

DESCRIPTION

General

The A340E is a 4-speed, Electronic Controlled Transmission (hereafter called ECT) developed for use with high-performance engine. A lock-up mechanism is built into the torque converter.

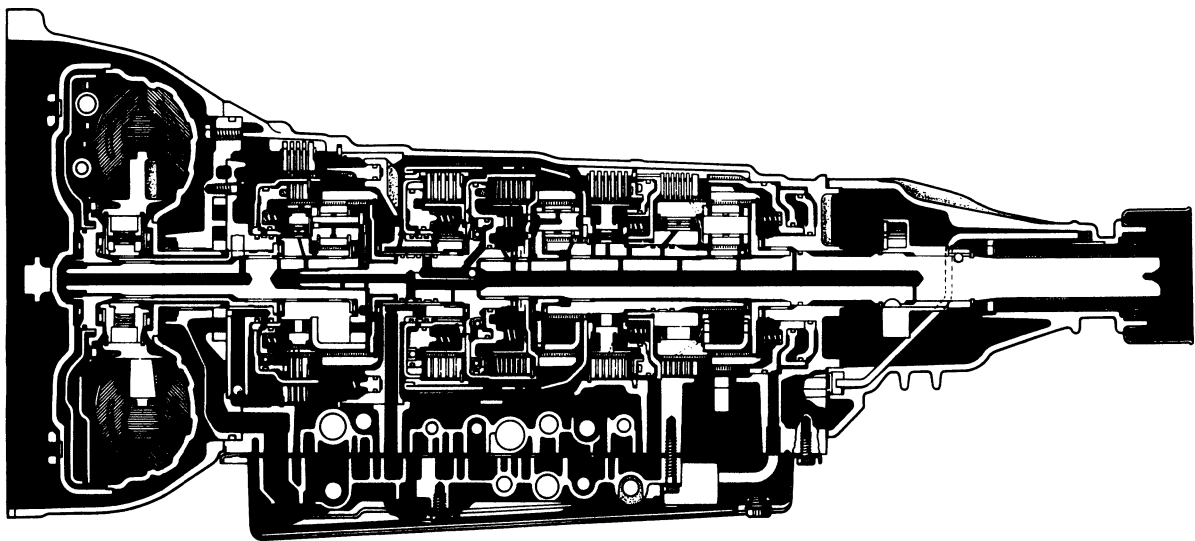
The A340F automatic transmission is a 4-speed automatic transmission with mechanically controlled 4WD transfer, developed with the aim of producing an easy-driving 4WD vehicle. The transmission section has fundamentally the same construction as the A340E automatic transmission.

The A340H automatic transmission is a 4-speed automatic transmission with electronically controlled 4Wd transfer, developed with the aim of producing an easy driving 4WD vehicle.

The transfer section consists of planetary gears, hydraulic clutches and hydraulic brake. The operation of these is fully controlled by the Engine & ECT ECU.

The A340E, A340F and A340H automatic transmissions are mainly composed of the torque converter, the overdrive (hereafter called O/D) planetary gear unit, 3-speed planetary gear unit, the hydraulic control system and the electronic control system.

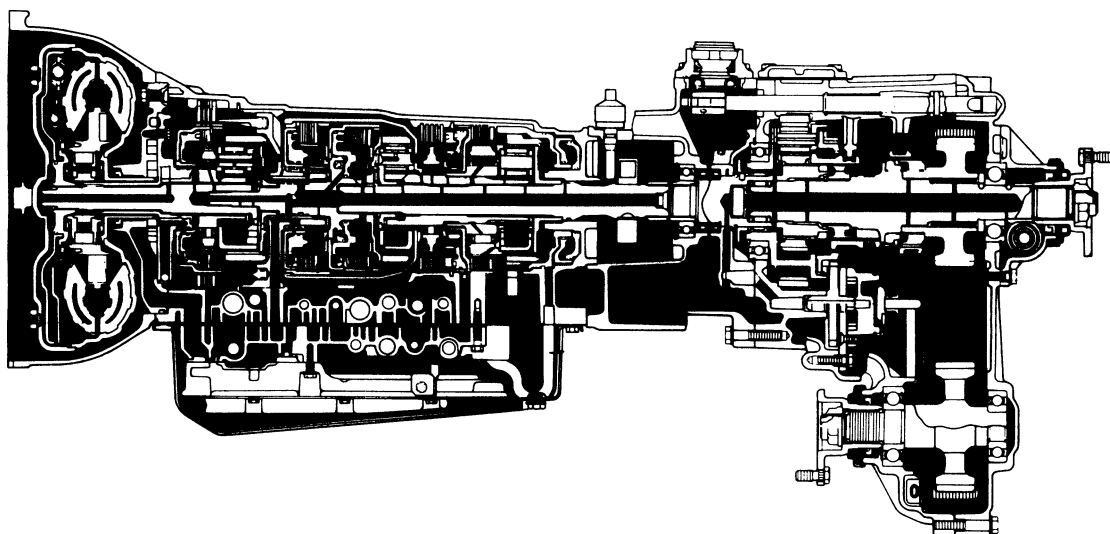
Sectional View
(A340E)



AT4366

Sectional View

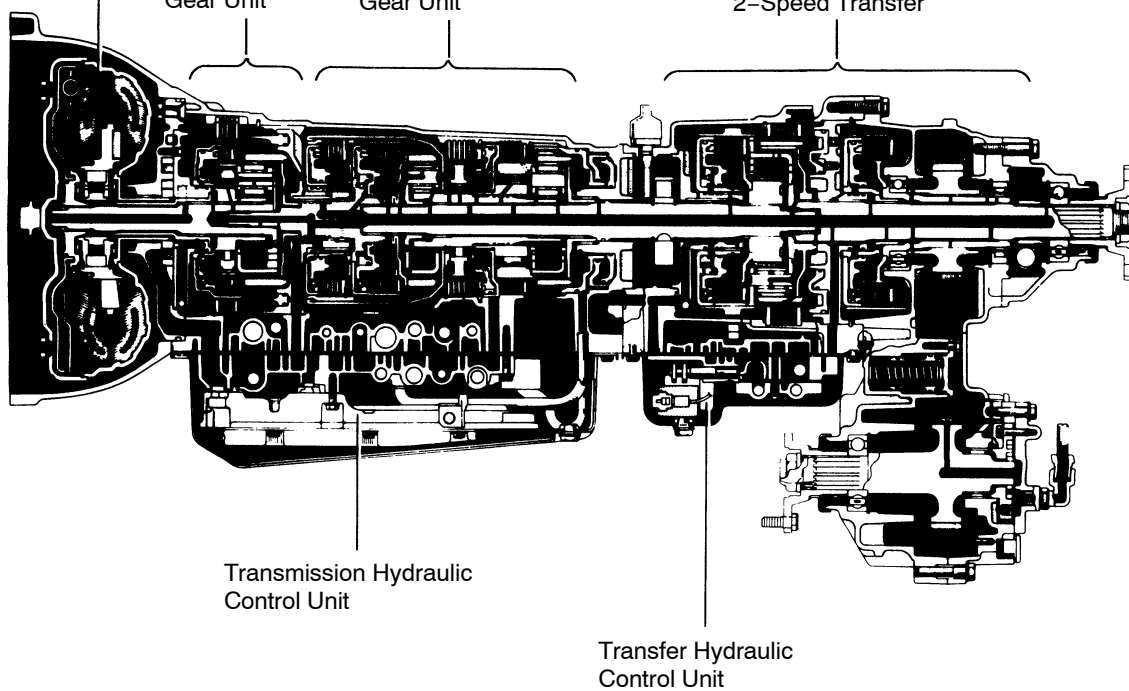
(A340F)



(A340H)

Torque Converter with
Lock-Up ClutchO/D Planetary
Gear Unit3-Speed Planetary
Gear Unit

2-Speed Transfer

Transmission Hydraulic
Control UnitTransfer Hydraulic
Control Unit

General Specifications

| | | | |
|--|---------------------------------------|---------------------|--------------------------------------|
| Type of Transmission | | | A340E |
| Type of Engine | | | 7M-GE, 7M-GTE, 3VZ-E |
| Torque Converter | Stall Torque Ratio | | Truck : C & C 2.0 : 1 Others 2.1 : 1 |
| | Lock-Up Mechanism | | Equipped |
| Gear Ratio | 1st Gear | | 2.804 |
| | 2nd Gear | | 1.531 |
| | 3rd Gear | | 1.000 |
| | O/D Gear | | 0.705 |
| | Reverse Gear | | 2.393 |
| Plates (Disc/Plate) | C ₀ | O/D Direct Clutch | 2/2 |
| | C ₁ | Forward Clutch | 5/5 |
| | C ₂ | Direct Clutch | 4/4 |
| | B ₂ | 2nd Brake | 5/5 |
| | B ₃ | 1st & Reverse Brake | 6/6 |
| | B ₀ | O/D Brake | 4/3 |
| Second Coast Brake Band Width mm (in.) | | | 40 (1.57) |
| ATF | Type | | ATF DEXRON® II |
| | Capacity liters (US qts, Imp. qts) | Total | 7.2 (7.6, 6.3) |
| | | Drain and Refill | 1.6 (1.7, 1.4) |

General Specifications (Cont'd)

| | | | |
|--|--|---------------------|----------------|
| Type of Transmission | | | A340F |
| Type of Engine | | | 22R-E |
| Torque Converter | Stall Torque Ratio | | 2.3 : 1 |
| | Lock-Up Mechanism | | Equipped |
| Gear Ratio | 1st Gear | | 2.804 |
| | 2nd Gear | | 1.531 |
| | 3rd Gear | | 1.000 |
| | O/D Gear | | 0.705 |
| | Reverse Gear | | 2.393 |
| Plates (Disc/Plate) | C ₀ | O/D Direct Clutch | 2/2 |
| | C ₁ | Forward Clutch | 5/5 |
| | C ₂ | Direct Clutch | 4/4 |
| | B ₂ | 2nd Brake | 5/5 |
| | B ₃ | 1st & Reverse Brake | 6/6 |
| | B ₀ | O/D Brake | 4/3 |
| Second Coast Brake Band Width mm (in.) | | | 40 (1.57) |
| ATF | Type | | ATF DEXRON® II |
| | Capacity liters (US qts, Imp. qts) | Total | 7.6 (8.0, 6.7) |
| | | Drain and Refill | 1.6 (1.7, 1.4) |

General Specifications (Cont'd)

| | | | | | | | | |
|-------------------------------|--|-----------------------------------|------------------------|----------------|---|-----------|--|--|
| Type of Transmission | | | | A340H | | | | |
| Type of Engine | | | | 3VZ-E | | | | |
| Torque Converter | | Stall Torque Ratio | | 2.1 : 1 | | | | |
| | | Lock-Up Mechanism | | Equipped | | | | |
| Gear Ratio | Transmission | 1st Gear | | 2.804 | | | | |
| | | 2nd Gear | | 1.531 | | | | |
| | | 3rd Gear | | 1.000 | | | | |
| | | O/D Gear | | 0.705 | | | | |
| | | Reverse Gear | | 2.393 | | | | |
| | Transfer | High (H2, H4) | | 1.000 | | | | |
| | | Low (L4) | | 2.659 | | | | |
| | Number of Discs and Plates (Disc /Plate) | Transmission | C ₁ | Forward Clutch | 4/4 | | | |
| C ₂ | | | Direct Clutch | 3/3 | | | | |
| C ₀ | | | O/D Direct Clutch | 1/1 | | | | |
| B ₂ | | | 2nd Brake | 4/4 | | | | |
| B ₃ | | | 1st & Reverse Brake | 5/5 | | | | |
| B ₀ | | | O/D Brake | 3/2 | | | | |
| Transfer | | C ₃ | Transfer Direct Clutch | 6/6 | | | | |
| | | C ₄ | Front Drive Clutch | 6/6 | | | | |
| | | B ₄ | Low Speed Brake | 7/6 | | | | |
| Second Coast Brake Band Width | | | | mm (in.) | | 40 (1.57) | | |
| ATF | | Type | | ATF DEXRON® II | | | | |
| | | Capacity liter (US qts, Imp. qts) | Total | | Transmission: 10.3 (10.9, 9.1), Transfer: 1.1 (1.2, 1.0) | | | |
| | | | Drain & Refill | | Transmission: 4.5 (4.8, 4.0), Transfer: 0.8 (0.8, 0.7) | | | |