

MANUAL TRANSMISSION - NV4500

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MANUAL TRANSMISSION - NV4500

DESCRIPTION

The NV4500 is a five speed constant mesh manual transmission. All gear ranges including reverse are synchronized. Fifth gear is an overdrive range. The transmission has a cast iron gear case and aluminum shift cover.

Two versions are used, a standard duty for 5.7L applications and a heavy duty for V10 and Cummins diesel applications. Main difference is a larger diameter input shaft for the heavy duty model.

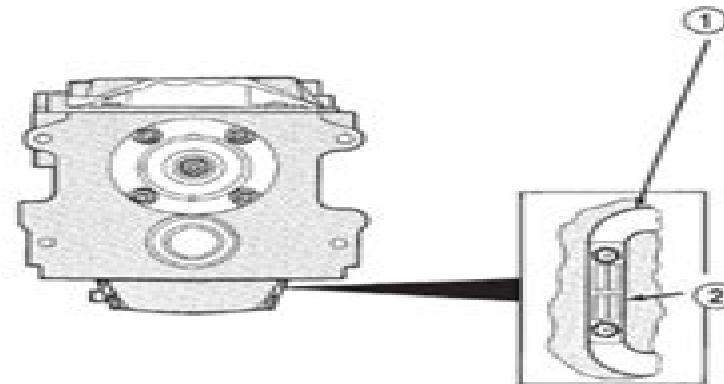
Tapered roller bearings support the drive gear, mainshaft and countershaft in the gear case. Roller bearings in the drive gear support the forward end of the mainshaft. The mainshaft gears are all supported on caged type roller bearings. Drive gear thrust reaction is controlled by a needle type thrust bearing. The bearing is located at the forward end of the mainshaft.

The transmission is a top loader style. The shift lever is located in a shifter tower which is bolted to the shift cover and operates the shift forks and rails directly. The shift forks and rails are all located within the aluminum cover which is bolted to the top of the gear case.

IDENTIFICATION

The transmission identification tag is attached to the driver side PTO cover (Fig. 1).

The tag provides the transmission model number, build date and part number. Be sure to reinstall the I.D. tag if removed during service. The information on the tag is essential to correct parts ordering.



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Fig. 1 IDENTIFICATION TAG LOCATION

1 - PTO COVER
2 - ID. TAG

OPERATION

The manual transmission receives power through the clutch assembly from the engine. The clutch disc is splined to the transmission input shaft and is turned at engine speed at all times that the clutch is engaged. The input shaft is connected to the transmission countershaft through the mesh of fourth speed gear on the input shaft and the fourth countershaft gear. At this point all the transmission gears are spinning.

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