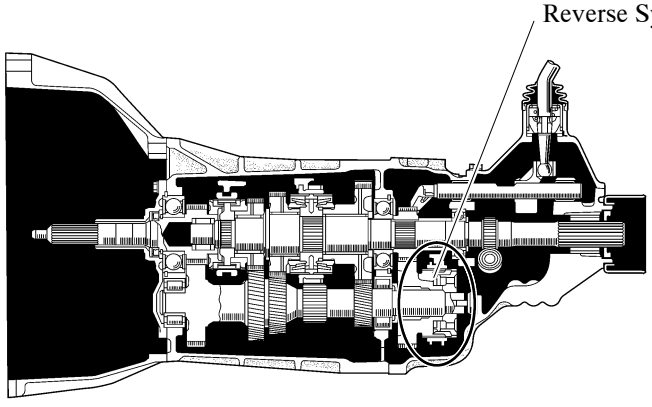
R150, R150F, R151 AND R151F MANUAL TRANSMISSIONS

■ DESCRIPTION

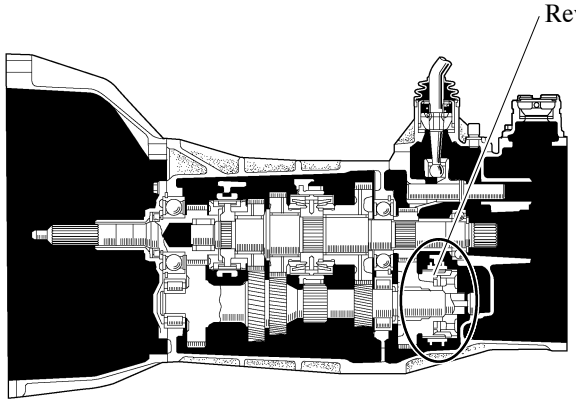
● The R150, R150F, R151, and R151F manual transmissions are used on the new Fortuner/Hilux SW4. The provision of these manual transmissions is as follows:

Engine Type	Drive Type	Transmission Type
2TR-FE, 1GR-FE	2WD PreRunner	R150
	4WD	R150F
1KD-FTV, 2KD-FTV High Version	2WD PreRunner	R151
	4WD	R151F

● A reverse synchromesh mechanism is used for the reverse gear of these manual transmissions to enhance the ease of operation. The construction and operation of this mechanism are the same as the reverse synchromesh mechanism that is used in the G58F manual transmission. For details, see G58F Manual Transmission on page CH-6.



R150 Manual Transmission



R150F Manual Transmission

▶ Specifications ◀

Transmission Type		R150	R150F
Engine Type		2TR-FE	2TR-FE, 1GR-FE
Gear Ratio	1st	3.830	←
	2nd	2.062	←
	3rd	1.436	←
	4th	1.000	←
	5th	0.838	←
	Reverse	4.220	←
Oil Capacity	Liters (US qts, Imp. qts)	2.6 (2.7, 2.3)	2.2 (2.3, 1.9)
Oil Viscosity		SAE 75W-90	←
Oil Grade		API GL-4 or GL-5	←
Weight (Reference)*	kg (lb)	48.0 (105.6)	52.0 (114.8)

*: Weight shows the figure with the oil fully filled.

Transmission Type		R151	R151F
Engine Type		1KD-FTV, 2KD-FTV High Version	←
Gear Ratio	1st	4.313	←
	2nd	2.330	←
	3rd	1.436	←
	4th	1.000	←
	5th	0.838	←
	Reverse	4.220	←
Oil Capacity	Liters (US qts, Imp. qts)	2.6 (2.7, 2.3)	2.2 (2.3, 1.9)
Oil Viscosity		SAE 75W-90	←
Oil Grade		API GL-4 or GL-5	←
Weight (Reference)*	kg (lb)	50.3 (111.0)	52.0 (114.8)

*: Weight shows the figure with the oil fully filled.

▶ Synchromesh Mechanism Type ◀

Transmission Type		R150, R150F		R151, R151F	
Engine Type		2TR-FE	1GR-FE	1KD-FTV	2KD-FTV High Version
Gear	1st	Single Cone	Triple Cone	←	←
	2nd	Triple Cone	←	←	←
	3rd	Single Cone	←	←	←
	4th	Single Cone	←	←	←
	5th	Single Cone	←	←	←
	Reverse	Reverse	←	←	←

CH