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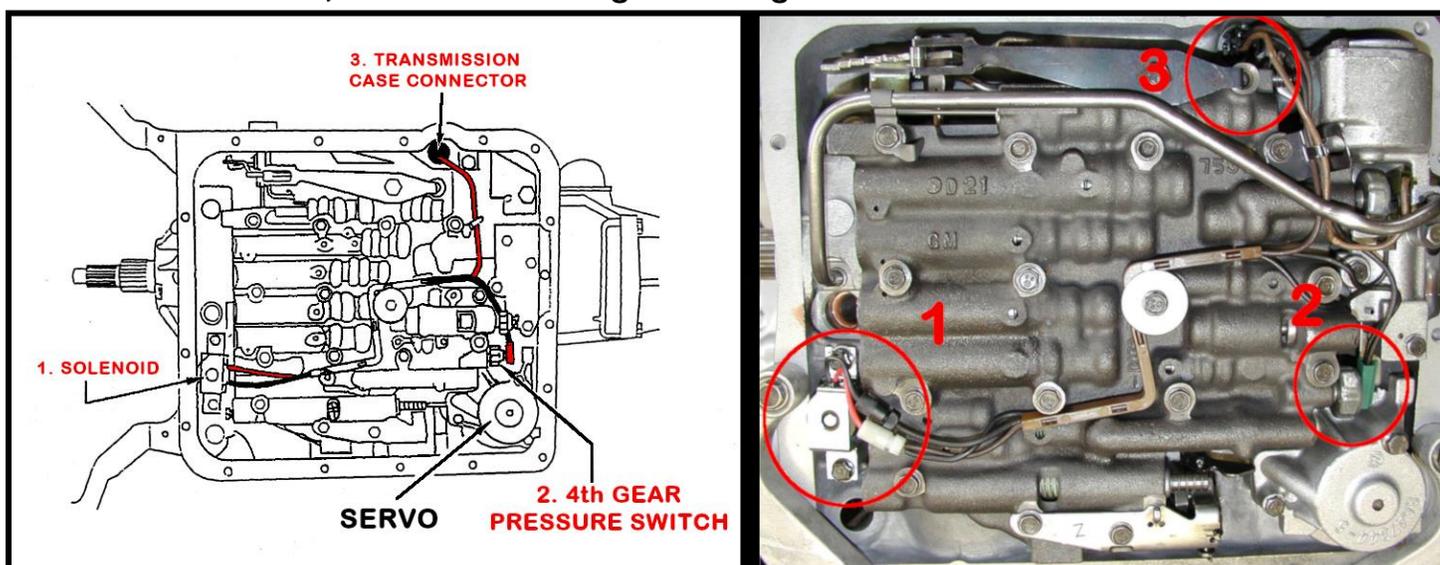
60109

700 R4 TRANSMISSION LOCK-UP HARNESS INSTALLATION INSTRUCTIONS

Your engine must produce at least 5 in.HG vacuum for this kit to work properly.

INSTALLATION INSTRUCTIONS (TRANSMISSION)

1. Drain fluid from transmission and remove pan.
2. Remove filter by gently pulling down on filter. It is a slip fit.
3. Remove the torque converter clutch solenoid and attaching wires. It is held in by 2 bolts.
4. Remove the 4th gear pressure switch (2) and install the new 4th gear pressure switch provided in the kit. This switch is located next to the round servo at the rear corner of the case. Some transmissions use more than one switch so be sure to locate the correct one. All other switches will no longer be used, so remove the original wiring.



5. Install the new clutch solenoid (1) using the same bolts that held in the original solenoid. Attach the single black wire w/ the red connector to the new 4th gear pressure switch.

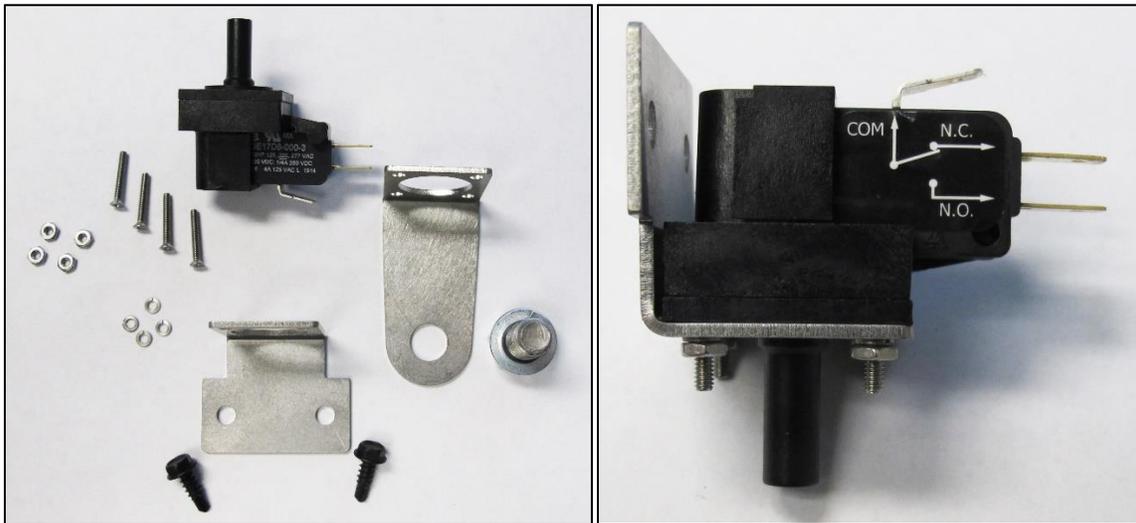
6. Install the new transmission case connector proved in this kit. Attach the single red wire w/ the black 4-way connector to the transmission case connector.



7. Reinstall the filter and oil pan w/ new gasket provided.

NOTE: YOU MAY WANT TO REPLACE THE FILTER AT THIS TIME. FILL THE TRANSMISSION WITH NEW FLUID OF THE CORRECT TYPE.

INSTALLATION INSTRUCTIONS



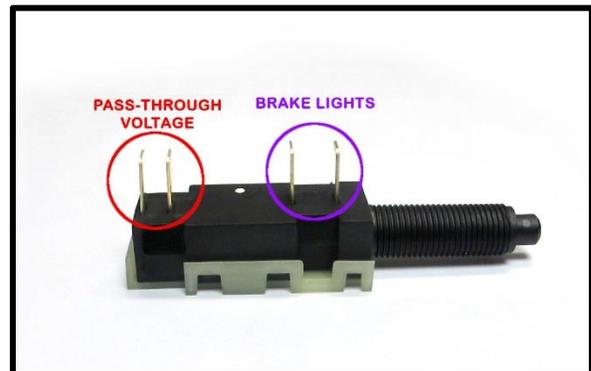
- A. Mount the vacuum switch to one of the supplied brackets, this will require a small philips head screw driver and a 3/16" socket or nut driver. Painless recommends mounting this over a work bench or table as the mounting hardware for the switch is very small and can be easy lost if dropped. The mounting bolt in meant to go through the switch and then through the bracket. The position of the switch on the bracket will be up to the installers preferred orientation.

The longer bracket and supplied bolt will allow mounting the switch to the back of a head or to a 3/8" hole on the intake manifold. The other bracket will allow the switch to be mounted to the firewall using the supplied self-tapping screws.

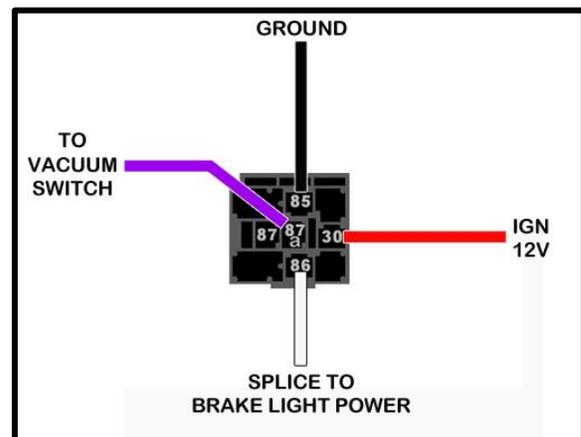
- B. Mount the vacuum switch in the engine compartment. Connect a ¼” vacuum hose to the vacuum switch and then connect the hose to a **ported** manifold vacuum source. Ported manifold vacuum will come from in front of the throttle blade(s) and will only have vacuum when the throttle is opened.
- C. Move to the inside of the vehicle and install the provided brake switch at the brake pedal.

NOTE: If you are using a button style switch with 2 terminals the supplied switch will replace it.

If you have a double switch, like the one provided, already installed for cruise control, then the purple wire of the supplied brake switch connector will be cut from the connector and spliced to the cruise control output wire of your existing brake switch wiring. This will be the wire that losses power when the brake is applied.

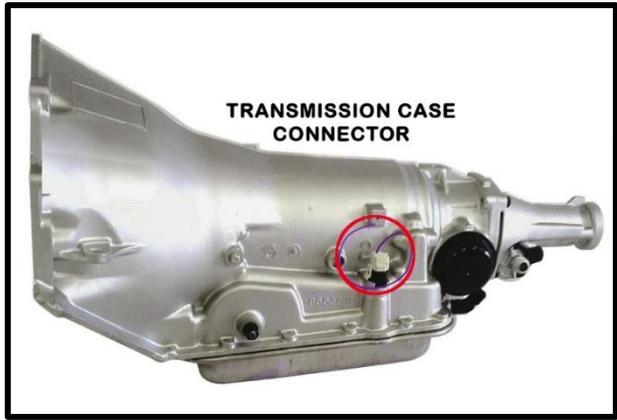


If you are using a hydraulic pressure switch, a bracket will be needed to mount the switch so when the pedal is up the switch is fully depressed or a relay will need to be installed. If the relay is wired as shown, the purple wire will receive power from pin 30 via 87a. As soon as the brake is applied, power will be sent to pin 86, this will activate the relay, opening the connection between pins 30 and 87a.



- D. Route the red wire from the brake switch to a (20 amp) fused ignition power source. This power source needs to only have power when the key is in the “on/run” position.
- E. Route the purple wire from the brake switch out into the engine compartment to the vacuum switch. Cut the wire to length, strip ¼” of insulation, and install one of the supplied insulated terminals. Connect this terminal to either the “COM” (common) or “N.O.” (normally open) tab; it doesn’t matter which one.

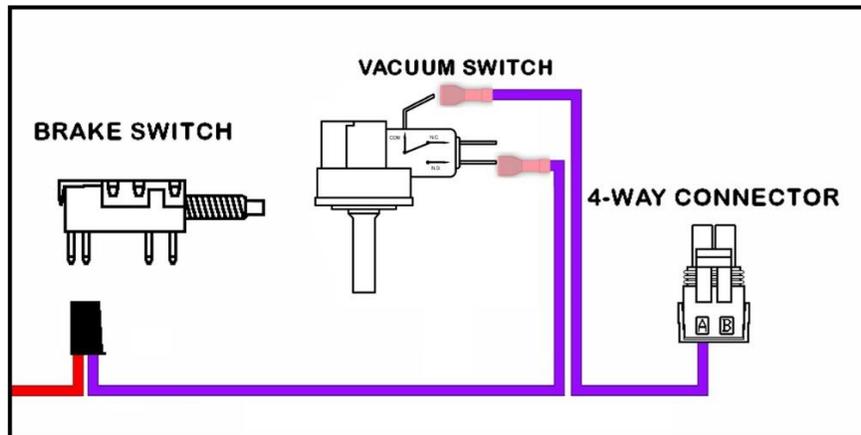
F. Route the purple wire with the white 4-way connector down to the transmission and plug into the factory plug located above the pan on the driver's side of the case.



G. Route the purple wire from the transmission to the vacuum switch. Cut the wire to length, strip 1/4" of insulation, and install one of the supplied insulated terminals. Connect this terminal to either the "COM" (common) or "N.O." (normally open) tabs; whichever one you did not connect to previously.

H. Test drive the vehicle. The transmission should shift into overdrive and lock the converter at about 40-45 m.p.h. the gear ratio of your differential will determine lock up speed. If the converter locks up early, check to make sure you are connected to ported manifold vacuum, as explained in step B.

I. If you encounter a constant lock-unlock situation in city traffic a vacuum valve (standard ignition #dsv31) may be installed in the vacuum switch hose to correct the problem. If valve dsv31 is used be sure to put the arrow or the direction of flow towards the vacuum switch.



**Painless Performance Limited Warranty
and Return Policy**

Chassis harnesses and fuel injection harnesses are covered under a lifetime warranty.

All other products manufactured and/or sold by Painless Performance are warranted to the original purchaser to be free from defects in material and workmanship under normal use. Painless Performance will repair or replace defective products without charge during the first 12 months from the purchase date. No products will be considered for warranty without a copy of the purchase receipt showing the sellers name, address, and date of purchase. You must return the product to the dealer you purchased it from to initiate warranty procedures.