Directions for No. 3 Vandercook Proof Press

Installation

Place the press on a firm foundation. Lay a spirit level on the bed and level the bed by means of the adjustable feet at the four corners of the cabinet. Clean shipping grease from bed and other bright parts.

Lubrication

Fill all oil holes and cups with S.A.E. 20 Motor Oil. Oil gripper stems when grippers are open. Lubricate vibrator worm on form roller carriage with vaseline. All other bearings are ball bearings packed with grease and sealed. They require no further attention.

Operation

With the form roller lever in the trip position and the steel rider and synthetic distributor roller lowered to contact the vibrator apply ink to the rider. Turn crank at end of synthetic roller until ink is distributed evenly on vibrator. Lower form rollers and turn cylinder carriage through one complete stroke up and back. This will distribute ink on form rollers. The same procedure is followed each time a new supply of ink is needed on form rollers, except that the cylinder carriage need not be moved to distribute the ink.

A form placed against the dead line bar will have a head margin of about ½" (exact head margin depends on position of adjustable end guides). If more than ½" head margin is wanted the form should be spaced away from the dead line bar the desired amount. Move the cylinder across the bed to ink up form making sure the trip lever is held down with the left hand until the cylinder has traveled about four inches, otherwise an impression will be made on the cylinder packing. One forward and return movement of cylinder is sufficient to ink form properly for the first proof. Place sheet on feed board and as cylinder is returned to the feed the grippers open automatically. Continuing the movement of cylinder toward the feed board closes the grippers. Between opening and closing of grippers place the sheet to front and side guides. For close register work the cylinder should be stopped with the grippers open and the sheet fed to the guides. A very short movement of the cylinder toward feed board will close the grippers. After grippers have closed the sheet is printed by moving the cylinder to the opposite end of the bed. The grippers are open in this position and allow the sheet to be removed and placed in the traveling delivery tray. On the return stroke the cylinder is automatically raised. Should you fail to complete the printing stroke the sheet can not be released and the cylinder will not raise causing an impression to be printed on cylinder packing on the return stroke. There are two sheet brushes provided which can be adjusted so that they hold the sheet to the cylinder on the edges or in the margins. The standard bed plate furnished is .050" thick. To use galleys more than .050" will damage the packing and blanket. Galleys less than .050" can be used provided the difference between the actual and standard is known and an underlay of that difference is placed under the galley.

Do not drop chases on bed plate as this practise may cause the bed plate to buckle. Always be sure to *remove bed plate when proving forms in galleys.*

Washup

Raise rider and synthetic distributor roller. Raise form roller lever. Remove vibrator and rider frame to end of press bed. Wash form rollers in carriage, vibrator and rider frame at end of bed and rider and distributor roller in carriage. Wash up press at least once a day. Raise synthetic distributor roller and trip inking carriage to separate rollers and steel distributors every time press is allowed to stand.

Care of Vandercook Synthetic Inking Rollers

Wash rollers daily with naphtha. When rollers become glazed, wash them with lye solution using rubber gloves (4 level teaspoons full to one pint of water). Allow solution to remain on rollers 10 minutes and then wash off with clear water. It is essential that rollers be kept clean. Sufficient time should be taken to *thoroughly* wash the rollers each day with naphtha. The wash with the lye solution is to remove the dried ink from the pores of the rollers. If rollers are properly cleaned each day it is only necessary to use the lye solution about every two months.

Adjusting Form Rollers

Vandercook Synthetic Rollers are standard equipment on the No. 3 Vandercook Proof Press. These rollers rarely require resetting. To check form rollers ink them up and remove the vibrator and rider frame. Remove the bed plate. Slide the Vandercook "Nuway" Roller Setting Gauge under the roller near the edge. If the ink mark on gauge is 1/16" wide at each end of each form roller they are set properly. To adjust the rollers loosen both center set screws at each end of carriage. Turning the large flat screws clockwise raises the roller and counter clockwise lowers the roller. After adjusting both rollers to correct height tighten both set screws. This locks the form roller bearings to the inking carriage. All other rollers require no adjustment.

Repacking Cylinder

The cylinder cut is .070" and is packed with a drawsheet, undersheets and a suitable blanket. The number of sheets required to pack the cylinder will vary with the thickness of the packing sheets and blanket used. When changing packing measure the entire packing with a micrometer before attaching to cylinder or place a straight edge across cylinder bearers and packing after attaching packing to cylinder to make sure cylinder is not over or under packed. Cylinder packing should be approximately .003" higher than cylinder bearers. Over packing causes a slur on printed matter as well as wrinkling of sheet. Under packing causes a slur on printed matter and also pulls sheet out of grippers or packing out of clamping bar. Change top sheet and at least the first undersheet when they become embossed. To change packing move side guide to edge of feedboard. Move cylinder to center of bed so that reel rod is in the up position. Unlatch reel rod ratchet with wrench provided and loosen drawsheet from reel. With left hand grasp drawsheet and packing and as cylinder is returned to feed board lay packing on feed board. Loosen two fillister head screws on packing clamp bar about three turns. Remove drawsheet and undersheets which show embossed effect and replace with new drawsheet and undersheets. Fasten packing clamp bar and then revolve cylinder to bring reel rod up and fasten drawsheet to reel rod. Be sure that packing and drawsheets are tight on cylinder near gripper edge. A loose packing will cause a slur on printed sheet.

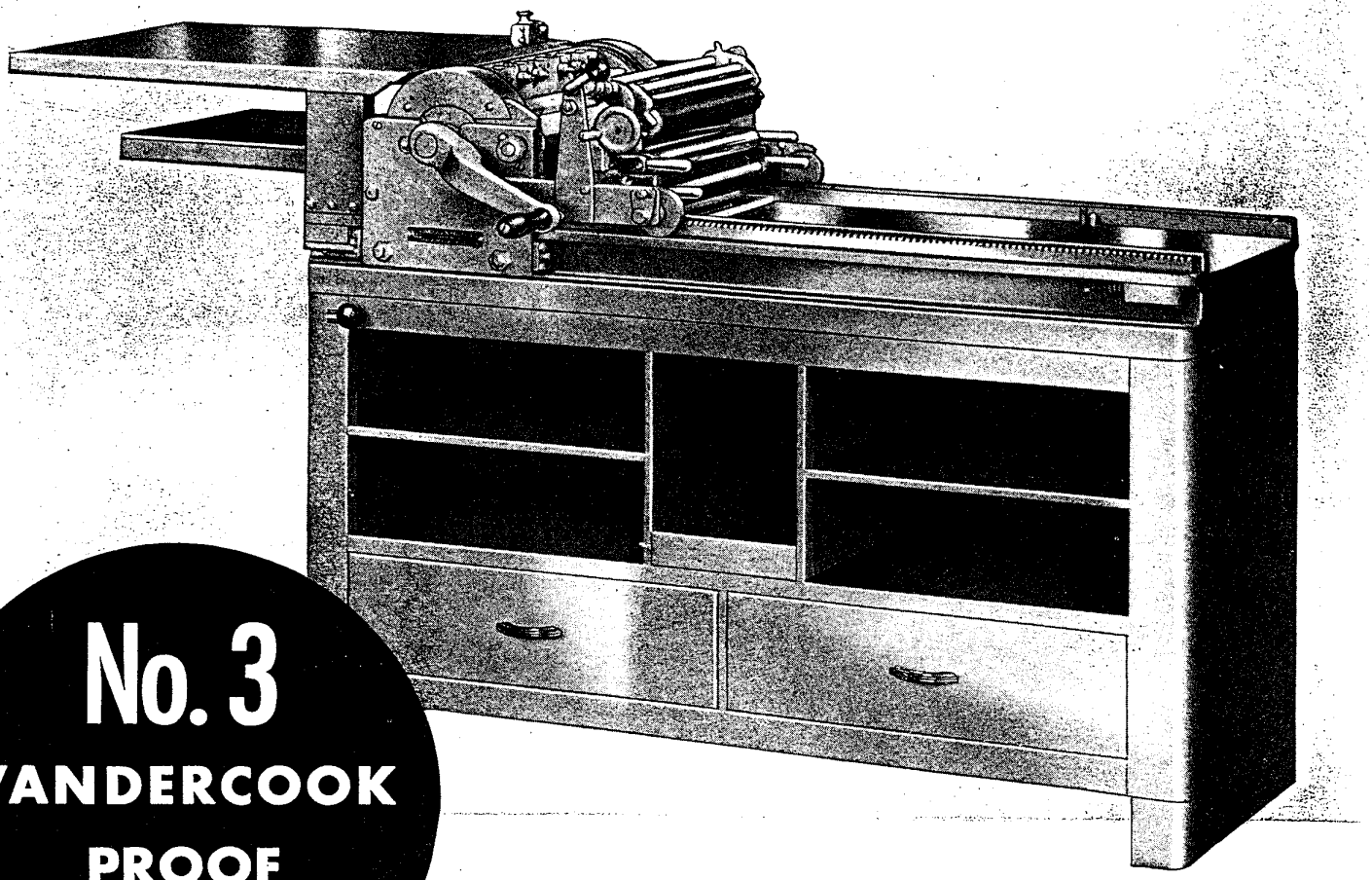
KEEP PRESS CLEAN—PARTICULARLY THE BED AND CYLINDER BEARERS

WASH INKING ROLLERS DAILY

If you have any questions in regard to the operation of this press not covered by these directions write

VANDERCOOK & SONS, 900 North Kilpatrick Avenue, Chicago

Form 294G—10/1/40—Printed in U. S. A.



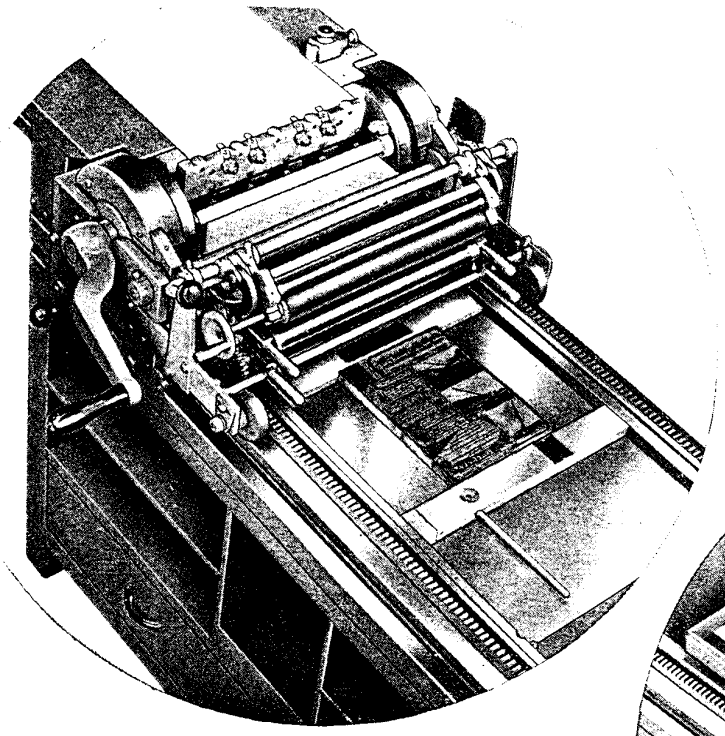
No. 3 VANDERCOOK PROOF PRESS

THIS popular machine might readily be described as a general purpose proof press since it can be used for such a wide variety of purposes in large and small plants alike.

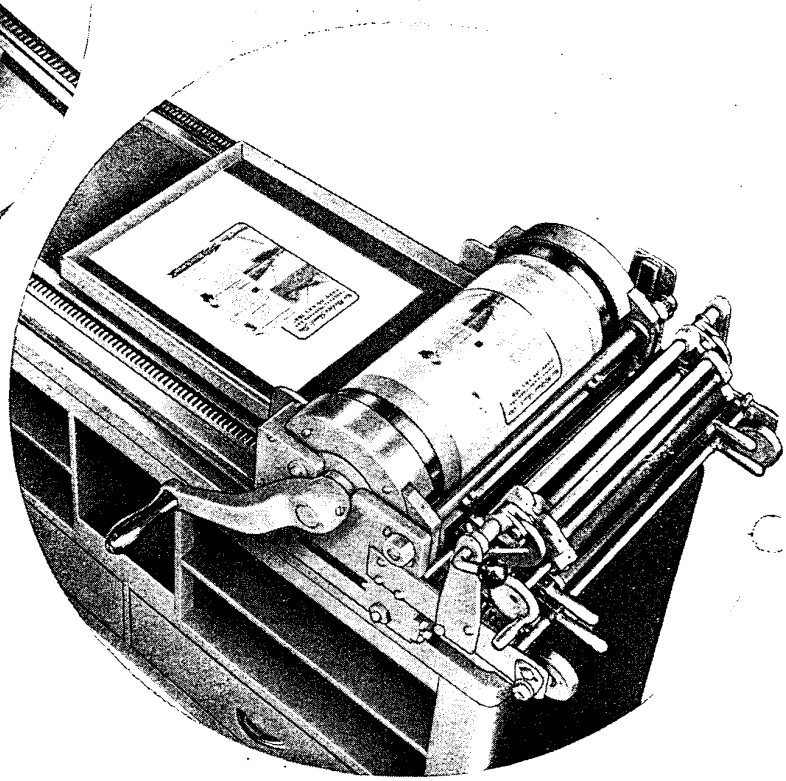
The No. 3 Vandercook is especially popular in plants where the production is not sufficiently large to require power operation and where the volume is about equally divided between galley proofs, customer proofs, and more critical reproduction proofs. The quality of proofs obtainable from a No. 3 Vandercook is excellent, depending of course, upon the skill and care of an operator.

Operation of the press is easy and simple. It is equipped with an efficient automatic inking system, automatic grippers which greatly facilitate feeding, plus micrometer side and front guides for easier registering of sheets when proving color. The No. 3 Vandercook is also provided with a removable galley thickness bed plate to facilitate the proving of forms in galleys.

The No. 3 is one of twelve Vandercook Proof Presses sold in the U.S.A. by American Type Founders



In the view on the left are shown the automatic grippers, the micrometer front guide, micrometer side guide, and the inking system of the No. 3 Vandercook. The inking system has two 2½" synthetic rubber form rollers, two 1 1/16" and one ¾" steel riders, one 3⅞" double thread steel vibrator and one 1⅞" synthetic rubber distributor. Washup is quick and easy. Distributing roller swings out of the way, and vibrator and riders may be removed in one piece.



This view shows the cylinder carriage at the end of a printing stroke. A convenient delivery tray travels with the impression cylinder, where printed sheets may be placed to save time and eliminate unnecessary handling.

The No. 3 Vandercook Proof Press is built for heavy duty and constant use. It has an extra heavy bed and cylinder, plus six precision over-sized ball bearings to assure rigid, accurate impression.

STANDARD EQUIPMENT

Galley thickness bed plate . . . Automatic cylinder grippers . . . Micrometer sheet guides . . . Cylinder trip . . . Steel cabinet with drawers . . . Traveling sheet delivery tray . . . Head dead line bar . . . Foot lockup bar . . . Synthetic rubber inking rollers . . . Extra roller stocks . . . Tympan including blanket . . . 12 extra die cut drawsheets . . . 12 extra die cut undersheets . . . Necessary tools.

SPECIFICATIONS

Bed size 15" x 35" . . . Maximum sheet 14¾" x 20" . . . Maximum form 14" x 18" . . . Floor space 2'2" x 6'6" . . . Crated shipping weight 1200 Lbs. . . . Finished in machine tool gray.

OPTIONAL EQUIPMENT

Vandercook handy lockup bar . . . Celluloid register punch.

VANDERCOOK PRE-PRESS SYSTEM – CUTS COSTS!

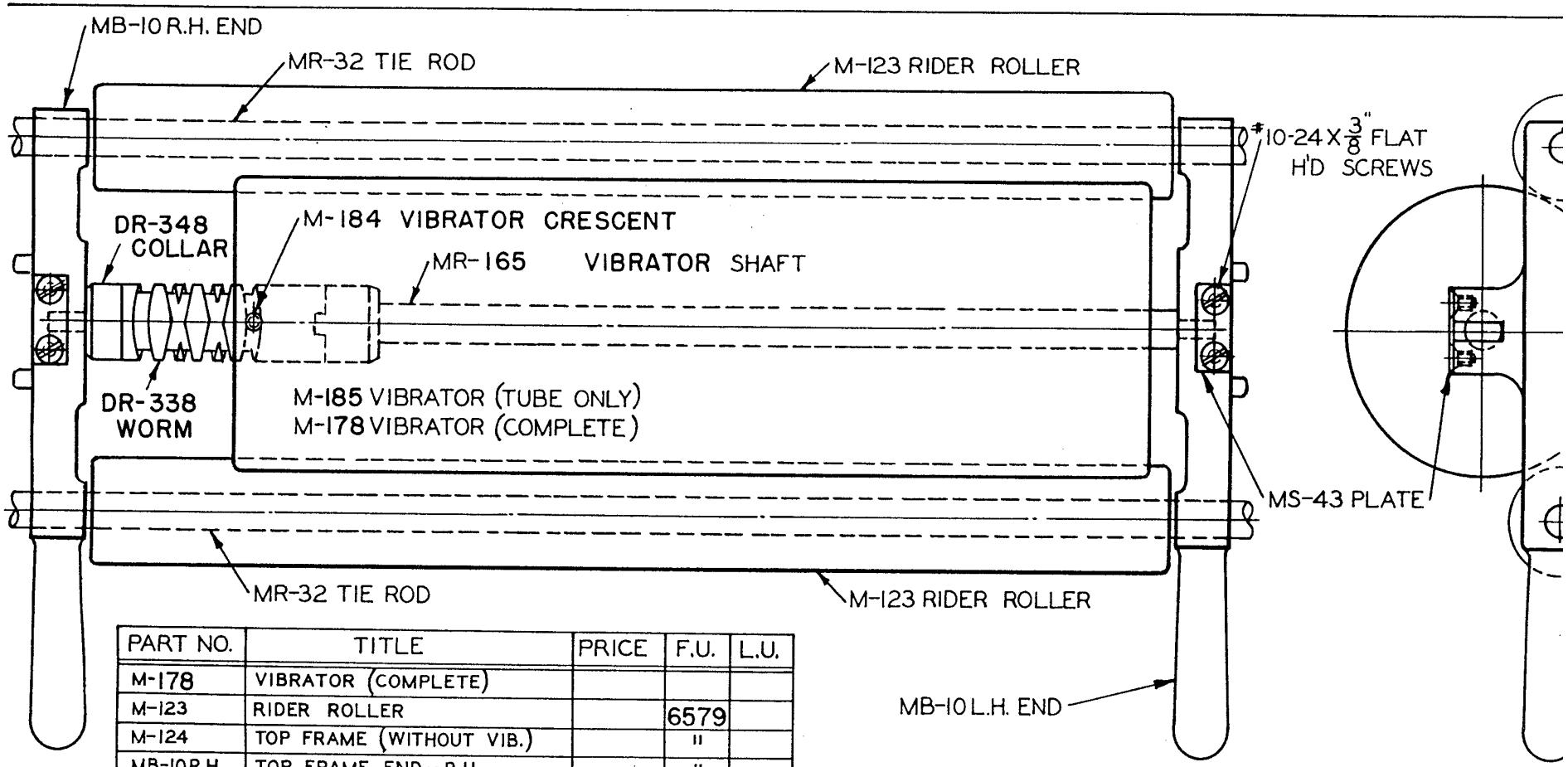
VANDERCOOK & SONS, INC.

Main Office & Plant: 900 N. Kilpatrick Ave., Chicago 51, Ill.

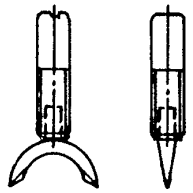
Eastern Branch: 216 East 45th St., New York 17, N.Y.

Western Branch: 1151 S. Broadway, Los Angeles 15, Calif.

PRINTED IN U.S.A.



PART NO.	TITLE	PRICE	F.U.	L.U.
M-178	VIBRATOR (COMPLETE)			
M-123	RIDER ROLLER		6579	
M-124	TOP FRAME (WITHOUT VIB.)		"	
MB-10R.H.	TOP FRAME END—R.H.		"	
MB-10 L.H.	TOP FRAME END—L.H.		"	
MR-32	TIE ROD		"	
MR-165	VIBRATOR WORM SHAFT			
M-184	CRESCENT & HOLDER			
MS-43	VIBRATOR REST PLATE		6579	
M-185	VIBRATOR TUBE			



M-184
VIBRATOR CRESCENT

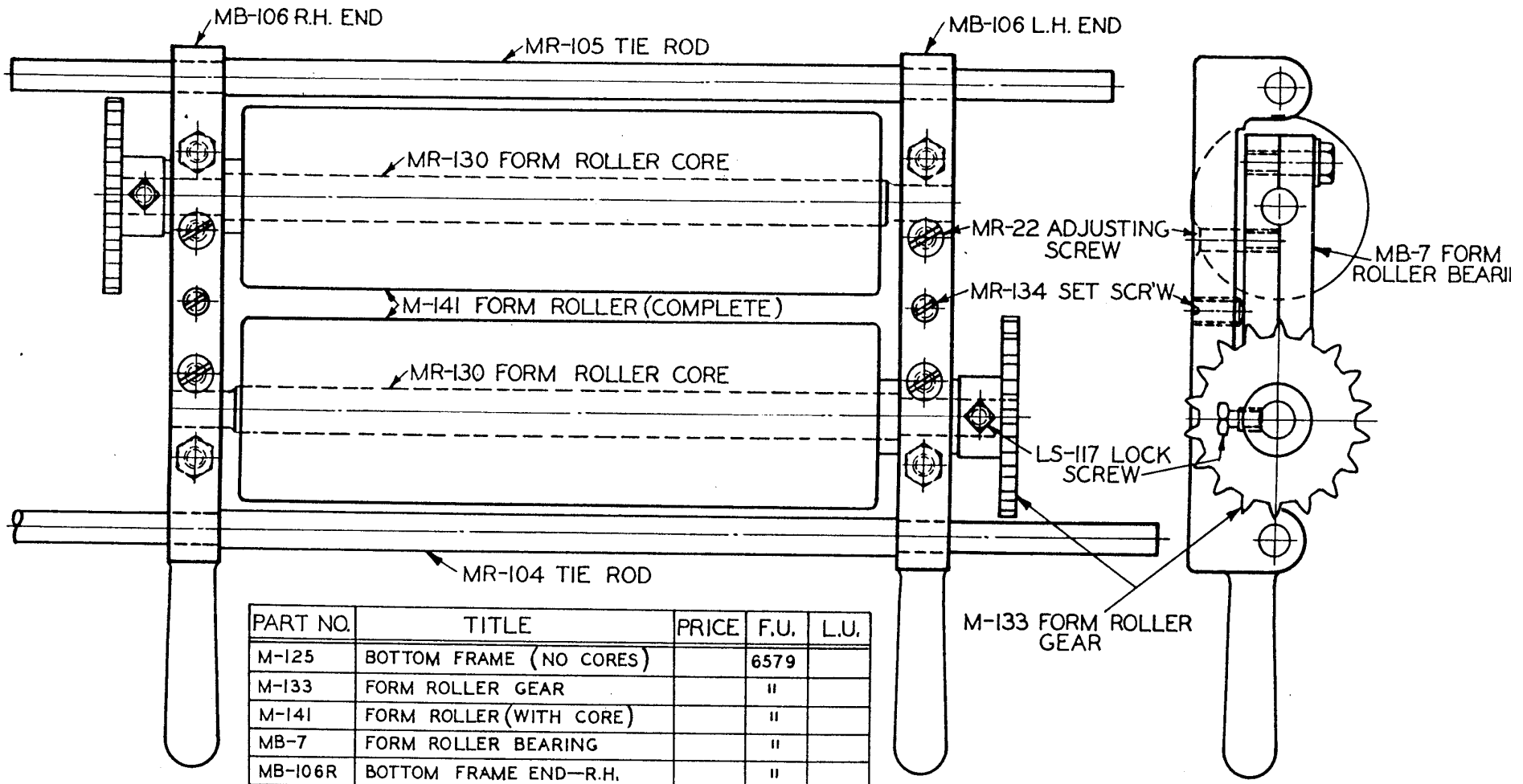
LUBRICATION

KEEP VIBRATOR WORM THOUROUGHLY COVERED WITH VASELINE AT ALL TIMES.

M-124 TOP FRAME ASSEMBLY
NO.3 VANDERCOOK PROOF PRESS

F.U. 6579

SHEET NO. 95

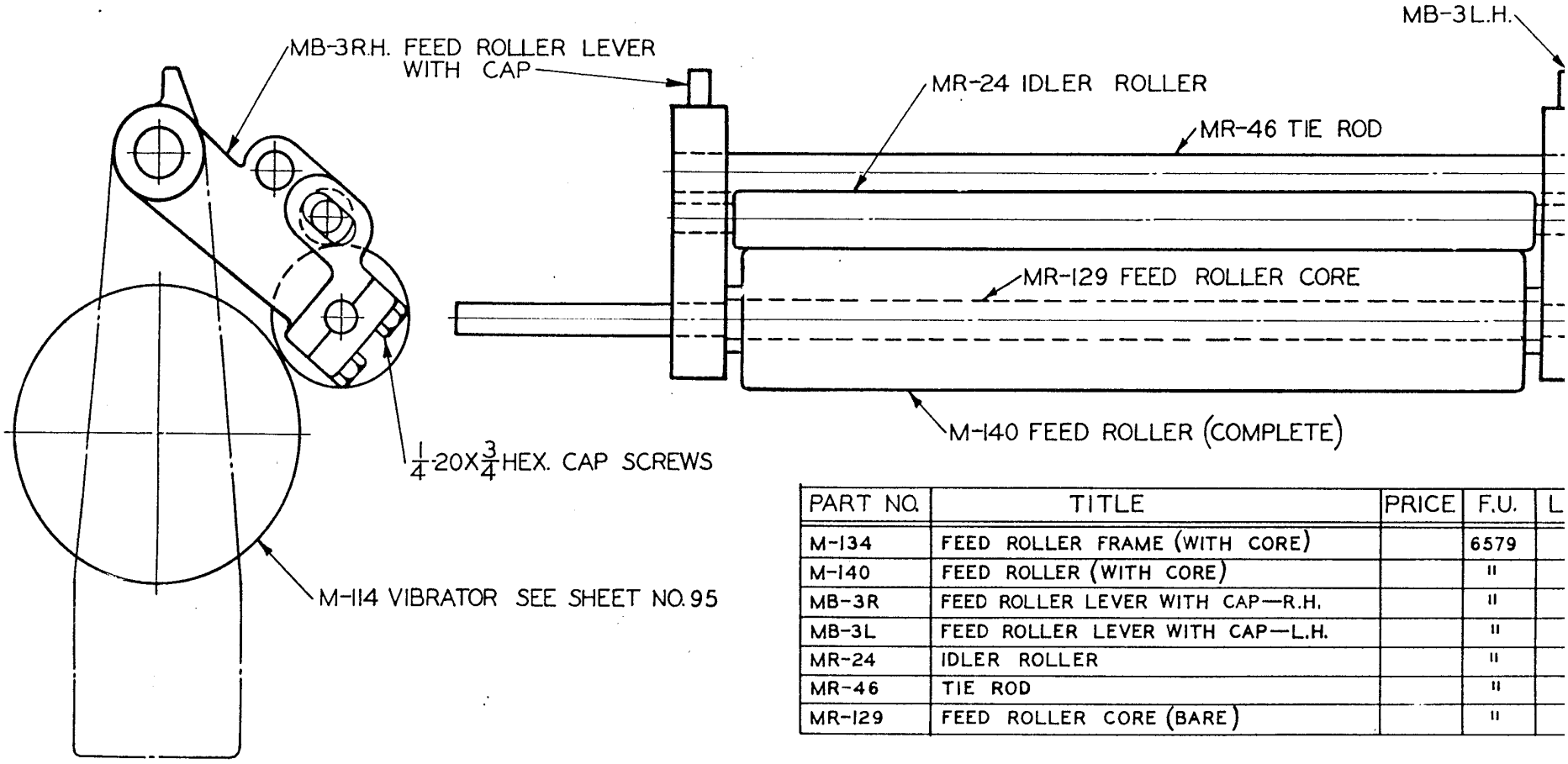


PART NO.	TITLE	PRICE	F.U.	L.U.
M-125	BOTTOM FRAME (NO CORES)		6579	
M-133	FORM ROLLER GEAR		"	
M-141	FORM ROLLER (WITH CORE)		"	
MB-7	FORM ROLLER BEARING		"	
MB-106R	BOTTOM FRAME END—R.H.		"	
MB-106L	BOTTOM FRAME END—L.H.		"	
MR-22	ADJUSTING SCREW		"	
MR-104	FRONT TIE ROD		"	
MR-105	REAR TIE ROD		"	
MR-130	FORM ROLLER CORE (BARE)		"	
MR-134	SET SCREW		"	

M-125 BOTTOM FRAME ASSEMBLY
NO.3 VANDERCOOK PROOF PRESS

F.U. 6579

SHEET NO. 96

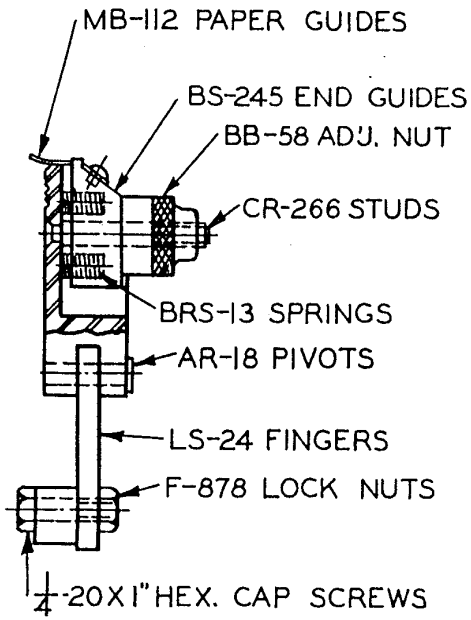


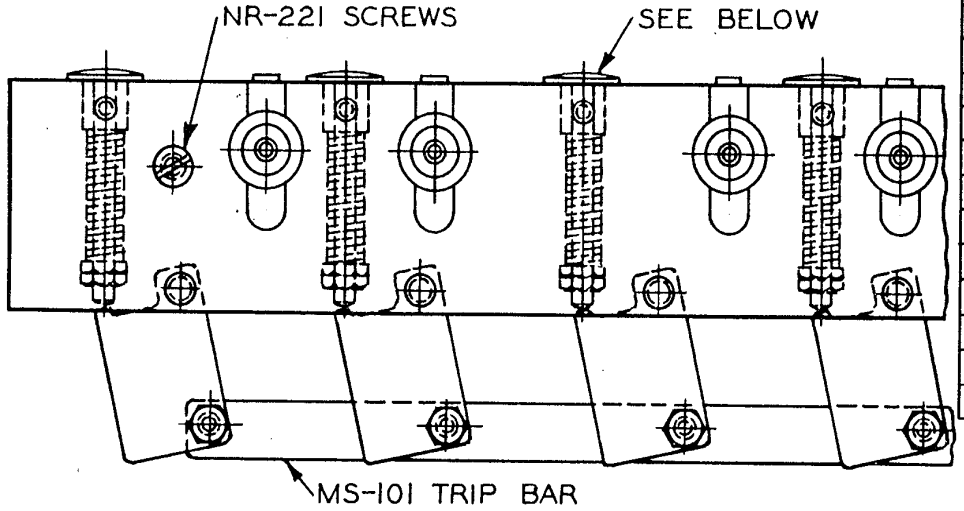
PART NO.	TITLE	PRICE	F.U.	L
M-134	FEED ROLLER FRAME (WITH CORE)		6579	
M-140	FEED ROLLER (WITH CORE)		"	
MB-3R	FEED ROLLER LEVER WITH CAP—R.H.		"	
MB-3L	FEED ROLLER LEVER WITH CAP—L.H.		"	
MR-24	IDLER ROLLER		"	
MR-46	TIE ROD		"	
MR-129	FEED ROLLER CORE (BARE)		"	

M-134 FEED ROLLER FRAME ASSEMBLY
NO. 3 VANDERCOOK PROOF PRESS

F.U. 6579

SHEET NO. 9

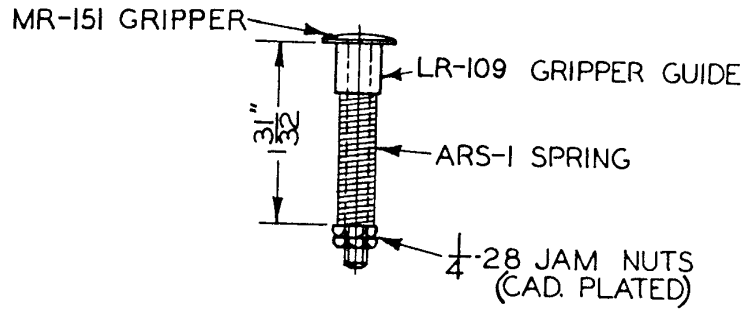




PART NO.	PRICE	F.U.	L.U
AR-18		6579	
ARS-1		"	
BB-58		"	
BRS-13		"	
BS-245		"	
CR-266		"	
F-878		"	
LR-109		"	
LS-24		"	
M-160		"	
MB-112		"	
MR-151		"	
MS-101		"	
NR-221		"	

LUBRICATION

A FINE MACHINE OIL IS RECOMMENDED FOR ALL MOVING PARTS. LEAVING GRIPPERS OPEN WHEN PRESS IS IDLE WILL ALLOW OIL TO COVER GRIPPER SHANKS THOUROUGHLY.



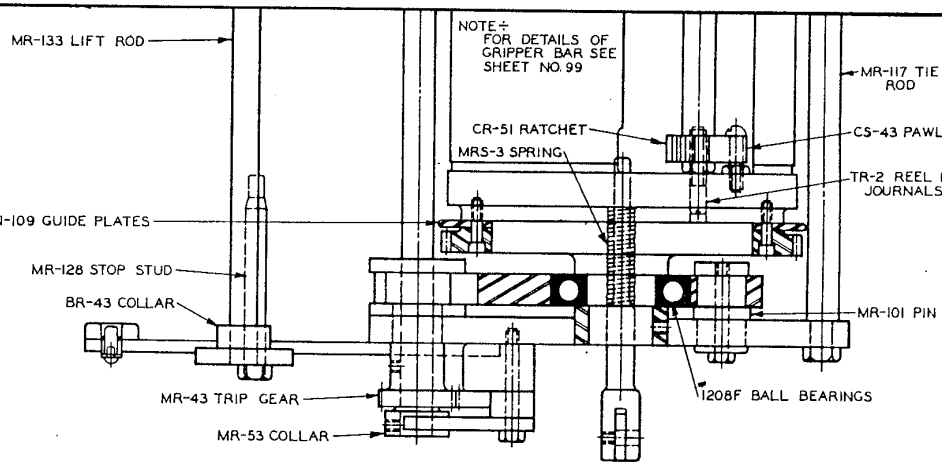
M-160 GRIPPER ASSEMBLY

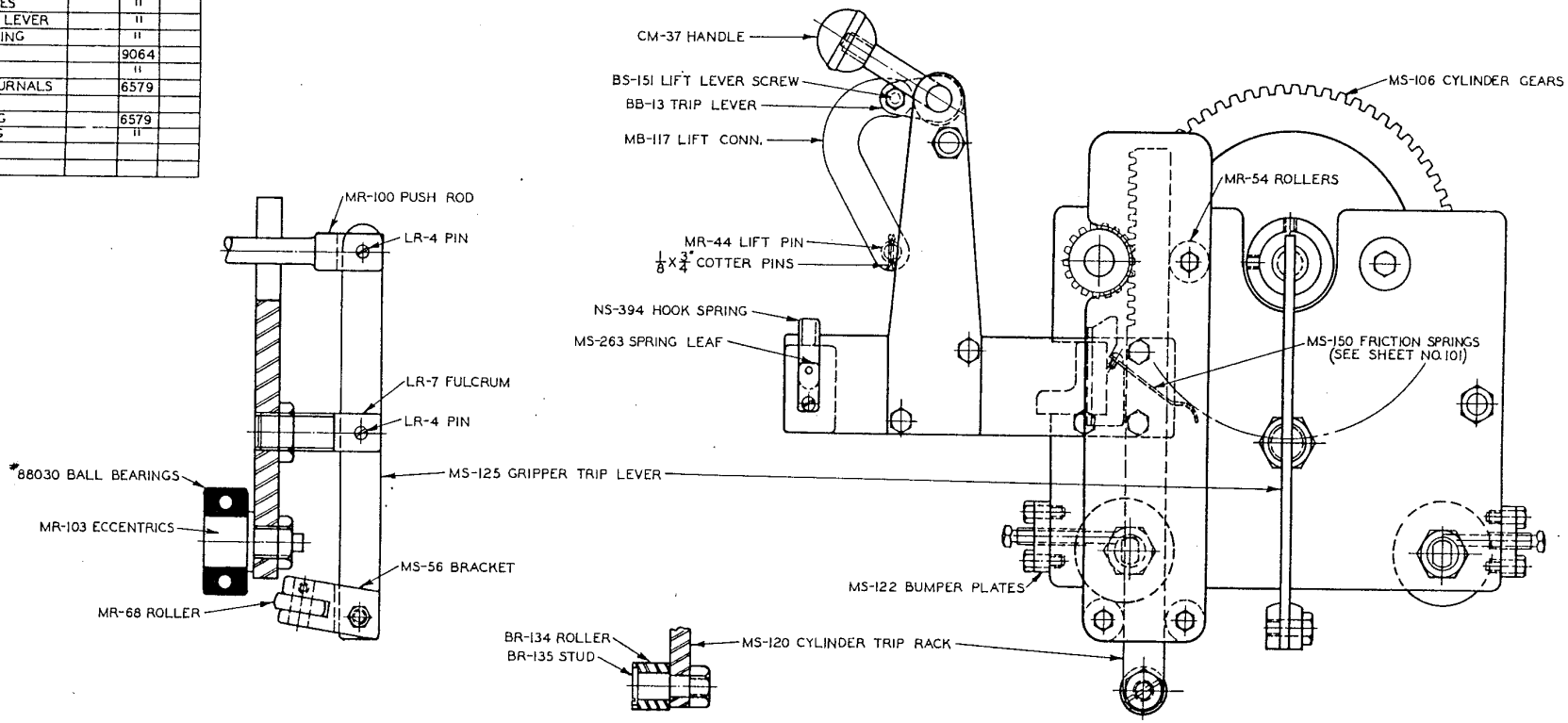
TYMPAN CLAMP BAR ASSEMBLY
NO. 3 VANDERCOOK PROOF PRESS

F.U. 6579

SHEET NO. 98

ART NO.	TITLE	PRICE	F.U.	L.U.
B-13	TRIP LEVER		6579	
R-43	COLLAR		"	
R-134	ROLLER		"	
R-135	STUD		"	
S-151	LIFT LEVER SCREW		"	
M-37	HANDLE		"	
R-51	RATCHET		"	
S-43	PAWL		"	
R-4	PIN		"	
R-7	FULCRUM		"	
B-117	LIFT CONN.		"	
N-109	GUIDE PLATE		"	
R-44	PIN		"	
R-43	TRIP GEAR		"	
R-53	COLLAR		"	
R-54	ROLLER		"	
R-68	ROLLER		"	
R-100	PUSH ROD		"	
R-101	PIN		"	
R-103	ECCENTRIC		"	
R-117	TIE ROD		"	
R-128	STOP STUD		"	
R-133	LIFT ROD		"	
RS-3	SPRING		"	
S-56	BRACKET		"	
S-106	CYLINDER GEAR		"	
S-120	CYLINDER TRIP RACK		"	
S-122	BUMPER PLATES		"	
S-125	GRIPPER TRIP LEVER		"	
S-150	FRICTION SPRING		"	
S-263	SPRING LEAF		9064	
S-394	HOOK SPRING		"	
TR-2	REEL ROD JOURNALS		6579	
208F	BALL BEARING		6579	
38030	BALL BEARING		"	





F.U. 6579

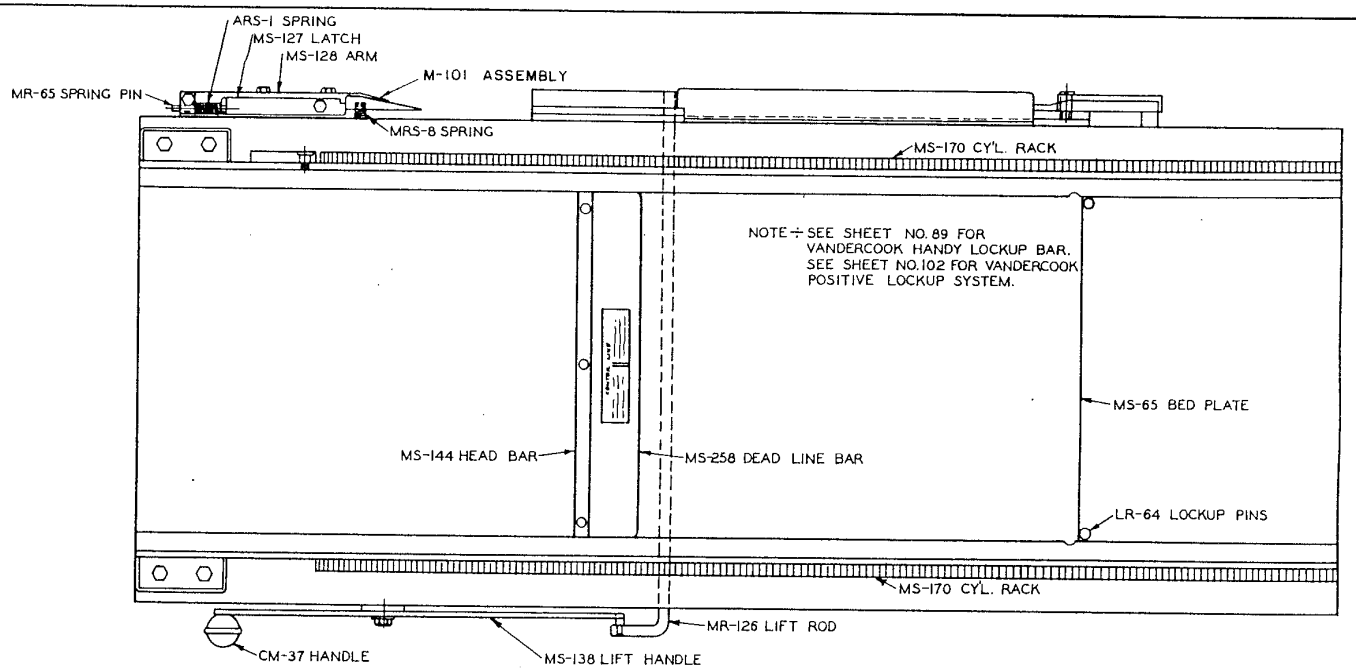
CYLINDER CARRIAGE
NO. 3 VANDERCOOK PROOF PRESS

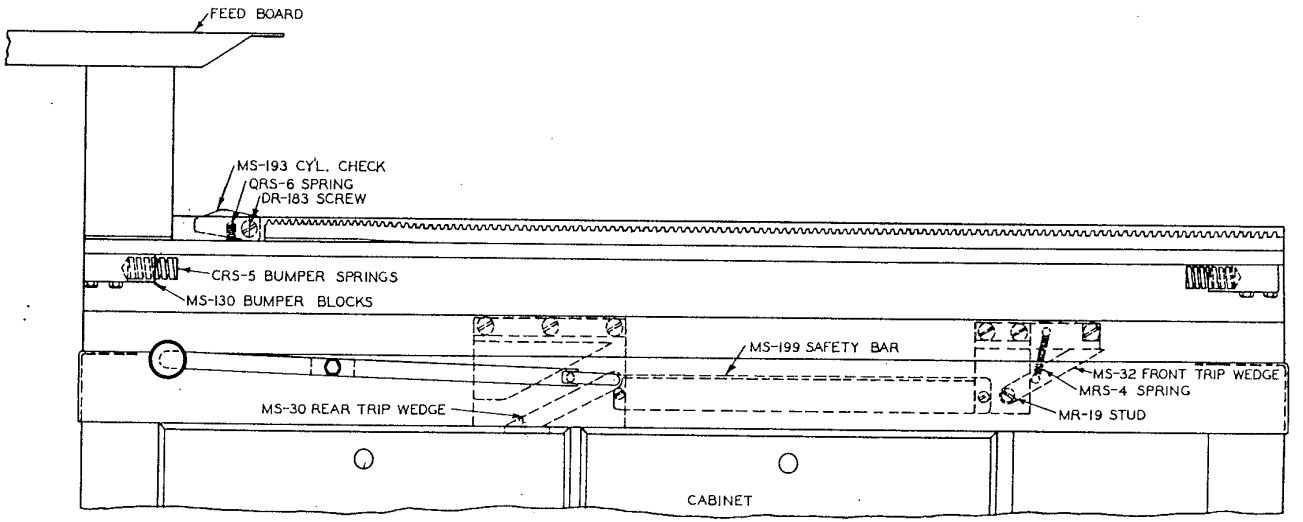
SHEET NO. 99

RT NO.	TITLE	PRICE	F.U.	L.U.
S-1	SPRING		6579	
-37	HANDLE		"	
S-5	BUMPER SPRING		"	
-64	LOCKUP PIN		"	
-183	SCREW ◆		7357	
-19	STUD		6579	
-65	SPRING PIN		"	
-126	LIFT ROD		"	
S-4	SPRING		"	
S-8	SPRING		"	
-30	REAR TRIP WEDGE		"	
-32	FRONT TRIP WEDGE		"	
-65	BED PLATE		"	
-127	LATCH		"	
-128	ARM		"	
-130	BUMPER BLOCK		"	
-138	LIFT HANDLE		"	
-258	DEAD LINE BAR		"	
-144	HEAD BAR		"	
-170	CYLINDER RACK		"	
-193	CYLINDER CHECK ◆		7357	
-199	SAFETY BAR ▲		7701	
S-6	SPRING ◆		7357	

◆ SEE SHEET NO. 5 FOR CYLINDER CHECK FOR MACHINES BEFORE SERIAL NO.7357.

▲ THE SAFETY BAR WAS ADOPTED AS STANDARD EQUIPMENT BEGINNING WITH PRESS SERIAL NO.7701. SAFETY BARS (DESIGNED FOR EASY INSTALLATION WITHOUT DRILLING) ARE AVAILABLE FOR ALL BEFORE.



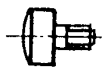


PLAN & SIDE VIEWS OF BED NO.3 VANDERCOOK PROOF PRESS

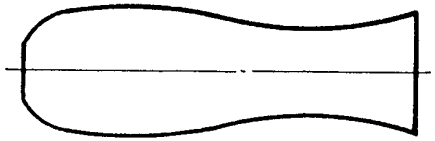
F.U. 6579

SHEET NO. 100

PART NO.	PRICE	F.U.	L.U.
M-116		6579	
MR-127		"	
MR-144		"	
MS-150		"	
MS-151		"	
MS-152		"	
LM-18		"	
LR-73		"	
QR-542		"	8547
F-738		"	
F-739		"	
F-742		"	
F-743		"	
F-744		"	
F-778		"	
L-38		"	

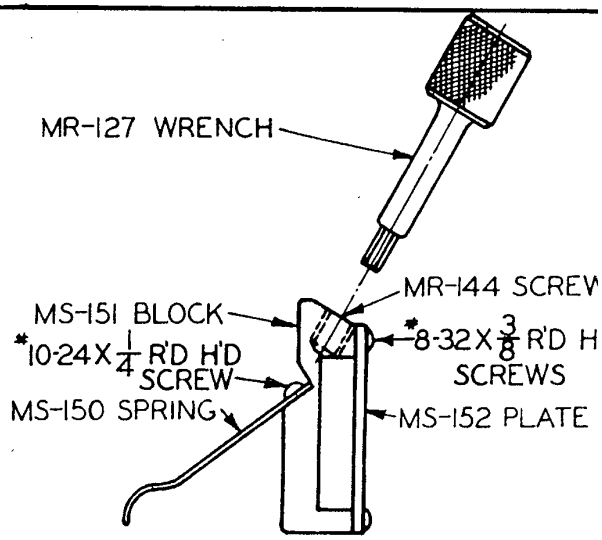


LR-73
HANDLE SCREW

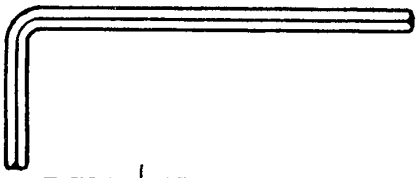


LM-18
HANDLE

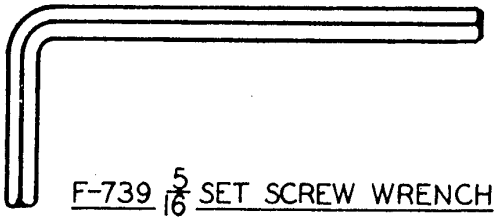
QR-542 LEVELING PIN
FOR CABINET FEET



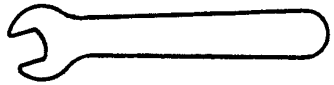
M-116 FRICTION SPRING ASSEMBLY



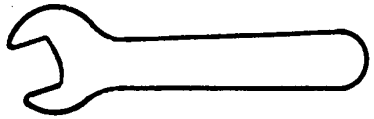
F-738 1/4 SET SCREW WRENCH
FOR GENERAL USE



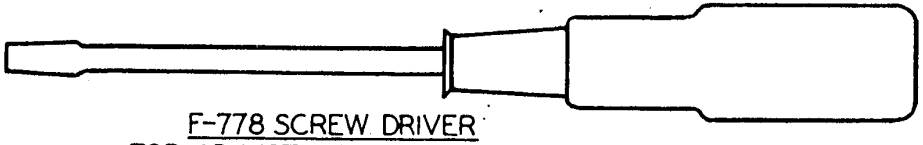
F-739 5/16 SET SCREW WRENCH
FOR GENERAL USE



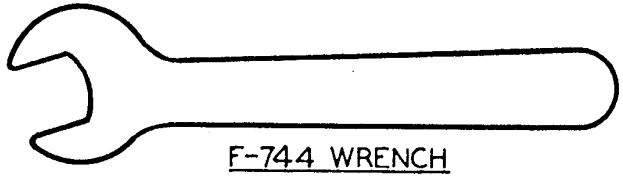
F-742 WRENCH
FOR FORM ROLLER GEAR LOCK SCREWS



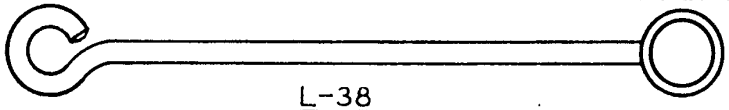
F-743 WRENCH
FOR FORM ROLLER BEARING CAP SCREWS



F-778 SCREW DRIVER
FOR ADJUSTING FORM ROLLERS



F-744 WRENCH
FOR REEL ROD



L-38
ROLLER SETTING GAUGE

F.U. 6579

TOOLS
NO. 3 VANDERCOOK PROOF PRESS

SHEET NO. 101