

NUMBERALL

STAMP & TOOL CO., INC.

USER MANUAL & PARTS LIST

MODEL

131

S/N:

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MODEL 131 HAND-OPERATED BENCH MARKING PRESS

Uncrating Procedure

1. The Model 131 is shipped bolted to a wooden skid. It is covered with a cardboard box that is stapled and banded to the wooden skid.
2. Cut the plastic shipping bands. Cut the cardboard box all the way around, within a couple of inches of the top of the wooden skid.
3. Lift off the cardboard cover, remove the protective plastic bag and unbolt the press.
4. The Model 131 weighs 125 pounds and should be lifted with caution.
5. Bolt the press securely to a solid bench to avoid accidental upset.
6. The Model 131 is capable of **forces exceeding 4 tons. KEEP BOTH HANDS FREE OF THE TABLE AREA WHEN OPERATING THE PRESS HANDLE.**
7. Any shipping damage to the press must be reported immediately to the common carrier and to Numberall.

Product Description

The Model 131 is a versatile and compact press, designed for stamping nameplates and small parts. The Model 131 is an ideal choice where bench space is restricted. It is intended for continuous, heavy-duty use.

Bench area is 11" x 16" x 14-1/2" high. The mounting base is 7-3/8" x 15-5/8" (outside dimensions). Throat depth is 6-1/2", maximum clearance between the ram and table is 3-3/4", and table vertical travel is 2-1/2". The optional adjustable table requires a bench area of 16" x 22-1/2" x 14-1/2" high.

An adjustable table is available as an option. It permits left, right, fore and aft movement of a clamped part. An automatic tripping attachment is another option available, which when using the Model 50 Numbering Machine, allows the Model 50 to advance to the next consecutive number.

Maximum Character Chart

For Models 131, 131A & 133 Presses

The Model 131 can easily exert a 4-ton force. The following chart depicts the maximum number of characters the Model 131 is capable of stamping during each impression, based on character size and type of material. The chart is conservative, so the recommendations can be exceeded in many cases. Variations in the hardness of a material will affect stamping results.

Character Size	Steel RC 30	Mild Steel	Soft Brass	Aluminum 1100 H26
1/4	3	5	7	12
3/16	4	7	11	16
5/32	6	8	17	36
1/8	9	12	25	48
3/32	10	13	30	63
1/16	12	20	48	96

Note: The above chart is based upon the maximum number of characters for a legible impression (.002”-.003” depth).

Function of Controls

1. OPERATING HANDLE (131-82) - The operating handle is located on the right side of the press. **CAUTION: When experimenting with the handle, KEEP HANDS CLEAR OF TABLE.** The handle should be cycled completely from upper to lower stops. The handle should not be allowed to snap back, but rather returned gently.
2. CAMSHAFT STOP ARM STOPS (131-80) - These eccentric stops located on the right inside of the frame-casting, limit the handle travel. By loosening the allen head cap screws, the steel eccentrics can be rotated changing the effective stop location. Tighten the cap screws after adjustment. These stops are pre-adjusted at the factory and normally do not need further adjustment.
3. TABLE ELEVATION NUT (131-98) - This knurled nut, located in the front near the base of the frame casting, adjusts the height of the table. Turning the

nut counter-clockwise lowers the table. Turning the nut clockwise raises the table. The table has a vertical adjustment of 2”.

4. TABLE INSERT CLAMP (131-17) - This clamp located on the left hand side of the table, secures the table insert. After loosening the brass screw, the insert can be moved fore and aft. Engraved markings on the left hand edge of the insert are provided for reference purposes. Each increment is 1/16”.
An arrow index is stamped on the left hand guide rail.
5. TABLE LOCKING ASSEMBLY (131-24) - The table locking assembly located beneath the table in the front center, secures the table. After loosening the wing nut, the table may be moved left or right. Tighten the wing nut after adjustment.
6. MARKING DEVICE CLAMPING SCREW (131-92) - The brass screw located on the right hand side of the dovetail ram (131-90), secures the marking device. The dovetail and clamping screw only serve to hold the marking device in position. The press force bears on the ram head bottom.
7. DOVETAIL RAM GIB (131-94) - This gib located between the dovetail ram (131-90) and the frame casting (131-142) eliminates play in the ram head. If the ram head develops left and right play, it will be necessary to tighten the gib. While holding the two allen head setscrews (131-96) stationary, loosen the locking nut on each. Evenly tighten the two setscrews until left and right play is eliminated. Do not over tighten. While holding the two allen head set screws stationary, retighten the locking nuts. This adjustment may be required after initial break-in.

Adjustments for Stamping

1. Lower the table, by rotating the elevation nut counter-clockwise, until the marking device can easily be inserted in the dovetail ram.
2. Place the material to be stamped or trial sample in the nameplate clamp or fixture.
3. Grab the handle and slowly lower it watching the surface of the material to be stamped. **CAUTION: KEEP BOTH HANDS CLEAR OF THE TABLE AREA.** If the marking device begins to touch the surface, lower the table further, until the handle reaches the lower stop and the marking device does not touch the material.
4. With the handle held on the lower stop, raise the table until it touches the marking device.
5. Raise the handle gently. Raise the table very slightly (1/16 of a turn at a time). Lower the handle all the way to the lower stop and raise it gently. Check the

impression. If not deep enough keep rotating the elevation nut and checking the impression until a satisfactory stamp is achieved. Make sure the handle reaches the lower stop each time. This the only way to accurately control the depth of impression.

6. Once adjusted the Model 131 is ready for stamping. Minor adjustments may be required due to variations in the thickness of the part.

Lubrication

1. Oil holes are provided in the following places:
 - a. On the top of the ram head (131-90)
 - b. On the rocker arm (131-40): above the rocker arm shaft (131-62) and above the clevis shaft (131-190)

Use a few drops of light oil in these places if the surface appears dry. Oil daily if the press is in continuous service.
2. An oil cup (131-234) is attached to the brass rod end bearing (131-230) inside the press. Keep the oil cup half-full with light machine oil.
3. On the table insert guides and the table dovetail guide, use graphite as a lubricant. Oil should not be used, as it may accumulate dirt and bind the parts.
4. Place a few drops of oil on the table elevation nut if it appears dry. Oil weekly if the press is in continuous service.
5. Place a few drops of oil on the ram head dovetail slides if the surfaces appear dry. Oil weekly if the press is in continuous service.

INSTALLATION OF OPTIONAL TRIPPING ATTACHMENT

The following instructions apply to any of Numberall's bench presses: Models 131, 131A, 133, 136, 136A, and 137.

1. The tripping attachment is shipped assembled but will need adjustment. All mounting holes in the press have been pre-drilled. The hand clearances inside the casting are very tight and some patience is required. **CAUTION: WHEN WORKING WITH THE CASTING, MAKE SURE ALL POWER SOURCES HAVE BEEN DISCONNECTED.** The tripping attachment is easily installed if the press is lying on its side.
2. The linkage will attach to the press with the turnbuckle assembly (*-116) toward the rear. It is located on the right hand side of the frame casting, bolting to the rocker arm and frame casting.
3. Loosen the two jam nuts on the turnbuckle assembly. One is a left hand thread and one is a right hand thread.
4. Insert the 1/4" cap screw through the lower ball end and thread it into the 1/4" hole in the right rear inside of the frame casting.
5. Insert the shoulder screw (*-114) through the tripping arm from the right. Slide the spacer over the shoulder screw. Start the shoulder screw into the threaded hold near the back of the rocker arm. Tighten the shoulder screw.
6. Adjust the rear turnbuckle assembly by rotating the center rod until 3/4" of clearance exists between the tripping arm and the top of the dovetail ram. Tighten both turnbuckle jam nuts while holding the turnbuckle rod stationary.
7. Tighten the free motion connecting link assembly into the Model 50 Automatic Numbering Machine. Tighten the jam nut so that the ball end is aligned vertically.
8. Start the free-motion rod into the free-motion connecting link.
9. By rotating the actuating arms away from the numbering machine, it will be possible to simultaneously feed the free motion rod into the free motion linkage and slide the numbering machine into the dovetail ram. Tighten the marking device clamping screw.
10. After the press has been properly adjusted for the impression depth, cycle the press. If the numbering machine is not advancing properly, it will be necessary to screw the free motion rod either in or out of the upper ball end. Loosen the jam nut first. Adjust the rod until the numbering machine clicks into its advance position. Make sure the press makes a full cycle. If it does

not, then the adjustment to the tripping attachment will not be correct. Tighten the jam nut.

11. The tripping attachment is now ready for use. Do not operate a press with the tripping attachment, unless it is connected to an automatic numbering machine or the free motion rod and ball end have been removed, otherwise damage to the tripping attachment may occur.

* Denotes the model number of the press for which you are installing the attachment.

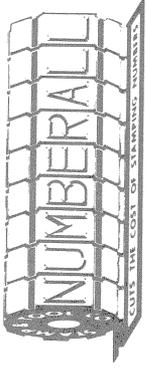
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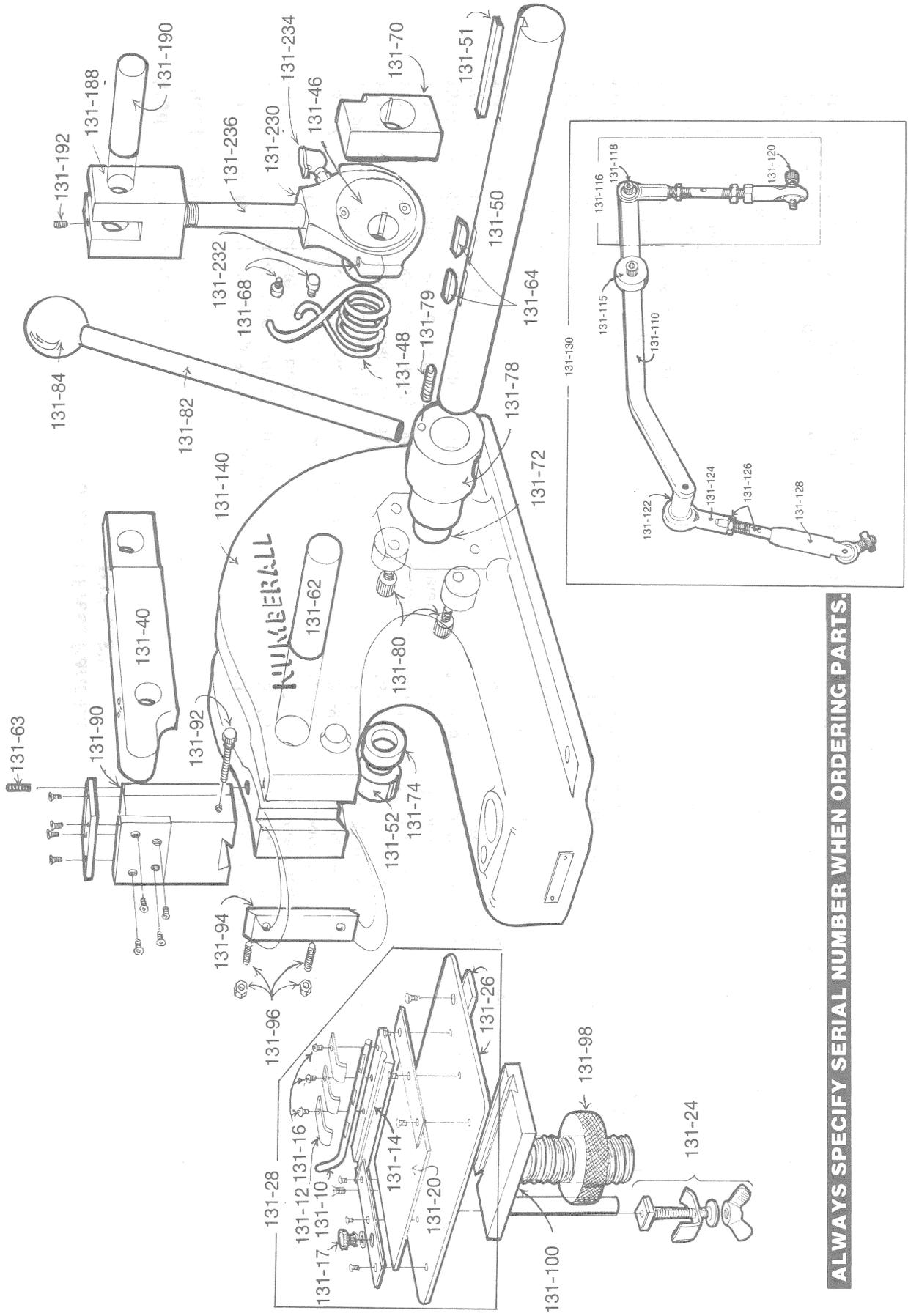
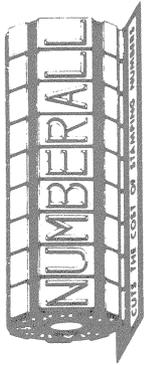
131-10	—	Nameplate Clamp Release Lever	131-82	—	Operating Handle
131-12	—	Nameplate Clip Springs (3 req'd)	131-84	—	Operating Handle Knob
131-14	—	Nameplate Clamp Base	131-90	—	Dovetail Ram
131-16	—	Nameplate Clamp Screws (3 req'd)	131-92	—	Marking Device Clamping Screw
131-17	—	Table Clamp Thumb Screw & Washer	131-94	—	Dovetail Ram Gib
131-20	—	Table Insert (Standard)	131-96	—	Gib Screws & Nuts (2 sets-2 pcs. p. set req'd)
131-22	—	Table Insert **Heat Treated**	131-98	—	Elevation Nut
131-24	—	Table Locking Assembly (Washer/Wing Nut/Clamp)	131-100	—	Cast Table Assembly
131-26	—	Comp. Table Base Incl'g Guide Rails & Dovetail	131-110	—	Tripping Arm
131-28	—	Entire Table Assembly (131-10 through 131-26)	131-115	—	Shoulder Screw & Spacer
131-40	—	Rocker Arm	131-116	—	Turnbuckle Assembly
131-46	—	Cam	131-118	—	Upper Turnbuckle Screw
131-48	—	Cam Return Spring	131-120	—	Lower Turnbuckle Cap Screw
131-50	—	Camshaft	131-122	—	Spacer Bushing and Screw
131-51	—	Camshaft Key	131-124	—	Rod End
131-52	—	Camshaft Collar	131-126	—	Free Motion Rod and Nut
131-62	—	Rocker Arm Shaft	131-128	—	Free Motion Connecting Link Assembly
131-63	—	Rocker Arm Shaft Set Screw	131-130	—	Complete Tripping Attachment (136-110/128)
131-64	—	Woodruff Key (2 req'd)	131-140	—	Frame Casting
131-68	—	Spring Screw (2 req'd)	131-188	—	Rocker Arm Steel Clevis with Set Screw
131-70	—	Camshaft Stop Arm	131-190	—	Clevis Shaft
131-72	—	Camshaft Bearing	131-192	—	Clevis Shaft Set Screw
131-74	—	Camshaft Bearing	131-230	—	Brass Rod End Bearing with Screws and Oil Cup
131-78	—	Operating Handle Attachment Bushing	131-232	—	Brass Rod End Bearing Screws (2 req'd)
131-79	—	Operating Handle Set Screw	131-234	—	Brass Rod End Bearing Oil Cup
131-80	—	Camshaft Stop Arm Stops/Screws (1 set req'd) (Front Stop 3/4" dia., Rear Stop 5/8" dia.)	131-236	—	Connecting Rod

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ALWAYS SPECIFY SERIAL NUMBER WHEN ORDERING PARTS.

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