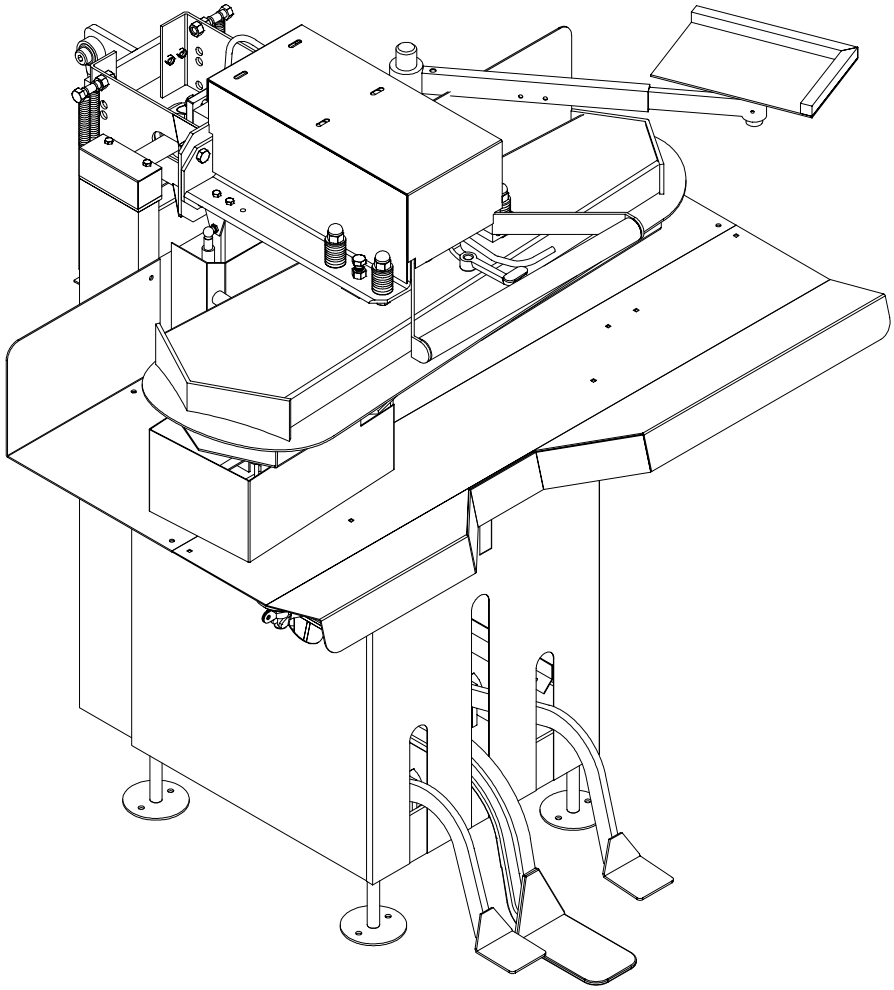
MANUAL PRESS

Service Manual

UTILITY- MU-42-K, MU-45-K



CISSELL MANUFACTURING COMPANY
831 SOUTH FIRST STREET
LOUISVILLE, KENTUCKY 40203 U.S.A.

MAN589 ECN5736 31599

Part No. D0122

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, transportation 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 anyway that affects 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 EXPRESSED 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, EXPRESSED 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
MU42 and MU45 (UTILITY)

TABLE OF CONTENTS
MU42, MU45, – UTILITY

TESTING

This press has been tested in the 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 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 of 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 pressing down on the lever on the right of the head steam valve. The head steam is hand lever operated while the buck steam and vacuum are foot pedal operated. The improved leverage system and roller bearing pivot assures smoother, faster head operation and a quality finish.

INSTALLING THE PRESS

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 slowly to the open position.
3. The Lowboy bracket (PR356) has been installed on the table at the factory. Then assemble the iron rest assembly (PR365, PR398 & PR401) to the shaft of PR356. (See Figure 1)

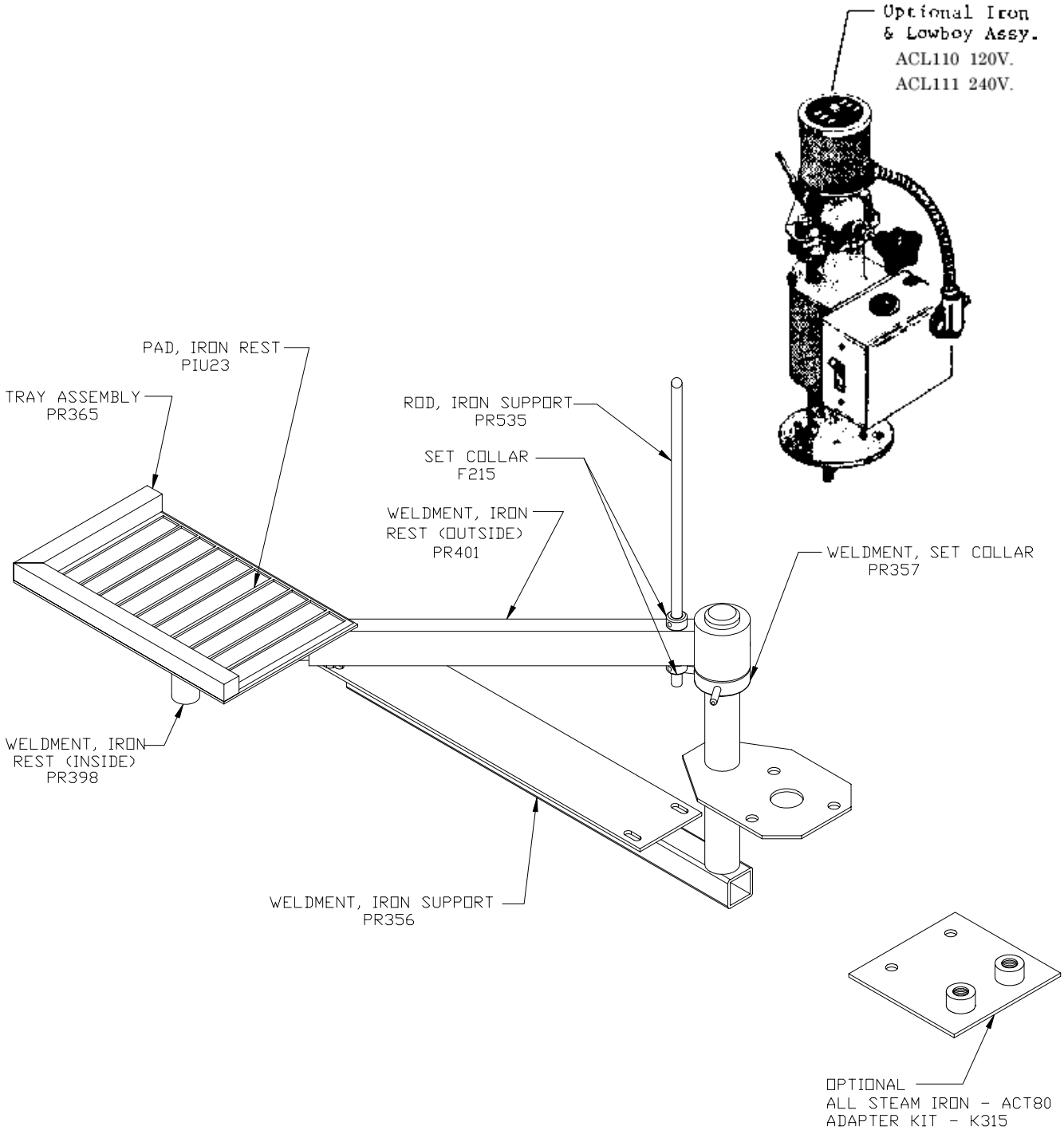


FIGURE 1 (IRON REST)

Steam and Vacuum Connections – (See Figure 2)

5. Connect a 3/8 inch steam supply line to the press at a recommended pressure of 88 psi (6 bars). Use a reducing valve if needed to obtain the correct pressure. The press uses one boiler horsepower (34.5 lb/h) of steam.

6. Connect a 3/8 inch steam return line to the press. Install a 1/2 inch steam trap suitable for 88 psi (6 bars) in the line.

7. 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 2D or larger).

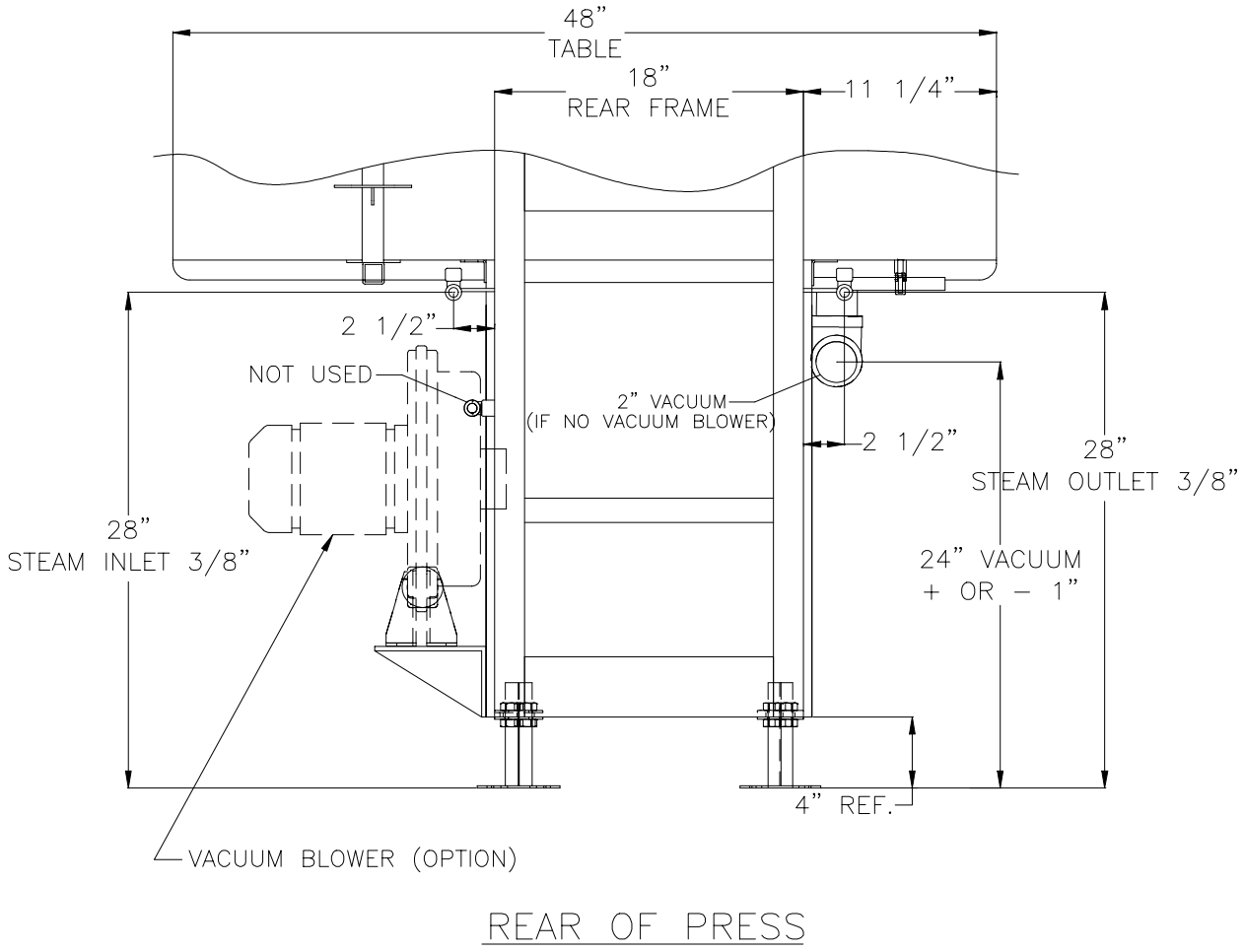
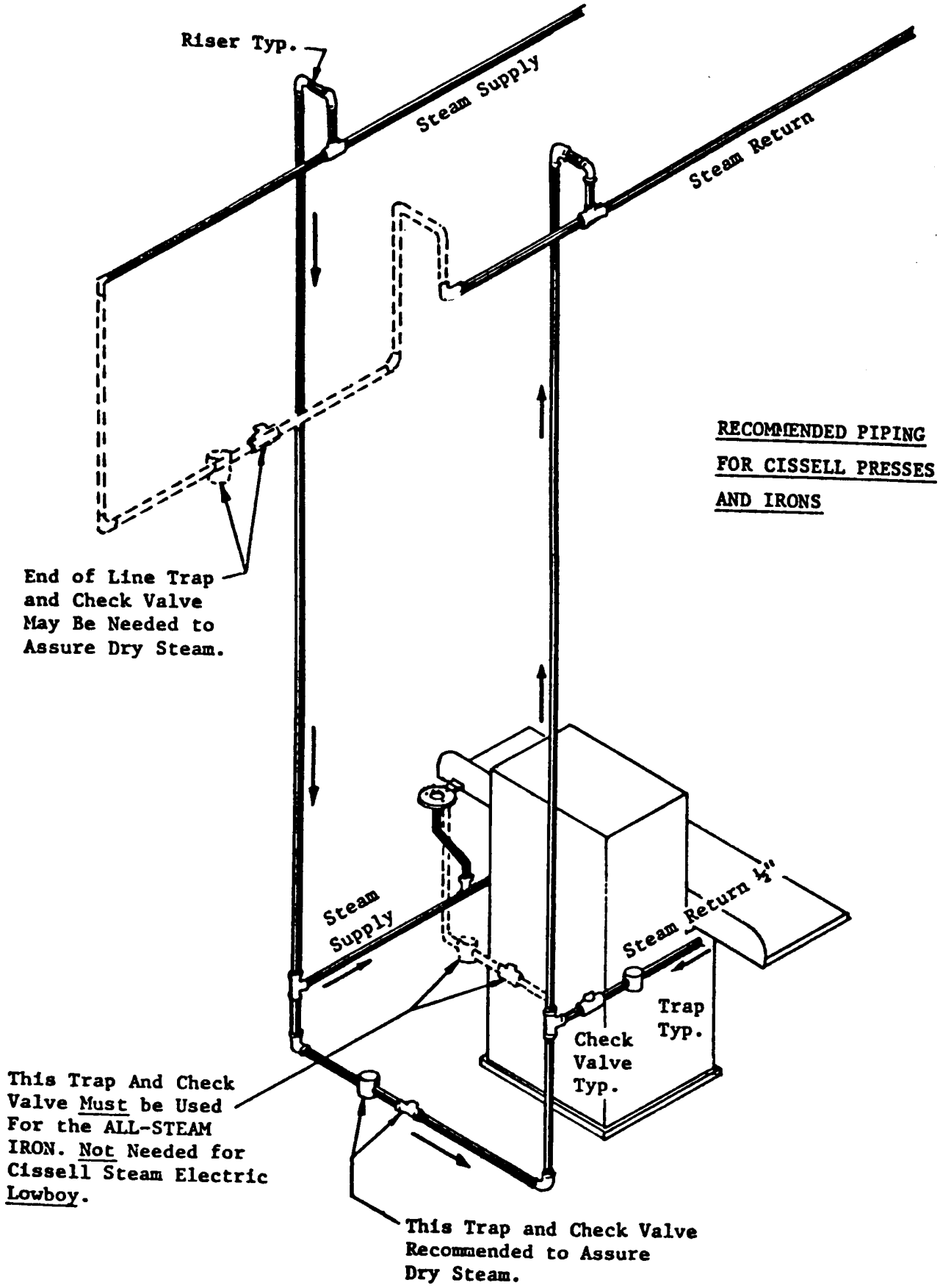


FIGURE 2
STEAM & VACUUM CONNECTIONS


Riser Typ.
Steam Supply
Steam Return
RECOMMENDED PIPING
FOR CISSELL PRESSES
AND IRONS
End of Line Trap
and Check Valve
May Be Needed to
Assure Dry Steam.
Steam
Supply
Steam Return ½"
Trap
Typ.
Check
Valve
Typ.
This Trap And Check
Valve Must be Used
For the ALL-STEAM
IRON. Not Needed for
Cissell Steam Electric
Lowboy.
This Trap and Check Valve
Recommended to Assure
Dry Steam.

Description of the Manual Press

The buck of the press is the bottom part of the press upon which the garment is to be placed and pressed. The head is the upper part of the press. The head has a nylon 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 pedal. The left pedal activates the vacuum. The right pedal activates the buck valve which ports upsteam to the buck.

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

One black knobbed lever is located on the head. This lever operates the head release.

Operation of the Manual Press (Allow the press to warm up for 20 min.)

Lay the garment to be pressed on the buck. Close the head by pulling down on the 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 foot pedal. Both may be operated at the same time. The buck can be opened by pressing down on the release lever on the right side of the head steam valve. Depressing the left 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.

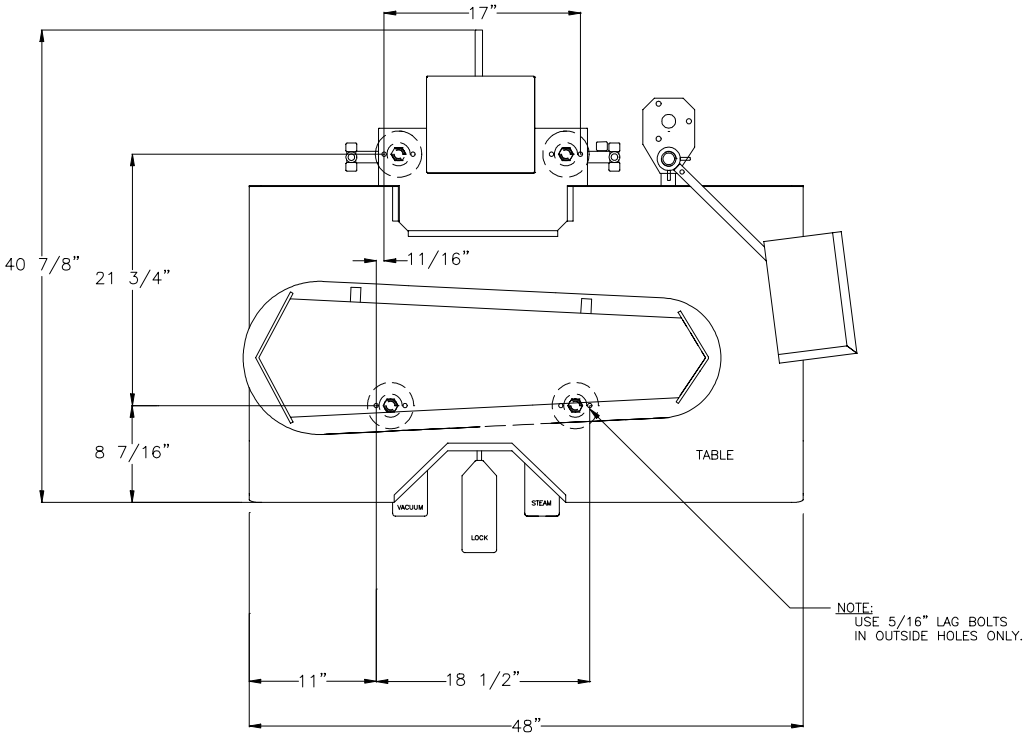
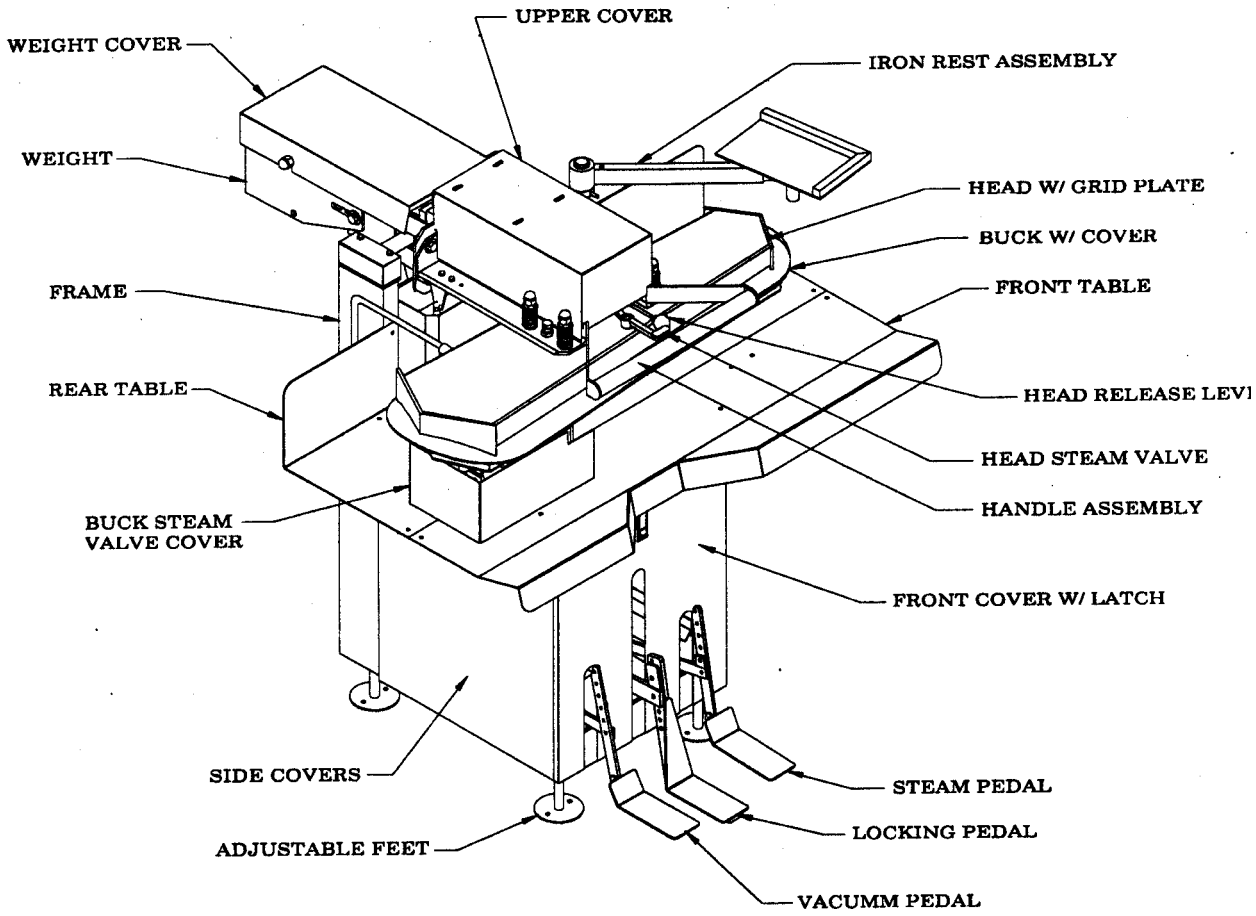
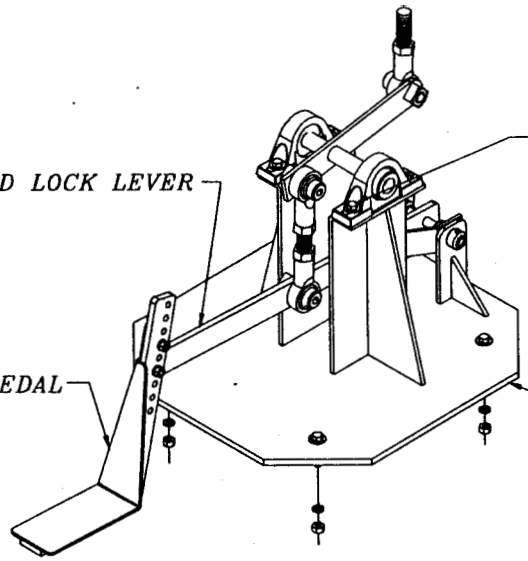


FIGURE 3

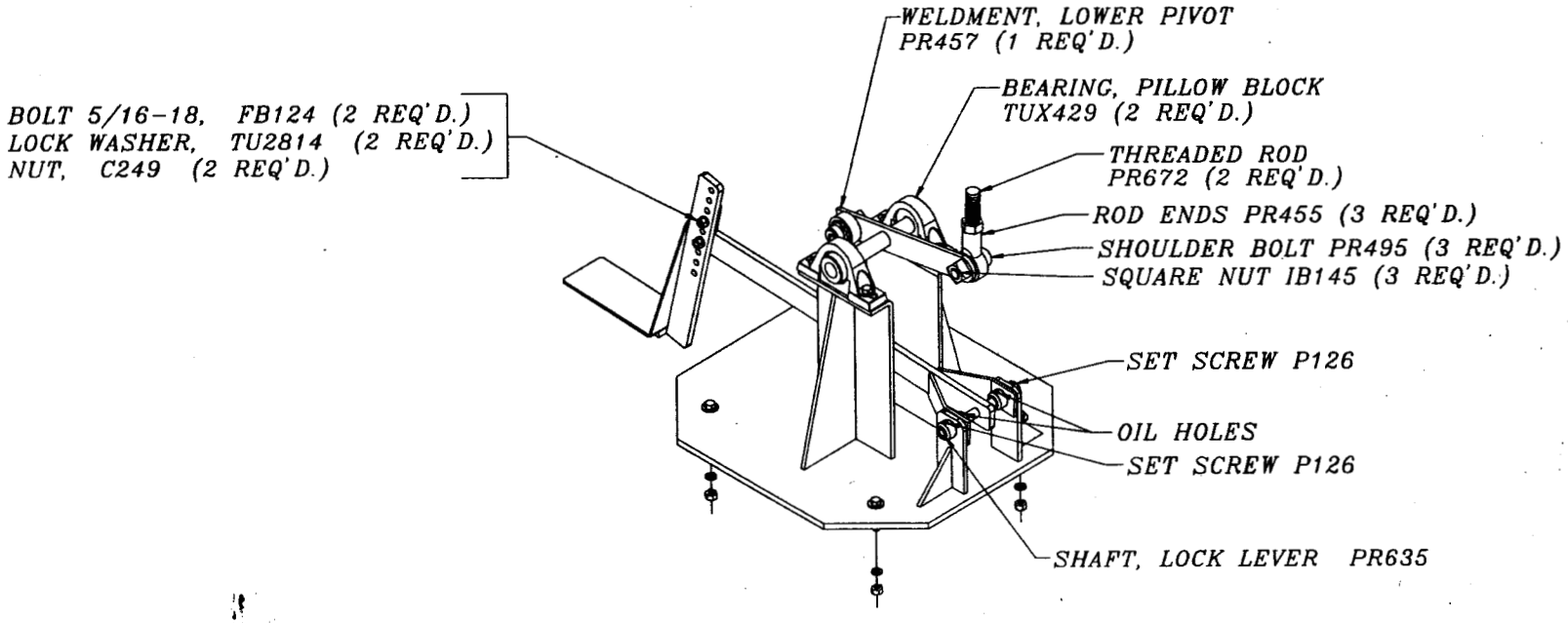
LAYOUT FOOT PRINT



DESCRIPTION OF THE PRESS



FRONT VIEW



REAR VIEW

Maintenance

1. Once per month add ordinary lubricating oil into the oil holes of the foot pedals.

2. The main pivot of the press head lever is fitted with pillow block bearings that are factory lubricated

.

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 the garment. This pressure can be easily adjusted by removing the upper rod end and turning counterclockwise for more pressure or clockwise for less 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 on the foot pedal turn this rod counterclockwise as viewed from the top so that no steam flows into buck. Depression of the right hand pedal should then give a good flow of steam. If there is poor steam flow because the pedal can not travel far enough, then turn the valve lever rod clockwise.

Buck Valve – This valve is set at the factory and normally would not be adjusted.

General Trouble Shooting – Manual Press

1. Head Will Not Lock

Cause	Remedy
A. Trip lever is out of adjustment.	See page 15.
B. Changed to thicker pads & coverings.	See above Adjustment of head lever.

2. Press Head Stays Down When Released

Cause	Remedy
A. A damper has gotten weak.	See Table of Contents – Replacement damper.
B. Rear springs has gotten out of adjustment	Re-adjust spring support plate.

3. No Vacuum

Cause	Remedy
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 for a clearance of +/- 1/16 inch between collar and operating valve lever.

4. Vacuum Will Not Shut Off

Cause	Remedy
A. Valve spring broken or loose.	Replace spring.
B. Defective vacuum valve.	Repair or replace vacuum valve.

5. Wet Spots On Buck Pad & Covering

Cause	Remedy
A. Steam trap not working properly.	Check steam trap for 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 3/8 inch supply and return line has been used.
C. Buck valve leaking.	1. Check to see if foreign matter may be between valve and seat. 2. Worn valve – replace. 3. Out of adjustment – See Table of Contents – Buck Valve and Buck Steam Linkage.
D. Defective check valve.	Clean or replace check valve PR534.

6. Wet Spots On Head Pad And Covering

Cause	Remedy
A. Steam trap not working properly.	Check steam trap for 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 3/8 inch supply and return line has been used.

7. Buck Valve Leaking Externally

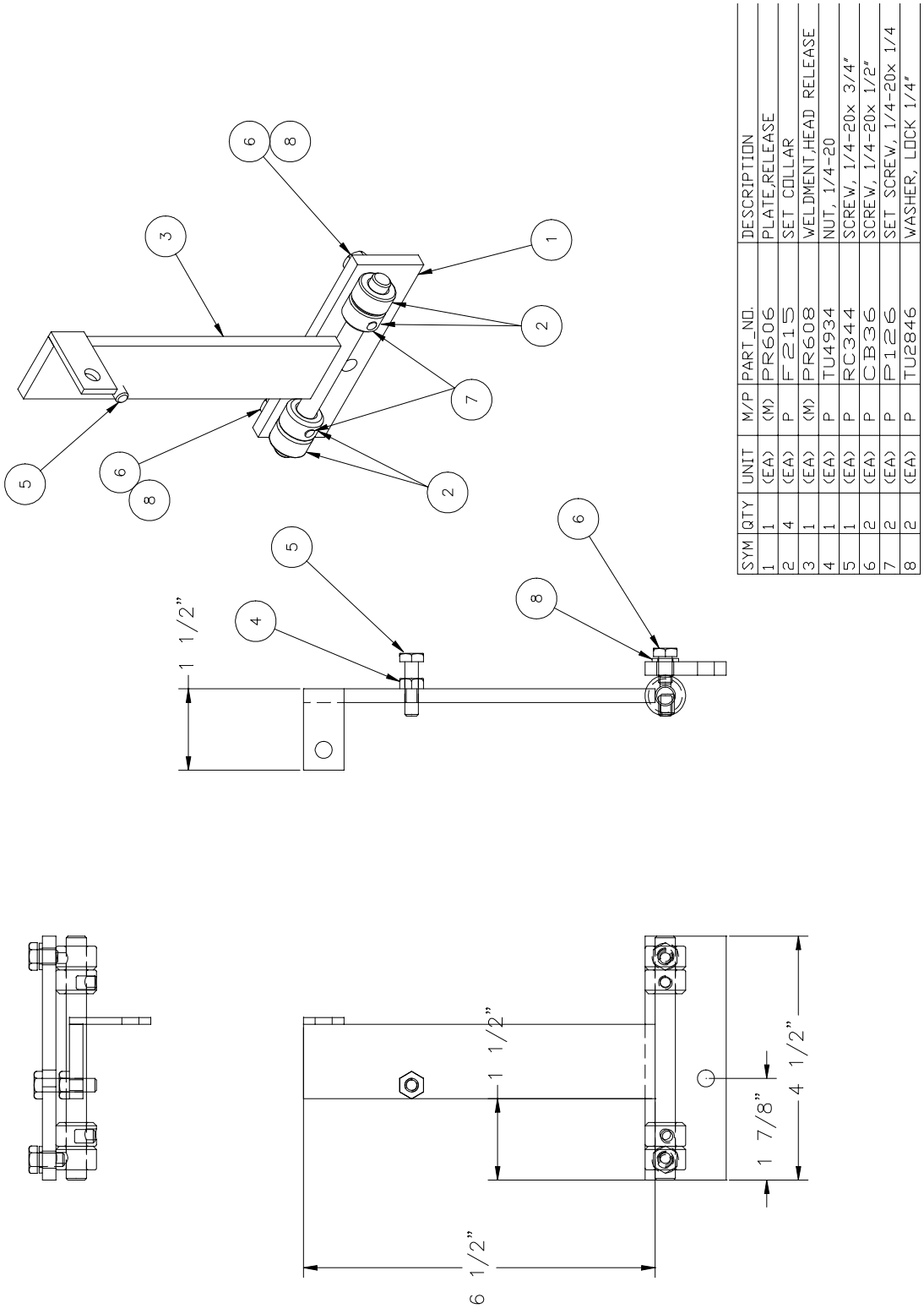
Cause	Remedy
Worn gasket	Replace teflon gasket (PR261) if leaking between buck valve and buck.

8. Head Valve Leaking Externally

Cause	Remedy
Worn gasket.	Replace teflon gasket (PR260) if leaking at base of valve.

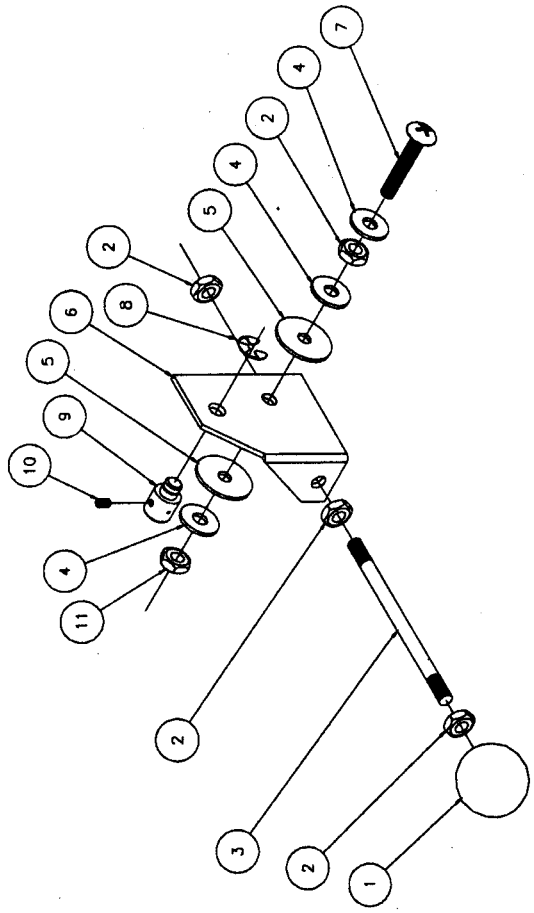
9. No Head Steam

Cause	Remedy
A. External linkage.	Check – 1. Steam lever . 2. Lever fork .
B. Out of adjustment.	See Head Valve adjustments on page 12.



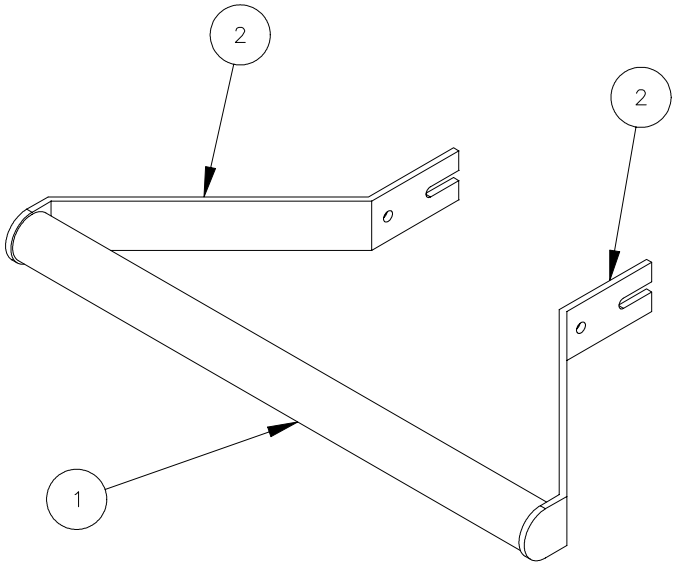
SYM	QTY	UNIT	M/P	PART_NO.	DESCRIPTION
1	1	(EA)	(M)	PR606	PLATE,RELEASE
2	4	(EA)	P	F215	SET COLLAR
3	1	(EA)	(M)	PR608	WELDMENT,HEAD RELEASE
4	1	(EA)	P	TU4934	NUT, 1/4-20
5	1	(EA)	P	RC344	SCREW, 1/4-20x 3/4"
6	2	(EA)	P	CB36	SCREW, 1/4-20x 1/2"
7	2	(EA)	P	P126	SET SCREW, 1/4-20x 1/4
8	2	(EA)	P	TU2846	WASHER, LOCK 1/4"

HEAD RELEASE ASSEMBLY
(LOWER PIVOT)



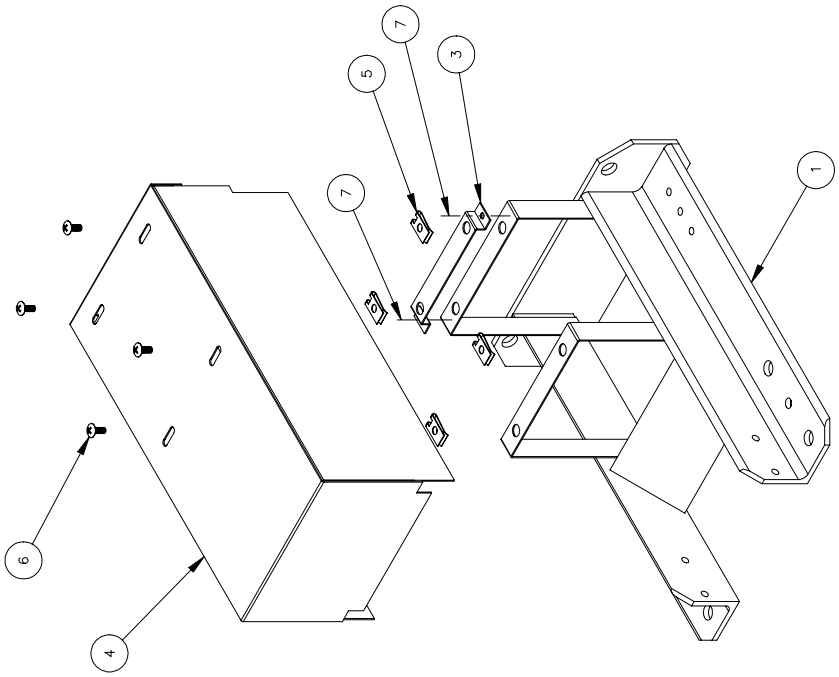
SYM.	PART NO.	DESCRIPTION
1	D16	KNOB
2	TU4934	NUT, 1/4-20
3	F1446	ROD, THRD. BOTH ENDS
4	TU2847	FLAT WASHER 1/4"
5	F639	NYLON WASHER
6	PR602	PLATE, LEVER SUPPORT
7	TU6708	SCREW, 1/4-20x 1 1/2" LONG
8	F358	"E" RING
9	F664	RETAINER (CABLE)
10	C196	SET SCREW #8-24
11	RC382	NUT, LOCK 1/4-2

HEAD RELEASE ASSEMBLY
(UPPER PIVOT)

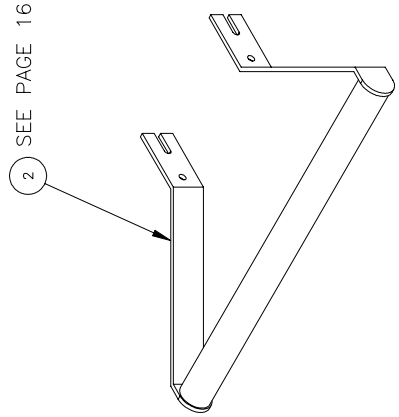


SYM.	PART NO.	DESCRIPTION
1	PR494	HANDLE, NYLON
2	PR497	WELDMENT, HANDLE

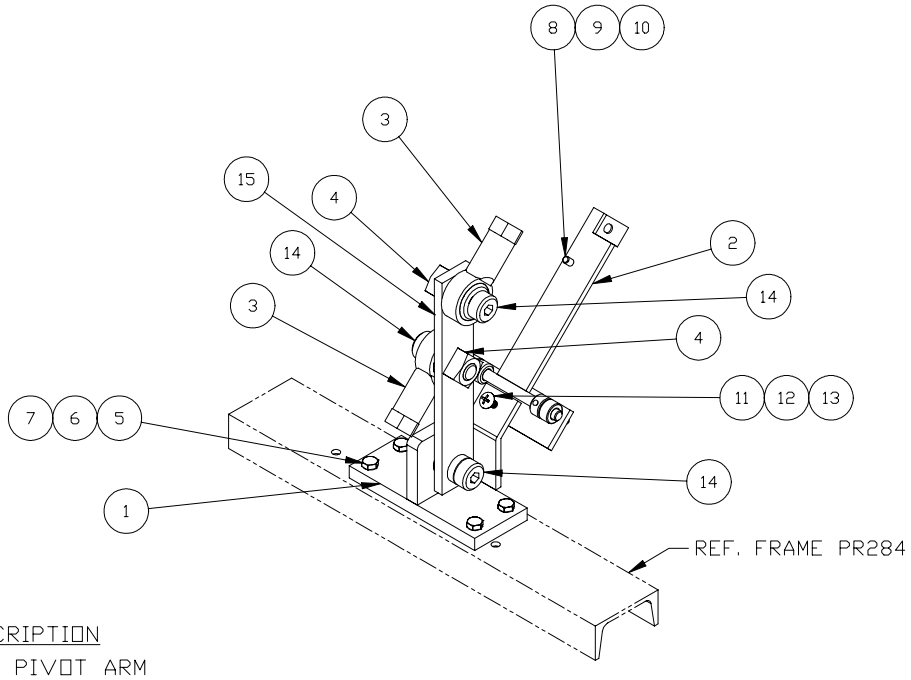
HANDLE ASSEMBLY



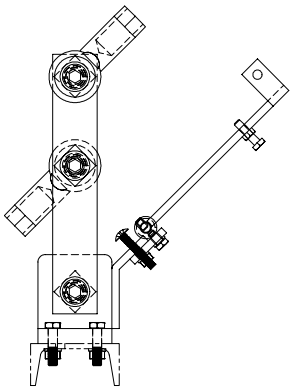
SYM.	PART NO.	DESCRIPTION
1	PR285	WELDMENT, PIVOT ARM
2	PR498	HANDLE ASSEMBLY
3	PR675	SUPPORT, COVER
4	PR647	COVER
5	TU6760	CLIP, TINNERMAN
6	P509	SCREW, 1/4-20x 5/8"
7	TU7733	SCREW, SELF TAPPING



PIVOT ARM ASSEMBLY
(UPPER PIVOT W/ COVER)



SYM.	PART NO.	DESCRIPTION
1	PR619	BASE PIVOT ARM
2	PR660	HEAD RELEASE ASSEMBLY
3	PR455	ROD ENDS
4	IB145	NUT, SQ. 5/8-11
5	C363	HEX HD. BOLT 5/16-18x 1 1/4" LG.
6	C249	NUT, 5/16-18
7	TU2814	LOCK WASHER
8	RC344	BOLT, 1/4-20x 3/4"
9	TU2846	LOCK WASHER
10	TU4934	NUT
11	TU6708	SCREW, PH. 1/4-20x 1 1/2"
12	TU4934	NUT
13	TU2846	LOCK WASHER
14	PR495	SHOLDER BOLT
15	PR632	BAR W/BUSHING



LOWER PIVOT ASSEMBLY

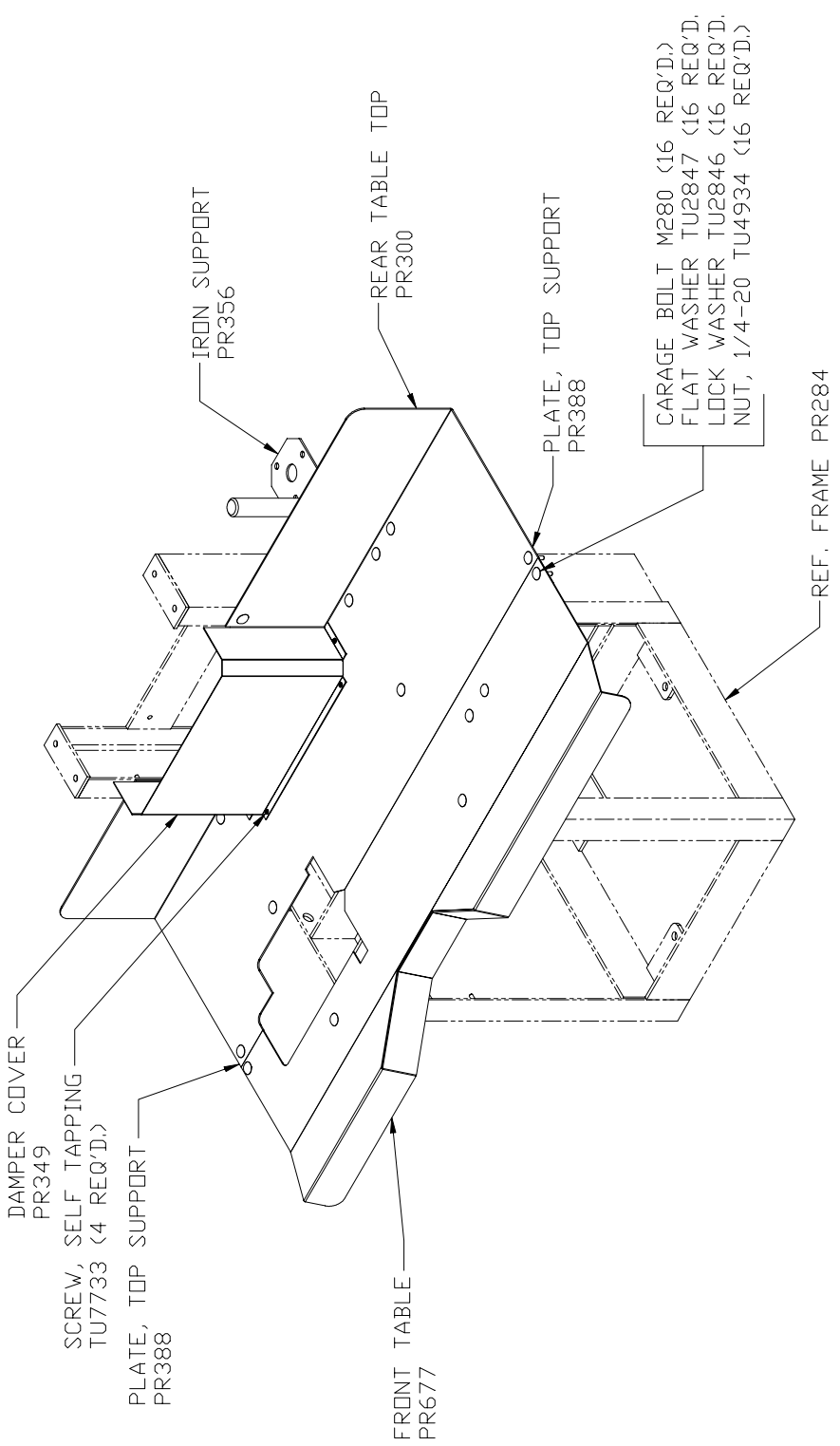
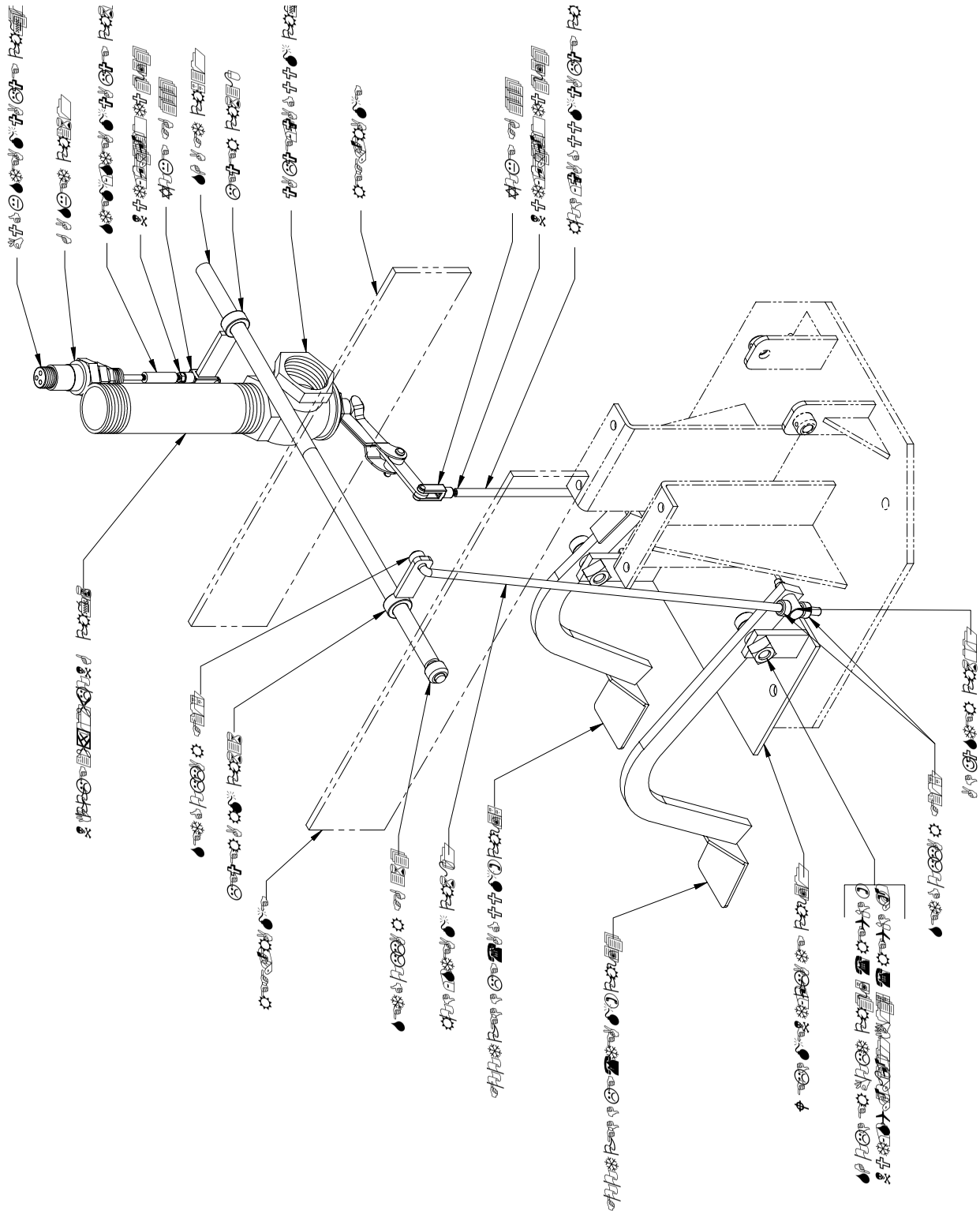
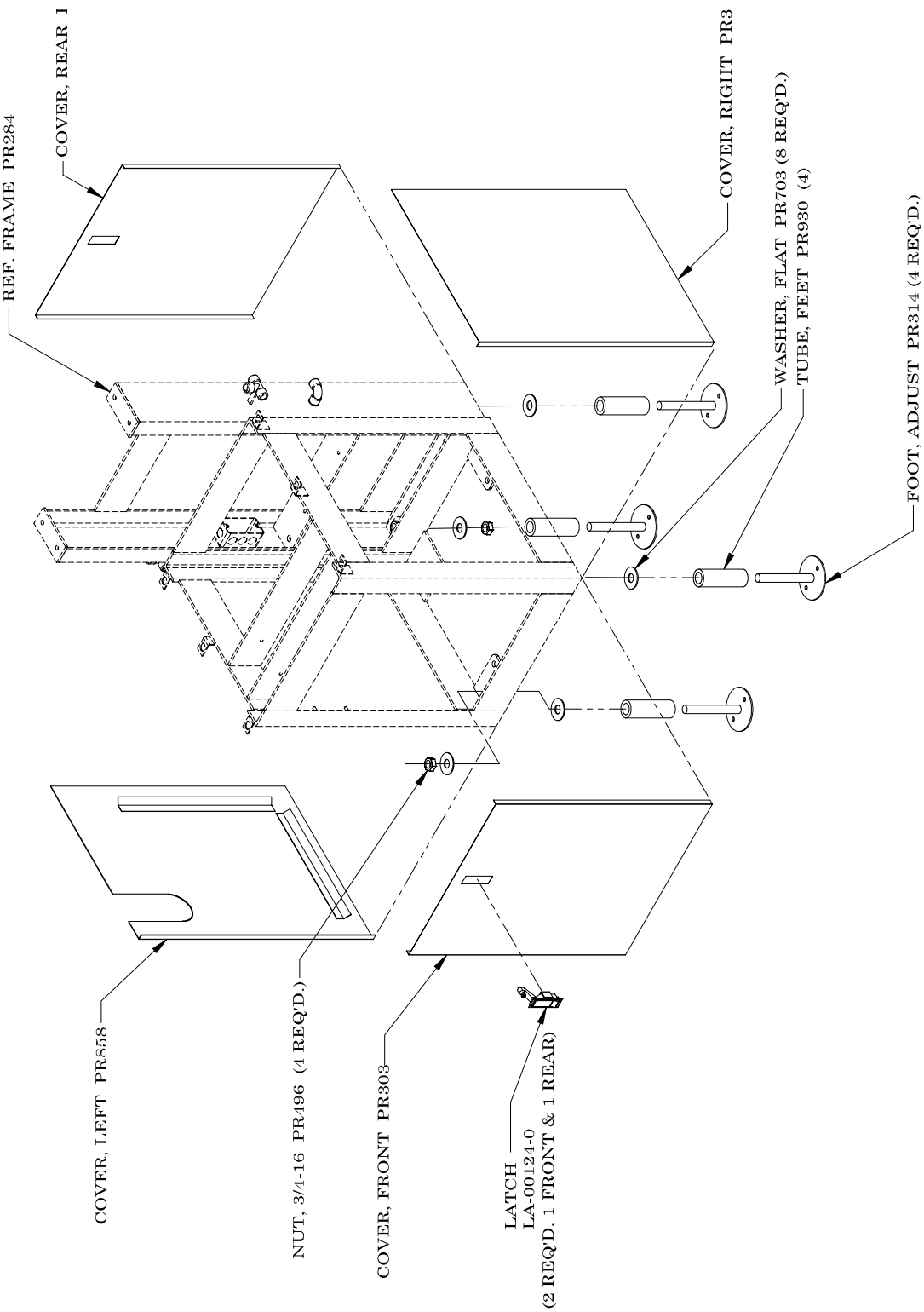


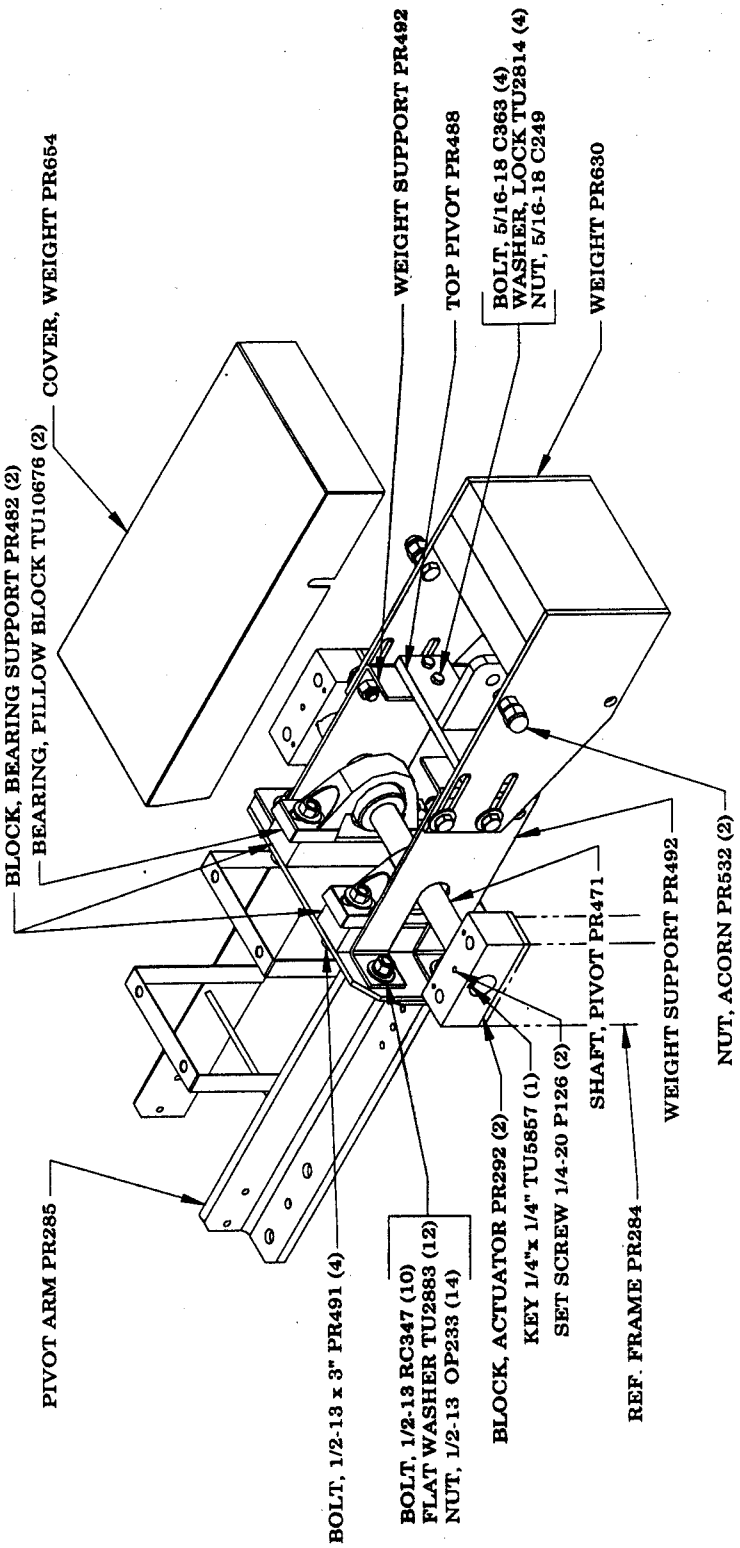
TABLE ASSEMBLY



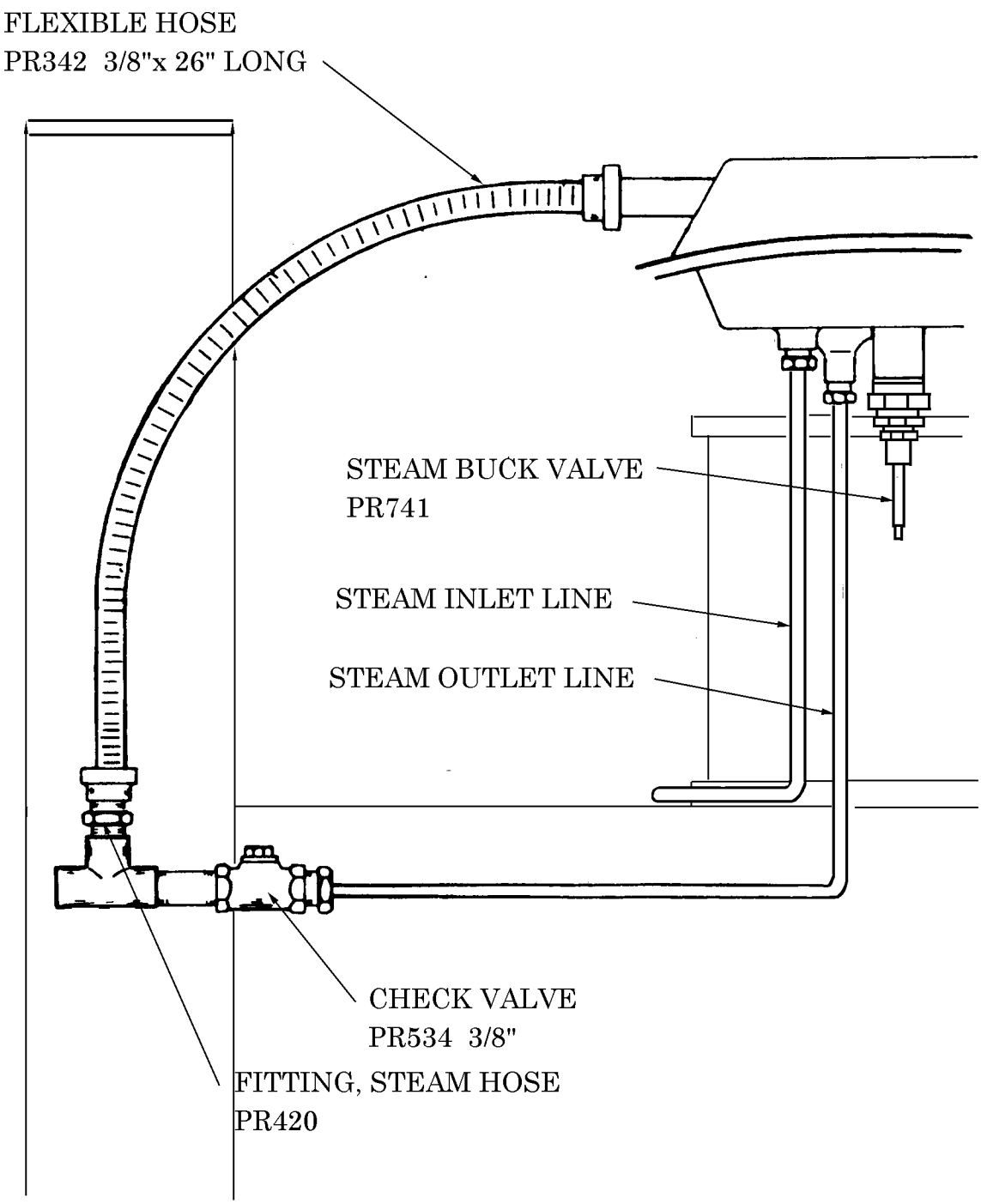
STEAM & VACUUM LEVER ASSEMBLY



COVERS & FOOT ASSEMBLY

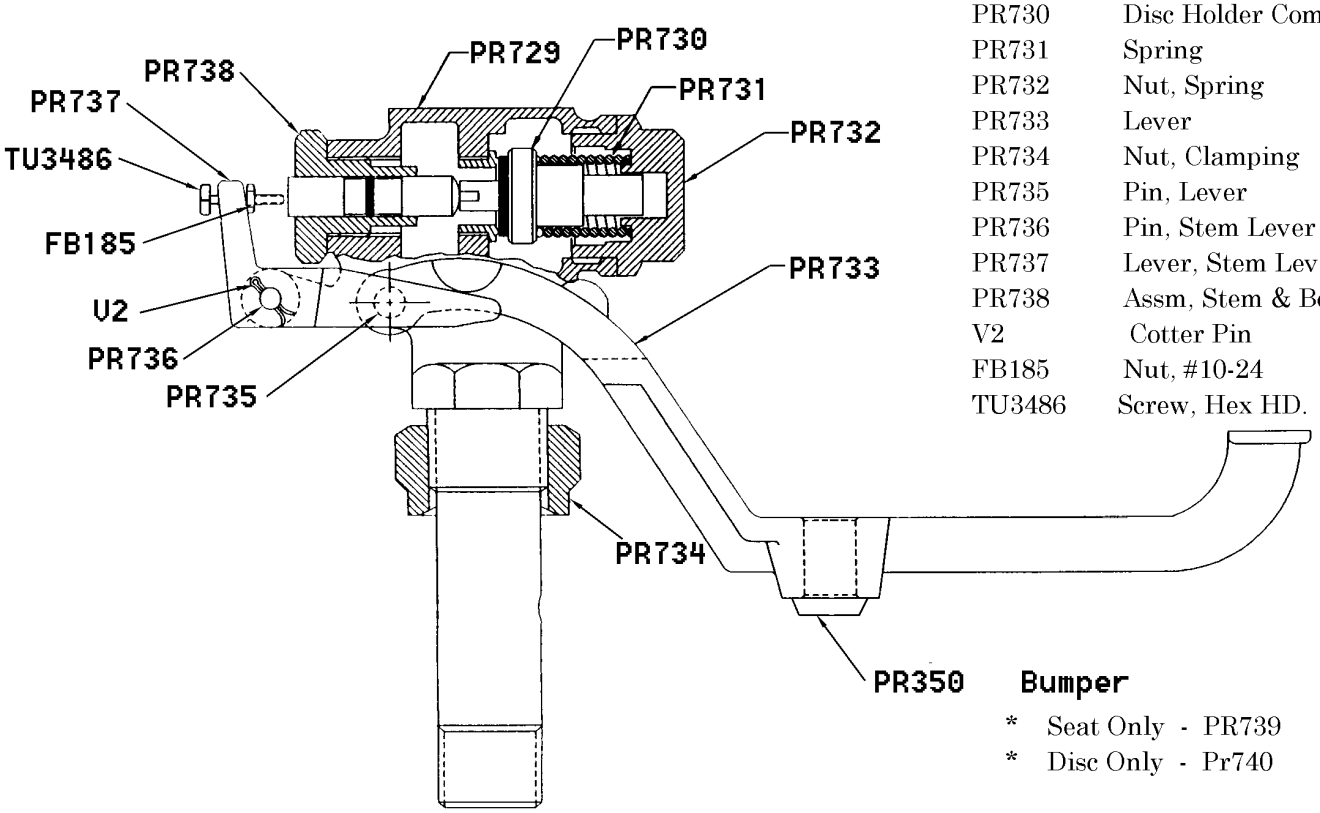


PIVOT ARM ASSEMBLY



STEAM CONNECTIONS

VALVE ASSEMBLY - PR258

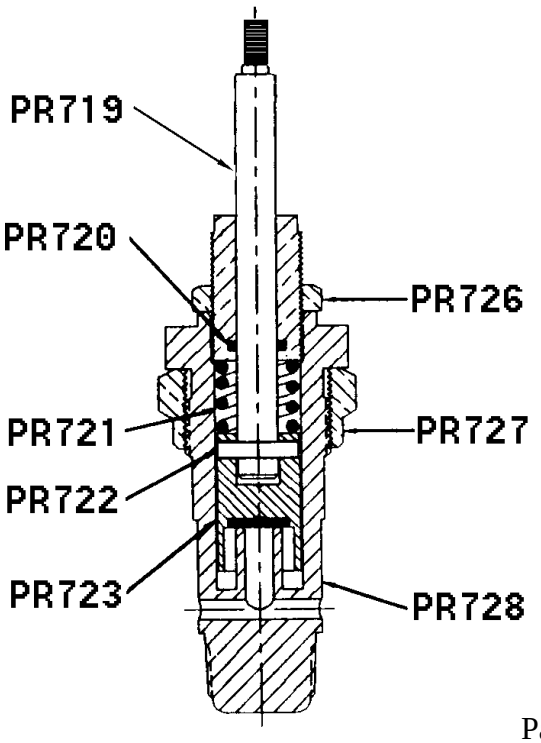


HEAD VALVE

PR729	Body / Seat Sub-Assm
PR730	Disc Holder Comp.
PR731	Spring
PR732	Nut, Spring
PR733	Lever
PR734	Nut, Clamping
PR735	Pin, Lever
PR736	Pin, Stem Lever
PR737	Lever, Stem Lever
PR738	Assm, Stem & Box
V2	Cotter Pin
FB185	Nut, #10-24
TU3486	Screw, Hex HD.

* Seat Only - PR739
* Disc Only - Pr740

VALVE ASSEMBLY - PR741



BUCK VALVE

PR719	Stem
PR720	"O" Ring
PR721	Spring
PR722	Pin
PR723	Disc Holder
PR726	Lock Nut
PR727	Lock Nut
PR728	Body