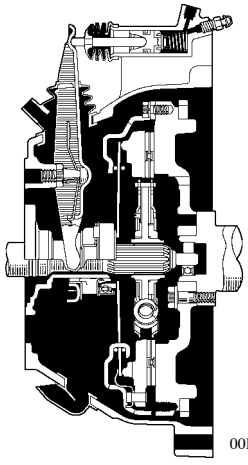
CHASSIS

CLUTCH

■ DESCRIPTION

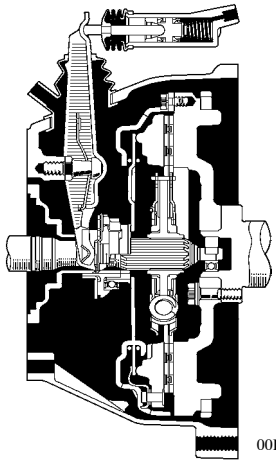
The new Hilux has a clutch system with the following features.

- A dry, single-plate clutch operated by hydraulic pressure is used, which is matched to the performance of each engine.
- A clutch disc that uses an organic solvent-free material is used to help protect the environment. In addition, the components of the clutch damper have been optimized to achieve wear resistance and reduce noise and vibration.
- A clutch accumulator is used to reduce the noise and vibration on the models with the 1GR-FE, 5L-E, 1KD-FTV, 2KD-FTV or 2KD-FTV High Version engine.
- A turnover mechanism, which reduces clutch pedal effort, is used on the models with the 1GR-FE, 1KD-FTV or 2KD-FTV High Version engine.



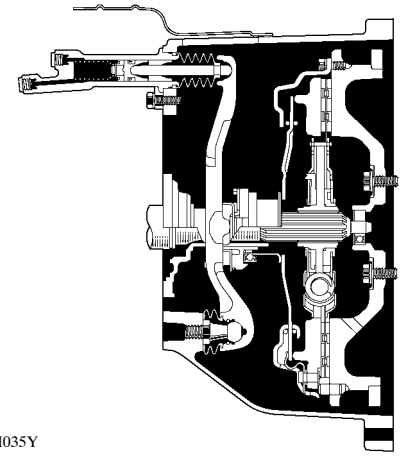
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Models with 1TR-FE Engine



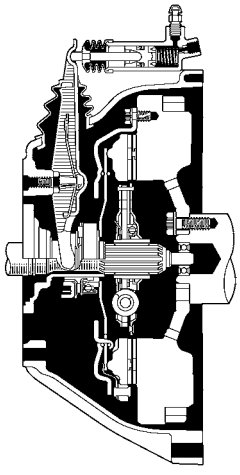
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Models with 2TR-FE Engine



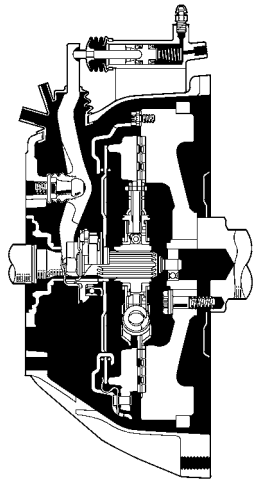
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Models with 1GR-FE Engine



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Models with 5L-E Engine



00LCH048I

Models with 1KD-FTV, 2KD-FTV or 2KD-FTV High Version Engines

▶ Specifications ◀

Engine Type			1TR-FE
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	236 (9.29)
	Installed Load	N	4410*1, 4900*2
Clutch Disc	Facing Size*3	mm (in.)	236 × 150 (9.29 × 5.91)
Master Cylinder	Type		Plunger
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			—
Clutch Pedal Type			Conventional

*1: Models for South Africa
*2: Except models for South Africa
*3: Outer diameter × Inner diameter

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Engine Type			2TR-FE
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	250 (9.84)
	Installed Load	N	5690*1, 5900*2
Clutch Disc	Facing Size*3	mm (in.)	250 × 160 (9.84 × 630)
Master Cylinder	Type		Plunger
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			—
Clutch Pedal Type			Conventional

*1: Models for South Africa and Central and South America
*2: Except models for South Africa and Central and South America
*3: Outer diameter × Inner diameter

Engine Type			2TR-FBE
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	250 (9.84)
	Installed Load	N	5900
Clutch Disc	Facing Size*	mm (in.)	250 × 160 (9.84 × 630)
Master Cylinder	Type		Plunger
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			—
Clutch Pedal Type			Conventional

*: Outer diameter × Inner diameter

(Continued)

Engine Type			1GR-FE
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	275 (10.83)
	Installed Load	N	7350
Clutch Disc	Facing Size*	mm (in.)	275 × 175 (10.83 × 6.89)
Master Cylinder	Type		Conventional
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			With
Clutch Pedal Type			Turnover

*: Outer diameter × Inner diameter

Engine Type			5L-E
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	236 (9.29)
	Installed Load	N	4410
Clutch Disc	Facing Size*	mm (in.)	236 × 150 (9.29 × 5.91)
Master Cylinder	Type		Plunger
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			With
Clutch Pedal Type			Conventional

*: Outer diameter × Inner diameter

Engine Type			1KD-FTV
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	275 (10.83)*1, 260 (10.24)*2
	Installed Load	N	7350*1, 6700*2
Clutch Disc	Facing Size*3	mm (in.)	275 × 175 (10.83 × 6.89)*1, 260 × 172 (10.24 × 6.77)*2
Master Cylinder	Type		Conventional
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			With
Clutch Pedal Type			Turnover

*1: Except models for Central and South Africa
*2: Models for Central and South Africa
*3: Outer diameter × Inner diameter

(Continued)

Engine Type			2KD-FTV
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	236 (9.29)
	Installed Load	N	4410*1, 4900*2
Clutch Disc	Facing Size*3	mm (in.)	236 × 150 (9.29 × 5.91)
Master Cylinder	Type		Plunger
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			With
Clutch Pedal Type			Conventional

*1: Models for South Africa
*2: Except models for South Africa
*3: Outer diameter × Inner diameter

Engine Type			2KD-FTV High Version
Clutch	Type		Dry Type Single Plate Clutch, Diaphragm Spring
	Operation		Hydraulic
Clutch Cover	Size	mm (in.)	260 (10.24)
	Installed Load	N	5800*1, 6350*2, 7350*3
Clutch Disc	Facing Size*4	mm (in.)	260 × 172 (10.24 × 6.77)*1, 260 × 170 (10.2 × 6.69)*2, 275 × 175 (10.83 × 6.89)*3
Master Cylinder	Type		Plunger*5, Conventional*3
Release Cylinder	Type		Non-adjustable
Clutch Accumulator			With
Clutch Pedal Type			Turnover

*1: Models for South Africa and Central and South America
*2: Except models for South Africa, Central and South America, Thailand and Europe
*3: Models for Thailand and Europe
*4: Outer diameter × Inner diameter
*5: Except models for Thailand and Europe