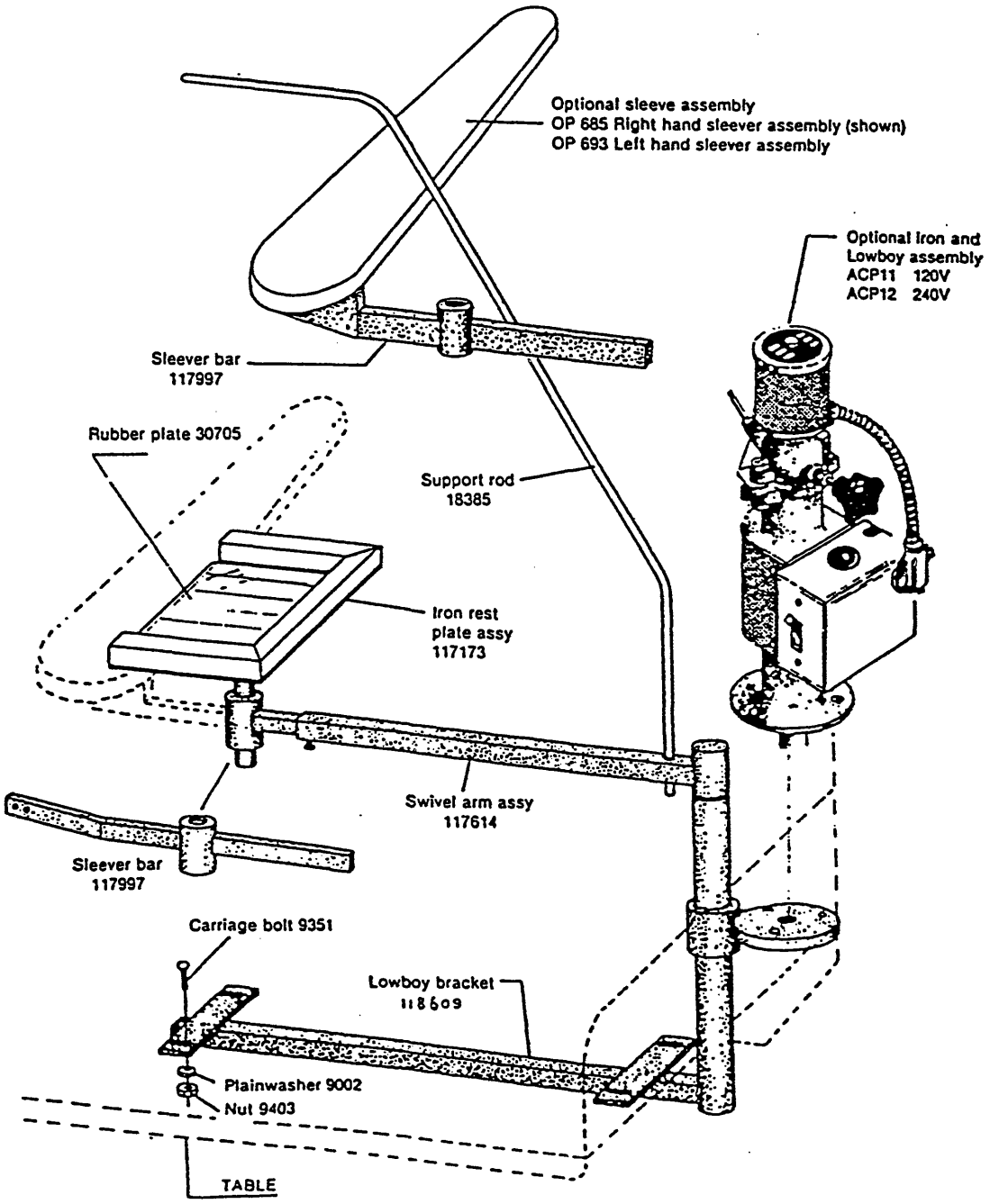
	MU 42, MUH 42 MU 45, MU 47, ML 45
Reinforcing bar	95441
Table	80952
End cover	95440
Filling plate	–

Iron rest plate group (see fig. 3)

13. Assemble the Lowboy bracket to the reinforcing bars using the bolts already in the bars. Ther assemble the swivel and support rod to the bracket, arm assembly, iron rest plate assembly.

14. Assemble any optional Cissell equipment such as the iron and Lowboy or the sleever assembly These will be packed in seperate containers and are not shipped in the press crate.

FIGURE 3 – IRON REST PLATE GROUP



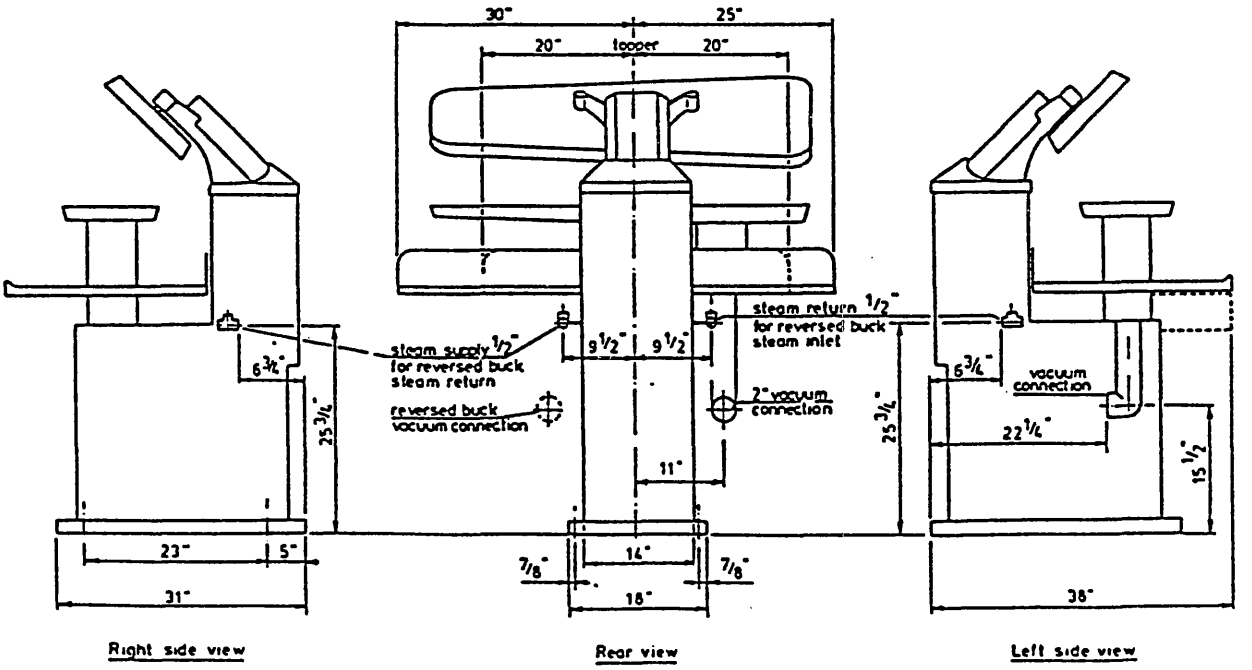
Steam and vacuum connections (see fig. 4)

15. Connect a ½ inch steam supply line to the press at a recommended pressure of 88 psi (about 6 bars). Use a reducing valve if needed to obtain the correct pressure. The press uses one boiler horsepower (34.5 lbs. per hour) of steam.

16. Connect a ½ inch steam return line to the press. Install a ½ inch steam trap good for 88 psi in the line.

17. Connect the vacuum using a 2 inch pipe to the vacuum supply. The vacuum supply should be rated two presses or more. (Example Cissell Dryset model 2 D or larger).

FIGURE 4 -STEAM, VACUUM CONNECTIONS



The buck of the press is the bottom padded part of the press upon which the garment to be pressed is placed. The head is the upper part of the press. The head has a wooden handle used for closing.

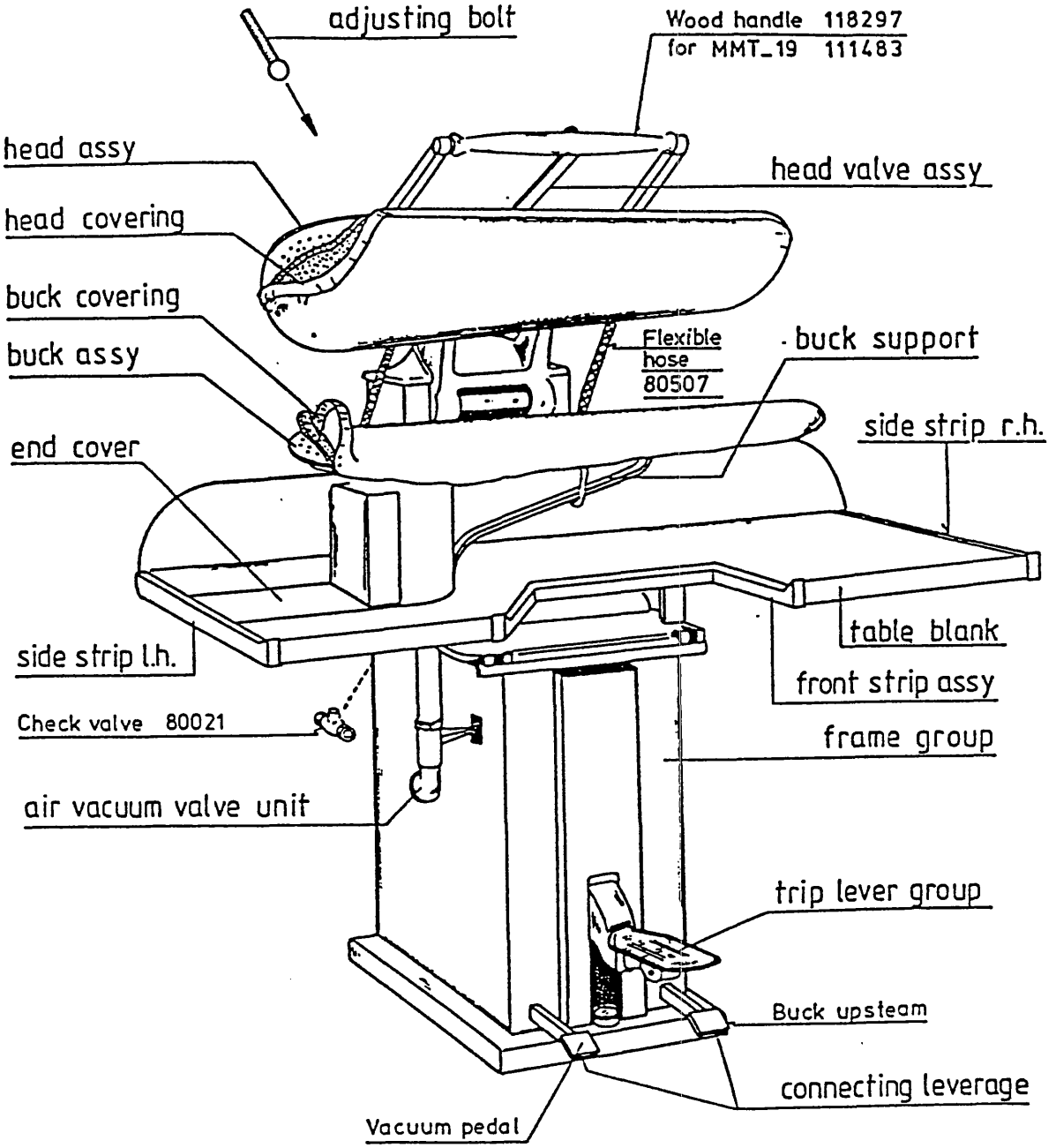
Three foot pedals are located near the floor at the front of the press. The center pedal is the head locking and release pedal. The left hand pedal is the vacuum pedal. The right hand pedal activates the buck valve which ports upsteam to the buck.

One black knobbed lever is located on the head. This lever operates a head valve for porting steam to the head.

OPERATION OF THE MANUAL PRESS

Allow the press to warm up

Lay the garment to be pressed on the buck. Close the head by pulling down on the wood handle of the head. Apply pressure and lock the head by stepping on the middle foot pedal and applying toe pressure. If head steam is desired press down on the head steam valve lever. If buck upsteam is desired step on the right hand foot pedal. Both may be operated at the same time. The buck can be opened by stepping on the front edge of the middle foot pedal.
Depressing the left hand foot pedal causes the vacuum valve to open and air is drawn through the garment for proper drying. Lay the garment to a new position and repeat the above procedure as needed.


adjusting bolt
Wood handle 118297
for MMT_19 111483
head assy
head valve assy
head covering
buck covering
buck assy
Flexible
hose
80507
buck support
side strip r.h.
end cover
table blank
front strip assy
side strip l.h.
Check valve 80021
frame group
air vacuum valve unit
trip lever group
Buck upsteam
connecting leverage
Vacuum pedal

MAINTENANCE

1. Once per month check oil level in oil check assembly. Use only # 80178 oil. Never use ordinary lubricating oil.

2. The main pivot of the press head lever is fitted with sleeve bearings that are factory lubricated for the life of the machine.

3. Lubricate linkage as needed with ordinary oil.

ADJUSTMENTS

Head lever – . As the pads on the press wear, the pressure on the head may decrease which may be indicated by a poor finish of garment. This pressure can be easily adjusted by turning the two adjusting bolts on top of the head.

Trip lever – The adjusting knob located on the front of the machine just above the middle foot pedal is used to set the locking point.
Turning the knob clockwise increases the downward foot force required to cause the pedal to lock, this increases the head pressure.

Head valve – This valve is equipped with an adjusting screw to meter the flow of head steam. Turning the screw counter clockwise increases the flow of steam.

Buck steam linkage – shows the linkage needed for buck steam operation. The valve lever rod visible under the table can be rotated by hand. With no pressure in the foot pedal turn this rod counter clockwise as viewed from the top so that no steam flows into the buck. Depression of the right hand pedal should then give a good flow of steam.
If there is a poor flow of steam because the pedal doesn't have enough travel, then turn the valve lever rod clockwise. If a good adjustment cannot be made adjust the buck valve, see below.

Buck valve – This valve is set at the factory and normally would not be adjusted. In order to increase the buck steam, loosen the jam nut and turn the hex stem box counter clockwise.

Oil check – The oil check assembly is adjusted at the factory that no metal parts touch either at the top or bottom of the stroke.
Observe externally and look to see that the jam nut does not touch the spindle guide. Observe internally, by listening for the plunger bottoming on the top or bottom. Adjustment is made by loosening the clevis jam nut and rotating the clevis. If bottoming occurs on the upstroke, turn clevis counter clockwise. If bottoming occurs on the downstroke turn clevis clockwise.

MECHANICAL ADJUSTMENTS

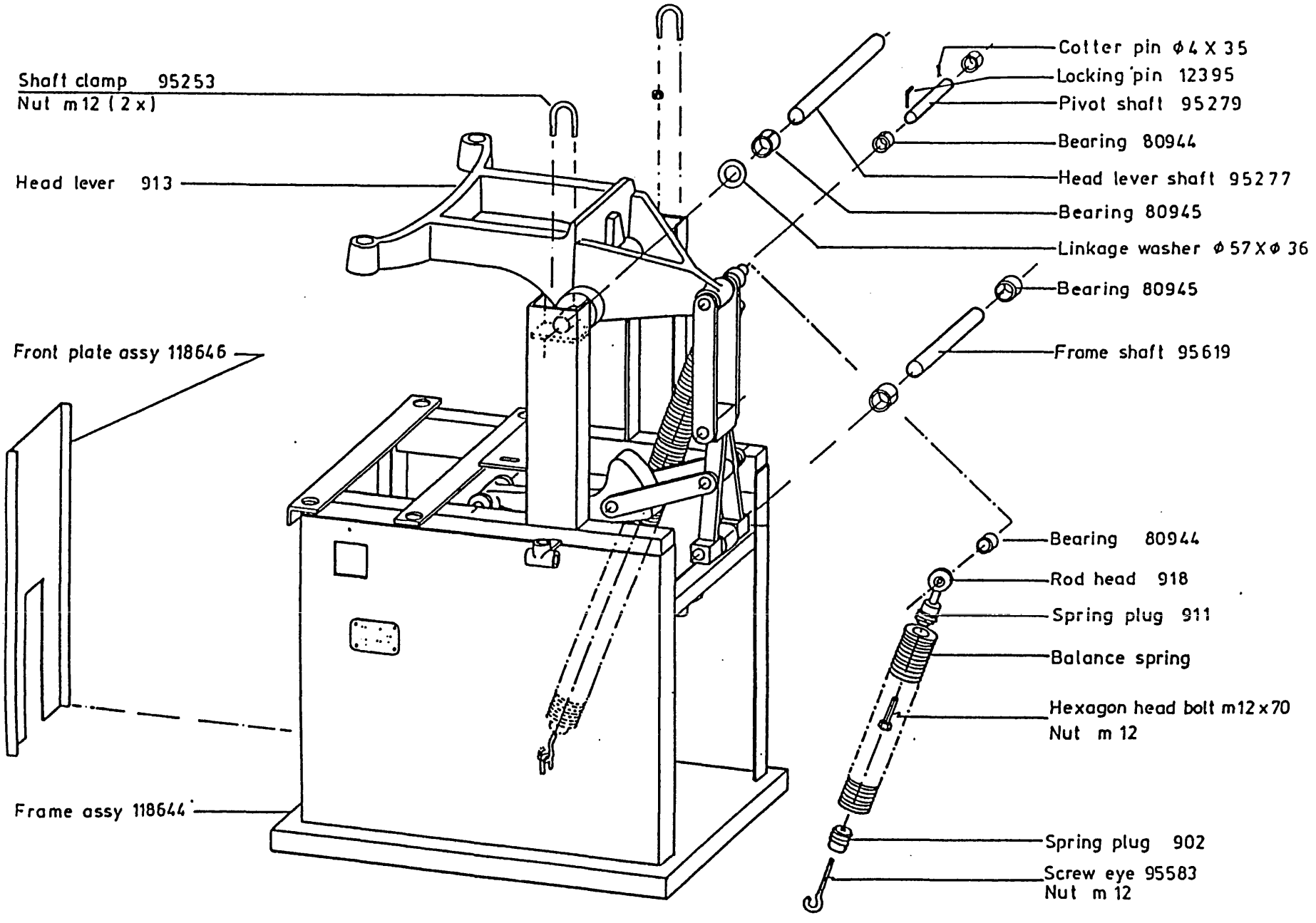
Balance spring – The balance spring is adjusted at the factory. The setting of the spring is a compromise between the closing speed and the opening speed of the head. to speed the buck opening, extend the spring more by adjusting the balance spring, which will require more closing force thus increasing the time required to close the press. Conversely compressing the spring more allows faster closing and slower opening.

The spring can be adjusted by unscrewing the locknut at the lower spring head and turning the balance spring clockwise for more tension or counter clockwise for lower tension. Then secure locknut again.

GENERAL TROUBLE SHOOTING LIST
Manual press

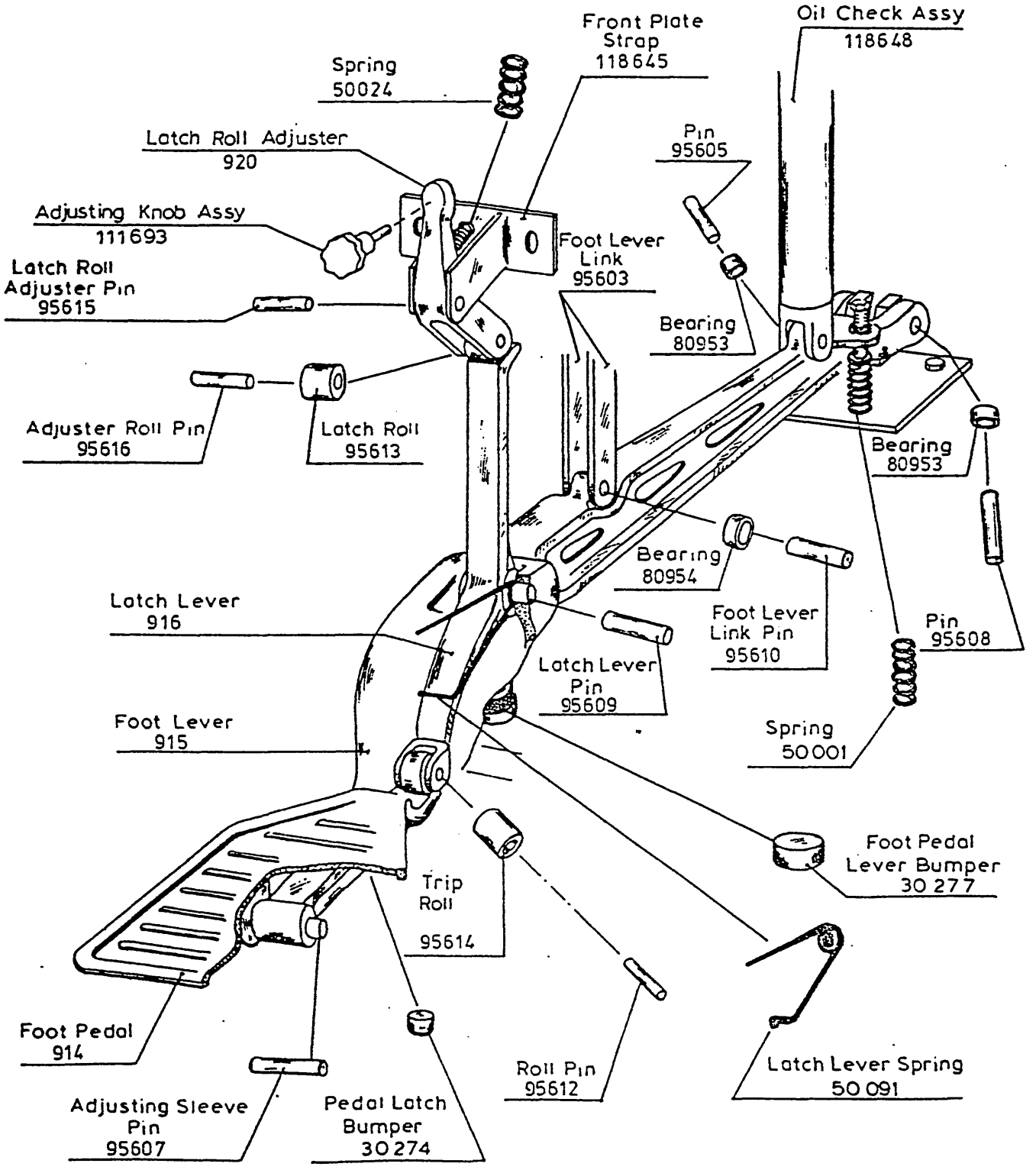
1.	**Head will not lock**	
	POSSIBLE CAUSE	SOLUTION
a.	Trip lever is out of adjustment.	See table of contents - adjustment of trip lever.
b.	Changed to thicker pads and coverings.	See table of contents - adjustment of head lever.
2.	**Press head is hard to close**	
	Too high of tension of balance springs.	Reduce tension of balance spring by unscrewing balance spring
3.	**Press head bangs when released**	
a.	Oil check assembly is low of oil.	Fill oil check with 80178 oil.
b.	Oil check assembly is out of adjustment.	See table of contents - adjustment of oil check.
4.	**No vacuum**	
a.	No vacuum supply.	Check to make sure central vacuum system is working properly.
b.	The set collar on the vacuum valve connecting rod not adjusted properly.	Adjust set collar (17858) for a clearance of ± 1/16 inch between collar and operating valve lever.
5.	**Vacuum will not shut off**	
a.	Valve spring broken.	Replace # 50009 spring.
b.		
c.	Defective vacuum valve.	Repair or replace # 118652 vacuum valve.
6.	**Buck steam valve releases too much or too little steam**	
	Buck steam valve not adjusted properly.	Adjust buck steam valve. See table of contents - adjustments buck valve and buck steam linkage.
7.	**Wet spots on buck pad and covering**	
a.	Steam trap not working properly.	Check steam trap on press.
b.	Improper installation.	Check: 1. Steam input has a 6 inch riser off of supply header. 2. An end of line by-pass trap has been installed on headers and is working. 3. A ½ inch supply and return line has been used.
c.	Buck valve is leaking.	1. Check to see if foreign matter may be between valve (# 35232) and seat. 2. Worn valve (# 35232) - replace. 3. Worn seat (# 15081) - replace. 4. Out of adjustment - see table of contents - buck valve and buck steam linkage.

d. Defective check valve.	Clean or replace check valve # 80021.
8. Wet spots on head pad and covering	
a. Steam trap not working properly.	Check steam trap on press.
b. Improper installation.	Check: 1. Steam input has a 6 inch riser off of supply header. 2. An end of line by-pass trap has been installed on headers and is working. 3. A ½ inch supply and return line has been used.
9. Buck valve leaking externally	
Worn gasket or O-ring.	1. Replace O-ring (# 30023) if leaking at stem.
10. Head valve leaking externally	
Worn gasket or O-ring.	1. Replace O-ring (# 30023) if leaking at valve stem or at adjusting screw.
11. No head steam	
a. External linkage.	Check: 1. Stem lever adjustment.
b. Out of adjustment.	See table of contents - head valve adjustments.


Shaft clamp 95253
Nut m12 (2 x)
Head lever 913
Front plate assy 118646
Frame assy 118644
Cotter pin ϕ4 X 35
Locking pin 12395
Pivot shaft 95279
Bearing 80944
Head lever shaft 95277
Bearing 80945
Linkage washer ϕ57 X ϕ36
Bearing 80945
Frame shaft 95619
Bearing 80944
Rod head 918
Spring plug 911
Balance spring
Hexagon head bolt m12 x 70
Nut m 12
Spring plug 902
Screw eye 95583
Nut m 12

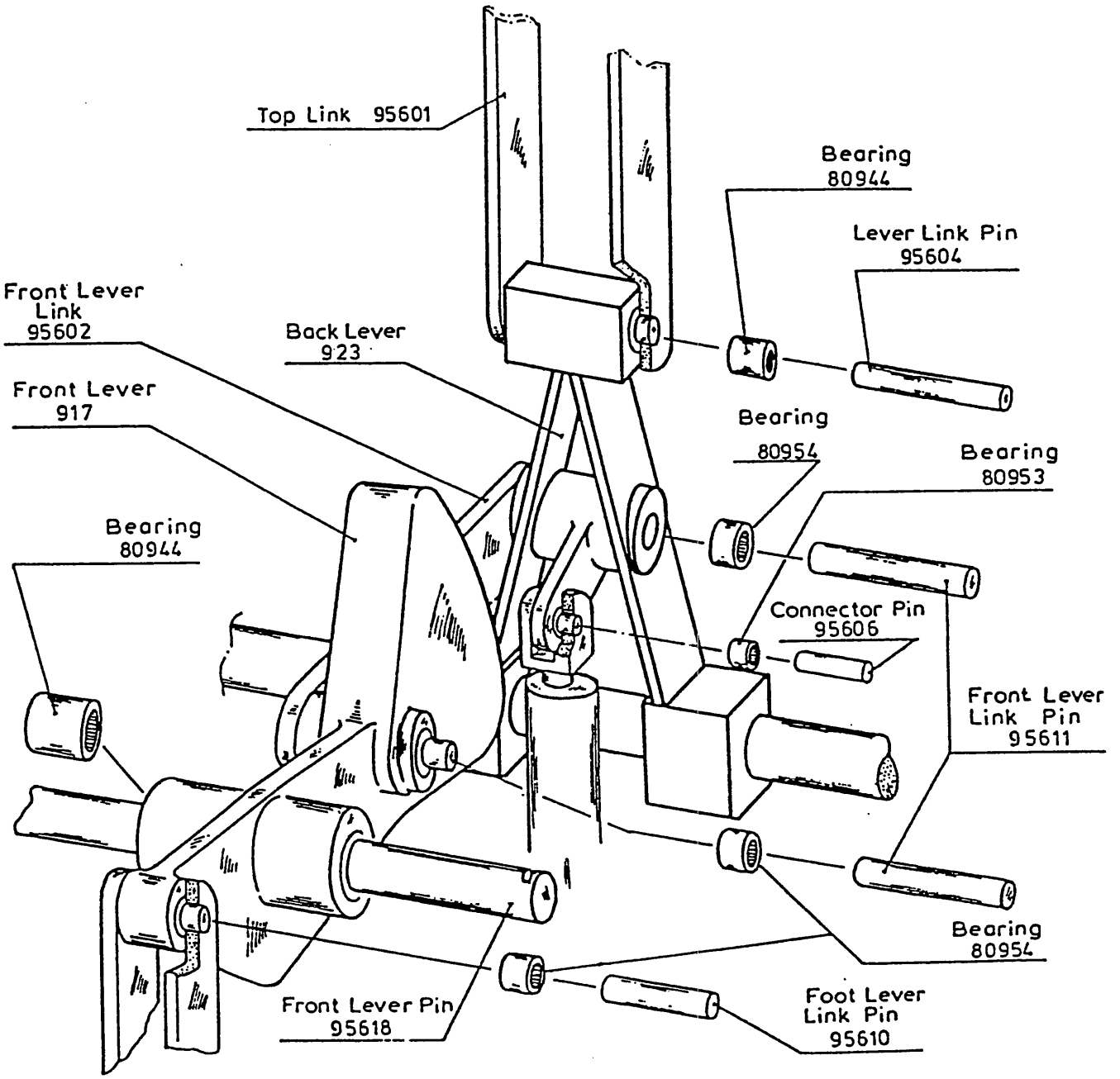
TRIP LEVER GROUP

PIN	COTTER PIN	LOCK PIN
95605	9604 (2X)	—
95607	9604 (2X)	—
95608	9604	12394
95610	9604	12394
95615	9604 (2X)	—
95616	9604	12394

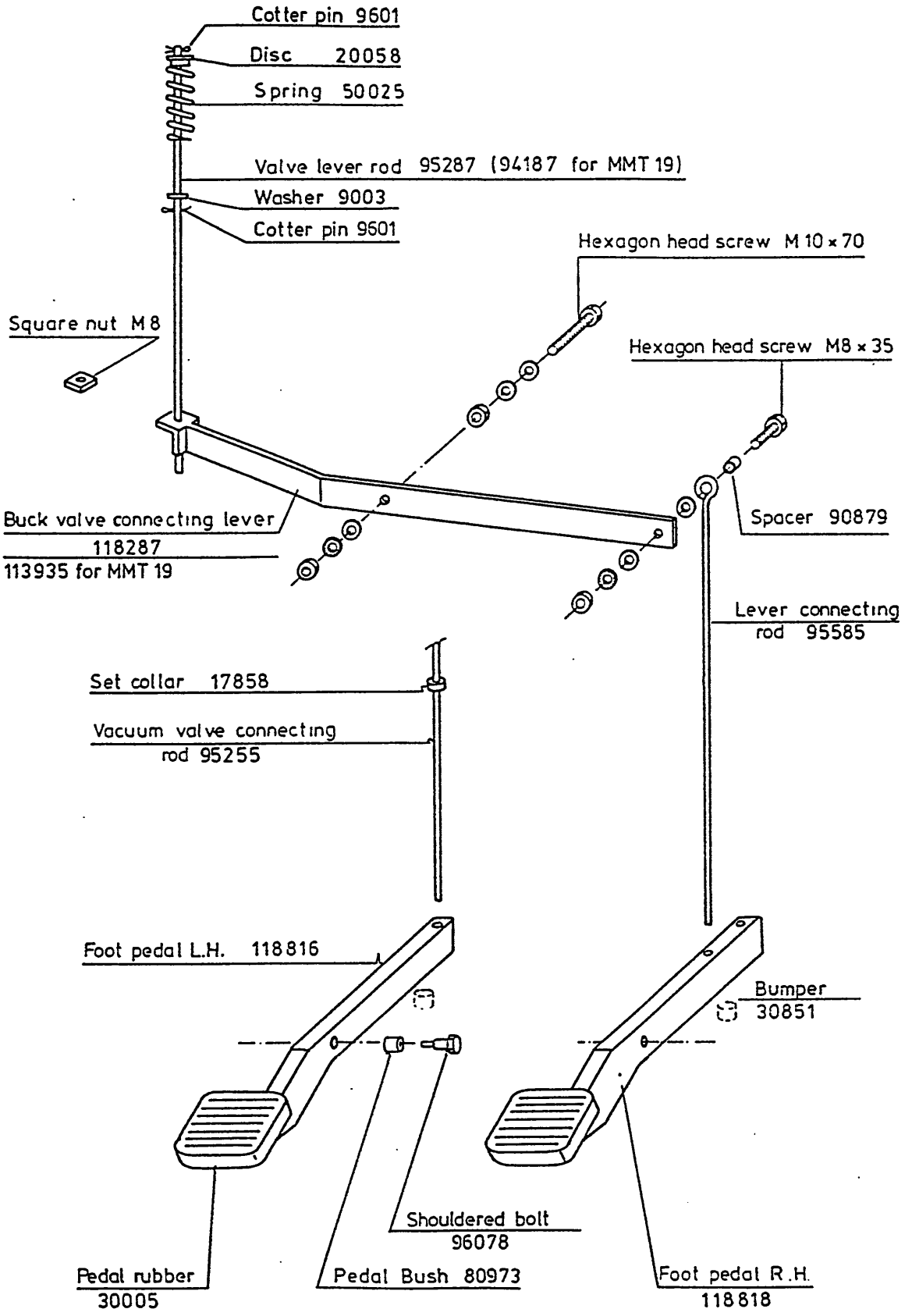


BACK LEVER GROUP

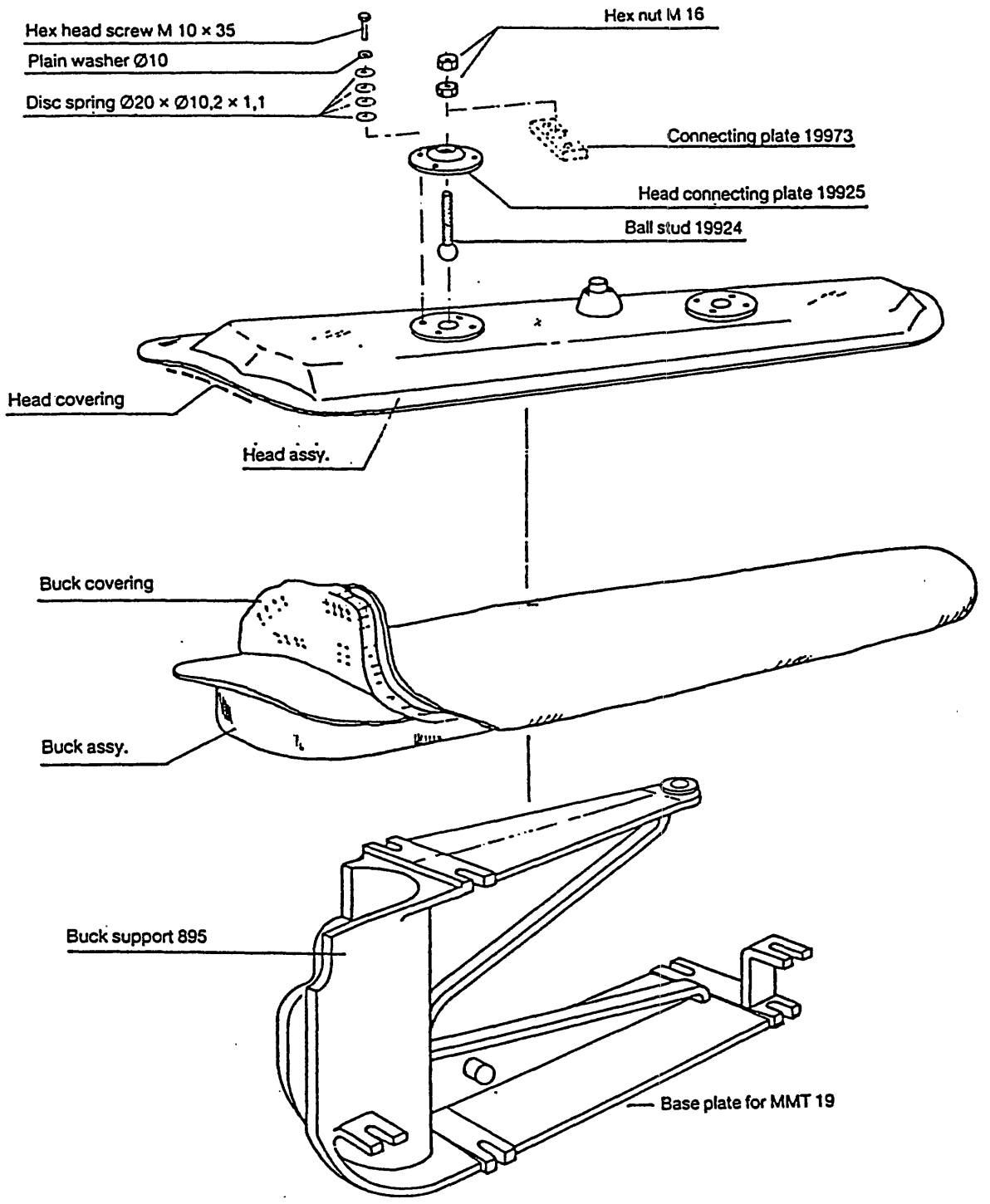
PIN	COTTER PIN	LOCK PIN
95604	9603	12395
95606	9604	12394
95610	9604	12394
95611	9604	12394



CONNECTING LEVERAGE

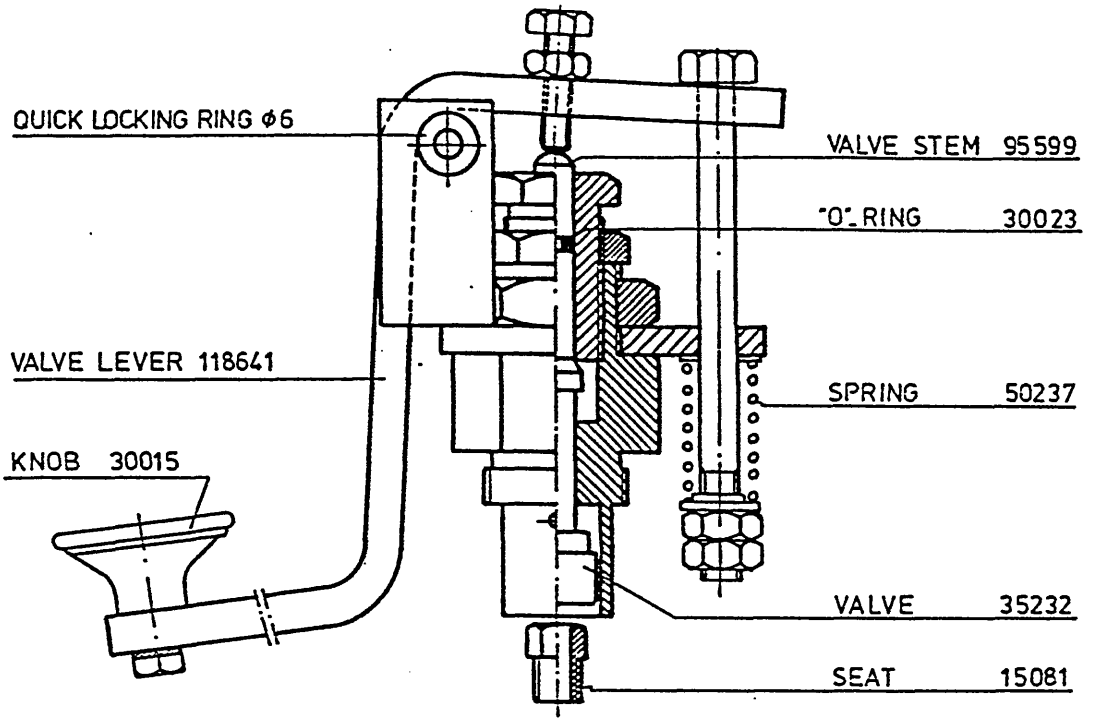


PRESS SHOE GROUP

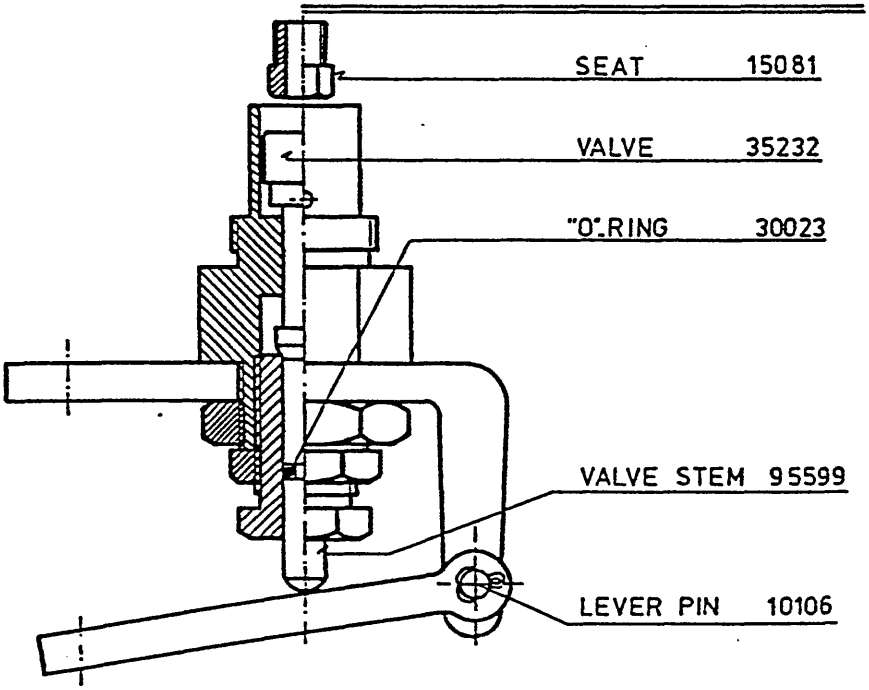


model	head assy.	buck assy.	head covering	buck covering
MMT 19_C	102241	102239	117760	117759
MU 42 _C	102218	102219	117758	117757
MUH 42 _C	102177	102219	–	118513
MU 45 _C	102194	102220	117756	117755
MU 47 _C	102221	102222	117754	117753
ML 45 _C	102231	102232	117752	117751

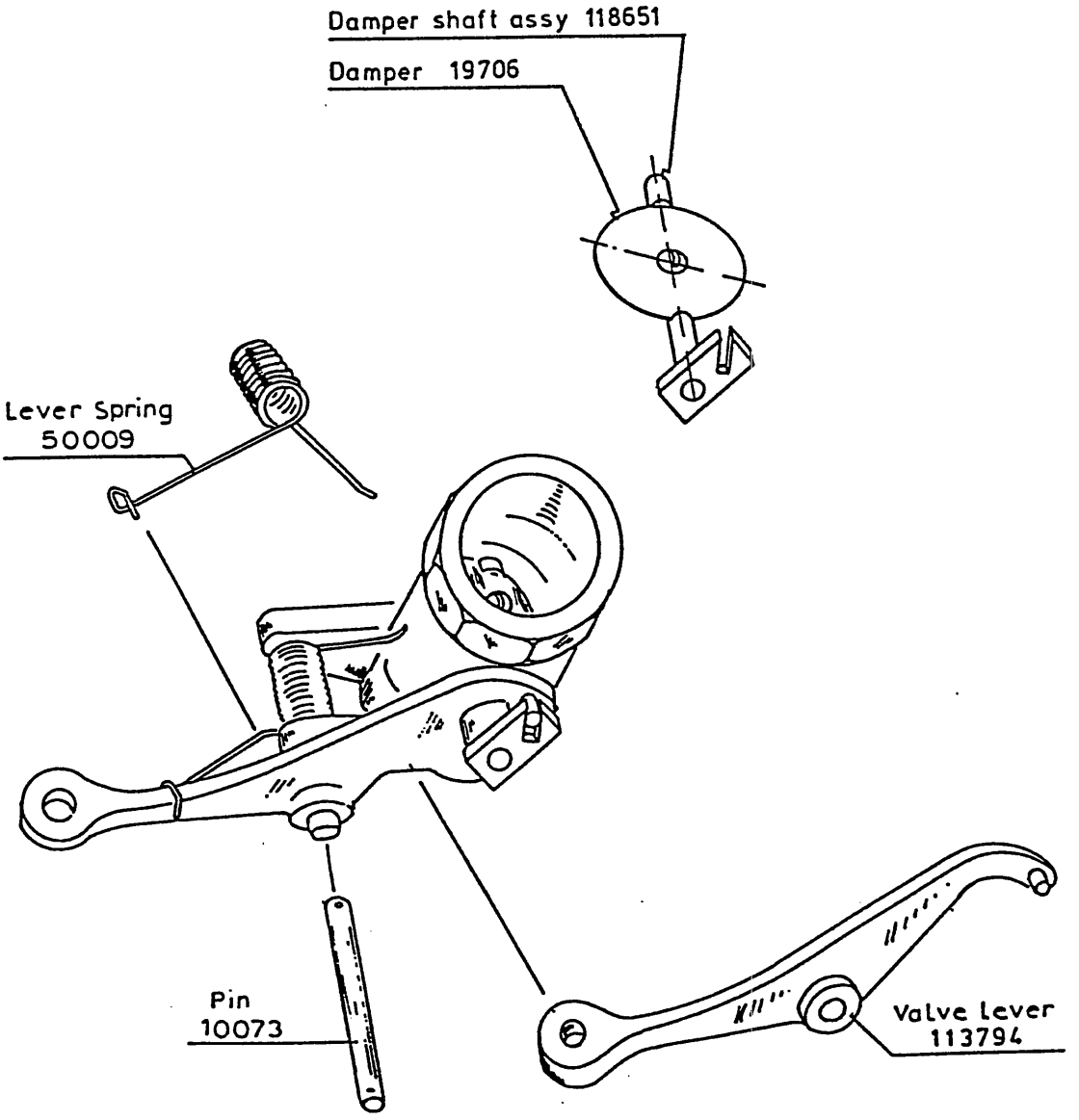
HEAD VALVE ASSY 118650



BUCK VALVE ASSY 118649



VACUUM VALVE 2" 118652



RECOMMENDED PIPING FOR CISSELL PRESSES AND IRONS