AUTOMATIC TRANSMISSION / TRANSAXLE

030A9–08

SERVICE DATA

3RZ – FE		
Line pressure (Wheel locked)		
	Engine idling	
	D range	376 – 436 kPa (3.8 – 4.5 kgf·cm^2, 54 – 63 psi)
	R range	534 – 634 kPa (5.4 – 6.5 kgf·cm^2, 77 – 92 psi)
	AT stall (Throttle valve fully opened)	
	D range	999 – 1,117 kPa (10.2 – 11.4 kgf·cm^2, 114 – 162 psi)
	R range	1,235 – 1,575 kPa (12.6 – 16.1 kgf·cm^2, 179 – 228 psi)
Engine stall revolution	D and R range	2,000 ± 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 clutch runout	Max.	0.30 mm (0.0118 in.)
Torque converter correct distance		More than 31.75 (More than 1.2500 in.)
Differential oil seal drive in depth	LH side	5.3 ± 0.5 mm (0.209 ± 0.020 in.)
	RH side	2.0 ± 0.5 mm (0.079 ± 0.020 in.)
Throttle cable adjustment (Throttle valve fully closed)		Between bolt and face and inner cable stopper 0 – 1 mm (0 – 0.04 in.)
Shift schedule		
D range		
(Throttle valve fully opened)	1 → 2	51 – 61 km/h (31.7 – 37.9 mph)
	2 → 3	94 – 109 km/h (58.4 – 67.7 mph)
	3 → 4	125 – 142 km/h (77.7 – 88.2 mph)
	4 → 3	119 – 135 km/h (73.9 – 83.4 mph)
	3 → 2	86 – 101 km/h (53.4 – 62.8 mph)
	2 → 1	40 – 49 km/h (24.9 – 30.4 mph)
(Throttle valve fully closed)	3 → 4	29 – 37 km/h (18.0 – 23.0 mph)
	4 → 3	21 – 29 km/h (13.0 – 18.0 mph)
2 range		
(Throttle valve fully opened)	1 → 2	51 – 61 km/h (31.7 – 37.9 mph)
	3 → 2	98 – 114 km/h (60.9 – 70.8 mph)
	2 → 1	40 – 49 km/h (24.9 – 30.4 mph)
L range		
(Throttle valve fully opened)	2 → 1	47 – 56 km/h (29.2 – 34.8 mph)
Lock–up point	Throttle valve opening 5 %	
O/D gear	Lock–up ON	72 – 82 km/h (44.7 – 51.0 mph)
	Lock–up OFF	66 – 76 km/h (41.0 – 47.2 mph)
3rd gear	Lock–up ON	62 – 72 km/h (38.5 – 44.7 mph)
	Lock–up OFF	56 – 65 km/h (34.8 – 40.4 mph)
1KZ – TE		
Line pressure (Wheel locked)		
	Engine idling	
	D range	323 – 382 kPa (3.3 – 3.9 kgf·cm^2, 46.8 – 55.4 psi)
	R range	500 – 598 kPa (5.1 – 6.1 kgf·cm^2, 72.5 – 86.8 psi)
	AT stall (Throttle valve fully opened)	
	D range	1,137 – 1,274 kPa (11.6 – 13.0 kgf·cm^2, 165 – 184.8 psi)
	R range	1,499 – 1,833 kPa (15.3 – 18.7 kgf·cm^2, 217 – 265.8 psi)
Engine stall revolution	D and R range	2,550 ± 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 clutch runout	Max.	0.30 mm (0.0118 in.)
Torque converter clutch correct distance		More than 44.67 mm (More than 1.7587 in.)
Shift schedule		
D range		
(Throttle valve fully opened)	1 → 2	42 – 51 km/h (26.0 – 31.7 mph)
	2 → 3	79 – 90 km/h (49.1 – 55.9 mph)
	3 → 4	118 – 135 km/h (73.3 – 83.9 mph)
	4 → 3	111 – 128 km/h (69.0 – 79.5 mph)
	3 → 2	70 – 81 km/h (43.5 – 49.7 mph)
	2 → 1	33 – 41 km/h (20.5 – 25.5 mph)
(Throttle valve fully closed)	3 → 4	44 – 53 km/h (27.3 – 32.9 mph)
	4 → 3	36 – 45 km/h (22.4 – 28.0 mph)
2 range		
(Throttle valve fully opened)	1 → 2	42 – 51 km/h (26.1 – 31.7 mph)
	3 → 2	88 – 100 km/h (54.7 – 62.1 mph)
	2 → 1	33 – 41 km/h (20.5 – 25.5 mph)
L range		
(Throttle valve fully opened)	2 → 1	51 – 61 km/h (31.7 – 53.4 mph)
Lock–up point	Throttle valve opening 5 %	
O/D gear	Lock–up ON	75 – 86 km/h (46.6 – 53.4 mph)
	Lock–up OFF	54 – 64 km/h (33.6 – 39.8 mph)
3rd gear	Lock–up ON	62 – 72 km/h (38.5 – 44.7 mph)
	Lock–up OFF	56 – 66 km/h (34.8 – 41.0 mph)
1KD – FTV		
Line pressure (Wheel locked)		
	Engine idling	
	D range	323 – 382 kPa (3.3 – 3.9 kgf·cm^2, 46.8 – 55.4 psi)
	R range	500 – 598 kPa (5.1 – 6.1 kgf·cm^2, 72.5 – 86.8 psi)
	AT stall (Throttle valve fully opened)	
	D range	1,137 – 1,274 kPa (11.6 – 13.0 kgf·cm^2, 165 – 184.8 psi)
	R range	1,499 – 1,833 kPa (15.3 – 18.7 kgf·cm^2, 217 – 265.8 psi)
Engine stall revolution	D and R range	2,550 ± 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 clutch runout	Max.	0.30 mm (0.0118 in.)
Torque converter clutch correct distance		More than 44.67 mm (More than 1.7587 in.)
Shift schedule		
D range		
(Throttle valve fully opened)	1 → 2	42 – 51 km/h (26.1 – 31.7 mph)
	2 → 3	77 – 88 km/h (47.8 – 54.7 mph)
	3 → 4	116 – 133 km/h (72.1 – 82.6 mph)
	4 → 3	109 – 125 km/h (67.7 – 77.7 mph)
	3 → 2	68 – 79 km/h (42.2 – 49.1 mph)
	2 → 1	32 – 40 km/h (19.9 – 24.9 mph)
(Throttle valve fully closed)	3 → 4	42 – 51 km/h (26.1 – 31.7 mph)
	4 → 3	34 – 43 km/h (21.1 – 26.7 mph)
2 range		
(Throttle valve fully opened)	1 → 2	42 – 51 km/h (26.1 – 31.7 mph)
	3 → 2	84 – 96 km/h (52.2 – 59.7 mph)
	2 → 1	32 – 40 km/h (19.9 – 24.9 mph)
Lrange (Throttle valve opened)	2 → 1	49 – 58 km/h (30.4 – 36.0 mph)
Lock–up point	Throttle valve opening 5 %	
O/D gear	Lock–up ON	72 – 82 km/h (44.7 – 51.0 mps)
	Lock–up OFF	51 – 61 km/h (31.7 – 37.9 mps)
3rd gear	Lock–up ON	59 – 69 km/h (36.7 – 42.9 mps)
	Lock–up OFF	53 – 63 km/h (32.9 – 39.1 mps)