

# PARTS LIST AND INSTRUCTIONS

## NIAGARA

## AIR RELEASING BRAKE

Niagara Presses are equipped with an air releasing brake having full floating, self-aligning brake shoes together with a spring to apply pressure of the shoes against the brake drum, and an air cylinder to release the pressure.

Individual brake shoes float freely in the brake arms and, therefore, cannot cock or bind and wear unevenly. The spring and air cylinder are direct acting on one axis with no toggle joints or other complicated mechanisms.

The air cylinder has no piston rod packing. It is direct acting. The cylinder and cylinder head are integrated, requiring no gasketing.

### MAINTENANCE

To adjust the brake, shut off motor and wait for flywheel to stop. Turn selector switch to "CONTINUOUS" position and press "CONTINUOUS" button. When equipped with reversing starter, use jog button. This supplies air to the brake and releases it. Loosen the inner nut on the brake piston rod and tighten the outer adjusting nut so that it is just finger tight. Then loosen nut one or two flats and tighten up inner nut securely. Press "STOP" button and turn selector switch to the desired position.

The brake cylinder is equipped with petcock for draining off an accumulation of oil and water. With the motor shut off and the flywheel stopped, open the petcock and depress the "JOG" button with the selector switch set for "JOG". This will admit air into the brake and will blow the accumulated oil and water out through the petcock.

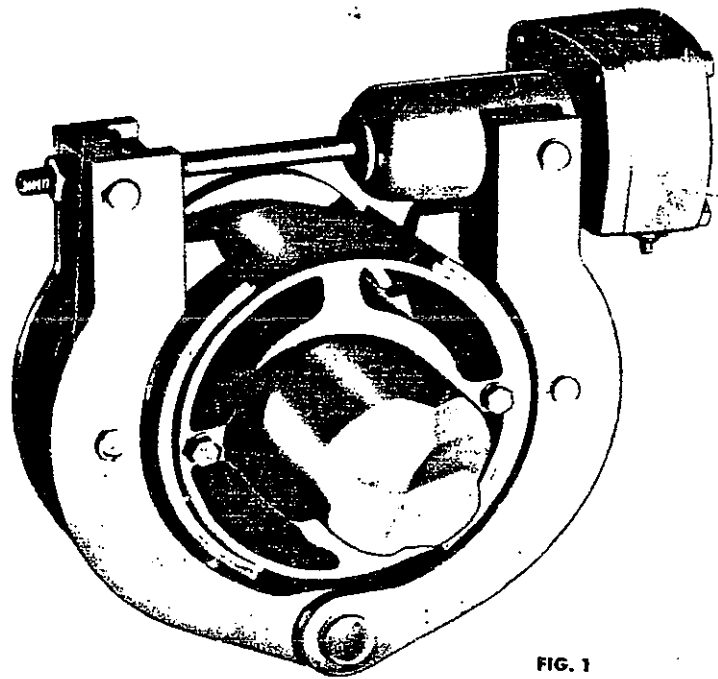


FIG. 1

Close the petcock before starting press. Repeat this procedure one or more times per week depending on the amount of accumulation present. Be sure that the petcock is shut off tightly and does not leak air. Leakage of air from the petcock may cause the brake to drag and result in unnecessary lining wear.

Leakage of air past the brake piston will also cause the brake to drag. Replace leaky piston packing promptly.

# PARTS LIST

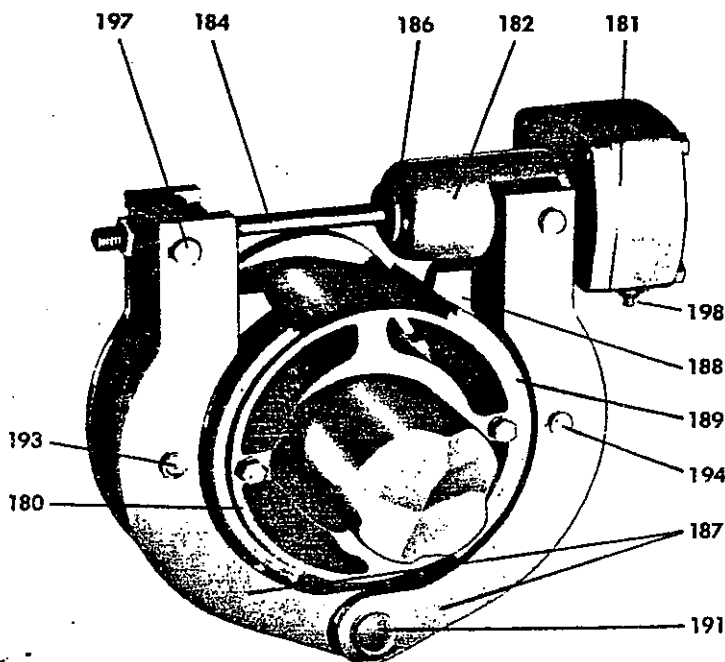


FIG. 2

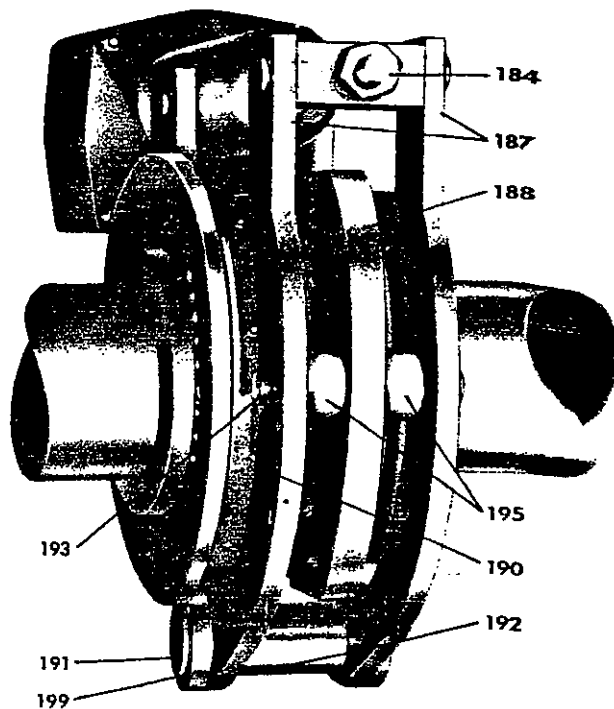


FIG. 3

- \*179. Brake Collar Snap Ring
- 180. Brake Collar
- 181. Brake Air Cylinder Head
- 182. Brake Spring Pot
- \*183. Brake Spring
- 184. Brake Piston
- \*185. Piston "U" Ring Packing
- 186. Non-Metallic Bushing
- 187. Brake Lever Arms
- 188. Brake Shoe
- 189. Brake Shoe Lining
- 190. Tubular Rivet For Brake
- 191. Brake Pivot
- 192. Pivot Spacer
- 193. Short Brake Shoe Pin
- 194. Long Brake Shoe Pin
- 195. Short Brake Shoe Spacer
- 196. Long Brake Shoe Spacer
- 197. Trunion
- 198. Cylinder Drain Petcock
- 199. Brake Pivot Pin Snap Rings

\* Not Shown

## NOTE:

Since numbers on this parts list are for reference only and may be duplicated on other parts lists, specify part required by giving reference number and full part name, followed by Form A-6-C.

## REPAIRS

When ordering repairs, always state the catalog number of the press and the factory serial number.

## NIAGARA MACHINE & TOOL WORKS

683 NORTHLAND AVE., BUFFALO 11, N. Y., U. S. A.

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