



Disconnect mass air flow sensor (MAF)



Remove air box assembly



Remove radiator cover



Remove grille



Remove right front tire and wheel liner



Remove skid plates

Make a note on the orientation of the transmission cooler lines (LB7 and LLY repair lines are all the same length). Bottom line of transmission goes to bottom fitting on radiator. Upper fitting of radiator goes to passenger side of external transmission cooler. Driver's side of transmission cooler goes to upper fitting on transmission. ('06-'10 models) Hose from the transmission to radiator requires the longer repair hose, hose from radiator to cooler takes the shortest hose and hose from cooler to transmission takes the intermediate hose.



Cut the factory transmission cooler line (rubber portion) to drain the transmission fluid from lines



Remove air box tray and support



Remove intercooler pipe for ease of installation
***CAUTION: BE VERY CAREFUL TO NOT GET DIRT AND DEBRIS IN INTERCOOLER**



Remove all hydraulic lines by prying off plastic caps and removing spring clips with screwdriver or pick.



Cut all tubes as close as possible to the crimps with the compact tubing cutter (available on our [Web site.](#))
NOTE: If using a hacksaw or cutoff wheel, be sure all grindings, shavings and burrs are removed and lines are clean. After all ends are removed, mark all cut lines at 1/4" from end with a marker.



Install the compression fittings on the tubes and tighten. It's important to really torque these fittings. Don't strip the threads, but use good force. Install and fully torque the longest hose assembly on the tube going to the lower radiator. It will be difficult to install this hose on vehicle. Install all back in truck.



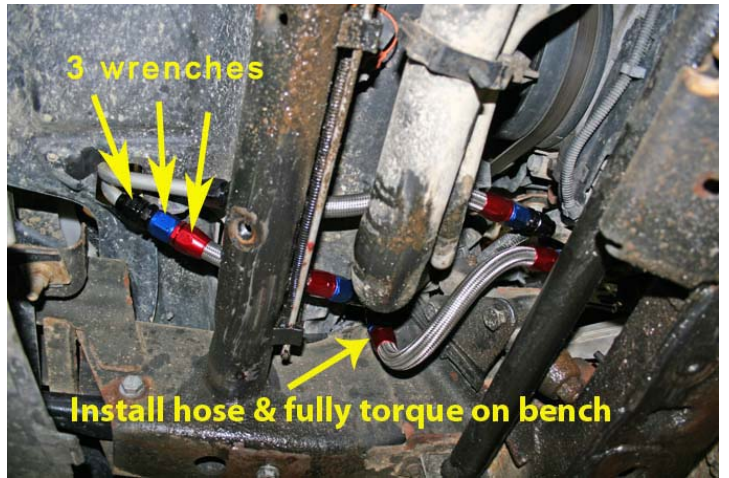
Unbolt transmission line bracket from motor



Disconnect transmission lines from transmission.



Move lines forward to make the ends accessible to cutting with compact tubing cutter. Mark line ends at 1¼" to assure that fittings are fully seated, then attach compression fittings and fully torque.



Connect transmission lines in correct locations, make sure fittings are tight and lines are not rubbing. You'll need a wrench on each of the 3 fittings to tighten properly. Grab a friend for a 3rd hand.

Start up Truck and visually check for leaks. NOTE: If leaks occur, 90% of time, fittings are not fully tightened. Please check all connections for proper seating and re-tighten before you call.

Check transmission fluid level and top up as required.

Reassemble truck in reverse of disassembly.

NOTE: when reinstalling wheel, torque to specs, test drive and torque again. After 25 miles torque again.

TOOL LIST

1. Safety glasses and latex gloves
2. 10 mm socket and ratchet
3. 15 mm socket (for skid plate)
4. 2 – 1" open end wrenches
5. 5/16" nut driver
6. Lug nut wrench
7. Torque wrench
8. Small straight screwdriver
9. Body pin puller or needle nose pliers
10. Pick
11. Felt marker and ruler
12. Utility Knife
13. [Compact tubing cutter](#)
14. Oil catch pan and rags
15. 2 quarts transmission fluid
16. Case of Budweiser (just kidding – it won't take that long! Maybe a 6 pack.)