AUTOMATIC TRANSMISSION (A340E, A340F) SERVICE DATA

SS053-05

Line pressure (Mheel leeked)		
Line pressure (Wheel locked) (3RZ–FE)		
(SNZ-FL)	Engine idling	
	D position	377 – 436 kPa (3.8 – 4.4 kgf/cm ² , 55 – 62 psi)
•		536 – 634 kPa (5.5 – 6.5 kgf/cm ² , 78 – 92 psi)
R position at stall (Throttle valve fully opened)		350 054 ki α (5.5 0.5 kg//ciii , 70 32 μsi)
at stall (Till	D position	1,037 – 1,174 kPa (10.6 – 12.0 kgf/cm², 150 – 170 psi)
	R position	1,310 – 1,643 kPa (13.4 – 16.8 kgf/cm², 190 – 238 psi)
	T pooliion	The second of th
(5VZ-FE)		
	Engine idling	
	D position	382 - 441 kPa (3.9 - 4.5 kgf/cm ² , 55 - 64 psi)
	R position	588 – 686 kPa (6.0 – 7.0 kgf/cm², 85 – 100 psi)
at stall (Thre	ottle valve fully opened)	
	D position	1,089 – 1,226 kPa (11.1 – 12.5 kgf/cm ² , 158 – 178 psi)
	R position	1,461 – 1,794 kPa (14.9 – 18.3 kgf/cm ² , 212 – 260 psi)
Engine stall revolution (D and R positions)	3RZ-FE	2,450 ± 150 rpm
	5VZ-FE	2,250 ± 150 rpm
Time lag	$N \rightarrow D$ position	Less than 1.2 seconds
	$N \to R$ position	Less than 1.5 seconds
Engine idle speed		
(A/C OFF and N position)		700 ± 50 rpm
Extension housing oil seal drive in depth from flat end		0 – 0.3 mm (0 – 0.012 in.)
Throttle cable adjustment		Between boot end face and inner cable stopper
(Throttle valve fully opened)		0 – 1 mm (0 – 0.04 in.)
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Torque converter installation distance	3R-FE	More than 31.75 mm (1.2500 in.)
	5VZ-FE	More than 17.95 mm (0.7067 in.)

2003 TOYOTA TACOMA (RM1002U)

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Lock-up point (NORM and PWR pattern)		
(3RZ-FE / A340E)	Tire size: P265 / 70R16	
D position		
(Throttle valve opening 5%)	Lock-up ON	82 – 86 km/h (51 – 53 mph)
	Lock-up OFF	75 – 79 km/h (47 – 49 mph)
(3RZ-FE / A340E)	Tire size: P225 / 75R15	
D position		
(Throttle valve opening 5%)	Lock-up ON	83 – 87 km/h (52 – 54 mph)
	Lock-up OFF	76 – 81 km/h (47 – 50 mph)
(3RZ-FE / A340F)	Tire size: P265 / 70R16	
D position		
(Throttle valve opening 5%)	Lock-up ON	76 – 81 km/h (47 – 50 mph)
	Lock-up OFF	70 – 75 km/h (44 – 47 mph)
(3RZ-FE / A340F)	Tire size: P225 / 75R15	
D position		
(Throttle valve opening 5%)	Lock-up ON	78 – 83 km/h (48 – 52 mph)
	Lock-up OFF	72 – 77 km/h (45 – 48 mph)
(5VZ-FE / A340E)	Tire size: P265 / 70R16	
D position		
(Throttle valve opening 5%)	Lock-up ON	73 – 78 km/h (45 – 48 mph)
	Lock-up OFF	66 – 71 km/h (41 – 44 mph)
(5VZ-FE / A340E)	Tire size: P225 / 75R15	
D position		
(Throttle valve opening 5%)	Lock-up ON	` ' '
	Lock-up OFF	64 – 69 km/h (40 – 43 mph)
(5VZ–FE / A340F)	Tire size: P265 / 70R16	
D position		70 701 # (45 40 1)
(Throttle vale opening 5%)	Lock-up ON	
	Lock-up OFF	66 – 71 km/h (41 – 44 mph)
(5VZ–FE / A340F)	Tire size: P225 / 75R15	
D position	THE SIZE. FZZ0 / / OR 10	
'	Lock-up ON	71 76 km/h (44 47 mph)
(Throttle vale opening 5%)	Lock-up OFF	71 – 76 km/h (44 – 47 mph) 64 – 69 km/h (40 – 43 mph)
	Lock-up OFF	04 - 03 KII/II (40 - 43 IIIPII)

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Shift schedule (NORM and PWR pattern)	Time sines B005 / 705 10	
(3RZ–FE / A340E)	Tire size: P265 / 70R16	
D position		
(Throttle valve fully opened)		58 – 63 km/h (36 – 39 mph)
		107 – 114 km/h (66 – 71 mph)
	$3 \rightarrow O/D$	141 – 149 km/h (88 – 93 mph)
	$O/D \rightarrow 3$	135 – 142 km/h (84 – 88 mph)
	$3 \rightarrow 2$	98 – 106 km/h (61 – 66 mph)
	$2 \rightarrow 1$	46 – 51 km/h (29 – 32 mph)
(Throttle valve fully closed)	$3 \rightarrow \text{O/D}$	34 – 38 km/h (21 – 24 mph)
	$\text{O/D} \rightarrow 3$	25 – 30 km/h (16 – 19 mph)
2 position		
(Throttle valve fully opened)	$1 \rightarrow 2$	58 – 63 km/h (36 – 39 mph)
	$3 \rightarrow 2$	112 – 119 km/h (70 – 74 mph)
	$2 \rightarrow 1$	46 – 51 km/h (29 – 32 mph)
L position		
(Throttle valve fully opened)	$3 \rightarrow 2$	95 – 103 km/h (59 – 64 mph)
()	$2 \rightarrow 1$	
	2 / 1	or sommittee somply
(3RZ–FE / A340E)	Tire size: P225 / 75R15	
D position	1110 3120.1 220 / 701(10	
(Throttle valve fully opened)	1 \ 2	58 – 64 km/h (36 – 40 mph)
(Thiothe valve fully opened)		107 – 116 km/h (66 – 72 mph)
	$2 \rightarrow 3$ $3 \rightarrow O/D$	144 – 152 km/h (89 – 94 mph)
		, , ,
	$O/D \rightarrow 3$, , ,
		98 – 108 km/h (61 – 67 mph)
(Therefore the following to a set)	$2 \rightarrow 1$	
(Throttle valve fully closed)	$3 \rightarrow O/D$	35 – 39 km/h (22 – 24 mph)
- "	$O/D \rightarrow 3$	26 – 30 km/h (16 – 19 mph)
2 position		
(Throttle valve fully opened)		57 – 61 km/h (35 – 38 mph)
		114 – 121 km/h (71 – 75 mph)
	$2 \rightarrow 1$	45 – 49 km/h (28 – 30 mph)
L position		
(Throttle valve fully opened)	$3 \rightarrow 2$	97 – 105 km/h (60 – 65 mph)
	$2 \rightarrow 1$	55 – 59 km/h (34 – 37 mph)
(3RZ-FE / A340F)	Tire size: P265 / 70R16	
D position		
(Throttle valve fully opened)	$1 \rightarrow 2$	54 – 59 km/h (34 – 37 mph)
	$2 \rightarrow 3$	99 – 108 km/h (62 – 67 mph)
	$3 \rightarrow \text{O/D}$	132 – 140 km/h (82 – 87 mph)
	$\text{O/D} \rightarrow 3$	126 – 134 km/h (78 – 83 mph)
	$3 \rightarrow 2$	
	$2 \rightarrow 1$	l · · · · · · · · · · · · · · · · · · ·
(Throttle valve fully closed)	$3 \rightarrow O/D$	
, , , , , , , , , , , , , , , , , , , ,	$O/D \rightarrow 3$	` '
2 position	· · ·	
(Throttle valve fully opened)	1 → 2	54 – 59 km/h (34 – 37 mph)
(104 – 112 km/h (65 – 70 mph)
	$3 \rightarrow 2$ $2 \rightarrow 1$	
L position	2 → 1	TO TO MINII (21 – 30 IIIPII)
	0 . 0	90 07 km/h (55 60 mph)
(Throttle valve fully opened)		89 – 97 km/h (55 – 60 mph)
	2 → 1	50 – 55 km/h (31 – 34 mph)

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(3RZ-FE / A340F)	Tire size: P225 / 75R15	
D position	1110 0120. 1 220 / 101(10	
(Throttle valve fully opened)	$1 \rightarrow 2$	56 – 61 km/h (35 – 38 mph)
(The the fair of the fair	$2 \rightarrow 3$	` ' '
	$3 \rightarrow O/D$	135 – 144 km/h (84 – 89 mph)
	$O/D \rightarrow 3$	
	$3 \rightarrow 2$	94 – 103 km/h (58 – 64 mph)
		44 – 49 km/h (27 – 30 mph)
(Throttle valve fully closed)		33 – 37 km/h (21 – 23 mph)
	O/D ightarrow 3	24 – 29 km/h (15 – 18 mph)
2 position		
(Throttle valve fully opened)	$1 \rightarrow 2$	56 – 61 km/h (34 – 38 mph)
	$3 \rightarrow 2$	107 – 116 km/h (66 – 72 mph)
	$2 \rightarrow 1$	44 – 49 km/h (27 – 30 mph)
L position		
(Throttle valve fully opened)	$3 \rightarrow 2$	91 – 100 km/h (57 – 62 mph)
	$2 \rightarrow 1$	52 – 56 km/h (32 – 35 mph)
(5VZ-FE / A340E)	Tire size: P265 / 70R16	
D position		
(Throttle valve fully opened)	1 → 2	58 – 63 km/h (36 – 39 mph)
	$2 \rightarrow 3$	109 – 117 km/h (68 – 73 mph)
	$3 \rightarrow \text{O/D}$	147 – 156 km/h (91 – 97 mph)
	$O/D \rightarrow 3$	140 – 149 km/h (87 – 93 mph)
	$3 \rightarrow 2$	100 – 109 km/h (62 – 68 mph)
	$2 \rightarrow 1$	46 – 50 km/h (29 – 31 mph)
(Throttle valve fully closed)	$3 \rightarrow \text{O/D}$	42 – 47 km/h (26 – 29 mph)
	$O/D \rightarrow 3$	22 – 27 km/h (14 – 18 mph)
2 position		
(Throttle valve fully opened)		58 – 63 km/h (36 – 39 mph)
	$3 \rightarrow 2$	` , ,
	$2 \rightarrow 1$	46 – 50 km/h (29 – 31 mph)
L position		
(Throttle valve fully opened)		99 – 107 km/h (62 – 68 mph)
/	$2 \rightarrow 1$	56 – 61 km/h (35 – 38 mph)
(5VZ-FE / A340E)	Tire size: P225 / 75R15	
D position	4 0	50 041 # (05 00 1)
(Throttle valve fully opened)		56 – 61 km/h (35 – 38 mph)
	$2 \rightarrow 3$	105 – 114 km/h (65 – 71 mph)
	$3 \rightarrow \text{O/D}$	142 – 152 km/h (88 – 94 mph)
	$O/D \rightarrow 3$	
	$3 \rightarrow 2$	` ,
(There the coefficient following and		44 – 49 km/h (27 – 30 mph)
(Throttle valve fully closed)	$3 \rightarrow O/D$	` '
2 position	$O/D \rightarrow 3$	22 – 26 km/h (14 – 16 mph)
2 position (Throttle valve fully enemed)	1 . 0	56 61 km/h (35 39 mph)
(Throttle valve fully opened)	$1 \rightarrow 2$	56 – 61 km/h (35 – 38 mph)
	$3 \rightarrow 2$ $2 \rightarrow 1$	` ' '
L position	$Z \rightarrow I$	++ - +2 MINII (21 - 30 IIIPII)
(Throttle valve fully opened)	$2 \rightarrow 1$	95 – 105 km/h (59 – 65 mph)
(Thome valve raily opened)		54 – 59 km/h (34 – 37 mph)
<u>. </u>	2 → 1	от оо мил (о т – от шрп)

(5VZ–FE / A340F)	Tire size: P265 / 70R16	
D position		
(Throttle valve fully opened)	$1 \rightarrow 2$	58 – 63 km/h (36 – 39 mph)
	$2 \rightarrow 3$	109 – 117 km/h (68 – 73 mph)
	$3 \rightarrow \text{O/D}$	147 – 156 km/h (91 – 97 mph)
	O/D ightarrow 3	140 – 149 km/h (87 – 93 mph)
	$3 \rightarrow 2$	100 – 109 km/h (62 – 68 mph)
	$2 \rightarrow 1$	46 – 50 km/h (29 – 31 mph)
(Throttle valve fully closed)	$3 \rightarrow \text{O/D}$	42 – 47 km/h (26 – 29 mph)
	O/D ightarrow 3	22 – 27 km/h (14 – 18 mph)
2 position		
(Throttle valve fully opened)	$1 \rightarrow 2$	58 – 63 km/h (36 – 39 mph)
	$3 \rightarrow 2$	116 – 125 km/h (72 – 78 mph)
	$2 \rightarrow 1$	46 – 50 km/h (29 – 31 mph)
L position		
(Throttle valve fully opened)	$3 \rightarrow 2$	99 – 107 km/h (62 – 68 mph)
	$2 \rightarrow 1$	56 - 61 km/h (35 - 38 mph)
(5VZ–FE / A340F)	Tire size: P225 / 75R15	
D position		50 041 (1 (05 00 1)
(Throttle valve fully opened)		56 – 61 km/h (35 – 38 mph)
		105 – 114 km/h (65 – 71 mph)
		142 – 152 km/h (88 – 94 mph)
		135 – 145 km/h (84 – 90 mph)
		97 – 106 km/h (60 – 66 mph)
(There the seal of falls alone d)		44 – 49 km/h (27 – 30 mph)
(Throttle valve fully closed)		41 – 46 km/h (25 – 29 mph)
2 position	$O/D \rightarrow 3$	22 – 26 km/h (14 – 16 mph)
2 position	4 . 0	EC C1 km/h /25 29 mmh)
(Throttle valve fully opened)		56 – 61 km/h (35 – 38 mph)
		112 – 121 km/h (70 – 75 mph)
Lagaitian	$2 \rightarrow 1$	44 – 49 km/h (27 – 30 mph)
L position	0 : 4	05 405 km/h /50 C5 mnh)
(Throttle valve fully opened)		95 – 105 km/h (59 – 65 mph)
	$2 \rightarrow 1$	54 – 59 km/h (34 – 37 mph)

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