

## Kracker's 98 - 94 Transmission Swap

### The Re-pin Alternative

4R70W

Since I really could not find a really detailed "How To" the swap. I decided to do it the easiest way for me to know it would be right and simple. So I decided to pull everything electronic out of the 94 and put it into the 98. Since the Issue I had with the 94 Transmission. Was a mechanical one.

#### Step 1: Do You Have A 98 Transmission?

- Look on the top of the Transmission for a casting year. Located On the top of the Transmission.



Also look for a big orange sticker that informs the Technician that the Transmission does not have the accumulator upgrade. This Transmission did come out of a 98 LSC.

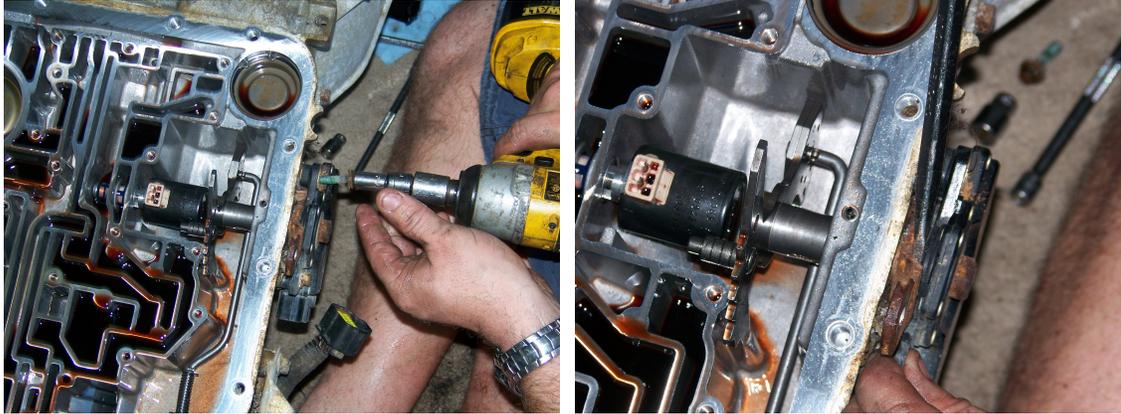
#### Step 1: Tools needed

- Torque Wrench
- Small Flat Head Screw Driver
- Socket Set Metric & Standard
- Box End Wrenches or 2 Box End Wrenches
- Roll Of Shop Towels
- Extendable Magnet
- Zip ties
- Impact Gun
- Adjustable Torque Drill

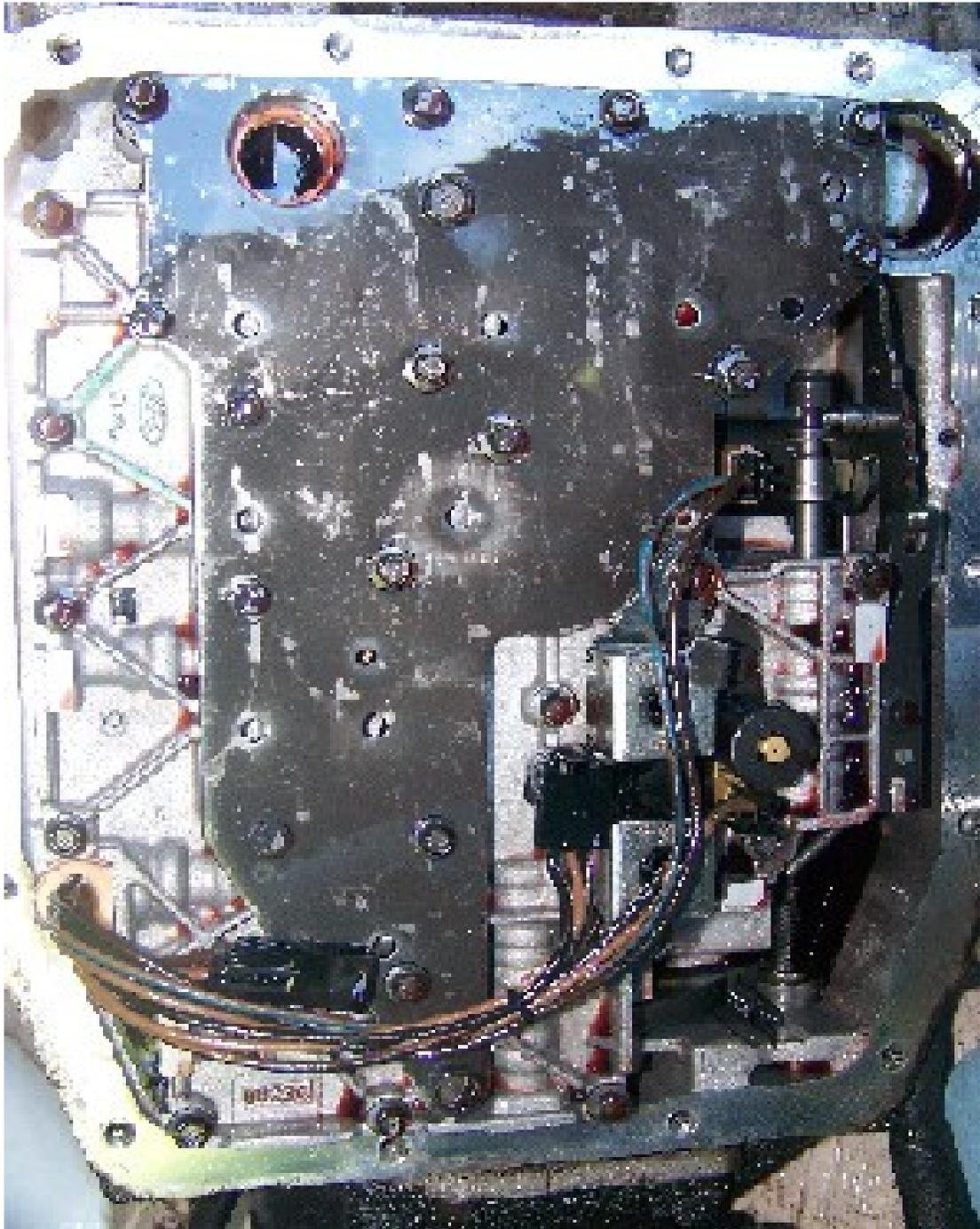
- Breaker Bar
- Permatex

## Step 2: Set Up & Pan Removal

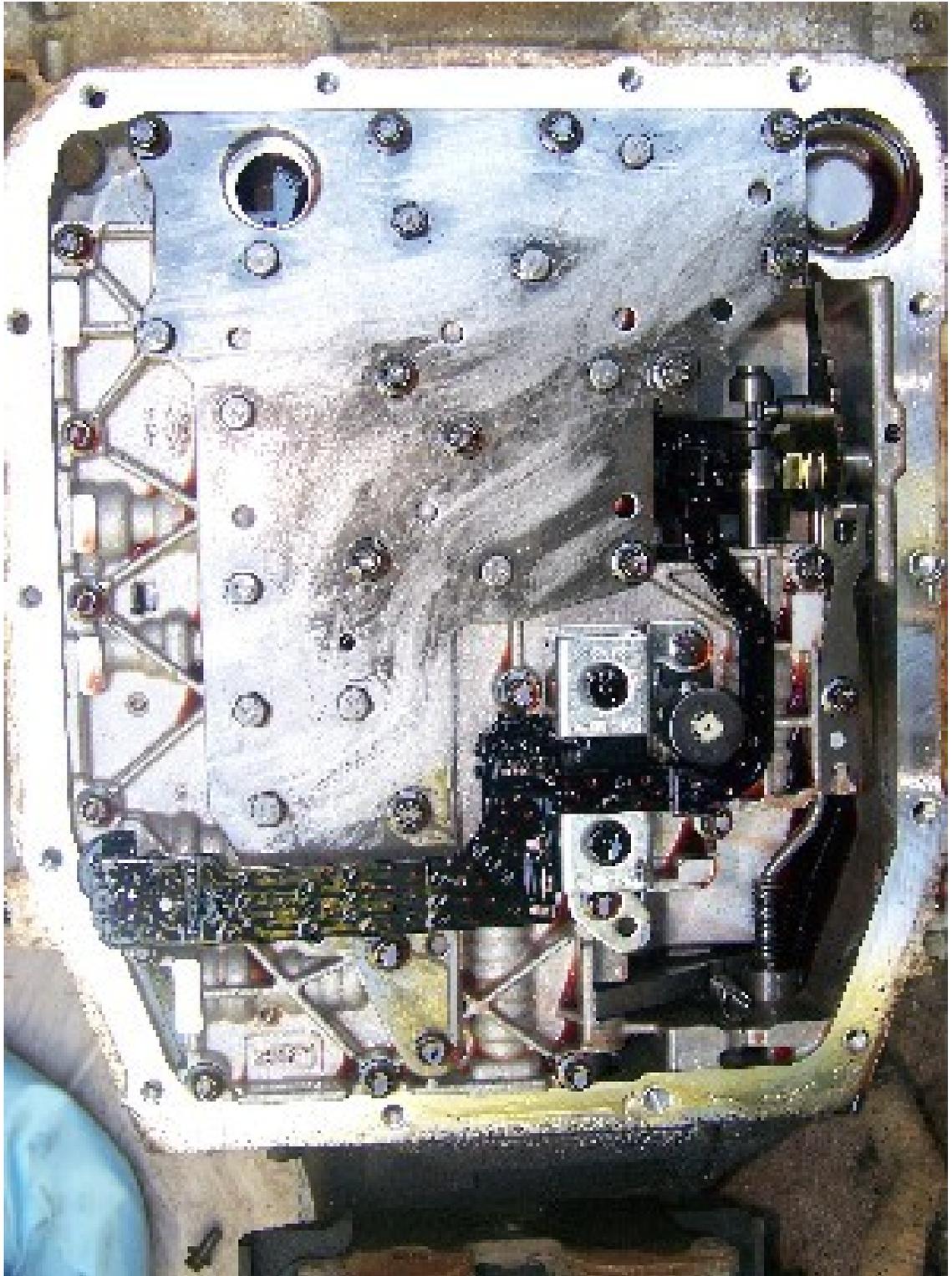
1. You want to have a clean workspace.
2. Then Drain both transmissions
3. Remove the harness from both Transmissions
4. Remove the MLPS. So you do not damage it.



5. Flip the transmissions over. So you can access the pan.
6. Remove the Pan bolts
7. Study the two Transmissions so you know what has to be done.



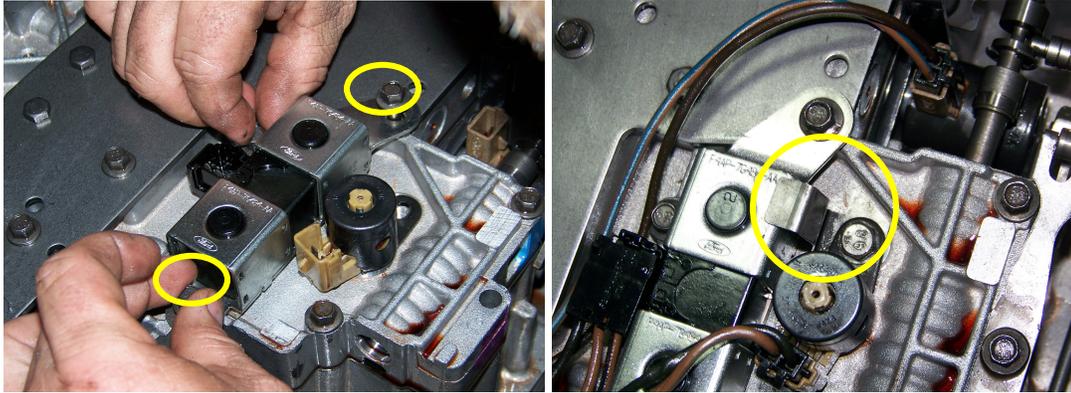
Gen 1 94 Shown



Gen 2 98 Shown

### Step 3: Solenoid removal

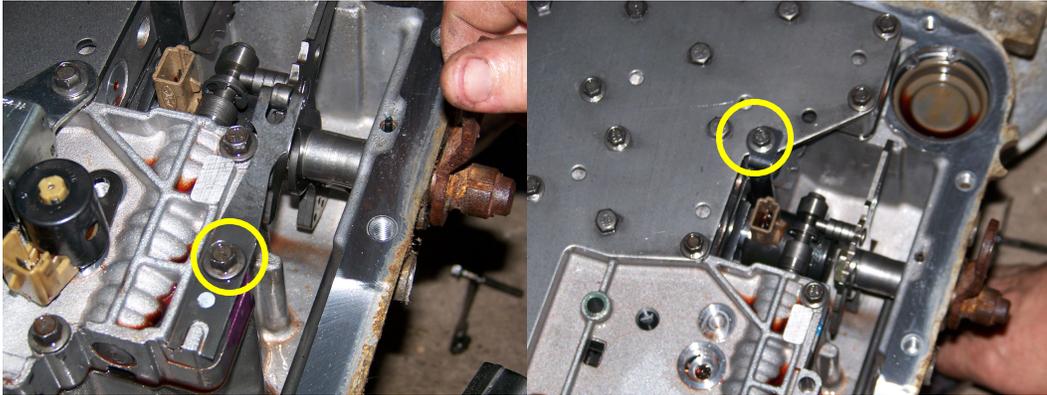
1. Remove the unplug all of the solenoids on the 94 and remove the circuit board from the 98
2. Unbolt the shift solenoids and TCC solenoid
3. Remove the solenoids. Gently pry the solenoids up or just use your hand.



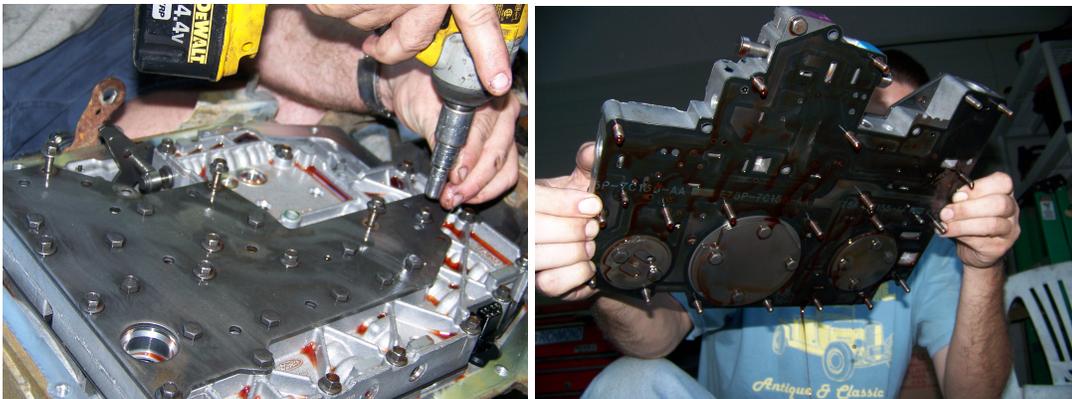
**\* Note there is a grounding clip on the 994 TCC solenoid bolt. You will need it. The 98 does not have one. Remove what I believe to be the Trans Temp sensor. Just gently pry it off the plate. If you break the clip don't freak out. It's no big deal. I broke the clip to.**

#### Step 4: Remove Valve Body

1. First you must remove the gear selector switch tensioner. Loosen the Trans pressure solenoid clip first and set it and the bolt aside. So you keep them together.
- 2.

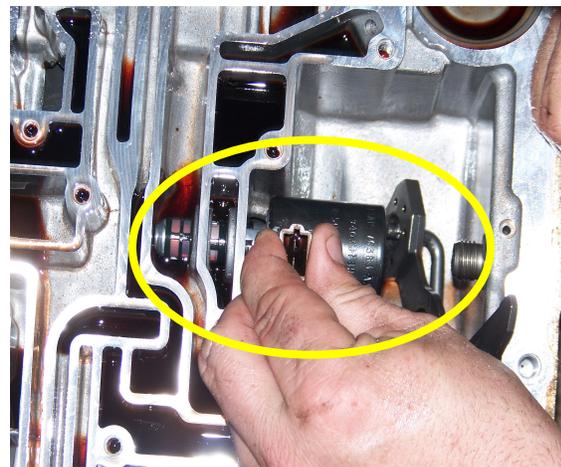
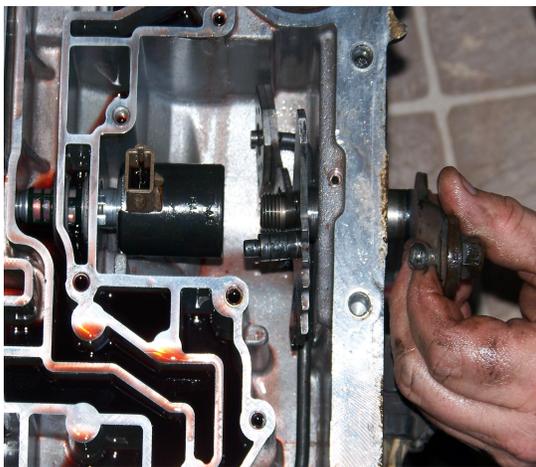
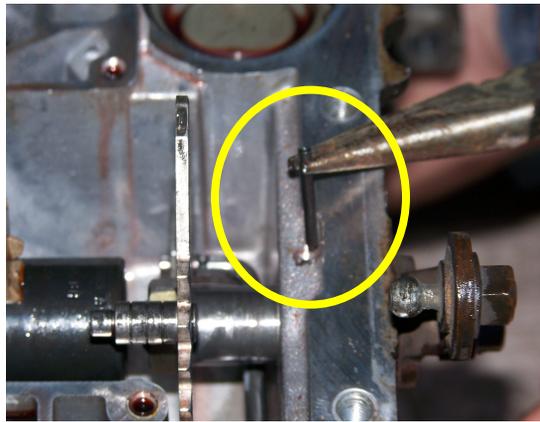
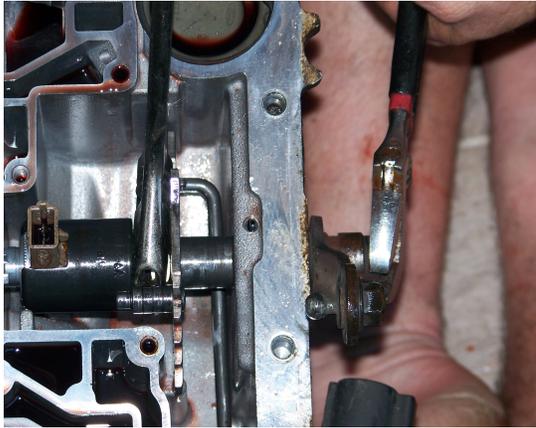


3. Loosen the rest bolts on the Valve Body. Just loosen the 10mm Bolts on the 98 Transmission. Just the bolts with the washers. You do not have to remove the plate. Just remove the valve body in one piece. **Pull the plate off of the 94 Valve body.**



#### Step 4: Transmission Line Pressure Solenoid:

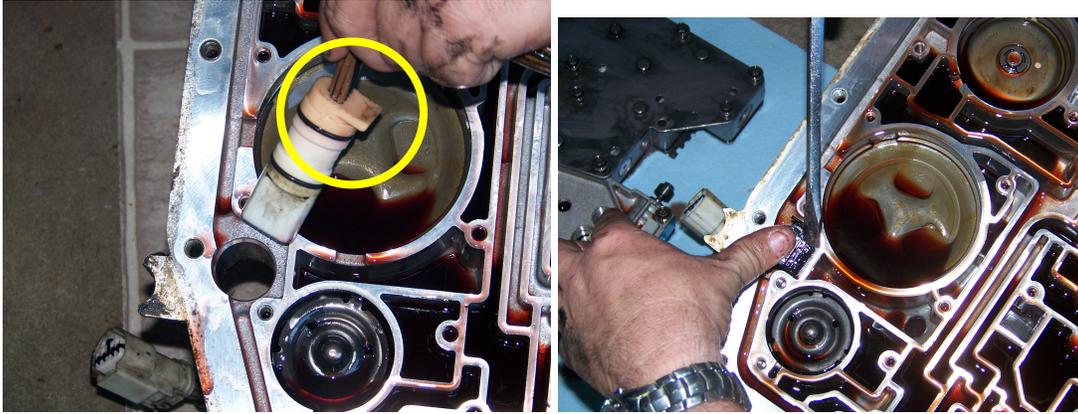
- Remember you already removed the Retaining clip. When you removed the valve body
- Remove the gear selector nut. Use a wrench on each end of the selector arm. To loosen the nut and remove. Then Pull the pin up and out to release the arm. Then slide it back out of the way. You do not have to remove it. Then slowly work the solenoid out.



**You can use the 98 Trans Pressure Solenoid. You just have to solder the wires to it. I choose to just swap everything.**

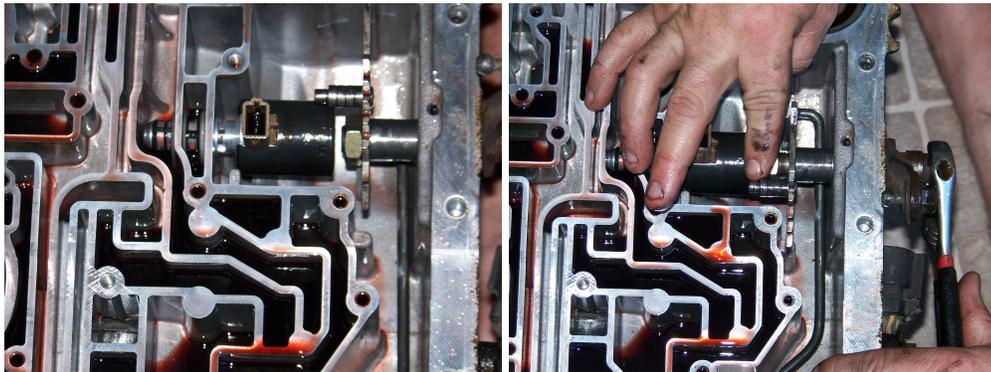
### Step 5: Wiring Harness

1. Gently remove the plug from the bottom side of both Transmissions. Pry the plugs out with a flat tip screwdriver. Place screwdriver under the tab shown in the diagram. And install the gen1 harness into the 98 transmission

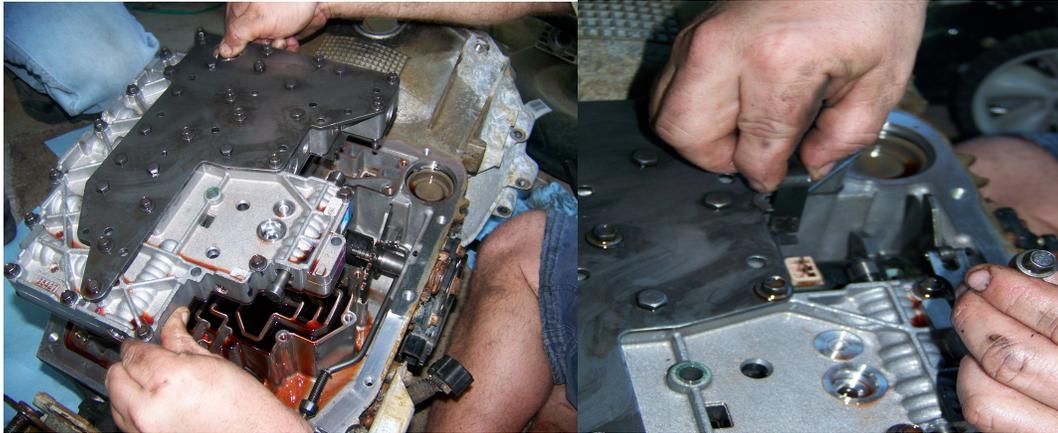


### Step 6: Reassembly

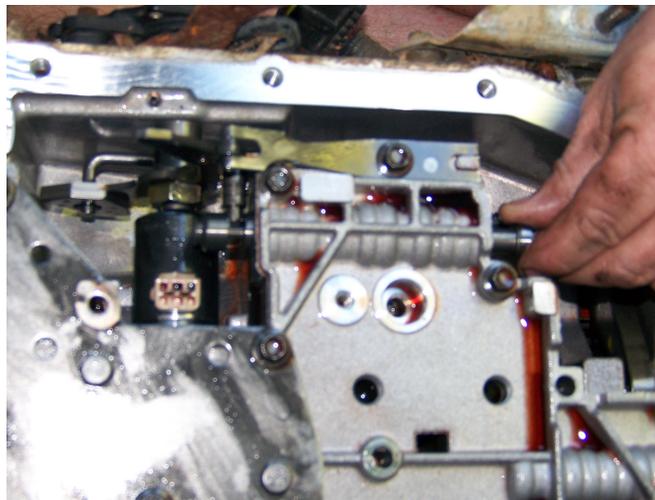
1. Reinstall the Transmission Line Pressure Solenoid. Install the Gear Selector arm and Pin. YOU want to install the nut onto the Gear Selector Arm. Then install the Pin. Then tighten it.



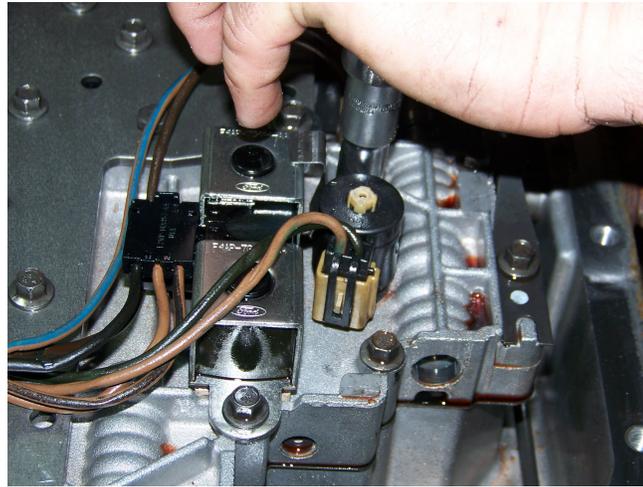
2. **Install Valve Body. Torque the bolts to 10-12lbs. starting from the center outward. Still use your judgment and don't strip the threads. Install the retaining clip for the Transmission Pressure Solenoid.**



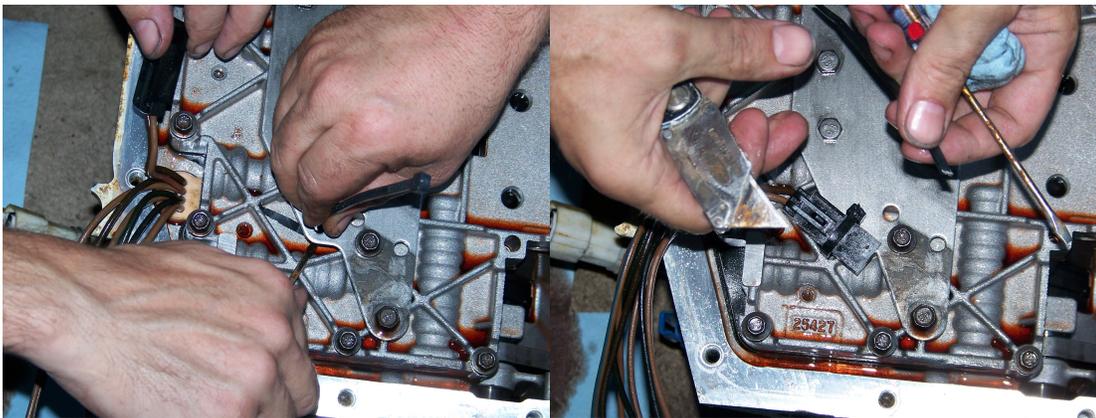
3. **Install the Gear Selector Tensioner. Make sure the Gear Selector Valve is in the correct slot.**



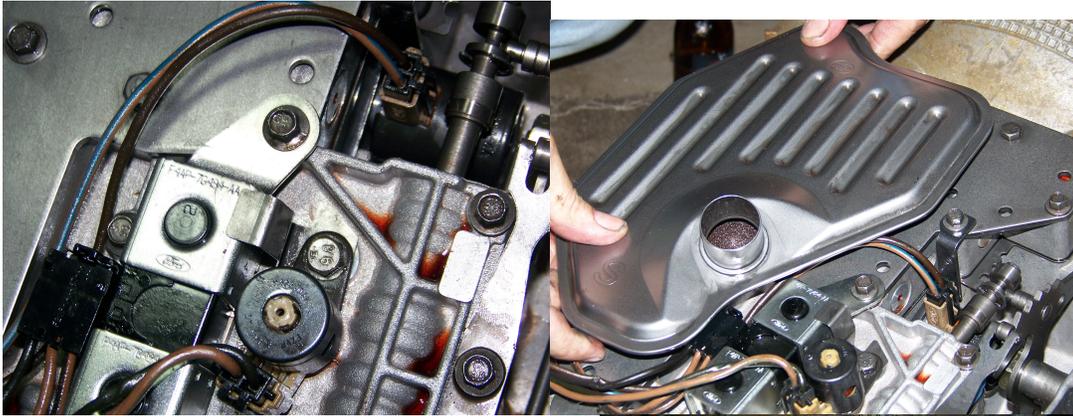
4. Install Shift Solenoids and TCC Solenoid. **Don't forget the install the Grounding Clip for the TCC from the 94.**



5. Install the Temp Sensor. If you broke the clip Zip tie it like I did.



6. Now plug all the wires back in Install filter. Clean you pan and gasket. And install



7. Torque your pan bolts flip the transmission over. Install the MLPS and the 94 Exterior Harness. Make sure you line up the MLPS properly. Switch out the Speed Sensor. PUT IT BACK IN YOUR CAR.



