

# GENERAL

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## HOW TO USE THIS MANUAL

### MODEL INDICATIONS

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

1600: Indicates models equipped with the 1,597 ml <4G92> petrol engine.

1800: Indicates models equipped with the 1,834 ml <4G93> petrol engine.

1900D: Indicates models equipped with the 1,870 ml <F8QT> diesel engine.

MPI: Indicates the multipoint injection, or engines equipped with the multipoint injection.

SOHC: Indicates an engine with the single overhead camshaft, or a model equipped with such an engine.

DOHC: Indicates an engine with the double overhead camshaft, or a model equipped with such an engine.

M/T: Indicates the manual transmission, or models equipped with the manual transmission.

A/T: Indicates the automatic transmission, or models equipped with the automatic transmission.

A/C: Indicates the air conditioner.

ECU: Indicates the electronic control unit.

## VEHICLE IDENTIFICATION

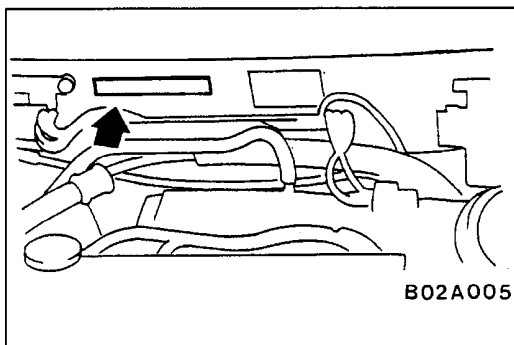
### MODELS

#### <HATCHBACK>

Model code		Engine model	Transmission model	Fuel supply system
DA1A	LNDEL6/R6	4G92-SOHC (1,597 mℓ)	F5MR1 (2WD-5M/T)	MPI
	LRDEL6/R6		F4A41 (2WD-4A/T)	
	LNJEL6/R6		F5MR1 (2WD-5M/T)	
	LRJEL6/R6		F4A41 (2WD-4A/T)	
	LNDVL6/R6		F5MR1 (2WD-5M/T)	
	LRDVL6/R6		F4A41 (2WD-4A/T)	
	LNJVL6/R6		F5MR1 (2WD-5M/T)	
	LRJVL6/R6		F4A41 (2WD-4A/T)	
DA2A	LNJEL6/R6	4G93-SOHC (1,834 mℓ)	F5MR2 (2WD-5M/T)	MPI
	LRJEL6/R6		F4A42 (2WD-4A/T)	
	LNPEL6/R6		F5MR2 (2WD-5M/T)	
	LRPEL6/R6		F4A42 (2WD-4A/T)	
DA4A	LNDFL6/R6	F8QT (1,870 mℓ)	F5MR3 (2WD-5M/T)	Fuel injection pump
	LNJFL6/R6			
	LNPF6/R6			

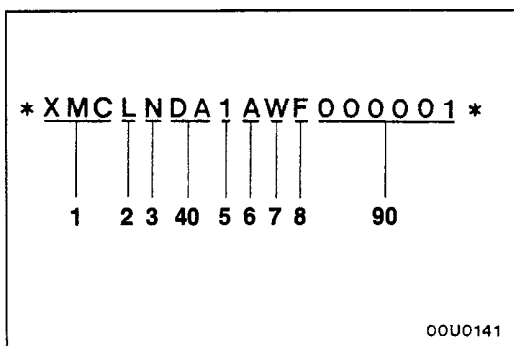
#### <SEDAN>

Model code		Engine model	Transmission model	Fuel supply system
DA1A	SNDEL6/R6	4G92-SOHC (1,597 mℓ)	F5MR1 (2WD-5M/T)	MPI
	SRDEL6/R6		F4A41 (2WD-4A/T)	
	SNJEL6/R6		F5MR1 (2WD-5M/T)	
	SRJEL6/R6		F4A41 (2WD-4A/T)	
	SNDVL6/R6		F5MR1 (2WD-5M/T)	
	SRDVL6/R6		F4A41 (2WD-4A/T)	
	SNJVL6/R6		F5MR1 (2WD-5M/T)	
	SRJVL6/R6		F4A41 (2WD-4A/T)	
	SNJVL6B		F5MR1 (2WD-5M/T)	
	SRJVL6B		F4A41 (2WD-4A/T)	
DA2A	SNJEL6/R6	4G93-SOHC (1,834 mℓ)	F5MR2 (2WD-5M/T)	MPI
	SRJEL6/R6		F4A42 (2WD-4A/T)	
	SNPEL6/R6		F5MR2 (2WD-5M/T)	
	SRPEL6/R6		F4A42 (2WD-4A/T)	
DA4A	SNDFL6/R6	F8QT (1,870 mℓ)	F5MR3 (2WD-5M/T)	Fuel injection pump
	SNJFL6/R6			
	SNPF6/R6			



### CHASSIS NUMBER

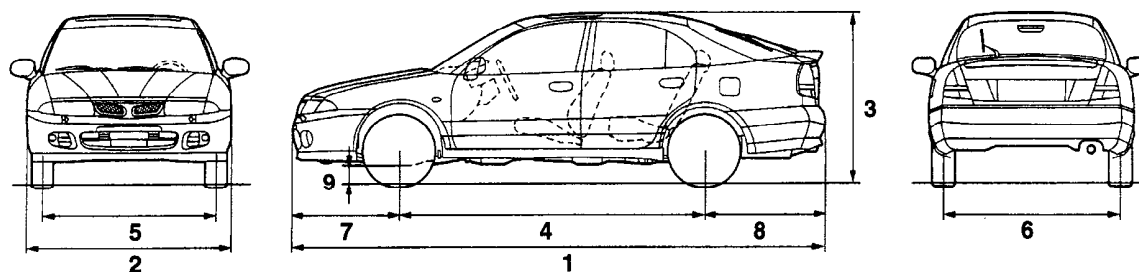
The chassis number is stamped on the toeboard inside the engine compartment.



No.	Items		Contents
1	Steering wheel location	XMC	Left hand drive
		XMD	Right hand drive
2	Body style	S	4-door sedan
		L	5-door hatchback
3	Transmission type	N	5-speed manual transmission
		R	4-speed automatic transmission
4	Vehicle line	DA	CARISMA
5	Development order	1	1,597 ml petrol engine
		2	1,834 ml petrol engine
		4	1,870 ml diesel engine
6	Sort	A	Passenger car
7	Model year	W	1998
8	Factory code	F	Netherlands Car B.V.
9	Serial number	–	–

## MAJOR SPECIFICATIONS

### HATCHBACK



00U0005

#### <DA1A>

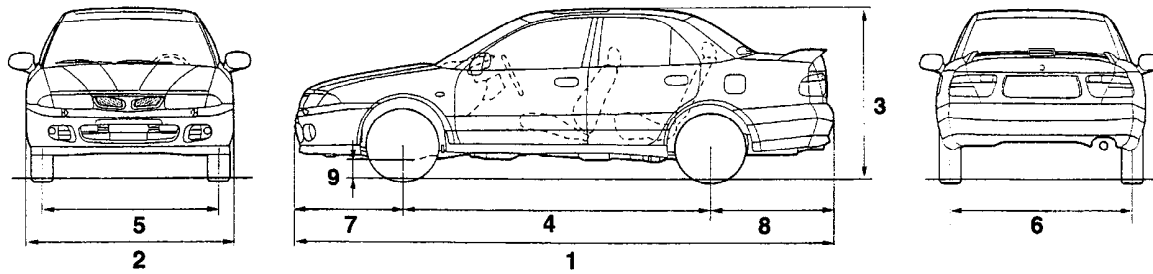
Items			DA1A LNDEL6, LNDER6	DA1A LRDEL6, LRDER6	DA1A LNJEL6, LNJER6	DA1A LRJEL6, LRJER6	DA1A LNDVL6, LNDVR6	DA1A LRDVL6, LRDVR6	DA1A LNJVL6, LNJVR6	DA1A LRJVL6, LRJVR6
Vehicle dimen- sions mm	Overall length	1	4,435	4,435	4,435	4,435	4,435	4,435	4,435	4,435
	Overall width	2	1,710	1,710	1,710	1,710	1,710	1,710	1,710	1,710
	Overall height (unladen)	3	1,405	1,405	1,405	1,405	1,405	1,405	1,405	1,405
	Wheel-base	4	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
	Track-front	5	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455
	Track-rear	6	1,475	1,475	1,475	1,475	1,475	1,475	1,475	1,475
	Overhang-front	7	880	880	880	880	880	880	880	880
	Overhang-rear	8	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005
	Ground clearance (unladen)	9	155	150	155	150	155	150	155	150
Vehicle weight kg	Kerb weight		1,105	1,135	1,110	1,140	1,105	1,135	1,110	1,140
	Max. gross vehicle weight rating		1,630	1,660	1,630	1,660	1,630	1,660	1,630	1,660
	Max. axle weight rating-front		900	900	900	900	900	900	900	900
	Max. axle weight rating-rear		865	865	865	865	865	865	865	865
Seating capacity			5							

Items		DA1A LNDEL6, LNDER6	DA1A LRDEL6, LRDER6	DA1A LNJEL6, LNJER6	DA1A LRJEL6, LRJER6	DA1A LNDVL6, LNDVR6	DA1A LRDVL6, LRDVR6	DA1A LNJVL6, LNJVR6	DA1A LRJVL6, LRJVR6
Engine	Model No.	4G92							
	Total displacement mℓ	1,597							
Transmission	Model No.	F5MR1	F4A41	F5MR1	F4A41	F5MR1	F4A41	F5MR1	F4A41
	Type	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic
Fuel system	Fuel supply system	Electronic control multipoint fuel injection							

## &lt;DA2A, DA4A&gt;

Items			DA2A LNJEL6, LNJER6	DA2A LRJEL6, LRJER6	DA2A LNPEL6, LNPER6	DA2A LRPEL6, LRPER6	DA4A LNDFL6, LNDFR6	DA4A LNJFL6, LNJFR6	DA4A LNPFL6, LNPFR6
Vehicle dimen- sions mm	Overall length	1	4,435	4,435	4,435	4,435	4,445	4,445	4,445
	Overall width	2	1,710	1,710	1,710	1,710	1,710	1,710	1,710
	Overall height (unladen)	3	1,405	1,405	1,405	1,405	1,405	1,405	1,405
	Wheelbase	4	2,550	2,550	2,550	2,550	2,550	2,550	2,550
	Track-front	5	1,455	1,455	1,455	1,455	1,455	1,455	1,455
	Track-rear	6	1,475	1,475	1,475	1,475	1,475	1,475	1,475
	Overhang-front	7	880	880	880	880	890	890	890
	Overhang-rear	8	1,005	1,005	1,005	1,005	1,005	1,005	1,005
	Ground clearance (unladen)	9	155	150	155	150	155	155	155
Vehicle weight kg	Kerb weight		1,130	1,160	1,135	1,165	1,155	1,165	1,170
	Max. gross vehicle weight rating		1,660	1,690	1,660	1,690	1,695	1,695	1,695
	Max. axle weight rating-front		900	900	900	900	900	900	900
	Max. axle weight rating-rear		875	875	875	875	870	870	870
Seating capacity			5						
Engine	Model No.		4G93				F8QT		
	Total displacement ml		1,834				1,870		
Trans- mission	Model No.		F5MR2	F4A42	F5MR2	F4A42	F5MR3		
	Type		5-speed manual	4-speed auto- matic	5-speed manual	4-speed auto- matic	5-speed manual		
Fuel system	Fuel supply system		Electronic control multipoint fuel injection				Fuel injection pump		

# SEDAN



00U0115

## <DA1A>

Items			DA1A SNDEL6, SNDER6	DA1A SRDEL6, SRDER6	DA1A SNJEL6, SNJER6	DA1A SRJEL6, SRJER6
Vehicle dimensions mm	Overall length	1	4,435	4,435	4,435	4,435
	Overall width	2	1,710	1,710	1,710	1,710
	Overall height (unladen)	3	1,405	1,405	1,405	1,405
	Wheelbase	4	2,550	2,550	2,550	2,550
	Track-front	5	1,455	1,455	1,455	1,455
	Track-rear	6	1,475	1,475	1,475	1,475
	Overhang-front	7	880	880	880	880
	Overhang-rear	8	1,005	1,005	1,005	1,005
	Ground clearance (unladen)	9	155	150	155	150
Vehicle weight kg	Kerb weight		1,080	1,110	1,090	1,120
	Max. gross vehicle weight rating		1,610	1,640	1,610	1,640
	Max. axle weight rating-front		900	900	900	900
	Max. axle weight rating-rear		840	840	840	840
Seating capacity			5			
Engine	Model No.		4G92			
	Total displacement ml		1,597			
Transmission	Model No.		F5MR1	F4A41	F5MR1	F4A41
	Type		5-speed manual	4-speed automatic	5-speed manual	4-speed automatic
Fuel system	Fuel supply system		Electronic control multipoint fuel injection			

Items			DA1A SNDVL6, SNDVR6	DA1A SRDVL6, SRDVR6	DA1A SNJVL6, SNJVR6	DA1A SRJVL6, SRJVR6	DA1A SNJVL6B	DA1A SRJVL6B
Vehicle dimensions mm	Overall length	1	4,435	4,435	4,435	4,435	4,435	4,435
	Overall width	2	1,710	1,710	1,710	1,710	1,710	1,710
	Overall height (unladen)	3	1,405	1,405	1,405	1,405	1,405	1,405
	Wheelbase	4	2,550	2,550	2,550	2,550	2,550	2,550
	Track-front	5	1,455	1,455	1,455	1,455	1,455	1,455
	Track-rear	6	1,475	1,475	1,475	1,475	1,475	1,475
	Overhang-front	7	880	880	880	880	880	880
	Overhang-rear	8	1,005	1,005	1,005	1,005	1,005	1,005
	Ground clearance (unladen)	9	155	150	155	150	155	150
Vehicle weight kg	Kerb weight		1,080	1,110	1,090	1,120	1,130	1,160
	Max. gross vehicle weight rating		1,610	1,640	1,610	1,640	1,610	1,640
	Max. axle weight rating-front		900	900	900	900	900	900
	Max. axle weight rating-rear		840	840	840	840	840	840
Seating capacity			5					
Engine	Model No.		4G92					
	Total displacement mℓ		1,597					
Transmis- sion	Model No.		F5MR1	F4A41	F5MR1	F4A41	F5MR1	F4A41
	Type		5-speed manual	4-speed automatic	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic
Fuel system	Fuel supply system		Electronic control multipoint fuel injection					



<DA2A, DA4A>

Items			DA2A SNJEL6, SNJER6	DA2A SRJEL6, SRJER6	DA2A SNPEL6, SNPER6	DA2A SRPEL6, SRPER6	DA4A SNDFL6, SNDFR6	DA4A SNJFL6, SNJFR6	DA4A SNPFL6, SNPFR6
Vehicle dimen- sions mm	Overall length	1	4,435	4,435	4,435	4,435	4,445	4,445	4,445
	Overall width	2	1,710	1,710	1,710	1,710	1,710	1,710	1,710
	Overall height (unladen)	3	1,405	1,405	1,405	1,405	1,405	1,405	1,405
	Wheelbase	4	2,550	2,550	2,550	2,550	2,550	2,550	2,550
	Track-front	5	1,455	1,455	1,455	1,455	1,455	1,455	1,455
	Track-rear	6	1,475	1,475	1,475	1,475	1,475	1,475	1,475
	Overhang-front	7	880	880	880	880	890	890	890
	Overhang-rear	8	1,005	1,005	1,005	1,005	1,005	1,005	1,005
	Ground clearance (unladen)	9	155	150	155	150	155	155	155
Vehicle weight kg	Kerb weight		1,110	1,140	1,115	1,145	1,130	1,145	1,150
	Max. gross vehicle weight rating		1,640	1,670	1,640	1,670	1,675	1,675	1,675
	Max. axle weight rating-front		900	900	900	900	900	900	900
	Max. axle weight rating-rear		850	850	850	850	845	845	845
Seating capacity			5						
Engine	Model No.		4G93				F8QT		
	Total displacement ml		1,834				1,870		
Trans- mission	Model No.		F5MR2	F4A42	F5MR2	F4A42	F5MR3		
	Type		5-speed manual	4-speed auto- matic	5-speed manual	4-speed auto-matic	5-speed manual		
Fuel system	Fuel supply system		Electronic control multipoint fuel injection				Fuel injection pump		

## PRECAUTIONS BEFORE SERVICE

### SUPPLEMENTAL RESTRAINT SYSTEM (SRS), SEAT BELT WITH PRE-TENSIONER

1. Items to follow when servicing SRS
  - (1) Be sure to read GROUP 52B – Supplemental Restraint System (SRS).  
For safe operations, please follow the directions and heed all warnings.
  - (2) Wait at least 60 seconds after disconnecting the battery cable before doing any further work.  
The SRS system is designed to retain enough voltage to deploy the air bag even after the battery has been disconnected. Serious injury may result from unintended air bag deployment if work is done on the SRS system immediately after the battery cable is disconnected.
  - (3) Warning labels must be heeded when servicing or handling SRS components and seat belt with pre-tensioner. Warning labels are located in the following locations.
    - Sun visor
    - Glove box
    - SRS air bag control unit
    - Steering wheel
    - Steering gear and linkage
    - Air bag module (driver's side and front passenger's side)
    - Clock spring
    - Seat belt with pre-tensioner
    - Side air bag module
    - Side impact sensor
  - (4) Always use the designated special tools and test equipment.
  - (5) Store components removed from the SRS and seat belt with pre-tensioner in a clean and dry place.  
The air bag module and seat belt with pre-tensioner should be stored on a flat surface and placed so that the pad surface is facing upward.  
Do not place anything on top of it.
  - (6) Never attempt to disassemble or repair the SRS components (SRS air bag control unit, air bag module, clock spring and side impact sensor) and seat belt with pre-tensioner.
  - (7) Whenever you finish servicing the SRS and seat belt with pre-tensioner, check the SRS warning lamp operation to make sure that the system functions properly.
  - (8) Be sure to deploy the air bag and seat belt with pre-tensioner before disposing of the air bag module and seat belt with pre-tensioner or disposing of a vehicle equipped with an air bag and seat belt with pre-tensioner. (Refer to GROUP 52B – Air Bag Module and Seat Belt Pre-tensioner Disposal Procedures.)
2. Observe the following when carrying out operations on places where SRS components and seat belt with pre-tensioner are installed, including operations not directly related to the SRS air bag and seat belt with pre-tensioner.
  - (1) When removing or installing parts do not allow any impact or shock to the SRS components and seat belt with pre-tensioner.
  - (2) SRS components and seat belt with pre-tensioner should not be subjected to heat, so remove the SRS components and seat belt with pre-tensioner before drying or baking the vehicle after painting.
    - SRS components: 93°C or more
    - Seat belt with pre-tensioner 90°C or moreAfter re-installing them, check the SRS warning lamp operation to make sure that the system functions properly.