

ADVANCE ADAPTERS INC.

P.O. Box 247, 4320 Aerotech Center Way

Paso Robles, CA 93447

Telephone: (800) 350-2223 Fax: (805) 238-4201

P/N: 50-4303

New Item: (01/02)

PAGE 1 OF 2

Page Rev. Date: 11-13-07

ZF TRANSMISSION TO BRONCO DANA 20

KIT CONSISTS OF:

<u>No.</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1.	1	51-9920	SPECIAL DANA 20 ADAPTER PLATE
2.	1	52-4303	SPECIAL SPUD SHAFT 31T INTERNAL
3.	1	715544	SHIFTER LINKAGE BRACKET
4.	1	715544B	TRANSFER CASE PIVOT BOLT
5.	1	716223	BEARING RETAINER
6.	1	716302	SEALED BEARING
7.	1	716455	SNAP RING
8.	1	716513	GASKET
9.	1	716517	GASKET
10.	1	716714	"O" RING
11.	6	723704	3/8" LOCK WASHERS
12.	4	723722	3/8"-16 x 1-1/4" LONG H.H.C.S.
13.	2	723723	3/8"-16 x 1-1/2" LONG H.H.C.S (SHIFTER BRKT BOLTS)
14.	6	723729	3/8"-16 x 1-3/4" LONG S.H.C.S.
15.	1	726207	PIVOT BOLT FLAT WASHER

NOTE:

This adapter will only work with the "T" style shifter. If your vehicle has a "J" style, it will need to be replaced

INSTRUCTIONS:

This kit is supplied with a new spud shaft, and sealed bearing. These components will need to be installed into our alignment retainer along with the stock Bronco Dana drive gear. Make sure all snap rings are in place. Install the O-ring on the retainer along with a small amount R.T.V. Blue silicone, and then install the retainer to your transfer case. Bolt the adapter ring to the Dana 20 using the (6) S.H.C.S. bolts. Rotate the spud shaft to check for proper installation.

When assembling the transmission to the transfer case, **DO NOT FORCE** the two gear boxes together. If the shaft is too long, there is the possibility of pre-loading the transmission bearings, causing premature failure. Take extra time to make sure that the shafts do not bottom out internally. If there is any interference problem, it may be necessary to grind the end of the new output shaft to obtain the proper length.

A shifter bracket has been provided for a "T" style T/C shifter handle. The stock tailhousing of the ZF transmission must be modified to fit our bracket. Our bracket will require some of the aluminum webbing to be ground off on the left side to fit the bracket; and it may also require some additional grinding to fit the "T" handle linkage. Before installing your transmission and transfer case assembly into your vehicle, modify the tailhousing to fit of this linkage and bracket. The transfer case shifter handle and the ZF shifter handle may be too close together on some applications. The ZF handle may require a small bend to clear the transfer case shifter handle.

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.

ADVANCE ADAPTERS INC.

P.O. Box 247, 4320 Aerotech Center Way

Paso Robles, CA 93447

Telephone: (800) 350-2223 Fax: (805) 238-4201

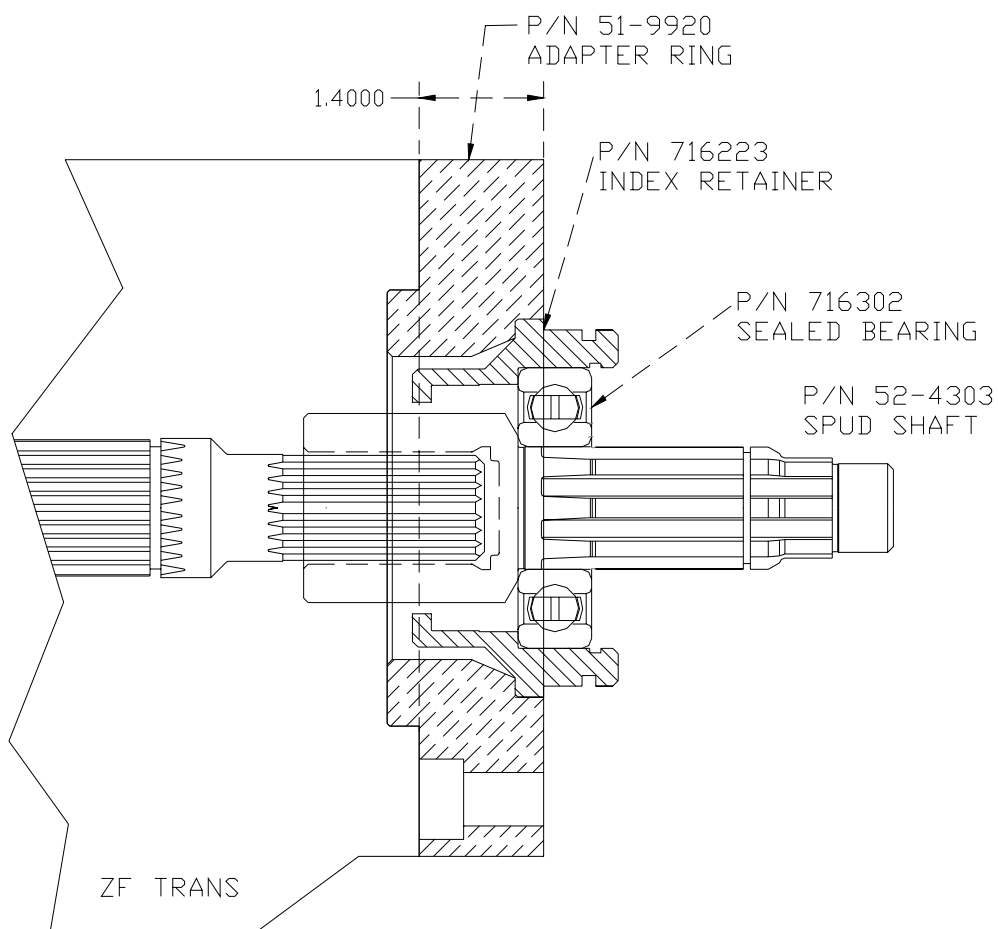
P/N: 50-4303

New Item: (01/02)

PAGE 2 OF 2

Page Rev. Date: 11-11-02

ZF TRANSMISSION TO BRONCO DANA 20



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.