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25-120 – Harness Adapter 9/30/16

4L60E to 4L80E Harness Hookup (99-06 Gen III Engines)

For over 45 years our goal has been to provide racers and enthusiasts with reliably engineered, U.S. manufactured, torque converters and drive train components for your high performance application. *Before you start your build, please take a few moments to review the important Product Safety Information and installation steps set out within this instruction manual.* If you still have questions; Hughes Performance® technical team is here to help: (1-800-274-RACE).

Important Product Safety Information

Throughout these instructions important safety information is generally preceded by one of three signal words indicating the relative risk of injury. The signal words mean:

! WARNING a hazardous situation which if not avoided could result in death or serious injury. **You CAN be Killed or Seriously Injured if you do not follow instructions.**

! CAUTION a hazardous situation which if not avoided could result in minor or moderate injury. **You CAN be moderately INJURED and also may suffer property damage if you don't follow instructions.**

NOTICE careful attention is required to follow this installation instruction or operation but does generally not relate to personal injury. Damage to your product or other property may result if you do not follow instructions.

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! WARNING: Improper selection of Hughes Performance® products, failure to follow installation instructions and/or misuse increases the risk of injury or accident. For your safety and the safety of others:

- Assure the Hughes Performance® product selected is intended for your application with an additional safety margin above your expected horsepower, torque, and intended usage of product and vehicle.
- These instructions are not intended to address all risks related to modification of your vehicle or use. Remember: *you are the builder and chief safety engineer for your modified vehicle.* Consult and follow all OEM warnings and operating limitations.

(For Calif. Residents-Prop. 65):

! WARNING

This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

(for more information on Prop. 65 see www.P65Warnings.ca.gov/product)

To reduce risks: work with gloves, safety glasses, wash hands before eating, and dispose of any fluids properly.

! WARNING: Use protective eyewear and gloves. If dusty, use face mask, wet and wipe clean working surfaces. Transmission fluids and cleaning products are highly flammable! Avoid open flame, welding sparks, smoking, or other sources of ignition. Flexplate, torque converter, and transmission assembly involves heavy parts and pinch points. Use support jacks and review installation steps before attempting.

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NOTICE: The main wiring harness from the 4L60E plugs onto the adapter harness, and then the adapter harness is plugged into the 4L80E transmission.

The other wiring is for the Input Speed Sensor (ISS) located on the side, towards the front of the 4L80E transmission. Plug the connector into the ISS and then route the two wires to the ECM. On the PCM RED connector (GREEN on 2003 and newer PCM's), the red wire goes into position 22, the blue wire goes to position 23.

NOTICE: After removing the gray harness cover from the ECM connector the wire position numbers are visible on the back surface. The red colored terminal cover must be removed to install the new wires. This is done by gently pushing in the retainer clips on each end of the red terminal cover while lifting on the red cover. After the new wires are installed, reverse the procedure and bolt the connector back into the ECM.

ECM / TCM reprogramming is required to properly control the 4L80E transmission after making this modification.

Note: ECM = Electronic Control Module
TCM = Transmission Control Module