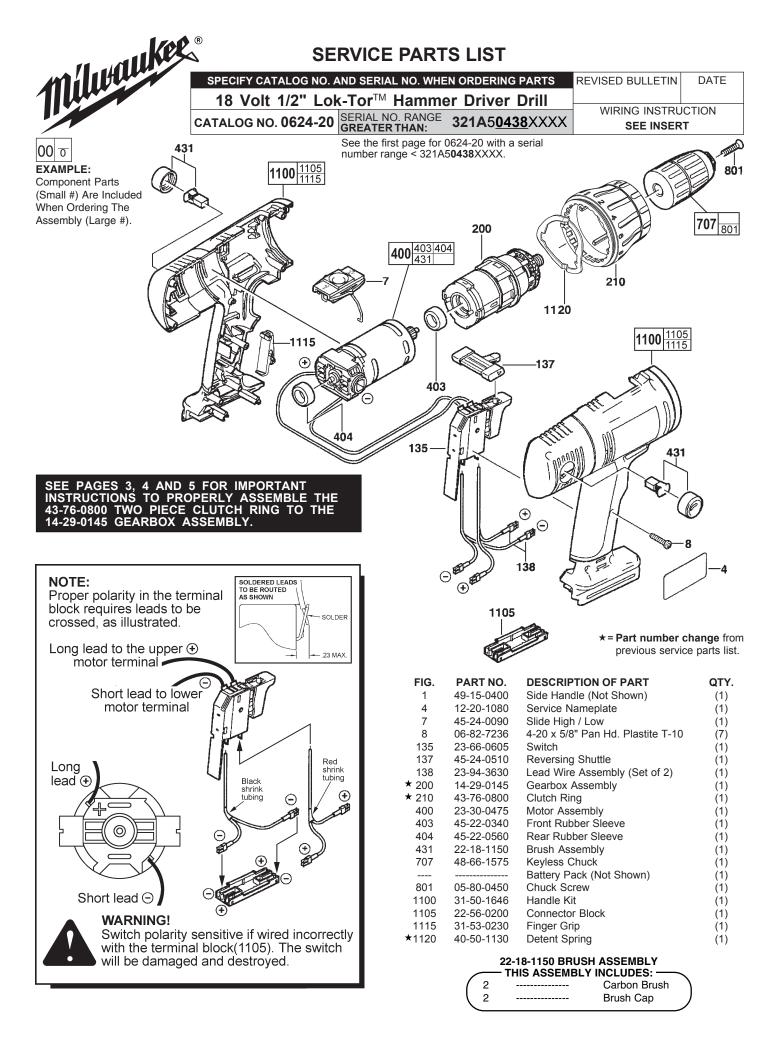


13135 W. Lisbon Road, Brookfield, WI 53005 Drvg. 7



SETTING THE CLUTCH RETAINING COLLAR

 NOTE: Triangle ▲ of rear gearbox assembly housing is aligned with square ■ located on front housing.

Begin assembly by aligning the retaining collar triangle \blacktriangle with front housing square \blacksquare and rear gearbox triangle \blacktriangle at the 12 o'clock \bigcirc position.

- Turn retaining collar clockwise until clutch spring is fully collapsed. Retaining collar triangle ▲ should be at approximately the 12 o'clock ^① position to the front housing square ■ and the rear gearbox triangle ▲.
- If the front retaining collar triangle ▲ stops at approximately the 5 o'clock ^① position, the retaining collar will have been installed 180° off. This requires unthreading and rethreading of the collar. Initial position of collar for proper threading is with triangles ▲ aligned.
- When fully compressed, <u>make sure</u> the retaining collar triangle ▲ is <u>in line</u> with the front housing square ■ and rear gearbox triangle ▲.

Clutch collar triangles \blacktriangle on a few gearboxes may be slightly to the left of the center 12 o'clock position when tightened, as shown below.

CHECKING / SETTING THE HAMMER SHIFT COLLAR

The following must be in place:

- Clutch collar triangle ▲ (tight) in-line, slightly to the left of gearbox 12 o'clock ^① position. (Set in step 1).
- Washer [A] visible above hammer shift collar, (fig. 2).
- Hammer Shift Collar [B] notch [1] with the .160 wide notch in-line or slightly left of gearbox 12 o'clock position (fig. 1).
- If hammer Shift Collar [B] is out of position, it will look like example shown in (fig. 3).

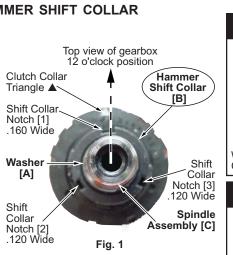
Rotate shift collar left or right by hand until it drops into position shown in (fig. 2). The washer must be visible, and the .160 wide shift collar notch [1] must be in-line or slightly left of top 12 o'clock position, as viewed from the front of the gearbox.

LOCATING RAISED GEARBOX NOTCHES FOR CLUTCH RING SPRING ASSEMBLY

Locate clutch ring spring notches by first identifying...

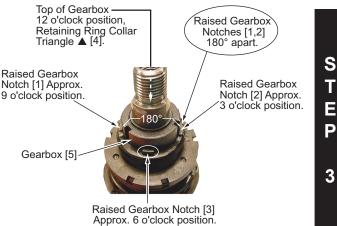
- The triangle ▲ on top of retaining collar [4].
- Raised gearbox notch [1] located at approx. 9 o'clock position.
- Raised gearbox notch [2] located at approx. 3 o'clock position. (Notch [1] and [2] located 180° apart on gearbox [5], as viewed from front of gearbox).
- Raised gearbox notch [3]. (<u>Will not</u> contact clutch ring spring).

Proceed to STEP 4.

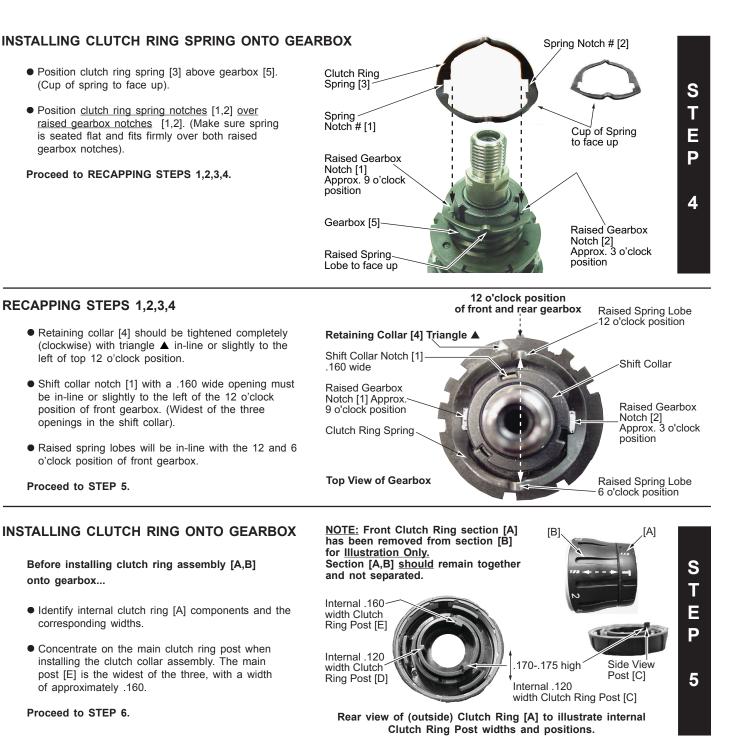








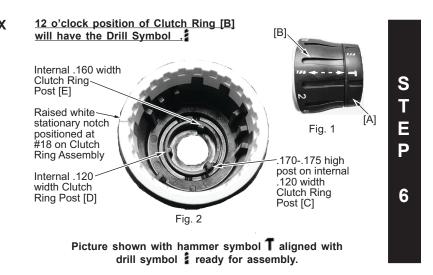
(Notch position [3] provides a stop for the .170-.175 long clutch ring post).



INSTALLING CLUTCH RING ONTO GEARBOX

- Align two piece clutch assembly [A,B], as shown in fig. 1.
- Turn clutch ring assembly to position shown in fig. 2 to view internal clutch ring posts [C,D,E] for correct position prior to assembling clutch ring to gearbox.

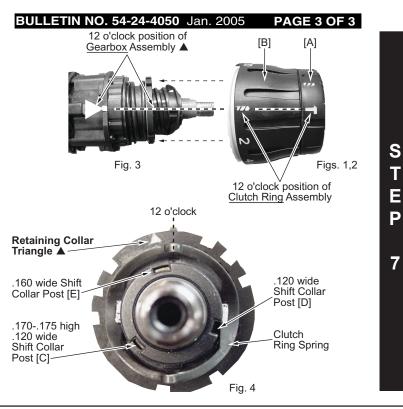
Proceed to STEP 7.



INSTALLING CLUTCH RING ONTO GEARBOX

- Hold gearbox assembly, fig. 3 in one hand with the 12 o'clock position facing up.
- Install <u>clutch ring assembly</u>, figs. 1,2 over <u>gearbox assembly</u>, fig. 3 in direction of arrows.
- Make sure drill symbol and hammer symbol **T** stay in-line with the top 12 o'clock position of the gearbox when installing clutch ring.
- Failure to hold <u>clutch ring</u> symbols together, as shown in figs. 1,2, when installing <u>clutch ring</u> <u>assembly</u>, will result in a misalignment of the internal clutch ring post, shown / illustrated in step 5.

Proceed to STEP 8.

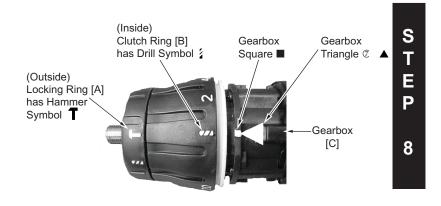


TOP VIEW OF GEARBOX WITH CLUTCH RING INSTALLED

 Triangle ▲ and square ■ located on gearbox
[C], should be in-line with drill symbol and hammer symbol ■ on clutch ring assembly [A,B].

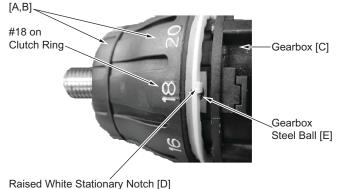
Proceed to STEP 9.

Gearbox square \blacksquare and triangle \blacktriangle are highlighted for reference only.



RIGHT SIDE OF GEARBOX WITH CLUTCH RING INSTALLED (As viewed from the front of the gearbox)

• Clutch ring [A,B], when properly installed, will have the number 18 and raised white stationary notch [D] (as viewed from the front of the gearbox) on the right side of gearbox [C] in-line with gearbox steel ball [E].



molded into Clutch Ring, at position #18 on Clutch Ring S T E P

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