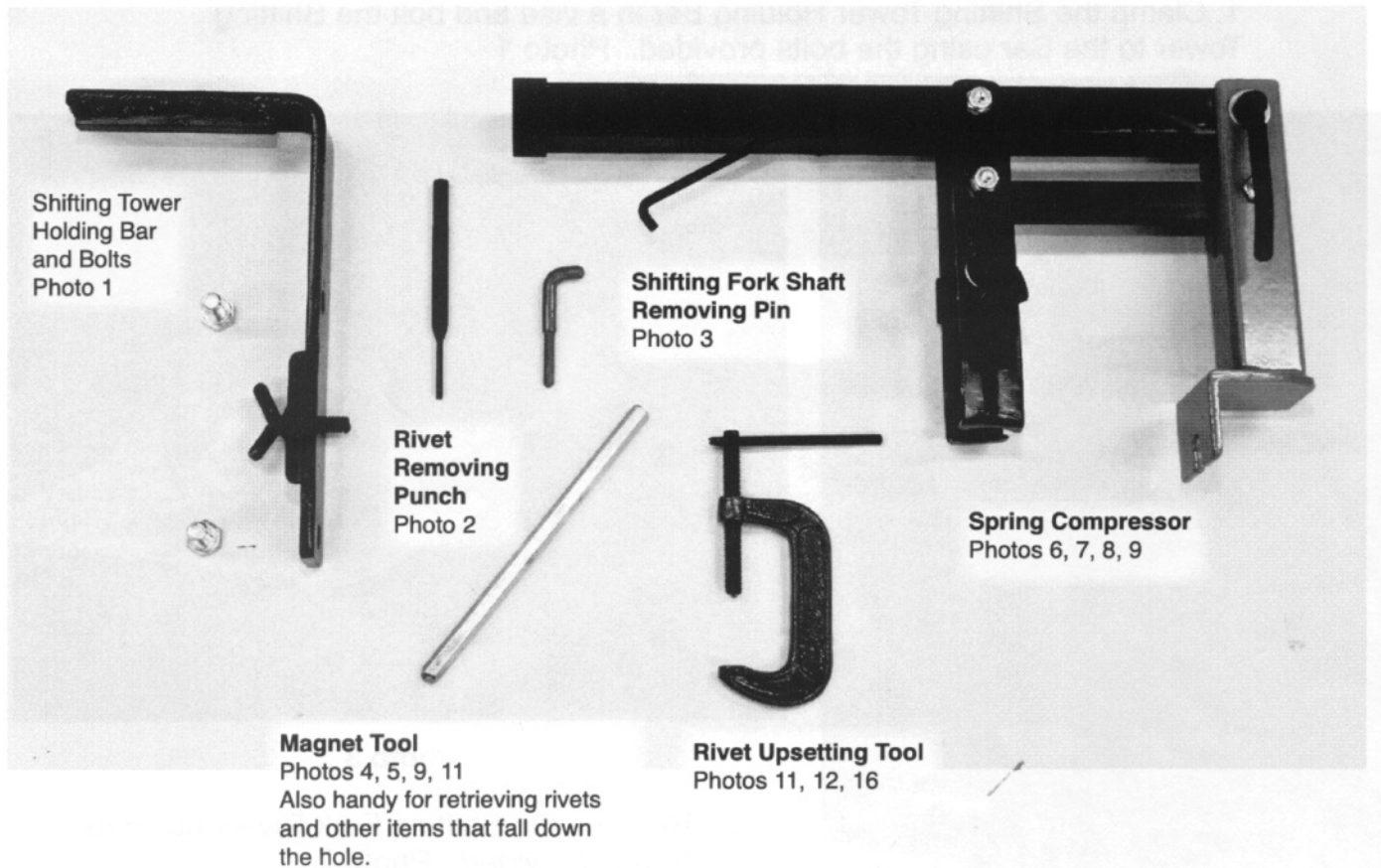


MODEL "A"

TRANSMISSION SHIFTING TOWER TOOLS

INSTRUCTIONS

When used properly, this set of tools provides a safe and easy method of disassembly and assembly of the Model "A" transmission shifting tower components.



Disassembly

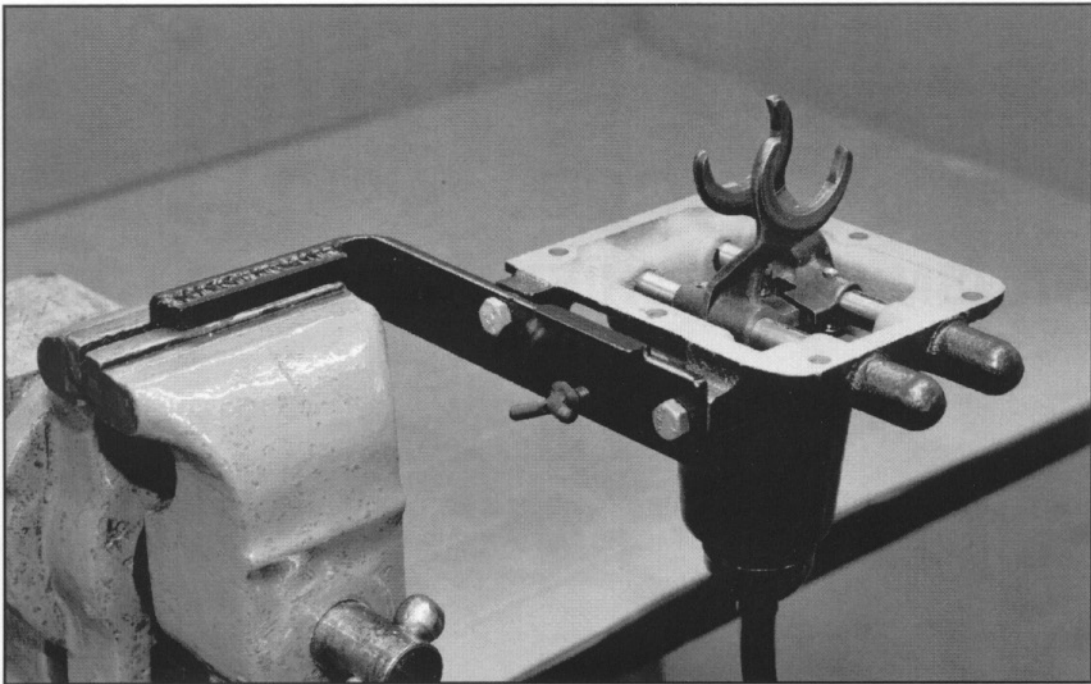


Photo 1

1. Clamp the Shifting Tower Holding Bar in a vise and bolt the Shifting Tower to the Bar using the bolts provided. Photo 1

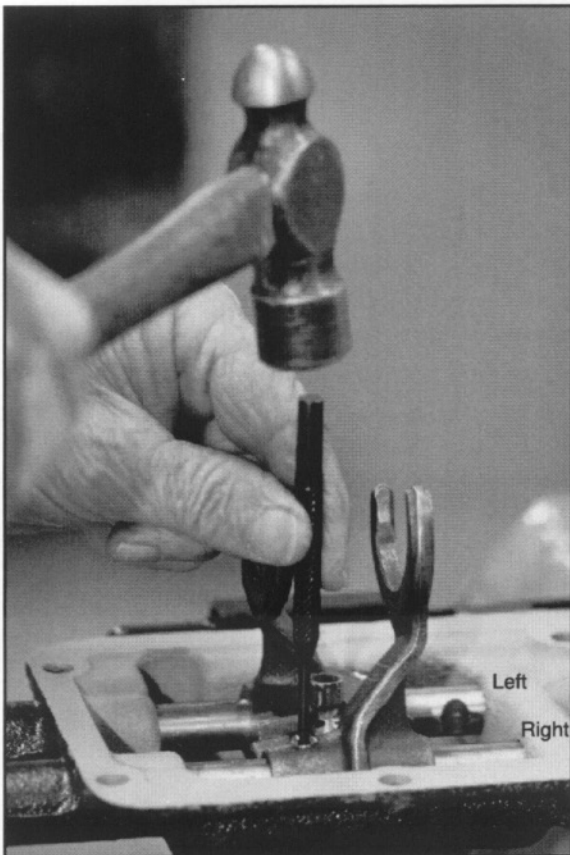


Photo 2

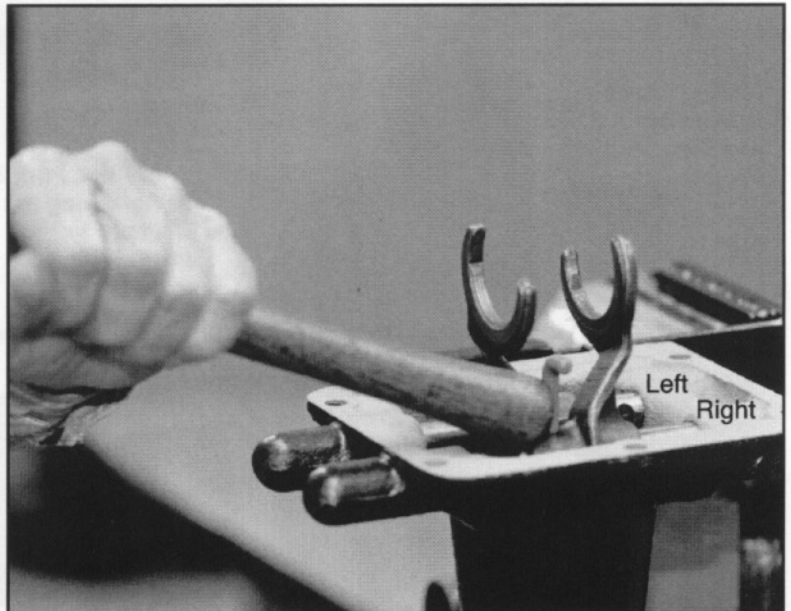


Photo 3

2. Remove the Shifting Fork Rivets using the Punch provided. Photo 2
3. Drive the Right shaft out of the Tower using the hardened Shaft Removing Pin. Photo 3

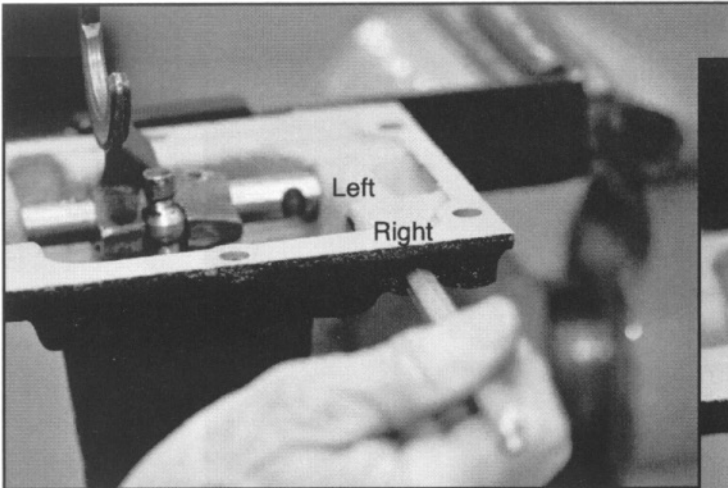


Photo 4

4. Remove the slotted Plug. Remove the Detent Plungers and Spring using the Magnet Tool. Photos 4 & 5.

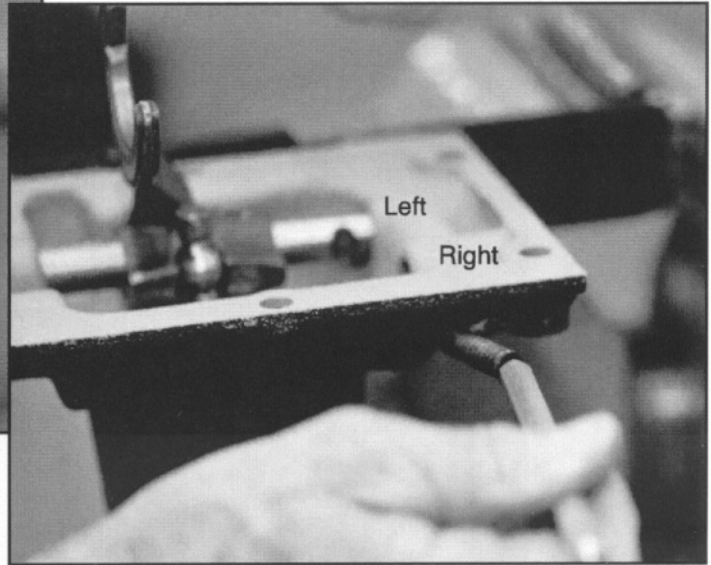


Photo 5

The Left shaft will then slide out of the Tower.



Photo 6

5. Mount the Spring Compressor on to the Holding Bar. Photo 6

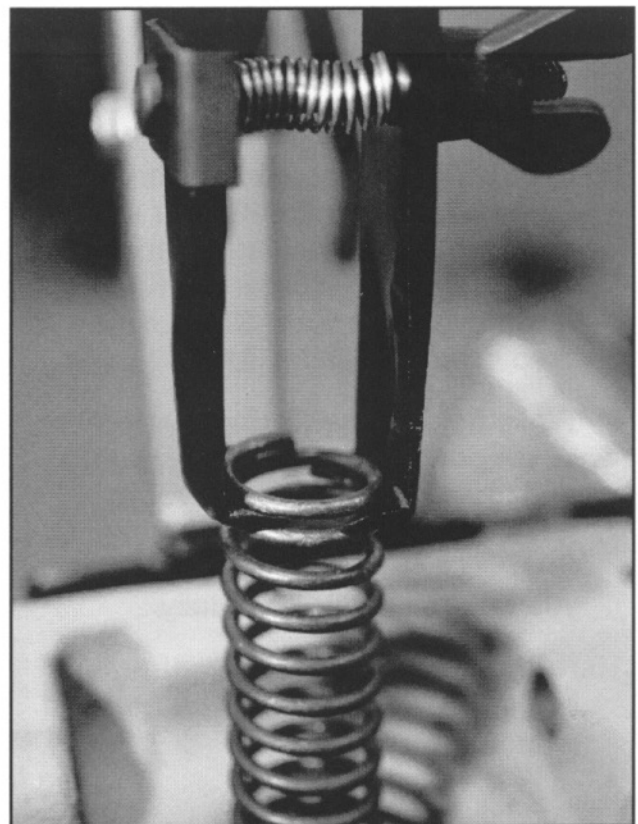


Photo 7

6. Engage the Spring Compressor jaws between the top and second coils of the Spring and clamp snugly. See Photo 7 for Clarity.

7. Then compress the spring as shown in Photo 8.

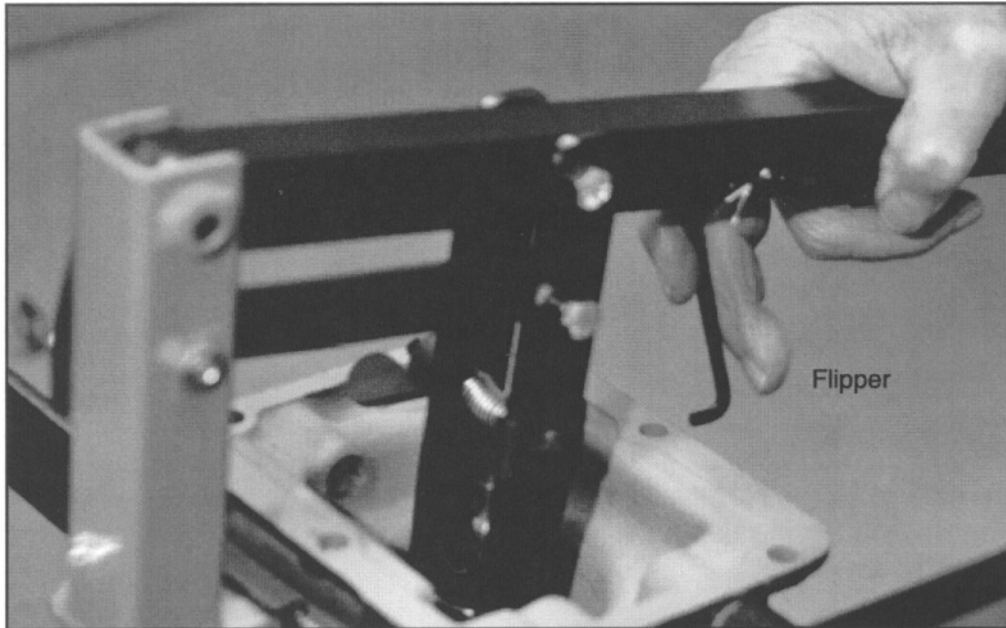


Photo 8

8. When the Spring is compressed, engage the Flipper. Before removing the Spring Keeper, lift the Gear Shift Lever up so the Keeper can be removed using the Magnet Tool as shown in Photo 9. After the Keeper is removed, the Gear Shift Lever will drop down out of the Tower.

9. While holding the Spring Compressor Lever down, release the Flipper and gradually raise the Lever to release the tension in the spring. **BE CAREFUL!** The Lever will fly up if you do not let it up gradually.

10. Remove the Shifting Tower from the holding bar so it can be cleaned and painted.

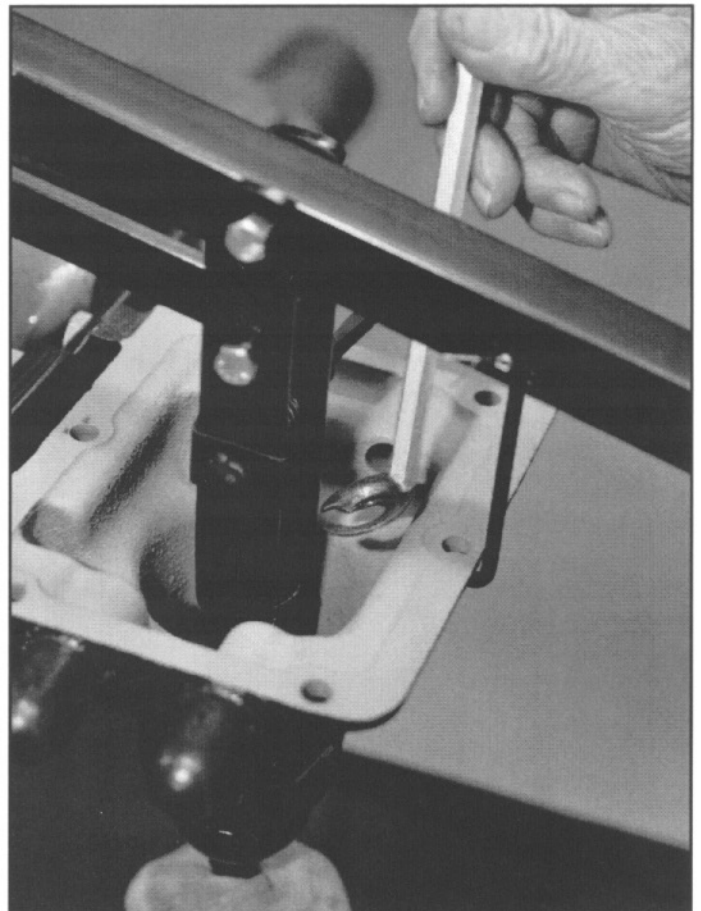


Photo 9

Assembly

1. With the cleaned and painted Shifting Tower bolted back onto the Holding Bar and the Spring Compressor still mounted in place, drop the Large Spring down into the Tower and engage the Compressor Jaws between the top & second coils as shown in Photo 7.
2. Thread the New or Rebuilt Gear Shift Lever up inside the Spring and hold it up while compressing the Spring. When the Spring is compressed, engage the Flipper and install the Keeper as shown in Photo 9. Then release the Gear Shift Lever and let it slide down into place. Then release the jaws from the Spring and remove the Spring Compressor from the Holding Bar.
3. Slide the Left Fork Shaft (wide spaced detents) and one of the two identical forks into the Tower. Thread a Rivet up through the Fork and Shaft Assembly as shown in Photo 10.

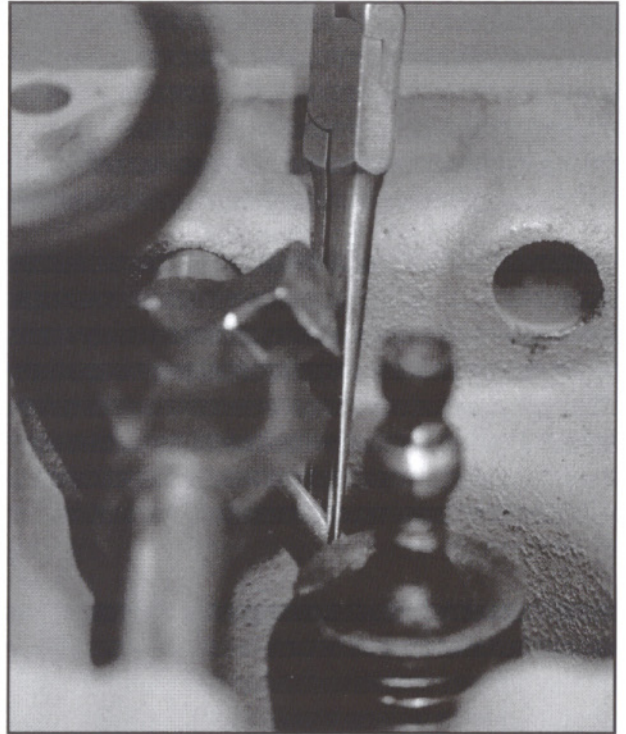


Photo 10

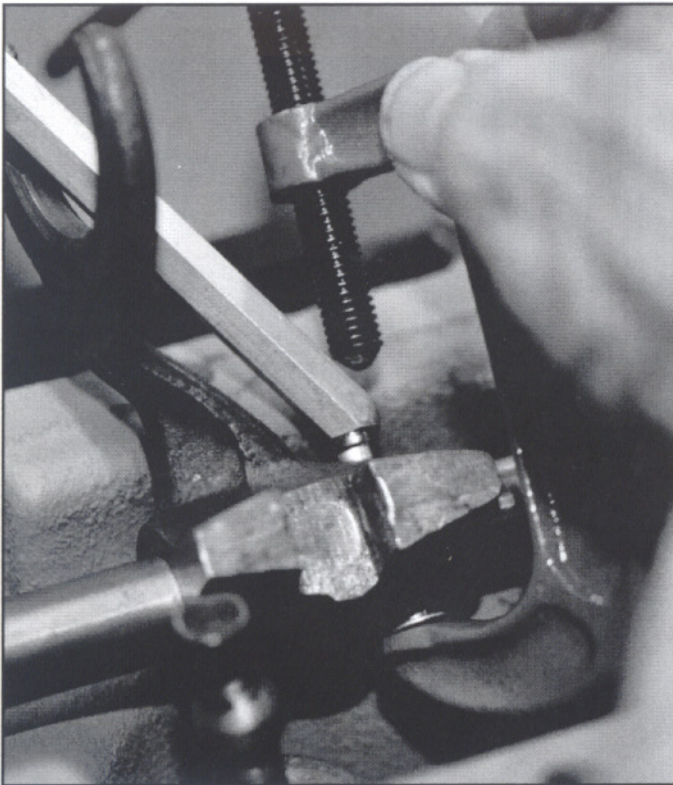


Photo 11

Use the Magnet Tool to hold the Rivet up in place while positioning the Rivet Upsetting Tool in place as shown in Photo 11.

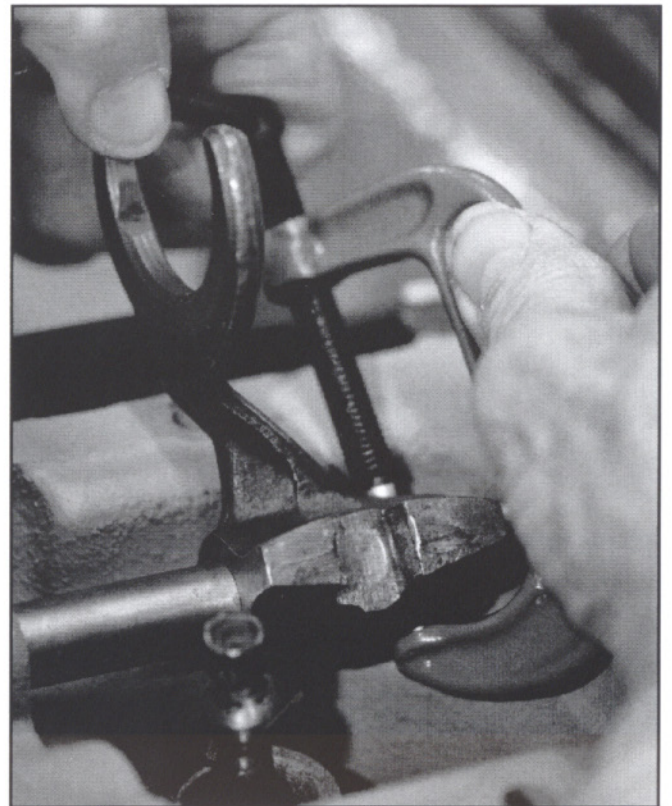
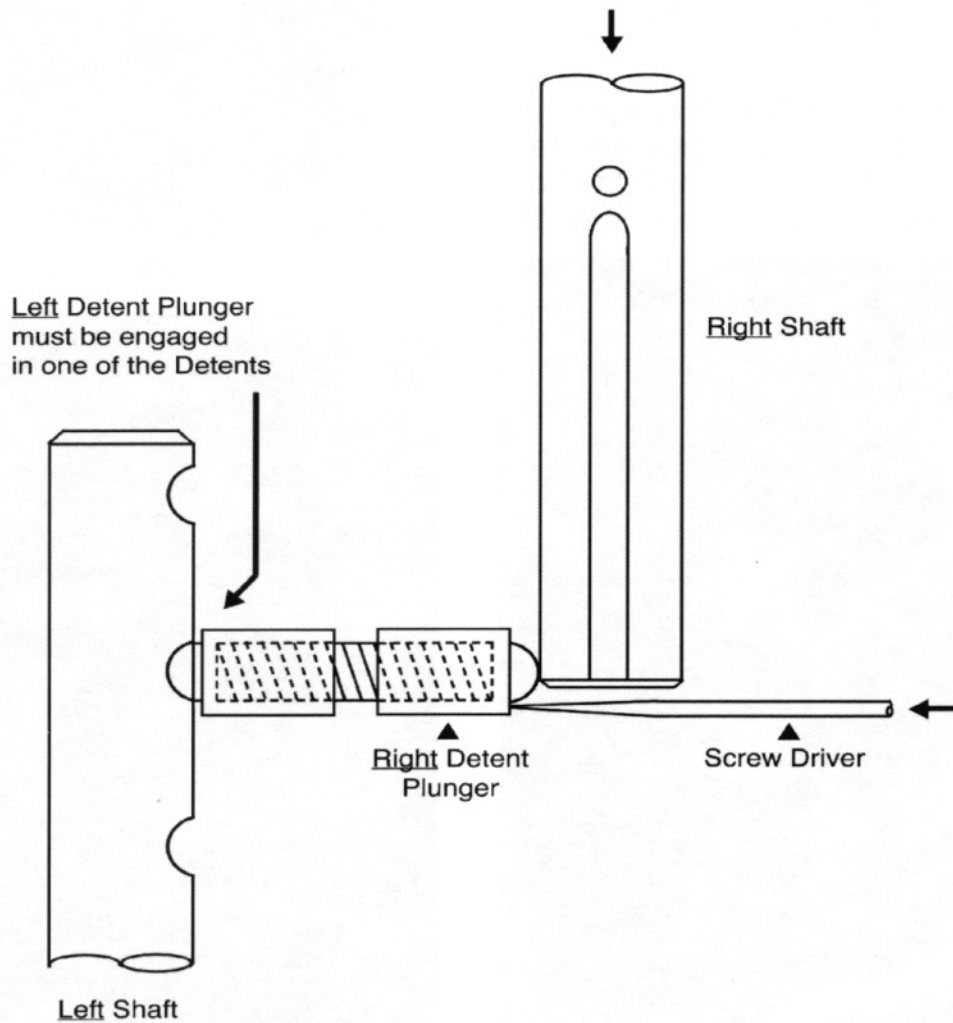


Photo 12

Upset the Left Rivet as shown in Photo 12.

4. Install the Spring and Detent Plungers. Start sliding the Right shaft (narrow spaced detents) in to the tower. An easy way to get the shaft beyond the spring loaded Detent Plunger is to push the Plunger in with a very slim straight screw driver while sliding the shaft in over the Detent Plunger Ball End as show in the drawing.



Remove the screw driver and continue sliding the Right shaft into the Tower and thread the other Fork onto the shaft as shown in Photo 13. The slotted plug can now be reinstalled.

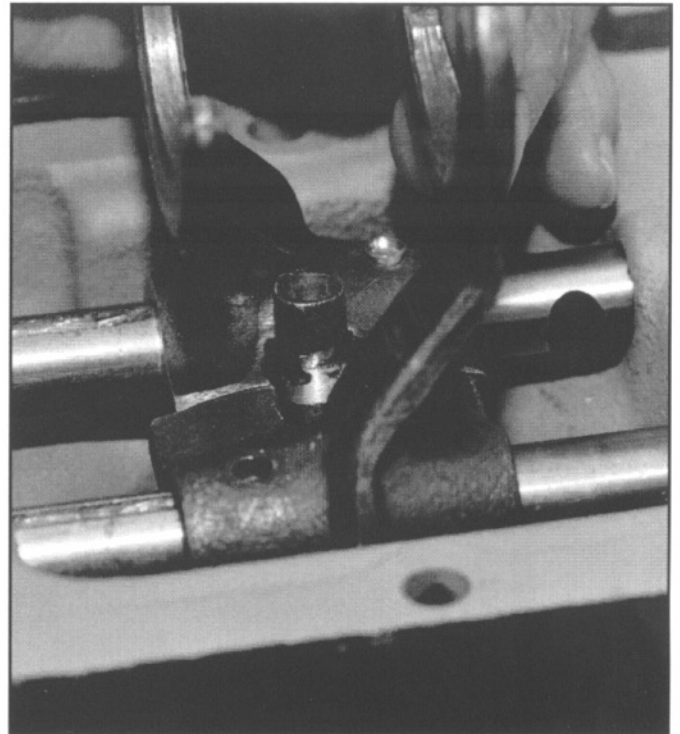


Photo 13

5. Thread the Right Rivet up through the Right Fork and Shaft Assembly. Photos 14 and 15.

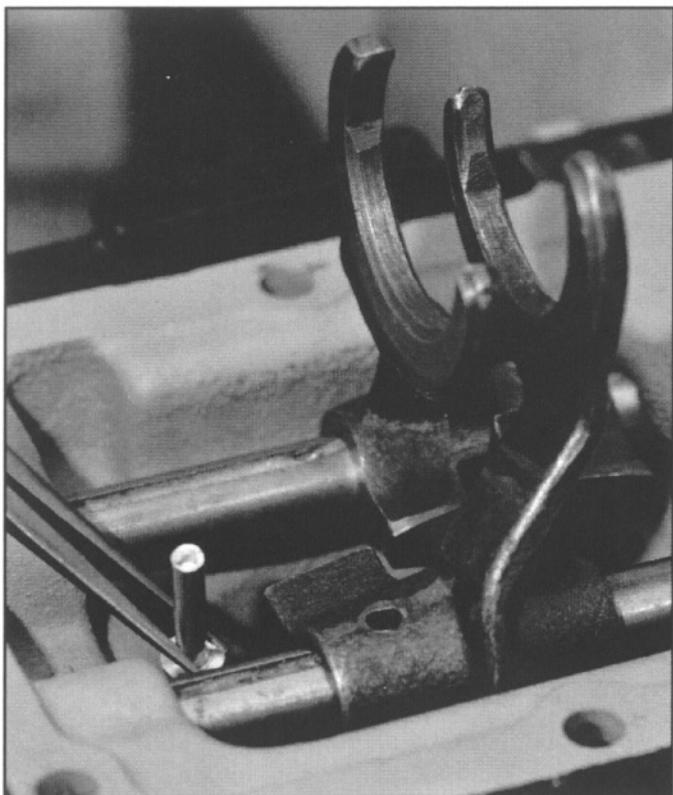


Photo 14

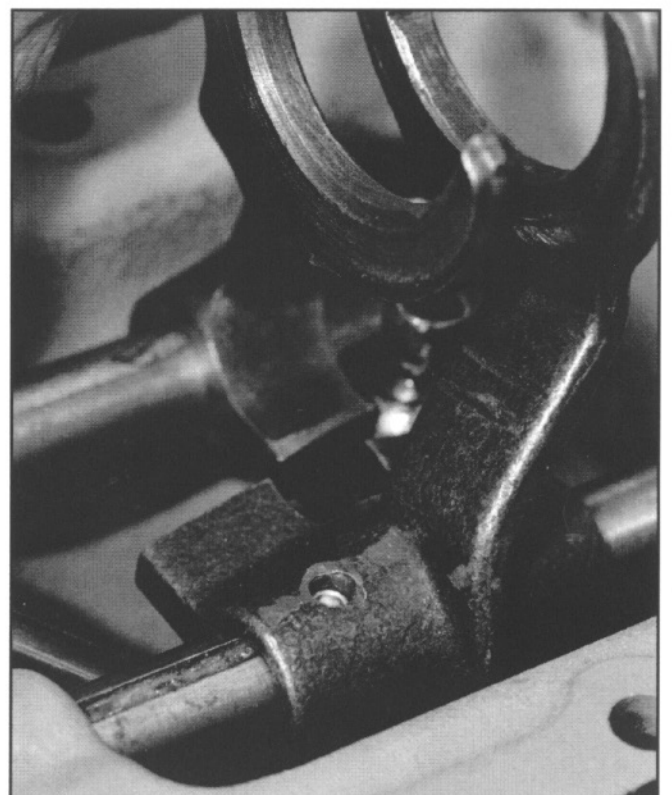


Photo 15

6. Hold the Rivet up into place with the Magnet Tool while positioning the Rivet Upset tool as in Photo 11. Upset this Rivet, see Photo 16.

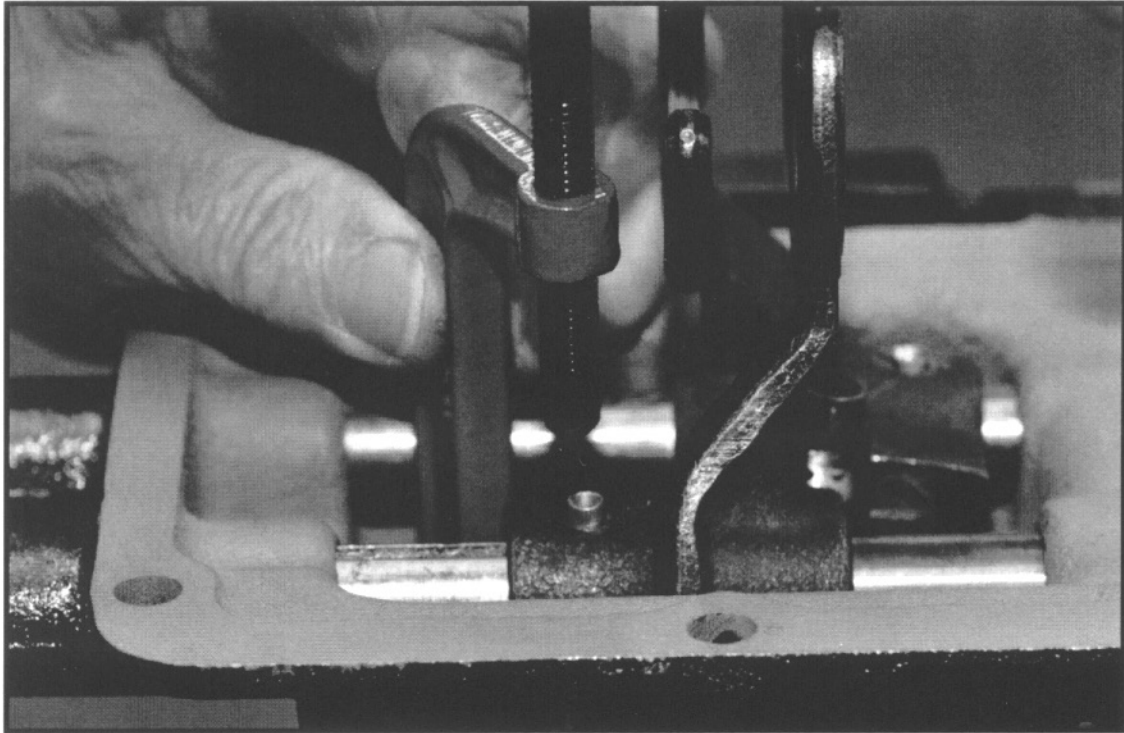


Photo 16

WARNING: Improper use could result in injury. Any spring under tension can be very dangerous. BE CAREFUL

USE AT YOUR OWN RISK

Two very good sources of information concerning Model "A" Transmission Shifting Tower Repair and Rebuilding are:

Model A Ford Mechanics Handbook, Vol. 1, by Les Andrews. Pages 1-328-332
Model A News, Nov. & Dec., 2005. Article by Wiley Higgins. Pages 17-19

Patent Pending
MADE IN U.S.A.