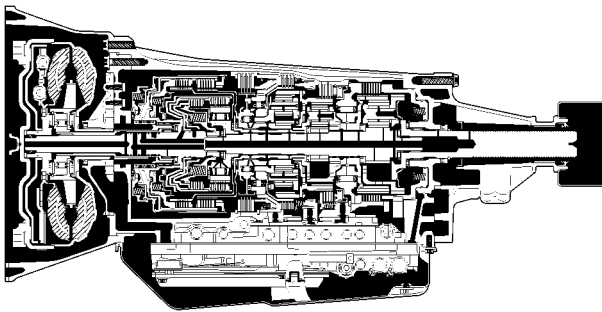


AB60E AND AB60F AUTOMATIC TRANSMISSIONS

■ DESCRIPTION

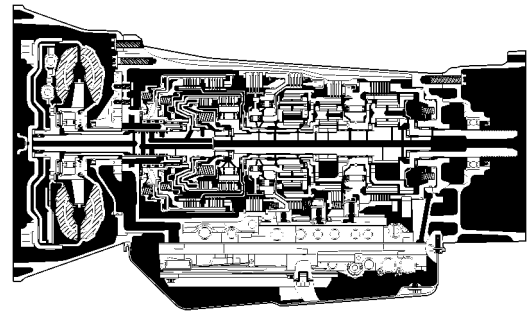
An AB60E (for 2WD models) or AB60F (for 4WD models) 6-speed Super ECT (Electronic Controlled Transmission) is used. The only difference between the AB60E and AB60F is in the extension housing and output shaft.

- These automatic transmissions are equipped with the multi-mode automatic transmission function. For details, see page CH-75.
- These automatic transmissions are equipped with an ATF warmer as standard equipment to warm up ATF. For details, see page CH-5.
- All models are also equipped with an ATF cooler as an option to ensure high ATF cooling performance. For details, see page CH-5.
- To ensure drivability when a trailer is towed, the towing package uses a tow/haul control that controls the engine throttle, transmission shift schedule and shift timing.
- A low-viscosity type transmission fluid (Toyota Genuine ATF WS) is used. For details, see page CH-9.



08LCH100Y

AB60E (For 2WD Models)



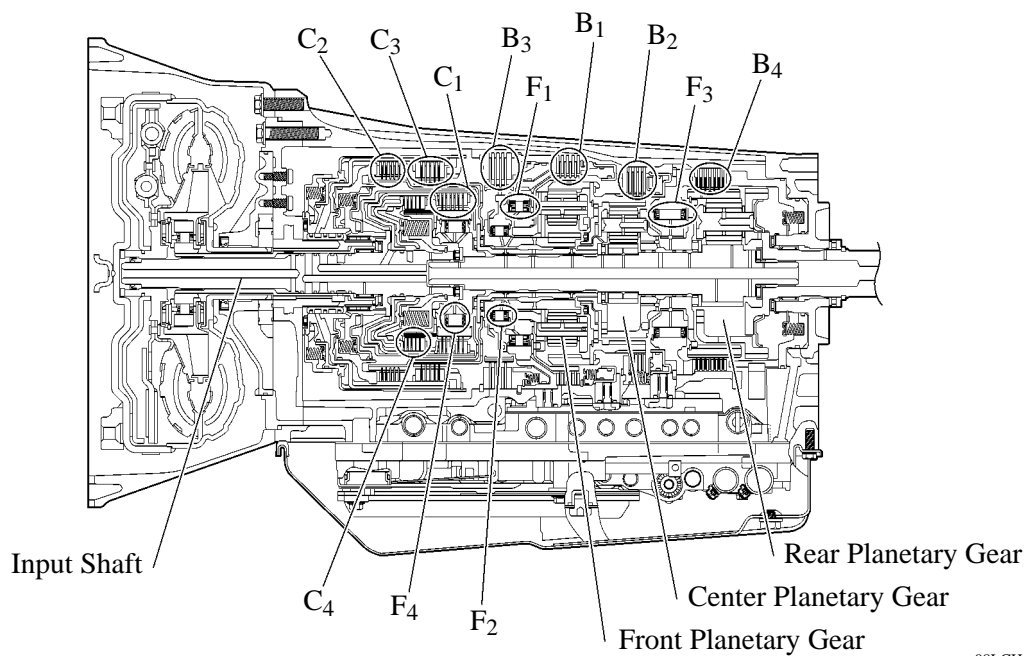
08LCH101Y

AB60F (For 4WD Models)

► Specifications ◀

Engine Type		3UR-FE	
Transmission Type		AB60E	AB60F
Drive Type		2WD	4WD
Gear Ratio	1st	3.333	←
	2nd	1.960	←
	3rd	1.353	←
	4th	1.000	←
	5th	0.728	←
	6th	0.588	←
	Reverse	3.061	←
Fluid Type		Toyota Genuine ATF WS	←
Fluid Capacity Liters (US qts, Imp. qts)	Without ATF Cooler	11.1 (11.7, 9.8)	←
	With ATF Cooler	11.7 (12.4, 10.3)	←
Weight (Reference)* kg (lb)	Without ATF Cooler	107.9 (237.9)	←
	With ATF Cooler	108.4 (239.0)	108.5 (239.2)

*: The figure shown is the weight of the part including fluid.

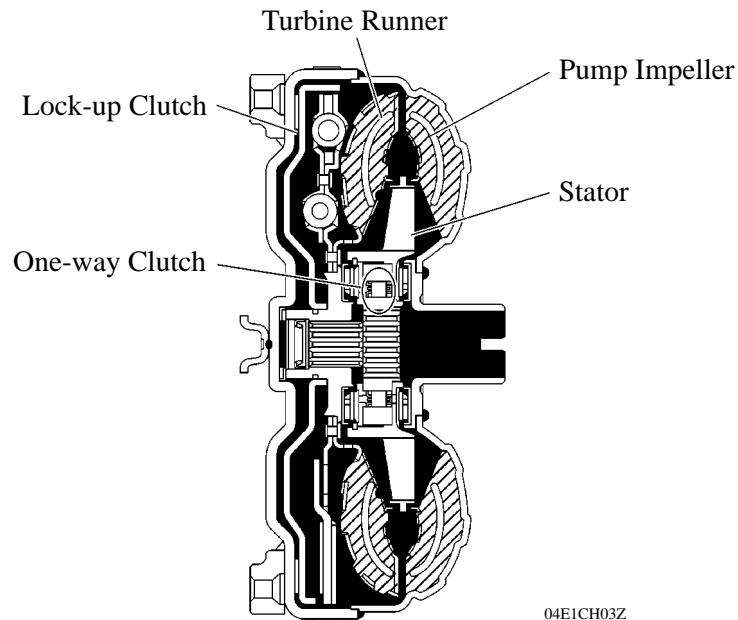


08LCH102Y

Transmission Type			AB60E, AB60F	
C ₁	No. 1 Clutch	The No. of Discs	6	
C ₂	No. 2 Clutch		5	
C ₃	No. 3 Clutch		5	
C ₄	No. 4 Clutch		4	
B ₁	No. 1 Brake		4	
B ₂	No. 2 Brake		4	
B ₃	No. 3 Brake		4	
B ₄	No. 4 Brake		7	
F ₁	No. 1 One-way Clutch	The No. of Sprags	30	
F ₂	No. 2 One-way Clutch		25	
F ₃	No. 3 One-way Clutch		33	
F ₄	No. 4 One-way Clutch		28	
Front Planetary Gear		The No. of Sun Gear Teeth		42
		The No. of Pinion Gear Teeth	Inner	19
			Outer	18
		The No. of Ring Gear Teeth		90
Center Planetary Gear		The No. of Sun Gear Teeth		30
		The No. of Pinion Gear Teeth		20
		The No. of Ring Gear Teeth		70
Rear Planetary Gear		The No. of Sun Gear Teeth		30
		The No. of Pinion Gear Teeth		20
		The No. of Ring Gear Teeth		70

■ TORQUE CONVERTER

A compact, lightweight and high-capacity torque converter is used. The torque converter supports flex lock-up clutch control, thus allowing for improved fuel economy.



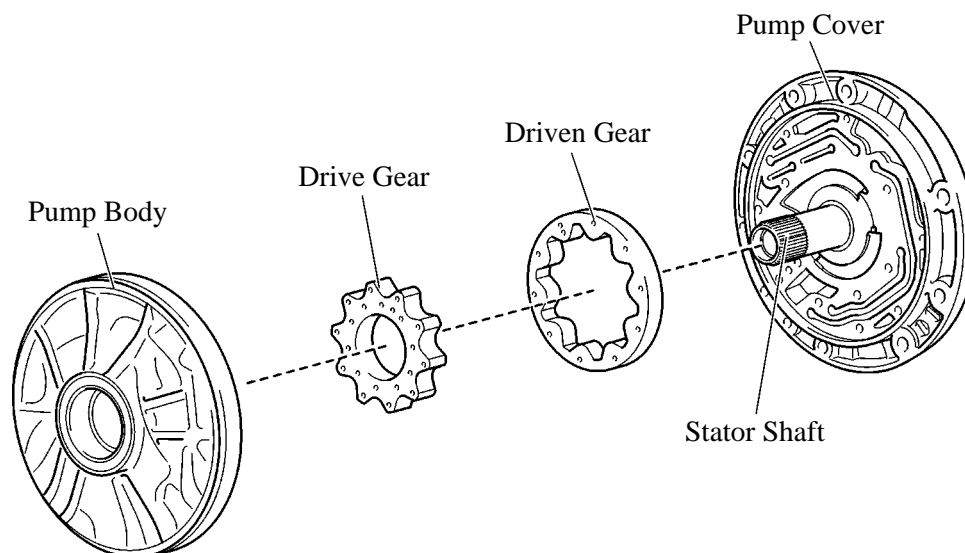
► Specifications ◀

Transmission Type	AB60E, AB60F
Torque Converter Type	3-element, 1-step, 2-phase (with Lock-up Mechanism)
Stall Torque Ratio	1.80

■ OIL PUMP

The oil pump is driven by the torque converter. It lubricates the planetary gear units and supplies operating fluid pressure for hydraulic control.

The pump cover is made of aluminum to reduce weight.

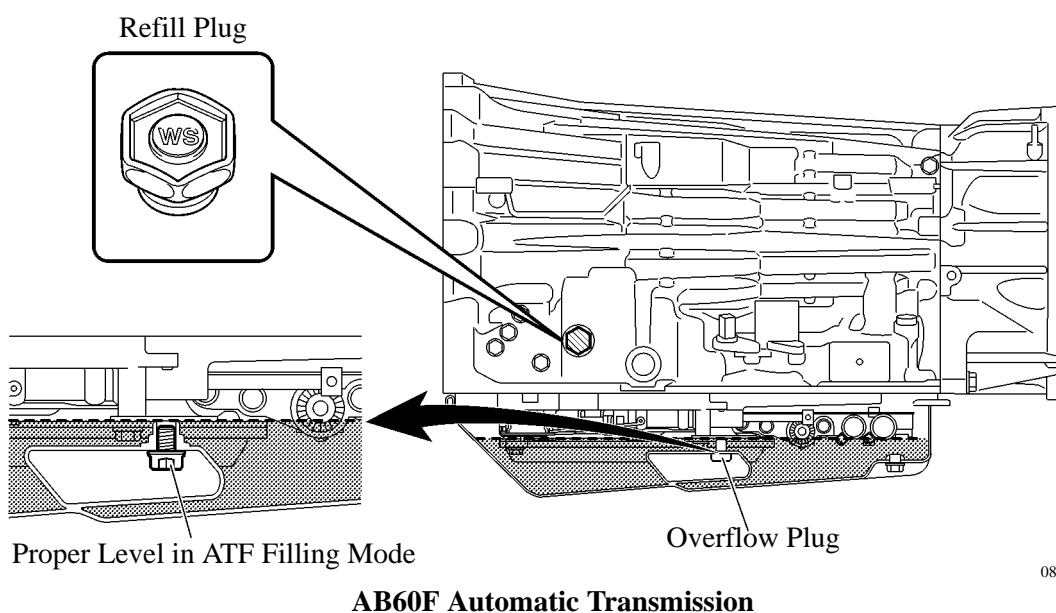
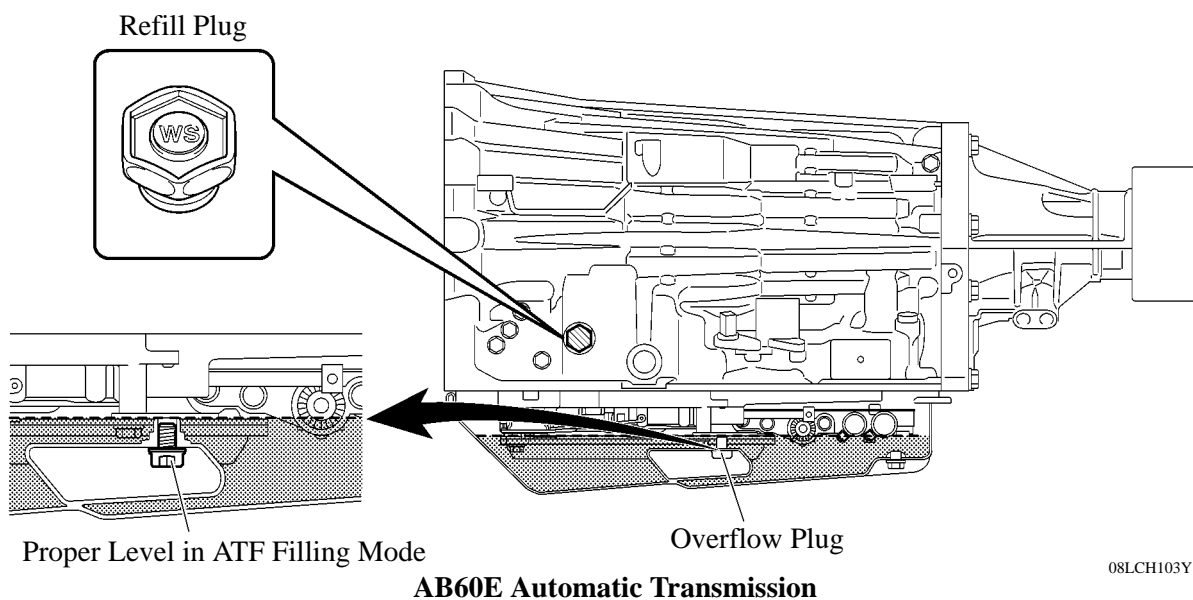


04E1CH19C

■ ATF FILLING PROCEDURE

An ATF filling procedure is used in order to improve the accuracy of the ATF level when the transmission is being repaired or replaced. As a result, the oil filler tube and the oil level gauge used in the conventional automatic transmission have been discontinued, eliminating the need to inspect the fluid level as a part of routine maintenance.

- This filling procedure uses a refill plug, overflow plug, ATF temperature sensor No. 2, and shift position indicator light “D”.
- ATF filling procedures are different between the models with an ATF cooler and the models without an ATF cooler.



Service Tip

For details about the ATF filling procedures, see the 2008 Sequoia Repair Manual (Pub. No. RM08L0U).