1. Automatic Transmission and Differential

A: SPECIFICATIONS

	Туре			Symmetric, 3 element, single stage, 2 phase torque converter			
Torque	Stall torque ratio		2200 cc	2.1 — 2.3			
			2500 cc	1.8 — 2.0			
			OUTBACK	2.2 — 2.4			
	Nominal diameter		2200 cc 236 mm (9.29 in)				
converter clutch			2500 cc	246 mm (9.69 in)			
Oluton	Stall speed (at sea level)		2200 cc	2,200 — 2,600 rpm			
			2500 cc	2,200 — 2,600 rpm			
			OUTBACK	2,300 — 2,700 rpm			
	One-way clutch			Sprague type one-way clutch			
	Туре		4-forward, 1-	reverse, double-row pla	netary gears		
				Multi-plat	te clutch	3 sets	
		Control element		Multi-pla	te brake	2 sets	
				One-way clutch	One-way clutch (sprague type)		
				1st	2200 cc	2.785	
		Gear ratio		151	2500 cc	3.027	
				2nd -	2200 cc	1.545	
					2500 cc	1.619	
				3r	3rd		
				4t	h	0.694	
				Reverse		2.272	
		Tooth number of planetary gear		Front sun gear		33	
Automatic transmis-	Transmis-			Front pinion		21	
sion	sion			Front internal gear		75	
				Rear sun gear	2200 cc	42	
					2200 cc	37	
				Rear pinion	2200 cc	17	
				ixear pirilori	2500 cc	19	
				Rear internal gear		75	
		Plate number of high clutch		Drive plate & driven plate		4	
		Plate number of reverse clutch		Drive plate & driven plate		2	
		Plate number of 2-4 brake		Drive plate & driven plate		3	
		Plate number of low clutch		Drive plate & driven	2200 cc	5	
				plate	2500 cc	6	
		Plate number of low & reverse		Drive plate & driven	2200 cc	5	
	brak			plate	2500 cc	6	

SPECIFICATIONS AND SERVICE DATA [S1A0] 3-2 1. Automatic Transmission and Differential

	Transmis- sion	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 (D	rive)	Automatic gear change 1st ← 2nd ← 3rd ← 4th
				3 (3rd)		Automatic gear change
				2 (2	?nd)	2nd gear locked (Deceleration possible 4th \rightarrow 3rd \rightarrow 2nd)
Automatic transmis-				1 (1st)	1st gear locked (Deceleration possible 4th \rightarrow 3rd \rightarrow 2nd \rightarrow 1st)
sion		Control method		ŀ	Hydraulic remote contro	
	Oil pump	Туре		Trochoi	d constant-displacemer	nt pump
		Driving method			Driven by engine	
		Number of teeth		Inner rotor		9
				Outer rotor		10
	Hydraulic control	Туре		Electronic/hydraulic control [Four forward speed changes by electrical signals of vehicle speed and accelerator (throttle) opening]		
		Fluid		Dexron II or Dexron III type Automatic transmission fluid		
		Fluid capacity	2200 cc	$8.4 - 8.7 \; \ell \; (8.9 - 9.2 \; \text{US qt, } 7.4 - 7.7 \; \text{Imp qt})$		– 7.7 Imp qt)
		Гійій сарасіту	2500 cc	9.3 — 9.6 ℓ (9.8 — 10.1 US qt, 8.2 — 8.4 Imp qt)		— 8.4 Imp qt)
	Lubrica-	Lubrication system		Forced feed lubrication with oil pump		
	tion	Oil		Automatic transmission fluid (above mentioned.)		
	Cooling	Cooling system		Liquid-cooled cooler incorporated in radiator		
	Harness	Inhibitor switch		12 poles		
		Transmission harness		17 poles		
	Transfer	Transfer clutch Plate number of transfer clutch		H	ydraulic multi-plate clute	ch
				Drive plate & driven	2200 cc	4
				plate	2500 cc	5
		Control method		Electronic, hydraulic type		
		Lubricant		The same Automatic Transmission Fluid used in automatic transmission.		
		1st reduction gear rati	0	1.000 (53/53)		

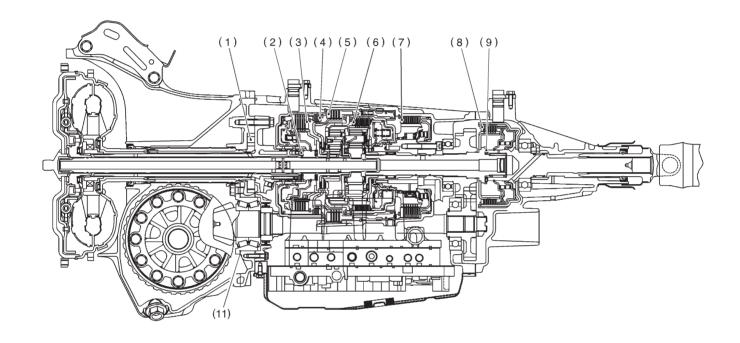
3-2 [S1A0] SPECIFICATIONS AND SERVICE DATA 1. Automatic Transmission and Differential

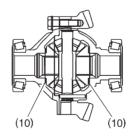
	Final gear _	2200 cc		4.111 (37/9)			
	ratio	Front drive	2500 cc	4.444 (40/9)			
	Lubrication oil			ITEM			
				Front differential gear oil			
				API Classification			
				GL - 5			
				SAE Viscosity No. and Applicable Temperature			
Final				(°C) -30 -26 -15 -5 0 15 25 30 (°F) -22 -15 5 23 32 59 77 86 90			
reduction							
				80W			
				80W-90			
				H3M1235A			
	Oil capacity	Front	drive	1.2 ℓ (1.3 US qt, 1.1 Imp qt)			
	ATF cooling s	system Radia	tion capacity	1.977 kW (1,700 kcal/h, 6,746 BTU/h)			

SPECIFICATIONS AND SERVICE DATA [S1A0] 3-2 1. Automatic Transmission and Differential

MEMO:

B: ADJUSTING PARTS





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SPECIFICATIONS AND SERVICE DATA [S1B0] 3-2 1. Automatic Transmission and Differential

No.	Part Name	Part Number	Dimension mm (in)	Application	
		15008AA060	11.37 — 11.38 (0.4476 — 0.4480)	Adjusting side clearance of oil	
1	Rotor (Oil pump)	15008AA070	11.38 — 11.39 (0.4480 — 0.4484)	pump	
		15008AA080	11.39 — 11.40 (0.4484 — 0.4488)	pump	
		806528050	4.11 (0.1618)		
		806528060	4.3 (0.169)		
2	Thrust bearing	806528070	4.5 (0.177)	Adjusting total end play	
	Tillust bearing	806528080	4.7 (0.185)	Adjusting total end play	
		806528090	4.9 (0.193)		
		806528100	5.1 (0.201)		
		31567AA710	4.7 (0.185)		
		31567AA720	4.8 (0.189)		
		31567AA730	4.9 (0.193)		
3	Retaining plate	31567AA740	5.0 (0.197)	Adjusting clearance of high	
	(High clutch)	31567AA670	5.1 (0.201)	clutch	
		31567AA680	5.2 (0.205)		
		31567AA690	5.3 (0.209)		
		31567AA700	5.4 (0.213)		
		31567AA750	3.8 (0.150)		
		31567AA760	4.0 (0.157)		
		31567AA770	4.2 (0.165)		
4	Retaining plate	31567AA780	4.4 (0.173)	Adjusting clearance of reverse	
'	(Reverse clutch)	31567AA790	4.6 (0.181)	clutch	
		31567AA800	4.8 (0.189)		
		31567AA810	5.0 (0.197)		
		31567AA820	5.2 (0.205)		
		31567AA610	5.6 (0.220)		
	Retaining plate (2-4 brake)	31567AA620	5.8 (0.228)		
5		31567AA630	6.0 (0.236)	Adjusting clearance of 2-4	
		31567AA640	6.2 (0.244)	brake	
		31567AA650	6.4 (0.252)		
		31567AA660	6.6 (0.260)		
	Retaining plate (Low clutch)	31567AA830	3.8 (0.150)		
l .		31567AA840	4.0 (0.157)	Adjusting clearance of low	
6		31567AA850	4.2 (0.165)	clutch	
		31567AA860	4.4 (0.173)		
		31567AA870	4.6 (0.181)		
		31667AA320	4.2 (0.165)		
		31667AA330	4.5 (0.177)		
_	Retaining plate	31667AA340	4.8 (0.189)	Adjusting clearance of low	
7	(Low and reverse brake)	31667AA350	5.1 (0.201)	and reverse brake	
		31667AA360	5.4 (0.213)		
		31667AA370 31667AA380	5.7 (0.224)		
-			6.0 (0.236)		
		31593AA151	3.3 (0.130)		
8	Pressure plate	31593AA161	3.7 (0.146)	Adjusting clearance of transfer	
	(Transfer clutch)	31593AA171	4.1 (0.161)	clutch	
		31593AA181	4.5 (0.177)		
		806536020	3.8 (0.150)		
	Thrust bearing	806535030	4.0 (0.157)		
			4.2 (0.165)	Adjusting end play of transfer	
9	(Transfer clutch)	806535050	4.4 (0.173)	clutch	
	,	806535060	4.6 (0.181)		
		806535070	4.8 (0.189)		
		806535090	5.0 (0.197)		
1 40	Washer	803038021	0.95 (0.0374)	Adjusting backlash of differen-	
10	(Front differential)	803038022	1.00 (0.0394)	tial bevel gear	
	(i fork dinoronital)	803038023	1.05 (0.0413)		

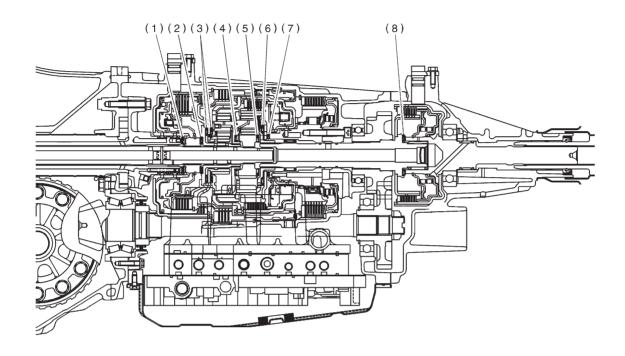
3-2 [S1B0] SPECIFICATIONS AND SERVICE DATA 1. Automatic Transmission and Differential

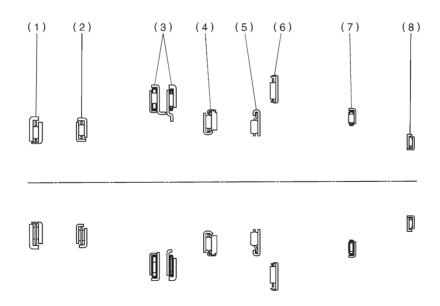
No.	Part Name	Part Number	Dimension mm (in)	Application
11	Drive pinion shim	31451AA050 31451AA060 31451AA070 31451AA080 31451AA090 31451AA100	0.150 (0.0059) 0.175 (0.0069) 0.200 (0.0079) 0.225 (0.0089) 0.250 (0.0098) 0.275 (0.0108)	Adjusting drive pinion shim

SPECIFICATIONS AND SERVICE DATA [S1B0] 3-2 1. Automatic Transmission and Differential

MEMO:

C: LOCATION AND INSTALLING DIRECTION OF THRUST NEEDLE BEARING



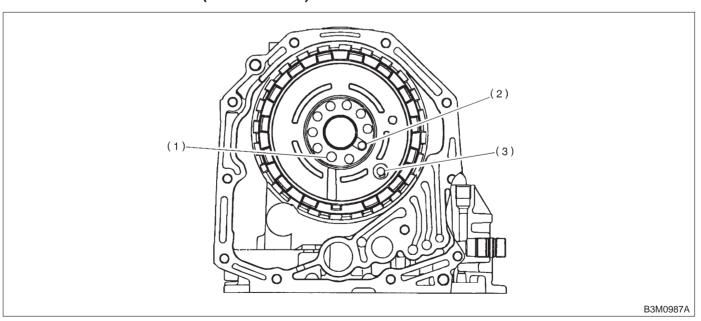


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No.	Part Name	Part Number	Inside diameter mm (in)	Outside diameter mm (in)	Dimension mm (in)	Application
(1)	Thrust needle bearing	806528050 806528060 806528070 806528080 806528090 806528100	28.5 (1.122)	48 (1.89)	4.1 (0.161) 4.3 (0.169) 4.5 (0.177) 4.7 (0.185) 4.9 (0.193) 5.1 (0.201)	Adjusting total end play
(2)	Thrust needle bearing	806530040	30 (1.18)	47 (1.85)	3.8 (0.150)	Place of high clutch
(3)	Thrust needle bearing	806551020	51 (2.01)	71 (2.80)	3.3 (0.130)	Place of front sun gear
(4)	Thrust needle bearing	806535120	35 (1.38)	53 (2.09)	4.8 (0.189)	Place of rear sun gear
(5)	Thrust needle bearing	806534060	35 (1.38)	53 (2.09)	3.3 (0.130)	Place of rear sun gear
(6)	Thrust needle bearing	806558030	58 (2.28)	78 (3.07)	2.8 (0.110)	Place of rear internal gear
(7)	Thrust needle bearing	806541020	39.7 (1.563)	54 (2.13)	3.6 (0.142)	Place of one-way clutch
(8)	Thrust needle bearing	806536020 806535030 806535040 806535050 806535060 806535070 806535090	36 (1.42)	53 (2.09)	3.8 (0.150) 4.0 (0.157) 4.2 (0.165) 4.4 (0.173) 4.6 (0.181) 4.8 (0.189) 5.0 (0.197)	Adjusting end play of transfer clutch

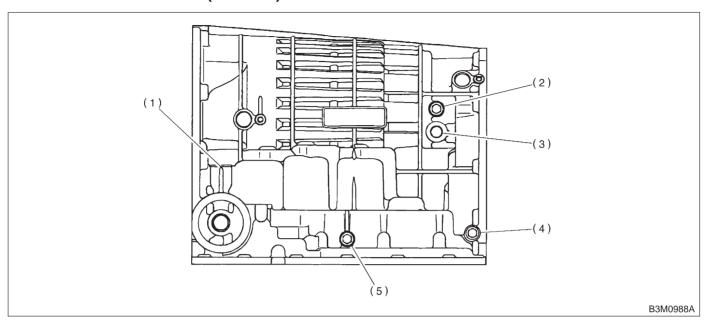
D: FLUID PASSAGES

1. TRANSMISSION CASE (FRONT SIDE)



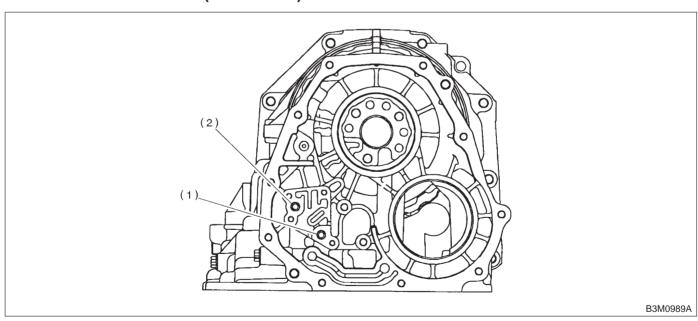
- (1) Low clutch pressure
- (2) Oil cooler inlet pressure
- (3) Low & reverse brake pressure

2. TRANSMISSION CASE (LH SIDE)



- (1) Oil cooler outlet pressure
- (2) Low & reverse brake pressure
- (3) Oil cooler inlet pressure
- (4) Low clutch pressure
- (5) 2-4 brake pressure

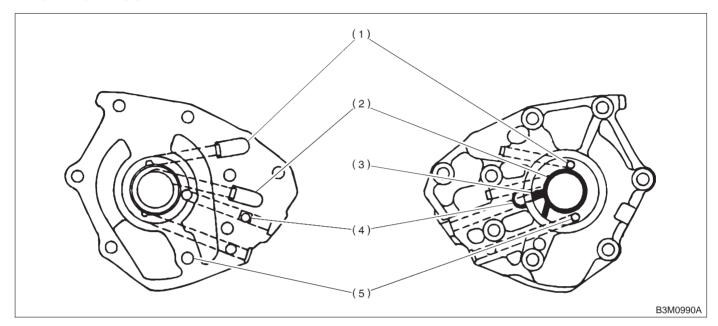
3. TRANSMISSION CASE (REAR SIDE)



(1) Pilot pressure

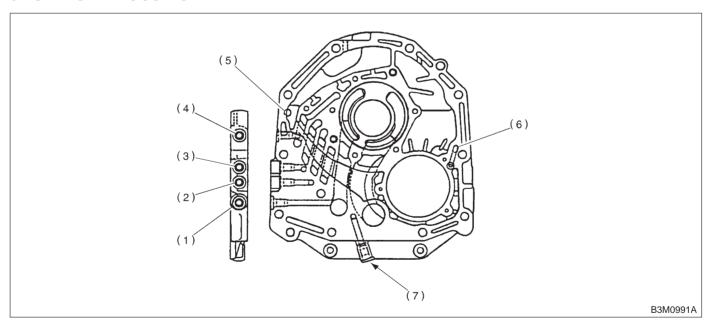
(2) Line pressure

4. OIL PUMP COVER



- (1) High clutch pressure
- Lock-up release pressure
- (3) Front lubricating hole
- (4) Lock-up apply pressure
- (5) Reverse clutch pressure

5. OIL PUMP HOUSING

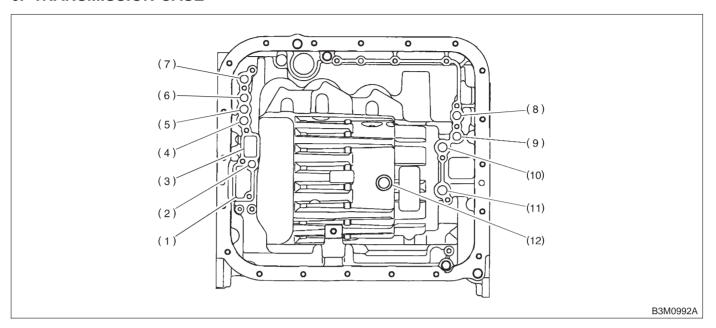


- (1) Oil pump outlet pressure
- (2) Lock-up apply pressure
- (3) Lock-up release pressure
- (4) High clutch pressure
- (5) Drain
- (6) Air breather

(7) Reverse clutch pressure

3-2 [S1D6] SPECIFIC 1. Automatic Transmission and Differential SPECIFICATIONS AND SERVICE DATA

6. TRANSMISSION CASE



- (1) Oil pump inlet port
- (2) Reverse clutch pressure
- (3) Oil pump outlet port
- (4) Lock-up apply pressure
- (5) Lock-up release pressure
- (6) High clutch pressure
- (7) Oil cooler outlet pressure
- Line pressure

- (9) Pilot pressure
- (10) Low & reverse brake pressure
- (11) Low clutch pressure
- (12) 2-4 brake pressure

7. EXTENSION CASE

