



Up To Standards

by Mike Weinberg
Contributing Editor

It seems that the car manufacturers are having a contest to see how many different transmission designs they can bring to market. In the high-stakes competition for marketshare and the explosion of more sophisticated technology, the transmission rebuilder is finding it difficult to even identify units so that the correct parts can be ordered. It is obvious that you must know exactly what unit you are working on in order to get the right parts and the correct prices to sell the customer what he needs. This article will address the Toyota truck transmissions from 1979 through 1988. You will find more than 16 variations of gear boxes in the Toyota truck line for those years.

As you can see from the chart in Figure 1, there is lots of variety, but it doesn't have to be hard to identify the units if you know the secret. Here it is. You cannot order parts for Toyota vehicles without the following information: The VIN number, production date (found on tag on door), engine type and size, transmission and vehicle model (found on ID tag on firewall). The charts below will help you understand the codes contained in the VIN and ID tags on the firewall.

Too Many Transmissions (Or, You Have To Know What You're Working On)

Figure 1

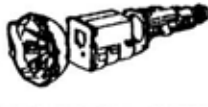

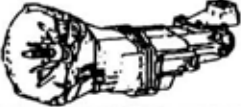

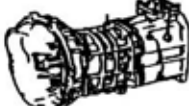
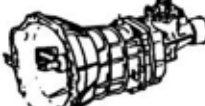
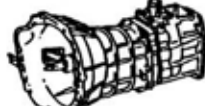
	L43 1979-1980 4 sp 2WD & 4WD.....
	L45 1981 - 1983 4 sp 4WD L48 1981 - 2/82 4 sp 2WD..... L52 5 sp 1981 THRU 1983 4WD..... L52 5 sp 1981 THRU 1982 2WD 3/4 TON GAS & DIESEL ENG
	W42 2/82 THRU 1983 4 sp 2WD..... W42 1984 4 sp 2WD..... W46 1985 THRU 1988 4 sp 2WD..... W50 & W52 1979 THRU 1983 5 sp 1/2 TON..... W52 1984-1985 5sp w/CARB.....
	G40 4 sp 1984-1985 2WD DIESEL..... G52 5 sp 1983 2WD DIESEL..... G52 5 sp 1984 - 1988 2WD & 4WD CARB. & DIESEL ENG..... <small>Ext shown 2wd version will have an extension housing</small>
	W55 5 sp 198X - 198X 2WD/4WD EFI & TURBO DIESEL W56 5 sp 1986-1988 2WD w/CARB..... <small>Ext shown 2wd version will have an extension housing</small>
	R150 / R151F 5 sp 1986-1988 2WD TURBO
	R150 / R151F 5 sp 1986-1988 4WD TURBO 11/87 THRU 1988 V-6.....

Figure 2

ABBREVIATION			
4F	Four Speed	TD	Turbo Diesel
5F	Five Speed	DSL	Diesel
2WD	Two Wheel Drive	CARB	Carburetor
4WD	Four Wheel Drive	RN	Gas Engine (Part of VIN)
3QT	Three Quarter Ton	LN	Diesel Engine (Part of VIN)
HLF	Half Ton	VZN	V6 (Part of VIN)
EFI	Electronic Fuel Injection	T	Thickness in Millimeters
TBO	Turbo		

Figure 3

The Following Combination Of Letters & Numbers Are Part Of the VIN

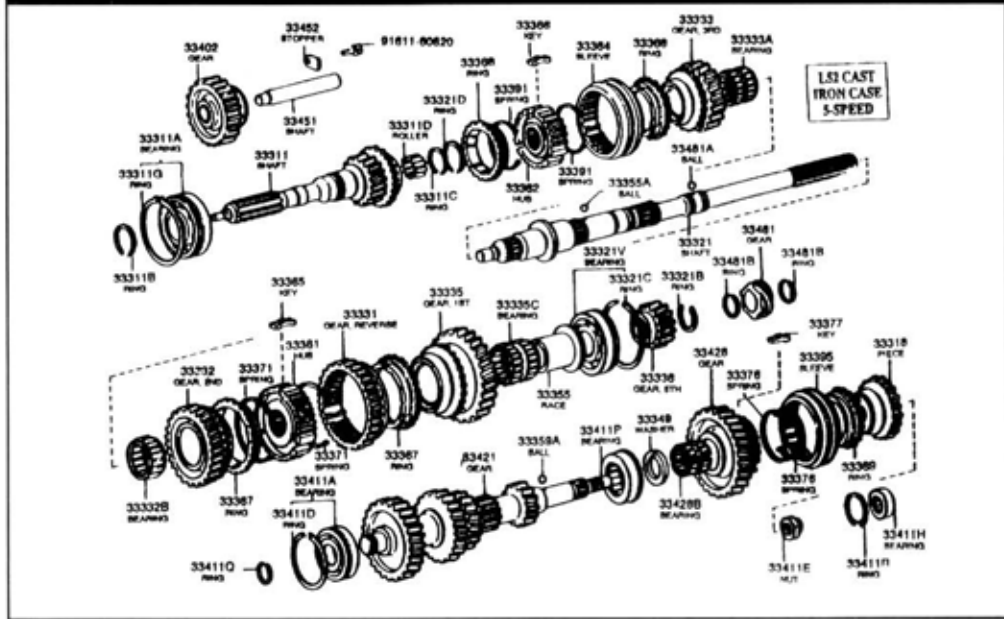
RN32, RN42, RN34, RN44,	
RN5#M, RN55, RN70, RN75.....	2WD GAS
RN38, RN48, RN6#	4WD GAS
LN40, LN51, LN56	2WD DIESEL
LN65, LN66.....	4WD DIESEL
VZN6	4WD V6 ENGINE

The 3 basic types of units found in the Toyota truck lines are the L series, W series and G series. The L units were used from 8/80 to 7/83 and have cast-iron cases. The G series ran from 8/83 to 8/88 and have aluminium cases. The W series can be identified by the 5th gear mounted on the mainshaft, while both the L and G series units have 5th gear mounted on the countershaft. The parts blowups of the L and G units in Figures 4 and 5 have group numbers listed to help you order parts.

continues page 64

Figure 4

L52 5 Speed Transmission Used 8/80-7/83



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- 247J Pump Coupler AWD
- 249 J AWD

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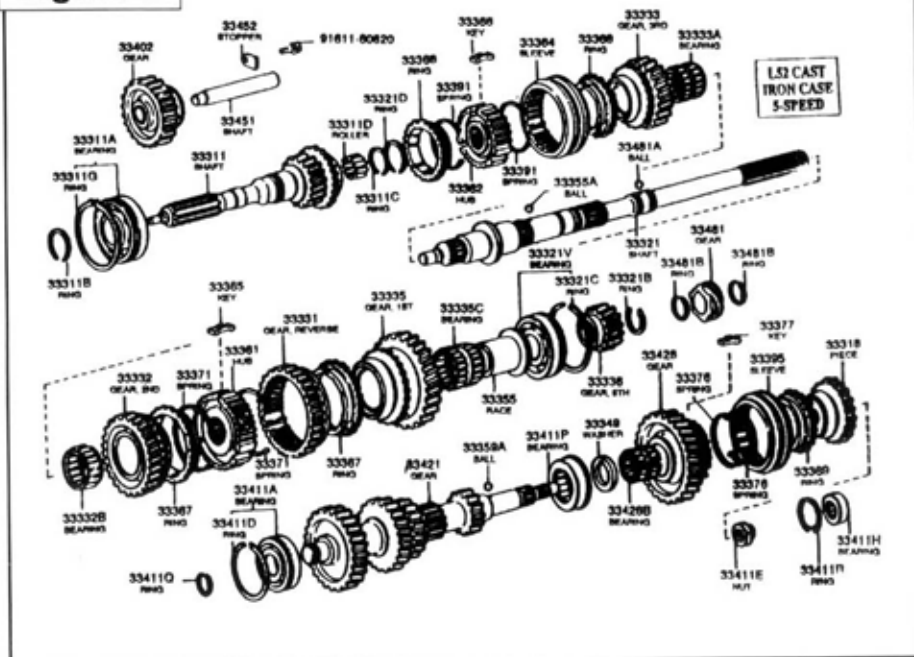
Important clearances during overhaul:

- Mainshaft Runout (dial indicated)..... $\frac{3}{1000}$ max.
- Minimum thickness M/S flange1929
- Oil clearance on speed gears with inner race and needle bearing installed..... .0004-.0013
- Synchro ring minimum clearance..... $\frac{31}{1000}$
- Fork to hub maximum clearance $\frac{39}{1000}$
- Reverse idler gear to shaft clearance..... .0016-.0032
- Axial play to input or synchro hub..... .0039
- Lube type.....75-90 weight gear oil

Knowledge is the key to solving all problems. Finding the information to understand what you are working on is the difference between a healthy bank account and bankruptcy.

G52 5 Speed Transmission Used 8/83-8/88

Figure 5



I would like to thank Duane Holliman, Pat Stump and Mike Maravelas of Lou Fusz Toyota for the excellent job they did in

putting the ID charts and diagrams together. Happy holidays everyone. ■

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- CHEROKEE - XJ-NV231J, NV242J, NV249J
- LIBERTY - KJ-NV231J, NV242J
- GRAND CHEROKEE - ZJ, WJ, WK-NV140J, NV147J, NV231J, NV242J, NV245J, NV247J, NV249J
- CHEROKEE/WAGONEER/J10 - NP208J, NP219J, NP228J, NP229J

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