

AUTOMATIC TRANSMISSION (A750F)

SERVICE DATA

SS025-02

A750F (2UZ)		
Line pressure (Wheel locked)	Engine idling	
	D range	362 – 420 kPa (3.7 – 4.3 kgf·cm ² , 53 – 61 psi)
	R range	500 – 580 kPa (5.1 – 5.9 kgf·cm ² , 73 – 84 psi)
AT stall (Throttle valve fully opened)	D range	1,360 – 1,460 kPa (13.9 – 14.9 kgf·cm ² , 197 – 212 psi)
	R range	1,295 – 1,415 kPa (13.2 – 14.4 kgf·cm ² , 188 – 205 psi)
Engine stall revolution	D and R range	2,150 ± 150 rpm
Time lag	N → D range	Less than 1.2 seconds
	N → R range	Less than 1.5 seconds
Engine idle speed (A/C OFF)	N range	700 ± 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Torque converter clutch installation distance		More than 17.1 mm (0.673 in.)
Shift schedule		
D range		
(Throttle valve fully opened)	1 → 2	45 – 57 km/h (28 – 35 mph)
	2 → 3	79 – 90 km/h (49 – 56 mph)
	3 → 4	113 – 128 km/h (70 – 80 mph)
	4 → 5	165 – 180 km/h (103 – 112 mph)
	5 → 4	158 – 173 km/h (98 – 108 mph)
	4 → 3	105 – 117 km/h (65 – 73 mph)
	3 → 2	70 – 78 km/h (43 – 48 mph)
	2 → 1	35 – 41 km/h (22 – 25 mph)
(Throttle valve fully closed)	4 → 5	32 – 38 km/h (20 – 24 mph)
	5 → 4	24 – 29 km/h (15 – 18 mph)
3 range		
(Throttle valve fully opened)	1 → 2	45 – 57 km/h (28 – 35 mph)
	2 → 3	79 – 90 km/h (49 – 56 mph)
	4 → 3	119 – 132 km/h (74 – 82 mph)
	3 → 2	70 – 78 km/h (43 – 48 mph)
	2 → 1	35 – 41 km/h (22 – 25 mph)
2 range		
(Throttle valve fully opened)	1 → 2	45 – 57 km/h (28 – 35 mph)
	3 → 2	80 – 88 km/h (50 – 55 mph)
	2 → 1	35 – 41 km/h (22 – 25 mph)
L range		
(Throttle valve fully opened)	2 → 1	41 – 47 km/h (25 – 29 mph)
Lock-up point	Throttle valve opening 5 %	
D range		
5th gear	Lock-up ON	67 – 74 km/h (42 – 46 mph)
	Lock-up OFF	60 – 67 km/h (37 – 42 mph)
4 range		
4th gear	Lock-up ON	61 – 68 km/h (38 – 42 mph)
	Lock-up OFF	54 – 61 km/h (34 – 38 mph)
A750F (1HD)		
Line pressure (Wheel locked)	Engine idling	
	D range	362 – 420 kPa (3.7 – 4.3 kgf·cm ² , 53 – 61 psi)
	R range	500 – 580 kPa (5.1 – 5.9 kgf·cm ² , 73 – 84 psi)
AT stall (Throttle valve fully opened)	D range	1,360 – 1,460 kPa (13.9 – 14.9 kgf·cm ² , 197 – 212 psi)
	R range	1,295 – 1,415 kPa (13.2 – 14.4 kgf·cm ² , 188 – 205 psi)
Engine stall revolution	D and R range	2,400 ± 150 rpm

LAND CRUISER (W/G) SUP (RM970E)

SERVICE SPECIFICATIONS – AUTOMATIC TRANSMISSION (A750F)

Time lag	N → D range N → R range	Less than 1.2 seconds Less than 1.5 seconds
Engine idle speed (A/C OFF)	N range	600 ± 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Torque converter clutch installation distance		More than 17.1 mm (0.673 in.)
Shift schedule		
D range		
(Throttle valve fully opened)	1 → 2 2 → 3 3 → 4 4 → 5 5 → 4 4 → 3 3 → 2 2 → 1	34 – 46 km/h (21 – 29 mph) 60 – 71 km/h (37 – 44 mph) 90 – 100 km/h (56 – 62 mph) 125 – 140 km/h (78 – 87 mph) 117 – 130 km/h (73 – 81 mph) 83 – 91 km/h (52 – 57 mph) 51 – 58 km/h (32 – 36 mph) 25 – 31 km/h (16 – 19 mph)
(Throttle valve fully closed)	4 → 5 5 → 4	41 – 48 km/h (25 – 21 mph) 27 – 32 km/h (17 – 20 mph)
3 range		
(Throttle valve fully opened)	1 → 2 2 → 3 4 → 3 3 → 2 2 → 1	34 – 46 km/h (21 – 29 mph) 60 – 71 km/h (37 – 44 mph) 97 – 106 km/h (60 – 66 mph) 51 – 58 km/h (32 – 36 mph) 25 – 31 km/h (16 – 19 mph)
2 range		
(Throttle valve fully opened)	1 → 2 3 → 2 2 → 1	34 – 46 km/h (21 – 29 mph) 64 – 72 km/h (40 – 45 mph) 25 – 31 km/h (16 – 19 mph)
L range		
(Throttle valve fully opened)	2 → 1	32 – 38 km/h (20 – 24 mph)
Lock-up point	Throttle valve opening 5 %	
D range		
5th gear		
(Normal mode)	Lock-up ON Lock-up OFF	62 – 69 km/h (39 – 43 mph) 56 – 63 km/h (35 – 39 mph)
5th gear		
(Power mode)	Lock-up ON Lock-up OFF	70 – 78 km/h (44 – 48 mph) 64 – 71 km/h (40 – 44 mph)
4 range		
4th gear	Lock-up ON Lock-up OFF	58 – 65 km/h (36 – 40 mph) 52 – 59 km/h (32 – 37 mph)