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PAGE 1 OF 3 Page Rev. Date: 02-06-20  
P/N: 50-2704

## LATE MODEL 4 SPEED AOD FOR BRONCO DANA 20 T/C 1966-76

### KIT CONSISTS OF:

No.	Qty	Part No.	Description
1.	1	51-2703	ADAPTER HOUSING
2.	1	52-0209	SPUD SHAFT 23 spline (old shaft was 52-2704)
3.	1	52-2706	MAIN SHAFT W/23 SPLINE OUTPUT
4.	2	716042	CROSSMEMBER SLEEVES
5.	1	716223	RETAINER
6.	1	716312	BEARING
7.	1	716455	SNAP RING
8.	1	716513	GASKET
9.	1	716713	SEAL
10.	1	716714	O-RING
11.	1	714206	AOD BOLT PACK
12.	6	723711	STUD BOLT 3/8 -16 X 2 LG B7

### OPTIONAL ITEMS:

P/N 716057 AOD Shaft Kit to fit an AODE Transmission

The transmission oil pan may require some clearance modifications for the front drive shaft. This is only on the truck style transmission pan

**Note:** The spud shaft and main shaft in this kit were changed 10/1/2014 to a 23 spline, they were 27 spline in all kit sold previous to this date.

Transmission main shafts: The new main shaft is manufactured in-house. We have cleaned the internal oil holes of this shaft, however, before installing the oil holes should be double checked for debris.

### **Atlas installation when replacing the Bronco Dana 20 and using this adapter kit:**

The output shaft in this kit is 23 spline, P/N 300012A is a long 23 spline input that needs to be installed in the Atlas. You will also need 300107A Atlas to Bronco pattern adapter plate with (6) of the 723731 bolts. This application will allow 1.5" of spline engagement.

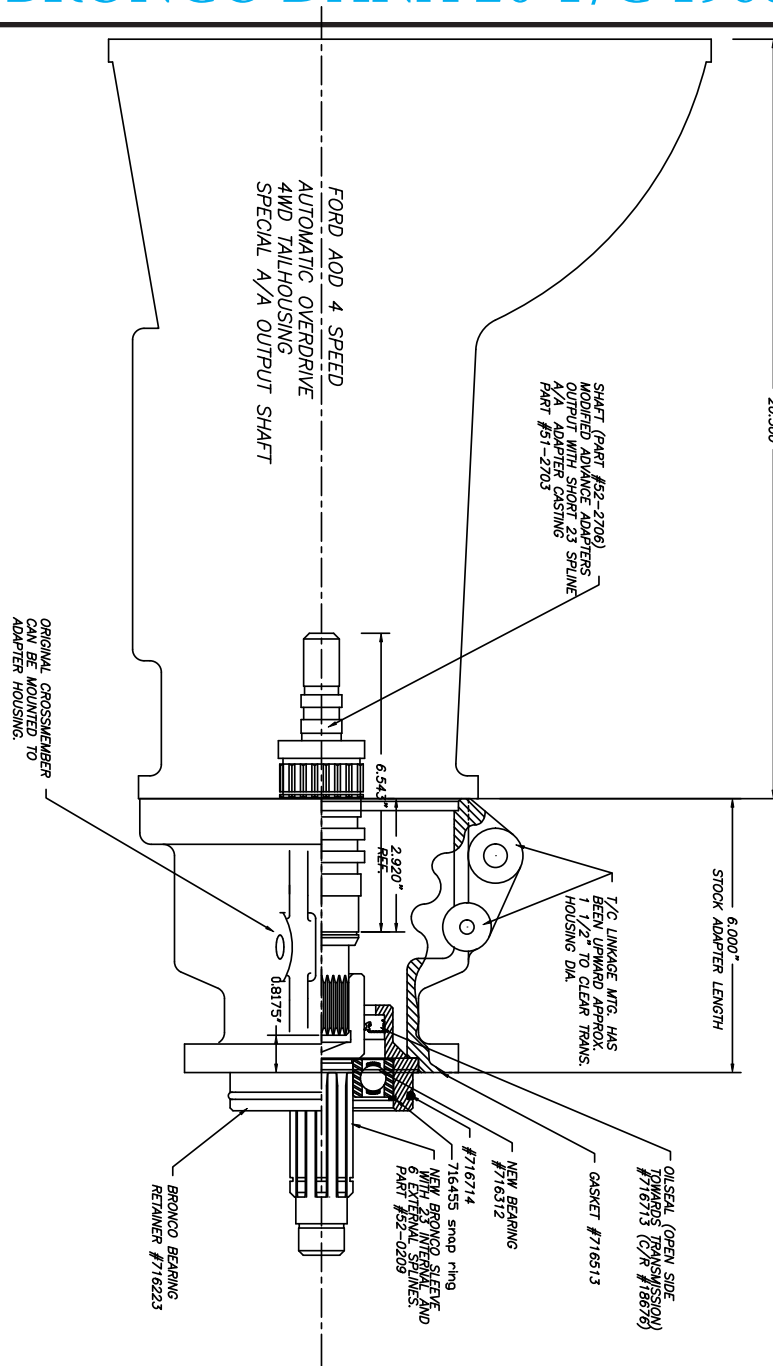
### GENERAL INFORMATION:

1. This transmission assembly is 26-1/2" overall in length is 1.750" longer than the early Bronco drivetrain assemblies. The original V8 drivetrain assembly is normally 24.750" and there will only be approximately 1-3/4" of a difference. The U-shaped shifter pattern used on the later model Bronco transfer cases may not be compatible with this adapter housing. You will need to either modify the mounting or change to the earlier model shifter pattern that had a straight design. This requires new shift rails to be install in the transfer case.
2. The crossmember support that we have provided on the bottom of the new adapter housing is very similar to the original support bracket. It may be necessary to modify the donuts and bolts in order to assemble the existing crossmember to the new adapter housing.

This kit has been designed to retain the stock Bronco rubber T/C mounts. These mounts were previously equipped with a 1/2" bolt. Our casting has been drilled and tapped for a 7/16" bolt. We have supplied this kit with the necessary sleeves, washers, and bolts to properly secure this adapter.

**SPECIAL NOTE:** The components packaged in this kit have been assembled and machined for a specific type of conversion. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand the 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. Always inspect parts prior to installation for consistency with the OEM offering (e.g., spline count, tooth count, lubrication points, etc.).

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**NOTES:**

*In order to mount the new adapter housing into the original Bronco crossmember, you will need to modify the crossmember for additional clearance. The new adapter housing is wider and will require a slight elongation on the bushing index holes of the crossmember.*

*In order to provide the clearance around the bottom part of the adapter, we would suggest that you section a small portion of the crossmember as shown in the illustration. This small portion can then be relocated and rewelded as illustrated.*



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