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P/N: AS-6455

GM 4L80E AUTOMATIC TO ATLAS 4 SPEED 2.75" ADAPTER

KIT CONSISTS OF:

No.	Qty	Part No.	Description
1.	1	51-6450	ADAPTER HOUSING
2.	1	716511	O-RING
3.	6	720020	10MM X 1.5 X 30MM
4.	1	300619	SENSOR
5.	1	300617	RELUCTOR
6.	3	300617A	1/4-20 SET SCREWS

The index hub diameter is 4.800". This casting will only work with the 4L80 4WD output shaft and the 4L80 slip yoke output shaft. The slip yoke output shaft must be shortened to work with our casting.

4WD 4L80 OUTPUT SHAFT GM# 24204291

SLIP YOKE OUTPUT SHAFT GM# 24204289

GM 4L80E 4 SPEED AUTOMATIC OVERDRIVE- BACKGROUND INFORMATION

The GM 4L80E has a case length of 26" and has 17 bolts for retaining the oil pan. The rear side of the transmission case will have a hex shaped bolt pattern that uses 6 bolts. There are several different lengths of output shafts that the transmission has been equipped with, but **THIS KIT REQUIRES A 4WD OUTPUT SHAFT.**

The 4L80E transmission is normally equipped with an internal reluctor ring on both the transmissions input shaft and output shaft. The computer needs both of these readings for the proper shifting and operation of this transmission. The rear reluctor ring is not always installed into the transmission. The basic rule of thumb is 4WD transmissions up to 1996 should have a rear reluctor ring in the main transmission case. All 2WD transmissions should have the rear reluctor in the main transmission case. The 1997 & newer 4WD 4L80E transmissions had a sensor provision; however, the reluctor ring in the transmission was left out. Since it is expensive to disassemble the transmission to add a reluctor ring, this kit has a vehicle speed sensor built in that can be used in place of the 4L80E Output Shaft Speed Sensor.

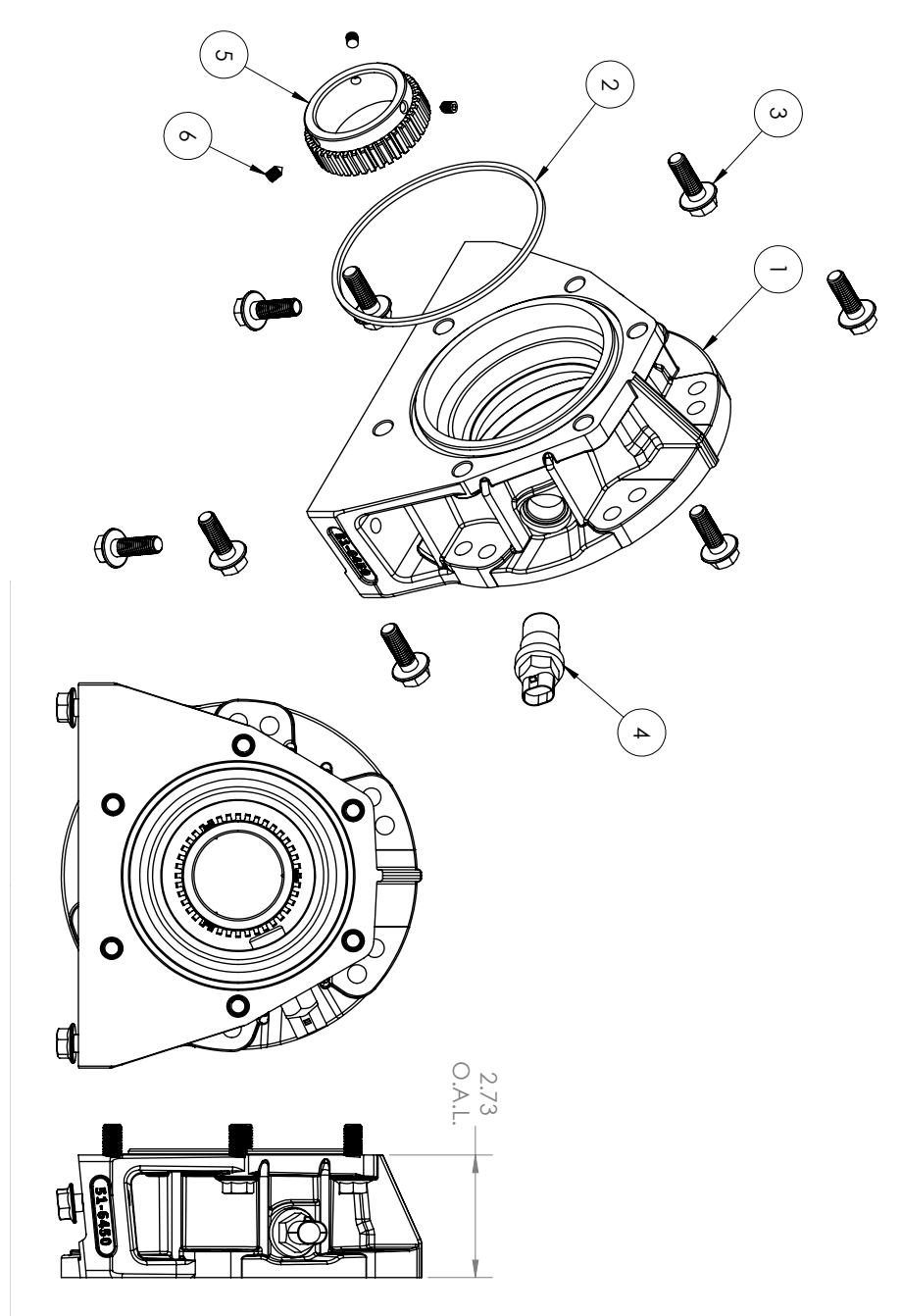
Note: The information on years and models of the 4L80E transmission mentioned in the above section is obtained from various sources. You should always verify what your transmission is equipped with before beginning a conversion with the 4L80E transmission.

INSTALLATION

1. Determine the correct transfer case rotation for your application and then bolt the 51-6450 casting to the Atlas.
2. Install the reluctor on the Atlas front input aligning the sensor hole in the adapter with the center of the reluctor ring and then lock in place with blue loclite on the 3 set screw and retaining compound loctite 609 .
2. The sensor needs to be installed into the 51-6450 casting. Using a feeler gage, check the clearance between the sensor tip and top of the teeth on the reluctor ring. This clearance should be 0.012" +/- 0.002". This clearance may be adjusted slightly by adjusting torque used to snug the sensor. The transmission will not shift correctly if this tolerance is not correct.
3. Bolt the 51-6450 casting to the rear of the 4L80E using the new bolts. Make sure that the 4L80E output shaft and the Atlas input shaft do not bottom out. **DO NOT FORCE THE ADAPTERS TOGETHER.** If assistance is needed, please feel free to call the phone number listed above.

SPECIAL NOTE: The components packaged in this kit have been assembled and machined for specific type of conversions. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand modifications or changes that will be required to complete your conversion, we strongly recommend that you contact our sales department for more information. This instruction sheet is only to be used for the assembly of Advance Adapter components. We recommend that a service manual pertaining to your vehicle be obtained for specific torque values, wiring diagrams and other related equipment. These manuals are normally available at automotive dealerships and parts stores.

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