WHEEL AND TYRE

WHEEL AND TYRE

CONTENTS 311		
GENERAL INFORMATION 2	ON-VEHICLE SERVICE	
SERVICE SPECIFICATIONS 2	Tyre Inflation Pressure Check	
TROUBLESHOOTING 3	Wheel Runout Check	
	WHEEL AND TYRE	

GENERAL INFORMATION

31100010030

Both steel type and aluminium type wheels have been adopted. The type of wheel used depends on the vehicle model. A compact spare tyre has been adopted as the spare tyre in some models.

Items		1300	1800
Wheel	Туре	Steel type Aluminium type* ¹	Steel type Aluminium type*1
	Size	14 × 5.5J 14 × 5.5JJ* ²	14 × 5.5J 14 × 5.5JJ* ²
	Amount of wheel offset mm	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3
Tyre	Size	175/65R14 82T	185/65R14 86H
Spare wheel	Туре	Steel type Aluminium type* ²	Steel type Aluminium type* ²
	Size	14×4.0T 14×5.5J* ¹ 14×5.5JJ* ²	15×4.0T 14×5.5J* ¹ 14×5.5JJ* ²
	Amount of wheel offset mm	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3
Spare tyre	Size	T125/70D15 (High pressure) 175/65R14 82T*1	T125/70D15 (High pressure) 185/65R14 86H* ¹

NOTE

*1: Optional items

SERVICE SPECIFICATIONS

31100030036

Items		Limit
Tread depth of tyre mm		1.6
Wheel runout (Radial runout) mm	runout (Radial runout) mm Steel wheel	
	Aluminium wheel	1.0 or less
Wheel runout (Lateral runout) mm	Steel wheel	1.2 or less
	Aluminium wheel	1.0 or less

^{*2:} Optional items<R.H. drive vehicles>

TROUBLESHOOTING

31100070038

Symptom		Probable cause		Remedy	Reference page
Rapid wear at shoulders	1110109	Under-inflation or lack of rotation	11X0116	Adjust the tyre pressure.	31-5.
Rapid wear at centre	110110	Over-inflation or lack of rotation	11X0117		
Cracked treads	11101111	Under-inflation		Adjust the tyre pressure.	31-5.
Wear on one side	11x0112	Excessive camber	11X0118	Inspect the camber.	Refer to GROUP 33A – On-vehicle Service.
Feathered edge	1110113	Incorrect toe-in	11X0119	Adjust the toe-in.	
Bald spots	1101114	Unbalanced wheel	11X0120	Adjust the imbalanced wheels.	_
Scalloped wear	11X0115	Lack of rotation or out-of-alignment s	f tyres or worn or uspension	Rotate the tyres and inspect the front suspension alignment.	Refer to GROUP 33A – On-vehicle Service.

ON-VEHICLE SERVICE

31100090034

TYRE INFLATION PRESSURE CHECK

Check the inflation pressure of the tyres. If it is not within the standard value, make the necessary adjustment.

TYRE WEAR CHECK

31100100034

Measure the tread depth of tyres.

Limit: 1.6 mm

If the remaining tread depth is less than the limit, replace the tyre.

NOTE

When the tread depth of tyres is reduced to 1.6 mm or less, wear indicators will appear.

WHEEL RUNOUT CHECK

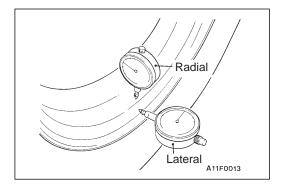
31100110037

Jack up the vehicle so that the wheels are clear of the floor. While slowly turning the wheel, measure wheel runout with a dial indicator.

Limit:

Item	Steel wheel	Aluminium wheel
Radial runout mm	1.2	1.0
Lateral runout mm	1.2	1.0

If wheel runout exceeds the limit, replace the wheel.



WHEEL AND TYRE

31100130033

INSTALLATION SERVICE POINT

Tighten the wheel nut to the specified torque.

Tightening torque: 98-117 Nm

GENERAL

OUTLINE OF CHANGES

The wheel and tyre have been changed as follows.

GENERAL SPECIFICATION

Items		1300		1800,1900	
		FAMILY, COMFORT	SPORT	FAMILY, COMFORT	SPORT
Wheel	Туре	Steel type Aluminium type*1	Aluminium type	Steel type Aluminium type*1	Aluminium type
	Size	14 × 5.5J	14 × 5.5JJ	14 × 5.5J	15 × 6.0J
	Amount of wheel offset mm	46	46	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3	114.3	114.3
Tyre	Size	175/65 R14 82T	185/65 R14 86H	185/65 R14 86H	195/55 R15 84V
Spare wheel	Туре	Steel type Aluminium type*2	Steel type Aluminium type*2	Steel type Aluminium type*2	Steel type Aluminium type*2
	Size	15 × 4.0T 14 × 5.5J*1	15 × 4.0T 14 × 5.5J*1	15 × 4.0T 14 × 5.5J*1	15 × 4.0T 15 × 6.0J*1
	Amount of wheel offset mm	46	46	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3	114.3	114.3
Spare tyre	Size	T125/70 D15 (High pressure) 175/65 R14 82T*1	T125/70 D15 (High pressure) 185/65 R14 86H* ¹	T125/70 D15 (High pressure) 185/65 R14 86H* ¹	T125/70 D15 (High pressure) 195/55 R15 84V* ¹

NOTE

*1: Optional items
*2: Optional items <R.H. drive vehicles>

NOTES

GENERAL

OUTLINE OF CHANGES

- Due the introduction of 1600 engine models, wheel and tyre specificatios have been revised.
- A 15-inch wheel and tyre is now available as option. <FAMILY, COMFORT>
- Spare tyre specification has been revised.

GENERAL SPECIFICATION

Items		1300	1600,1800		1900
		FAMILY, COMFORT	FAMILY, COMFORT	SPORT	FAMILY, COMFORT
Wheel	Туре	Steel type Aluminium type*	Steel type Aluminium type*	Aluminium type	Steel type Aluminium type*
	Size	14 × 5.5J 15 × 6.0J*	14 × 5.5JJ 15 × 6.0J*	15 × 6.0J	14 × 5.5J 15 × 6.0J*
	Amount of wheel offset mm	46	46	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3	114.3	114.3
Tyre	Size	175/65 R14 82T 195/55 R15 85H*	185/65 R14 86H 195/55 R15 85H*	195/55 R15 85H	185/65 R14 86H 195/55 R15 85H*
Spare wheel	Туре	Steel type	Steel type	Steel type	Steel type
wrieer	Size	15 × 4.0T 14 × 5.5J* 15 × 6.0J*	15 × 4.0T 14 × 5.5J* 15 × 6.0J*	15 × 4.0T 15 × 6.0J*	15 × 4.0T 14 × 5.5J* 15 × 6.0J*
	Amount of wheel offset mm	46 44*	46 44*	46 44*	46 44*
	Pitch circle diameter (P.C.D.) mm	114.3	114.3	114.3	114.3
Spare tyre	Size	T125/70 D15 (High pressure) 175/65 R14 82T* 195/55 R15 85H*	T125/70 D15 (High pressure) 185/65 R14 86H* 195/55 R15 85H*	T125/70 D15 (High pressure) 195/55 R15 85H*	T125/70 D15 (High pressure) 185/65 R14 86H* 195/55 R15 85H*

NOTE

*: Optional items

NOTES

GENERAL

OUTLINE OF CHANGE

The tyre specification has been revised. <1300>

GENERAL SPECIFICATION

Item	1300	
	New	Old
Tyre size	185/65 R14 86H	175/65 R14 82T

NOTES



SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN			No.: ESB-01E00-011				
				Date : 2002-03-19	<model></model>	<m y=""></m>	
Subject: ADDITION OF SPECIAL MO SPACE STAR			DDEL FOR 2002	(EC)SPACE STAR (DG0A)	02-02		
Group:	GENERAL Dra			aft No.: 01CH006			
INFORMAT	TION	INTERNATIONAL CAR ADMINISTRATION OFFICE		O. Kai - E.V.P. & G.M. After Sales Service Dent			

1. Description:

This Service Bulletin informs you of addition of the special model <Joint Action Model (JAM)> for the 2002 SPACE STAR.

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'02 SPACE STAR	CMXE99E1-B	(English)	
Workshop Manual chassis SUPPLEMENT	CMXS99E1-B	(Spanish)	
	CMXF99E1-B	(French)	
	CMXG99E1-B	(German)	
	CMXD99E1-B	(Dutch)	
	CMXW99E1-B	(Swedish)	
'99-'02 SPACE STAR CD-ROM	CMXX99E3-CD	(English)	
	CMXX99E3-CD	(Spanish)	
	CMXX99E3-CD	(Swedish)	
	CMXZ99E3-CD	(French)	
	CMXZ99E3-CD	(German)	
	CMXZ99E3-CD	(Dutch)	
	CMXZ99E3-CD	(Italian)	

SPACE STAR

General	00
Wheel and Tyre	31

WORKSHOP MANUAL SUPPLEMENT

FOREWORD

This manual outlines changes in servicing procedures related to the chassis including vehicle inspections, adjustments and improvements in the newly equipped models. Use the following manuals in combination with this manual required.

TECHNICAL INFORMATION MANUAL

IMXE99E1(Basic)

IMXE99E1-A (Supplement)

WORKSHOP MANUAL

CHASSIS GROUP

CMXE99E1(Basic)

CMXE99E1-A (Supplement)

CMXE99E1-B (Supplement)

ENGINE GROUP

PWEE

(Looseleaf edition)

ELECTRICAL WIRING

EMXE99E1(Basic)

EMXE99E1-A (Supplement)

EMXE99E1-B (Supplement)

BODY REPAIR MANUAL

BMXE99E1

PARTS CATALOGUE

C606H502D

All information, illustrations and product descriptions contained in this manual are current as at the time of publication. We, however, reserve the right to make changes at any time without prior notice or obligation.

A MITSUBISHI MOTOR SALES

Europe B.V.

"GDI" is a registered trade mark of Mitsubishi Motors Corporation.

© Mitsubishi Motors Corporation

Dec. 2001

GENERAL

CONTENTS

TARGETS OF DEVELOPMENT 2	Models3
TECHNICAL FEATURES 2	Model Code
VEHICLE IDENTIFICATION	MAJOR SPECIFICATIONS4

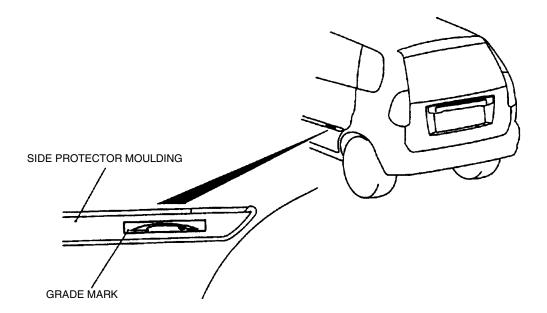
TARGETS OF DEVELOPMENT

The SPACE STAR has attained a good reputation since it has been launched in the market. In order to meet more needs in the market, a special model <Joint Action Model (JAM)> has been added. This is to diversify the launched models and to attain their improved marketability.

TECHNICAL FEATURES

A new model (JAM) has been added. The new model has the following features.

- 1. Interior trim exclusively for the JAM has been employed.
- 2. Color center panel exclusively for the JAM has been employed.
- 3. Color combination meter panel exclusively for the JAM has been employed.
- 4. Color inner door handles exclusively for the JAM have been employed.
- 5. 15-inch aluminium wheels exclusively for the JAM have been employed.
- 6. As a grade mark on the side protector moulding, the grade mark exclusively for the JAM has been added.

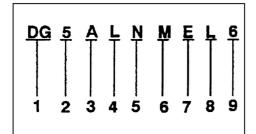


A10003AJ

- 7. The color key door mirror has been employed.
- 8. The roof rails have been made standard equipment.

VEHICLE IDENTIFICATION MODELS

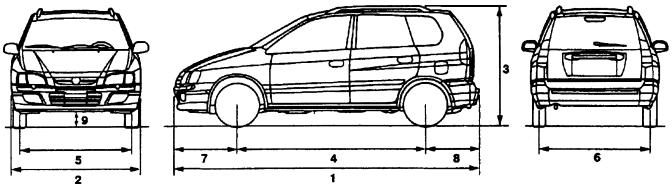
Model code)	Engine Model	Transmission model	Fuel supply system
DG3A	LNMEL6/R6	4G18 MPI (1,584 mL)	F5MR1 <5M/T>	MPI (Electronically Controlled
				Multi Point Fuel Injection)
DG4A	LNMFL6/R6	F9Q1(1,870 mL)	F5MV1 <5M/T>	DI-D (Direct Injection Diesel)
DG5A	LNMCL6/R6	4G93 GDI (1,834 mL)	F5M42 <5M/T>	GDI (Gasoline Direct Injection)
	LRMCL6/R6		F4A42 <invecs-ii 4a="" t=""></invecs-ii>	



MODEL CODE

No.	Items	Contents	
1	Development	DG: MISTUBISHI SPACE	
		STAR	
2	Engine type	3: 1,584 mL petrol engine	
		4: 1,870 mL diesel engine	
		5: 1,834 mL petrol engine	
3	Sort	A: Passenger car	
4	Body style	L: 5-door	
5	Transmission type	N: 5-speed manual	
		transmission	
		R: 4-speed automatic	
		transmission	
6	Trim level	M: JAM	
7	Specification engine feature	C: GDI	
		E: MPI	
		F: DI-D	
8	Steering wheel location	L: Left hand	
		R: Right hand	
9	Destination	6: For Europe	

MAJOR SPECIFICATIONS



AV0109AJ

Items			DG3A LNMEL6, LNMER6	DG5A LNMCL6, LNMCR6
Vehicle	Overall length	1	4,030	4,030
dimensions	Overall width	2	1,715	1,715
mm	Overall height	3	1,555	1,555
	(unladen)			
	Wheelbase	4	2,490	2,490
	Track-front	5	1,475	1,475
	Track-rear	6	1,470	1,470
	Overhang-front	7	835	835
	Overhang-rear	8	695	695
	Ground clearance	9	155	150
	(unladen)			
Vehicle	Kerb weight		1,175	1,240
weight kg	Max. gross vehicle		1,690	1,730
	weight rating			
	Max. axle weight rating-front Max. axle weight		880	920
			850	850
	rating-rear			
Seating capa			5	
Engine	Model No.		4G18	4G93
	Total displacement mL		1,584	1,834
Transmis-	Model No.		F5MR1	F5M42
sion	Туре		5 speed-manual	
Fuel	Fuel supply system		MPI	GDI
system	stem			

			DOSA I DIAGLO I DIAGDO	DO 4A LABATE O LABATEDO
Items			DG5A LRMCL6, LRMCR6	DG4A LNMFL6, LNMFR6
Vehicle	Overall length	1	4,030	4,030
dimensions	Overall width	2	1,715	1,715
mm	Overall height	3	1,555	1,555
	(unladen)			
	Wheelbase	4	2,490	2,490
	Track-front	5	1,475	1,475
	Track-rear	6	1,470	1,470
	Overhang-front	7	835	835
	Overhang-rear	8	695	695
	Ground clearance	9	150	145
	(unladen)			
Vehicle	J		1,255	1,260
weight kg			1,730	1,730
	Max. axle weight		920	920
	rating-front Max. axle weight			
			850	850
rating-rear				
Seating capa	Seating capacity		5	
Engine	Model No.		4G93	F9QT
	Total displacement mL		1,834	1,870
Transmis-	Model No.		F4A42	F5MV1
sion	Type		4 speed-automatic	5 speed-manual
Fuel	Fuel supply system		GDI	DI-D
system				

GENERAL

OUTLINE OF CHANGE

With addition of a special model <Joint Action Model (JAM)>, the specifications have been established as follows:

GENERAL INFORMATION SPECIFICATIONS

Items		Special model <joint (jam)="" action="" model=""></joint>	Base model (COMFORT)
Wheel	Туре	Aluminium type	Steel type
			Aluminium type*
	Size	15 x 6.0J	14 x 5.5J, 14 x 5.5JJ*, 15 x 6.0J*
	Amount of wheel offset mm	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3
Tyre	Size	195/55R15 85H	185/65R14 86H, 195/55R15 85H*
Spare	Type	Steel type	Steel type
wheel	Size	15 x 4.0T, 15 x 6.0J*	15 x 4.0T, 14 x 5.5J*, 15 x 6.0J*
	Amount of wheel offset mm	46	46
	Pitch circle diameter (P.C.D.) mm	114.3	114.3
Spare	Size	T125/70 D15 (High pressure)	T125/70 D15(High pressure)
tyre		195/55R15 85H*	185/65R14 86H*, 195/55R15 85H*

NOTE

^{*:} Optional items