R150, R150F, R151 AND R151F MANUAL TRANSMISSIONS

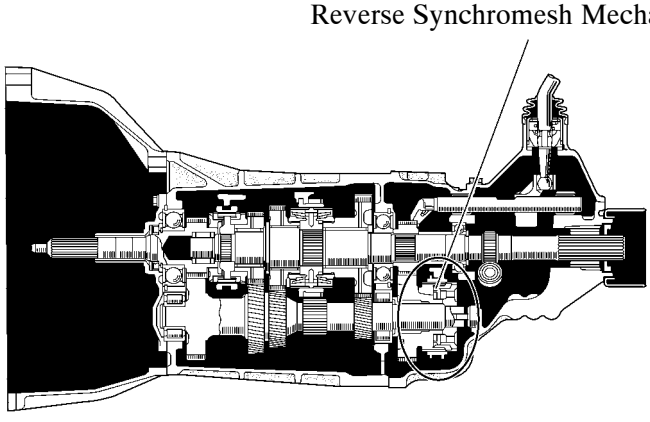
■ DESCRIPTION

- The R150, R150F, R151, and R151F manual transmissions are used for the new Hilux. The provision of these manual transmissions is as follows:

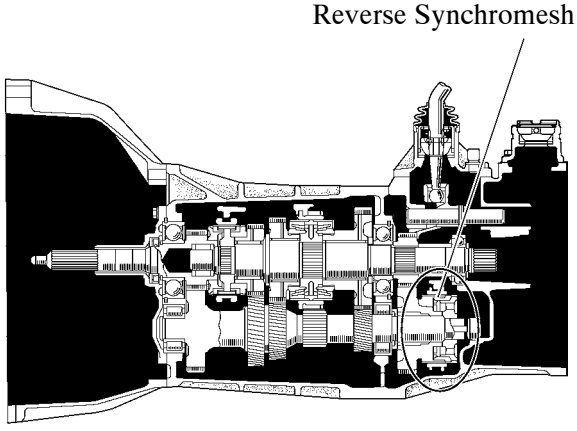
Transmission Type	R150		R150F
Drive Type	2WD	2WD PreRunner	4WD
Engine Type	2TR-FE	2TR-FE	2TR-FE
	1GR-FE	2TR-FBE	1GR-FE

Transmission Type	R151		R151F
Drive Type	2WD	2WD PreRunner	4WD
Engine Type	1KD-FTV	1KD-FTV	1KD-FTV
	2KD-FTV High Version	2KD-FTV High Version	2KD-FTV High Version

- 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 G50 series manual transmissions. For details, see G50, G55, G58 and G58F Manual Transmissions on page CH-8.



R150/R151 Manual Transmission 271CH02



R150F/R151F Manual Transmission 233CH09

▶ Specifications ◀

Transmission Type		R150	R150F
Engine Type		2TR-FE, 2TR-FBE, 1GR-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)	50.3 (111.0)	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		
Engine Type		2TR-FE	2TR-FBE	1GR-FE
Gear	1st	Single Cone	←	Triple Cone
	2nd	Triple Cone	←	←
	3rd	Single Cone	←	←
	4th	Single Cone	←	←
	5th	Single Cone	←	←
	Reverse	Reverse	←	←

(Continued)

CH

Transmission Type		R150F	
Engine Type		2TR-FE	1GR-FE
Gear	1st	Single Cone	Triple Cone
	2nd	Triple Cone	←
	3rd	Single Cone	←
	4th	Single Cone	←
	5th	Single Cone	←
	Reverse	Reverse	←

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