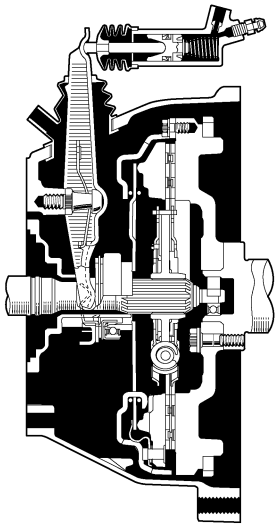
# CHASSIS

## CLUTCH

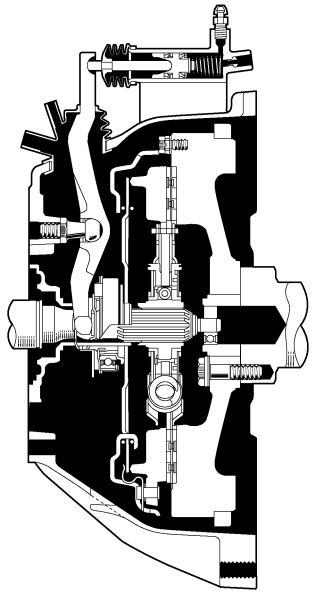
### ■ DESCRIPTION

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

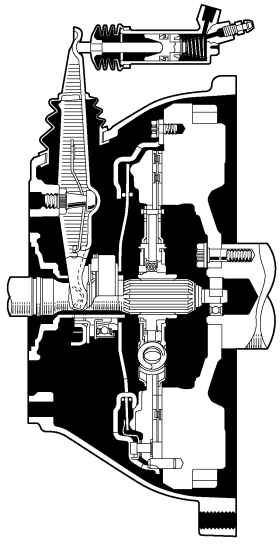
- A dry, single-plate clutch operated by hydraulic pressure, which is matched to the performance of each engine is used.
- A clutch master cylinder made of plastic is used.
- A clutch master cylinder has been placed in the front compartment.
- A clutch disc that uses an organic solvent-free material is used to help protect the environment. In addition, the components of the clutch damper have been optimized to realize wear resistance and reduce noise and vibration.
- A clutch accumulator is used on the clutch piping to reduce the noise and vibration on the 2KD-FTV and 5L-E engine models.
- A turnover mechanism, which reduces clutch pedal effort, is used.



**2TR-FE Engine Model**



**2KD-FTV Engine Model**



**5L-E Engine Model**

286CH01

**▶ Specifications ◀**

| Model | | New | Previous |
|---|---|---|---|
| Engine | | 2TR-FE | 2RZ-E |
| Clutch | Type | Dry Type Single Plate Clutch Diaphragm Spring | ← |
| | Operation | Hydraulic | ← |
| Clutch Cover | Type | DST*1 | ← |
| | Size mm (in.) | 250 (9.85) | 236 (9.29) |
| | Installed Load N | 5880 | 4900 |
| Clutch Disc | Facing Size*2 mm (in.) | 250 × 160 × 3.5 (9.85 × 6.30 × 0.14) | 236 × 150 × 3.5 (9.29 × 5.91 × 0.14) |
| | Facing Area $cm^2$ ($in.^2$) | 289 (44.8) | 260 (40.3) |
| Master Cylinder | Type | Plunger | Conventional |
| | Cylinder Dia. mm (in.) | 15.87 (0.62) | ← |
| Release Cylinder | Type | Non-Adjustable | ← |
| | Cylinder Dia. mm (in.) | 20.64 (0.81) | ← |
| Clutch Accumulator | | — | — |
| Clutch Pedal | | Turnover | Conventional |

*1: DST (Diaphragm Spring Turnover) *2: Outer Diameter × Inner Diameter × Thickness

| Model | | New | New | Previous |
|---|---|---|---|---|
| Engine | | 2KD-FTV | 5L-E | 5L, 5L-E |
| Clutch | Type | Dry Type Single Plate Clutch Diaphragm Spring | ← | ← |
| | Operation | Hydraulic | ← | ← |
| Clutch Cover | Type | DST*1 | ← | ← |
| | Size mm (in.) | 260 (10.23) | 236 (9.29) | ← |
| | Installed Load N | 6370 | 4900 | ← |
| Clutch Disc | Facing Size*2 mm (in.) | 260 × 170 × 3.5 (10.23 × 6.69 × 0.14) | 236 × 150 × 3.5 (9.29 × 5.91 × 0.14) | ← |
| | Facing Area $cm^2$ ($in.^2$) | 303 (47.1) | 260 (40.3) | ← |
| Master Cylinder | Type | Plunger | ← | Conventional |
| | Cylinder Dia. mm (in.) | 15.87 (0.62) | ← | ← |
| Release Cylinder | Type | Non-Adjustable | ← | ← |
| | Cylinder Dia. mm (in.) | 20.64 (0.81) | 20.64 (0.81) | ← |
| Clutch Accumulator | | with | ← | ← |
| Clutch Pedal | | Turnover | ← | Conventional |

*1: DST (Diaphragm Spring Turnover) *2: Outer Diameter × Inner Diameter × Thickness

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