

AUTOMATIC TRANSMISSION (A340E)

Specifications

Line pressure										
Engine idling	D range	363 - 422 kPa	3.7 - 4.3 kgf/cm ²	53 - 61 psi						
	R range	490 - 588 kPa	5.0 - 6.0 kgf/cm ²	71 - 85 psi						
At stall (Throttle valve fully opened)	D range	932 - 1,178 kPa	9.5 - 12.0 kgf/cm ²	135 - 171 psi						
	R range	1,294 - 1,638 kPa	13.2 - 16.7 kgf/cm ²	188 - 238 psi						
Engine stall revolution	C&C	2,200 ± 150rpm								
	Except C&C	2,450 ± 150rpm								
Time lag	N range → D range	Less than 1.2 seconds								
	N range → R range	Less than 1.5 seconds								
Engine idling speed (A/C OFF)	N range	800 rpm								
Throttle cable adjustment										
Throttle valve fully opened	Between boot end face and inner cable stopper									
		0 - 1 mm							0 - 0.04 in.	
Torque converter sleeve runout	Limit	0.30 mm							0.0118 in.	
Torque converter installation distance		18.0 mm							0.709 in.	
Drive plate runout	Limit	0.20 mm							0.0079 in.	
Shift point CBU Tire size: P205/75R14 P215/65R15 km/h (mph)			Throttle valve fully open [] Fully closed							
			1 → 2	2 → 3	3 → O/D	[3 → O/D]	[O/D → 3]	O/D → 3	3 → 2	2 → 1
	D range	NORM	61-66 (38-41)	108-117 (67-73)	143-152 (89-94)	43-48 (27-30)	26-30 (16-19)	136-145 (85-90)	100-105 (62-65)	44-49 (27-30)
		PWR	61-66 (38-41)	119-127 (74-79)	147-156 (91-97)	47-52 (29-32)	26-30 (16-19)	140-149 (87-93)	110-119 (68-74)	44-49 (27-30)
	2 range	NORM PWR	53-57 (33-35)	126-135 (78-84)	-	-	-	-	119-128 (74-80)	47-52 (29-32)
	L range	NORM PWR	-	-	-	-	-	-	101-110 (63-68)	57-62 (35-39)
Lock-up point CBU Tire size: P205/75R14 P215/65R15 km/h (mph)			Throttle valve opening 5%							
			Lock-up ON				Lock-up OFF			
			2nd	*3rd	O/D	2nd	*3rd	O/D		
	D range	NORM	-	79-83 (49-52)	79-83 (49-52)	-	71-76 (44-47)	68-73 (42-45)		
		PWR	-	61-66 (38-41)	79-83 (49-52)	-	68-73 (42-45)	68-76 (42-47)		
	* O/D switch OFF									
Shift point CBU Tire size: 185R14-8 km/h (mph)			Throttle valve fully open [] Fully closed							
			1 → 2	2 → 3	3 → O/D	[3 → O/D]	[O/D → 3]	O/D → 3	3 → 2	2 → 1
	D range	NORM	52-56 (32-35)	73-100 (45-62)	135-142 (84-88)	37-41 (23-25)	22-26 (14-16)	130-136 (81-85)	86-90 (53-56)	43-47 (27-29)
		PWR	52-56 (32-35)	102-109 (63-68)	148-154 (92-96)	40-44 (25-27)	22-26 (14-16)	141-148 (88-92)	95-102 (59-63)	43-47 (27-29)
	2 range	NORM PWR	45-49 (28-30)	108-115 (67-71)	-	-	-	-	102-109 (63-68)	40-44 (25-27)
	L range	NORM PWR	-	-	-	-	-	-	87-94 (54-58)	49-53 (30-33)
Lock-up point CBU Tire size: 185R14-8 km/h (mph)			Throttle valve opening 5%							
			Lock-up ON				Lock-up OFF			
			2nd	*3rd	O/D	2nd	*3rd	O/D		
	D range	NORM	-	67-71 (42-44)	68-71 (42-44)	-	61-65 (38-40)	58-62 (36-39)		
		PWR	-	58-62 (36-39)	68-71 (42-44)	-	52-56 (32-35)	61-65 (38-40)		
	* O/D switch OFF									

Specifications (Cont'd)

Shift point			Throttle valve fully open [] Fully closed							
			1 → 2	2 → 3	3 → O/D	[3 → O/D]	[O/D → 3]	O/D → 3	3 → 2	2 → 1
C & C Tire size: 185R14-8 185R14-6 (Double tire) km/h (mph)	D range	NORM	43-47 (27-29)	84-91 (52-57)	129-135 (80-84)	73-77 (45-48)	21-25 (13-16)	123-130 (76-81)	77-81 (48-50)	38-42 (24-26)
		PWR	51-55 (32-34)	97-103 (60-64)	132-138 (82-86)	73-77 (45-48)	21-25 (13-16)	126-132 (78-82)	90-97 (56-60)	45-48 (28-30)
	2 range	NORM PWR	43-47 (27-29)	103-110 (64-68)	-	-	-	-	97-104 (60-65)	38-42 (24-26)
	L range	NORM PWR	-	-	-	-	-	-	83-89 (52-55)	47-51 (29-32)
Lock-up point C & C Tire size: 185R14-8 185R14-6 (Double tire) km/h (mph)			Throttle valve opening 5%							
			Lock-up ON				Lock-up OFF			
			2nd	*3rd	O/D	2nd	*3rd	O/D		
	D range	NORM	-	73-77 (45-48)	73-77 (45-48)	-	61-65 (38-40)	67-71 (42-44)		
PWR		-	73-77 (45-48)	73-77 (45-48)	-	67-71 (42-44)	67-71 (42-44)			
* O/D switch OFF										
Shift point C & C Tire size: 185R14-6 (Double tire) km/h (mph) (Differential gear ratio) 4.300			Throttle valve fully open [] Fully closed							
			1 → 2	2 → 3	3 → O/D	[3 → O/D]	[O/D → 3]	O/D → 3	3 → 2	2 → 1
	D range	NORM	41-45 (25-28)	80-87 (50-54)	123-129 (76-80)	69-73 (43-45)	20-24 (12-15)	117-124 (73-77)	73-77 (45-48)	37-40 (23-25)
		PWR	49-53 (30-33)	92-99 (57-62)	126-132 (78-82)	69-73 (43-45)	20-24 (12-15)	120-126 (75-78)	86-92 (53-57)	42-46 (26-29)
2 range	NORM PWR	41-45 (25-28)	98-105 (61-65)	-	-	-	-	93-99 (58-62)	37-40 (23-25)	
L range	NORM PWR	-	-	-	-	-	-	79-85 (49-53)	45-48 (28-30)	
Lock-up point C & C Tire size: 185R14-6 (Double tire) km/h (mph) (Differential gear ratio) 4.300			Throttle valve opening 5%							
			Lock-up ON				Lock-up OFF			
			2nd	*3rd	O/D	2nd	*3rd	O/D		
	D range	NORM	-	69-73 (43-45)	69-73 (43-45)	-	58-62 (36-39)	64-68 (40-42)		
PWR		-	69-73 (43-45)	69-73 (43-45)	-	64-68 (40-42)	64-68 (40-42)			
* O/D switch OFF										

Torque Specifications

Part tightened	N·m	kgf·cm	ft·lbf
Oil cooler pipe union nut	34	350	25
Torque converter x Drive plate	41	420	30
Drive plate x Crankshaft	83	850	61
Extension housing x Transmission case	36	370	27
Parking lock pawl bracket	7.4	75	65 in.·lbf
Valve body x Transmission case	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
Speed sensor	16	160	12
Speedometer driven gear lock plate	16	160	12

Torque Specifications (Cont'd)

Part tightened		N·m	kgf·cm	ft·lbf
Cooler union		29	300	22
Neutral start switch	Bolt	13	130	9
	Nut	6.9	70	61 in.·lbf
Control shaft lever		16	160	12

AUTOMATIC TRANSMISSION (A340H) Specifications

Line pressure										
Engine idling	D range		422 – 481 kPa	4.3 – 4.9 kgf/cm ²	61 – 70 psi					
		R range	520 – 618 kPa	5.3 – 6.3 kgf/cm ²	75 – 90 psi					
At stall (Throttle valve fully opened)	D range		1,118 – 1,363 kPa	11.4 – 13.9 kgf/cm ²	162 – 198 psi					
		R range	1,373 – 1,716 kPa	14.0 – 17.5 kgf/cm ²	199 – 249 psi					
Engine stall revolution			2,850 ± 150 rpm							
Time lag	N range → D range		Less than 1.2 seconds							
		N range → R range	Less than 1.5 seconds							
Engine idling speed (A/C OFF)	N range		850 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 sleeve runout	Limit		0.30 mm	0.0118 in.						
Torque converter installation distance			18.0 mm	0.709 in.						
Drive plate runout	Limit		0.20 mm	0.0079 in.						
Shift point km/h (mph)	Transfer shift position "H2" or "H4"	Throttle valve fully open [] Fully closed								
			1 → 2	2 → 3	3 → O/D	[3 → O/D]	[O/D → 3]	O/D → 3	3 → 2	2 → 1
	D range	NORM	50–53 (31–33)	90–96 (56–60)	131–138 (81–86)	35–39 (22–24)	21–25 (13–16)	125–132 (78–82)	84–91 (52–57)	40–44 (25–27)
		PWR	50–53 (31–33)	90–96 (56–60)	131–138 (81–86)	38–42 (24–26)	21–25 (13–16)	125–132 (78–82)	84–91 (52–57)	40–44 (25–27)
	2 range	NORM PWR	43–46 (27–29)	103–109 (64–68)	–	–	–	–	97–103 (60–64)	38–42 (24–42)
L range	NORM PWR	–	–	–	–	–	–	82–89 (51–55)	47–51 (29–32)	
Lock-up point km/h (mph)	Transfer shift position "H2" or "H4"	Throttle valve opening 5 %								
		Lock-up ON				Lock-up OFF				
		2nd	*3rd	O/D	2nd	*3rd	O/D			
	D range	NORM	–	52–56 (32–35)	64–68 (40–42)	–	50–53 (31–33)	55–59 (34–37)		
		PWR	–	52–56 (32–35)	64–68 (40–42)	–	50–53 (31–33)	55–59 (34–37)		
* O/D switch OFF										

Torque Specifications (Refer to the A340E automatic transmission)