

## DODGE & GM NP205 T/C (fig 8 pattern) to NV4500 29 spl. TRANSMISSION

### KIT CONSISTS OF:

No.	Qty	Part No.	Description
1	*1	340407	SNAP-RING EXT INPUT GEAR NP
2	1	51-0206	ADAPTER- NV4500 TO NP205 T/C
3	*1	52-9600	GEAR- NP205 INPUT 46T
4	*1	52-9601	SHAFT- NP205 INPUT 29T
5	1	715529	BRACKET- LINKAGE NV4500 TO NP205
6	1	716056	SPACER- NV4500/NP205 CROSSMEMBER TUBE
7	*1	716315	BEARING 6210-T/C INPUT GEAR BEARING
8	*1	716467	SNAP RING-EXTERNAL 1 15/16
9	1	716574	GASKET-73-79 NP205 LARGE BORE
10	1	716729	SEAL CR#19466
11	6	723704	LOCK WASHER 3/8 ZINC
12	6	723723	H.H.C.S. 3/8 -16 X 1-1/2 gr. 5 zinc
13	8	723730	BOLT 3/8 -16 X 1.25" SHCS ZNC
14	6	723735	WASHER 3/8 SAE FLAT PLT
15.	1	725603	NUT-SERRATED FLANGE 9/16 -12 PLATED (Nut for T/C pivot bolt)

\* items need to be assembled

Note: The stock oil seal in the NV4500 tailhousing must be removed.

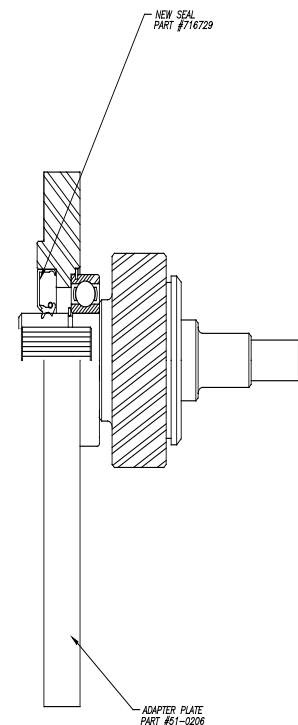
### SPECIAL INSTRUCTIONS:

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 for premature failure. Take the extra time to make sure that the shafts do not bottom out internally. If there is an interference problem, it may be necessary to grind the end of the new output shaft to obtain the proper length.

This kit is designed for the Dodge 23 & 29 or GM 10, 27 or 32 spline T/C's. This kit will replace the standard input spline input with a new female 29 spline input to match the NV4500 male 29 spline output shaft.

The transfer case will require some disassembly of the front input to install the new gear assembly and a machine operation for the new larger bearing.

NP205 Machine Mods when replacing a 23, 10 or 27 spline transfer case. The NP205 bearing bore must be machined to accept the larger 210 bearing of 3.543". This is an important part to get this new bore in the correct location. A machine shop should first index the transfer case bore to find center on the current bore, and then bore the larger bearing diameter. The new adapter plate will retain the bearing once the plate is installed.



**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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This kit has been modified to clear a portion of the shift rail; however, the stock Dodge NV4500 tailhousing must be modified for the shift rail clearance also. The 1" adapter plate can be used as a template to mark the notch needed in the Dodge tailhousing.

1. Align U-shaped notch of adapter with rearmost cylindrical boss of tailhousing, keeping in mind that the tailhousing's bolt pattern aligns with the adapter's tapped hole bolt pattern. Once aligned, transfer outline of notch to tailhousing with felt tip marker.
2. Take a 1/4" drill bit and wrap a piece of tape around bit 1" from the tip. This serves as a depth gauge. With a hand drill or drill press, drill as many holes in the outlined area as possible.
3. With a cold chisel, knock out the remaining material. With the shift rods in the fully extended position, make a trial fit of components to ensure that the pocket depth is enough to clear shift rods and cross link.
4. The new oil seal needs to be installed into the front of the NP205 transfer case. The new gasket should fit the NP205 and then the adapter plate bolted to the NP205. When you are ready to install the adapter plate to the NV4500 tailhousing, RTV silicone should be used between the mating surfaces.



5. The stock Dodge tailhousing bolt pattern will not line up on the 6 holes on the adapter plate. As you modify the Dodge housing for the linkage clearance, you will see that the two holes closest to this cut out do not line up with the Dodge tail. They have been moved on our plate for clearance on the NP205 pattern on one and just linkage on the other. Two clearance holes on the stock tailhousing need to be drilled. These holes in the Dodge tailhousing can be oversized as the casting are indexed together and the bolts are only to hold the parts tight.

5. The transfer case mounting plate, Part No. 715529, mounts to the top cover and provides a hole location for mounting the handle in similar location. The bracket has been manufactured to ways over the years. One has the threads tapped into the bracket and the other uses the 725603 nut. The link to the shift rails may need to be modified to fit correctly. This bracket is designed for the GM handle and linkage only.

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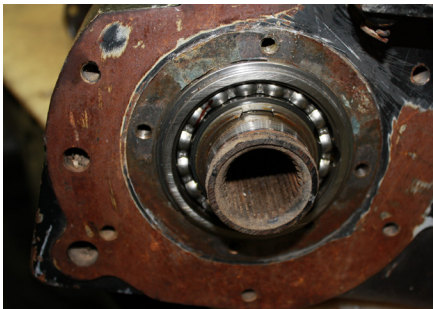
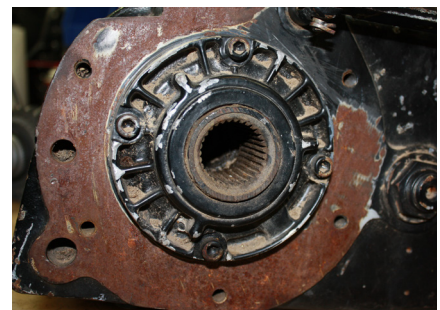
## DODGE & GM NP205 T/C (fig 8 pattern) to NV4500 29 spl. TRANSMISSION

1	1	340407	INPUT GEAR SNAP RING
2	1	52-9600	GEAR- NP205 INPUT 46T
3	1	52-9601	SHAFT- NP205 INPUT 29T
4	1	716467	SNAP RING-EXTERNAL 1 15/16
5.	1	716315	T/C INPUT GEAR BEARING

All parts are assembled at Advance Adapters.

When replacing a NP205 male input 10, 27, or 23 spline, the NP205 case will require machining for the larger input bearing bore.

Photos shown are of a Ford T/C. The installation on the new gear is the same on all models of T/C's



Remove the tailhousing bolts and front retainer bolts (if your transfer case has a front retainer). Shift the transfer case into 2WD high range and remove the tailhousing from the transfer case. Once the T/C output is removed, shift the T/C into low range which will release the slider. Remove the snap ring from the shaft to the bearing so the shaft and the bearing can be separated. This will allow the gear to drop downward and clear the shift fork.

Once the old gear and bearing are removed, clean the bore of the case and get ready to reassembly the new gear assembly.

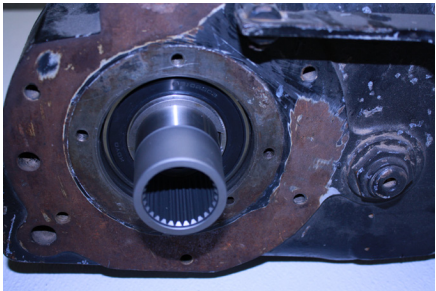
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The new gear comes assembled with the outer bearing snap ring pulled off the bearing. From the back side of the transfer case install the gear and bearing into the case. The gear gets assembled at an angle to clear the shift fork. Slide the bearing and gear up to meet the case bore. The bearing should slide into the case bore enough to align everything, you can tap the back of the gear with a rubber mallet to get the bearing fully installed. Note the bearing should come out the front of the case and expose the snap ring groove.



The slider ring of the NP205 will need to be installed back onto the shift fork in low range and then the transfer case needs to be shifted into high range. During this procedure be careful of your fingers as you need to line the slider with the gear drive teeth. Once the gear and slider are supported together you will need to install the front bearing snap ring. This will retain the gear in the proper location in the case. The snap ring can be started in the bearing groove with your thumb and then just working it into place with your other hand until it spirals into place. With the rubber mallet tap the front of the gear assembly to set the bearing and snap ring against the case.

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