1. Automatic Transmission and Differential

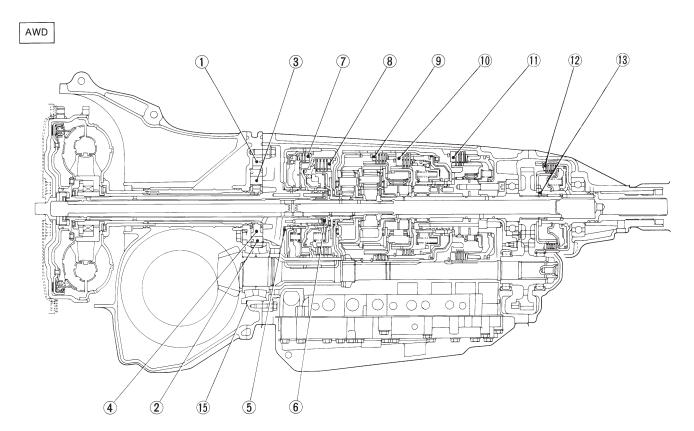
A: SPECIFICATIONS

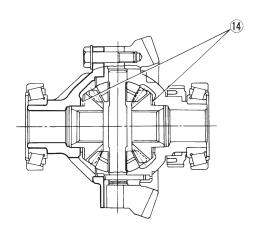
	Туре		Symmetric, 3 element, single stage, 2 phase torque converter clutch coupling		
Torque converter clutch	Stall torque ratio		2.1 — 2.3		
	Nominal diameter		236 mm (9.29 in)		
	Stall speed (at sea level)		2,300 — 2,700 rpm		
	One-way clutch		Sprague type one-way clutch		
		Туре	4-forward, 1-reverse, double-row planetary gears		
		Control element	Multi-plate clutch	4 sets	
			Multi-plate brake	1 set	
			Band brake	1 set	
			One-way clutch (sprague type)	2 sets	
		Gear ratio	1st	2.785	
			2nd	1.545	
			3rd	1.000	
			4th	0.694	
			Reverse	2.272	
Automatic	Transmis- sion	Tooth number of planetary gear	Front sun gear	33	
			Front pinion	21	
			Front internal gear	75	
			Rear sun gear	42	
			Rear pinion	17	
transmis-			Rear internal gear	75	
sion			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	
		Selector position	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 → 3rd → 2nd → 1st)	
		Control method	Control method Hydraulic remote control		

		Туре		Variable-capacity	Variable-capacity type vane pump		
	Oil pump	Driving method		Driven b	Driven by engine		
		Number of vanes		9 pi	9 pieces		
	Hydraulic	Туре		[Four forward speed cha	Electronic/hydraulic control [Four forward speed changes by electrical signals of car speed and accelerator (throttle) opening]		
	control	Fluid		Dexron II type Autom	Dexron II type Automatic transmission fluid		
		Fluid capacity		7.9 ℓ (8.4 US	7.9 ℓ (8.4 US qt, 7.0 Imp qt)		
Automatic	Ludania atian	Lubrication system		Forced feed lubric	Forced feed lubrication with oil pump		
transmis-	Lubrication	Oil		Automatic transmission	Automatic transmission fluid (above mentioned.)		
sion	Cooling	Cooling system		Liquid-cooled cooler i	Liquid-cooled cooler incorporated in radiator		
	Harness	Inhibitor switch		12 ړ	12 poles		
		Transmission harness		poles	FWD 11 AWD 13		
	Transfer	Transfer clutch		Hydraulic mu	Hydraulic multi-plate clutch		
		Control method		Electronic, h	Electronic, hydraulic type		
		Lubricant			The same Automatic Transmission Fluid used in automatic transmission.		
		1st reductio	1st reduction gear ratio		1.000 (53/53)		
	Final gear ratio	Front drive	FWD	3.900	3.900 (39/10)		
		Front drive	AWD	4.111	(37/9)		
Final reduction	Speedometer gear ratio			0.83 (0.83 (19/23)		
	Lubrication oil			API,	API, GL-5		
	Oil capacity	Front drive		1.2 ℓ (1.3 US	1.2 ℓ (1.3 US qt, 1.1 Imp qt)		
	ATF cooling system	Radiation capacity		1.651 kW (1,420 k	1.651 kW (1,420 kcal/h, 5,635 BTU/h)		

SPECIFICATIONS AND SERVICE DATA

B: ADJUSTING PARTS

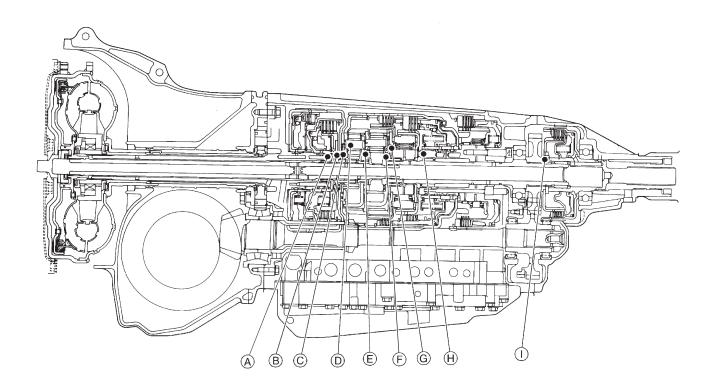


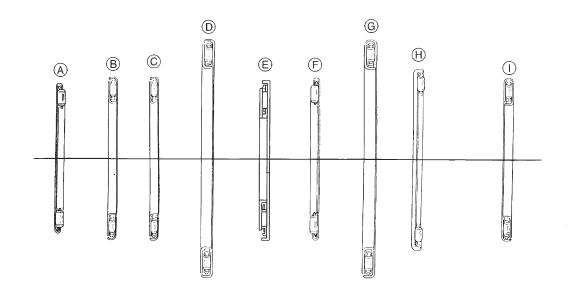


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No.	Part Name	Part Number	Dimension mm (in)	Application
1	Control piston	31235AA000 — 030	$\begin{array}{c} 13.5 \substack{+0.030 \\ -0.037} (0.5315 \substack{+0.0012 \\ -0.0015}), 13.5 \substack{+0.023 \\ -0.030} (0.5315 \substack{+0.0009 \\ -0.0012}), \\ 13.5 \substack{+0.016 \\ -0.023} (0.5315 \substack{+0.009 \\ -0.0009}), 13.5 \substack{+0.009 \\ -0.016} (0.5315 \substack{+0.0004 \\ -0.0006}) \end{array}$	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{+0.0004 \\ -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} $	Adjusting side clear- ance of oil pump
3	Vane (Oil pump)	31243AA000 — 030	$ \begin{array}{c} 17 \substack{-0.030 \\ -0.037} \left(0.6693 \substack{-0.0012 \\ -0.0015} \right), 17 \substack{-0.023 \\ -0.030} \left(0.6693 \substack{-0.0009 \\ -0.0012} \right), \\ 17 \substack{-0.016 \\ -0.023} \left(0.6693 \substack{-0.0006 \\ -0.0009} \right), 17 \substack{+0.009 \\ +0.016} \left(0.6693 \substack{+0.0004 \\ +0.0006} \right) \end{array} $	Adjusting side clear- ance of oil pump
4	Rotor (Oil pump)	31240AA000 — 030	$ \begin{array}{c} 17 \substack{-0.030 \\ -0.037} \left(0.6693 \substack{-0.0012 \\ -0.0015} \right), 17 \substack{-0.023 \\ -0.030} \left(0.6693 \substack{-0.0002 \\ -0.0012} \right), \\ 17 \substack{-0.016 \\ -0.023} \left(0.6693 \substack{-0.0006 \\ -0.0009} \right), 17 \substack{+0.009 \\ +0.016} \left(0.6693 \substack{+0.0004 \\ +0.0006} \right) \end{array} $	Adjusting side clearance of oil pump
5	Thrust washer (Reverse clutch)	31299AA000 — 060	0.7, 0.9, 1.1, 1.3, 1.5, 1.7, 1.9 (0.028, 0.035, 0.043, 0.051, 0.059, 0.067, 0.075)	Adjusting end play of reverse clutch drum
6	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	31567AA190 — 260	3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0 (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	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	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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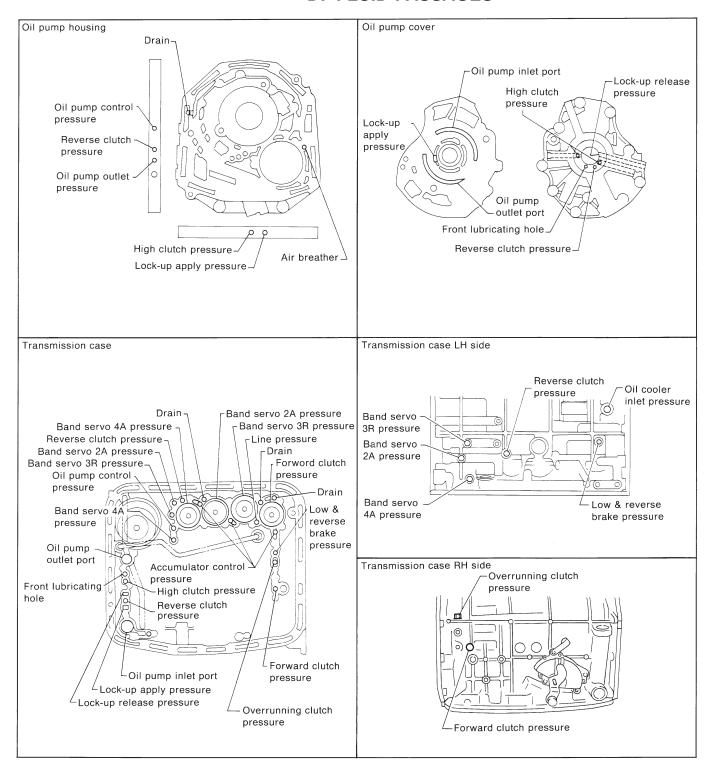
Unit: mm (in)

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 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

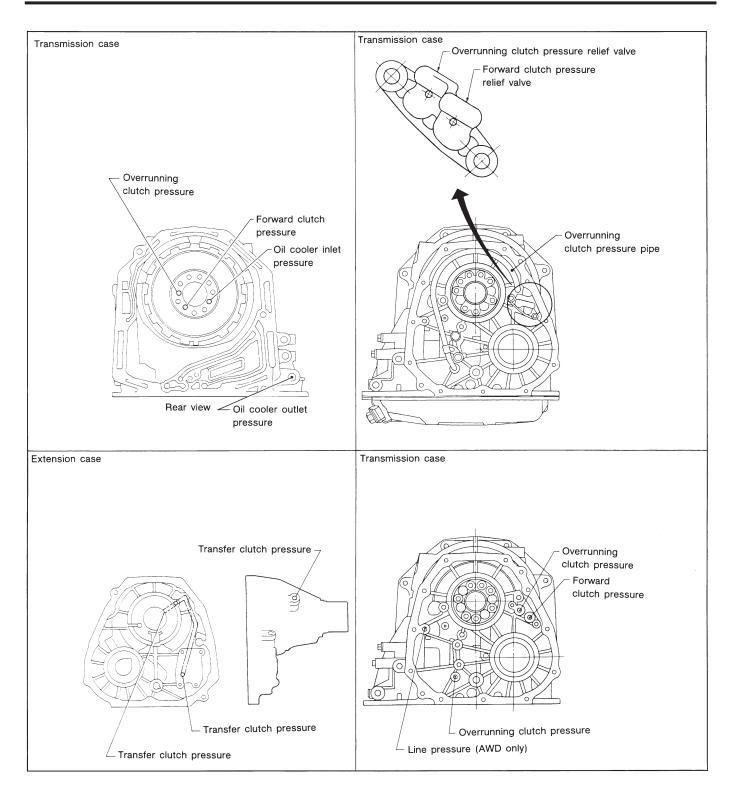
1. Automatic Transmission and Differential

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D: FLUID PASSAGES



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