1. Automatic Transmission and Differential

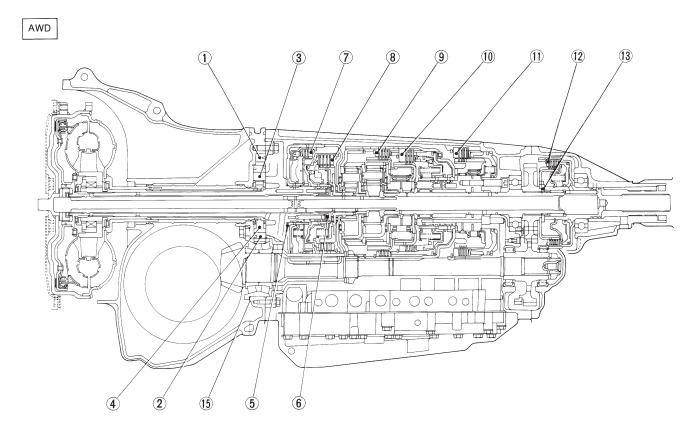
A: SPECIFICATIONS

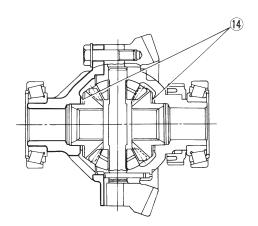
	Туре			Symmetric, 3 element, single stage, 2 phase torque converter clutch coupling				
Torque converter clutch			2200 cc	2.1 — 2.3				
	Stall torque ratio		2500 cc	1.8 — 2.0				
			OUTBACK	2.2 — 2.4				
			2200 cc	236 mm (9.29 in)				
	Nominal o	diameter	2500 cc	246 mm (9.69 in)				
			2200 cc	2,200 — 2,600 rpm				
	Stall speed (a	at sea level)	2500 cc	2,200 — 2,600 rpm				
	,		OUTBACK		2,300 — 2,700 rpm			
	0	ne-way clutch	1	Sprague type one-way clutch				
		Туре		4-forward, 1-reverse, double-row planetary gears				
		Control element		Multi-plat	te clutch	4 sets		
				Multi-plate brake		1 set		
				Band brake		1 set		
				One-way clutch (sprague type)		2 sets		
					2200 cc	2.785		
				1st	2500 cc	3.027		
					2200 cc	1.545		
		Gear	ratio	2nd	2500 cc	1.619		
				3r	·d	1.000		
				4t	h	0.694		
				Reve	erse	2.272		
		Tooth number of planetary gear		Front sun gear		33		
				Front pinion		21		
				Front internal gear		75		
				Rear sun gear	2200 cc	42		
					2500 cc	37		
					2200 cc	17		
Automatic	Transmission			Rear pinion	2500 cc	19		
transmission	Hansmission			Rear internal gear		75		
		Clutch number of reverse clutch		Drive plate & driven plate		2		
		Clutch number of high clutch		Drive plate & driven plate		2200 cc 4 2500 cc 5		
		Clutch number of forward clutch		Drive plate & driven plate		5		
		Clutch number of overrunning clutch		Drive plate & driven plate		3		
		Clutch number of low & reverse brake		Drive plate & driven plate		Except OUTBACK 5 OUTBACK 6		
		Selector position		P (Park)		Transmission in neutral, output member immovable, and engine start possible		
				R (Reverse)		Transmission in reverse for backing		
				N (Neutral)		Transmission in neutral, and engine start possible		
				D (Drive)		Automatic gear change 1st ← 2nd ← 3rd ← 4th		
				3 (3rd)		Automatic gear change 1st ← 2nd ← 3rd ← 4th		
				2 (2nd)		2nd gear locked (Deceleration possible 4th \rightarrow 3rd \rightarrow 2nd)		
				1 (1st)		1st gear locked (Deceleration possible 4th $ ightarrow$ 3rd $ ightarrow$ 2nd $ ightarrow$ 1st)		
		Control method		Ну		rdraulic remote control		

		Туре			Variable-capacity type vane pump		
	Oil pump	Driving method			Driven by engine		
		Number of vanes			9 pieces		
	Hydraulic control	Туре			Electronic/hydraulic control [Four forward speed changes by electrical signals of car speed and accelerator (throttle) opening]		
		Fluid			Dexron II or Dexron III type Automatic transmission fluid		
		Fluid capacity	2200 cc		7.9 ℓ (8.4 US qt, 7.0 lmp qt)		
			2500 cc		9.5 ℓ (10.0 US qt, 8.4 Imp qt)		
	Lubrication	Lubrication system			Forced feed lubrication with oil pump		
Automatic transmission	Lubrication	Oil			Automatic transmission fluid (above mentioned.)		
	Cooling	Cooling system			Liquid-cooled cooler incorporated in radiator		
		Inhibitor switch			12 poles		
	Harness	Transmission harness			FWD 11 poles AWD 13 poles		
	Transfer	Transfer clutch			Hydraulic multi-plate clutch		
		Clutch number of transfer clutch			Drive plate & driven plate	5	
		Control method			Electronic, hydraulic type		
		Lubricant			The same Automatic Transmission Fluid used in automatic transmission.		
		1st reduction gear ratio			1.000 (53/53)		
	Final gear ratio	ar Front drive	FWD		3.900 (39/10)		
			AWD	2200 cc	4.111 (37/9)		
				2500 сс	4.444 (40/9)		
	Speedometer gear ratio		2200 cc & LSi		0.83 (19/23)		
Final reduction			GT		0.80 (20/25)		
			OUTBACK		0.76 (19/25)		
	Lubrication oil				API, GL-5		
	Oil capacity	Front drive		1.2 ℓ (1.3 US qt, 1.1 Imp qt)			
	ATF cooling system	Radiation capacity		1.651 kW (1,420 kcal/h, 5,635 BTU/h)			

SPECIFICATIONS AND SERVICE DATA

B: ADJUSTING PARTS

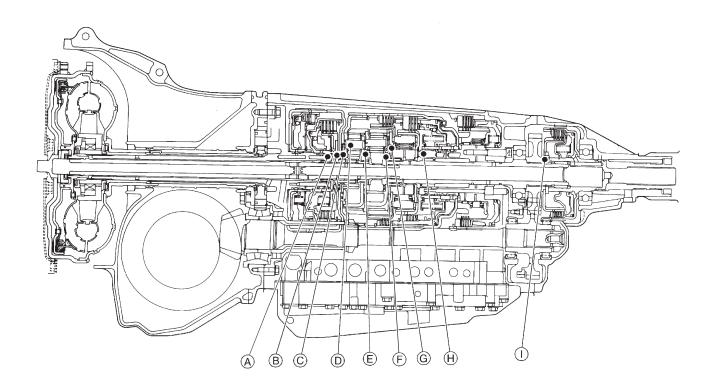


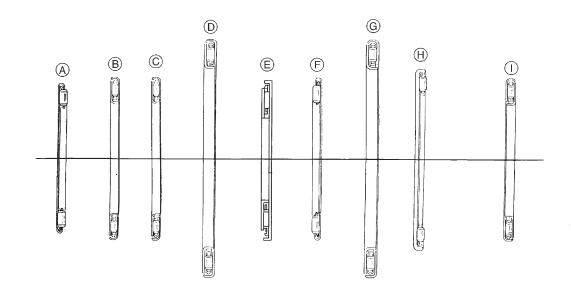


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No.	Part Name		Part Number	Dimension mm (in)	Application		
10.	2500 cc		31235AA000 — 030				
1	Control piston	2200 cc	31235AA040 — 030 31235AA040 — 070	$ \begin{bmatrix} 13.5 {}^{-0.030}_{-0.037} (0.5315 {}^{-0.0015}_{-0.0015}), 13.5 {}^{-0.023}_{-0.030} (0.5315 {}^{-0.0009}_{-0.0012}), \\ 13.5 {}^{-0.016}_{-0.023} (0.5315 {}^{-0.0006}_{-0.0009}), 13.5 {}^{-0.001}_{-0.016} (0.5315 {}^{-0.0006}_{-0.0006}) \end{bmatrix} $, Adjusting side clear- ance of oil pump		
2	Cam ring		31241AA001 — 031	$ \begin{array}{c} 17 \substack{-0.010 \\ -0.017} \left(0.6693 \substack{-0.0004 \\ -0.0007} \right), 17 \substack{-0.003 \\ -0.010} \left(0.6693 \substack{-0.0001 \\ -0.0004} \right), \\ 17 \substack{+0.004 \\ -0.003} \left(0.6693 \substack{+0.0002 \\ -0.0001} \right), 17 \substack{+0.011 \\ +0.004} \left(0.6693 \substack{+0.0004 \\ +0.0002} \right) \end{array} \right), $	Adjusting side clear- ance of oil pump		
3	Vane (Oil pump)		31243AA000 — 030	$ \begin{array}{c} 17 \substack{-0.030 \\ -0.037} \; (0.6693 \substack{-0.0012 \\ -0.0015} \;), 17 \substack{-0.023 \\ -0.030} \; (0.6693 \substack{-0.0009 \\ -0.0012} \;), \\ 17 \substack{-0.023 \\ -0.0023} \; (0.6693 \substack{-0.0009 \\ -0.0009} \;), 17 \substack{+0.009 \\ +0.0016} \; (0.6693 \substack{+0.00004 \\ +0.0006} \;) \end{array} , $	Adjusting side clear- ance of oil pump		
4	Rotor (Oil pump)		31240AA000 — 030	$00 - 030 \begin{vmatrix} 17 \stackrel{-0.030}{-0.031} & (0.6693 \stackrel{-0.0012}{-0.0015}), & 17 \stackrel{-0.023}{-0.030} & (0.6693 \stackrel{-0.0009}{-0.00012}), \\ 17 \stackrel{-0.016}{-0.023} & (0.6693 \stackrel{-0.0006}{-0.0000}), & 17 \stackrel{+0.009}{+0.0019} & (0.6693 \stackrel{+0.0009}{+0.00006}) \end{vmatrix}$			
5	Thrust washer (Reverse clutch)		131299AA000 = 060 + 73777		Adjusting end play of reverse clutch drum		
6	Bearing race		Bearing race		803031021 — 027	0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0 (0.031, 0.039, 0.047, 0.055, 0.063, 0.071, 0.079)	Adjusting total end play
7	Retaining plate		31567AA350 — 400	4.6, 4.8, 5.0, 5.2, 5.4, 5.6 (0.181, 0.189, 0.197, 0.205, 0.213, 0.220)	Adjusting clearance of reverse clutch		
8	Retaining plate		Retaining plate		31567AA340, 31567AA190 — 260	3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0 (0.134, 0.142, 0.150, 0.157, 0.165, 0.173, 0.181, 0.189, 0.197)	Adjusting clearance of high clutch
9	Retaining plate		31567AA010, 31567AA060 — 110	4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2 (0.157, 0.165, 0.173, 0.181, 0.189, 0.197, 0.205)	Adjusting clearance of forward clutch		
10	Retaining plate		31567AA410 — 470	8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2 (0.315, 0.323, 0.331, 0.339, 0.346, 0.354, 0.362)	Adjusting clearance of overrunning clutch		
11	Retaining plate No. 2		0 1		31667AA180 — 250	6.5, 6.8, 7.1, 7.4, 7.7, 8.0, 8.2, 8.4 (0.256, 0.268, 0.280, 0.291, 0.303, 0.315, 0.323, 0.331)	Adjusting clearance of low and reverse brake
12	Pressure plate (Front)		31593AA151 — 181	3.3, 3.7, 4.1, 4.5 (0.130, 0.146, 0.161, 0.177)	Adjusting clearance of transfer clutch		
13	Thrust bearing (35 x 53 x T)		806536020, 806535030 — 070, 090	3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0 (0.150, 0.157, 0.165, 0.173, 0.181, 0.189, 0.197)	Adjusting end play of transfer clutch		
14	Washer (38.1 x 50 x T)		803038021 — 023	0.95, 1.00, 1.05 (0.0374, 0.0394, 0.0413)	Adjusting backlash of differential bevel gear		
15	Drive pinion shim		e pinion shim 31451AA050 — 100 0.150, 0.175, 0.200, 0.225, 0.250, 0.275 (0.0059, 0.0069, 0.0079, 0.0089, 0.0098, 0.0108)		Adjusting drive pin- ion height		

C: LOCATION AND INSTALLING DIRECTION OF THRUST NEEDLE BEARING





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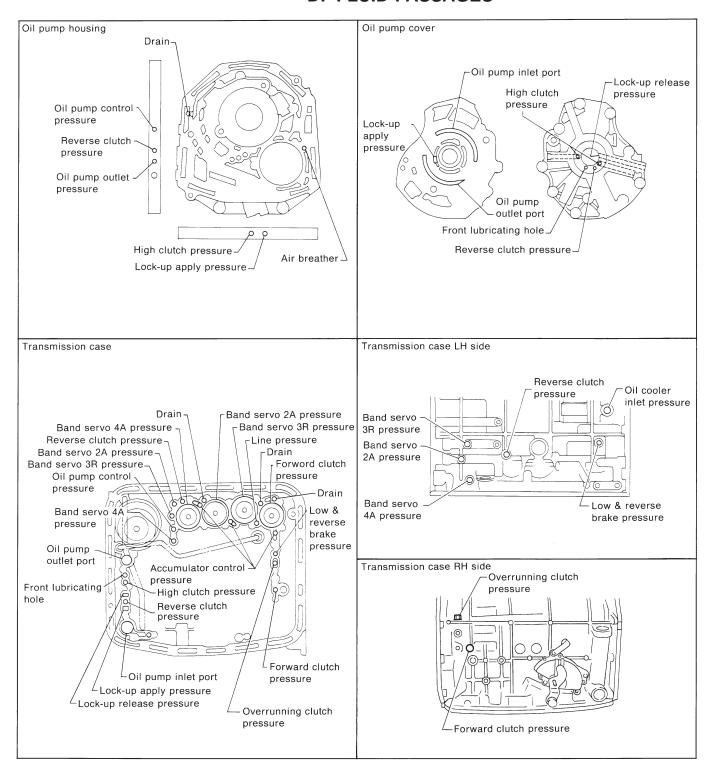
Unit: mm (in)

No.	Part Name	Part Number	Inside diameter	Outside diameter	Dimension	Application
А	Thrust needle bearing	806530020	30 (1.18)	47 (1.85)	3.3 (0.130)	A place of high clutch
В	Thrust needle bearing	806537010	38 (1.50)	53 (2.09)	3.2 (0.126)	A place of high clutch hub
С	Thrust needle bearing	806537010	38 (1.50)	53 (2.09)	3.2 (0.126)	A place of front sun gear
D	Thrust needle bearing	806558020	58 (2.28)	78 (3.07)	4.0 (0.157)	A place of front planetary carrier
Е	Thrust needle bearing	806535120	35 (1.38)	53 (2.09)	4.8 (0.189)	A place of rear sun gear
F	Thrust needle bearing	806534010	34 (1.34)	53 (2.09)	3.37 (0.1327)	A place of rear internal gear
G	Thrust needle bearing	806558020	58 (2.28)	78 (3.07)	4.0 (0.157)	A place of overrunning clutch hub
Н	Thrust needle bearing	806542010	42 (1.65)	59 (2.32)	3.6 (0.142)	A place of low & reverse brake
I	Thrust needle bearing	806536020 806535030 2 806535070 806535090	36 (1.42)	53 (2.09)	3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0 (0.150, 0.157, 0.165, 0.173, 0.181, 0.189, 0.197)	Adjusting end play of transfer clutch

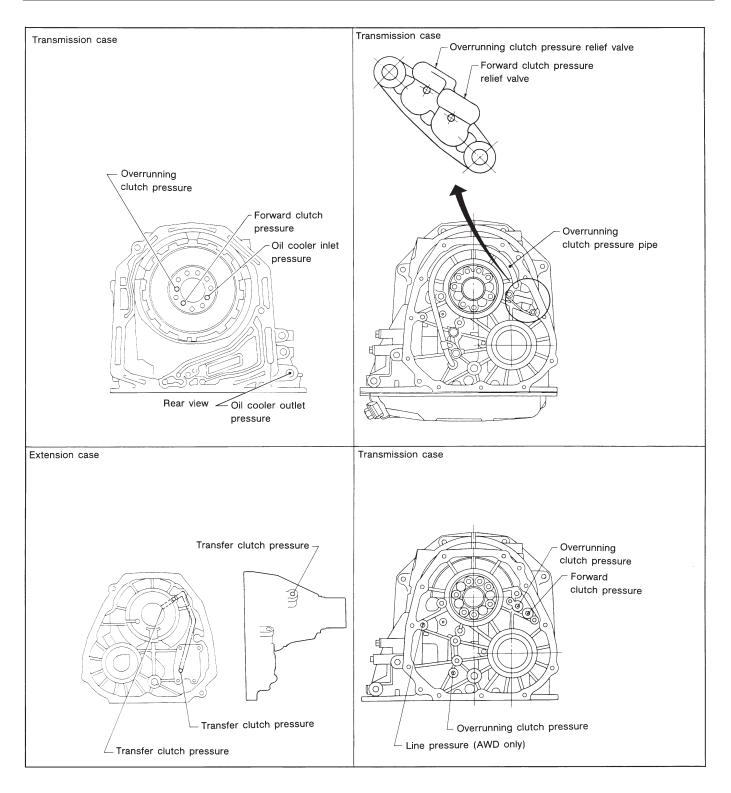
1. Automatic Transmission and Differential

SPECIFICATIONS AND SERVICE DATA

D: FLUID PASSAGES



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