

Hi All

Just thought I would give you all a better write up on the so called hard shift with the +98 RODEO / FRONTERA auto transmission.

Tools required:

10mm socket
14mm socket
½" or 12mm short ring spanner
T15 torx screwdriver
Cable tie
Cotton buds
Tissues
Degreaser

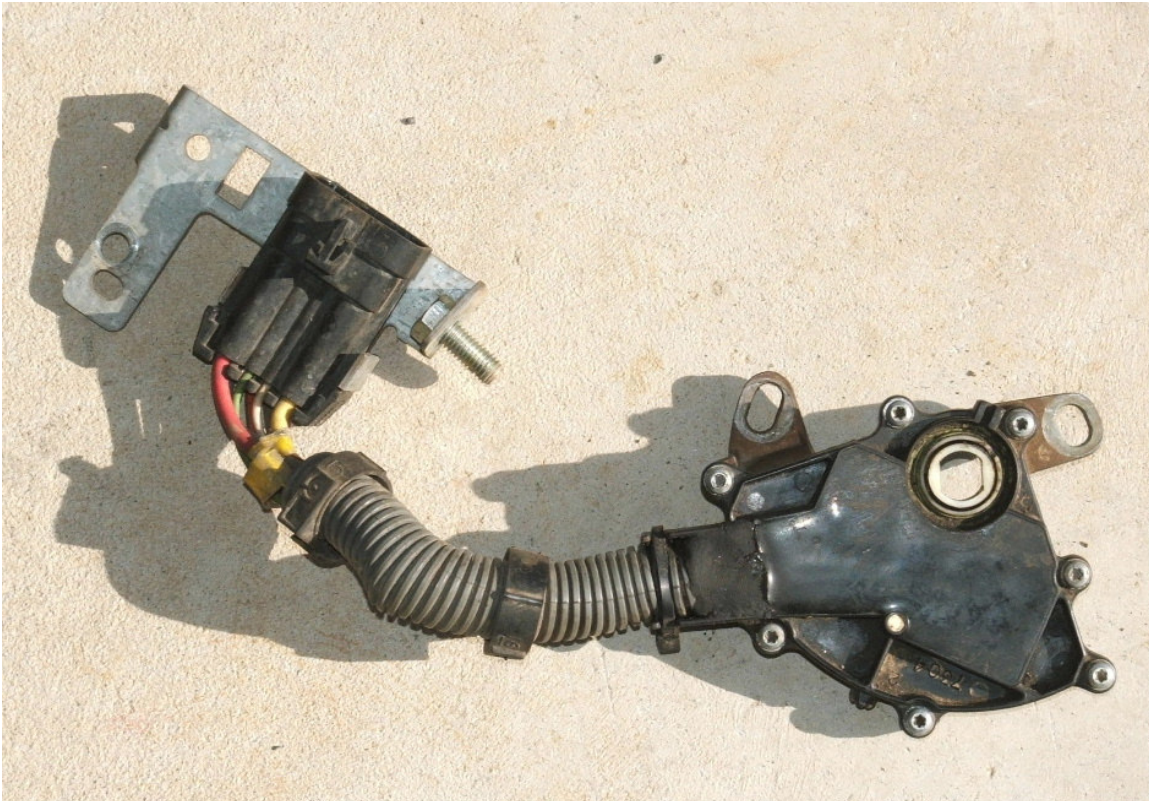
The range or mode sensor is located underneath on the auto gearbox towards the front on the left hand side from the perspective that you are inside looking forwards.

After making all necessary safety precautions,

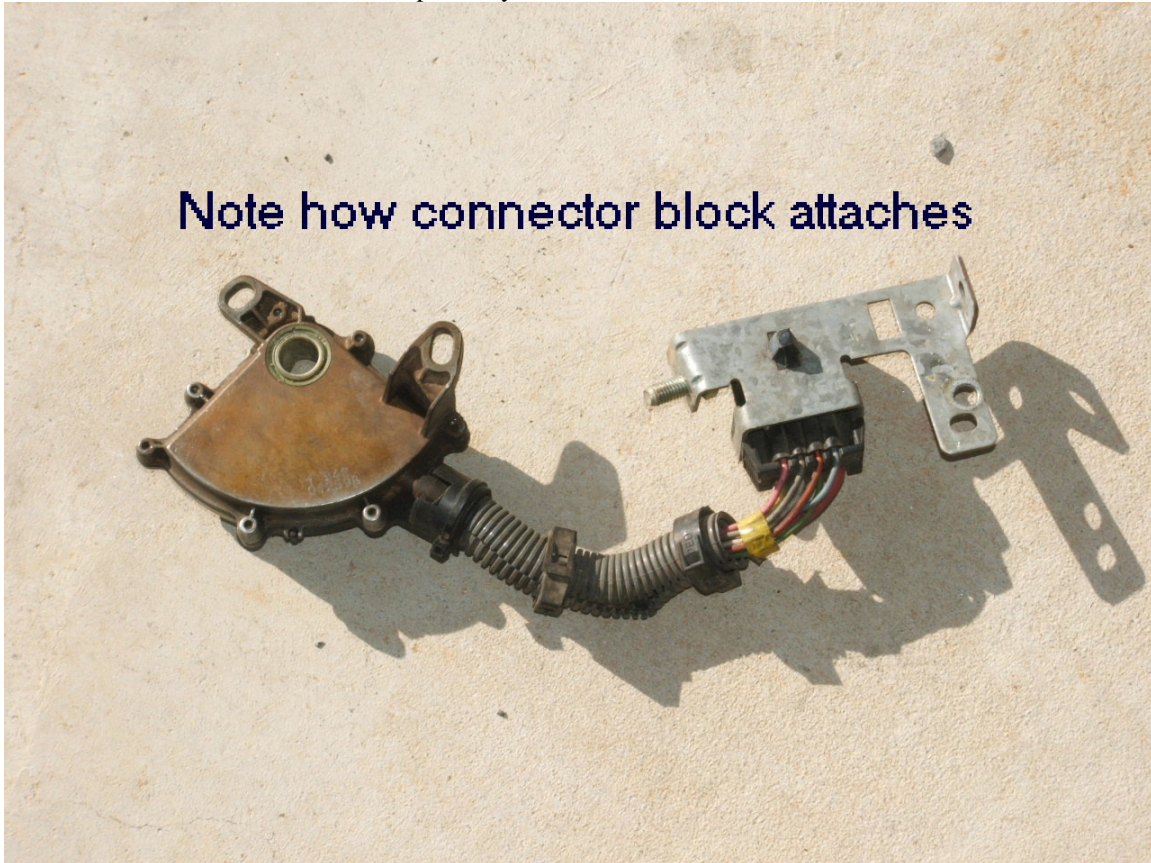
1.0 Remove the clip on metal cover.

2. Make note or witness mark the position of the sensor in relation to the 2 bolts as the sensor sits in slots and may effect the position of the shift stick.

3. Remove the 14mm nut and the 2 x 10mm bolts.



4. Unplug the multi connector plug and now comes the tricky bit. The remaining attached connector will not come away from the attached plate without breaking and the 2 bolts holding the plate must be removed these are another 10mm and 12mm respectively.

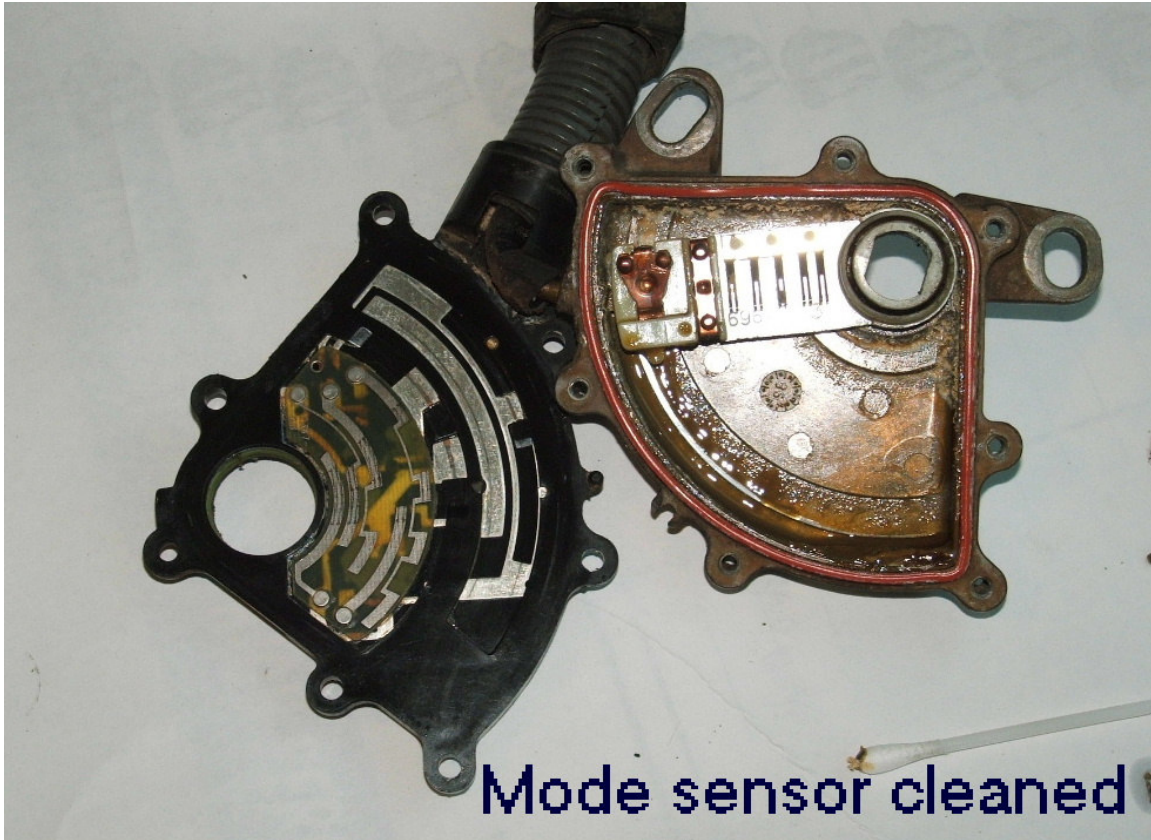


5. Ease the shifter linkage from the sensor shaft and remove the sensor from the vehicle. Clean the outside of the sensor from dust and dirt etc

6. On a clean workbench undo the 8 torx screws and cut away the cable tie and ease the two halves of the sensor apart.



7. You may find that the original grease has turned to toffee and or that tracks may have wear marks or corrosion. With the aid of a cotton bud remove as much excess grease as possible then with the aid of a tissue and a spray on the tissue with degreaser and wipe the tracks till clean.



8. Regrease the tracks with suitable dielectric grease (sorry cant help with a brand) and close the sensor doing up the torx screws evenly and replacing the cable tie.
9. Refitting is the reverse of the above making note of the witness marks for the orientation of the sensor in the slots.