6L80E/90E Winter Tap Shift Modification

Installing switch brackets/switches for tap shift feature in a Winters 4L80E shifter.

The shifter must be taken apart to allow all the updates parts to be installed.

Remove shifter from plastic cover if you have this model, then remove the side covers, this is done with a 7/16" socket. Then remove the socket head cap screws that hold the side covers to the cross bars at each end of the gate plate. Now remove the side paltes from the pivot shaft, this may need the help of a soft hammer.

With the side plates off and the center pivot lever assemble apart you now need to tap the lever pivot roll pin so you can remove the hex shift lever. Pull the hex lever up out of the housing. Be careful as when you remove the lever the plastic part that keeps the lever to either side and spring loaded balls will come out as well as the springs behind them.

Now insert the new supplied aluminum part. It can be a trick holding the balls in place while insert this into the housing. Reinsert the hex shift lever and tap the roll pin back in place.
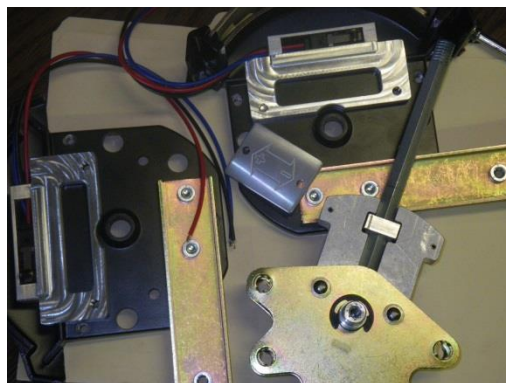
Now mount the switch housings/switches on either side plate using the existing unused holes in the side plates. Bolts and lock washers are provided to retain these two on each side.

The Black wires are the 12V supply to the switches, the RED are a normally open circuit, that is they have power with the switch in a now depressed or static mode. The Blue wire will have power when the switch is depressed. Choose which type of circuit you need and remove the other colored wires.
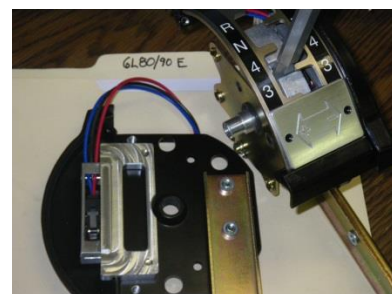
Assemble one of the side plates and the gate plate. Now lay the double arrow logo stop plate on the gate plate to locate where to drill two 3/16" holes to attach the stop plate. Screws and lock nuts are provided for installing this. Finish assembling the shifter and you are ready to start wiring.
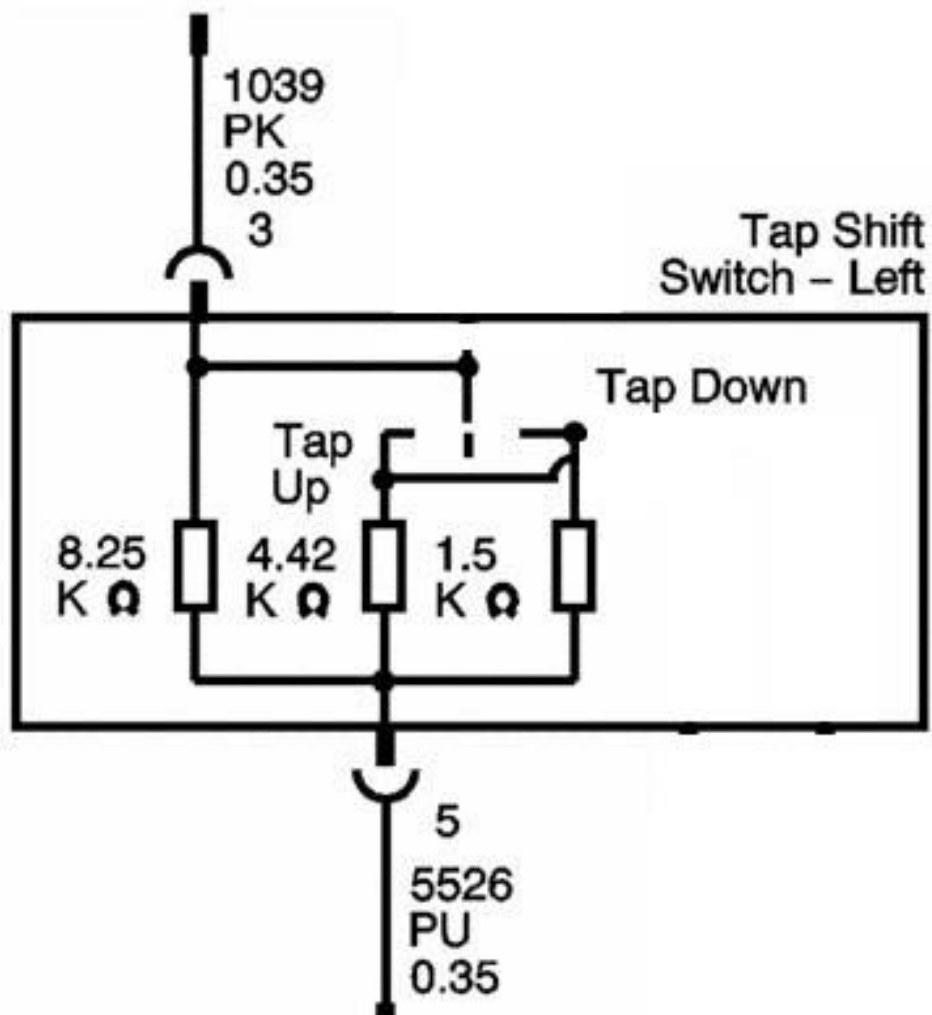

New centering block

Switch plates and centering block installed.

Stop plate location.

12v Ignition?

1039
PK
0.35
3

Tap Shift
Switch – Left

Tap Down

Tap
Up

8.25
K Ω

4.42
K Ω

1.5
K Ω

5
5526
PU
0.35

To Pin #7 on TCM