

Johnson Sickle Servicer -- Operating Instructions

Before using Sickle Servicer, lubricate all joints with light oil.

I. REMOVE SECTIONS

Adjust for either flush-back or extended-back sections by following instructions under "A" or "B" below, and corresponding Drawings "A" or "B" on parts diagram. Numbers in parentheses refer to item numbers on parts diagram.

A - FLUSH-BACK SECTIONS

Lay knife bar in front of anvil (3). Adjust anvil with screw (5) so handle rests at approximately 45 degrees when shearing lip of push-off plate (1) contacts sections and lock with nut (4). Adjust push-off plate (1) by holding its guide surface firmly down against top of section when shearing lip (1/16") is in contact with edge of section. Secure this adjustment with cap screws (2).

B - EXTENDED-BACK SECTIONS

Same as "A" above except opposite edge (3/16") of push-off plate should be used. See Drawing "B" on parts diagram.

After making either of the above adjustments, raise handle and place knife bar in front of anvil (3) with section centered on top of anvil (3) and push handle all the way down. If both rivets do not shear off completely, raise handle and tighten screw (5) until both rivets will shear off just before the end of the handle stroke. If rivets shear off when handle is quite high, loosen screw (5) in order to gain better leverage and easier operation.

II. PUNCH OUT SHEARED RIVETS FROM KNIFE BAR

Locate head of SHEARED rivet in die hole under rivet punch (7) and push handle down. DO NOT ATTEMPT to remove sections by punching out rivets before shearing the section off.

III. RIVET NEW SECTION ON KNIFE BAR (either of the following methods (A) or (B) can be used)

NOTE: Riveting cup in lower die block (8) should be directly under cup of upper rivet set (6). If adjustment is necessary, loosen cap screws (2) and relocate.

(A) Place new section on top of knife bar, pointing section away from rivet punch (as shown in main parts diagram). Insert both rivets through section and bar from the top. Hold bar and section with left hand and place the head of right hand rivet in cup of upper rivet set (6). Push handle all the way down to form rivet head on under side of knife bar. Repeat for second rivet.

(B) Attach the section to under side of knife bar, and enter rivets from the bottom. Hold bar and section with left hand and place head of right hand rivet in the cup of lower die block (8). Push handle all the way down to form rivet head on top of knife bar. Repeat for second rivet.

IMPORTANT :

The upper rivet set (6*) should, when necessary, be adjusted with spacer washers so that a full rivet head will be formed only when handle is ALL THE WAY DOWN. Too many spacer washers will cause excessive pressure and distort the knife bar. Also, since various makes of knife bars are of different thicknesses, it is important to use rivets which are ONLY LONG ENOUGH to make a well rounded head and not flange or cause distortion.

* When riveting with countersunk rivets, use item no. 6 Upper Rivet Set for Flat Head Rivets p/n 52018, and if both ends of the rivet are counter-sunk, flip lower die block (8) up-side down so the smooth side is up.