SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

FOREWORD	FW
HOW TO USE THIS MANUAL	ни
SPECIFICATIONS	SPC
PRECAUTION	PC
NOTE	NT
IDENTIFICATION	ID
RECOMMENDED MATERIALS	RM
PRE-DELIVERY INSPECTION	PI
PERIODICAL MAINTENANCE	РМ

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

FUEL INJECTION (FUEL SYSTEMS)	FU(H6)
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)	EC(H6)
INTAKE (INDUCTION)	IN(H6)
MECHANICAL	ME(H6)
EXHAUST	EX(H6)
COOLING	CO(H6)
LUBRICATION	LU(H6)
SPEED CONTROL SYSTEMS	SP(H6)
IGNITION	IG(H6)
START/CHARGING SYSTEMS	SC(H6)
ENGINE (DIAGNOSTICS)	EN(H6)
REAR SUSPENSION	RS
WIRING SYSTEM	WI

FOREWORD

FW	
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		Page
1.	Foreword	2

1. Foreword SA01674

A: FOREWORD SA01674G21

These manuals are used when performing maintenance, repair, or diagnosis of the Subaru Legacy.

Applied model: BE**** and BH**** from 2001MY.

The additional manuals below are also available: AUTOMATIC TRANSMISSION SERVICE MANUAL (Pub. No. G0853ZE)

The manuals contain the latest information at the time of publication. Changes in specifications, methods, etc. may be made without notice.

HOW TO USE THIS MANUALS



		Page
١.	How to Use This Manuals	2

1. How to Use This Manuals SACCETS

A: HOW TO USE THIS MANUALS

SA02675F69

1. STRUCTURE SA02675F6901

Each section consists of SCT that are broken down into SC that are divided into sections for each component. The specification, maintenance and other information for the components are included, and diagnosis information has also been added where necessary.

2. INDEX SA02675F6902

The first page has an index with tabs. And at the end of each section is an alphabetical index.

3. COMPONENTS SA02675F6903

For each component, a composition drawing is included.

4. SPECIFICATIONS SA02675F6904

If necessary, specifications are also included

5. INSPECTION SA02675F6905

Inspections are included to be carried out before and after maintenance.

6. MAINTENANCE SA02675F6906

Maintenance instructions are provided for each component. When multiple components comprise one process, refer to the instructions for that process for each component.

7. DIAGNOSIS SA02675F6907

Tables showing a step-by-step process make it easy to conduct diagnosis.

8. SI UNITS SA02675F6909

Measurements in these manuals are according to the SI units. Metric and yard/pound measurements are also included.

SPECIFICATIONS

SPC Page

		Page
1.	Legacy	2
2	OUTBACK	9

1. Legacy SA08704

A: DIMENSIONS SA08704G28

Model			Sedan	Wagon	
			AWD		
Overall length		mm (in)	4,605 (181.3) 4,680 (184.3)		
Overall width mm (in		mm (in)	1,695 (66.7)	1,695 (66.7)	
Overall height (a	t CW)	mm (in)	1,415 (55.7)	1,515 (59.6)	
Compartment	Length	mm (in)	1,965 (77.4)	1,925 (75.8)	
	Width	mm (in)	1,440 (56.7), 1,420 (55.9)*2	1,440 (56.7), 1,420 (55.9)*2	
	Height	mm (in)	1,155 (45.5)	1,190 (46.9), 1,175 (46.3)*3	
Wheelbase		mm (in)	2,650 (104.3)	2,650 (104.3)	
Tread	Front	mm (in)	1,460 (57.5)	1,460 (57.5), 1,465 (57.5)*1	
	Rear	mm (in)	1,460 (57.5)	1,455 (57.3), 1,465 (57.5)*1	
Minimum road clearance	Without catalytic converter	mm (in)	160 (6.3)	165 (6.5), 14.5 (5.7)*1	
	With catalytic converter	mm (in)	155 (6.1)	155 (6.1), 140 (5.5)*1	
	Australia	mm (in)	155 (6.1)	155 (6.1), 140 (5.5)*1	

^{*1:} With pneumatic suspension *2: With leather seat *3: With sunroof

B: ENGINE SA08704G29

Model		Sedan/Wagon		
		AWD		
		2.0 L	2.5 L	
Engine type		Horizontally opposed, liquid cooled,	4-cylinder, 4-stroke gasoline engine	
Valve arrangement		Overhead ca	amshaft type	
Bore × Stroke	mm (in)	$92 \times 75 \ (3.62 \times 2.95)$	99.5 × 79.0 (3.917 × 3.110)	
Displacement	cm ³ (cu in)	1,994 (121.67)	2,457 (149.9)	
Compression ratio		10.0		
Firing order		1 — 3 -	- 2 4	
Idle speed at Park/Neutral position	rpm	m 700±100		
Maximum output	kW (HP)/rpm	92 (123)/5,600	115 (154)/5,600	
Maximum torque	N·m (kgf-m, ft-lb)/rpm	184 (18.8, 136.0)/3,600	223 (22.7, 164.2)/3,600	

C: ELECTRICAL SA08704G30

Model			Sedan/Wagon		
			AV	VD	
			2	2.0 L	2.5 L
Ignition timing at idling speed BTDC/rpm				10°±1	0°/700
Spark plug	Type and manufacturer	Without OBD		NGK: BKR6E (without catalyst)
				CHAMPION: RC10	OYC4 (with catalyst)
				NGK: BKR5E-1	1 (with catalyst)
		With OBD		RC10YC4	CHAMPION
			Alternate	RC8YC4	CHAMPION
				BKR6E-11	. NGK
				K20PR-U11	NIPPONDENSO
Generator	Generator			12V -	— 90A
Battery	Type and capacity	For Europe and	MT: 12V — 48AH (55D23L)		MT: 12V — 48AH (55D23L)
	(5HR)	South America	AT: 12V —	52AH (65D23L)	AT: 12V — 52AH (75D23L)
		Others		12V — 27A	H (34B19L)

D: TRANSMISSION SA08704G31

Model		Sedan/Wagon				
			AWD			
			2.0) L	2.5	i L
Transmission typ	Transmission type			4AT*2	5MT*1	4AT*2
Clutch type			DSPD	TCC	DSPD	TCC
Gear ratio		1st	3.454	2.785	3.454	2.785
		2nd	2.062	1.545	2.062	1.545
		3rd	1.448	1.000	1.448	1.000
			1.088	0.694	1.088	0.694
			0.825	_	0.825*3, 0.780*4	
		Reverse	3.333	2.272	3.333	2.272
Reduction gear	1st reduction	Type of gear	_	Helical	_	Helical
(Front drive)		Gear ratio	_	1.000	_	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	3.900	4.111	3.700*3, 4.111*4	4.111
Reduction gear	Transfer reduc-	Type of gear	Helical	_	Helical	_
(Rear drive)	tion	Gear ratio	1.000	_	1.000	_
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	3.900	4.111	3.700*3, 4.111*4	4.111

5MT*1: 5 forward speeds with synchromesh and 1-reverse
4AT*2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse
DSPD: Dry Single Plate Diaphragm
TCC: Torque Converter Clutch *3: Except Australia spec. vehicles *4: Australia spec. vehicles

E: STEERING SAO8704G32

Model		Models with 185/70R14 tires	Models with 195/60R15 tires	Models with 205/50R16 tires	
Туре		Rack and Pinion			
Turns, lock to lock		3.:	3.1		
Minimum turning circle	m (ft)	Curb to curb: 10.5±1.0 (34.5±3.3) Wall to wall: 11.4±1.0 (37.4±3.3)		Curb to curb: 10.8±1.0 (35.4±3.3) Wall to wall: 11.5±1.0 (37.7±3.3)	

F: SUSPENSION SA08704G33

Model	Conventional suspension	Pneumatic suspension
Front	Macpherson strut type, Independent, Coil spring	Macpherson strut type, Independent, Pneumatic suspension with height control
Rear	Multi-link type, Independent, Coil spring	Multi-link type, Independent, Pneumatic suspension with height control

G: BRAKE SA08704G34

Model	Australia spec. vehicles Except Australia spec. vehicles							
		Others						
Service brake system	Dual circuit	Dual circuit hydraulic with vacuum suspended power unit						
Front		Ventilated disc brake						
Rear	Disc brake	Drum brake	Disc brake					
Parking brake	Mechanical on rear brakes							

H: TIRE SA08704G35

Rim size	$14 \times 5^{1}/_{2}JJ$	15 × 6JJ	$16 \times 6^{1}/_{2}JJ$
Tire size	185/70R14	195/60R15	205/50R16
Type		Steel belted radial, Tubeless	

I: CAPACITY SA08704G36

Model				Sedan/	Wagon			
			AWD					
			2.0) L	2.5	5 L		
			5MT	4AT	5MT	4AT		
Fuel tank		ℓ (US gal, Imp gal)		64 (16.	9, 14.1)			
Engine oil	Upper level	ℓ (US qt, Imp qt)		4.0 (4.	2, 3.5)			
	Lower level	ℓ (US qt, Imp qt)		3.0 (3.	2, 2.6)			
Transmission	gear oil	ℓ (US qt, Imp qt)	3.5 (3.7, 3.1)	_	3.5 (3.7, 3.1)	_		
Automatic tra	nsmission fluid	ℓ (US qt, Imp qt)	_	8.4 (8.9, 7.4)		9.3 (9.8, 8.2)		
AT differential	gear oil	ℓ (US qt, Imp qt)	_	1.2 (1.3, 1.1)		1.2 (1.3, 1.1)		
AWD rear diff	erential gear oil	ℓ (US qt, Imp qt)		0.8 (0.	8, 0.6)			
Power steering	g fluid	ℓ (US qt, Imp qt)		0.7 (0.	7, 0.6)			
Engine coolar	nt	ℓ (US qt, Imp qt)	7.0 (7.4, 6.2)	6.9 (7.3, 6.1)	6.8 (7.2, 6.0)	6.7 (7.1, 5.9)		

J: WEIGHT SAOB704G37

1. EUROPE SPEC. VEHICLE SAOBTO4G3703

Model					Sedan					
			AWD							
					2.0 L					
				LHD		RI	HD			
			LX	G	iL	G	iL			
			5MT	5MT*2	4AT*2	5MT*3	4AT*4			
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	785 (1,731)	810 (1,786)	785 (1,731)	810 (1,786)			
	Rear	kgf (lb)	585 (1,290)	605 (1,334)	605 (1,334)	605 (1,334)	605 (1,334)			
	Total	kgf (lb)	1,355 (2,988)	1,390 (3,065)	1,415 (3,120)	1,390 (3,065)	1,415 (3,120)			
Maximum permissible	Front	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)			
axle weight (M.P.A.W.)	Rear	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)			
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,835 (4,046)	1,835 (4,046)	1,835 (4,046)	1,835 (4,046)	1,835 (4,046)			

Model			Sedan						
				AV	VD				
				2.5	5 L				
			Lŀ	HD	RI	HD			
			G	iΧ	G	SX			
			5MT*5	4AT*5	5MT*3	4AT*3			
Curb weight (C.W.)	Front	kgf (lb)	805 (1,775)	830 (1,830)	795 (1,753)	820 (1,808)			
	Rear	kgf (lb)	605 (1,334)	610 (1,345)	605 (1,334)	610 (1,345)			
	Total	kgf (lb)	1,410 (3,109)	1,440 (3,175)	1,400 (3,087)	1,430 (3,153)			
Maximum permissible	Front	kgf (lb)	950 (2,095)	970 (2,139)	950 (2,095)	970 (2,139)			
axle weight (M.P.A.W.)	Rear	kgf (lb)	975 (2,150)	975 (2,150)	975 (2,150)	975 (2,150)			
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,875 (4,134)	1,875 (4,134)	1,875 (4,134)	1,875 (4,134)			

Model					Wagon					
			AWD							
					2.0 L					
				LHD		RI	I D			
			LX	G	iL	G	iL			
			5MT	5MT*2	4AT*2	5MT*3	4AT*3			
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	785 (1,731)	800 (1,764)	785 (1,731)	800 (1,764)			
	Rear	kgf (lb)	630 (1,389)	650 (1,433)	650 (1,433)	650 (1,433)	650 (1,433)			
	Total	kgf (lb)	1,400 (3,087)	1,435 (3,164)	1,450 (3,197)	1,435 (3,164)	1,450 (3,197)			
Maximum permissible	Front	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)			
axle weight (M.P.A.W.)	Rear	kgf (lb)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)			
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)			

Model					Wa	gon				
			AWD							
					2.	5 L				
				LHD			RHD			
			G	ΣX	GX*1	G	SX	GX*1		
			5MT*2	4AT*6	4AT*7	5MT*3	4AT*3	4AT*7		
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	820 (1,808)	845 (1,863)	790 (1,742)	805 (1,775)	845 (1,863)		
	Rear	kgf (lb)	655 (1,444)	655 (1,444)	680 (1,499)	655 (1,444)	655 (1,444)	680 (1,499)		
	Total	kgf (lb)	1,445 (3,186)	1,475 (3,252)	1,525 (3,363)	1,445 (3,186)	1,460 (3,219)	1,525 (3,363)		
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	960 (2,117)	980 (2,161)	980 (2,161)	960 (2,117)	980 (2,161)	980 (2,161)		
	Rear	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)		
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,945 (4,289)	1,945 (4,289)	1,970 (4,344)	1,945 (4,289)	1,945 (4,289)	1,970 (4,344)		

^{*1:} Pneumatic suspension equipped models

NOTE:

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
part	ts						(Side)	pack			
Front	kgf	6.5	2.1	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(14.3)	(4.6)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

^{*2:} Includes weight of side airbag

^{*3:} Includes weight of audio and side airbag
*4: Includes weight of cruise control, audio and side airbag

^{*5:} Includes weight of air conditioner and side airbag

^{*6:} Includes weight of cruise control, cold weather pack, air conditioner and side airbag

^{*7:} Includes weight of VDC, cruise control, audio, leather interior, cold weather pack, air conditioner, side airbag and sunroof

2. AUSTRALIA SPEC. VEHICLE SA08704G3704

Model			Sedan						
			AWD						
			2.0	0 L	2.5	5 L			
			GX RX						
			5MT*1	4AT*2	5MT*2	4AT*2			
Unladen mass (U.M.)	Front	kgf (lb)	780 (1,720)	775 (1,709)	775 (1,709)	785 (1,731)			
	Rear	kgf (lb)	585 (1,290)	585 (1,290)	595 (1,312)	595 (1,312)			
	Total	kgf (lb)	1,365 (3,010)	1,360 (2,999)	1,370 (3,021)	1,380 (3,043)			
Gross vehicle mass	Front	kgf (lb)	930 (2,051)	930 (2,051)	940 (2,073)	940 (2,073)			
(G.V.M.)	Rear	kgf (lb)	970 (2,139)	970 (2,139)	980 (2,161)	980 (2,161)			
	Total	kgf (lb)	1,900 (4,190)	1,900 (4,190)	1,920 (4,234)	1,920 (4,234)			

Model			Wagon						
			AWD						
			2.0) L	2.5	5 L			
			G	X	R	Х			
			5MT*1	5MT*2	4AT*2				
Unladen mass (U.M.)	Front	kgf (lb)	775 (1,709)	775 (1,709)	765 (1,687)	780 (1,720)			
	Rear	kgf (lb)	635 (1,400)	635 (1,400)	645 (1,422)	645 (1,422)			
	Total	kgf (lb)	1,410 (3,109)	1,410 (3,109)	1,410 (3,109)	1,425 (3,142)			
Gross vehicle mass	Front	kgf (lb)	930 (2,051)	930 (2,051)	950 (2,095)	950 (2,095)			
(G.V.M.)	Rear	kgf (lb)	1,010 (2,227)	1,010 (2,227)	1,040 (2,293)	1,040 (2,293)			
	Total	kgf (lb)	1,940 (4,278)	1,940 (4,278)	1,990 (4,388)	1,990 (4,388)			

^{*1:} Includes weight of cruise control, audio and air conditioner *2: Includes weight of audio

NOTE:

When any of the following optional parts are installed, add the weight to the unladen mass.

Weigh optio par	nal	VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag (Side)	Cold weather pack	Audio	Rear spoiler	Sports package
Front	kgf	6.5	2.1	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(14.3)	(4.6)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

3. OTHERS SA08704G3705

Model					Se	dan					
			AWD								
				2.0) L		2.5	5 L			
				LHD		RHD	LH	I D			
			LX	G	GL	GL	G	iΧ			
			5MT	5MT	4AT	4AT*1	5MT*1	4AT*1			
Curb weight (C.W.)	Front	kgf (lb)	765	775	800	800	785	810			
			(1,687)	(1,709)	(1,764)	(1,764)	(1,731)	(1,786)			
	Rear	kgf (lb)	590	610	610	605	610	615			
			(1,301)	(1,345)	(1,345)	(1,334)	(1,345)	(1,356)			
	Total	kgf (lb)	1,355	1,385	1,410	1,405	1,395	1,425			
			(2,988)	(3,054)	(3,109)	(3,098)	(3,076)	(3,142)			
Maximum permissible	Front	kgf (lb)	950	950	950	950	950	950			
axle weight (M.P.A.W.)			(2,095)	(2,095)	(2,095)	(2,095)	(2,095)	(2,095)			
	Rear	kgf (lb)	950	950	950	950	975	975			
		-	(2,095)	(2,095)	(2,095)	(2,095)	(2,139)	(2,139)			
Maximum permissible	Total	kgf (lb)	1,835	1,835	1,835	1,835	1,875	1,875			
weight (M.P.W.)			(4,046)	(4,046)	(4,046)	(4,046)	(4,134)	(4,134)			

Model	Model			Wagon						
			AWD							
			2.0) L		2.5	2.5 L			
				LHD		RHD	LH	LHD		
			LX	G	SL.	GL	G	GX		
			5MT	5MT	4AT	4AT*1	5MT*1	4AT*2		
Curb weight (C.W.)	Front	kgf (lb)	765 (1,687)	775 (1,709)	790 (1,742)	790 (1,742)	780 (1,720)	805 (1,775)		
	Rear	kgf (lb)	635 (1,400)	655 (1,444)	655 (1,444)	655 (1,444)	655 (1,444)	655 (1,444)		
	Total	kgf (lb)	1,400 (3,087)	1,430 (3,153)	1,445 (3,186)	1,445 (3,186)	1,435 (3,164)	1,460 (3,219)		
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	960 (2,117)	960 (2,117)		
	Rear	kgf (lb)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,040 (2,293)	1,040 (2,293)		
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,945 (4,289)	1,945 (4,289)		

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio	nal	VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag (Side)	Cold weather pack	Audio	Rear spoiler	Sports package
Front	kgf	6.5	2.1	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(14.3)	(4.6)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

^{*1:} Includes weight of audio
*2: Includes weight of cruise control and air conditioner

2. OUTBACK SA08705

A: DIMENSIONS SAOBTO5G28

Model			OUTBACK
			AWD
Overall length		mm (in)	4,720 (185.8)
Overall width		mm (in)	1,745 (68.7)
Overall height (a	t CW)	mm (in)	1,580 (62.2), 1,590 (62.6)*3
Compartment	Length	mm (in)	1,925 (75.8)
	Width mm (in)		1,440 (56.7), 1,420 (55.9)*1
Height		mm (in)	1,190 (46.9), 1,175 (46.3)*2
Wheelbase		mm (in)	2,650 (104.3)
Tread	Front	mm (in)	1,470 (57.9)
	Rear	mm (in)	1,460 (57.5)*3 , 1,465 (57.7)
Minimum road clearance	Without catalytic converter	mm (in)	195 (7.7)
	With catalytic converter	mm (in)	190 (7.5)
	Australia	mm (in)	200 (7.9)

^{*1:} With leather seat

B: ENGINE SA08705G29

Model		OUTI	BACK		
		AWD			
		2.5 L	3.0 L		
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	Horizontally opposed, liquid cooled, 6-cylinder, 4-stroke gasoline engine		
Valve arrangement		Overhead camshaft type			
Bore × Stroke	mm (in)	99.5 × 79.0 (3.917 × 3.110)	89.2 × 80.0 (3.512 × 3.150)		
Displacement	cm3 (cu in)	2,457 (149.9)	3,000 (183.06)		
Compression ratio		10.0	10.7		
Firing order		1 — 3 — 2 — 4	1 — 6 — 3 — 2 — 5 — 4		
Idle speed at Park/Neutral position	rpm	700±100	600±100		
Maximum output	kW (HP)/rpm	115 (154)/5,600	154 (206)/6,000		
Maximum torque	N·m (kgf-m, ft-lb)/rpm	223 (22.7, 164.2)/3,600	282 (378)/4,400		

^{*2:} With sunroof *3: Australia spec. vehicles

C: ELECTRICAL SA08705G30

Model	Model		OUTBACK					
			AWD					
			2.5 L	3.0 L				
Ignition timing at idling BTDC/rpm speed			10°±8°/600					
Spark plug	Type and manufacturer	RC1	PLFR6A NGK					
		Alternate	RC8YC4 CHAMPION BKR6E-11 NGK K20PR-U11 NIPPONDENSO					
Generator		12V — 90A		12V — 100A				
Battery	Type and capacity (5HR)	For Europe and South America	MT: 12V — 48AH (55D23L) AT: 12V — 52AH (75D23L)	12V — 52AH (75D23L)				
		Others	12V — 27AH (34B19L)					

D: TRANSMISSION SA08705G31

Model				OUTBACK			
			AWD				
			2.5	L	3.0 L		
Transmission type			5MT*1	4AT*2	4AT*2		
Clutch type			DSPD	TCC	TCC		
Gear ratio		1st	3.454	2.7	85		
		2nd	2.062	1.5	45		
		3rd	1.448	1.000			
		4th	1.088	88 0.694			
		5th	0.825	_			
	Reverse		3.333	2.272			
Auxiliary transmis	ssion gear ratio	High	1.000				
		Low	1.196				
Reduction gear	1st Reduction	Type of gear	_	Helical			
(Front drive)		Gear ratio	_	1.000			
	Final reduction	Type of gear	Hypoid	Hypoid			
		Gear ratio	3.900*3, 4.111*4	4.444	4.111		
Reduction gear	Transfer reduction	Type of gear	Helical	_	-		
(Rear drive)		Gear ratio	1.000	_	-		
	Final reduction	Type of gear	Hypoid	Нур	oid		
		Gear ratio	3.900*3, 4.111*4	4.444	4.111		

5MT*1: 5×2 forward speeds with synchromesh and 1-reverse

4AT*2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse DSPD: Dry Single Plate Diaphragm TCC: Torque Converter Clutch
*3: Except Australia spec. vehicles

*4: Australia spec. vehicles

E: STEERING SA08705G32

Model		OUTBACK
Туре		Rack and Pinion
Turns, lock to lock		LHD 3.4/RHD 3.0
Minimum turning circle	m (ft)	Curb to curb: 11.2±1.0 (36.7±3.3)
		Wall to wall: 12.0±1.0 (39.4±3.3)

F: SUSPENSION SA08705G33

Model	OUTBACK
Front	Macpherson strut type, Independent, Coil spring
Rear	Multi-link type, Independent, Coil spring

G: BRAKE SA08705G34

Model	OUTBACK			
Service brake system	Dual circuit hydraulic with vacuum suspended power unit			
Front	Ventilated disc brake			
Rear	Disc brake			
Parking brake	Mechanical on rear brakes			

H: TIRE SA08705G35

Model	OUTBACK
Rim size	$16 \times 6^{1}/_{2}JJ$
Tire size	215/60R16
Туре	Steel belted radial, Tubeless

I: CAPACITY SA08705G36

Model				OUTBACK				
			AWD					
			2.5	5 L	3.0 L			
			5MT	4,	AT			
Fuel tank ℓ (US gal, Imp gal)		ℓ (US gal, Imp gal)		64 (16.9, 14.1)				
Engine oil	Upper level	ℓ (US qt, Imp qt)	4.0 (4.	2, 3.5)	5.8 (6.1, 5.1)			
Lower level		ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)		4.8 (5.1, 4.2)			
Transmissio	n gear oil	ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)	_				
Automatic tr	ansmission fluid	ℓ (US qt, Imp qt)	_	— 9.3 (9.8, 8				
AT differential gear oil ℓ (US qt, In		ℓ (US qt, Imp qt)	— 1.2 (1		1.3, 1.1)			
AWD rear differential gear oil ℓ (US q		ℓ (US qt, Imp qt)	0.8 (0.8, 0.6)					
Power steering fluid ℓ (US qt, Imp qt		ℓ (US qt, Imp qt)						
Engine cool	ant	ℓ (US qt, Imp qt)	6.8 (7.2, 6.0)	6.7 (7.1, 5.9)	7.7 (8.1, 6.8)			

J: WEIGHT SA08705G37

1. EUROPE SPEC. VEHICLE SA08705G3703

Model			OUTBACK						
			AWD						
				4 cyli	nders		6 cyli	nders	
			LH	HD	RHD		LHD	RHD	
			5MT*1	4AT*1	5MT*2	4AT*2	4,	AT	
Curb weight (C.W.)	Front	kgf (lb)	815 (1,797)	830 (1,830)	800 (1,764)	815 (1,797)	915 (2,018)		
	Rear	kgf (lb)	675 (1,488)	675 (1,488)	670 (1,477)	670 (1,477)	695 (1,532)		
	Total	kgf (lb)	1,490 (3,285)	1,505 (3,319)	1,470 (3,241)	1,485 (3,274)	,	510 550)	
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,010 (2,227)	1,010 (2,227)	1,010 (2,227)	1,010 (2,227)	,	040 293)	
	Rear	kgf (lb)	1,050 (2,315)	1,050 (2,315)	1,050 (2,315)	1,050 (2,315)	,)50 315)	
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,980 (4,366)	1,980 (4,366)	1,980 (4,366)	1,980 (4,366)	,)85 597)	

^{*1:} Includes weight of air conditioner and side airbag *2: Includes weight of audio

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

2. AUSTRALIA SPEC. VEHICLE SA08705G3704

Model			OUTBACK			
			AWD			
-			4 cyli	6 cylinders		
			5MT*	4AT*	4AT	
Unladen mass (U.M.)	Front	kgf (lb)	790 (1,742)	800 (1,764)	900 (1,985)	
	Rear	kgf (lb)	650 (1,433)	650 (1,433)	690 (1,521)	
	Total	kgf (lb)	1,440 (3,175)	1,450 (3,197)	1,590 (3,506)	
Gross vehicle mass	Front	kgf (lb)	950 (2,095)	950 (2,095)	990 (2,183)	
(G.V.M.)	Rear	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	
	Total	kgf (lb)	1,990 (4,388)	1,990 (4,388)	2,030 (4,476)	

^{*:} Includes weight of audio

NOTE:

When any of the following optional parts are installed, add the weight to the unladen mass.

Weigh optio		Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

3. OTHERS SA08705G3705

Model			OUTBACK			
			5MT*	4AT*		
Curb weight (C.W.)	Front	kgf (lb)	810 (1,786)	859 (1,894)		
	Rear	kgf (lb)	670 (1,477)	711 (1,568)		
	Total	kgf (lb)	1,480 (3,263)	1,570 (3,462)		
Maximum permissible	Front	kgf (lb)	975 (2,150)	975 (2,150)		
axle weight (M.P.A.W.)	Rear	kgf (lb)	1,050 (2,315)	1,050 (2,315)		
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,980 (4,366)	1,980 (4,366)		

^{*:} Includes weight of cruise control and air conditioner

NOTE

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
part	ts						(Side)	pack			
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

MEMO:

PRECAUTION

	4	
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		Page
1.	Precaution	2

1. Precaution SA04677

A: PRECAUTION SAG4677F59

Please clearly understand and adhere to the following general precautions. They must be strictly followed to avoid minor or serious injury to the person doing the work or people in the area.

1. ABS SA04677F5901

Handle the ABS as a total system. Do not disassemble or attempt to repair individual parts. Doing so could prevent the ABS system from operating when needed or cause it to operate incorrectly and result in injury.

2. BRAKE FLUID SA04677F5902

If brake fluid gets in your eyes or on your skin, do the following:

- Wash out your eyes and seek immediate medical attention.
- Wash your skin with soap and then rinse thoroughly with water.

3. ELECTRIC FAN SA04677F5903

The electric fan may rotate without warning, even when the engine is not on. Do not place your hand, cloth, tools, or other items near the fan at any time.

4. ROAD TESTS SA04677F5904

Always conduct road tests in accordance with traffic rules and regulations to avoid bodily injury and interrupting traffic.

5. AIRBAG SA04677F5905

To prevent bodily injury from unexpected deployment of airbags and unnecessary maintenance, follow the instructions in this manual when performing maintenance on airbag components or nearby, and airbag wiring harnesses or nearby. To prevent unexpected deployment, perform one

of the steps below and then wait at least 20 seconds to discharge electricity before beginning work.

- Step 1: Turn the ignition switch OFF.
- Step 2: Remove the negative battery terminal.

6. AIRBAG DISPOSAL SA04677F5906

To prevent bodily injury from unexpected airbag deployment, do not dispose airbag modules in the same way as other refuse. Follow the special instructions for disposal in this manual. Follow all government regulations concerning disposal of refuse.

7. AIRBAG MODULE SA04677F5907

Adhere to the following when handing and storing the airbag module to prevent bodily injury from unexpected deployment:

- Do not hold harnesses or connectors to carry the module.
- Do not face the bag in the direction that it opens towards yourself or other people.
- Do not face the bag in the direction that it opens towards the floor or walls.

8. AIRBAG SPECIAL TOOLS SA04677F5908

To prevent unexpected deployment, only use special tools.

9. WINDOW SANAGTTESONS

Always wear safety glasses when working around any glass to prevent glass fragments from damaging your eyes.

10. WINDOW ADHESIVE SA04677F5910

Always use the specified urethane adhesive when attaching glass to prevent it from coming loose and falling, resulting in accidents and injury.

PRECAUTION

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MEMO:

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		Page
1.	Note	2

1. Note SA03676

A: NOTE SA03676A15

This is information that can improve efficiency of maintenance and assure sound work.

1. FASTENER NOTICE SA03676A1501

Fasteners are used to prevent parts from damage and dislocation due to looseness. Fasteners must be tightened to the specified torque.

Do not apply paint, lubricant, rust retardant, or other substances to the surface around bolts, fasteners, etc. Doing so will make it difficult to obtain the correct torque and result in looseness and other problems.

2. STATIC ELECTRICITY DAMAGE SA03676A1502

Do not touch the ECM, connectors, logic boards, and other such parts when there is a risk of static electricity. Always use a static electricity prevention cord or touch grounded metal before conducting work.

3. IGNITION OFF BATTERY SA03676A1503

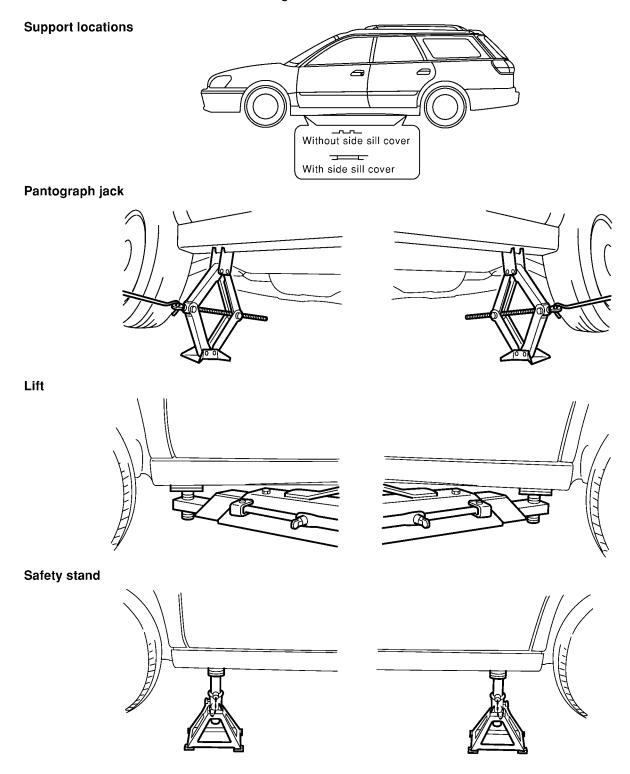
When removing the battery cables, always be sure to turn the ignition off to prevent electrical damage to the ECM from rush current.

4. SERVICE PARTS SA03676A1504

Use authentic service parts for maximum performance and maintenance, when conducting repairs. Subaru/FHI will not be responsible for poor performance resulting from the use of parts not specified by a genuine dealer.

5. LIFTS AND JACKS SA03676A1505

When using a lift or jack-ridged rack to raise a vehicle, always follow instructions concerning jack-up points and weight limits to prevent the vehicle from falling, which could result in injury. Be especially careful to make sure the vehicle is balanced before raising it.



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