



## Installation Instructions

# 2004R LOCK UP CONTROL MODULE

Thank you for purchasing the 2004R Lock Up Control Module. At Bowler Performance Transmissions we bring you the highest quality product, with the simplest installation. Our electronics were developed to the standards of the U.S. Military, and are packaged in an epoxy coated module with the lock up connector built into it.

**Important:** Do not attempt this installation on a hot transmission!

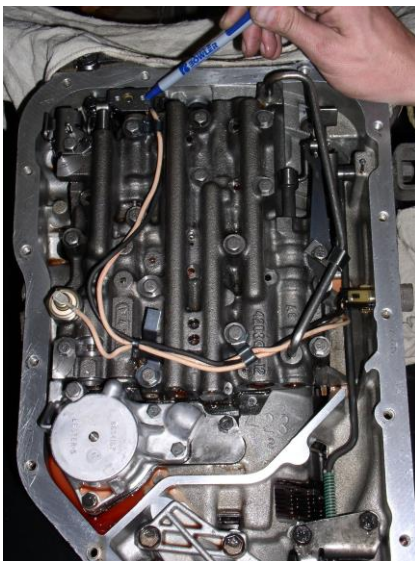
### Step 1:

You will need to drain the transmission pan. Loosen the pan bolts starting at the rear of the pan and work around to the front. Leave at least 2 bolts at the front loose. This will help hold the pan at an angle, to drain the fluid.

**Note:** You can reuse transmission fluid if no contamination occurs.

### Step 2:

After removing the pan, you will remove and replace your existing lock up solenoid by removing two 10mm bolts, and installing supplied 13mm studs in the case. (Photo 1&2)



(Photo 1)



(Photo 2)

Step 3:

Install supplied solenoid so it clears the valve linkage. Make sure the angle cut side is towards linkage. With nuts supplied tighten to 6ft lbs. (Photo 3)



(Photo 3)

Step 4:

Remove the existing fourth gear pressure switch located on the back of the valve of the valve body on the passenger side, and replace with supplied pressure switch. **Note: If there are other pressure switches do not remove or connect any wires to them, they are no longer needed, but can result in transmission failure if removed.** (Photo 4)



(Photo 4)

Step 5:

Install the black square connector into the pass through connector in your case. Next you will install the single connector to the fourth gear pressure switch.

**Note: Make sure lock tab locks when pressed into the connectors. This will be your wiring route.** (Photo 5)



(Photo 5)

Step 6:

Install the new supplied transmission filter. Ensure the pan and pan rail is clean and free from any old gasket or gasket maker. Re-install the pan with the new supplied gasket; re-fill the transmission with DEXTRON II Transmission Fluid.

*Note: Pan bolts torque to 8ft lbs.*

Step 7:

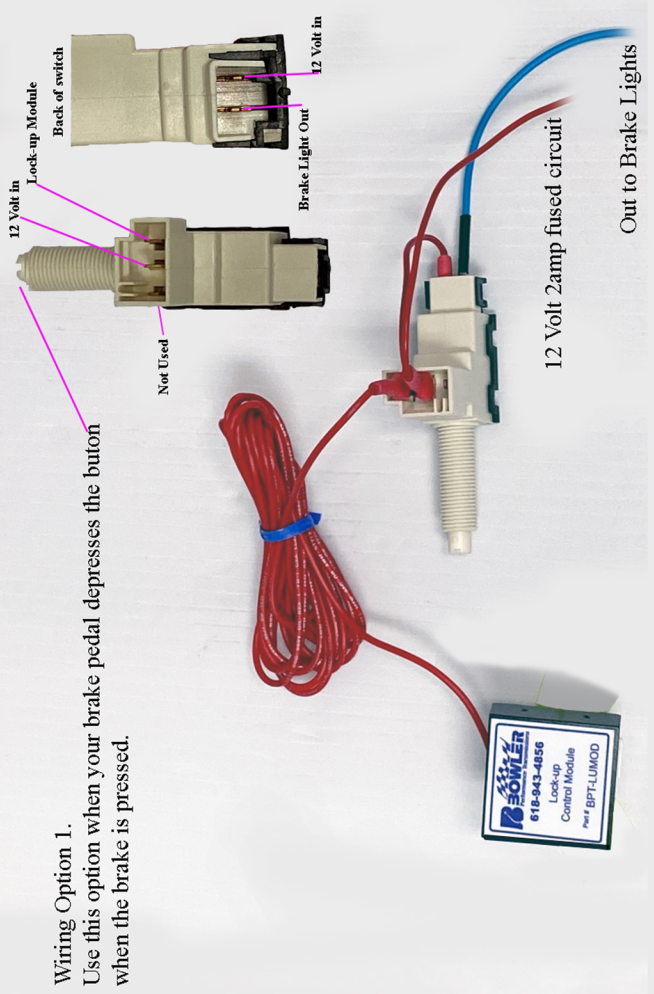
Plug the control module and connector into the pass-through connector on the outside of the transmission. Run the red wire to a fused keyed hot terminal or to the included brake switch. *Note: at least 2 amps. (Photo 6)*



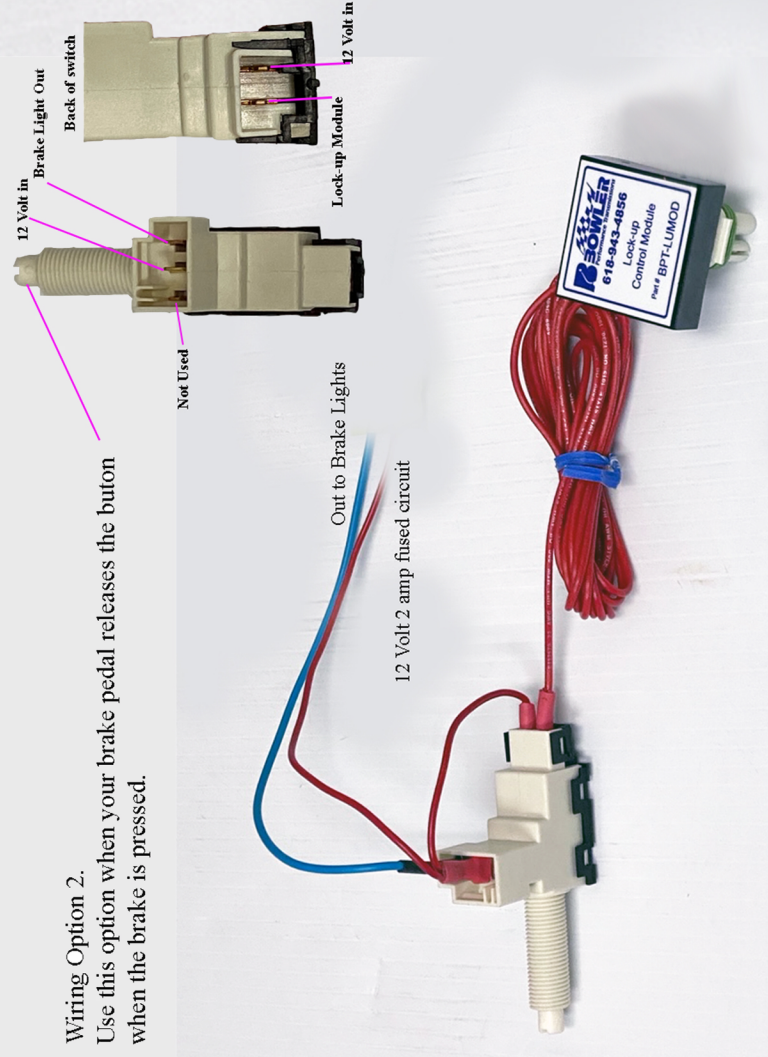
*(Photo 6)*

The box is preset to turn lockup on 8-11 seconds after the transmission shifts into 4<sup>th</sup> gear. This gives you a better feel to 4<sup>th</sup> gear and isn't as hard on the lock up clutch inside the torque converter. This allows your engine to build up adequate RPM before going into lock-up, eliminating lock-up stacked on top of 4<sup>th</sup> gear, reducing engine lug giving your vehicle better performance and fuel efficiency. The converter will automatically unlock when the transmission shifts down from 4<sup>th</sup> to 3<sup>rd</sup>.

**Bowler Performance Transmissions Inc. (618) 943-4856**



**Wiring Option 1.**  
Use this option when your brake pedal depresses the button when the brake is pressed.



**Wiring Option 2.**  
Use this option when your brake pedal releases the button when the brake is pressed.

**WIRING DIAGRAM FOR VEHICLES USING A PRESSURE STYLE 2 PRONG BRAKE SWITCH. O'REILLY PART NUMBER R3177. NOT INCLUDED IN KIT.**

