

AUTOMATIC TRANSMISSION (A750E, A750F)

SS1MV-01

SERVICE DATA

2UZ-FE (A750E)		
Line pressure (Wheel locked)	Engine idling D position R position AT stall (Throttle valve fully opened) D position R position	361 – 421 kPa (3.7 – 4.3 kgf-cm ² , 52 – 61 psi) 495 – 576 kPa (5.0 – 5.9 kgf-cm ² , 72 – 84 psi) 1,236 – 1,332 kPa (12.6 – 13.6 kgf-cm ² , 179 – 193 psi) 1,229 – 1,349 kPa (12.5 – 13.8 kgf-cm ² , 178 – 196 psi)
Engine stall revolution	D and R positions	2,200 ± 150 rpm
Time lag	N → D position N → R position	Less than 1.2 seconds Less than 1.5 seconds
Engine idle speed (A/C OFF)	N position	700 ± 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Shift schedule		
D position (Throttle valve fully opened)	1 → 2 2 → 3 3 → 4 4 → 5 5 → 4 4 → 3 3 → 2 2 → 1	47 – 60 km/h (29 – 37 mph) 89 – 101 km/h (55 – 62 mph) 126 – 145 km/h (78 – 90 mph) 171 – 188 km/h (106 – 117 mph) 166 – 183 km/h (103 – 114 mph) 116 – 130 km/h (72 – 81 mph) 78 – 87 km/h (48 – 54 mph) 36 – 43 km/h (22 – 27 mph)
(Throttle valve fully closed)	4 → 5 5 → 4	46 – 53 km/h (29 – 33 mph) 23 – 29 km/h (14 – 18 mph)
4 position (O/D OFF) (Throttle valve fully opened)	1 → 2 2 → 3 3 → 4 5 → 4 4 → 3 3 → 2 2 → 1	47 – 60 km/h (29 – 37 mph) 89 – 101 km/h (55 – 62 mph) 126 – 145 km/h (78 – 90 mph) 182 – 200 km/h (113 – 124 mph) 116 – 130 km/h (72 – 81 mph) 78 – 87 km/h (48 – 54 mph) 36 – 43 km/h (22 – 27 mph)
3 position (Throttle valve fully opened)	1 → 2 2 → 3 4 → 3 3 → 2 2 → 1	47 – 60 km/h (29 – 37 mph) 89 – 101 km/h (55 – 62 mph) 127 – 142 km/h (79 – 88 mph) 78 – 87 km/h (48 – 54 mph) 36 – 43 km/h (22 – 27 mph)
2 position (Throttle valve fully opened)	1 → 2 3 → 2 2 → 1	47 – 60 km/h (29 – 37 mph) 84 – 97 km/h (52 – 60 mph) 36 – 43 km/h (22 – 27 mph)
L position (Throttle valve fully opened)	2 → 1	36 – 43 km/h (22 – 27 mph)
Lock-up point	Throttle valve opening 5 %	
D position		
5th gear	Lock-up ON Lock-up OFF	66 – 74 km/h (41 – 46 mph) 59 – 67 km/h (37 – 42 mph)
4 position		
4th gear	Lock-up ON Lock-up OFF	107 – 118 km/h (66 – 73 mph) 100 – 111 km/h (62 – 69 mph)

SERVICE SPECIFICATIONS – AUTOMATIC TRANSMISSION (A750E, A750F)

2UZ-FE (A750F)		
Line pressure (Wheel locked)	Engine idling	
	D position	361 – 421 kPa (3.7 – 4.3 kgf·cm ² , 52 – 61 psi)
	R position	495 – 576 kPa (5.0 – 5.9 kgf·cm ² , 72 – 84 psi)
	AT stall (Throttle valve fully opened)	
	D position	1,236 – 1,332 kPa (12.6 – 13.6 kgf·cm ² , 179 – 193 psi)
	R position	1,229 – 1,349 kPa (12.5 – 13.8 kgf·cm ² , 178 – 196 psi)
Engine stall revolution	D and R positions	2,200 ± 150 rpm
Time lag	N → D position	Less than 1.2 seconds
	N → R position	Less than 1.5 seconds
Engine idle speed (A/C OFF)	N position	700 ± 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Shift schedule		
D position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	88 – 101 km/h (55 – 62 mph)
	3 → 4	126 – 145 km/h (78 – 90 mph)
	4 → 5	170 – 188 km/h (106 – 117 mph)
	5 → 4	165 – 182 km/h (103 – 113 mph)
	4 → 3	116 – 130 km/h (72 – 81 mph)
	3 → 2	78 – 87 km/h (48 – 54 mph)
	2 → 1	36 – 43 km/h (22 – 27 mph)
(Throttle valve fully closed)	4 → 5	46 – 53 km/h (29 – 33 mph)
	5 → 4	23 – 29 km/h (14 – 18 mph)
4 position (O/D OFF) (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	88 – 101 km/h (55 – 62 mph)
	3 → 4	126 – 145 km/h (78 – 90 mph)
	5 → 4	181 – 199 km/h (112 – 124 mph)
	4 → 3	116 – 130 km/h (72 – 81 mph)
	3 → 2	78 – 87 km/h (48 – 54 mph)
	2 → 1	36 – 43 km/h (22 – 27 mph)
3 position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	88 – 101 km/h (55 – 62 mph)
	4 → 3	127 – 142 km/h (79 – 88 mph)
	3 → 2	78 – 87 km/h (48 – 54 mph)
	2 → 1	36 – 43 km/h (22 – 27 mph)
2 position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	3 → 2	84 – 97 km/h (52 – 60 mph)
	2 → 1	36 – 43 km/h (22 – 27 mph)
L position (Throttle valve fully opened)	2 → 1	36 – 43 km/h (22 – 27 mph)
Lock-up point	Throttle valve opening 5 %	
D position		
5th gear	Lock-up ON	66 – 74 km/h (41 – 46 mph)
	Lock-up OFF	59 – 67 km/h (37 – 42 mph)
4 position		
4th gear	Lock-up ON	107 – 118 km/h (66 – 73 mph)
	Lock-up OFF	100 – 110 km/h (62 – 68 mph)

1GR-FE (A750E)		
Line pressure (Wheel locked)	Engine idling	
	D position	363 – 423 kPa (3.7 – 4.3 kgf·cm ² , 53 – 61 psi)
	R position	484 – 564 kPa (4.9 – 5.8 kgf·cm ² , 70 – 82 psi)
	AT stall (Throttle valve fully opened)	
	D position	1,282 – 1,381 kPa (13.1 – 14.1 kgf·cm ² , 186 – 200 psi)
	R position	1,218 – 1,338 kPa (12.4 – 13.6 kgf·cm ² , 177 – 194 psi)
Engine stall revolution	D and R positions	2,400 ± 150 rpm
Time lag	N → D position	Less than 1.2 seconds
	N → R position	Less than 1.5 seconds
Engine idle speed (A/C OFF)	N position	700 ± 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Shift schedule		
D position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	92 – 105 km/h (57 – 65 mph)
	3 → 4	133 – 153 km/h (83 – 95 mph)
	4 → 5	170 – 188 km/h (106 – 117 mph)
	5 → 4	163 – 180 km/h (101 – 112 mph)
	4 → 3	118 – 133 km/h (73 – 83 mph)
	3 → 2	79 – 88 km/h (49 – 55 mph)
	2 → 1	37 – 44 km/h (23 – 27 mph)
	4 → 5	44 – 51 km/h (27 – 32 mph)
	5 → 4	26 – 32 km/h (16 – 20 mph)
(Throttle valve fully closed)		
4 position (O/D OFF) (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	92 – 105 km/h (57 – 65 mph)
	3 → 4	133 – 153 km/h (83 – 95 mph)
	5 → 4	182 – 200 km/h (113 – 124 mph)
	4 → 3	118 – 133 km/h (73 – 83 mph)
	3 → 2	79 – 88 km/h (49 – 55 mph)
	2 → 1	37 – 44 km/h (23 – 27 mph)
3 position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	2 → 3	92 – 105 km/h (57 – 65 mph)
	4 → 3	127 – 142 km/h (79 – 88 mph)
	3 → 2	79 – 88 km/h (49 – 55 mph)
	2 → 1	37 – 44 km/h (23 – 27 mph)
2 position (Throttle valve fully opened)	1 → 2	47 – 60 km/h (29 – 37 mph)
	3 → 2	84 – 97 km/h (52 – 60 mph)
	2 → 1	37 – 44 km/h (23 – 27 mph)
L position (Throttle valve fully opened)	2 → 1	40 – 47 km/h (25 – 29 mph)
Lock-up point Throttle valve opening 5 %		
D position		
5th gear	Lock-up ON	65 – 73 km/h (40 – 45 mph)
	Lock-up OFF	58 – 66 km/h (36 – 41 mph)
4 position		
4th gear	Lock-up ON	65 – 73 km/h (40 – 45 mph)
	Lock-up OFF	58 – 66 km/h (36 – 41 mph)