

Body Repair Manual

SUPPLEMENT

CARISMA'97

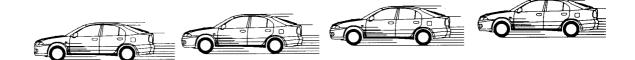












Pub. No. PBGE95E1-A FOR EUROPE

CARISMA

BODY REPAIR MANUAL SUPPLEMENT

FOREWORD

This manual has been prepared for the use by all service mechanics engaged in the body repair service of the MITSUBISHI CARISMA. Because of the introduction of new vehicle models, the differences regarding the body construction, standard frame dimensions, etc. for each basic vehicle type are explained. All of the vehicle's original strength and durability can be maintained by following the welding procedures contained in this manual. Note that, in order to maximize the efficiency of the repair work, first, both the extent of the damage and the replacement parts that are needed must be calculated accurately, and then the actual work must be performed accurately and efficiently. The publications shown on the following page are also available, and should be used in conjunction with this manual. Mitsubishi Motor Sales Europe B.V. reserves the right to make changes in design and specification and/or to make additions to or improvements in its products without imposing any obligation upon itself to install them on its products previously manufactured.

GROUP INDEX

GENERAL	0
BODY CONSTRUCTION	1
BODY DIMENSIONS	2
WELDED PANEL	3
CORROSION PROTECTION	4
SYNTHETIC-RESIN PARTS	5
BODY COLOUR	
WIRING AND PIPING DIAGRAM	7
REFERENCE MATERIAL	8



RELATED PUBLICATIONS

TECHNICAL INFORMATION MANUAL

Pub. No. PYGE95E1

Pub. No. PYGE96E1

WORKSHOP MANUAL

CHASSIS GROUP

Pub. No. PWDE9502

Pub. No. PWDE9502-A

ENGINE GROUP

Pub. No. PWEE 🗆 🗆 🗆

(Looseleaf edition)

ELECTRICAL WIRING

Pub. No.PHDE9501

Pub. No. PHDE9501-A

PARTS CATALOGUE

Pub. No. N606C006D □

BODY REPAIR MANUAL

Pub. No. PBGE95E1 (Basic)

Pub. No. PBAE9216 (Passenger Cars & Light Commercial Vehicles)

MANUAL DESCRIPTION

CONTENTS

The first page of this manual contains a table of contents which lists the title and number of each group.

TEXT

The vehicles to which the information in the text pertains are generally designated according to their body classification.

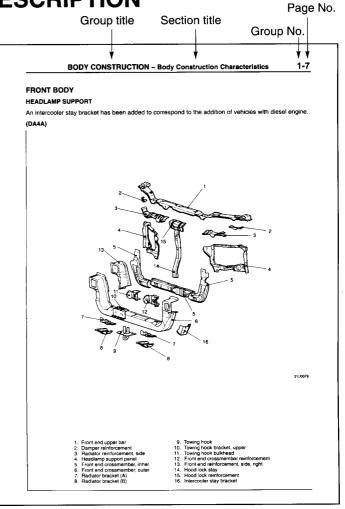
In some cases, other limiting designations, the information can be asumed to cover all models.

PAGE NUMBERS

All pages are numbered consecutively within each group. The page numbers can be found on the upper left or right of each page.

SECTION TITLES

The section titles can be found at the upper centre of each page.



0 GENERAL

VEHICLE IDENTIFICATION	0-2
MAJOR SPECIFICATIONS	0-3
OUTLINE OF CHANGES	0-8

0

VEHICLE IDENTIFICATION

MODELS

< Hatchback >

Model code		Engine model	Transmission model	Fuel supply system
DA1A	LNMEL6/R6	4G92-SOHC (1,597 <i>mℓ</i>)	F5MR1 (2WD-5M/T)	MPI
	LNDEL6/R6			
	LRDEL6/R6		F4A41 (2WD-4A/T)	1
	LNJEL6/R6		F5MR1(2WD-5M/T)	
	LRJEL6/R6		F4A41 (2WD-4A/T)	
DA2A	LNJEL6/R6	4G93-SOHC (1,834 <i>mℓ</i>)	F5MR2 (2WD-5M/T)	
	LRJEL6/R6		F4A42 (2WD-4A/T)	
	LNPEL6/R6		F5MR2 (2WD-5M/T)	
	LRPEL6/R6		F4A42 (2WD-4A/T)	
	LNGML6	4G93-DOHC (1,834 <i>mℓ</i>)	F5MR2 (2WD-5M/T)	
DA4A	LNDFL6/R6	F8QT (1,870 <i>mℓ</i>)	F5MR3 (2WD-5M/T)	Fuel injection pump
	LNJFL6/R6			
	LNPFL6			

< Sedan >

Model code		Engine model	Transmission model	Fuel supply system
DA1A	SNMEL6/R6	4G92-SOHC (1,597 <i>mℓ</i>)	F5MR1 (2WD-5M/T)	MPI
	SNMVL6B	-		
	SNDEL6/R6			
	SNDVL6B			
	SRDEL6/R6		F4A41 (2WD-4A/T)	
	SRDVL6B			
	SNJEL6/R6		F5MR1 (2WD-5M/T)	
	SNJVL6B			
	SRJEL6/R6		F4A41 (2WD-4A/T)	
	SRJVL6B			
DA2A	SNJEL6/R6	4G93-SOHC (1,834 <i>mℓ</i>)	F5MR2 (2WD-5M/T)	
	SRJEL6/R6		F4A42 (2WD-4A/T)	
	SNPEL6/R6		F5MR2 (2WD-5M/T)	
	SRPEL6/R6		F4A42 (2WD-4A/T)	
	SNGML6	4G93-DOHC (1,834 <i>mℓ</i>)	F5MR2 (2WD-5M/T)	
DA4A	SNDFL6/R6	F8QT (1,870 <i>mℓ</i>)	F5MR3 (2WD-5M/T)	Fuel injection pump
	SNJFL6/R6			
	SNPFL6			

MAJOR SPECIFICATIONS

< Hatchback >

		DA1A				
Items		LNMEL6	LNDEL6	LRDEL6	LNJEL6	LRJEL6
		LNMER6	LNDER6	LRDER6	LNJER6	LRJER6
Dimensions	mm					
Overall length				4,435		
Overall width				1,695		
Overall height (unladen)				1,405		
Wheelbase				2,550		
Track-front				1,455		
Track-rear				1,475		
Body overhang						
Front				880		
Rear				1,005		
Ground clearance (unladen)				155*1, 150*2		
Wheel alignment						
Front wheel alignment						
Toe-in (at the centre of tyre tread)	mm			1 ± 2		
Toe angle (per wheel)				0°06' ± 12'		
Camber				$0^{\circ}00' \pm 30'$		
Caster				2°12'		
Kingpin inclination angle				12°41'		
Rear wheel alignment						
Toe-in (at the centre of tyre tread)	mm			3 ± 2		
Toe-in (at the rim of wheel disc)	mm			1.5 ± 1		
Toe angle (per wheel)		0°18' ± 12'				
Camber		-0°40' ± 30'				
Wheels and tyres						
Tyre size		175/65R14 82T, 175/70R14 84T*3				
Wheel size		14 x 5.5J				
Offset	mm			44		

	•	DA2A					
Items		LNJEL6	LRJEL6	LNPEL6	LRPEL6	LNGML6	
		LNJER6	LRJER6	LNPER6	LRPER6		
Dimensions	mm						
Overall length		4,435					
Overall width		1,695					
Overall height (unladen)				1,4	105		
Wheelbase				2,5	550		
Track-front				1,4	155		
Track-rear				1,4	175		
Body overhang							
Front		880					
Rear		1,005					
Ground clearance (unladen)			155*¹, 150*²				

^{*1:} M/T *2: A/T *3: Optional items

Wheel alignment						
Front wheel alignment						
Toe-in (at the centre of tyre tread)	mm		1 ± 2			
Toe angle (per wheel)			0°06' ± 12'			
Camber			0°00' ± 30'			
Caster			2°12'			
Kingpin inclination angle			12°41'			
Rear wheel alignment						
Toe-in (at the centre of tyre tread)	mm		3 ± 2			
Toe-in (at the rim of wheel disc)	mm		1.5 ± 1			
Toe angle (per wheel)			0°18' ± 12'			
Camber			-0°40' ± 30'			
Wheels and tyres						
Tyre size		185/65R14 86H	185/65R14 86H	195/60R14 86V		
			195/60R14 86V*3	205/50R15 86V*3		
Wheel size		14 x 5.5J 14 x 5.5J 14 x 5.5J				
				15 x 6J* ³		
Offset	mm	44	44	44		

		DA4A					
Items		LNDFL6	LNJFL6	LNPFL6			
		LNDFR6	LNJFR6				
Dimensions	mm						
Overall length			4,445				
Overall width			1,695				
Overall height (unladen)			1,405				
Wheelbase			2,550				
Track-front			1,455				
Track-rear			1,475				
Body overhang							
Front			890				
Rear			1,005				
Ground clearance (unladen)			155				
Wheel alignment							
Front wheel alignment							
Toe-in (at the centre of tyre tread)	mm		1 ± 2				
Toe angle (per wheel)			0°06' ± 12'				
Camber			0°00' ± 30'				
Caster			2°12'				
Kingpin inclination angle			12°41'				
Rear wheel alignment							
Toe-in (at the centre of tyre tread)	mm		3 ± 2				
Toe-in (at the rim of wheel disc)	mm		1.5 ± 1				
Toe angle (per wheel)			0°18' ± 12'				
Camber			-0°40' ± 30'				
Wheels and tyres							
Tyre size			175/65R14 82T				
Wheel size			14 x 5.5J				
Offset	mm		44				

^{*1:} M/T *2: A/T *3: Optional items

< Sedan >

		DA1A					
Items		SNMEL6	SNMVL6B	SNDEL6	SNDVL6B	SRDEL6	SRDVL6B
		SNMER6		SNDER6		SRDER6	
Dimensions	mm						
Overall length				4,4	135		
Overall width				1,€	895		
Overall height (unladen)				1,405,	1,420*4		
Wheelbase				2,5	550		
Track-front				1,4	155		
Track-rear				1,4	75		
Body overhang							
Front				88	30		
Rear					005		
Ground clearance (unladen)			155*	¹ , 150* ² , 1	70*4 *1, 16	5*4*2	
Wheel alignment							
Front wheel alignment							
Toe-in (at the centre of tyre tread)	mm			1 :	± 2		
Toe angle (per wheel)				0°06'	± 12'		
Camber				0°00	± 30'		
Caster				2°	12'		
Kingpin inclination angle				12°	°41'		
Rear wheel alignment							
Toe-in (at the centre of tyre tread)	mm			3 :	± 2		
Toe-in (at the rim of wheel disc)	mm				± 1		
Toe angle (per wheel)		0°18′ ± 12′					
Camber		−0°40′ ± 30′					
Wheels and tyres							
Tyre size		175/65R14 82T, 175/70R14 84T*3, 175/65R14 82H*4					82H*4
Wheel size		14 x 5.5J					
Offset	mm			4	4		

		DA1A						
Items		SNJEL6 SNJER6	SNJVL6B	SRJEL6 SRJER6	SRJVL6B			
Dimensions	mm							
Overall length			4,4	35				
Overall width			1,6	95				
Overall height (unladen)			1,405, 1	1,420* ⁴				
Wheelbase			2,5	50				
Track-front			1,4	55				
Track-rear			1,4	75				
Body overhang								
Front		880						
Rear		1,005						
Ground clearance (unladen)			155*1, 150*2, 17	70*4 *1, 165*4*2				

^{*1:} M/T
*2: A/T
*3: Optional items
*4: 6B models

Wheel alignment		
Front wheel alignment		
Toe-in (at the centre of tyre tread)	mm	1 ± 2
Toe angle (per wheel)		0°06' ± 12'
Camber		0°00' ± 30'
Caster		2°12'
Kingpin inclination angle		12°41'
Rear wheel alignment		
Toe-in (at the centre of tyre tread)	mm	3 ± 2
Toe-in (at the rim of wheel disc)	mm	1.5 ± 1
Toe angle (per wheel)		0°18' ± 12'
Camber		-0°40' ± 30'
Wheels and tyres		
Tyre size		175/65R14 82T, 175/70R14 84T*3, 175/65R14 82H*4
Wheel size		14 x 5.5J
Offset	mm	44

		DA2A						
Items		SNJEL6	SRJEL6	SNPEL6	SRPEL6	SNGML6		
		SNJER6	SRJER6	SNPER6	SRPER6			
Dimensions	mm		***************************************					
Overall length			4,435					
Overall width				1,6	895			
Overall height (unladen)				1,4	105			
Wheelbase				2,5	550			
Track-front				1,4	155			
Track-rear				1,4	175			
Body overhang								
Front				88	30			
Rear				1,0	05			
Ground clearance (unladen)				155*¹,	150*2			
Wheel alignment								
Front wheel alignment								
Toe-in (at the centre of tyre tread)	mm			1 :	± 2			
Toe angle (per wheel)				0°06'	± 12'			
Camber				0°00'	± 30'			
Caster				2°	12'			
Kingpin inclination angle				12°	'41'			
Rear wheel alignment								
Toe-in (at the centre of tyre tread)	mm			3 ±	± 2			
Toe-in (at the rim of wheel disc)	mm			1.5	± 1			
Toe angle (per wheel)				0°18'	± 12'			
Camber				-0°40	' ± 30'			
Wheels and tyres								
Tyre size		185/65R14 86H						
•		195/60R14 86V* ³ 205/50R15 86V ³						
Wheel size		14 x 5.5J 14 x 5.5J 14 x 5.5J						
		15 x 6J* ³						
Offset	mm	4	4	4	4	44		

^{*1:} M/T *2: A/T *3: Optional items *4: 6B models

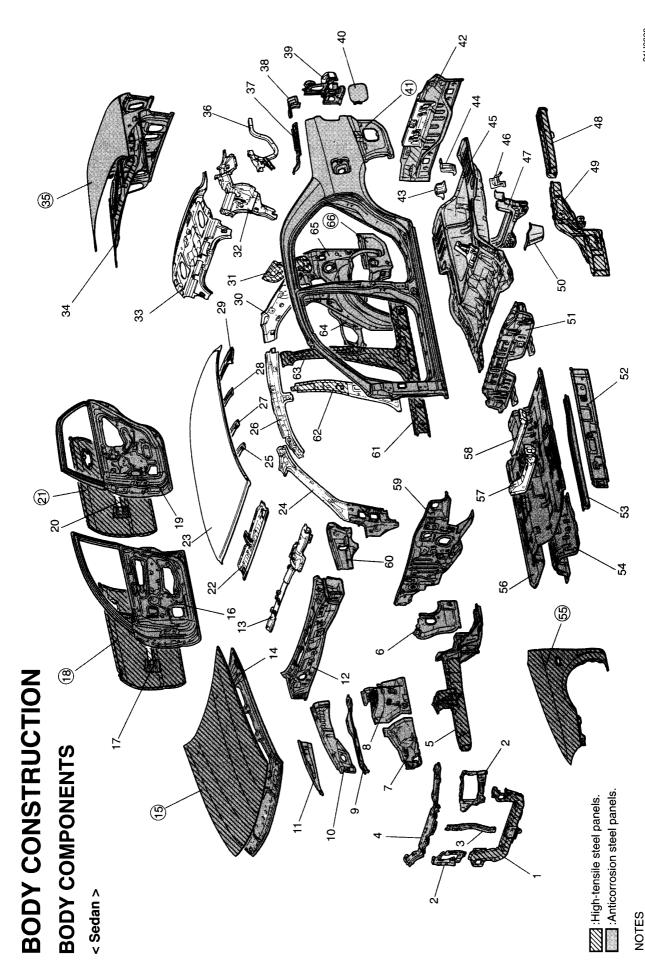
			DA4A		
Items		SNDFL6	SNJFL6	SNPFL6	
		SNDFR6	SNJFR6		
Dimensions	mm				
Overall length			4,445		
Overall width			1,695		
Overall height (unladen)			1,405		
Wheelbase			2,550		
Track-front			1,455		
Track-rear			1,475		
Body overhang					
Front			890		
Rear			1,005		
Ground clearance (unladen)			155		
Wheel alignment					
Front wheel alignment					
Toe-in (at the centre of tyre tread)	mm		1 ± 2		
Toe angle (per wheel)			0°06' ± 12'		
Camber			0°00' ± 30'		
Caster			2°12'		
Kingpin inclination angle			12°41'		
Rear wheel alignment					
Toe-in (at the centre of tyre tread)	mm		3 ± 2		
Toe-in (at the rim of wheel disc)	mm	1.5 ± 1			
Toe angle (per wheel)			0°18' ± 12'		
Camber			-0°40' ± 30'		
Wheels and tyres					
Tyre size			175/65R14 82T		
Wheel size			14 x 5.5J		
Offset	mm		44		

OUTLINE OF CHANGES

Items	Remarks
BODY CONSTRUCTION Brackets and reinforcements have been added to correspond to the adoption of diesel engines. (Headlamp support, roof)	DA4A
 Special parts for sedan have been established for use in the following places: Side body, rear deck, rear end panel, rear floor, roof, rear door 	Sedan
 Silencer installation locations have been established for vehicles with diesel engines. 	DA4A
BODY DIMENSIONS	
Standard dimensions for sedan have been established.	
WELDED PANEL REPLACEMENT	
The following welding points have been established for sedan:	
Quarter outer, rear floor, rear end panel, quarter inner, roof panel	
CORROSION PROTECTION	
 Sealant application locations have been established for sedan. 	
SYNTHETIC-RESIN PARTS	Sedan
 Synthetic-resin part locations have been established for sedan. 	
BODY COLOUR	
Body colours have been established for sedan.	
WIRING AND PIPING DIAGRAM	
Wiring configuration diagrams have been established for sedan.	
REFERENCE MATERIAL	
Trunk lid fitting procedures have been established.	

1 BODY CONSTRUCTION

BODY COMPONENTS	1- 2
BODY CONSTRUCTION CHARACTERISTICS	1- 4
BODY MAIN CROSS-SECTIONAL VIEWS	1- 4
MAINTENANCE, SERVICEABILITY	1- 6
FRONT BODY	1- 7
SIDE BODY	1- 8
UNDER BODY	1-10
REAR BODY	1-12
ROOF	1-13
DOOR	1-15
NOTES REGARDING PANEL REPLACEMENT	1-16
CII ENCED ADDITIONAL CONTIONS	



Number with \bigcirc indicates steel panels which have been galvanized on both sides, and which have a flush plating with outstanding paint finish on the surfaces.

Ň	
•	
\sim	
empe	
≠	
Ĕ	
9	
┶	
Ś	
SSO	
2	
$\bar{\mathbf{c}}$	
\overline{a}	
\simeq	
ā	
_	
₪	
Ō	
1	
4	

Roof panel

Headlamp support panel Hood lock stay

Front end upper bar

Front floor side sill, inner, front Front sidemember

Spring house panel Front fender shield $4.70.0 \times 9.9$

Front upper frame, lower

-ront upper frame, inner

Front upper frame, outer Cowl top panel

Front deck crossmember

Hood panel, outer Hood panel, inner

Front door inner panel Front side door beam

-ront door outer panel Rear door inner panel Rear side door beam

Rear door outer panel

Side roof rail, inner Roof bow, centre Front pillar, inner Roof bow, front Roof bow, rear

Rear floor sidemember extension

Rear floor sidemember

49

-uel tank rear bracket

Rear floor extension

ront floor side sill, inner

Backbone reinforcement

Front floor sidemember

Rear floor crossmember

Muffler hanger, centre

Rear floor pan

Rear roof rail, inner Rear pillar, inner

Rear pillar seatbelt reinforcement Rear seat back brace

runk lid panel, inner Rear shelf panel

Frunk lid panel, outer **Frunk lid hinge**

Front floor crossmember, front Front floor crossmember, rear

Dash panel

Front floor pan

Front fender

Quarter outer extension, upper Quarter outer extension, lower

Rear combination lamp housing -uel filler door panel 26. 228. 330. 331. 337. 337. 338. 338. 339. 447. 447. 447.

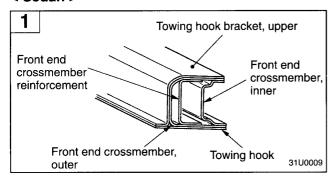
Spare tire bracket Side panel, outer Rear end panel Jack bracket

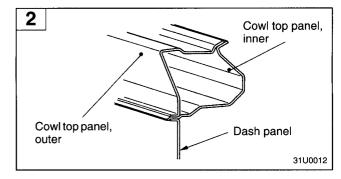
Front upper frame extension, outer Side sill outer reinforcement Sentre pillar reinforcement Rear wheelhouse, inner Rear floor side brace Quarter panel, inner Sentre pillar, inner 55.7. 55.7. 55.7. 55.6. 66. 66.

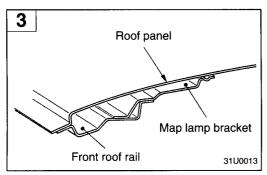
BODY CONSTRUCTION CHARACTERISTICS

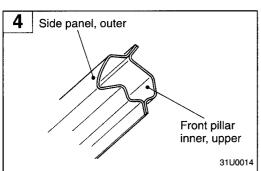
BODY MAIN CROSS-SECTIONAL VIEWS

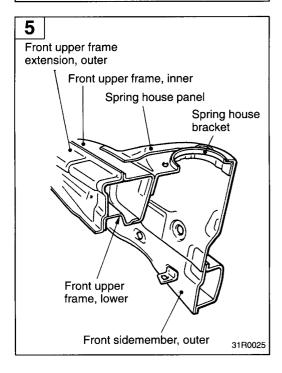
< Sedan >

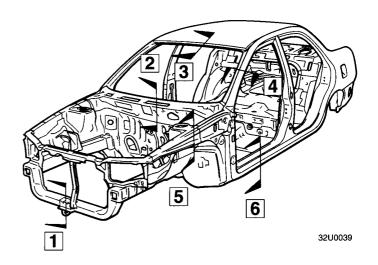


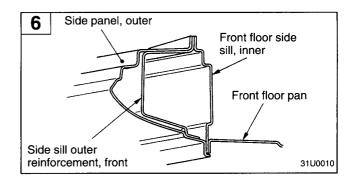


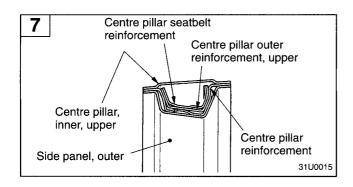


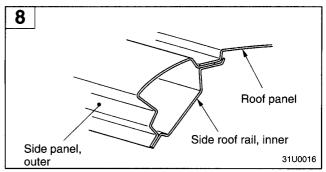


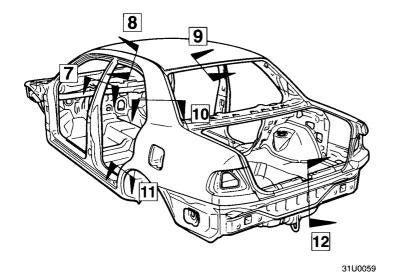


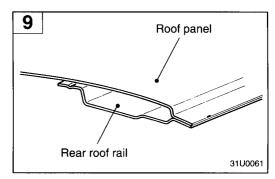


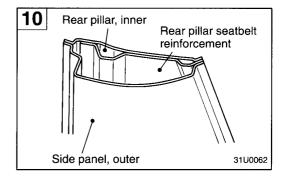


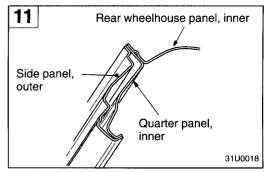


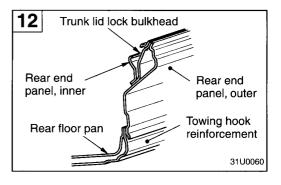










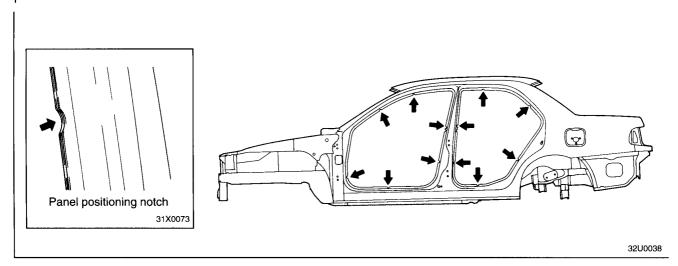


MAINTENANCE, SERVICEABILITY

SIDE STRUCTURE

< Sedan >

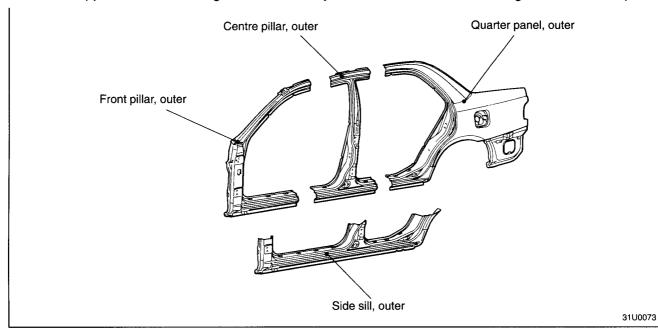
The door opening section is provided with panel positioning notches to improve workability when replacing panels.



SIDE OUTER PANEL

< Sedan >

Parts are supplied in the following cut forms in conjunction with the use of an integrated side outer panel.

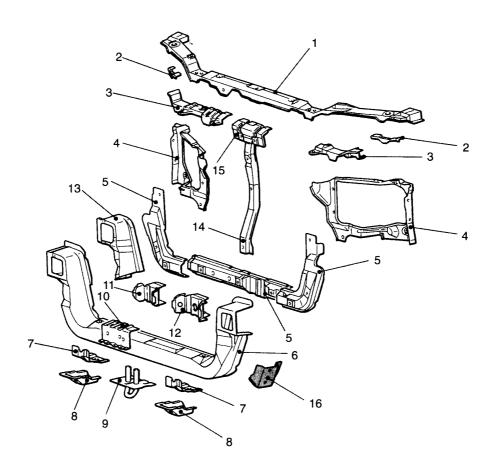


FRONT BODY

HEADLAMP SUPPORT

An intercooler stay bracket has been added to correspond to the addition of vehicles with diesel engine.

(DA4A)



- Front end upper bar
 Damper reinforcement
- 3. Radiator reinforcement, side
- 4. Headlamp support panel
- 5. Front end crossmember, inner
- 6. Front end crossmember, outer
- 7. Radiator bracket (A)
- 8. Radiator bracket (B)

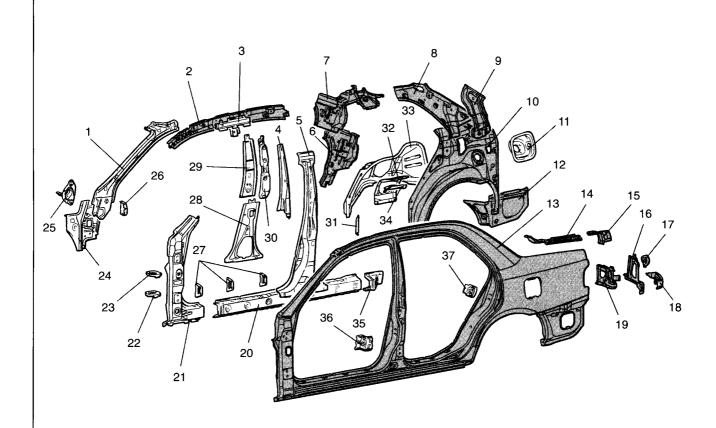
- 9. Towing hook10. Towing hook bracket, upper
- 11. Towing hook bulkhead12. Front end crossmember reinforcement
- 13. Front end reinforcement, side, right
- 14. Hood lock stay
- 15. Hood lock reinforcement
- 16. Intercooler stay bracket

SIDE BODY

SIDE STRUCTURE

< Sedan >

The following special parts have been established to correspond to the adoption of sedan bodies.



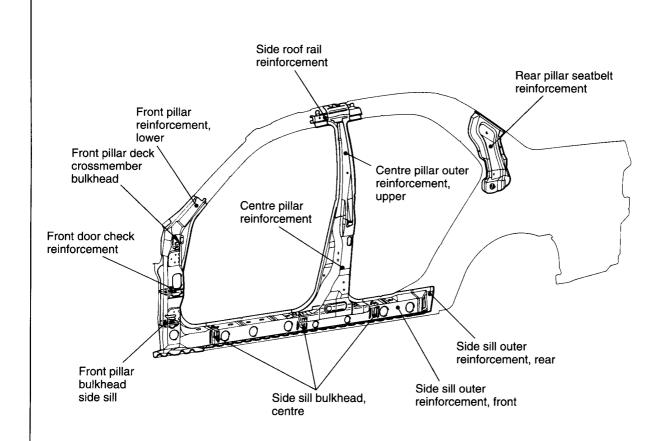
- 1. Front pillar, inner, upper
- 2. Side roof rail, inner
- 3. Side roof rail reinforcement
- 4. Centre pillar outer reinforcement, upper
- 5. Centre pillar reinforcement
- 6. Rear seatback brace
- 7. Rear shelf brace
- 8. Rear pillar, inner
- 9. Rear pillar seatbelt reinforcement
- 10. Quarter panel, inner
- 11. Fuel filler neck bracket
- 12. Rear floor side brace
- 13. Side panel, outer
- 14. Quarter outer extension, upper
- 15. Quarter outer extension, lower
- 16. Rear combination lamp housing
- 17. Rear combination lamp housing extension
- 18. Quarter corner panel, rear
- 19. Rear end inner panel, side
- 20. Side sill outer reinforcement, front

- 21. Front pillar reinforcement, lower
- 22. Front pillar bulkhead side sill
- 23. Front door check reinforcement
- 24. Front piller, inner, lower
- 25. Crossmember bracket
- 26. Front pillar deck crossmember, bulkhead
- 27. Side sill bulkhead, centre
- 28. Centre pillar, inner, lower
- 29. Centre pillar, inner, upper
- 30. Centre pillar seatbelt reinforcement
- 31. Side sill end plate
- 32. Spring house panel
- 33. Rear wheelhouse panel, inner
- 34. Spring house bracket
- 35. Side sill outer reinforcement, rear
- 36. Centre pillar striker reinforcement
- 37. Striker reinforcement

SIDE STRUCTURE REINFORCEMENTS

< Sedan >

- (1) A large reinforcement at the front pillar has increased joining rigidity at the side sill to improve the rigidity of the vehicle body.
- (2) A large reinforcement at the centre pillar has increased joining rigidity at the side roof rail and side sill to improve the rigidity of the vehicle body.
- (3) The side sill has a large cross-sectional area, and large reinforcements and bulkheads have improved the rigidity of the vehicle body and resistance in the event of a side impact.

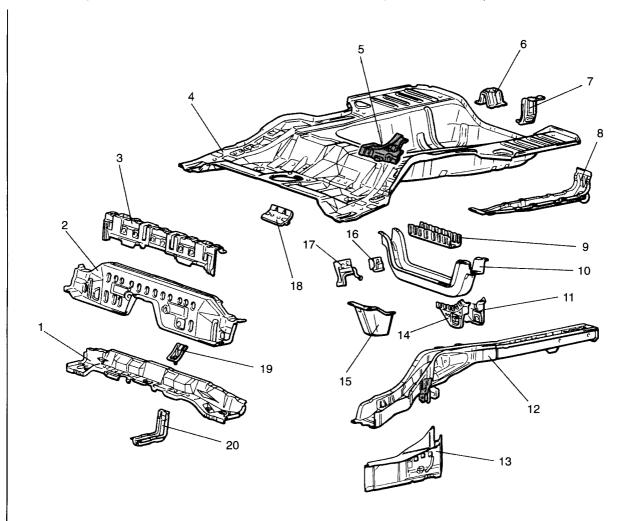


UNDER BODY

REAR FLOOR

< Sedan >

The following special parts have been established to correspond to the adoption of sedan bodies.



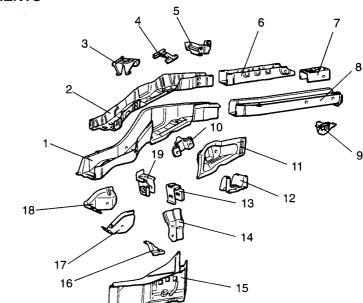
- 1. Rear seat crossmember
- 2. Rear floor extension
- 3. Rear seat crossmember, inner
- 4. Rear floor pan
- 5. Rear seatback reinforcement
- 6. Spare tire bracket
- 7. Jack bracket
- 8. Towing hook reinforcement
- 9. Rear floor crossmember reinforcement
- 10. Rear floor crossmember
- 11. Lower arm bracket, rear

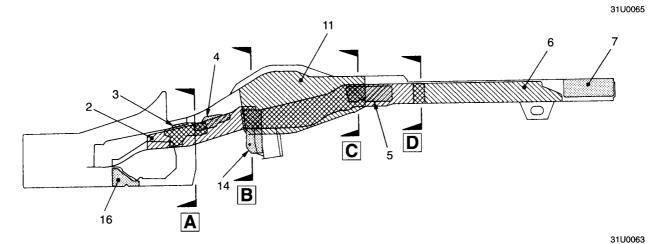
- 12. Rear floor sidemember
- 13. Rear floor side sill
- 14. Lower arm bracket, front
- 15. Fuel tank bracket, rear
- 16. Muffler hanger, centre, inner
- 17. Muffler hanger, centre
- 18. Rear floor seatbelt reinforcement
- 19. Fuel tank reinforcement, front
- 20. Front floor sidemember extension

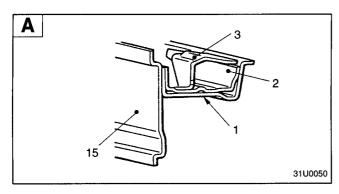
REAR FLOOR SIDEMEMBER REINFORCEMENTS

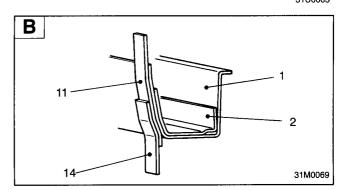
< Sedan >

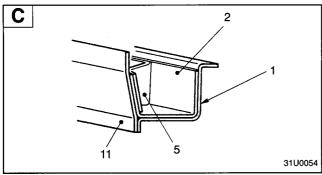
- 1. Rear floor sidemember
- 2. Rear floor sidemember reinforcement, front
- Rear floor seatbelt reinforcement, side
- 4. Seatback reinforcement, side
- 5. Rear floor sidemember bulkhead
- 6. Rear floor sidemember reinforcement, rear
- 7. Rear bumper stay reinforcement
- 8. Rear floor sidemember extension
- Shipping bracket
 Upper link bracket
- 11. Rear floor sidemember reinforcement
- 12. Rear floor crossmember extension13. Toe control link reinforcement
- 14. Toe control link reinforcement, side15. Rear floor side sill
- 16. Rear floor sidemember support
- 17. Trailing arm bracket, outer
- 18. Trailing arm bracket, inner
- 19. Toe control link bracket

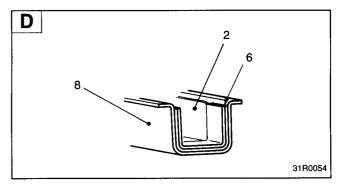








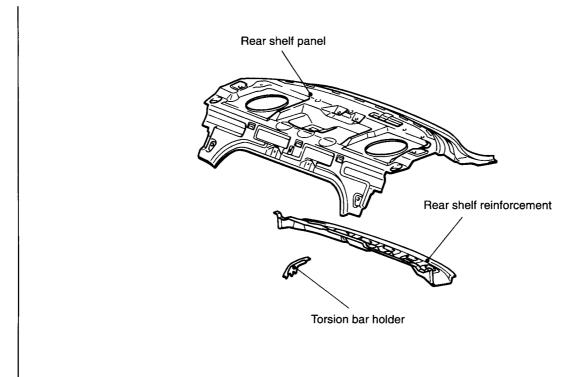




REAR BODY

REAR DECK

< Sedan >

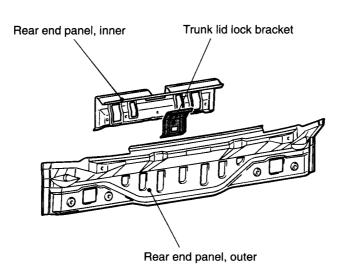


31U0066

REAR END PANEL

< Sedan >

A trunk lid lock bracket has been added to correspond to the adoption of sedan bodies.

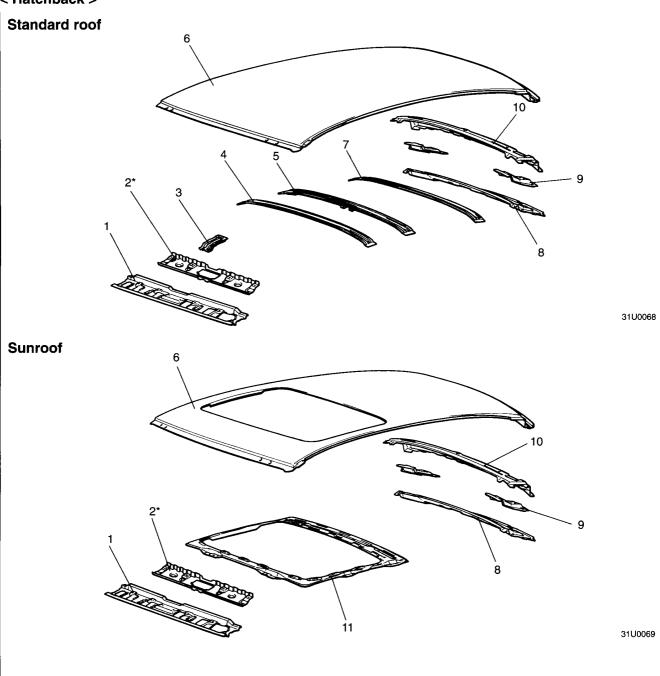


ROOF

ROOF PANEL

(1) A reinforcement has been added to the front roof rail to correspond to the addition of vehicles with diesel engine.

< Hatchback >



- 1. Front roof rail
- 2. Front roof rail reinforcement (Diesel-powered vehicles)
- 3. Map lamp bracket
- 4. Roof bow, front
- 5. Roof bow, centre

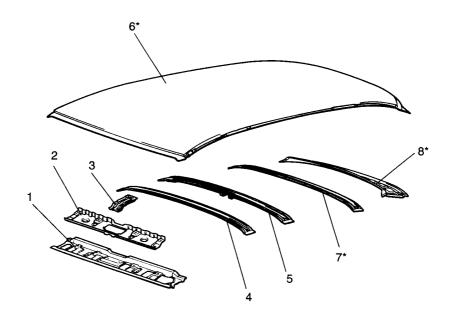
- 6. Roof panel
- 7. Roof bow, rear
- 8. Rear roof rail, inner
- 9. Rear roof rail hinge, reinforcement
- 10. Rear roof rail, outer
- 11. Roof panel reinforcement

The * mark indicates parts which have been added.

(2) The following special parts have been established to correspond to the adoption of sedan bodies.

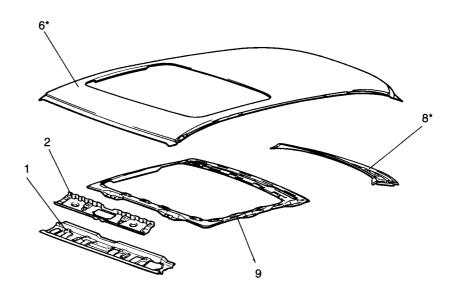
< Sedan >

Standard roof



31U0070

Sunroof



31U0071

- 1. Front roof rail
- Front roof rail reinforcement (Diesel-powered vehicles)
- 3. Map lamp bracket
- 4. Roof bow, front
- 5. Roof bow, centre

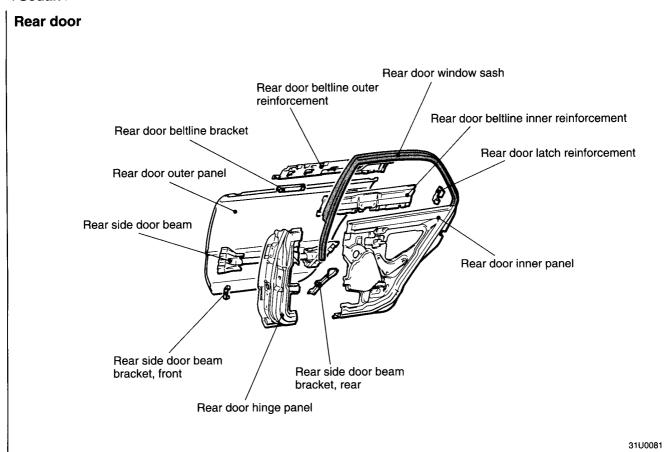
- 6. Roof panel
- 7. Roof bow, rear
- 8. Rear roof rail, inner
- 9. Roof panel reinforcement

Parts marked * are special parts for sedan only.

DOOR

The shape of the rear door window sash has been changed to correspond to the adoption of sedan bodies.

< Sedan >

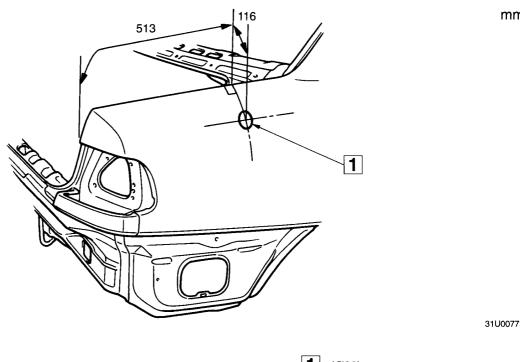


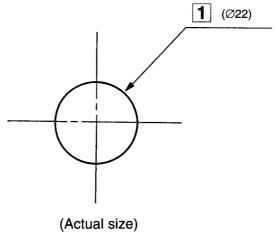
NOTES REGARDING PANEL REPLACEMENT

Some accessory parts are not equipped with holes for installation. When replacing such panels, make mounting holes to correspond to the installed parts.

QUARTER PANEL, OUTER (RIGHT SIDE)

< Sedan >





31U0053

mm

Illustration	Hole name	Hole shape – Size
31U0079	Motor antenna installation hole	○-22

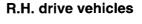
SILENCER APPLICATION LOCATIONS

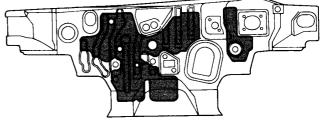
< Vehicles with diesel engine >

In order to reduce vibration and screen out heat from the exhaust gas, silencers (melting sheets) are applied to the top of the floor and to the passenger compartment side of the dash panel.

L.H. drive vehicles





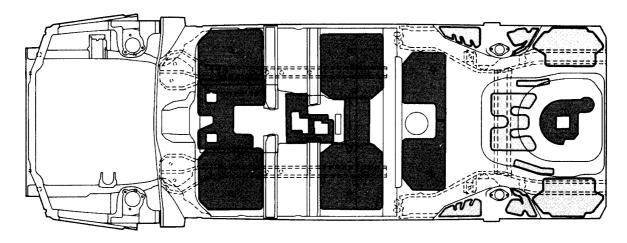


31U0040

31U0041

Dash panel (Interior side)

Dash panel (Interior side)

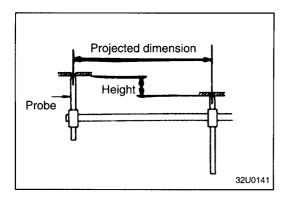


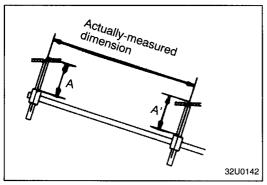
: 1.6 mm thick

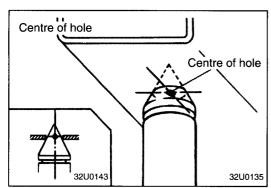
: 3.2 mm thick (two layers of 1.6 mm thick silencer.)

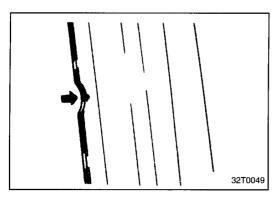
2 BODY DIMENSIONS

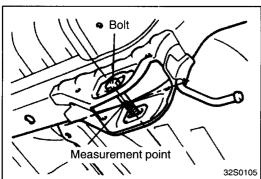
BODY DIMENSIONS AND MEASUREMENT METHODS	2- 2
< SEDAN >	
TYPE A (PROJECTED DIMENSIONS)	2- 3
UNDER BODY	2- 3
SUSPENSION INSTALLATION DIMENSIONS	2- 4
TYPE B	
(ACTUAL - MEASUREMENT DIMENSIONS)	2- 5
UNDER BODY	2- 5
SUSPENSION INSTALLATION DIMENSIONS	2- 6
FRONT BODY	2- 7
SIDE BODY	2- 8
REAR BODY	2- 9
INTERIOR	2-10











BODY DIMENSIONS AND MEASUREMENT METHODS

STANDARD DIMENSION INDICATIONS AND MEASUREMENT METHODS

- Type A (projected dimensions)
 Indicates the dimension when a measurement location is projected onto a plane. The difference in height of the measurement points should be taken into consideration when measuring.
- (2) Type B (actual-measurement dimensions) Indicates the actual distance between the measurement points. Measure using a tracking gauge or a measuring tape,

NOTES

- Make the lengths of the tracking gauge probes the same (A=A').
- Do not bend or twist the measuring tape.
- (3) Insert the tracking gauge probes securely into the measurement holes.
- (4) When the standard dimensions in the illustration are enclosed by □, this indicates that the symmetrical left and right positions have the same dimensions.
- (5) When using a notch for dimension measurement, make the measuring point at the centre of the notch.

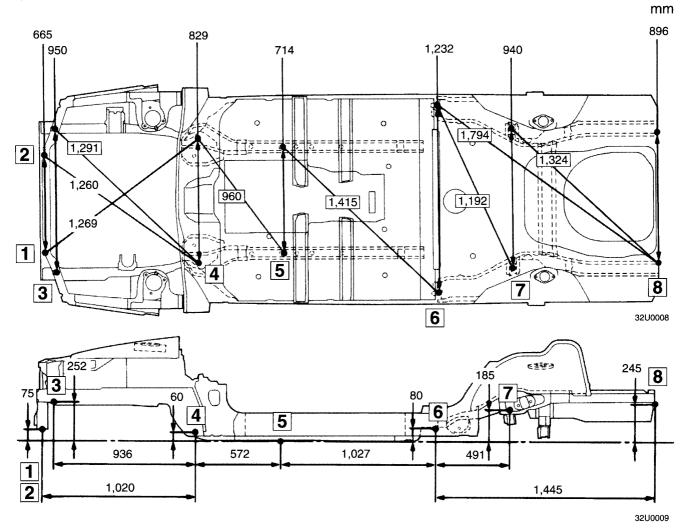
(6) When measuring the suspension mounting arm or the link mounting position, use the suspension mounting bolt as the measuring point.

BODY CENTRE POINT

The body centre points are shown for the purpose of checking the position of the left and right symmetry locations.

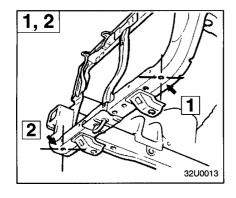
< SEDAN > TYPE A (PROJECTED DIMENSIONS)

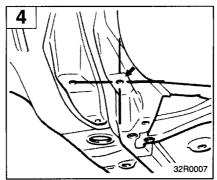
UNDER BODY

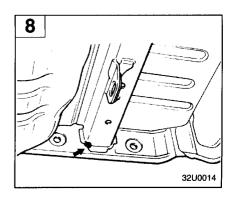


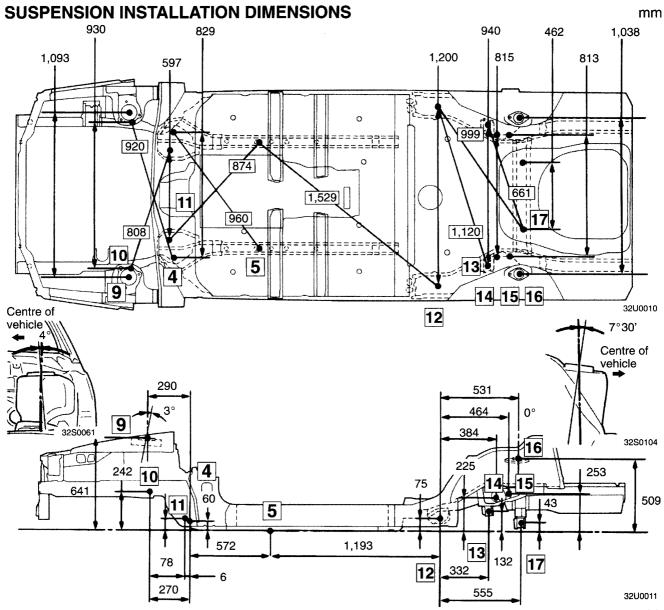
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
1	Centre of wax injection nozzle insertion hole	○ - 16 *5 Rear portion of front floor sidemember positioning hole		○ - 2 5	
2	Centre of front bumper mounting hole	○ – 13	*6	Rear portion of rear seat crossmember positioning hole	─ – 22 x 38
*3	Rear portion of front bumper stay mounting hole	○ - 30	7	Centre of rear floor sidemember drain hole	○-20
*4	Centre of suspension crossmember mounting hole	left ○ - 14 right○ - 18	8	Joint of rear floor sidemember extension and rear end panel outer	-

NOTE: The * mark indicates the mounting position for the frame centering gauge.

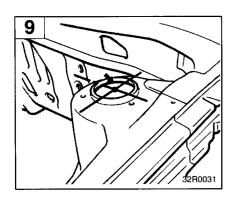


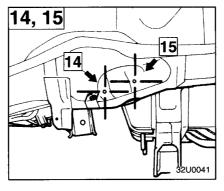


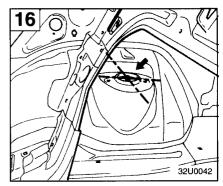




No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
9	Centre of strut insurator	O – 144	14	Centre of upper link mounting hole	O – 14
10	Centre of suspension crossmember mounting hole	○ – 15	15	Centre of upper link mounting hole	O-14
11	Centre of suspension crossmember mounting hole	○-16	16	Centre of rear shock absorber mounting hole	○ – 68
12	Trailing arm mounting position	_	17	Lower arm mounting position	
13	Control link mounting position	_			



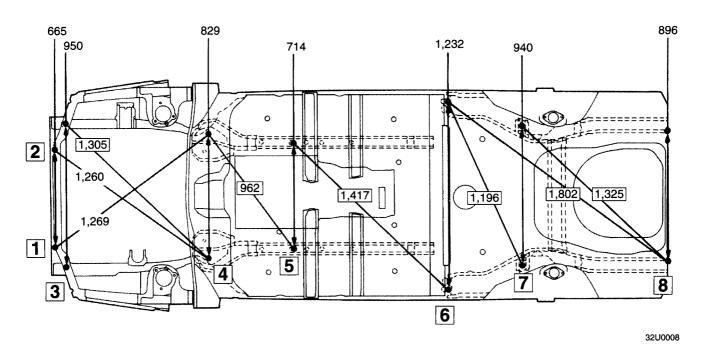




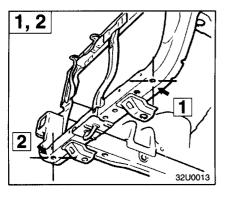
TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

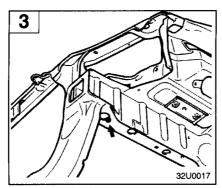
UNDER BODY

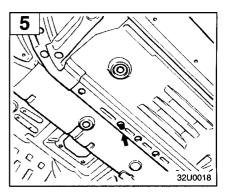
mm

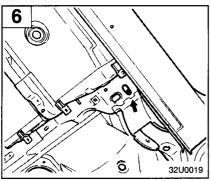


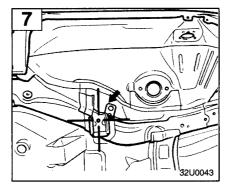
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
1	Centre of wax injection nozzle insertion hole	○-16	○ – 16		○ – 25
2	Centre of front bumper mounting hole	O - 13	6	Rear portion of rear seat crossmember positioning hole	─ – 22 x 38
3	Rear portion of front bumper stay mounting hole	○ – 30	7	Centre of rear floor sidemember drain hole	○-20
4	Centre of suspension crossmember mounting hole	left ○ - 14 right○ - 18	8	Joint of rear floor sidemember extension and rear end panel outer	-

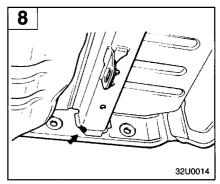






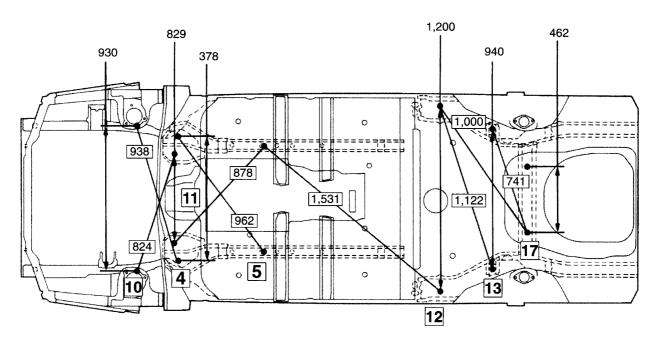




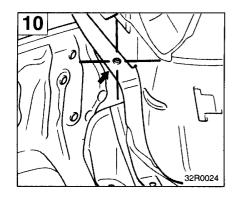


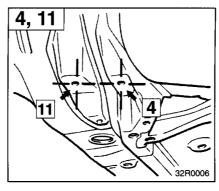
SUSPENSION INSTALLATION DIMENSIONS

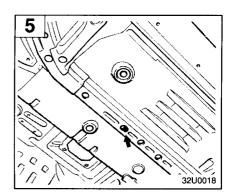
 mm

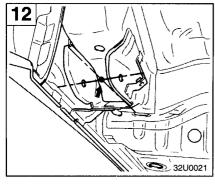


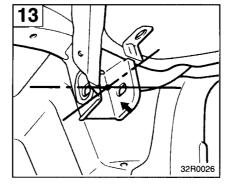
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
4	Centre of suspension crossmember mounting hole	left ○ - 14 right○ - 18	12	Trailing arm mounting position	_
5	Rear portion of front floor sidemember positioning hole	○ – 25	13	Control link mounting position	-
10	Centre of suspension crossmember mounting hole	○ – 15	17	Lower arm mounting position	_
11	Centre of suspension crossmember mounting hole	○ – 16			

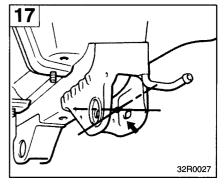


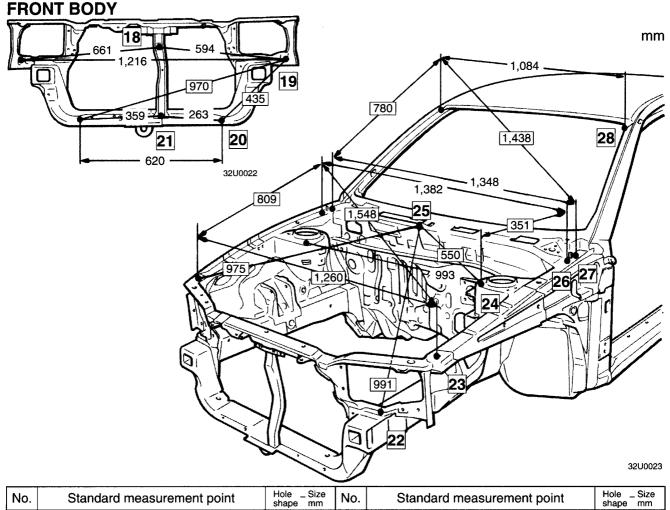




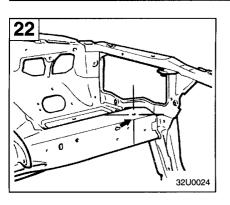






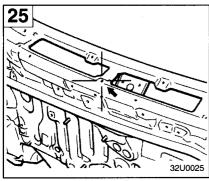


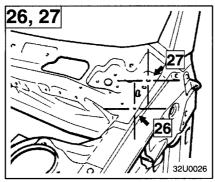
No.	Standard measurement point	Hole _ Size shape mm	No.
18	Centre of hood lock stay guide hole	○-7	20
19	Centre of headlamp support panel positioning	○-10	21

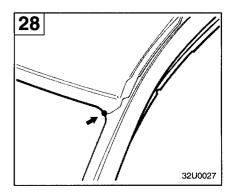


20	Centre of air guide panel mounting hole	○-7
21	Centre of air guide panel mounting hole	○-7
22	Centre of wiring harness clip mounting hole	○-7
23	Centre of front end upper bar positioning hole	○-5
24	24 Centre of front strut mounting hole	
25	Body centre point	O – 10
26	Centre of fender panel mounting hole	○-9
27	Centre of hood hinge mounting hole	○ – 12
28	Joint between side panel outer and roof panel	_

Standard measurement point

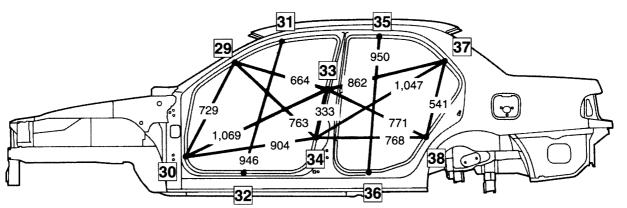




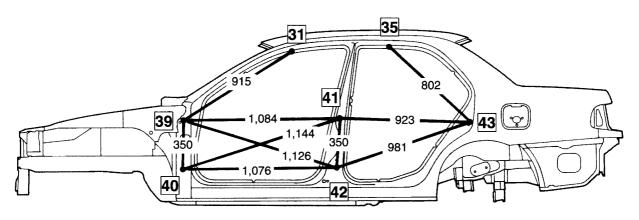


SIDE BODY

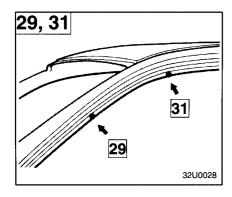
 mm

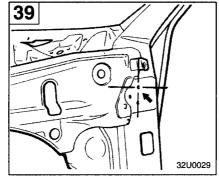


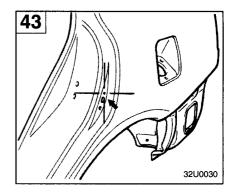
32U0051



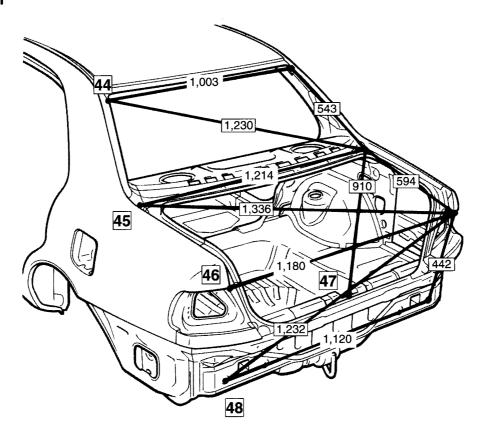
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
29	Front pillar positioning notch (Upper section)	_	37	Rear pillar positioning notch (Upper section)	-
30	Front pillar positioning notch (Lower section)	-	38	Rear pillar positioning notch (Lower section)	-
31	Side roof rail positioning notch (Front section)	-100	39	Centre of front door hinge mounting hole (Upper section)	○-10
32	Side sill positioning notch (Front section)		40	Centre of front door hinge mounting hole (Lower section)	○-10
33	Centre pillar positioning notch (Upper section)	_	41	Centre of rear door hinge mounting hole (Upper section)	○-10
34	Centre pillar positioning notch (Lower section)		42	Centre of rear door hinge mounting hole (Lower section)	○-10
35	Side roof rail positioning notch (Rear section)	_	43	Centre of rear door switch mounting hole	○-5
36	Side sill positioning notch (Rear section)	-			



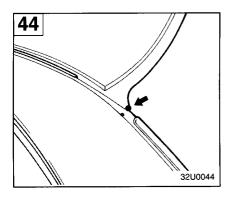


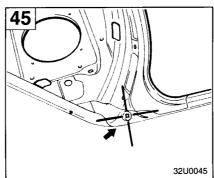


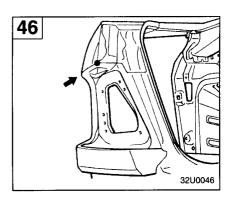
REAR BODY

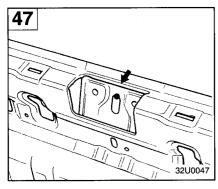


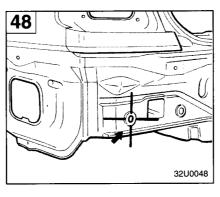
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
44	Joint between side panel outer and roof panel	_	47	Upper portion of water drain hole of trunk lid lock bulkhead	◯ – 25 x 12
45	Centre of rear window lower moulding mounting hole	□ - 8.5	48	Centre of rear end panel positioning hole	○ – 16
46	Side outer panel projection	_			







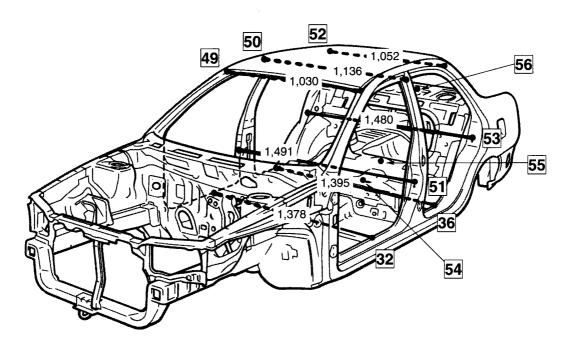




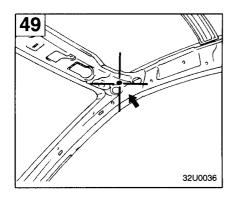
 $\,mm$

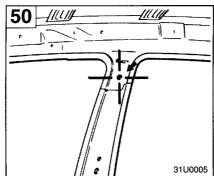
INTERIOR

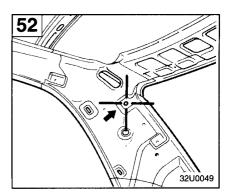
 mm

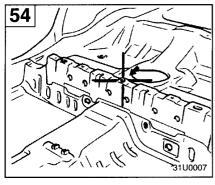


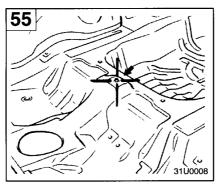
No.	Standard measurement point	Hole _ Size shape mm	No.	Standard measurement point	Hole _ Size shape mm
32	Side sill positioning notch (Front section)	_	52	Centre of rear pillar trim mounting hole	○-7
36	Side sill positioning notch (Rear section)	_	53	Centre of rear door striker mounting hole (Upper section)	○ - 14
49	Centre of harness clip attaching hole	O-7	54	Body centre point	○-10
50	Centre of adjustable shoulder belt anchor mounting hole	O – 16.5	55	Body centre point	-
51	Centre of front door striker mounting hole (Upper section)	○ – 15	56	Centre of child anchor mounting hole (Body centre point)	O – 11

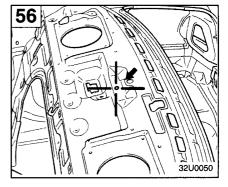








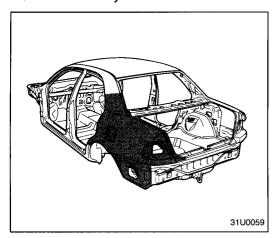




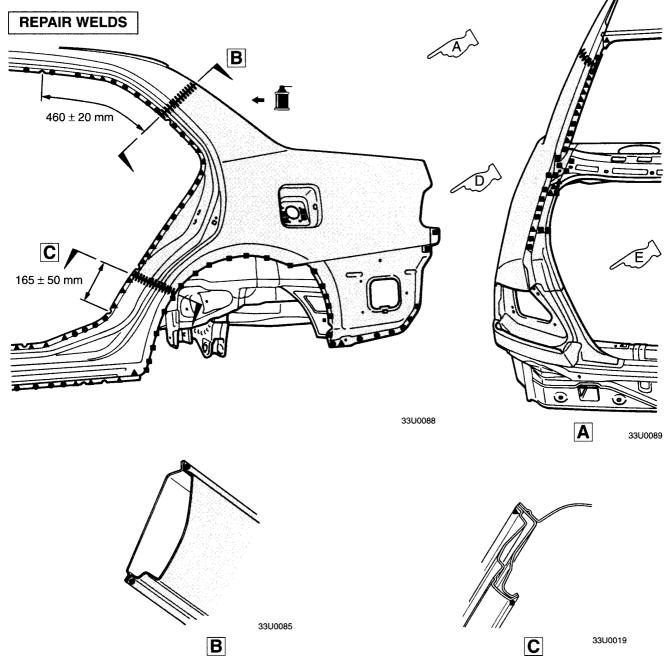
3 WELDED PANEL REPLACEMENT

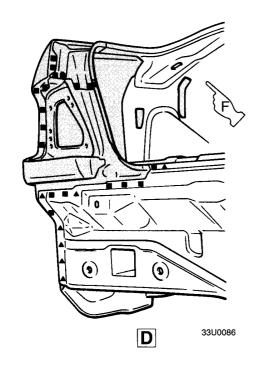
< SEUAN >	
QUARTER, OUTER	3-2
REAR FLOOR	3-4
REAR END PANEL	3-6
QUARTER, INNER	3-7
DOGE DANIE!	20

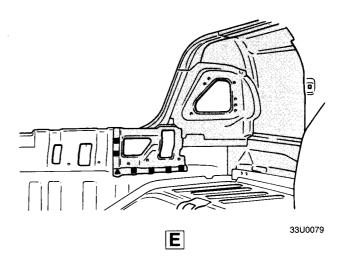
QUARTER, OUTER < Sedan >

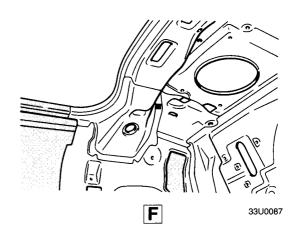


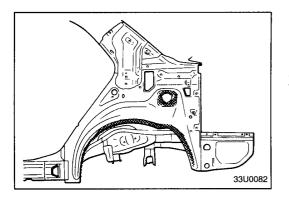
Symbol	Operation description
• • • •	Spot welding
== .	MIG plug welding ■ indicates two panels to be welded ▲ indicates three panels to be welded
+ + + +	MIG spot welding
+11111111111111111111111111111111111111	MIG arc welding (continuous)
000000000	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to buttwelded joints.)







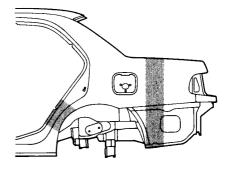




NOTES WITH REGARD TO REPAIR WORK INSTALLATION

Apply body sealant to the wheel arch and fuel filler neck on the body side.

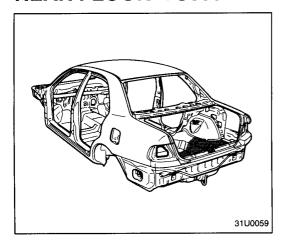
NOTE Depending on the size of the damaged area, parts can be replaced.





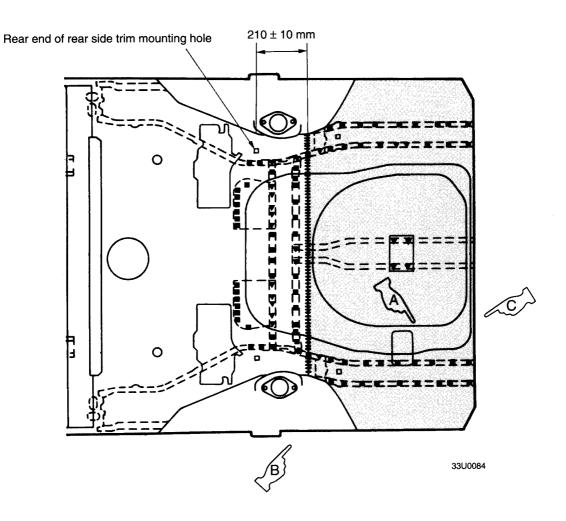
: Area that can be cut

REAR FLOOR < Sedan >

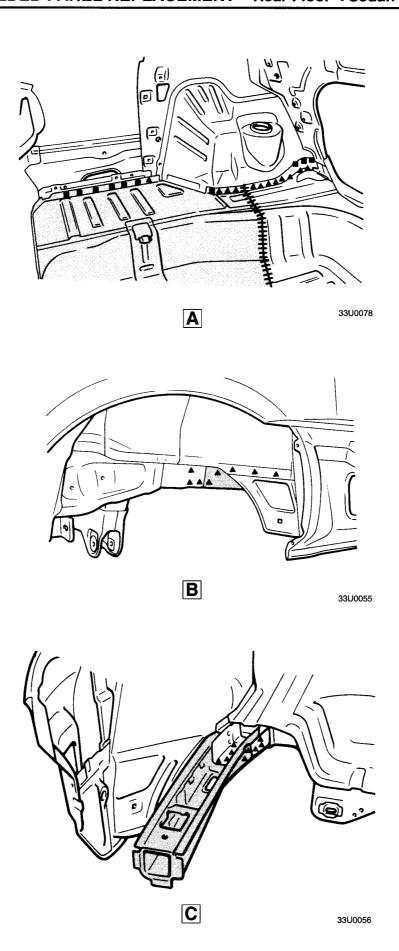


Symbol	Operation description
• • • •	Spot welding
	MIG plug welding ■ indicates two panels to be welded ▲ indicates three panels to be welded
+ + + +	MIG spot welding
-11111111111111111111111111111111111111	MIG arc welding (continuous)
000000000	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

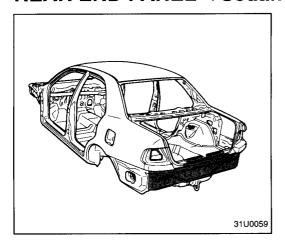
REPAIR WELDS



NOTE Refer to P. 3-6 for the rear end panel weld points.

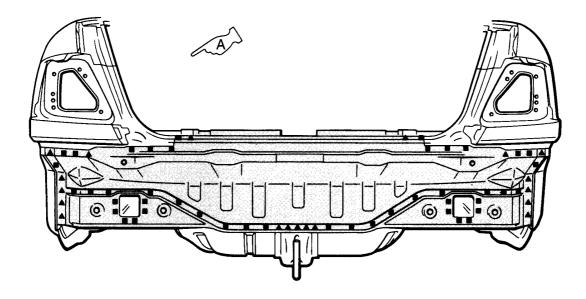


REAR END PANEL < Sedan >

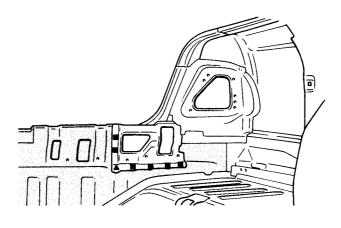


Symbol	Operation description
• • • •	Spot welding
	MIG plug welding ■ indicates two panels to be welded ▲ indicates three panels to be welded
++++	MIG spot welding
11111111111111111	MIG arc welding (continuous)
000000000	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS

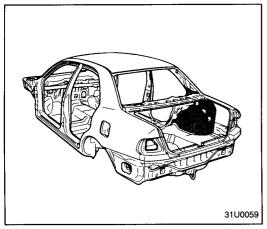


33U0077

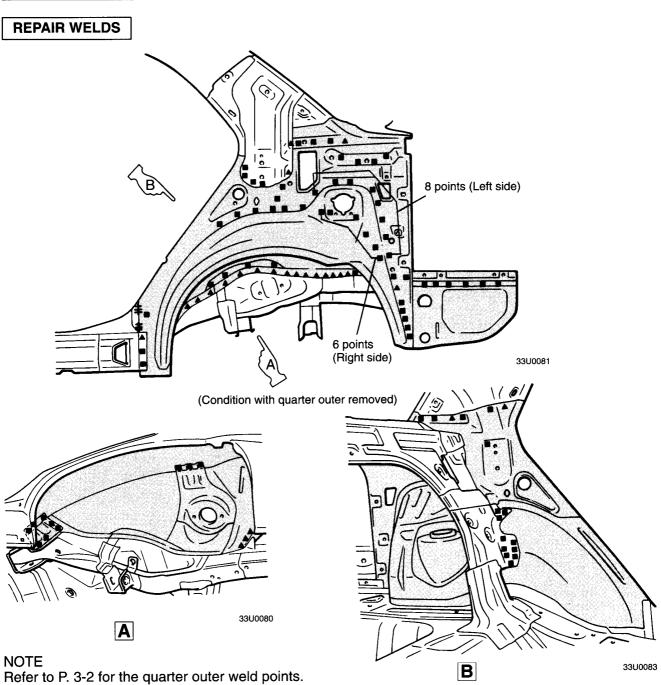




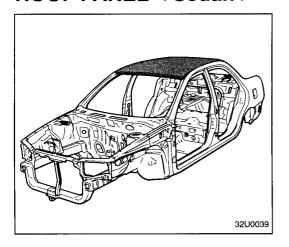
QUARTER, INNER < Sedan >



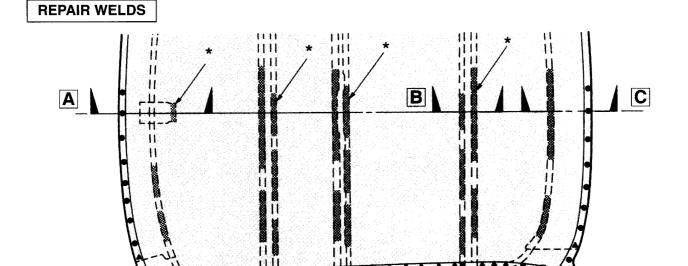
Symbol	Operation description
• • • •	Spot welding
	MIG plug welding ■ indicates two panels to be welded ▲ indicates three panels to be welded
++++	MIG spot welding
-11111111111111	MIG arc welding (continuous)
000000000	Braze welding
Í	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

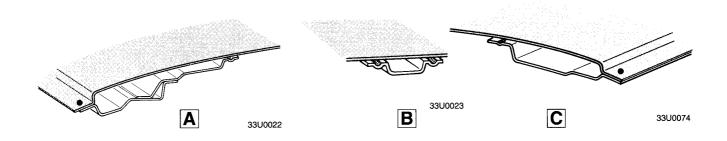


ROOF PANEL < Sedan >



Symbol	Operation description
• • • •	Spot welding
	MIG plug welding ■ indicates two panels to be welded ▲ indicates three panels to be welded
++++	MIG spot welding
+11111111111111111111111111111111111111	MIG arc welding (continuous)
00000000	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)





NOTE

*: Vehicles without sunroof

	:	Adh	esive
---------	---	-----	-------

Adhesive	Туре
	Chloroprene-base drying sealant

4 CORROSION PROTECTION

BODY SEALING LOCATIONS	
UPPER BODY	4-2
SIDE BODY	4-2

BODY SEALING LOCATIONS

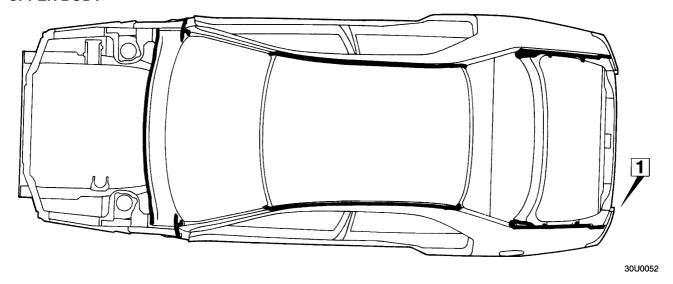
NOTES WITH REGARD TO REPAIR WORK

In places where the sealant can be directly seen on surfaces such as the drip rails, pillars or clinch, and where the appearance of the paint surface is important, apply sealant or wipe away sealant after application to make the amount of sealant even. Be careful not to cover the drain hole.

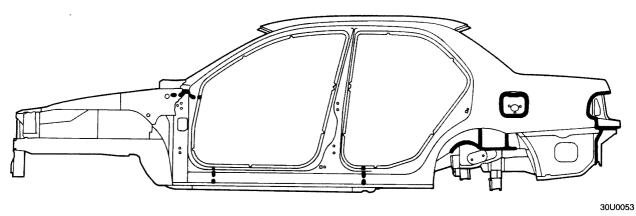
--- Places indicated by thick dotted lines indicate application locations on the underside of the vehicle.

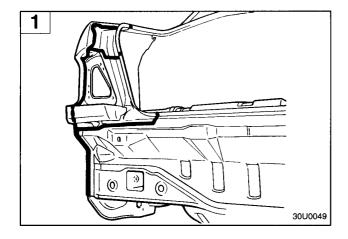
< Sedan >

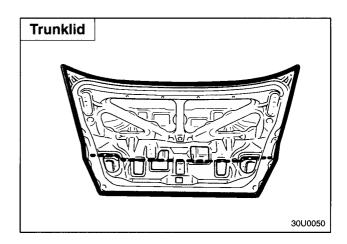
UPPER BODY



SIDE BODY







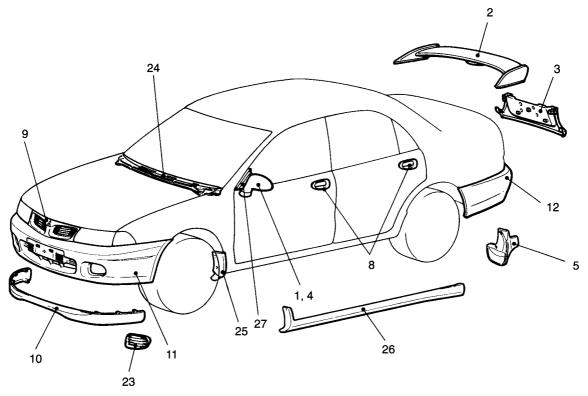
5 SYNTHETIC-RESIN PARTS

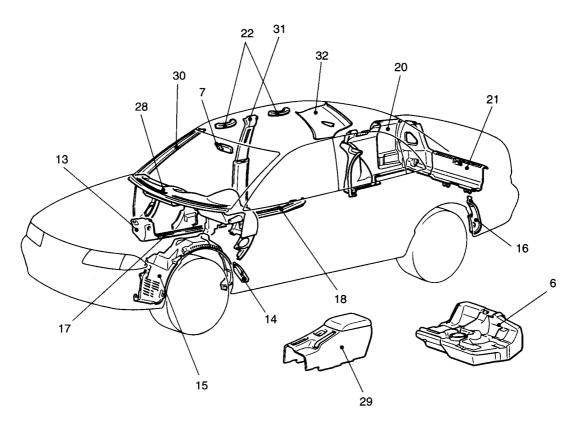
	LOCATION OF	SYNTHETIC-RESIN PARTS	5-2
--	--------------------	-----------------------	-----

LOCATION OF SYNTHETIC-RESIN PARTS

The location and material of each of the principal synthetic-resin parts are shown below:

< Sedan >





No.	Part name	Name of resin	Abbreviation	Heat-withstand temp. [°C]
1	Door mirror (colour)	Academitrile butadiane	ABS	80 – 110
2	Rear spoiler	Acrylonitrile butadiene styrene		
3	Rear panel garnish			
4	Door mirror (black)	Acrylonitrile styrene acrylate	ASA	80 – 100
5	Rear mud guard	Ethylen vinyl acetic acid	E/VAC (EVA)	60
6	Fuel tank	High-density polyethylene	PE-HD (HDPE)	70 – 90
7	Room mirror	Polyamide	PA	140 – 160
8	Door outside handle	Polycarbonate/ Polybutylene telephtalate	PC/PBT	140 – 150
9	Radiator grille			
10	Air dam skirt panel		PP	80 – 120
11	Front bumper face			
12	Rear bumper face			
13	Cowl side trim			
14	Foot rest			
15	Splash shield, front	Polypropylone		
16	Splash shield, rear	Polypropylene		
17	Front scuff plate			
18	Rear scuff plate			
19	Centre pillar trim, lower			
20	Trunk side trim			
21	Rear end trim			
22	Assist grip			
23	Fog lamp cover			
24	Front deck garnish		PP-TD	110 140
25	Stone guard			
26	Side air dam			
27	Delta cover	Tolo filled polygropyless		
28	Instrument pad	Talc filled polypropylene	(PP-F)	110 – 140
29	Floor console			
30	Front pillar trim			
31	Centre pillar trim, upper			
32	Rear pillar trim			

NOTES

- (1) The indicated heat-resistance temperature for parts which are composed of two or more types of material is the value for the material with the lowest heat-resistance temperature.
- (2) To correspond to the standardization of material symbols by the ISO, old symbols in brackets () are listed alongside new symbols in cases where the two are different.
- (3) The material symbols for synthetic resin parts are embossed on the parts in hidden places.
- (4) A slash (/) in the material symbol indicates that two different materials make 2-layer construction. A plus sign (+) indicates that the two different materials mix each other.

6 BODY COLOUR

BODY COLOUR CHARTS		6-2
---------------------------	--	-----

BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

< Sedan >

Paint used by manufacturer	Colour	Body colour code	Colour number	Body colour name	Composition of film
	DARK GRAY	A47	AC11147	Mainz Gray	Pearl
	WARM SILVER	A49	AC11149	Luzern Silver	Metallic
	PURE SILVER	A50	AC11150	Haag Silver	Metallic
	BLUE	T44	AC11144	Oslo Blue	Solid
	BROWN	C54	AC11154	Delphi Brown	Metallic
	GREEN	G42	AC11142	Derby Green	Solid
	GREEN	G48	AC11148	Leman Green	Pearl
	OLIVE	L45	AC11145	Malaga Olive	Pearl
	WHITE	W41	AC11141	St. Moritz White	Solid
	RED	R43	AC11143	Shining Red	Solid
	FLAME RED	R51	AC11151	Flame Red	Pearl

7 WIRING AND PIPING DIAGRAM

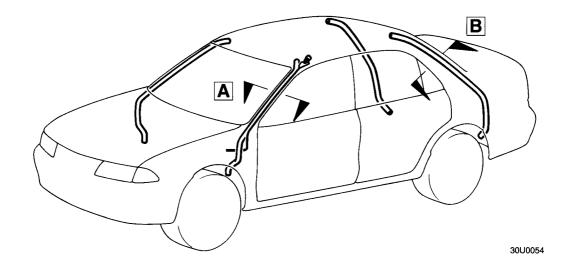
WIRING AND PIPING DIAGRAM 7-	WIRING AND	PIPING DIAGRAM		7-	2
------------------------------	------------	----------------	--	----	---

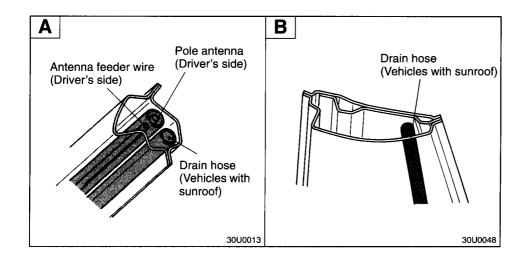


WIRING AND PIPING DIAGRAM

There are hoses routed through closed cross-section structures in some areas of the body; before cutting a panel in any of these areas, be sure to remove the hoses.

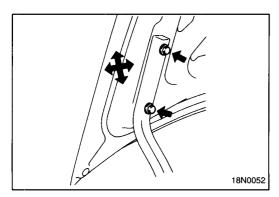
< Sedan >

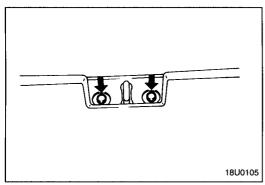




8 REFERENCE MATERIAL

BOLTED PANEL FIT AND ADJUSTMENT	8-2
TRUNK LID	8-2





BOLTED PANEL FIT AND ADJUSTMENT

< Sedan >

TRUNK LID

ADJUSTMENT OF TRUNK LID FIT

- (1) If the clearance between the trunk lid and the body is not uniform, loosen the trunk lid mounting bolts and move the trunk lid to adjust so that the clearance around the trunk lid is uniform.
- (2) If the floating, locking and unlocking of the trunk lid are heavy, check the condition of the release cable, and then loosen the trunk lid striker mounting bolts and move the trunk lid striker to adjust the meshing with the trunk lid latch.