



**QUALITY... PLAIN & SIMPLE®**

**Ford 4R70W/AODE Selector Shaft, Flange & Arm**

**Part # ATA-1004 and ATA-1005**

# Ford 4R70W/AODE Selector Shaft, Flange & Arm Installation Instructions

(Removal and Replacement)

Part # ATA-1004 and ATA-1005

**Building American Quality... With A Lifetime Warranty!®**

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**STOP!** Before starting this installation read the instructions very carefully. If you are not sure about doing this it is recommended you consult a transmission specialist or read a manufacturer's manual first.

**WARNING:** Disconnect battery before beginning installation. Make sure vehicle is in Park and that the tires are scotched.

## Ford 4R70W/AODE Selector Shaft & Arm Installation

**Step 1:** Drain the transmission fluid and remove the transmission pan and filter. **(Photo 1)**

**Step 2:** Remove the 1/8" diameter roll pin. This is located just inside the pan rail on the boss that the selector shaft slides through. The pin protrudes up above the boss about 1/8". Use a pair of side cutters to grab the roll pin and pry the pin up and out using the case as your leverage point. **(Photo 2)**

**Step 3:** Remove the roller spring that holds the transmission in gear. **(Photo 3)**

**Step 4:** Remove the 14mm nut on the end of the selector shaft. Pull the trans lever into low gear to better access the 14mm nut. Hold the gear selector with a box end wrench to keep it from rotating. **(Photo 4)**

**Step 5:** Install the new Lokar selector shaft. Use a small amount of lube oil or white grease on the seal; slide the Lokar selector shaft into the transmission. Put the gear selector plate on the end of the Lokar selector shaft. The plate has two flats on it that will register on the flats of the selector shaft. **(Photo 5)** The gear selector plate has a pin attached to it that must be aligned in the groove of the piston at the end of the gear selector plate. This needs to go into the groove before the 14mm nut is tightened. **(Photo 6)** Once it is in the groove tighten the nut.

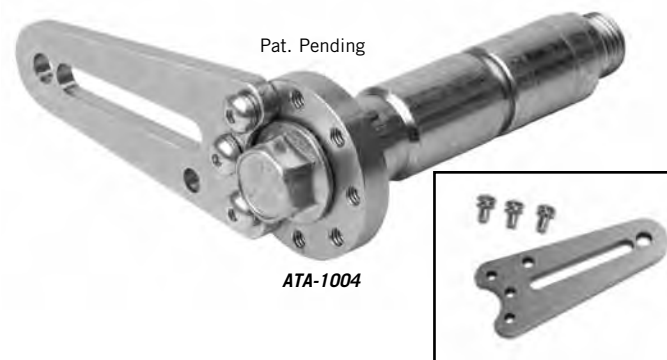
**Step 6:** Reinstall the roller spring that holds the gear plate in gear **(Photo 7)**

**Step 7:** Reinstall the 1/8" roll pin. It will align in the groove in the selector shaft. **DO NOT PUSH THE ROLL PIN ALL THE WAY DOWN FLUSH WITH THE CASE.** It is important that the pin is sticking up above the casting so it can be removed if needed at another time. **(Photo 8)**

**Step 8:** Reinstall the filter and the trans pan add the appropriate amount of fluid.

**Step 9:** Install the shift arm onto the new selector shaft using the three 8-32 x 3/8 button head stainless screws and the three lock washers. When installing the arm to be used with a Lokar shifter the arm needs to be installed at about the 12:00 o'clock positions. There is a 3/16 diameter hole part way up the arm next to the slot in the arm this hole needs to face the back of the transmission. This hole is to install a Lokar indicator brass cable stop. (When used with Lokar Gear shift indicator) When installing it on a Lokar shifter the shifter linkage rod will install into the top hole. **(Photo 9)** This selector shaft will work with a variety of other shifters. The slot gives the ability to adjust the center distance of the shift linkage at the transmission.

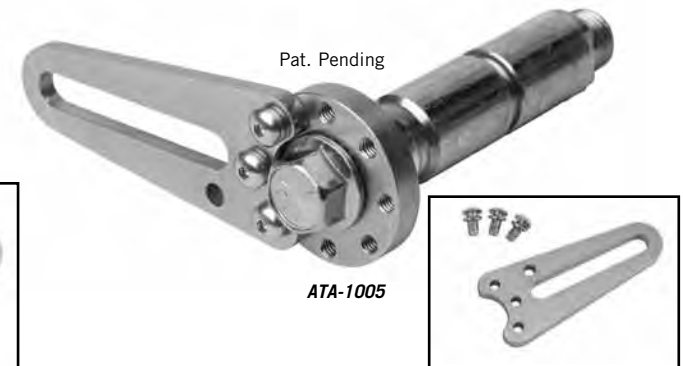
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Pat. Pending

ATA-1004

1/4" slot and hole



Pat. Pending

ATA-1005

5/16" slot



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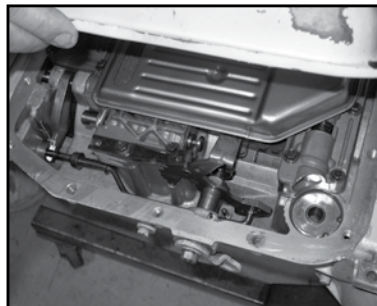
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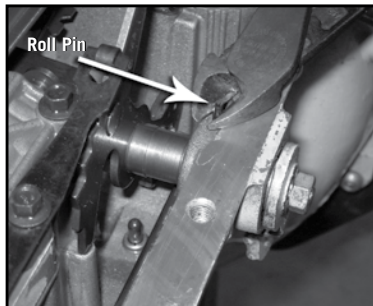
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## **Photos 1 - 9**

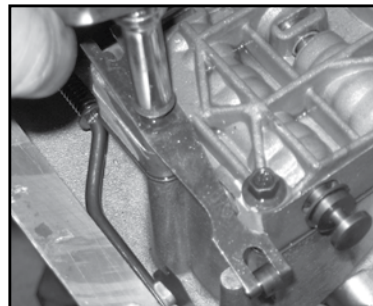
### **Ford 4R70W/AODE Selector Shaft & Arm Removal and Replacement**



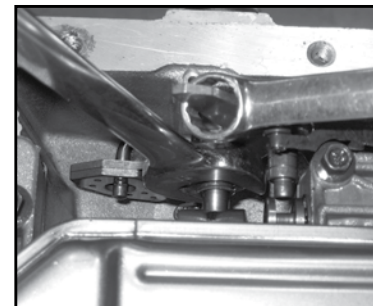
**Photo 1**



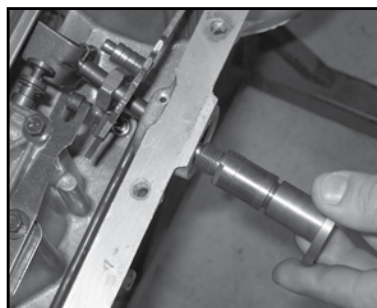
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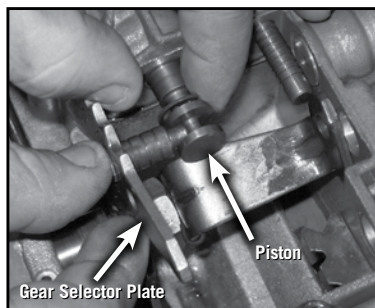
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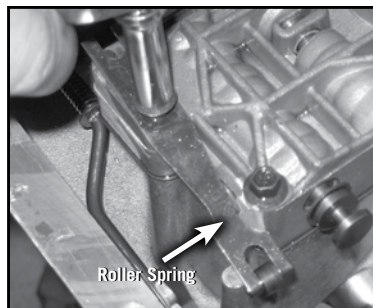
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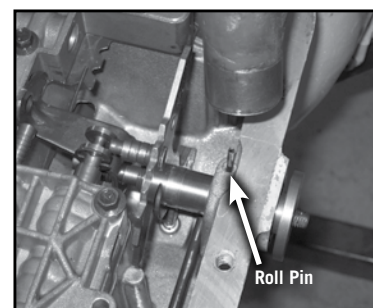
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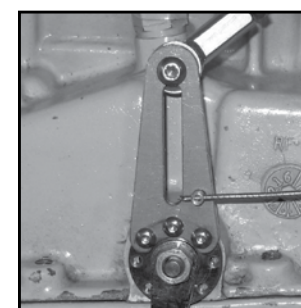
**Photo 6**



**Photo 7**



**Photo 8**



**Photo 9**