

DIRECTIONS

For Vandercook Proof Press

Model No. 4

Serial No. _____

FUNDAMENTALS

1. Wash inking rollers daily.
2. Keep cylinder packing in good condition.
3. Keep press clean - particularly cylinder and bed bearers.
4. Keep press well oiled.

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

VANDERCOOK & SONS, 900 North Kilpatrick Avenue, Chicago

When Requesting Information Or Ordering Parts Always Give Serial Number

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CAUTION

Before connecting motor be sure to check current specifications on motor plate. Ink drum should run counter clockwise, looking from the operator's side of the Press.

A - LEVEL PRESS

Place a spirit level on the bed and level by adjusting screws, which are in the legs of the machine.

B - CLEAN PRESS

It is essential that bed and cylinder bearers are kept clean. After cleaning wipe with an oily rag. Do not allow dirt to accumulate on bed. A clean bed, bed bearers and cylinder bearers will assure a true impression of type or plates. Keep bottoms of cylinder gears and bed racks free from dirt and paper dust.

C - LUBRICATION

OIL ONCE A WEEK

Fill all oil holes and cups with S.A.E. 20 Motor Oil. Oil gripper stems when grippers are open with a fine oil (3 in 1 or equivalent). Lubricate vibrator worm on form roller carriage with vaseline.

MOTOR LUBRICATION

Oil cups are provided at either end of motor bearings on plain bearing motors. These should be filled every month of press operation with S.A.E. 20 Motor Oil. Bearings for ball bearing motors should be repacked once a year.

INK DRUM SPEED REDUCER

The oil level in the speed reducer should be checked every month. Add S.A.E. 40 Oil as required, to bring up to proper level.

D - WASHUP PRESS

Move cylinder about a foot away from feedboard. Raise ink unit lever and remove vibrator and rider frame to end of bed. Wash form rollers in lower carriage with ink unit lever up. This allows easy access to rollers for a thorough washup. Wash vibrator and rider of top frame at end of bed. After washing top and bottom roller units replace top frame in inking unit and move cylinder to end of bed. With motor running, wash ink drum.

E - REPACKING CYLINDER

The cylinder is ground for ^{.010}~~.040~~" packing. It is very important that the correct amount of packing is carried on the cylinder. Incorrect packing is apt to cause misregister, slurs and wrinkles. Over packing will cause the cylinder to print longer than the form and under packing, shorter. The cylinder packing plus the sheet to be printed should be from .002" to .003" over the cylinder bearers. This can be checked with a straight edge. For most work the best cylinder packing consists of all hard manila sheets. Thickness of packing may be adjusted by placing thin sheets next to the cylinder.

To change or adjust packing move cylinder to center of bed (on trip if there is a form or plate on the bed) so that the reel rod is in the up position. Unlatch reel rod ratchet with wrench provided and loosen drawsheet from reel. With left hand grasp packing and as cylinder is returned to feed board lay packing on feed board. If necessary to change the drawsheet loosen the fillister head screws in the packing clamp gripper bar. Unless overlays are being used only the drawsheet is held by this bar. When moving cylinder to center of bed to secure packing hold packing in position by smoothing it out with left hand. Be sure packing is tight to cylinder at both sides of gripper edge.

F - SET FORM ROLLERS

Unless otherwise specified, the press is equipped with Synthetic Inking Rollers. These rollers do not change diameter with temperature and humidity as readily as composition rollers, and therefore do not require frequent checking and adjustment. To check the rollers, ink up the inking unit and remove the steel distributors. Move cylinder to the end of bed and insert the Vandercook "Nuway" Roller Setting Gauge between bed and rollers near the end of the roller. If the ink mark on gauge is 1/16" to 3/32" 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. The steel distributors require no adjustment.

G - OPERATION

The cylinder will always be on "impression" on its forward travel away from the feed board, unless the impression trip knob is depressed before the cylinder is started. When taking an impression the cylinder must be moved all the way to the other end of the bed in order that the automatic cylinder trip for the return travel of the cylinder will operate.

When the press is not in use the motor driven ink drum should always be turned off and the inking system tripped. When the inking system is tripped, the form rollers are free of all contact with the steel distributors. Some operators believe that the ink will dry more slowly if the inking system is kept in operation on the ink drum. Just the reverse is true; the ink will dry much faster if the rollers are kept turning and the entire inking system is subjected to needless wear. Ink should be applied to the vibrator with the inking carriage tripped.

The end sheet guide, nearest the side guide, should always be a trifle in advance of the end guide nearest the operator. This is to prevent misregister because of the sheet dragging against the side guide.

The No. 4 Vandercook has Combination Foot Operated and Automatic Grippers. For fast operation on single color work, the sheet is allowed to overhang the feed board edge about 1-1/2". The grippers open automatically and take the sheet from the feed board. For close register work, the grippers are opened by the foot pedal and the sheet fed directly to the guides.

Be very careful not to place forms or plates beyond the dead line at the feed board end of the bed. The grippers and end guides will hit any type high material placed beyond the dead line.

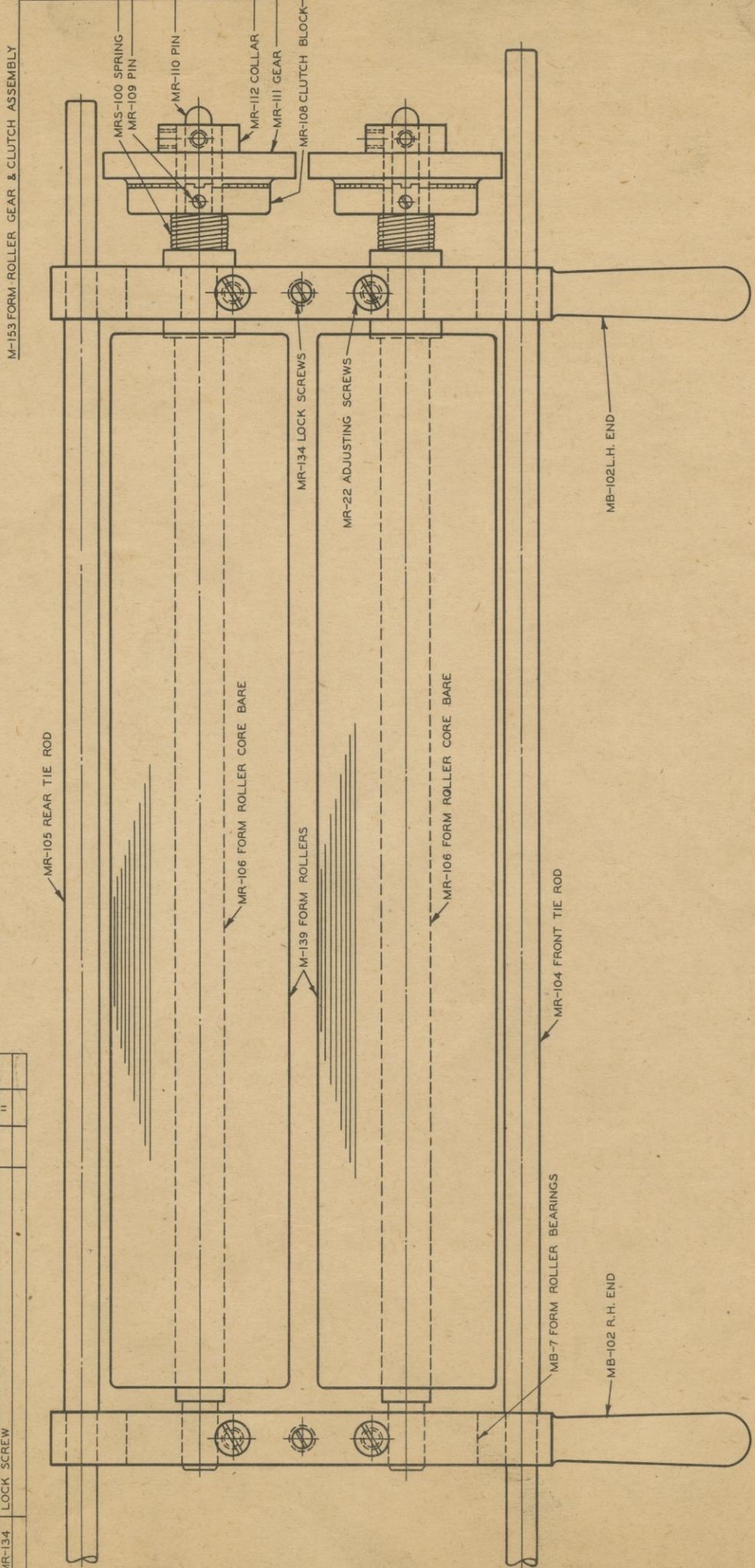
H - ADJUST INK DRUM CHAIN

After a few weeks of operation, the Drive Chain may stretch a slight amount and rattle against the Guard. If this condition prevails, loosen the cap screws on the Speed Reducer and pull the Reducer back until the chain is taut.

J - ADJUST MOTOR BELT

Lower the motor by loosening four nuts on the under side of motor bracket and follow up with tightening four nuts on the top side of motor bracket.

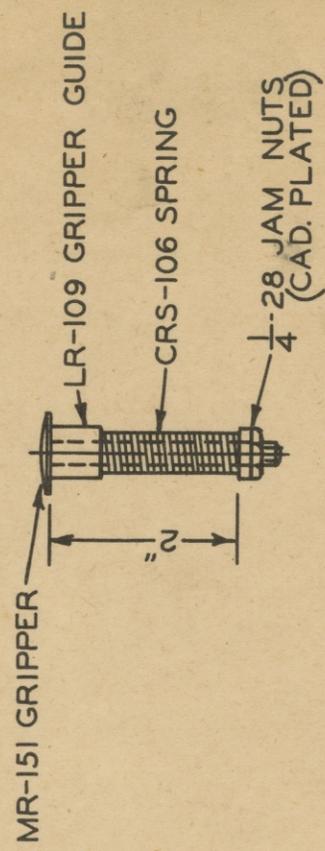
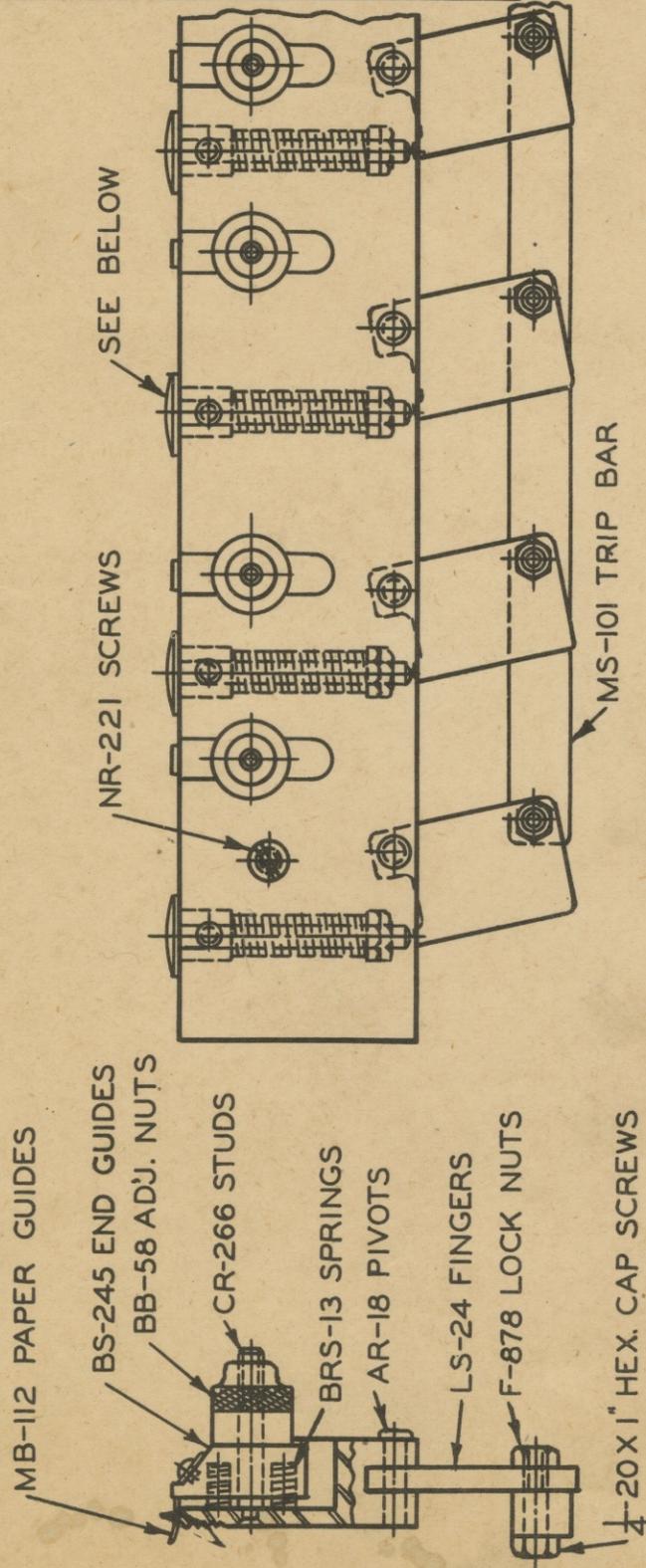
PART NO.	TITLE	PRICE	F.U.	L.U.
M-121	BOTTOM FRAME (COMPLETE WITHOUT CORES & GEARS)	6369		
M-139	FORM ROLLER (VULCANIZED LINSEED OIL) WITH CORE	"	"	"
M-139	FORM ROLLER (SYNTHETIC RUBBER) WITH CORE	"	"	"
M-153	FORM ROLLER GEAR & CLUTCH ASSEMBLY	"	"	"
MB-7	FORM ROLLER BEARING	"	"	"
MB-102R	BOTTOM FRAME END-R.H.	"	"	"
MB-102L	BOTTOM FRAME END-L.H.	"	"	"
MR-22	ADJUSTING SCREWS	"	"	"
MR-104	FRONT TIE ROD	"	"	"
MR-105	REAR TIE ROD	"	"	"
MR-106	FORM ROLLER CORE BARE	"	"	"
MR-108	CLUTCH BLOCK	"	"	"
MR-109	CLUTCH BLOCK PIN	"	"	"
MR-110	CLUTCH PIN	"	"	"
MR-111	FORM ROLLER GEAR	"	"	"
MR-112	COLLAR	"	"	"
MRS-100	SPRING	"	"	"
MR-134	LOCK SCREW	"	"	"



BOTTOM FRAME ASSEMBLY
NO. 4 VANDERCOOK PROVING MACHINE

SHEET
NO. 103

PART NO.	PRICE	F.U.	L.U.
AR-18	6369		
BB-58	"	"	"
BRS-13	"	"	"
BS-245	"	"	"
CR-266	"	"	"
CRS-106	"	"	"
F-878	"	"	"
LR-109	"	"	"
LS-24	"	"	"
M-166	"	"	"
MB-112	"	"	"
MR-151	"	"	"
MS-101	"	"	"
NR-221	"	"	"



M-166 GRIPPER ASSEMBLY

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 THOUGHLY.

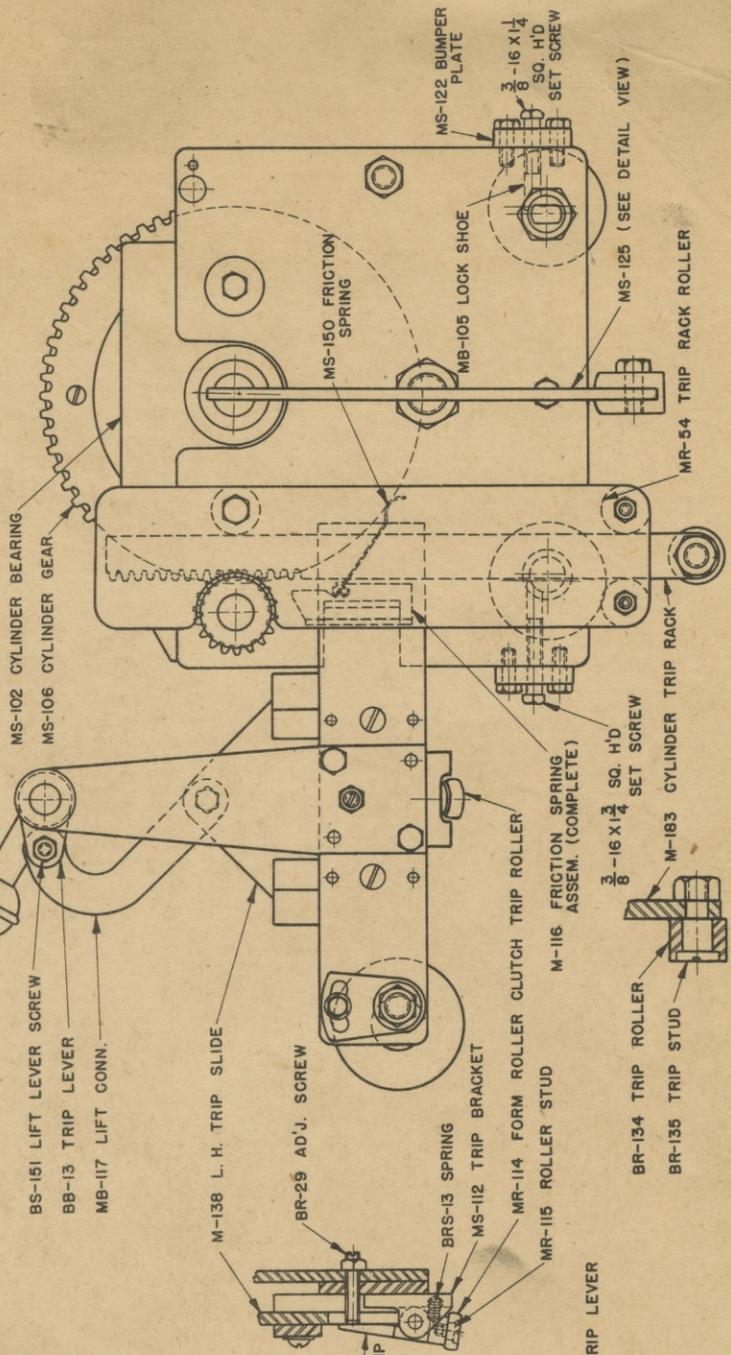
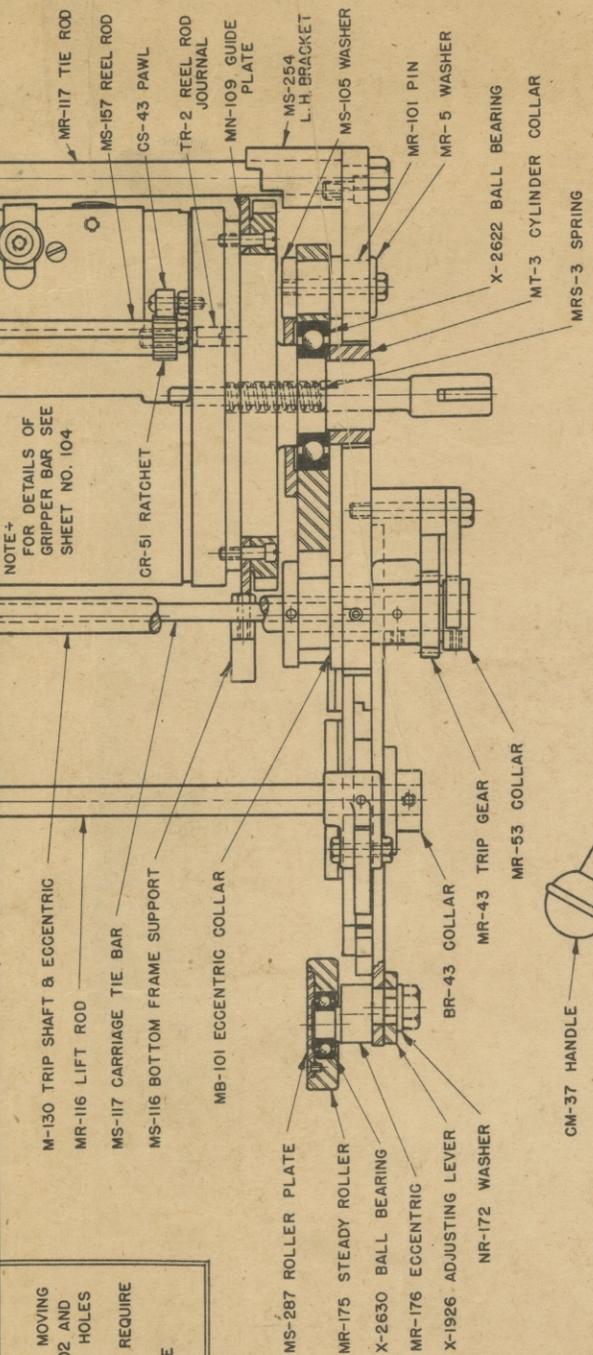
LUBRICATION

S.A.E. #20 MOTOR OIL IS RECOMMENDED FOR ALL MOVING PARTS. NOTE OIL HOLES IN CYLINDER BEARING MS-102 AND ONE HOLE IN EACH CYLINDER CARRIAGE PLATE ALSO HOLES IN TRIP BRACKET MS-112.

ALL BALL BEARINGS ARE PACKED IN GREASE AND REQUIRE NO FURTHER ATTENTION.

A LIGHT FILM OF OIL SHOULD BE KEPT ON THE SURFACE OF IMPRESSION WHEELS AT ALL TIMES.

PART NO.	PRICE	F. U.	L. U.
M-116	6369		
M-130	"		
M-138	"		
M-183	"		
MB-101	"		
MB-104	"		
MB-105	"		
MB-117	8936		
MN-109	6369		
MR-5	"		
MR-43	"		
MR-53	"		
MR-94	"		
MR-99	"		
MR-68	"		
MR-100	"		
MR-101	"		
MR-103	"		
MR-112	"		
MR-114	"		
MR-115	"		
MR-116	"		
MR-117	"		
MR-175	9990		
MR-176	"		
MRS-3	6369		
MS-56	"		
MS-102	"		
MS-105	"		
MS-106	"		
MS-116	"		
MS-117	"		
MS-122	"		
MS-125	"		
MS-150	"		
MS-157	"		
MS-254	8882		
MS-287	9990		
MT-3	6369		
BB-13	6369		
BR-29	"		
BR-43	"		
BR-134	"		
BR-135	"		
BRS-13	"		
BS-151	"		
CM-37	6369		
CR-51	"		
CS-43	"		
NR-172	9990		
LR-4	6369		
LR-7	"		
TR-2	6369		
X-1926	9990		
X-2622	6369		
X-2630	9990		
X-2688	6369		
MR-103 ECCENTRIC			
X-2688 BALL BEARING			
MR-68 ROLLER			
MR-59 ROLLER PIN			



CYLINDER CARRIAGE

NO. 4 VANDERCOOK PROOF PRESS

SHEET NO. 106

F. U. 6369

