

# Installation Manual for your NWF Reverse Dana 300 Cable Shifter Kit



## Step 1:

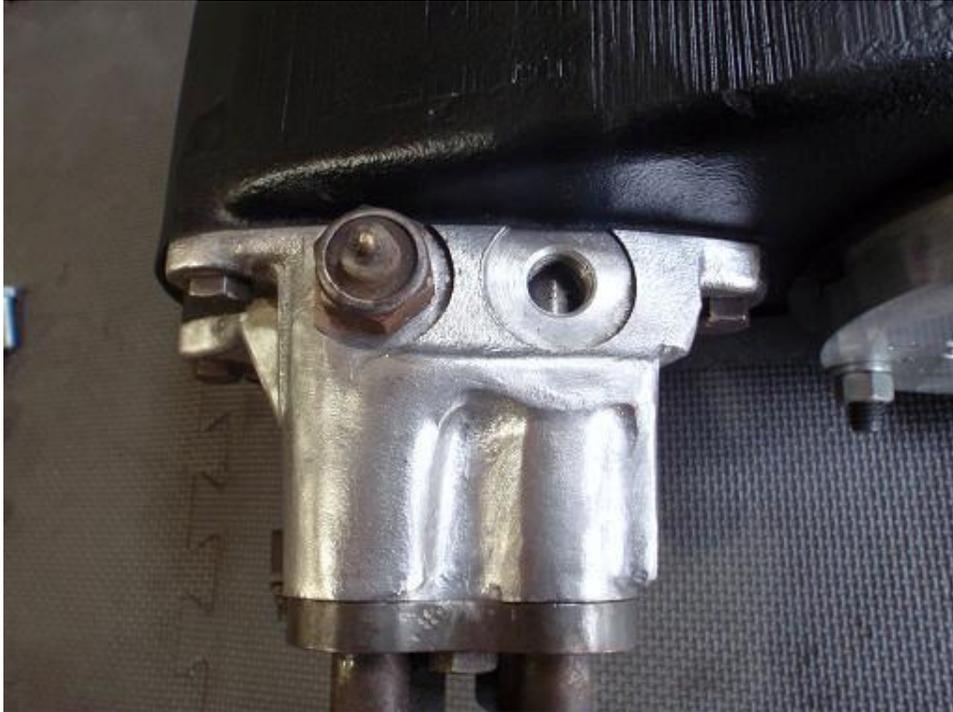
Remove the cast mechanical shifter tabs from Dana 300. This is most easily accomplished by the use of a sawzall.



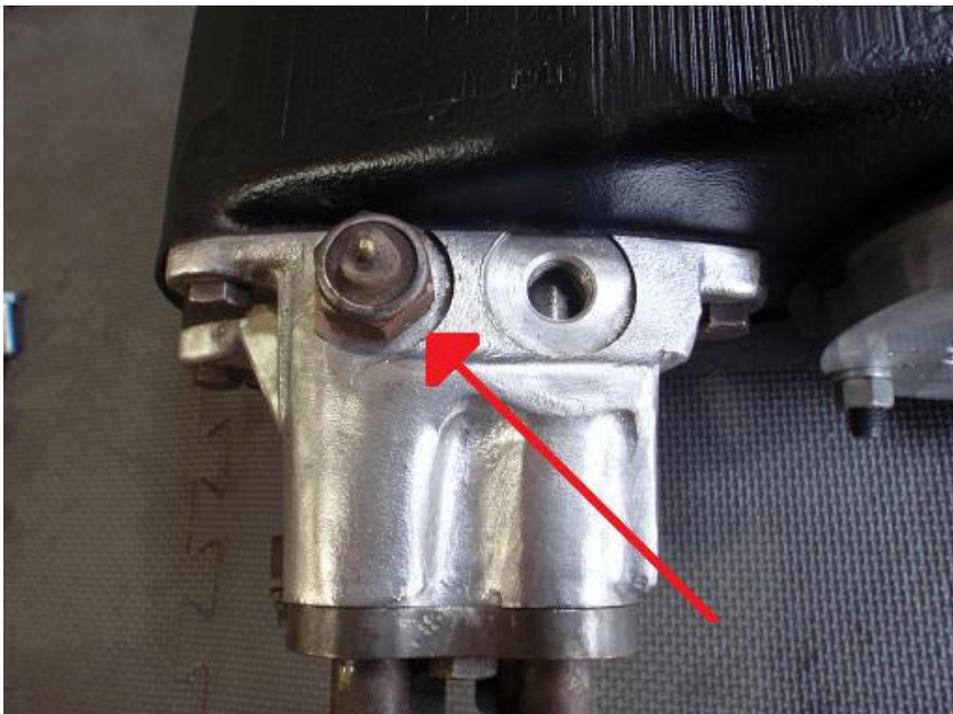
After cutting off the tabs, clean the retainer which encloses the shift rails. We accomplished this with the use of a die grinder and a blending disk.

## Step 2:

There are 2 4x4 dummy light sensors on the Dana 300. Looking at the input side of the case, remove the left sensor.

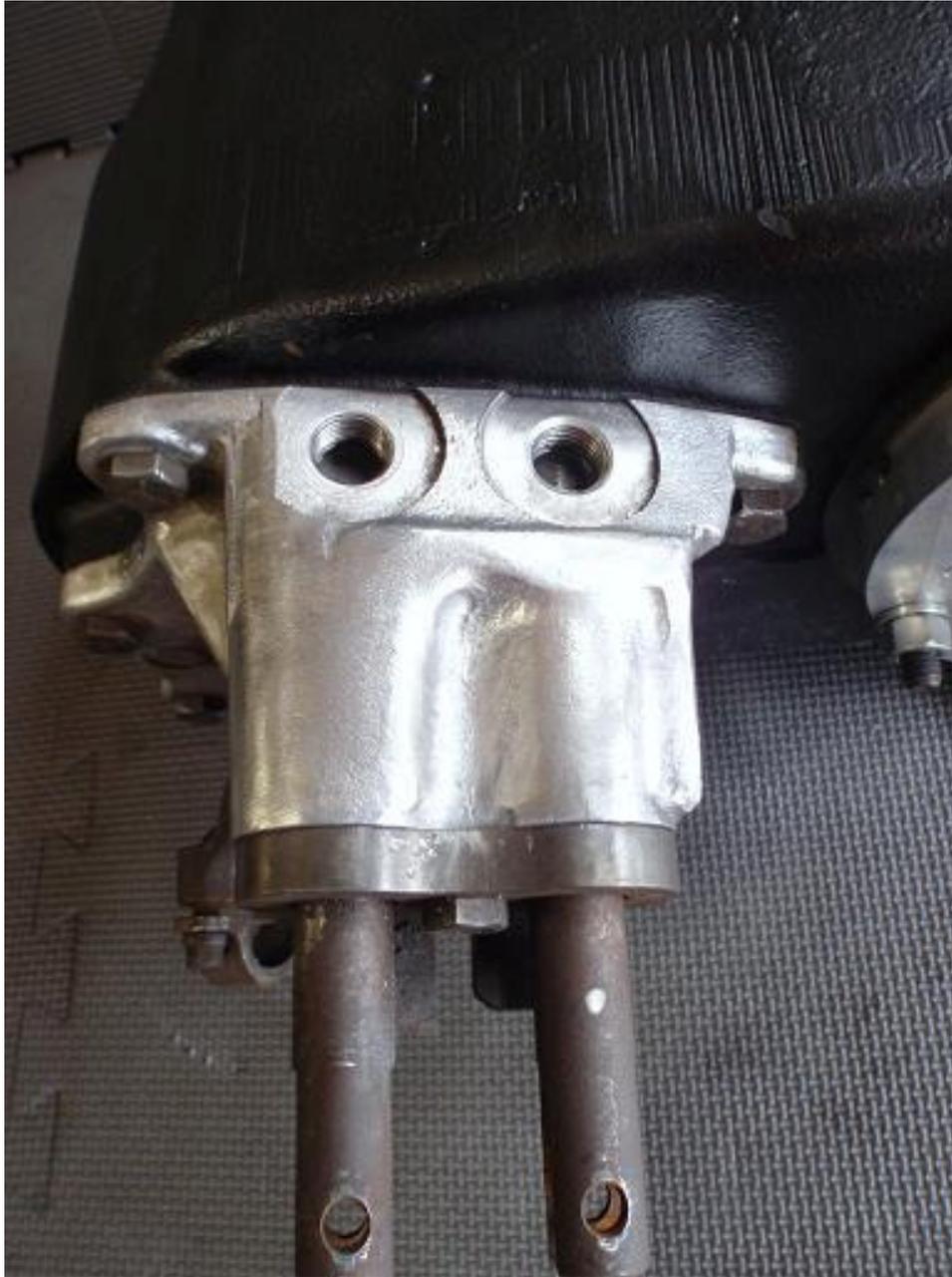


**NOTE:** Our case was missing the hi/low range sensor (right). You should have a low profile sensor in that hole that does not need to be removed. Instead the following photos show it with a socket set screw.



### Step 3:

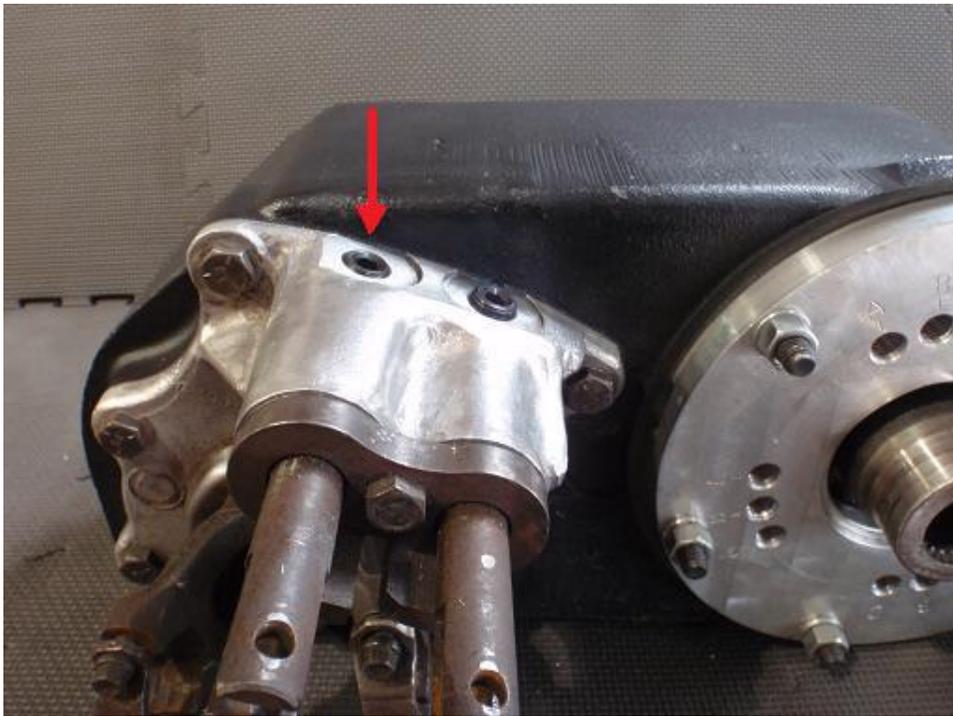
Position the shift rails so the case is in 4wd LOW RANGE (Shift rails all the way into the case). If you have difficulty doing this, try turning the input shaft while knocking the rails with a rubber mallet.



### Step 4:

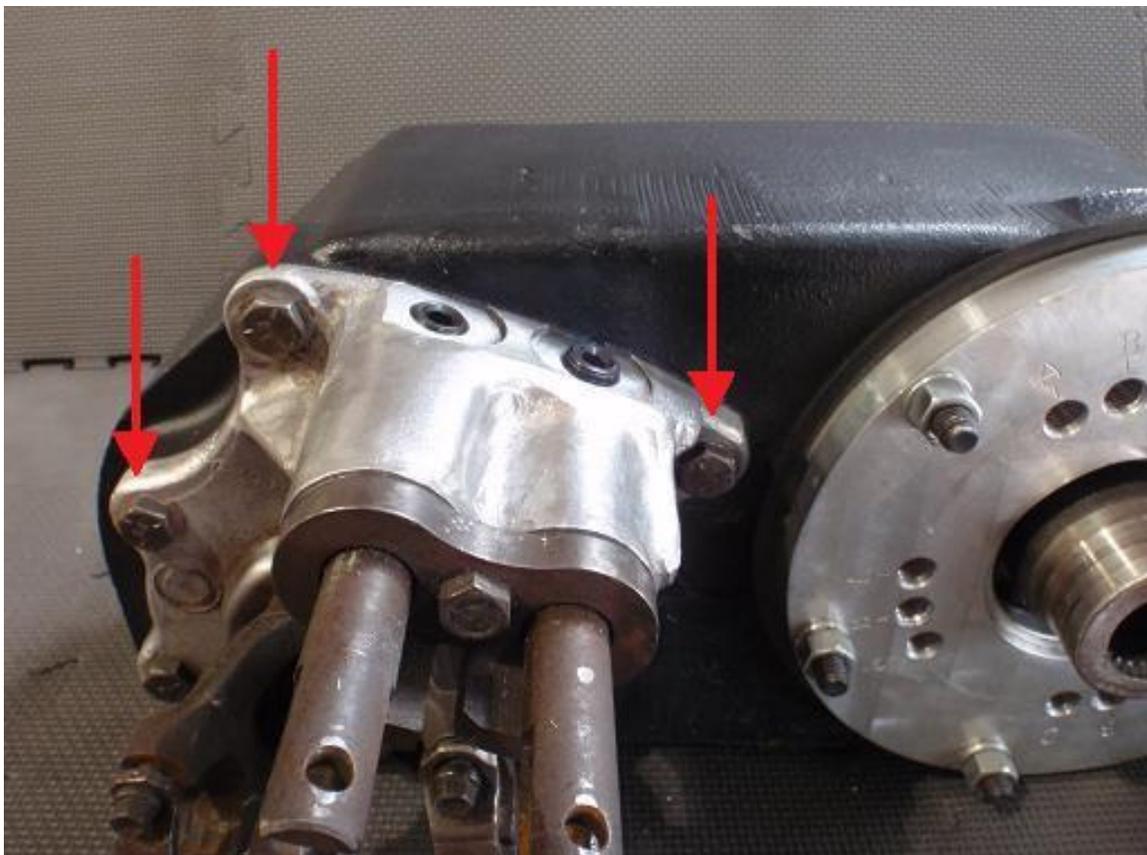
Apply blue locking compound onto the black socket set screw. Thread it into where the dummy light was removed in step 2. Thread until it bottoms on the shift rail, and then back it off half a turn.

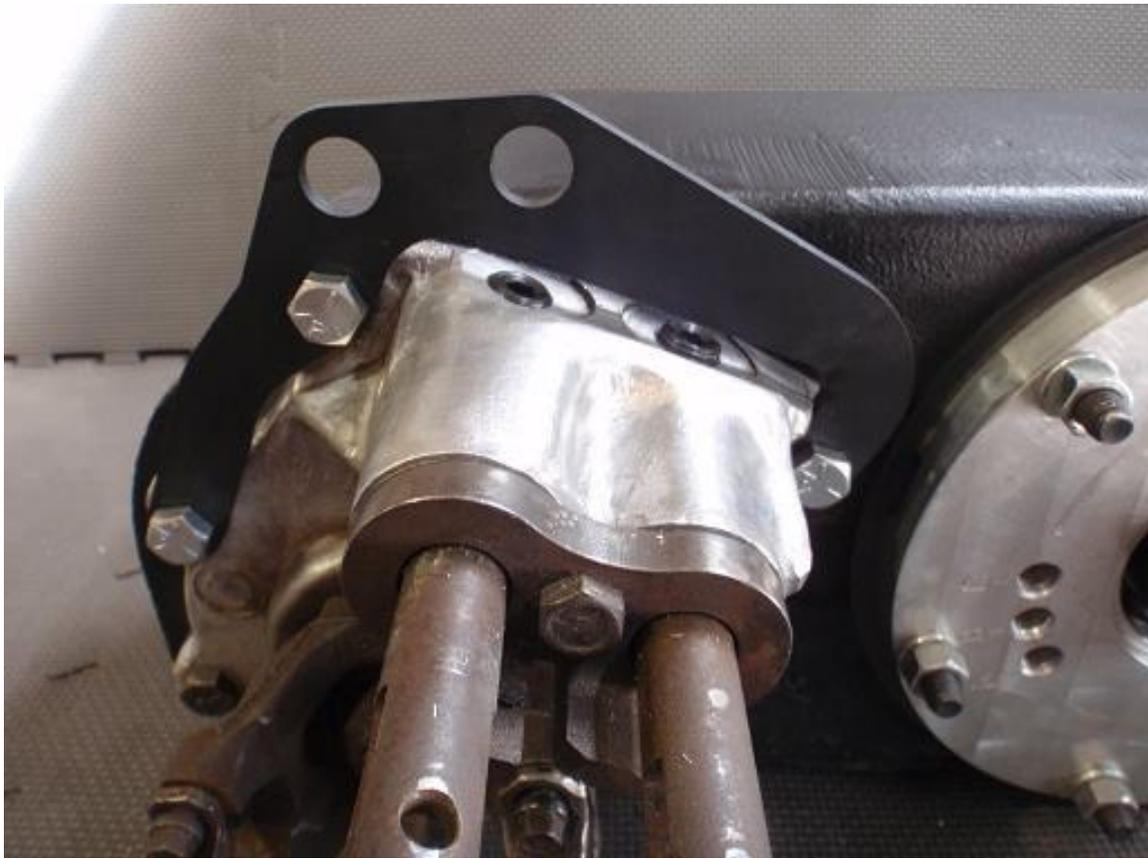
Again it is important that the shift rail is all the way in the case (4x4) when you do this, so the plug does not interfere with the shift rail.



### Step 5:

Remove the top 3 cap screws shown in the photo and position the bulkhead bracket as shown. We are now shipping new hardware (3/8 x 1" cap screws) to fasten the bulkhead to the case.

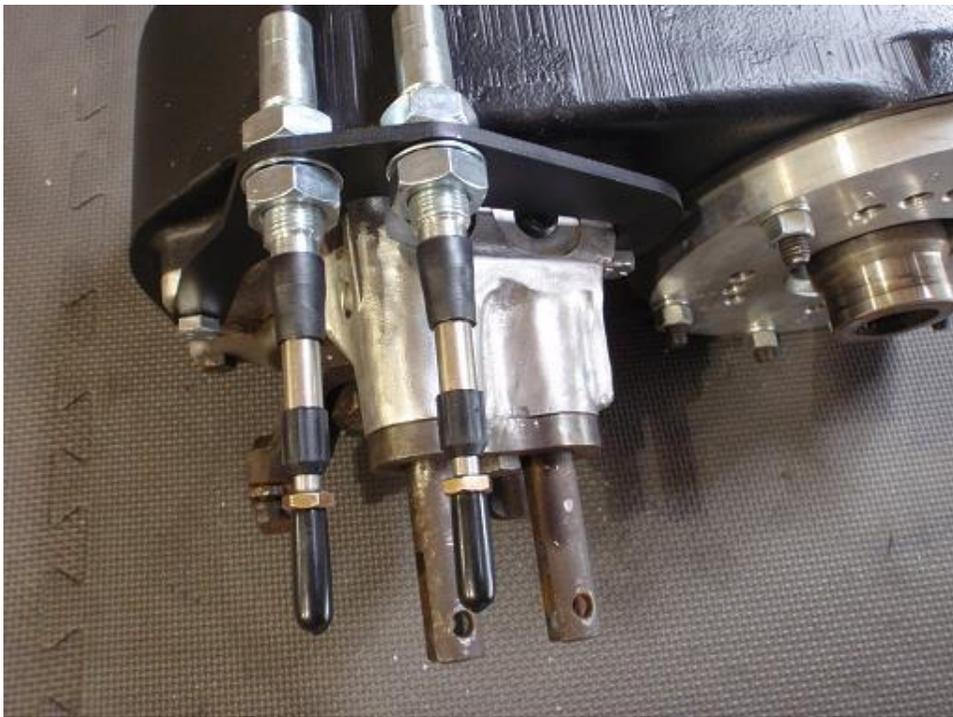




## Step 6:

On one end of each cable remove the jam nut and one locking ring. Slip cables through center holes of bulkhead bracket and reinstall locking ring and jam nut. A good starting point is to center the bulkhead on the threads of the cable.





## Step 7:

Thread the clevis onto the end of the shifter cable until the end of the cable sits flush with the inside of the clevis.

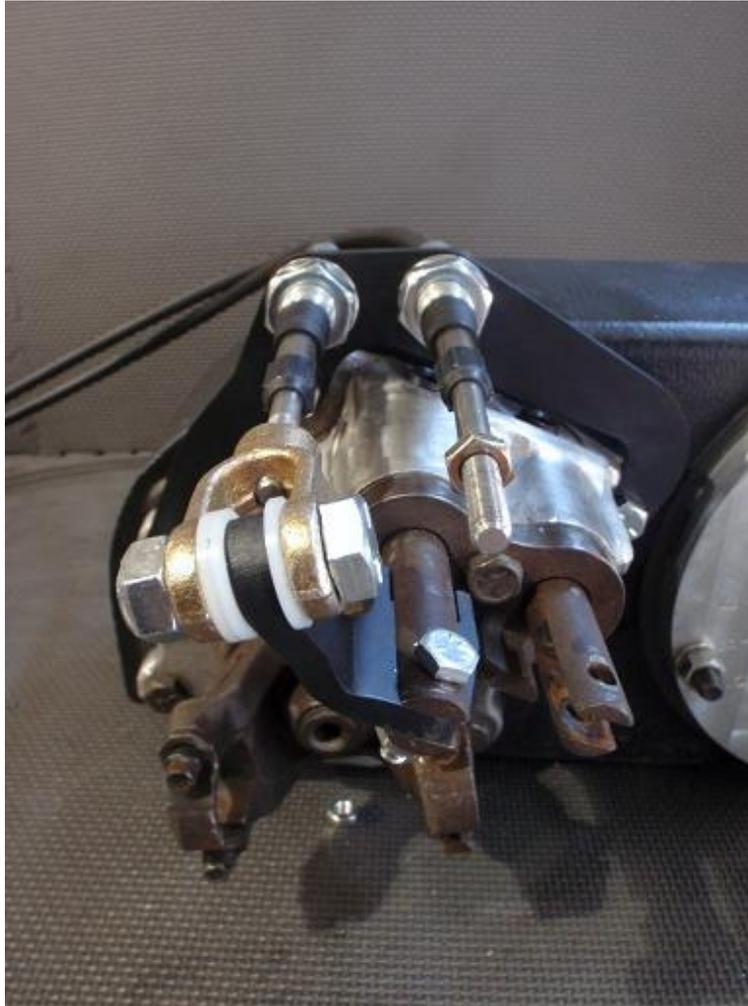
Locate the smaller of the two shift rail adaptors (shorter 'ear'). Slide it into the 4x4 (left) shift rail as shown. Fasten with the  $\frac{1}{4}$ " x 1" cap screw and top-lock nut.



## Step 8:

Insert a 1/4" x 1" cap screw through the end of the clevis and shift rail adaptor and the other side of the clevis as shown. It is important that the head of the cap screw is inward as shown. Fasten with a 1/4" top-lock nut.

**Note:** Our new shifters are shipped with a different style clevis which does not use the nylon flat washers.



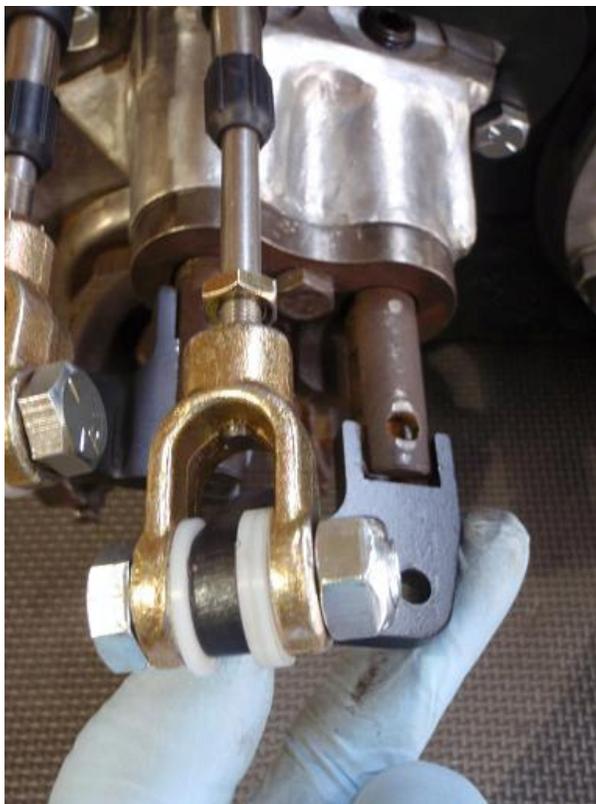
## Step 9:

Thread on a clevis onto the other cable in the same manner as step 7. Now attach the clevis to the other shift rail adaptor. This is done the same as the last step, keeping the head's of the cap screws facing each other.

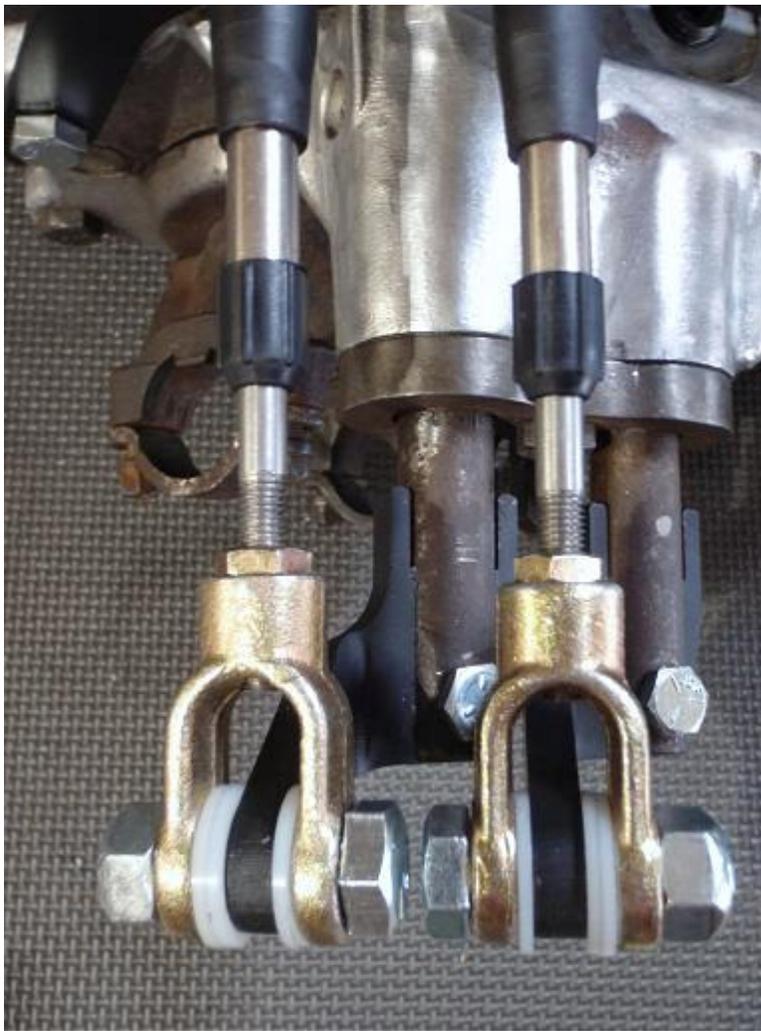


### Step 10:

Holding the clevis and shift rail adapter assembly, pull the cable through the housing towards yourself enough that you can slide the shift rail adapter into the shift rail.



... And fasten with a 1/4 x 1" cap screw and top-lock nut. Lastly tighten cable jam nuts against each clevis.



You have now completed assembly of the reverse cable shifters on your Dana300. Now attach them to your shifter assembly by following the Shift Lever Installation Manual.

A reminder for those 'flipping' their Dana 300 to a drivers drop: You must take into account placement of the breather, plug, and fill level before installing into your 4x4.