

CHASSIS

CLUTCH

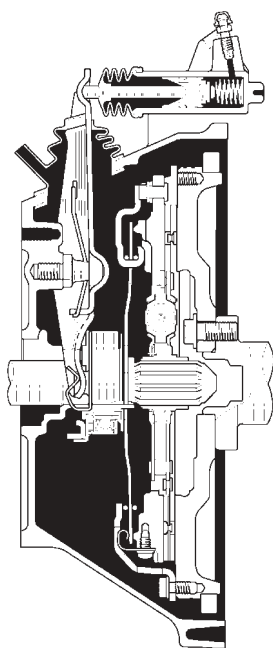
■ DESCRIPTION

The new model 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 master cylinder made of plastic is used.
- To address environmental concerns, the clutch disc on the 1AZ-FE and 2AZ-FE engine models is made of an organic solvent-free material.

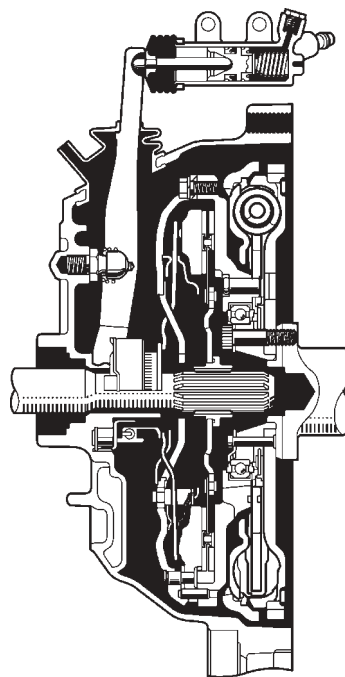
In addition, the components of the clutch damper have been optimized to realize wear resistance and reduce noise and vibration.

- The self-adjusting type clutch cover is used to ensure a comfortable clutch feel on the 2AD-FTV and 2AD-FHV engine models.
- The clutch start system is available as optional equipment on the models with the smart entry & start system for Europe ([see page BE-87](#)).



1AZ-FE Engine

185CH02



2AD-FHV Engine

288NF01C

► Specifications ◀

Engine Type		1AZ-FE	2AZ-FE	2AD-FTV	2AD-FHV
Transaxle Type		E352F	E352, E359F	EA64F	←
Clutch	Type	Dry Type Single Plate, Diaphragm Spring	←	←	←
	Operation	Hydraulic	←	←	←
Clutch Cover	Type	DST* ¹	←	DST* ¹ with Self-adjusting	←
	Size mm (in.)	287 (11.3)	←	280 (11.0)	←
	Installed Load N	5400	5900	8800	10800
Clutch Disc	Facing Size* ² mm (in.)	236 × 150 × 3.5 (9.3 × 5.9 × 0.14)	←	240 × 155 × 3.5 (9.4 × 6.1 × 0.14)	←
	Facing Area cm ² (in. ²)	260 (41.6)	←	264 (42.2)	←
Master Cylinder	Type	Plunger	←	←	←
	Cylinder Dia. mm (in.)	15.87 (0.62)	←	←	←
Release Cylinder	Type	Non-adjustable	←	←	←
	Cylinder Dia. mm (in.)	20.64 (0.81)	22.20 (0.87)	20.64 (0.81)	←
Clutch Accumulator		Without	With	Without	←
Clutch Pedal		Turnover	←	←	←
Clutch Start System		Option	—	Option	←

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