

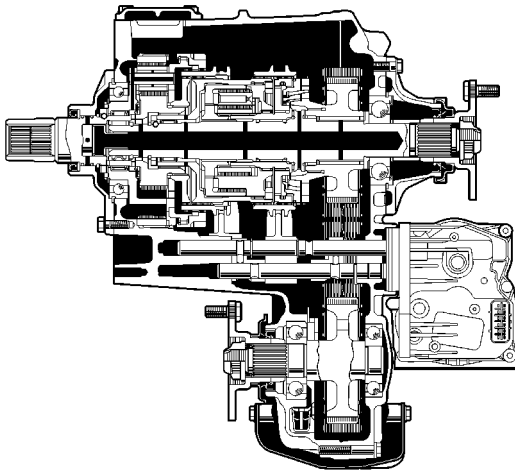
TRANSFER

■ DESCRIPTION

- '03 4Runner with 1GR-FE engine uses the multi-mode VF4AM transfer.
- The VF4AM transfer has been newly developed. Its main feature is the adoption of the TORSEN LSD in the center differential.
- The VF4AM transfer is a multi-mode 4WD transfer that offers the advantages of a part-time 4WD that switches between 4WD and 2WD mode as necessary, and of a full-time 4WD that excels in driving performance.
- The method for switching the modes of this transfer involves the operation of a 4WD control switch to actuate the 2 shift motors. Thus, the transfer shift lever has been discontinued and the ease of operation has been improved.
- The basic construction and operation of the VF4AM transfer are the same as those of the VF4BM transfer that is used on the '03 4Runner with the 2UZ-FE engine. However, the particulars indicated below differ from those of the VF4BM transfer.
 - A 2-4 & center diff. lock shift mechanism has been adopted.
 - Transfer shift shaft has been added.
 - A 2-4 shift synchromesh mechanism has been adopted.
 - A 2-4 & center differential lock shift motor limit switch, which contains a 3-contact point switch, has been adopted.

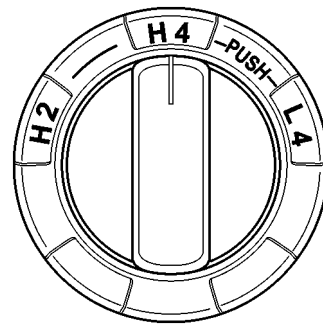
NF

▶ VF4AM Transfer ◀



238CH07

▶ 4WD Control Switch ◀



238CH08

► Specifications ◀

Model		'03 4Runner		'02 4Runner
Engine Type		1GR-FE	2UZ-FE	5VZ-FE
Transfer Type		VF4AM	VF4BM	VF3AM
Drive Type		Multi-Mode (Part-time & Full time)	Full-Time	Multi-Mode (Part-time & Full time)
Gear Ratio	H2	1.000	—	1.000
	H/H4	1.000	←	←
	L/L4	2.566	←	←
Reduction Gear Type		Single Pinion Planetary	←	←
Center Differential Gear Type		TORSEN LSD	←	Double Pinion Planetary
Oil Capacity Liters (US qts, Imp.qts)		1.4 (1.5, 1.3)	←	1.2 (1.3, 1.1)
Oil Viscosity		SAE 75W-90	←	←
Oil Grade		API GL-5	←	API GL-3
Weight (Reference)* kg (lb)		41.2 (90.8)	41.5 (91.5)	42.8 (94.4)

*: Weight shows the figure with the oil fully filled.
 TORSEN is ZEXEL's registered trademark.