

OPERATING INSTRUCTIONS  
REPREX\* PROOF PRESS

GENERAL

The REPREX\* PROOF PRESS is shipped fully assembled and ready for operation with exception of the feed board, which is packed with the tools, cylinder packing, etc., on one of the lower shelves of the press.

Standard equipment furnished includes the following:

- 1- Foot lockup bar with pins.
- 2- Set of two synthetic form rollers with drive gear on one roller.
- 3- One polished steel rider roller.
- 4- Package of twenty-five undersheets and twenty-five drawsheets.
- 5- Set of two roller cores.
- 6- Feed board with four bolts for attaching brackets.
- 7- Micrometer side paper guide.
- 8- Hand operating crank with key, impression release lever and other loose parts.
- 9- Galley thickness bed plate except on presses with .918" bearers.
- 10- Set of tools, consisting of: Wrench, screw driver, special roller setting wrench, 1/4" set screw wrench and type high setting gauge.

ASSEMBLY

Wipe protective grease off bright metal parts, with a clean cloth, use solvent where necessary. Fit crank to shaft, insert key and tighten set screws. Check operation to make sure that there are no obstructions preventing free movement of cylinder. To lessen the possibility of breakage in shipment, impression release lever has been removed. Re-assemble this part in threaded hole in throw-off quadrant and tighten lock nut. To attach the feed board, remove the plate from the rear of BRACKET covering switch and pilot light wiring, locate in position and attach with the four bolts furnished. Replace cover plate.

### MICROMETER SIDE GUIDE

The micrometer side guide is also shipped separately. Install this part by removing the threaded black knob, screw and spring. Place the spring under the slot in the feedboard and reassemble with the block and adjust slide on the top of feed board. The rim of the knurled head should be in the slot and slightly below the level of the top of the feed board to present a smooth surface to the edge of the sheet. Rough adjustment is made by loosening the black knob and sliding guide to desired position. Fine adjustment is accomplished by turning the knurled head.

### CYLINDER BANDS

In adjusting the cylinder bands, be careful that they do not interfere with the cylinder register guides or grippers. Serious damage may result if they are placed in such a way that they catch the guides or gripper heads on the return stroke.

### PACKING THE CYLINDER

The cylinder on the REPRESS\* Proof Press is normally machined .040" below the surface of the bearers, using six sheets of regular or .006" tympan paper (as furnished) a total thickness of .042" is obtained. This should provide .002" for impression if the form is accurately type-high. The kind of cushion used may be varied from quite hard to extremely soft such as a rubber blanket. Each type has its own particular advantages.

To pack the cylinder, return the carriage to the feed board end of the stroke, then with the screw driver, furnished, loosen the two screws in

the gripper bar, and pull it forward leaving an opening about 1/8 inch wide to receive the lip of the drawsheet. Place drawsheet on the feed board with the printed side up\* and fold downward on the score line. Insert the folded end behind the gripper bar, making sure that it is flat against the cylinder and that the notched holes in the sheet fit around the gripper bar screws. Tighten bar in place.

NOTE: Only the drawsheet should be clamped under the bar. Next jog up the undersheets, checking to see that the leading edges of all sheets are as far forward as possible. Then holding the packing in place with the left hand, move the cylinder until the packing is completely wrapped around it. To attach the drawsheet to the reel rod, make a parallel fold about 1/2 inch from the end and insert it through the slot in the rod. Rotate the rod with the fingers in a clockwise direction until the sheet is snugly in place and tighten with the open end wrench furnished.

\* Not all drawsheets are marked by the Tympan manufacturer, if not, check location of key hole slots to determine location of fold.

#### CARE AND ADJUSTMENT OF INKING SYSTEM

Your REPRESS\* Proof Press is furnished with two synthetic form rollers, a polished steel ink distributing drum. This equipment is shipped in place and in correct adjustment as all REPRESS\* Proof Presses are inked and tested before leaving the factory.

#### INKING THE PRESS - MANUAL INK DISTRIBUTION

With the ink knife dab a small amount of ink along the vibrating drum. Distribution is accomplished by turning the hand wheel on the front

roller. Further distribution is affected as the rollers pass over the form. Experience will quickly demonstrate the amount of ink necessary.

#### POWER INKING

Using the spatula dab a small amount of ink along the entire length of the distributing drum. Then return the carriage to the feeding position, lower the roller assembly and run motor for a few minutes until a satisfactory film of ink is uniformly distributed on the form rollers. The motor should be left running only as long as the press is in actual use. When not in use the ink system should be broken by throwing the lever on the cylinder carriage to the forward position. To ink the form prior to taking the first proof, proceed as follows: First BE SURE that the cylinder is tripped to prevent taking an impression on the Tympan. If the PRINT-TRIP lever is in PRINT position, move the carriage forward about 8 inches and place the lever in TRIP position. Next bring the manual trip lever (at the rear of the carriage) forward. The cylinder will not print until the PRINT-TRIP lever is returned to PRINT position.

#### AUTOMATIC WASHUP (Power inking only)

This is one of the outstanding features of the REPRESS\* and one which will be more and more appreciated as you use your proof press. With the motor running use a regular printers benzine can or an ordinary oil can to squirt a little wash up fluid over the form rollers and riders slowly adding more if necessary to soften and dilute the ink. With the lever under the bed of the press bring the rubber squeegee on the drain pan into contact with the distributing drum, as the diluted

ink is wiped off the drum, it, in turn, will remove ink from the rollers and idlers.

CAUTION: DO NOT use too much pressure on the squeegee. If necessary, until the blade gets broken in, a light wiping with a rag or paper towel will remove any remaining ink film. A folded rag or paper towels in the ink tray will help absorb the diluted ink and prevent splashing when removing the tray.

#### ADJUSTING THE FORM ROLLERS

On machines with .968" bearers, the galley thickness bed plate should be in place. Using the type high setting gauge, reach under the one end of the front form roller and observe the width of the ink streak left on the gauge block, if this is from 1/8" to 3/16" wide the setting is correct. If not, using the T-handled tool, furnished, adjust the two friction held screws in the bearing block until the roller setting is correct, next check the other end of the same roller and each of the others in like order.

#### ADJUSTING THE RIDER ROLLER

This is checked and adjusted before the press leaves the factory and should not require any further attention. However, if it does, proceed as follows: make sure that the synthetic form rollers are properly adjusted, then loosen the cap screw, holding the notched inside bearing plate to the upper frame and move it slightly until the rider rests evenly on the form rollers below. Tighten holding screws.

## LUBRICATION

All of the heavy duty bearings, including those of the cylinder and cylinder carriage, are of the permanently lubricated sealed type and should require no attention for the life of the press. Most of the remaining bearings are of the oilite self lubricating bronze or nylon. These will give better service if given a little light oil occasionally but their lubrication is not critical.

Oiling the following places with a light quality detergent motor oil about once a month will help prolong the life of your REPRES\* Proof Press.

- 1- Gripper shanks and linkage.
- 2- Gripper operating collar (on main shaft inside of cylinder) and push rods.
- 3- Moving parts in gripper and cylinder trip mechanism.
- 4- Cam shaft, cams and linkage in ink system lifting mechanism.
- 5- Nylon form roller and rider roller bearings.
- 6- Ink distributor drum shaft, chain, etc.

NOTE: The two holes on top of the cylinder carriage are not oil holes, These are for attachment of an acetate feeding device.

## CLEAN BED AND CYLINDER BEARERS AT LEAST ONCE A WEEK

Your REPRES\* Proof Press is fitted with two spring brass scrapers to clean the bed bearers at each use. Check these to make sure that they are in correct adjustment. It is very important to keep these surfaces clean. An accumulation of dirt on the bearers will seriously affect the accuracy of impression. Wipe underside of bed rails with solvent frequently and oil lightly.

### PRESSURE INK DISPENSER

This device is generally attached to the feed bed of the proof press. Two bolts are provided for this purpose. The REPRESS pressure ink dispenser is designed for use with a medium body proofing ink, such as FLINTS, INSTA PRINT HT BLACK 41369, or U. S. SPECIAL BLACK PROOFING INK. This attachment is designed to accommodate a standard 1 lb. ink can. Remove the cover and paper from the surface of the ink, next insert the neoprene disc on top of the ink. This disc is slightly larger than the inside of the can, to form a tight fitting piston with the feed screw at the highest position. Set the can in the depression provided in the base and bring the pressure plate down upon the rubber disc. Further pressure will force the ink up through the hollow screw onto the ink plate in quantities needed. It will be found that after the ink has risen in the screw, a very slight turn of the knurled knob will release a sufficient amount of ink.

Reversing the direction of the knob will withdraw the ink into the can. A magnetic holder is provided on the frame of the dispenser to hold a spatula.

### LUBRICATION

A little light oil on either face of the knurled feeding knob and on the screw occasionally is advised.

## INSTRUCTIONS FOR USING CROMWELL RESIL-PAK BLANKETS

This proof press blanket is .028" thick and is furnished in cut sizes to fit all REPRES\* proof presses. Its purpose is to provide a more resilient packing where printing heights vary.

The blanket should be installed directly under the drawsheet with the light colored side up. The press should be overpacked approximately .004" the exact amount may be determined through trial. Care should be exercised to prevent battering the blanket. If damage does occur soaking the bruise with a little kerosene on a rag will usually eliminate it.



### POSITIVE LOCK-UP BAR

This device is used to lock forms either in chases or tied, on the bed of the REPRES\* proof press. Two clamping motions are involved. The short lever nearest the operator is used to clamp the bar between the bearers of the press bed. The longer lever in the center of the bar operates the quoin bar. We have found it more practical to use two separate clamps than to combine both operations in one lever, a method which, in our experience, is unsatisfactory.

The REPRES\* lock-up bar permits considerably more movement of the quoin bar, than is possible where one cam is used to lock the bar and the form. To adjust the side lock-up bar to your press it may be necessary to tighten or loosen the two small cup point set screws at the extreme ends of the bar. It will be necessary to remove the two hollow head guide bolts, and remove the bar to do this.

Inside the side lock-up bar there is a resilient member consisting of a bar of oil resistance rubber covered by a steel plate upon which the cam impinges, the purpose of this is to provide a spring pressure between the cam and bed bearer of the press. This may be replaced if it becomes worn or loses its resilience after considerable use.

A drop of oil on the cams occasionally is recommended.

## Parts Numbers REPRES\* PROOF PRESSES

These part numbers apply to all sizes. In ordering be sure to state the size of the press for which the parts are required and the Serial Number.

### A - Bed Assembly - Complete

- A1 - Bed
- A2 - .968 Bearer
- A3 - .918 Bearer
- A4 - Rail-Cylinder Guide
- A5 - Rack - Cylinder Drive
- A6 - Shim - Rack - Cylinder Drive
- A7 - Rack - Roller Drive
- A8 - Shim - Rack - Roller Drive
- A9 - Bar - Dead
- A10- Bar - Locking
- A11- Pin - Lock Up
- A12- Plate - Galley Thickness

### B - Cabinet Assembly - Complete

- B1 - Leg - Rear
- B2 - Leg - Front
- B2 - Shelf - Lower
- B3 - Shelf - Upper
- B4 - Filler plate - Front
- B4a- Filler plate - Rear
- B5 - Channel - Foot - Front
- B6 - Channel - Foot - Rear
- B7 - Block - Bumper - Rear
- B8 - Block - Bumper - Front
- B9 - Channel - Frame Tie'
- B10- Name Plate - Mfg.
- B11- Name Plate - PRINT-TRIP
- B12- Lever - Print Trip
- B13- Shaft - Throw Off
- B14- Rod - Trip
- B15- Spring - Rod Trip
- B16- Collar
- B17- Block - Slide
- B18- Cam (crow foot)
- B19- Spring - Leaf
- B20- Bearing - Throw Off Shaft
- B21- Bearing - Gripper Actuator
- B22- Cam, Gripper
- B23- Latch, Cam
- B24- Spring

Parts Numbers REPRES\* PROOF PRESSES continued

B25- Bracket, Gripper Release  
B26- Crank, Gripper Release  
B27- Arm, Gripper Release  
B28- Rod, Gripper Release  
B29- Treadle, Gripper Release  
B30- Bracket, Cylinder Trip  
B31- Lever, Cylinder Trip  
B32- Bumper, Cylinder Trip Rear  
B33- Stud, Bumper  
B34- Bumper Cylinder Trip, Front  
B35- Cam, Gripper Release, Front  
B36- Rod, Cylinder Trip  
B37- Spring  
B38- Collar  
B39- Block, Slide  
B40- Spring  
B41- Stop  
B42- Lever, PRINT-TRIP  
B43- Knob, PRINT-TRIP Lever  
B44- Pin, Stop

C - Cylinder Assembly, Complete  
C1 - Ring Gear  
C2 - Stud, Drive  
C3 - Bearing (Sealmaster SL-23)  
C4 - Shaft  
C5 - Rod, Push  
C6 - Rod, Spring  
C7 - Spring  
C8 - Collar, Gripper operating  
C9 - Pin, Collar  
C10- Reel, Tympan  
C11- Pawl  
C12- Stud, Tympan Reel  
C13- Screw, Locking

D - Cylinder Carriage Assembly, Complete  
D1 - Frame - Side - Front  
D2 - Frame - Side - Rear  
D3 - Plate - Bearing - Front  
D4 - Plate - Bearing - Rear  
D5 - Bracket, Gripper Operating Arm  
D6 - Arm, Gripper Operating  
D7 - Bracket, Cam Roller  
D8 - Roller - Cam  
D9 - Gear, Cylinder Trip  
D10- Sector, Cylinder Trip  
D11- Trunnion - Sector

Parts Numbers REPRES\* PROOF PRESSES continued

D12- Collar - Sector  
D13- Arm - Cylinder Trip  
D14- Spring - Flat  
D15- Ball - Detent  
D16- Quadrent - Detent  
D17- Stud - Cam Roller  
D18- Crank - Operating  
D19- Handle - Crank  
D20- Stud - Handle - Crank  
D21- Shaft - Fork  
D22- Bush - Crank Shaft  
D23- Bearing  
D24- Rod - Tie - Roller  
D25- Rod - Tie - Scraper  
D26- Rod - Tie - Upper  
D27- Bearing - Cylinder Shaft  
D28- Block - Eccentric  
D29- Spring - Bumper  
D30- Shaft - Cam - Roller Lifting  
D31- Arm - Rear - Vibrator Support  
D32- Arm - Front - Vibrator Support  
D33- Plate - Adjustment - Front & Rear Arm  
D34- Link - Ink Roll  
D35- Bracket - Roller - Left  
D36- Bracket - Roller - Right  
D37- Bearing Plate - Form Roll  
D38- Screw - Roller Adjustment  
D39- Stud - Eccentric  
D40- Roller, Carriage, Lower  
D41- Roller, Carriage, Upper  
D42- Collar,- Cam Shaft  
D43- Handle, Cam Shaft Operating  
D44- Lever, Hand Throw-Off  
D45- Knob - Lever - Throw-Off  
D46- Band - Cylinder  
D47- Knob - Cylinder Band  
D48- Gear - Form Roller Drive  
D49- Stud, Eccentric - Roller Support  
D50- Screw - Bearing Adjusting  
D51- Stud - Cylinder Drive  
  
E - Gripper Bar Assembly - Complete  
E1 - Body  
E2 - Link  
E3 - Bar - Tie  
E4 - Gripper Pin Assembly - Complete

Parts Numbers REPRES\* PROOF PRESSES continued

E5 - Guide, Register  
E6 - Spring - Register Guide  
E7 - Knob  
E8 - Screw - Attaching

F - Automatic Inker Assembly - Complete  
F1 - Frame  
F2 - Arm - Travel  
F3 - Bearing - Thrust  
F4 - Cup - Bearing  
F5 - Sleeve - Ink Drum  
F6 - Shaft - Ink Drum  
F7 - End Plate - Front  
F8 - End Plate - Rear  
F9 - Bushing  
F10- Arm - Drive  
F11- Spring  
F12- Eyebolt  
F13- Motor  
F14- Bracket - Cam Follower  
F15- Shaft - Hinge  
F16- Lever - Wash-up  
F17- Shaft - Main  
F18- Sprocket - Main Drive  
F19- Sprocket - Motor  
F20- Chain  
F21- Bracket - Bearing  
F22- Bushing  
F23- Collar  
F24- Mitre Gear - Main Shaft  
F25- Mitre Gear - Cam Shaft  
F26- Shaft - Cam  
F27- Bearing - Cam Shaft  
F28- Bracket - Cam Shaft Support  
F29- Cam - Vibrating  
F30- Arm - Wash-Up Tray  
F31- Shaft - Cam - Wash-Up Tray  
F32- Cam - Wash-Up Tray  
F33- Guide - Wash-Up Tray  
F34- Tray - Wash-Up  
F35- Squeegee  
F36- Clamp - Squeegee  
F37- Cam - Follower  
F38- Pin - Cam Follower  
F39- Bracket C/Balance Spring  
F40- Spring C/Balance  
F41- Sprocket, idler  
F42- Snap Ring  
F43- Cam - Actuating

Parts Numbers REPRES\* PROOF PRESSES continued

F44 - Roller - Form, Synthetic  
F44a- Roller - Form - Extended Shaft  
F45 - Core - Form Roller  
F45a- Core - Form Roller - Long  
F46 - Roller - Rider  
F47 - Shaft - Rider Roller  
F48 - Ring - Snap  
F49 - Roller - Vibrator Complete Unit Only (Exchange arrangement)

G - Feed Board Assembly Complete  
G 1 - Feed Board  
G 2 - Bracket - Front  
G 3 - Bracket - Rear  
G 4 - Cover - Switch  
G 5 - Switch  
G 6 - Light - Pilot  
G 7 - Cord  
G 8 - Block - Paper Guide  
G 9 - Head - Paper Guide  
G10 - Spring - Paper Guide  
G11 - Knob - Paper Guide

# ROLLER ADJUSTMENT

