

SERVICE SPECIFICATIONS

SERVICE DATA

Line pressure (wheel locked)	Engine idling			
	D position	363 – 422 kPa	3.7 – 4.3 kgf/cm ²	53 – 61 psi
	R position	490 – 588 kPa	5.0 – 6.0 kgf/cm ²	71 – 85 psi
	AT stall (Throttle valve fully opened)			
	D position	932 – 1,177 kPa	9.5 – 12.0 kgf/cm ²	135 – 171 psi
	R position	1,294 – 1,638 kPa	13.2 – 16.7 kgf/cm ²	188 – 238 psi
Engine stall revolution (D and R position)	A340E	2,450 ± 150 rpm		
	A340F	2,200 ± 150 rpm		
Time lag	N → D position	Less than 1.2 seconds		
	N → R position	Less than 1.5 seconds		
Engine idling speed (A/C OFF)	A340E (N position)	800 ± 50 rpm		
	A340F (N position)	750 ± 50 rpm		
Throttle cable adjustment		Between boot end face and inner cable stopper		
Throttle valve fully opened		0 – 1 mm	0 – 0.04 in.	
Torque converter clutch installation distance		20.0 mm	0.787 in.	
Drive plate runout	Max	0.20 mm	0.0079 in.	
Torque converter clutch sleeve runout	Max	0.30 mm	0.0118 in.	

AUTOMATIC SHIFT SCHEDULE

A340E

SHIFT POINT

Shift position	Shifting point	Vehicle speed km/h (mph)
D (NORM)	Throttle valve fully opened 1→2	58–82 (36–39)
	2→3	103–111 (64–69)
	3→O/D	143–151 (89–94)
	O/D→3	136–144 (85–90)
	3→2	95–99 (59–62)
	2→1	46–49 (28–30)
	Throttle valve fully closed 3→O/D	41–46 (25–29)
	O/D→3	25–29 (16–18)
D (PWR)	Throttle valve fully opened 1→2	58–82 (36–39)
	2→3	113–120 (70–75)
	3→O/D	147–154 (91–96)
	O/D→3	140–149 (87–93)
	3→2	105–112 (65–70)
	2→1	45–49 (28–30)
	Throttle valve fully closed 3→O/D	45–49 (28–30)
	O/D→3	25–29 (16–18)
2 (NORM and PWR)	Throttle valve fully opened 1→2	50–54 (31–34)
	2→3	120–127 (75–79)
	3→2	113–121 (70–75)
	2→1	45–49 (28–30)
L (NORM and PWR)	Throttle valve fully opened 3→2	96–104 (60–65)
	2→1	55–59 (34–37)

LOCK-UP POINT

D position Throttle valve opening 5%	Lock-up ON km/h (mph)	Lock-up OFF km/h (mph)
*3rd Gear (NORM)	75–79 (47–49)	68–72 (42–45)
*3rd Gear (PWR)	65–69 (40–43)	58–62 (36–39)
O/D Gear (NORM)	75–79 (47–49)	65–69 (40–43)
O/D Gear (PWR)	75–79 (47–49)	68–72 (42–45)

* : O/D main switch OFF

A340F

SHIFT POINT

Shift position	Shifting point		Vehicle speed km/h (mph)
D (NORM)	Throttle valve fully opened	1→2	44–48 (27–30)
		2→3	93–99 (58–61)
		3→O/D	134–141 (83–87)
		O/D→3	128–135 (79–84)
	Throttle valve fully closed	3→2	87–94 (54–58)
		2→1	40–43 (25–27)
		3→O/D	35–39 (22–24)
		O/D→3	21–25 (13–16)
D (PWR)	Throttle valve fully opened	1→2	47–51 (29–32)
		2→3	93–99 (58–61)
		3→O/D	148–155 (92–96)
		O/D→3	143–149 (89–92)
	Throttle valve fully closed	3→2	87–94 (54–58)
		2→1	41–45 (25–28)
		3→O/D	50–53 (31–33)
		O/D→3	21–25 (13–16)
2 (NORM and PWR)	Throttle valve fully opened	1→2	43–46 (27–29)
		2→3	103–109 (64–68)
		3→2	97–103 (60–64)
		2→1	38–42 (24–26)
L (NORM and PWR)	Throttle valve fully opened	3→2	82–89 (51–55)
		2→1	47–51 (29–32)

LOCK-UP POINT

D position	Lock-up ON km/h (mph)	Look-up OFF km/h (mph)
Throttle valve opening 5%		
*3rd Gear (NORM)	41–45 (25–28)	38–42 (24–26)
*3rd Gear (PWR)	55–59 (34–37)	50–53 (31–33)
O/D Gear (NORM)	59–63 (37–39)	55–59 (34–37)
O/D Gear (PWR)	75–79 (47–49)	70–73 (43–45)

* : O/D main switch OFF

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Oil cooler pipe union nut	34	350	25
Torque converter clutch x Drive plate	41	420	30
Drive plate x Crankshaft	83	850	61
Extension housing x Transmission housing (A340E)	34	345	25
Parking lock pawl bracket	7.4	75	65 in·lbf
Valve body x Transmission	10	100	7
Detent spring x Valve body	10	100	7
Solenoid x Valve body	10	100	7
Oil strainer	10	100	7
Oil pan	7.4	75	65 in·lbf
No.2 vehicle speed sensor	16	160	12
Rear support member x Transfer under cover (A340F)	29	300	22
Rear support member x Frame	95	970	70
Cooler union	29	300	22
Park/Neutral position switch	Bolt	13	130
	Nut	6.9	70
Control shaft lever	16	160	12
Oil pan drain plug	20	205	15
Engine rear mounting x Extension housing (A340E)	25	260	19
Engine rear mounting x Engine rear mounting bracket (A340E)	13	130	9
Exhaust manifold x Front exhaust pipe	62	630	46
Front exhaust pipe clamp	19	195	14
Front exhaust pipe bracket x Transmission	39	400	29
Front exhaust pipe x Three-way catalytic converter	39	400	29
Stiffener plate x Converter cover	37	380	27
Stabilizer bar link x Lower suspension arm	25	260	19
Stabilizer bar bracket x Frame	29	300	22
Propeller shaft x Differential (A340E)	74	750	54
Engine under cover	29	300	22
Dynamic damper (A340E)	37	380	27
Rear propeller shaft x Rear differential (A340F)	74	750	54
Rear propeller shaft x Transfer (A340F)	74	750	54
Front propeller shaft x Front differential (A340F)	74	750	54
Front propeller shaft x Transfer (A340F)	74	750	54