

## GROUP 00

# GENERAL

## CONTENTS

<b>HOW TO USE THIS MANUAL . . . . .</b>	<b>00-2</b>	SERVICE BRAKE . . . . .	00-11
<b>TARGETS OF DEVELOPMENT . . . .</b>	<b>00-2</b>	SUSPENSION . . . . .	00-12
<b>PRODUCT FEATURES . . . . .</b>	<b>00-3</b>	ACTIVE SAFETY . . . . .	00-14
<b>TECHNICAL FEATURES . . . . .</b>	<b>00-4</b>	PASSIVE SAFETY . . . . .	00-17
EXTERIOR . . . . .	00-4	EQUIPMENTS . . . . .	00-19
INTERIOR . . . . .	00-6	ENVIRONMENTAL PROTECTION . . . . .	00-20
ENGINE . . . . .	00-8	SERVICEABILITY AND RELIABILITY . . . .	00-20
TRANSMISSION . . . . .	00-9	<b>VEHICLE IDENTIFICATION . . . . .</b>	<b>00-21</b>
		<b>MAJOR SPECIFICATIONS . . . . .</b>	<b>00-23</b>

## HOW TO USE THIS MANUAL

M2000029000231

### MODEL INDICATIONS

The following abbreviations are used in this manual for identification of model types.

2400:Indicates an engine with the 2,378mL <4G69> petrol engine.

MPI:Indicates the multipoint fuel injection.

SOHC:Indicates an engine with the single overhead camshaft.

MIVEC:Indicates the Mitsubishi innovative valve timing and lift electronic control system

M/T:Indicates the manual transmission.

A/T:Indicates the automatic transmission.

A/C:Indicates the air conditioner.

## TARGETS OF DEVELOPMENT

M2000004000320

- Establish new-MITSUBISHI brand.
- Express the new value departing from the conventional sedan hierarchy.
- Motivate the customer desire to own this car regardless of genres.
- Demonstrate the new styling philosophy of MITSUBISHI.
- Create the MITSUBISHI original styling respecting Japanese sensitivity.
- Mitsubishi Motors Corporation will launch the full size multipurpose vehicle, new "GRANDIS", as "SPACE WAGON" successor, into other market.
- Since this market is expected a stable growth in the future, introduce "GRANDIS" to secure the advantages in its segment.
- In terms of profit, in order to accomplish a successful "turnaround", "GRANDIS" plays a role as the important model at the passenger car business.

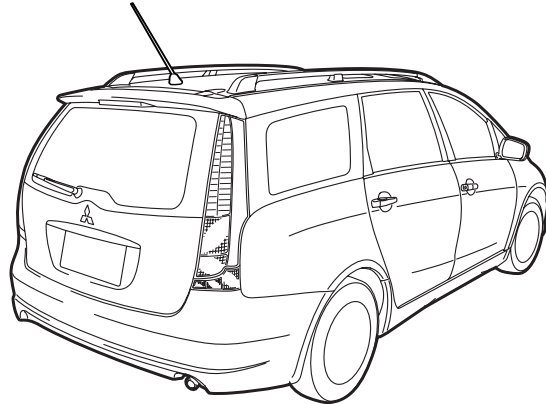
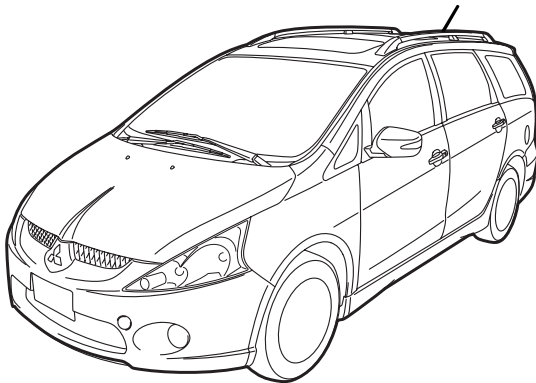
## PRODUCT FEATURES

M2000005000152

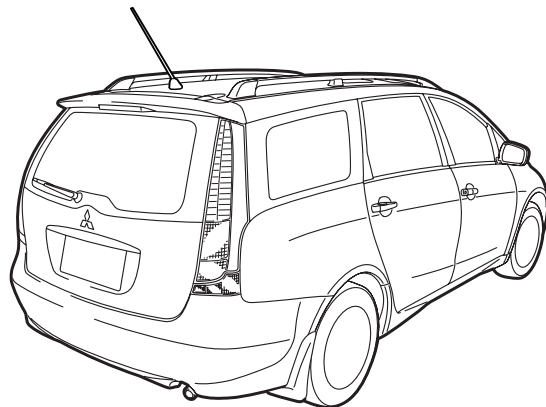
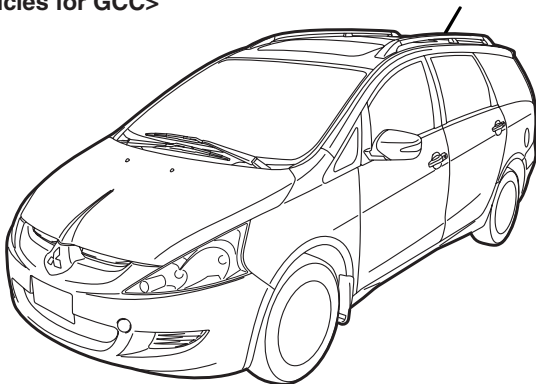
### EMOTIONAL DESIGN

SPORTY ELEGANCE: The Shape with human-touch and emotion. The styling appeals to sensitivity.

<Except vehicles for GCC>



<Vehicles for GCC>



AC312644AB

- "Formative beauty by lights and shadow"  
One-motion-styling is wrapped by fine and delicate body line.
- "Healing living space", combined relaxing roominess with functional stylish equipment.
- "Attractive illumination" by lamps and lights to produce a premium and luxury feel.

- Warm human-touch lines pursue an emotional shape appealing to sensitivity.
- The new front face respecting the three-diamond mark promotes entire styling.
- Delicate and high-quality surface by craftsmanship, and detail-conscious styling.
- Establishment of a styling position holding the line against competitors in minivan market.

### SMART PERFORMANCE

- Comfortable and user-friendly interior and cargo space and new ideal seat utilities.
- Newly developed 2.4L MIVEC engine realizes a top in the class performance, fuel economy, and eco-friendliness.
- Outstanding safety and reliable performance for protecting important family.

- Dimensions are extended by +75 mm for total leg room and by +100 mm for total interior length comparing to the previous SPACE WAGON to realize more spaciousness.
- Minimum turning radius, 5.5 m <with 16-inch wheel> (5.8 m <with 17-inch wheel>), is the same as the previous model.

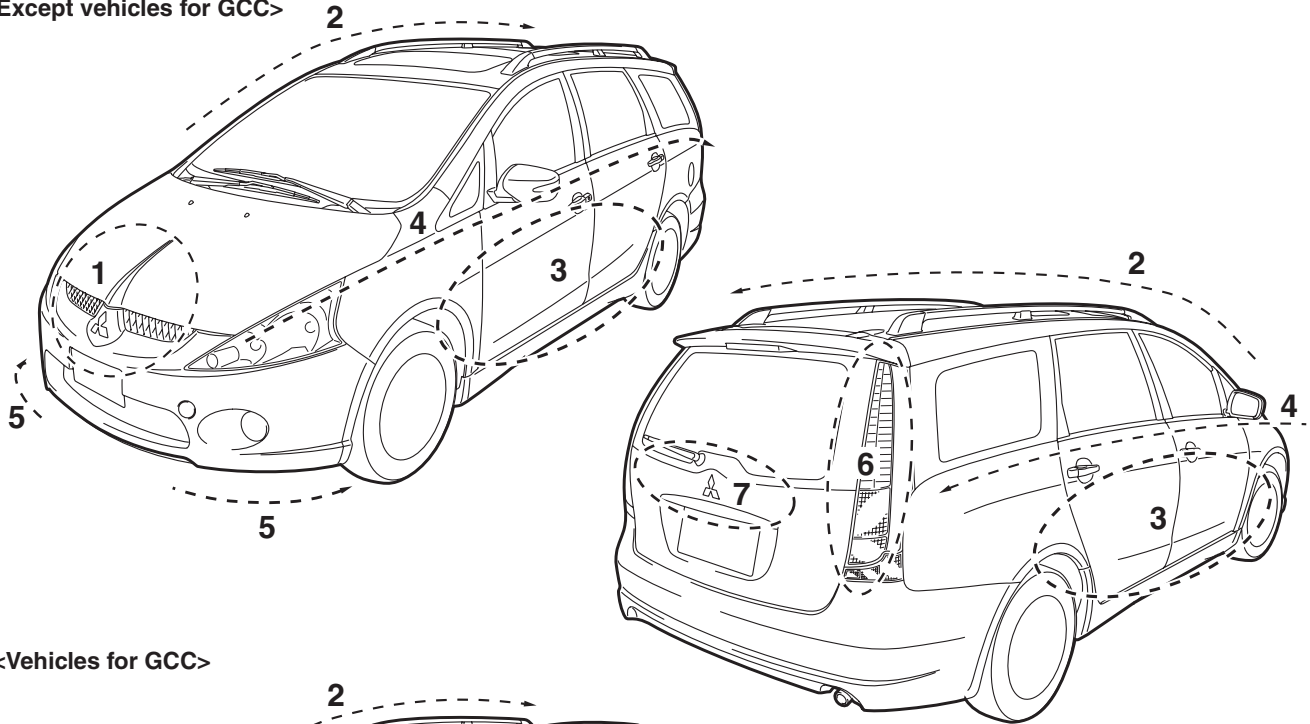
# TECHNICAL FEATURES

## EXTERIOR

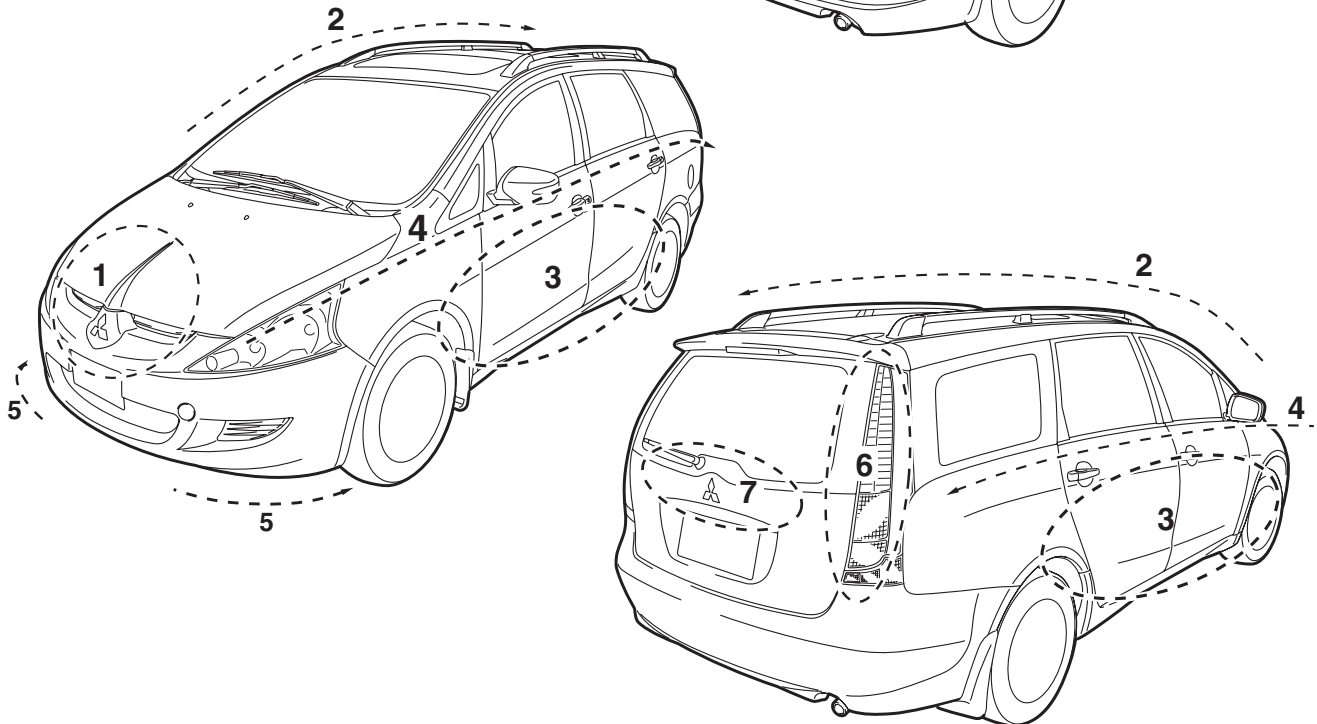
### Design features

M2000017000579

&lt;Except vehicles for GCC&gt;



&lt;Vehicles for GCC&gt;



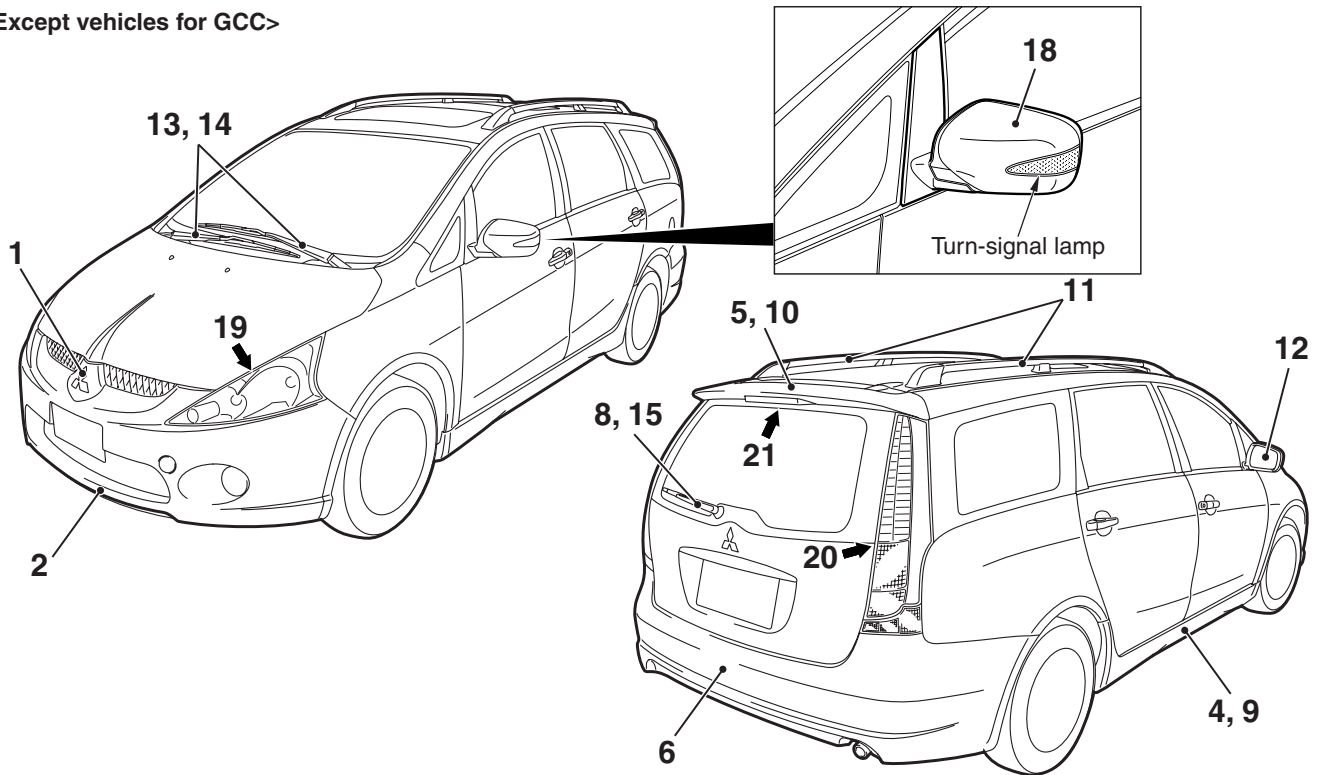
AC312609AB

1. <New identity face>: Every shape-making starts from the three-diamond mark.
2. <Sporty and elegant shape>: With warm and human-touch lines.
3. <New sensitive surface>: Shows craftsmanship and delicate expression by lights.
4. <Emotional and dynamic line>: From grille through belt line to rear combination lamp.
5. <Wide and stable stance>: Trimmed corners and tyres present the overall width.
6. <Clean graphic>: Creates continuity and a new image with the integrated rear combination lamp.

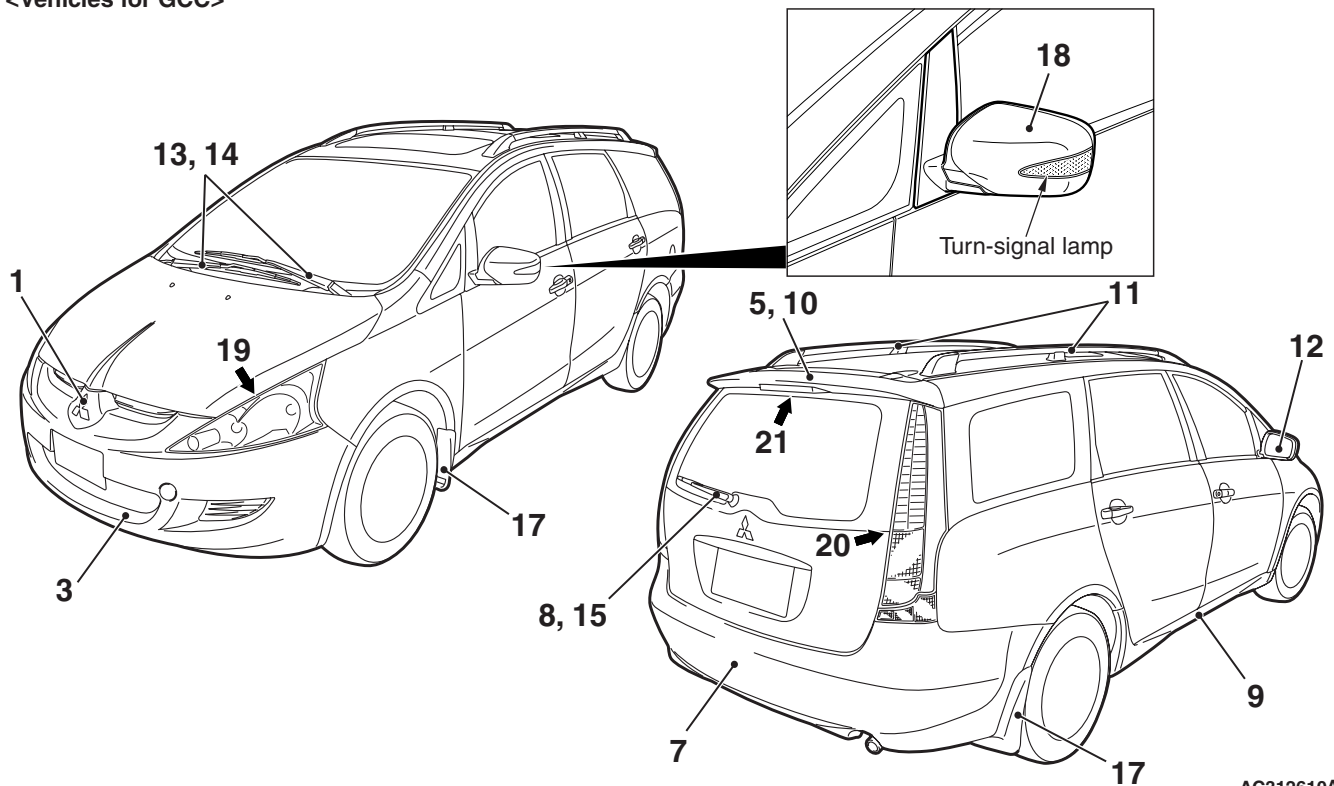
7. <W-Line style>: New characteristic graphic with a three-diamond mark in the centre.

## STYLING FEATURE

<Except vehicles for GCC>



<Vehicles for GCC>



**<Appearance>**

1. A new three-diamond mark matched with new front design is adopted.
2. Employs a grille integrated sport front bumper.
3. Employs a grille integrated standard front bumper. <Vehicles for GCC>
4. Large side sill garnishes have been installed. <Except vehicles for GCC>
5. A tailgate spoiler has been installed.
6. A sport rear bumper has been installed. <Except vehicles for GCC>
7. A standard rear bumper has been installed. <Vehicles for GCC>
8. A rear wiper with resin arm has been adopted.

**<Aerodynamic characteristics>**

9. Side sill garnishes have been installed.
10. A tailgate spoiler has been installed.

**<User-friendliness>**

11. Roof rails have been installed for optional.
12. Electric retractable remote controlled door mirrors have been installed.

**<Product package>**

13. A face-to-face type windshield wiper has been adopted.
14. Comes with a vehicle speed sensitive intermittent time variable windshield wiper.
15. Comes with an initial continuous operation and reverse interlocked operating rear intermittent wiper.
16. Comes with front mud guards for optional. <Vehicles for GCC>
17. Comes with rear mud guards for optional. <Vehicles for GCC>
18. Employs side turn-signal lamp integrated door mirrors.

**<Exterior lamps>**

19. The large four headlamps with the lightweight resin lenses have been adopted.
20. The Light emitting diode (LED) type tail/stop lamps have been adopted for less power consumption and illumination speed improvement.
21. The high-mounted stop lamp has been installed on the tailgate for all models.

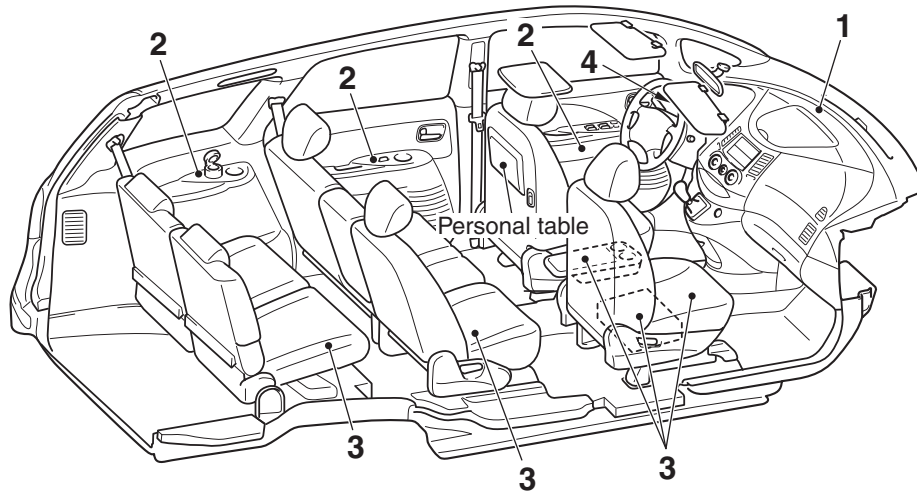
**INTERIOR****DESIGN FEATURES**

- The new space with an open cafe's bright atmosphere and a private jet's flexible function.
- The heeling comfort in the space of hospitality for individuals and in the shape of secured feeling being wrapped around.

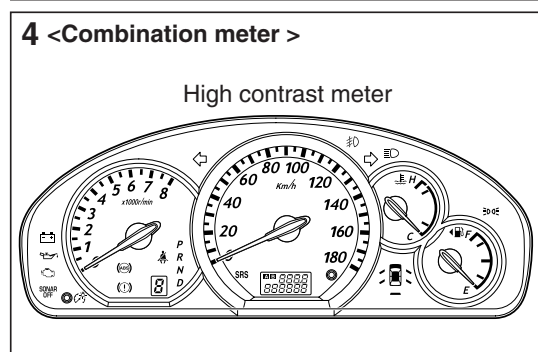
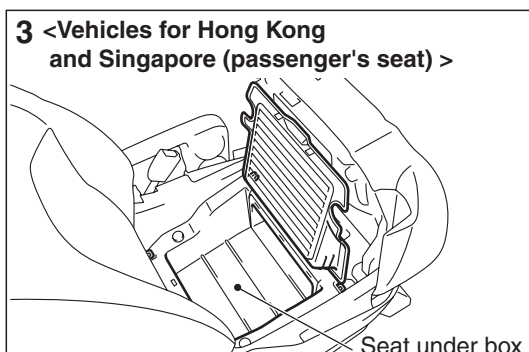
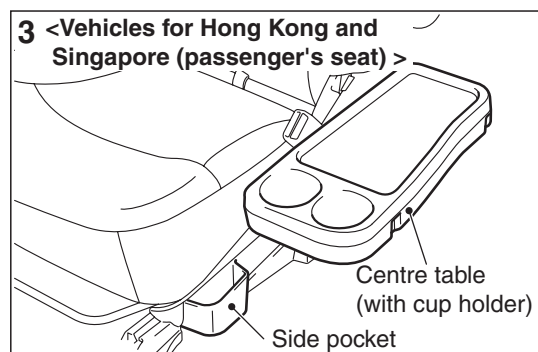
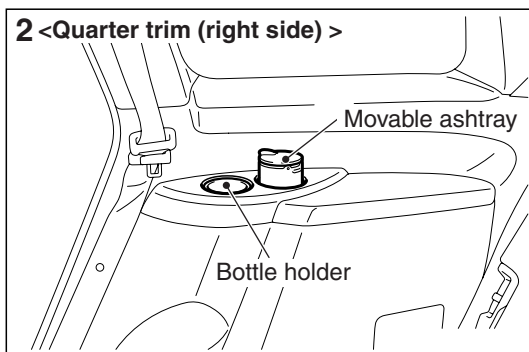
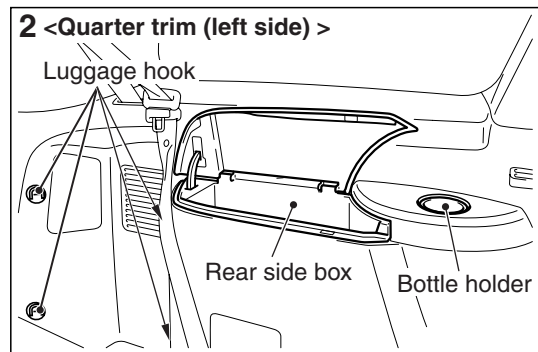
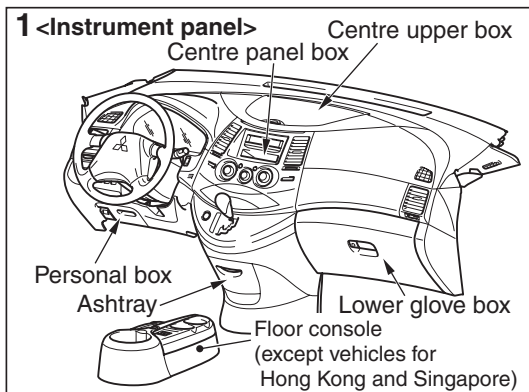
M2000018000505

- The texture blended in the premium of modern living room rather than saloon.
- The establishment of a styling position holding the line against competitors in mini van market.

## Interior feature



AC312719AB



### 1. Instrument panel

- Two-tone interior
- Large-size glove box with key cylinder
- Centre panel box, accessory box

- Flocked fabric in the large-size instrument panel upper box and the lower glove box
- Push style card holder <R.H. drive vehicles>
- Ashtray

**2. Door trim and quarter trim**

- Door pocket (front door trim, rear door trim)
- Rear side box (left side of lower quarter trim)
- Upholstered door trim
- Full interior trim
- Bottle holder, cup holder
- Movable ashtray

**3. Seats and seat belts**

- Seat height adjustment (driver's seat)
- Rear collision protection front seat
- Headrest tilt adjustment (front seat) <Vehicles for Australia and New Zealand>
- Headrest with height adjustment (front seat, second seat, third seat)
- Arm rest (front seat, second seat)
- Centre table (passenger's seat) <Vehicles for Hong Kong and Singapore>
- Seat under box (passenger's seat) <Vehicles for Hong Kong and Singapore>
- Flip-up and angle adjustment of seat cushion (second seat)
- Underfloor storage type separate seat (third seat)
- Seatback pocket of driver's seat <Vehicles for Hong Kong, Singapore, Australia and New Zealand>
- Seatback pocket of passenger's seat
- Personal table <Vehicles for Hong Kong, Singapore, Australia and New Zealand>

- Convenience hook (driver's side) <Vehicles for Hong Kong and Singapore>
- ISO-FIX child seat fixing bar (second seat) <Vehicles for Hong Kong and Singapore>
- Front seat belt with force limiter mechanism
- One-touch adjustable seat belt anchor (front seat belt)
- Three-point front seat belt with emergency locking retractor (ELR)
- Emergency locking retractor (ELR) three-point seat belt/child seat fastening mechanism automatic locking retractor (ALR) switching seat belt (second, third seats)

**4. Combination meter**

- The high contrast meter with light emitting diode (LED) as a lighting source
- 3-steps illumination
- Formed meter panel made of acrylic with a plated ring

**Others**

- Floor carpet with heel stopper structure has been adopted. <Except vehicles for Hong Kong and Singapore>
- 1-DIN size (with a special panel) radio/CD player is adopted. <Vehicles for Australia and New Zealand>
- 4-speaker or 6-speaker are available.

**ENGINE**

New developed 4G69-MPI MIVEC engine is used which realizes clean emissions, high power and low fuel consumption, all at very high levels.

M2000020000397

Item		Specification
Total displacement mL		2,378
Bore × Stroke mm		87.0 × 100.0
Compression ratio		9.5
Combustion chamber		Pentroof type
Camshaft arrangement		SOHC
Valve timing	Intake Open	0° BTDC <Low speed cam A>
		2° BTDC <Low speed cam B>
		20° BTDC <High speed cam>
	Intake Close	46° ABDC <Low speed cam A>
		48° ABDC <Low speed cam B>
		72° ABDC <High speed cam>
	Exhaust Open	54° BBDC
	Exhaust Close	21° ATDC



Item		Specification
Maximum output	EEC-NET kW/rpm	121/6,000
	SAE-GROSS HP/rpm	178/6,000
Maximum torque	EEC-NET N·m/rpm	217/4,000
	SAE-GROSS kgf·m/rpm	23.5/4,000
Fuel system		Electronically controlled multipoint fuel injection
Ignition system		Electronic-controlled 4-coil

## TRANSMISSION

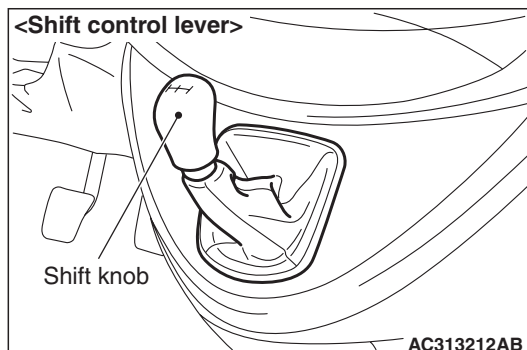
M2000021000390

### MANUAL TRANSMISSION

- The F5M42 manual transmission is installed.
- Increased rigidity yields an improved shift feeling.

Item		Specification
Transmission model		F5M42
Transmission type		5-speed forward, 1-speed reverse constant mesh
Transmission gear ratio	1st	3.583
	2nd	1.947
	3rd	1.266
	4th	0.970
	5th	0.767
	Reverse	3.363
Final reduction ratio (Differential gear ratio)		4.312
Speedometer gear ratio		27/36

### Transmission control



A shift lever of an instrument panel type has been adopted in order to facilitate walkthrough between the seats.

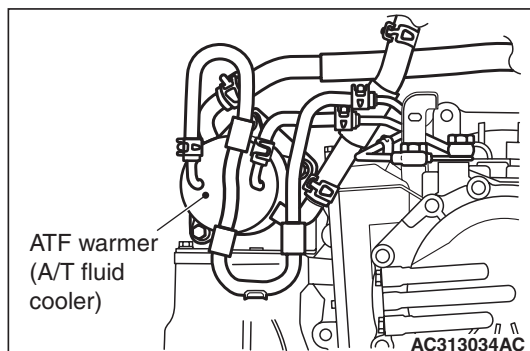
### AUTOMATIC TRANSMISSION

- The F4A4B automatic transmission is installed.
- For optimally easy driving, this system employs Mitsubishi Intelligent and Innovative Vehicles Electronic Control System-II (INVECS-II).

Item		Specification
Transmission model		F4A4B
Torque converter	Type	3-element, 1-stage, 2-phase type
	Lock-up	Provided
	Stall torque ratio	2.01
Transmission type		4 forward speeds, 1 reverse speed, fully automatic

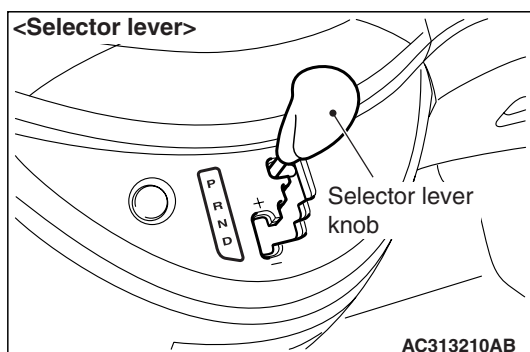
Item		Specification
Transmission gear ratio	1st	2.842
	2nd	1.529
	3rd	1.000
	4th	0.712
	Reverse	2.480
Final drive ratio		4.406
Clutch		Multi-disc type (3 sets)
Brake		Multi-disc type (2 sets)
Manual control system		P-R-N-D (4 positions) + sport mode
Shift pattern control		Electronic control (INVECS-II)
Hydraulic control during shifting		Electronic control (Each clutch hydraulically independently controlled)
Lock-up clutch control		Electronic control

### ATF WARMER (A/T FLUID COOLER) <VEHICLES FOR HONG KONG AND SINGAPORE>



ATF warmer (A/T fluid cooler) has been adopted. It substitutes for the A/T fluid cooler installed in the radiator lower tank of the conventional A/T models. At the start of running, the temperature of the engine coolant rises earlier than that of the A/T fluid. The ATF warmer utilizes this characteristics to raise the A/T fluid temperature as early as possible to an appropriate level (70 - 80 degrees), reducing the loss of A/T operation efficiency. After the A/T fluid temperature has reached appropriate level, the ATF warmer stabilizes the A/T fluid temperature.

### Transmission control



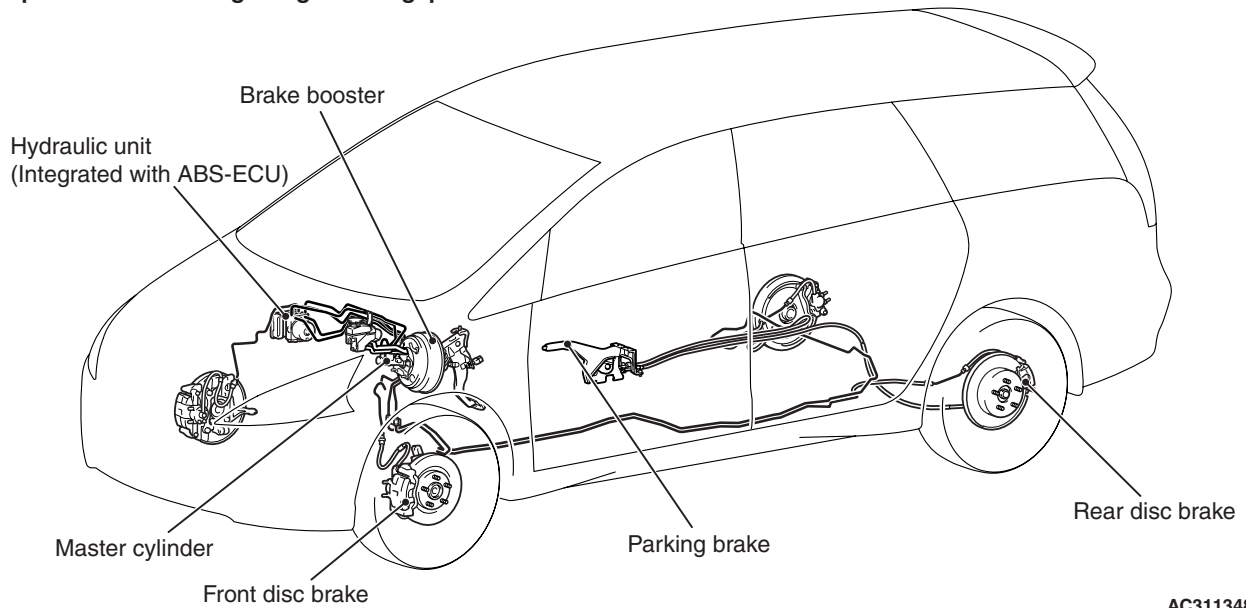
A selector lever of an instrument panel type has been adopted in order to facilitate walkthrough between the seats.

## SERVICE BRAKE

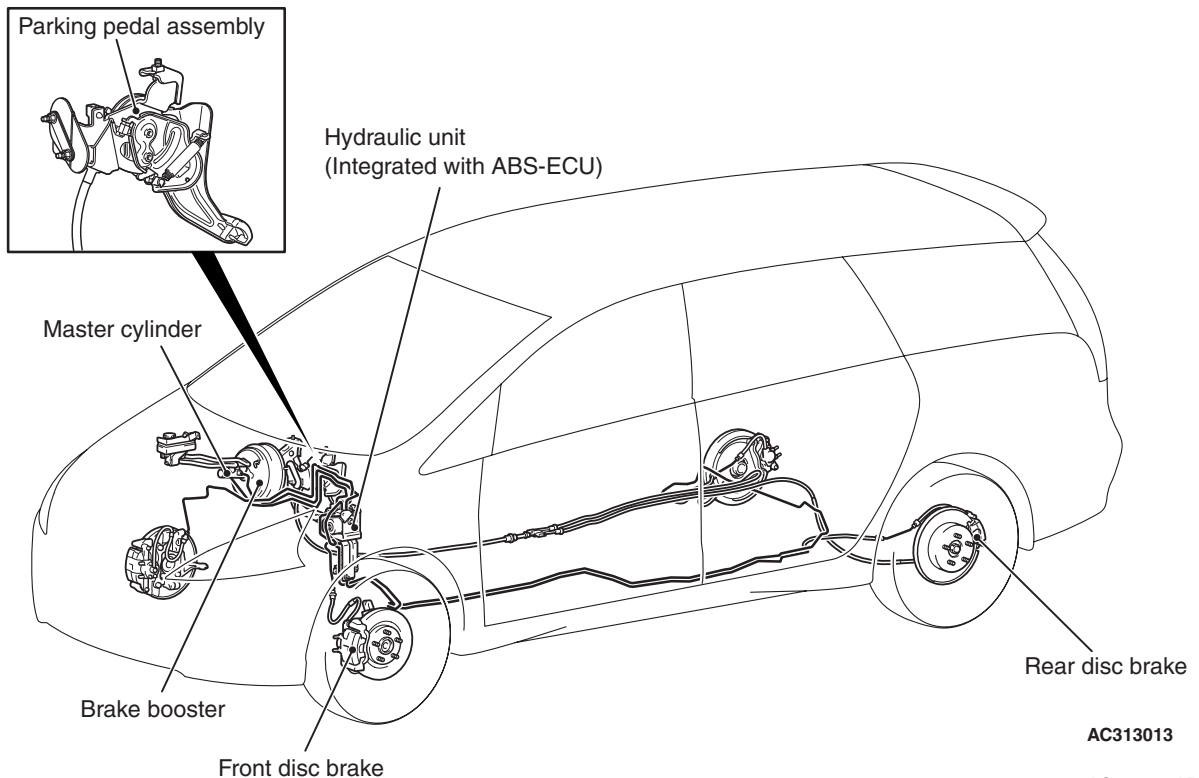
M2000024000065

The brake system has been designed to give greater reliability and durability and to provide excellent braking performance.

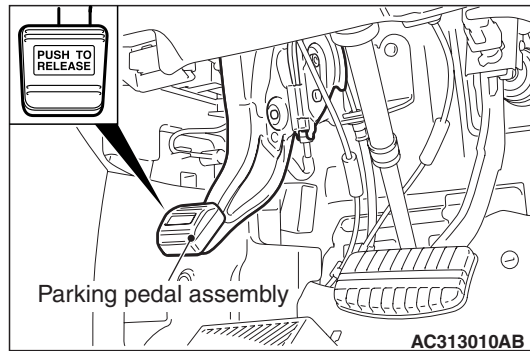
<Except vehicles for Hong Kong and Singapore>



<Vehicles for Hong Kong and Singapore>



- A 8+9 inch tandem brake booster has been adopted to provide sufficient braking force in sudden braking operation.
- 16-inch 2-piston front ventilated disc brakes and 16-inch rear solid disc brakes have been adopted to provide stable braking force, improved braking feel, and fade-resistant characteristics.

**PARKING BRAKE <VEHICLES FOR  
HONG KONG AND SINGAPORE>**

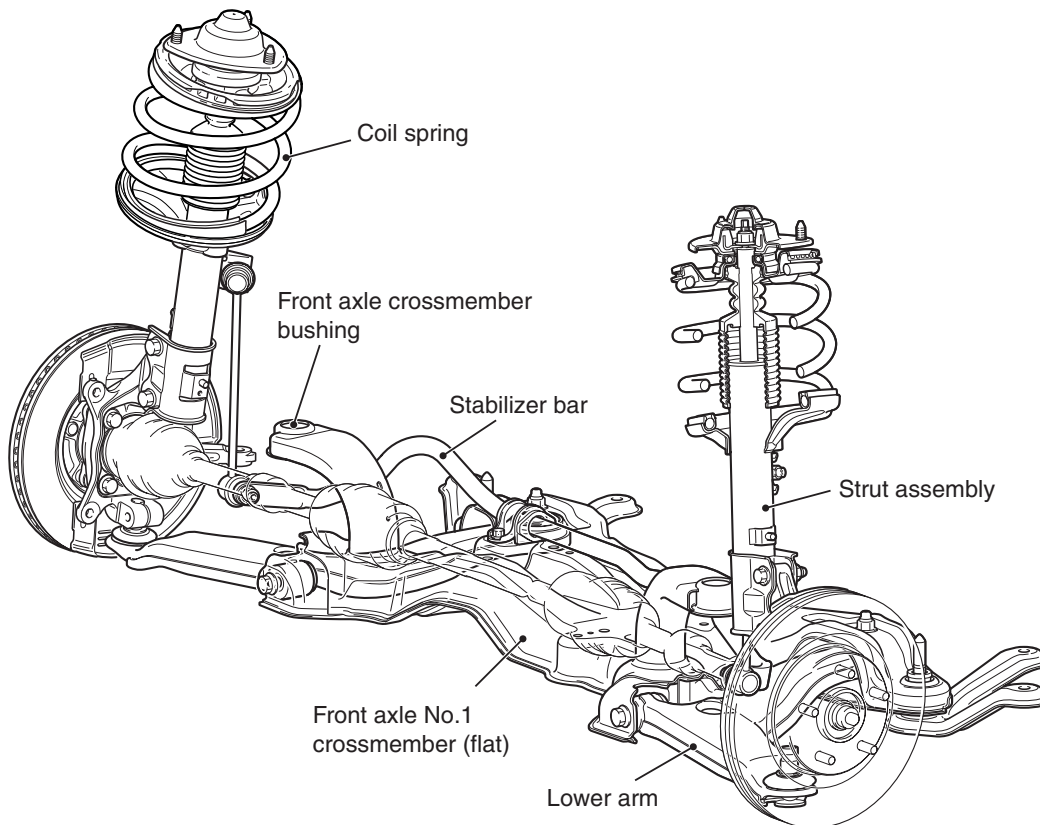
The parking brake is of a mechanical rear-wheel acting type. The foot pedal is depressed to lock and release the parking brake for easier operation. The pedal surface is labeled with "PUSH TO RELEASE," and users can easily understand the pedal release mechanism.

**SUSPENSION**

M2000023000200

**FRONT SUSPENSION**

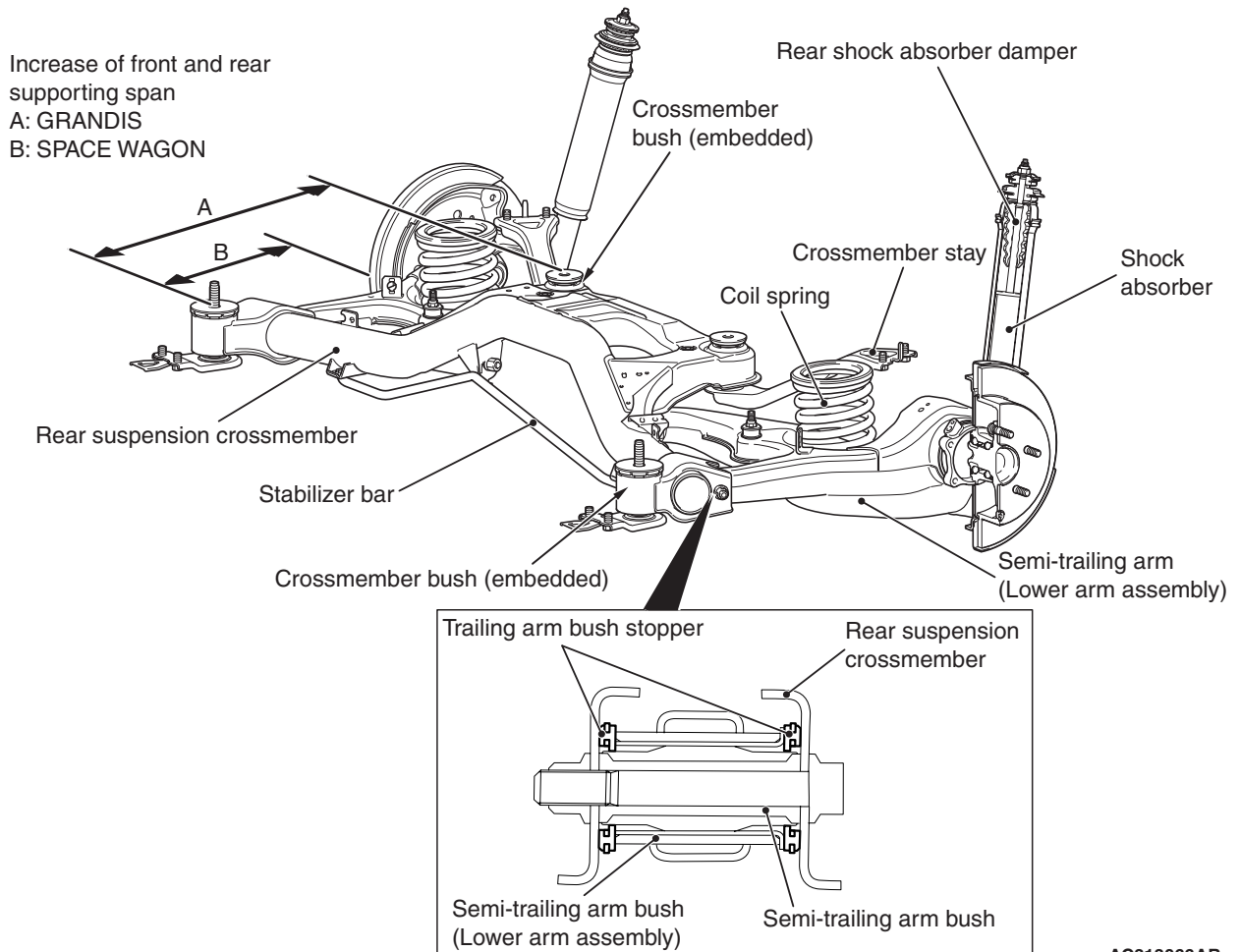
McPherson strut suspension and vibration-proof flat crossmember have been adopted.



AC301984AB

## REAR SUSPENSION

To obtain more cabin space, the semi-trailing arm type suspension (with low floor availability) adopted in the SPACE WAGON has been introduced. By increasing the crossmember support span and optimising each bushing, higher level of drivability and comfortable ride have been achieved.

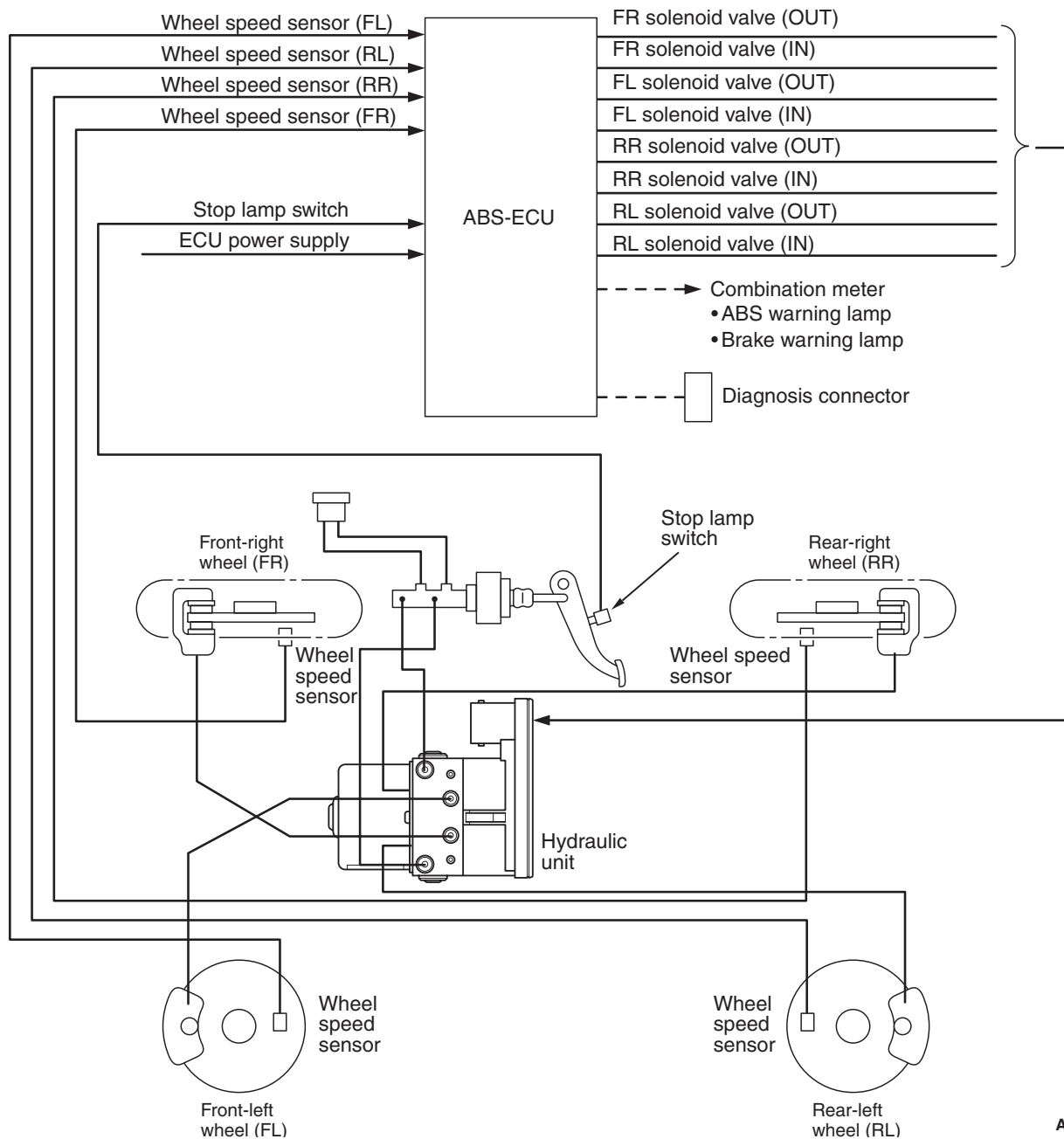


AC313066AB

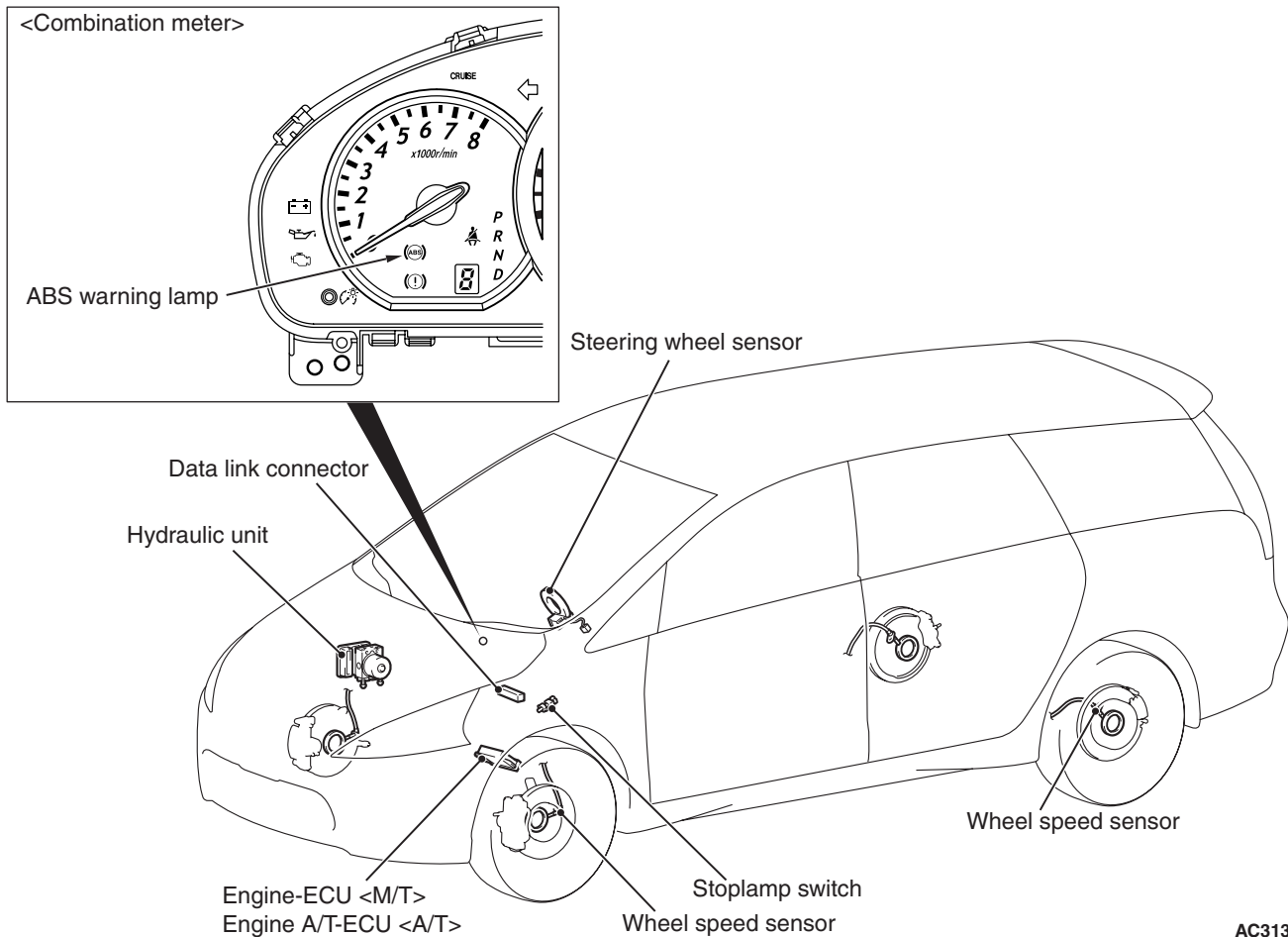
## ACTIVE SAFETY

M2000031000346

## BRAKING SYSTEM



AC311860AB



AC313061AB

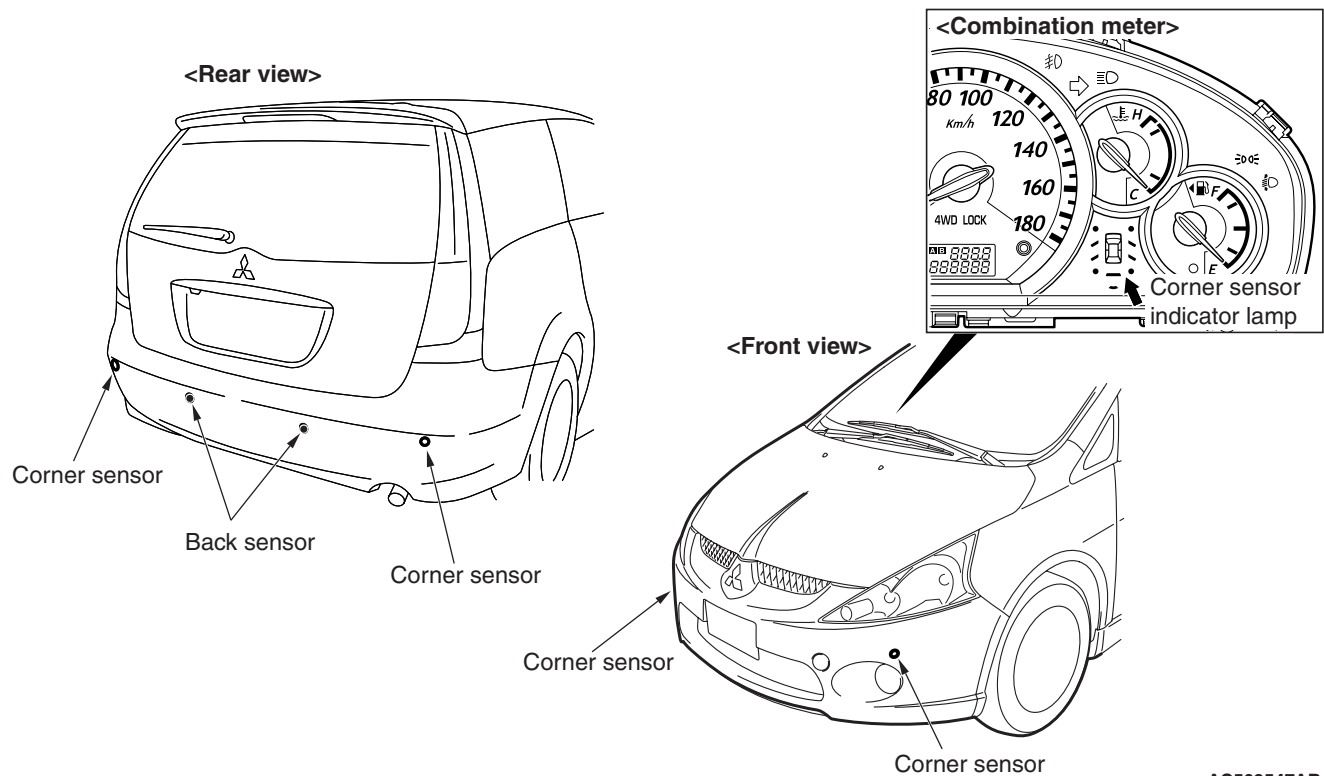
## 4-WHEEL ANTI-SKID BRAKING SYSTEM (4ABS)

- A 4-wheel anti-skid braking system (4ABS) has been adopted to prevent slipping caused by the vehicle wheels locking up, in order to maintain an appropriate braking distance, and also to maintain a stable vehicle posture and steering performance.
- An electronic brake-force distribution (EBD) which makes it possible to maintain the maximum amount of braking force even when the vehicle's load is varied.

## ELECTRONIC BRAKE-FORCE DISTRIBUTION (EBD) CONTROL

An electronic brake-force distribution (EBD) control is a control system which provides a high level of control for both vehicle braking force and vehicle stability.

In ABS, electronic control is used so the rear wheel brake hydraulic pressure during braking is regulated by rear wheel control solenoid valves in accordance with the vehicle's rate of deceleration, and the front and rear wheel slippage which are calculated from the signals received from the various ABS sensors.

**CORNER/BACK SENSOR <VEHICLES  
FOR HONG KONG AND SINGAPORE>**

AC503547AB

Corner sensor and back sensor have been adopted (option).

The corner sensors (on each corner of the front and rear bumpers) and the back sensor (on the rear bumper) are equipped with ultrasonic sensors to detect the obstacles at the corners and to rearward of the vehicle. They inform the driver of the position of the obstacles and remaining distance between the vehicle and obstacles, using the buzzer and warning indicator on the combination meter.

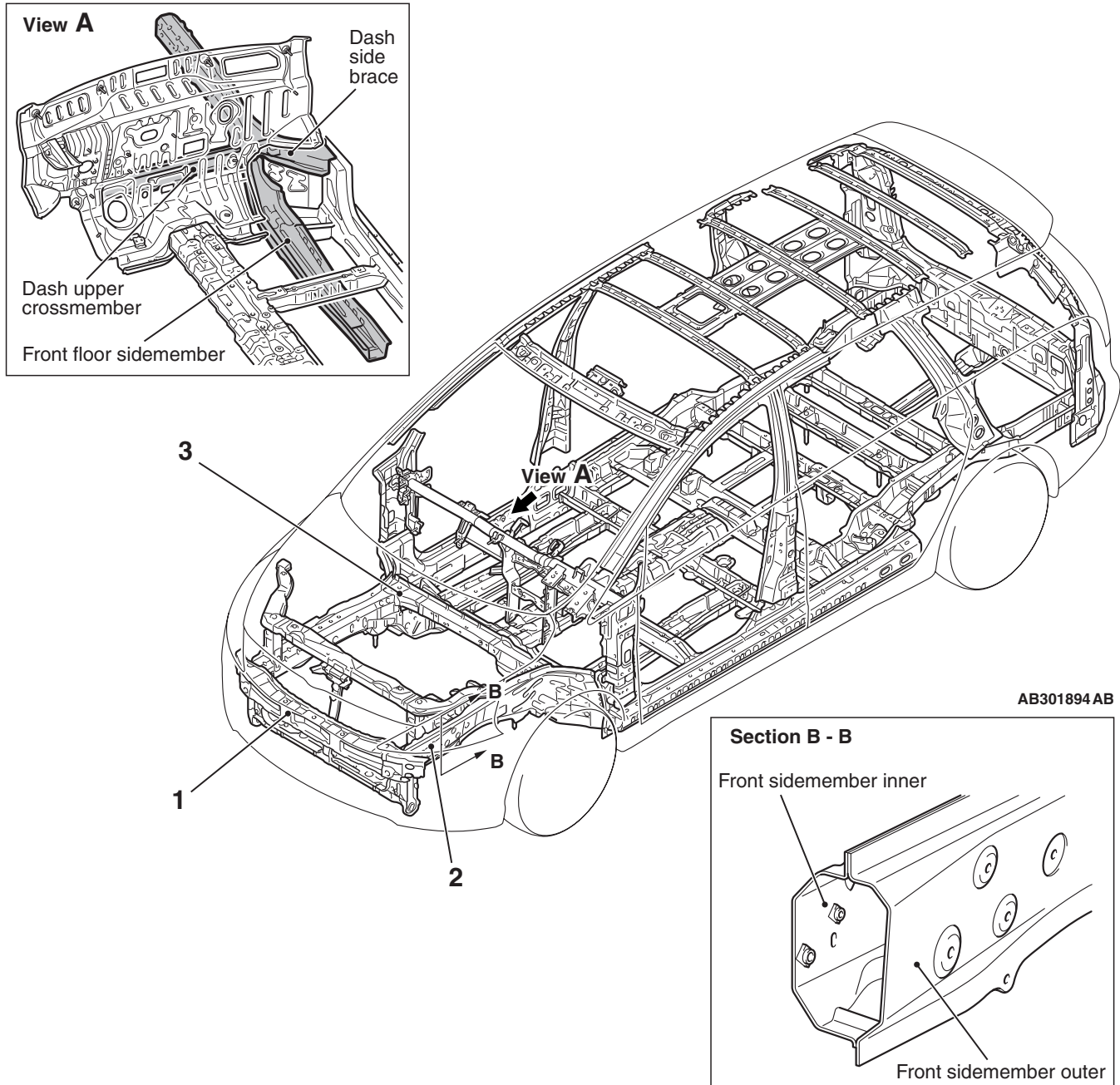


## PASSIVE SAFETY

M2000032000349

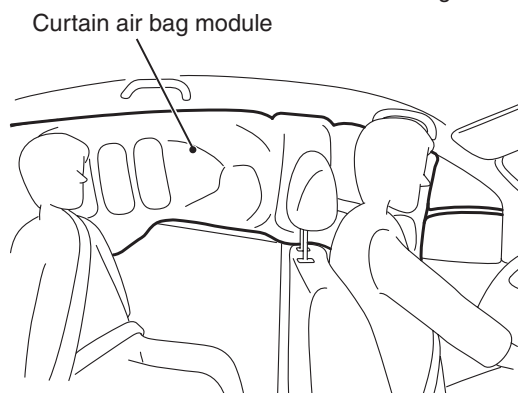
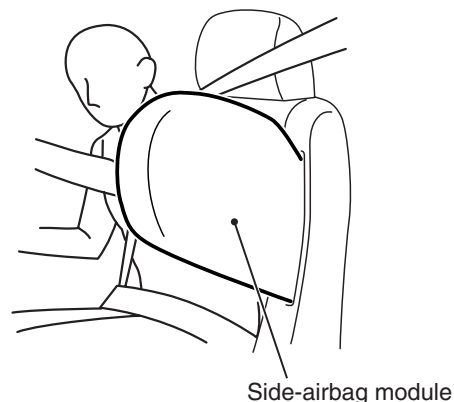
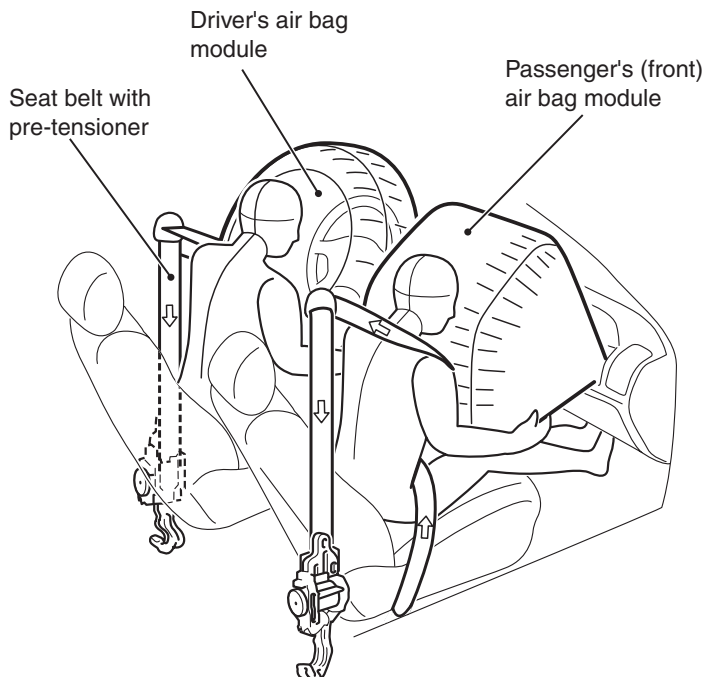
### IMPACT SAFETY BODY

The front and rear structures to absorb high energy, and the highly tough cabin structure reduce the risk of passenger injuries at front-, rear-, and side-impact collisions, secure the space for life protection, and facilitate rescuing passengers.



1. The front end-beam with large cross-section has been adopted.
2. The front side member with octagonal cross-section has been adopted.
3. The front frame structure is supported in three directions by the dash upper crossmember, dash side braces, and large front floor sidemembers.

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS) AND FRONT SEAT BELTS WITH PRE-TENSIONER



AC311946AB

### SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

The SRS is designed to supplement the front seat belts. It eliminates or reduces injury to the front passenger(s) by deploying air bag(s) in case of a head-on collision.

#### SRS SIDE-AIRBAG

Side-airbag systems in the front seats are activated when sideward impacts applied to the vehicle exceed a threshold level to protect the occupants upper bodies.

#### SRS CURTAIN AIRBAG

The curtain air bag systems are activated when sideward impacts applied to the vehicle exceed a threshold, level to protect the heads of the occupants in the front and rear seats.

### SEATBELT WITH PRE-TENSIONER

The seat belts with pre-tensioner work simultaneously with the SRS. The seat belt incorporating the pre-tensioner automatically winds the seat belt upon front impact to reduce forward shifting of the driver's and passenger's.

### DUAL STAGE AIR BAG <VEHICLES FOR HONG KONG, SINGAPORE, AUSTRALIA AND NEW ZEALAND>

SRS-ECU uses data of the front impact sensor (in engine compartment) and G sensor (in SRS-ECU) to calculate collision severity during frontal collision.

SRS-ECU judges necessity of the front air bag \* and seat belt pre-tensioner based on the calculated collision severity and the position of the seat slide sensor.

*NOTE: \*: Air bag module has 1st and 2nd squibs. SRS-ECU controls 2nd deployment to adjust airbag operation.*

DRIVER'S AIR BAG MODULE	LOW-SPEED CRASH	HIGH-SPEED CRASH
Driver's seat located in front area	Only 1st stage	Only 1st stage
Driver's seat located in rear area	Only 1st stage	1st and 2nd stage at the same time
PASSENGER'S (FRONT) AIR BAG MODULE	LOW-SPEED CRASH	HIGH-SPEED CRASH
No relation with seat position	Only 1st stage	1st and 2nd stage at the same time

### STEERING SHAFT/STEERING COLUMN

Impact absorbing mechanism consisting of the telescopic steering shaft and detachable steering column has been adopted to reduce impact that driver receives by the steering wheel.

### BRAKE PEDAL, PARKING BRAKE PEDAL <VEHICLES FOR HONG KONG AND SINGAPORE>

A brake pedal and parking brake pedal retraction suppression mechanism that minimizes the retraction of the brake pedal in the event of a frontal collision has been adopted to reduce the shock to the feet of the driver.

### ISO-FIX\* CHILD SEAT FIXING BAR <VEHICLES FOR HONG KONG AND SINGAPORE>

The anchor bar enabling easy and secure installation of the ISO-FIX compatible child seat has been prepared on second seat as a standard feature.

*NOTE: \*ISO: (International Organization for Standardization) complied child seat fixing method*

### POWER WINDOW WITH A SAFETY MECHANISM <VEHICLES FOR HONG KONG AND SINGAPORE>

The power window with a safety feature has been adopted so that the window automatically stops and goes down when pinching is felt while the window is going up.

### SUNROOF WITH A SAFETY MECHANISM

A tilt-up type sunroof for the front and a sliding type sunroof for the rear have been established as optional parts. A safety feature has been adopted for the electrical sliding type sunroof on the rear so that the roof lid glass operates reversely and stops when pinching is felt.

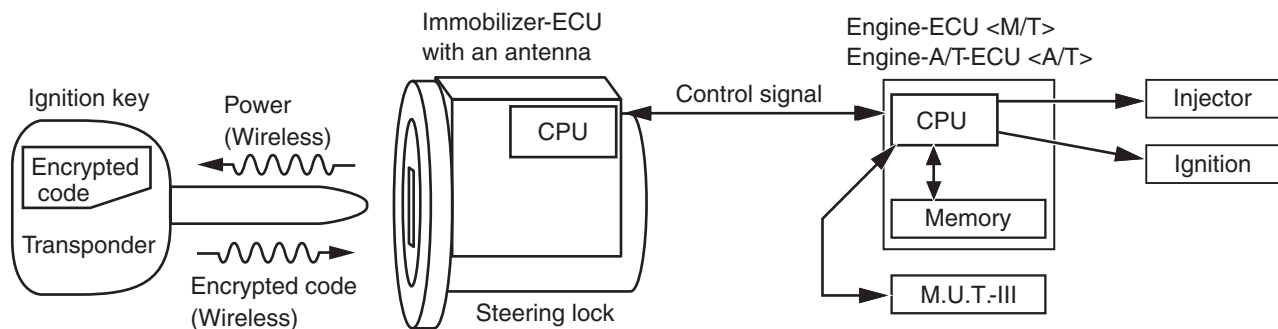
### TRIMS, HEADLINING

A shock absorbing structure has been adopted for the pillar trim, quarter trim, and headlining in order to reduce impact applied to occupants' head during collision. <Vehicles without SRS side airbag and SRS curtain airbag>

## EQUIPMENTS

### IMMOBILIZER SYSTEM <EXCEPT VEHICLES FOR GENERAL EXPORT AND BRAZIL>

M2000026000306



This system lets the engine be started only when an encrypted code that is recorded in the ignition key is the same as an encrypted code that is recorded in the immobilizer-ECU.

AC304482AD

**ENVIRONMENTAL PROTECTION**

M2000027000246

Mitsubishi has given careful consideration to protection of natural resources and the environment in the vehicle. Environmentally friendly features are shown below.

**Items Dealing with Environmental Protection**

<b>Prevention of atmospheric pollution</b>	<b>Parts name</b>	<b>Main detail</b>
Air pollution control	Cylinder head gasket	Employment of metal materials reduces the volume of incomplete combustion generated between the cylinder block and cylinder head, and suppresses the level of unburned hydrocarbon (HC).
Reduction of hazardous waste	Body paint	Solvent level reduced in top paint of the body coat.
	Fuel tank, radiator, heater core, battery cable terminal, glass ceramic print, wiring harnesses, wheel balance weight	Uses lead-free materials.
	Engine, general gasket	Uses asbestos-free materials.
	Waterproofing film	Uses polyvinyl chloride (PVC) free materials.
Recyclable thermoplastics	Tailgate weatherstrips, Vacuum hoses for engine controlling, Air intake hose, High pressure fuel hose	Easy recyclable.
	Bumper, Instrument panel, Interior trims, Radiator grille, Door outside handles	Apply thermoplastics.
Recycled materials	Bumper, Instrument panel, Interior trims, Radiator grille Door outside handles, Floor spacer	Recycled from in-house scrap.
	Sound insulator for dash panel, Engine oil level gage	Recycled from other industries scrap.
Prevention of ozone layer depletion	Air-conditioners refrigerant	HFC134a is used.

**SERVICEABILITY AND RELIABILITY**

M2000028000261

**M.U.T.-III (MULTI USE TESTER-III)**

CAN, an abbreviation for Controller Area Network, is an ISO-certified international standard for a serial multiplex communication protocol<sup>\*1</sup>. A communication circuit employing the CAN protocol connects each ECU, and sensor data can be shared among ECUs, which enables more reduction in wiring.

**NOTE:** <sup>\*1</sup>: The regulations have been decided in detail, from software matters such as the necessary transmission rate for communication, the system, data format, and communication timing control method to hardware matters such as the harness type and length and the resistance values. CAN offers the following advantages.

- Transmission rates are much faster than those in conventional communication (up to 1 Mbps), allowing much more data to be sent.
- It is exceptionally immune to noise, and the data obtained from each error detection device is more reliable.
- Each ECU connected via the CAN communicates independently, therefore if the ECU enters damaged mode, communications can be continued in some cases.

### OVERALL SERVICEABILITY

By meeting all the serviceability improvement requirements for the current vehicle according to the research conducted by dealers and further improving serviceability of the items of high servicing frequency, we achieved excellent overall serviceability compared to those of the competitors.

### SERVICEABILITY FEATURE

- Engine oil, oil filter, coolant, and drive belt can be independently replaced without removing other components.
- Optimum piping of the fuel pump module and dividing the floor carpet eliminates removal of the front seat and seat rail for fuel pump module replacement.
- Adoption of the LED rear combination lamp eliminates bulb replacement.
- Assembling the front window regulator related components eliminates glass adjustment after front window regulator replacement.
- By adoption of the non-volatile memory (EEPROM\*), a learned value is maintained even when battery cable or control unit connectors are disconnected. As a result, maintainability improvement has been achieved.

*NOTE: EEPROM\*: Electrical Erasable Programmable ROM (Special type of memory that can be programmed or erased electrically)*

## VEHICLE IDENTIFICATION

M2000001001562

### MODELS

**<Vehicles for General Export (Except vehicles for Hong Kong, Singapore and Brazil) >**

Model code		Engine model	Transmission model	Fuel supply system
NA4W	LNUYL	4G69-SOHC MIVEC (2,378 mL)	F5M42 <2WD, 5M/T>	MPI
	LRUYL/R		F4A4B <2WD, 4A/T with sport mode>	

**(Vehicles for Hong Kong and Singapore)**

Model code		Engine model	Transmission model	Fuel supply system
NA4W	LRUYR1D	4G69-SOHC MIVEC (2,378 mL)	F4A4B <2WD, 4A/T with sport mode>	MPI

**(Vehicles for Brazil)**

Model code		Engine model	Transmission model	Fuel supply system
NA4W	LRUYL1FB	4G69-SOHC MIVEC (2,378 mL)	F4A4B <2WD, 4A/T with sport mode>	MPI

## &lt;Vehicles for GCC&gt;

Model code		Engine model	Transmission model	Fuel supply system
NA4W	LNUYLW	4G69-SOHC MIVEC (2,378 mL)	F5M42 <2WD, 5M/T>	MPI
	LRUYLW		F4A4B <2WD, 4A/T with sport mode>	

## &lt;Vehicles for Australia and New Zealand&gt;

Model code		Engine model	Transmission model	Fuel supply system
NA4W	LRUYR8	4G69-SOHC MIVEC (2,378 mL)	F4A4B <2WD, 4A/T with sport mode>	MPI

## MODEL CODE

NA 4 W L N U Y L W								
1	2	3	4	5	6	7	8	9

AC310350AB

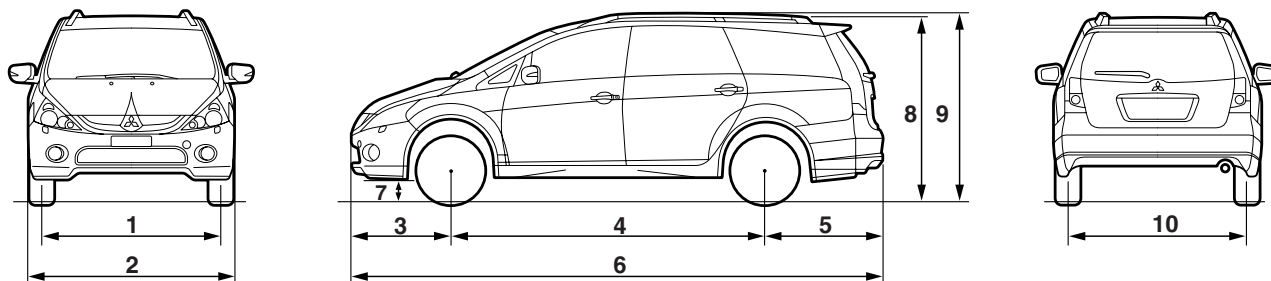
No.	Item	Content	
1	Development	NA	GRANDIS
2	Engine type	4	2,378mL
3	Sort	W	Wagon
4	Body style	L	4-door station wagon
5	Transmission type	N	5-speed manual transmission
		R	4-speed automatic transmission

No.	Item	Content	
6	Seating capacity	U	7 seating
7	Specification engine feature	Y	MPI-SOHC-MIVEC
8	Steering wheel location	L	Left hand
		R	Right hand
9	Destination	None	For General Export (Except for Hong Kong and Singapore)
		1D	For Hong kong
		W	For GCC
		8	For Australia and New Zealand
		1FB	For Brazil

## MAJOR SPECIFICATIONS

M2000030000503

### VEHICLES FOR GENERAL EXPORT (EXCEPT VEHICLES FOR HONG KONG, SINGAPORE AND BRAZIL)

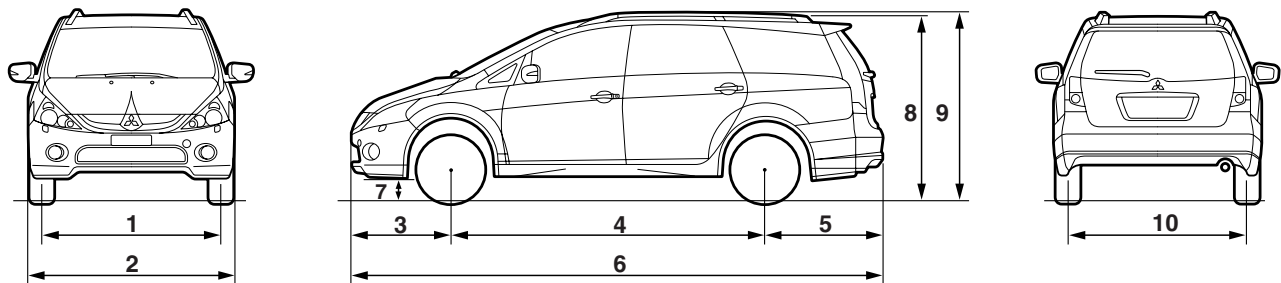


AC311125AB

Item			NA4WLNUYL	NA4WLRUYL/R	
Vehicle dimensions mm	Front track		1	1,550	1,550
	Overall width		2	1,795	1,795
	Front overhang		3	900	900
	Wheelbase		4	2,830	2,830
	Rear overhang		5	1,035	1,035
	Overall length		6	4,765	4,765
	Ground clearance (unladen)		7	155 165*	155 165*
	Overall height (unladen)	Without roof rails	8	1,655 1,665*	1,655 1,665*
		With roof rails	9	1,690 1,700*	1,690 1,700*
	Rear track		10	1,555	1,555
Vehicle weight kg	Kerb weight			1,615	1,625
	Max. gross vehicle weight			2,250	2,250
	Max. axle weight rating-front			1,100	1,100
	Max. axle weight rating-rear			1,190	1,190
Seating capacity			7	7	
Engine	Model code			4G69	4G69
	Total displacement mL			2,378	2,378
	Maximum output EEC-NET kW/r· min			121/6,000	121/6,000
	Maximum torque EEC-NET N· m/r· min			217/4,000	217/4,000
Transmission	Model code			F5M42	F4A4B
	Type			5-speed manual	4-speed automatic
Fuel system	Fuel supply system			MPI	MPI
Performance	Maximum speed km/h			200	190
	Minimum turning radius m	With 16-inch wheel		5.5	5.5

NOTE: \*: Vehicles with high ground clearance suspensions

## VEHICLES FOR HONG KONG AND SINGAPORE

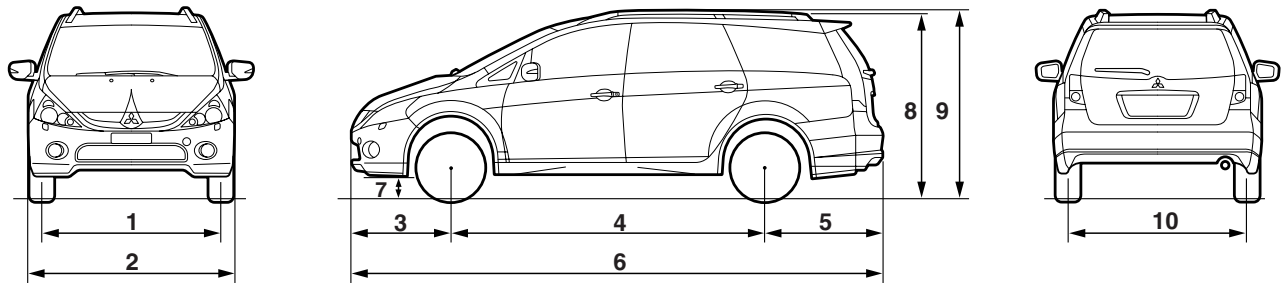


AC311125AB

Item			NA4WLRUYR1D	
Vehicle dimensions mm	Front track		1	1,550
	Overall width		2	1,795
	Front overhang		3	890
	Wheelbase		4	2,830
	Rear overhang		5	1,035
	Overall length		6	4,755
	Ground clearance (unladen)		7	155
	Overall height (unladen)	Without roof rails	8	1,655
		With roof rails	9	1,690
	Rear track		10	1,555
Vehicle weight kg	Kerb weight			1,635
	Max. gross vehicle weight			2,250
	Max. axle weight rating-front			1,100
	Max. axle weight rating-rear			1,190
Seating capacity				7
Engine	Model code			4G69
	Total displacement mL			2,378
	Maximum output EEC-NET kW/r· min			121/6,000
	Maximum torque EEC-NET N· m/r· min			217/4,000
Transmission	Model code			F4A4B
	Type			4-speed automatic
Fuel system	Fuel supply system			MPI
Performance	Maximum speed km/h			190
	Minimum turning radius m	With 16-inch wheel		5.5
		With 17-inch wheel		5.8



## VEHICLES FOR BRAZIL

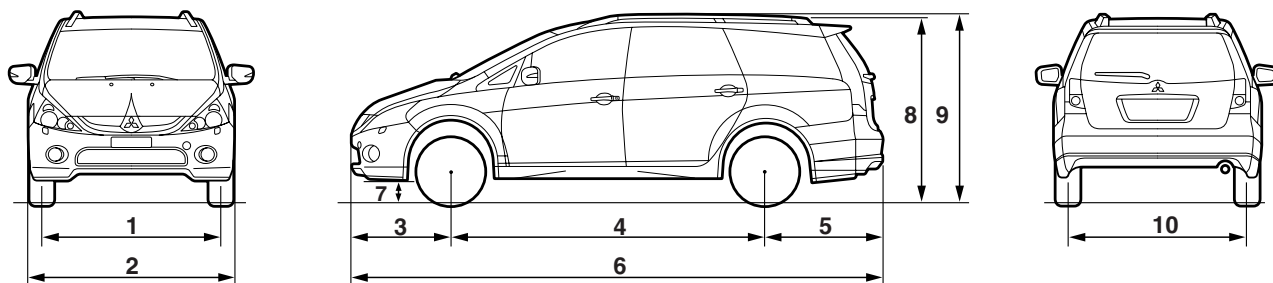


AC311125AB

Item			NA4WLRUYL1FB	
Vehicle dimensions mm	Front track		1	1,550
	Overall width		2	1,795
	Front overhang		3	900
	Wheelbase		4	2,830
	Rear overhang		5	1,035
	Overall length		6	4,765
	Ground clearance (unladen)		7	155 165*
	Overall height (unladen)	Without roof rails	8	1,655 1,665*
		With roof rails	9	1,690 1,700*
Rear track		10	1,555	
Vehicle weight kg	Kerb weight			1,625
	Max. gross vehicle weight			2,250
	Max. axle weight rating-front			1,100
	Max. axle weight rating-rear			1,190
Seating capacity				7
Engine	Model code			4G69
	Total displacement mL			2,378
	Maximum output EEC-NET kW/r· min			120/6,000
	Maximum torque EEC-NET N· m/r· min			216/4,000
Transmission	Model code			F4A4B
	Type			4-speed automatic
Fuel system	Fuel supply system			MPI
Performance	Maximum speed km/h			190
	Minimum turning radius m	With 16-inch wheel		5.5

NOTE: \*: Vehicles with high ground clearance suspensions

## VEHICLES FOR GCC

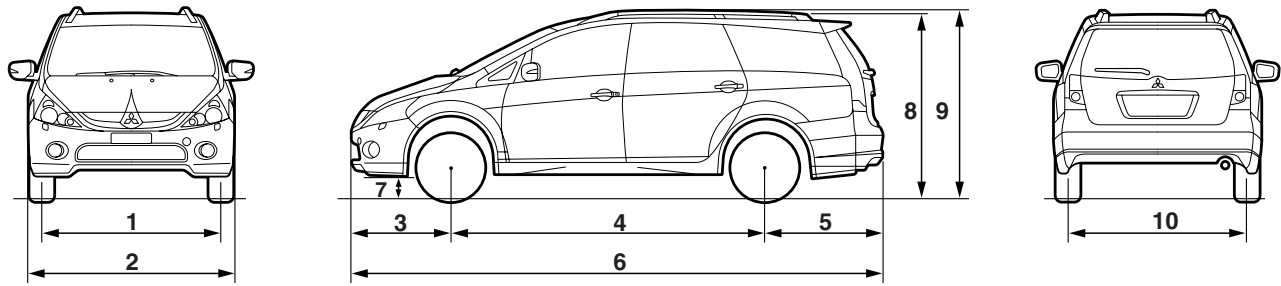


AC311125AB

Item			NA4WLNUYLW	NA4WLRUYLW	
Vehicle dimensions mm	Front track		1	1,550	1,550
	Overall width		2	1,795	1,795
	Front overhang		3	900	900
	Wheelbase		4	2,830	2,830
	Rear overhang		5	1,035	1,035
	Overall length		6	4,765	4,765
	Ground clearance (unladen)		7	165*	165*
	Overall height (unladen)	Without roof rails	8	1,665*	1,665*
		With roof rails	9	1,700*	1,700*
	Rear track		10	1,555	1,555
Vehicle weight kg	Kerb weight			1,615	1,630
	Max. gross vehicle weight			2,250	2,250
	Max. axle weight rating-front			1,100	1,100
	Max. axle weight rating-rear			1,190	1,190
Seating capacity			7	7	
Engine	Model code			4G69	4G69
	Total displacement mL			2,378	2,378
	Maximum output SAE-GROSS HP/r· min			165/6,000	165/6,000
	Maximum torque SAE-GROSS kgf· m/r· min			22.1/4,000	22.1/4,000
Transmission	Model code			F5M42	F4A4B
	Type			5-speed manual	4-speed automatic
Fuel system	Fuel supply system			MPI	MPI
Performance	Maximum speed km/h			200	190
	Minimum turning radius m	With 16-inch wheel		5.5	5.5

NOTE: \*: Vehicles with high ground clearance suspensions

## VEHICLES FOR AUSTRALIA AND NEW ZEALAND



AC311125AB

Item			NA4WLRUYR8	
Vehicle dimensions mm	Front track		1	1,550
	Overall width		2	1,795
	Front overhang		3	895
	Wheelbase		4	2,830
	Rear overhang		5	1,035
	Overall length		6	4,760
	Ground clearance		7	155
	Overall height	Without roof rails	8	1,655
		With roof rails	9	1,690
	Rear track		10	1,555
Vehicle weight kg	Kerb weight			1,660
	Max. gross vehicle weight			2,250
	Max. axle weight rating-front			1,100
	Max. axle weight rating-rear			1,190
Seating capacity				7
Engine	Model code			4G69
	Total displacement mL			2,378
	Maximum output EEC-NET kW/r· min			120/6,000
	Maximum torque EEC-NET N· m/r· min			216/4,000
Transmission	Model code			F4A4B
	Type			4-speed automatic
Fuel system	Fuel supply system			MPI
Performance	Maximum speed km/h			190
	Minimum turning radius m	With 16-inch wheel		5.5
		With 17-inch wheel		5.8