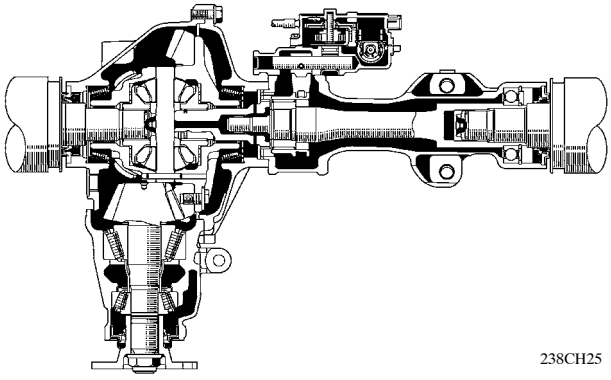
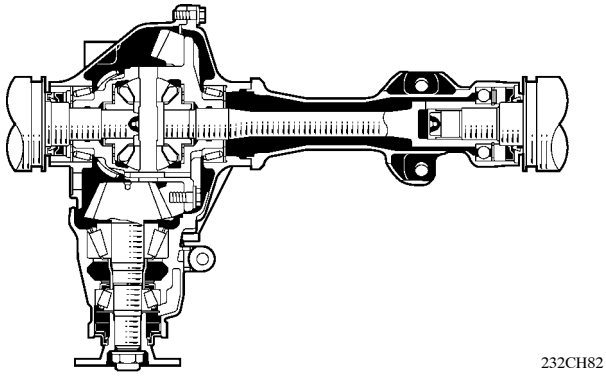
DIFFERENTIAL

■ DESCRIPTION

- A front differential with an A.D.D. (Automatic Disconnecting Differential) shift actuator is used on the 4WD models. For details of provision, see page CH-74.
- The following types of rear differential are used: BD20D (2WD or 4WD), BD20D with LSD (2WD or 4WD) and BD20D with differential lock (4WD or 2WD PreRunner). Each differential type varies depending on the drive type and engine.



Front Differential with A. D. D. Shift Actuator

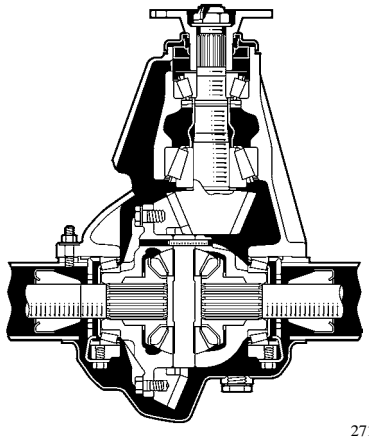


Front Differential without A. D. D. Shift Actuator

▶ Specifications ◀

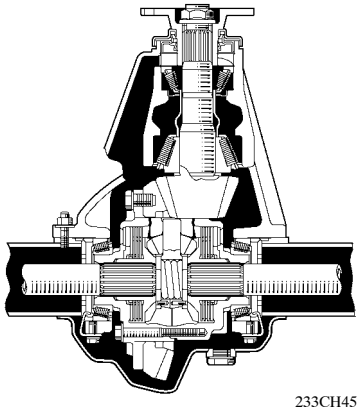
Model	With A.D.D. Shift Actuator	Without A.D.D. Shift Actuator
Ring Gear Size mm (in.)	205.0 (8.0)	←
Oil Capacity Liters (US qts, Imp. qts)	1.65 (1.7, 1.5)	1.45 (1.5, 1.3)
Oil Viscosity	SAE 75W-90	SAE 85W-90
Oil Grade	API GL-5	←
Oil Type	Hypoid	←
Weight (Reference)* kg (lb)	34.2 (75.3)	37.0 (82.0)

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



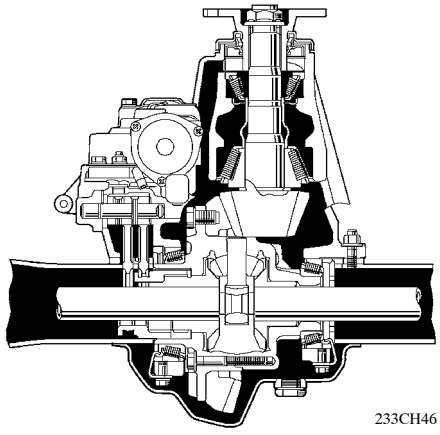
271CH42

Rear Differential



233CH45

Rear Differential with LSD



233CH46

Rear Differential with Diff. Lock

▶ Specifications ◀

Type		Without LSD and Diff. Lock	With LSD	With Diff. Lock
Ring Gear Size	mm (in.)	205.0 (8.0)	←	←
Oil Capacity	Liters (US qts, Imp. qts)	3.2 (3.38, 2.81)*1, 3.4 (3.59, 2.99)*2	←	2.9 (3.06, 2.55)*2
Oil Viscosity		SAE 85W-90	←	←
Oil Grade		API GL-5	←	←
Oil Type		Hypoid	Hypoid LSD	Hypoid
Weight (Reference)*3	kg (lb)	25.7 (56.7)	30.8 (67.9)	29.6 (65.3)

*1: 2WD models

*2: 2WD PreRunner and 4WD models

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

- The new Hilux has the following front and rear differentials:

Engine Type	Transmission Type	Drive Type	Differential Type		Gear Ratio	
			Front	Rear	Standard	Option
1TR-FE	G55	2WD	—	BD20D	4.555	—
2TR-FE	R150	2WD	—	BD20D	4.100	—
		2WD PreRunner	—	BD20D	4.555	—
	R150F	4WD	SD20C	BD20D	4.555	—
	A343E	2WD	—	BD20D	4.100	—
		2WD PreRunner	—	BD20D	4.555	—
	A343F	4WD	SD20C	BD20D	4.555	—
2TR-FBE	R150	2WD PreRunner	—	BD20D	4.100	—
	A343E	2WD PreRunner	—	BD20D	4.100	—
1GR-FE	R150	2WD	—	BD20D	3.583	—
	R150F	4WD	SD20C	BD20D	3.583	—
	A750E	2WD	—	BD20D	3.583	—
		2WD PreRunner	—	BD20D	3.583	—
	A750F	4WD	SD20C	BD20D	3.583	—
5L-E	G58	2WD	—	BD20D	4.100	—
		2WD PreRunner	—	BD20D	4.555	—
	G58F	4WD	SD20C	BD20D	4.555	—
1KD-FTV	R151	2WD	—	BD20D	3.583	—
		2WD PreRunner	—	BD20D	3.583, 3.727*1	—
	R151F	4WD	SD20C	BD20D	3.583	—
	A340E	2WD	—	BD20D	3.727	—
		2WD PreRunner	—	BD20D	3.909	—
	A340F	4WD	SD20C	BD20D	3.727*2, 3.909*3	3.727*4, 3.909*5
	A750F	4WD	SD20C	BD20D	3.909	—
2KD-FTV	G50	2WD	—	BD20D	4.100	—
2KD-FTV High Version	R151	2WD	—	BD20D	3.583	—
		2WD PreRunner	—	BD20D	3.909*6, 4.100*7	—
	R151F	4WD	SD20C	BD20D	3.909	—
	A340F	4WD	SD20C	BD20D	3.909	—

*1: Double cab models for Thailand
*2: Models for Australia
*3: Except models for Australia
*4: Models for Philippines
*5: Models for Australia except cab and chassis model
*6: Except SR grade for Philippines and South Africa
*7: SR grade for Philippines and South Africa

- A.D.D. shift actuator is provided for the new Hilux as follows:

●: Standard OP: Option —: None

Destination	Transmission Type	Grade	A.D.D. Shift Actuator	
			With	Without
Thailand	R151F	SR	●	—
	A340F	SR	●	—
Australia	R150F	Deluxe	—	●
		SR	●	—
	R151F	Deluxe	OP	●
		SR	●	—
	A340F	Deluxe	OP	●
		SR	●	—
	A750F	Deluxe	—	●
		SR	●	—
G.C.C. Countries	R150F	Deluxe	OP*1	●
	R151F	Deluxe	OP	●
	A343F	Deluxe	●	—
Philippines	R151F	SR	●	—
	A340F	SR	●	—
Indonesia	R151F	SR	●	—
Pakistan	R151F	Deluxe	—	●
South Africa	G58F	Deluxe	●*2, OP*3	●*3
	R150F	Deluxe	OP	●
	R151F	Deluxe	●	OP*3
		SR	●	—
	A340F	SR	●	—
	A750F	SR	●	—
Europe	R151F	Deluxe	●	—
		SR	●	—
	A750F	SR	●	—
General Countries	R150F	Deluxe	OP*4	●
		SR	●	—
	R151F	Deluxe	●*5, OP*4	●*6, OP*5
		SR	●	—
	A340F	SR	●	—
Central and South America	R150F	Deluxe	OP	●
	R151F	Deluxe	●*5, OP*6	●*6, OP*5
		SR	●	—
	A340F	SR	●	—

*1: Double cab models
*2: Except single cab LHD models
*3: Single cab LHD models
*4: Backup models with export package
*5: Models with 1KD-FTV engine
*6: Models with 2KD-FTV High Version engine

(Continued)

●: Standard OP: Option —: None

Destination	Transmission Type	Grade	A.D.D. Shift Actuator	
			With	Without
Malaysia	R151F	Deluxe	●*1, OP*2	●*2
		SR	●	—
	A340F	SR	●	—
ANCOM	R150F	Deluxe	●	—
		SR	●	—
	R151F	Deluxe	●	—
	A750F	SR	●	—

*1: Double cab models
*2: Single cab models

- The new Hilux has the following rear differential lock mechanisms:

●: Standard OP: Option —: None

Destination	Transmission Type	Rear Differential Lock Mechanism		
		Diff. Lock	LSD	Without
Thailand	G50	—	—	●
	R150	—	—	●
	R151	—	—	●
	R151F	—	●	OP*1
	A340E	—	—	●
	A340F	—	OP	●
Australia	R150	—	OP	●
	R150F	—	●	—
	R151	—	OP	●
	R151F	—	●	OP*2
	A340F	—	●	OP*3
	A343E	—	—	●
	A750E	—	OP	●
	A750F	—	●	—
G.C.C. Countries	G50	—	—	●
	G55	—	—	●
	R150	—	—	●
	R150F	—	OP*3	●
	R151F	—	OP	●
	A343E	—	—	●
	A343F	—	OP	●
Philippines	G50	—	—	●
	R151	—	—	●
	R151F	—	—	●
	A340F	—	—	●
Indonesia	G55	—	—	●
	R151F	—	●	—
Pakistan	R151F	—	●	—

*1: Double cab models with 1KD-FTV engine
*2: Double cab models except cab and chassis model
*3: Double cab models

(Continued)

●: Standard OP: Option —: None

Destination	Transmission Type	Rear Differential Lock Mechanism		
		Diff. Lock	LSD	Without
South Africa	G50	—	OP*1	●
	G55	—	—	●
	G58	OP*2	—	●
	G58F	OP	—	●
	R150	●*2	—	●*3
	R150F	OP	—	●
	R151	●	—	OP*4
	R151F	●	OP*5	OP*6
	A340E	●	—	—
	A340F	●	—	—
	A750E	●	—	—
	A750F	●	—	—
Europe	R151	—	OP	●
	R151F	OP*6	OP	●
	A750F	—	OP	●
General Countries	G50	—	OP	●
	R150	—	OP	●
	R150F	—	OP*7	●
	R151	—	●	OP
	R151F	—	●*8, OP*9	●*9, OP*8
	A340F	—	●*1, OP*10	●*10, OP*1
Central and South America	R150	—	●*11, OP*12	●*12
	R150F	—	OP	●
	R151	—	●	—
	R151F	—	OP	●
	A340F	—	OP	●
	A343E	—	●	—
Malaysia	R151F	—	●	—
	A340F	—	●	—
ANCOM	R150	—	—	●
	R150F	—	—	●
	R151	—	—	●
	R151F	—	—	●
	A343E	—	—	●
	A750F	—	—	●

*1: RHD models *2: 2WD PreRunner models *3: 2WD models
*4: Double cab models with 2KD-FTV High Version engine
*5: RHD models with 2KD-FTV High Version engine
*6: Models with 2KD-FTV High Version engine *7: Deluxe grade *8: SR grade of RHD models
*9: Except SR grade of RHD models *10:LHD models *11:Models with 2TR-FBE engine
*12:Models with 2TR-FE engine