

FORD 6R80 TO ATLAS 31 SPLINE INPUT (SHORT 31 IS REQUIRED)

KIT CONSISTS OF:

No.	Qty	Part No.	Description	
1.	1	51-3900	ADAPTER- 6R80 TO ATLAS	The 6R80 Gear ratio's
2.	1	716111	DOWEL/ ALIGNMENT PIN FOR THE 6R80	4.17:1 first 2.34:1 second 1.57:1 third 1.14:1 fourth .87:1 fifth .69:1 sixth

The 6R80 can be found behind the 3.7L V6 up to the 6.2L V8 from 2009 to current. The 6R80 weights about 215 lbs and is built for 590 ft lbs of input torque.

Ford upgraded the 6R80 to a new 10 speed in 2017 and the new transmission shares the same bolt pattern and output spline as the 6R80 transmission. The new 10R80 is adaptable with this same adapter kit.

Our adapter kit works with the 4WD transmission version only. The new adapter kit uses the factory bolts to fasten the adapter to the transmission. Note, make sure you install the one bolt located at 6 o'clock. The Atlas must be equipped with a 31 spline input. The casting does not use our standard 31 spline input. It uses a shorter 31 spline P/N 300110A or assembly A31S. If you have an Atlas with a longer 31 spline input, you can shorten it to fit the transmission application.

The crossmember rubber mount that fits this casting is our P/N 716655, if this is being installed into a Ford Bronco we offer a complete crossmember support to the frame rails P/N 716040.

Note: when installing the Atlas in a Ford Bronco, the shift kit for the Atlas 4 speed is recommended. The shifter kit has a longer assembly that works well with the length of the transmission. The shifter part number is 344004.

The factory transfer case that was coupled to the 6R80 used a alignment pin that was a snug fit on the transfer case housing and a loose fit into the back of the transmission. We have included a alignment/dowel pin that should be a snug fit into our adapter housing which is the same as Ford used.



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.