1984

Service Manual

Conquest

CHRYSLER CORPORATION

SAFETY NOTICE

Proper service and repair is important to the safe, reliable, operation of all motor vehicles. The service procedures recommended and described in this publication were developed for professional service personnel and are effective methods for performing vehicle repair. Following these procedures will help assure efficient economical vehicle performance and service reliability. Some of these service procedures require the use of special tools designed for specific procedures. These special tools should be used when recommended throughout this publication.

Special attention should be exercised when working with spring or tension loaded fasteners and devices such as E-Clips, Circlips, Snaprings etc. as careless removal can cause personal injury. Always wear safety goggles whenever working on vehicles or vehicle components.

It is important to note that this publication contains various **Cautions** and **Warnings**. These should be carefully read in order to minimize the risk of personal injury, or the possibility that improper service methods may damage the vehicle or render it unsafe. It is important to note these **Cautions** and **Warnings** cover only the situations and procedures Chrysler Corporation has encountered and recommended. Chrysler Corporation could not possibly know, evaluate, and advise the service trade of all conceivable ways that service may be performed or of the possible hazards of each. Consequently Chrysler Corporation has not undertaken any such broad service review. Accordingly, anyone who uses a service procedure or tool that is not recommended in this publication must assure oneself thoroughly that neither personal safety nor vehicle safety be jeopardized by the service methods they select.

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National Institute for AUTOMOTIVE SERVICE EXCELLENCE

SERVICE TRAINING

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Service Manual

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FOREWORD

This Service Manual has been prepared with the latest service information available at the time of publication. It is subdivided into various group categories and each section contains diagnosis, disassembly, repair, and installation procedures along with complete specifications and tightening references. Use of this manual will aid in properly performing any servicing necessary to maintain or restore the high levels of performance and reliability designed into these outstanding vehicles.

CHRYSLER CORPORATION

GROUP INDEX

INTRODUCTION

This publication contains the essential removal, installation, adjustment and maintenance procedures for servicing all Body Styles. This information is current as of time of publication.

INDEX

The preceding page contains a table of contents which lists the group number, group title and symbol of each group. The symbol is also located at the left or right top of each page.

GROUP INDEX

The first page in each group has an index to the subjects included in that group.

PAGE NUMBERS

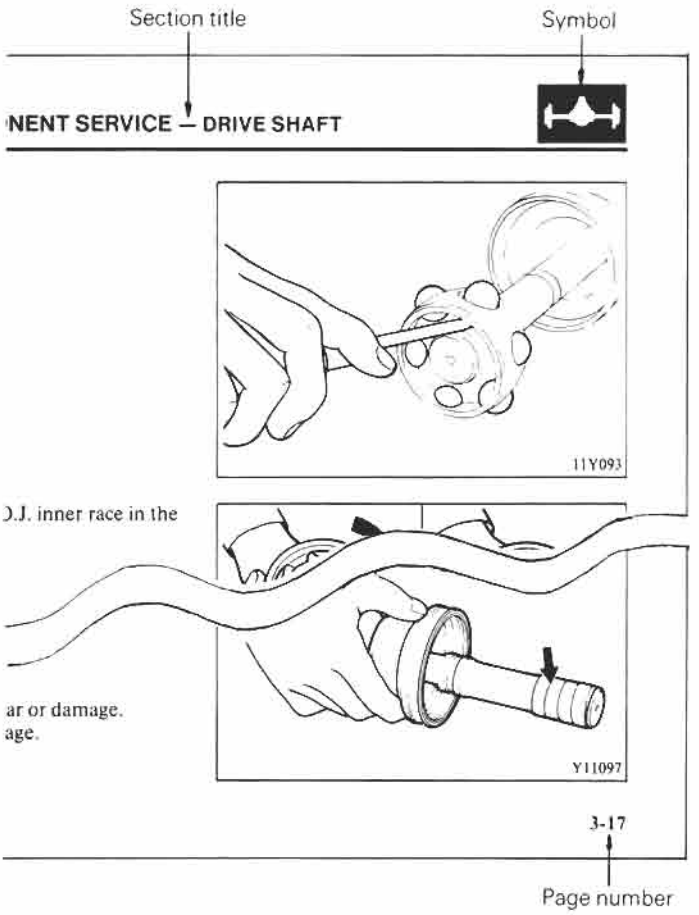
All page numbers consist of two sets of digits separated by a dash. The digits preceding the dash identify the number of the group. The digits following the dash represent the consecutive page number within the group. The page numbers can be found on the lower left or right of each page.

TEXT

1. This manual contains essential procedures for removal, disassembly, inspection, reassembly and installation. For reassembly and installation, reverse the order of disassembly and removal procedures respectively, paying attention to the key points.
2. Unless otherwise specified, each service procedure covers all models. Procedures covering specific models are identified by the model codes, destination or similar designation. A description of these designations is covered in this unit under "VEHICLE IDENTIFICATION".

ILLUSTRATIONS

Illustrations are placed abreast the text.
If two or more texts are paired with one illustration, the illustration number at lower right corner of the illustration is given in ( ) at the end of the more pertinent text for reference.



DEFINITION OF TERMS

Standard Dimension or Value

Design dimensions or values or finish dimensions after adjustment of part.

Service Limit

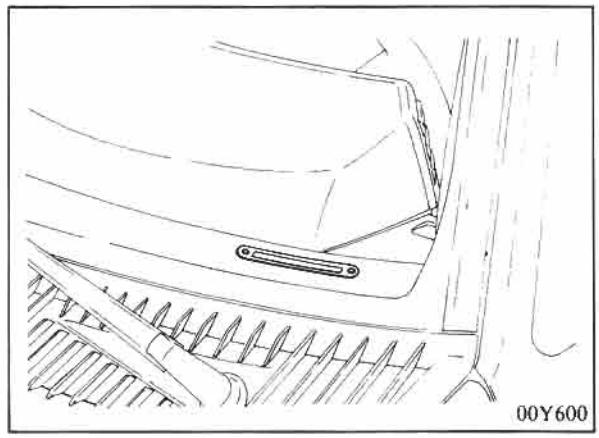
The allowable limitation of wear, bends, deformation or other damage which restricts the use of parts due to poor performance or insufficient strength.

Repair Limit

The limitation of wear, deterioration or functional decline of parts at which correction or adjustment is required to maintain their performance in use.

VEHICLE IDENTIFICATION NUMBER LOCATION

The vehicle identification number (V.I.N.) is located on a plate attached to the left top side of the instrument panel and visible through the windshield.



VEHICLE IDENTIFICATION CODE CHART PLATE

All vehicle identification numbers contain 17 digits. The vehicle number is a code which tells country, make, vehicle type, etc.

1st Digit	2nd Digit	3rd Digit	4th Digit	5th Digit	6th Digit	7th Digit	8th Digit	9th Digit	10th Digit	11th Digit	12th Digit	13th to 17th Digits
Country	Make	Vehicle type	Others	Line	Series	Body	Engine	*Check digits	Model year	Plant	Trans-mission	Serial number
J– Japan	B– Dodge P– Plymouth	3– Passenger car	B– Manual seat belt	C– CONQUEST	4– High	4– 2-door hatch-back	H– 2.6 liters (155.9 C.I.D.) with turbo-charger	0 1 2 3 . . . 9 X	E– 1984 year	Z– Okazaki plant	4– 5-speed M/T 49 states 5– 5-speed M/T California or 50 states 7– 4-speed A/T 49 states 8– 4-speed A/T California or 50 states	00001 to 99999

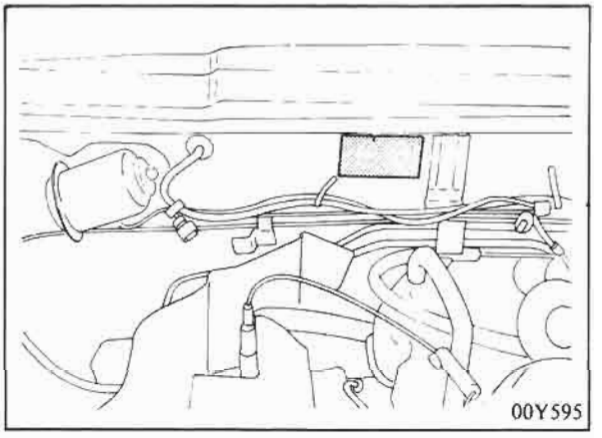
NOTE
* "Check digit" means a single number or letter X used to verify the accuracy of transcription of vehicle identification number.
M/T is an abbreviation for manual transmission.
A/T is an abbreviation for automatic transmission.

VEHICLE IDENTIFICATION NUMBER LIST

V.I.N. (except sequence number)	Brand (Package)	Destination	Engine displacement	Models code
JB3BC44H□EZ4	Dodge	Federal	2.555 liters (155.9 C.I.D.)	A187AMNUL2
JB3BC44H□EZ5		California		A187AMNUL7
JB3BC44H□EZ7		Federal		A187AMRUL2
JB3BC44H□EZ8		California		A187AMRUL7
JB3BC44H□EZ4		Federal		A187AMNSL2
JB3BC44H□EZ5		California		A187AMNSL7
JB3BC44H□EZ7		Federal		A187AMRSL2
JB3BC44H□EZ8		California		A187AMRSL7
JP3BC44H□EZ4	Plymouth	Federal	2.555 liters (155.9 C.I.D.)	A187AMNUL4
JP3BC44H□EZ5		California		A187AMNUL9
JP3BC44H□EZ7		Federal		A187AMRUL4
JP3BC44H□EZ8		California		A187AMRUL9
JP3BC44H□EZ4		Federal		A187AMNSL4
JP3BC44H□EZ5		California		A187AMNSL9
JP3BC44H□EZ7		Federal		A187AMRSL4
JP3BC44H□EZ8		California		A187AMRSL9

VEHICLE INFORMATION CODE PLATE

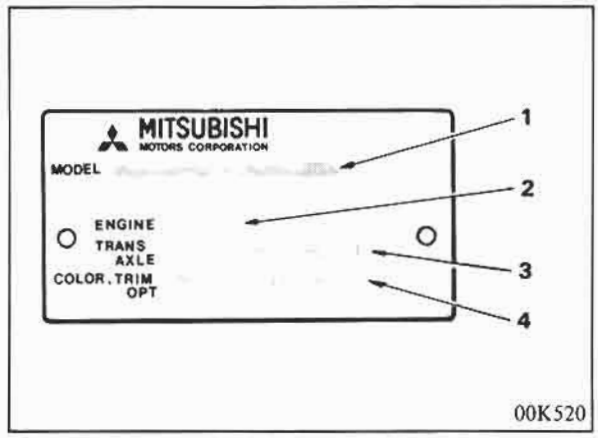
Vehicle information code plate is riveted onto the firewall in the engine compartment.
The plate shows model code, engine model, transmission model, final gear ratio, and body color code.



1. MODEL — A187AMNSL2
   - Model series
   - Vehicle model
2. ENGINE — G54B
   - Engine model
3. TRANS AXLE — KM132□3545
   - Final gear ratio
   - Blank
   - Transmission model
4. COLOR, TRIM OPT — B71
   - Monotone exterior color code

   H35H80H39
   - Two-tone color code
   - Exterior code

Two-tone exterior is shown by the exterior code followed by the two color codes.



CHASSIS NUMBER

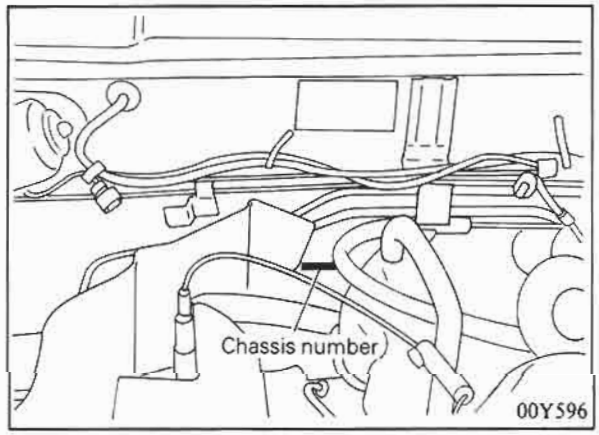
Stamping Location

The chassis number is stamped on the top center of the firewall located in the engine compartment.

Chassis Number Code Chart

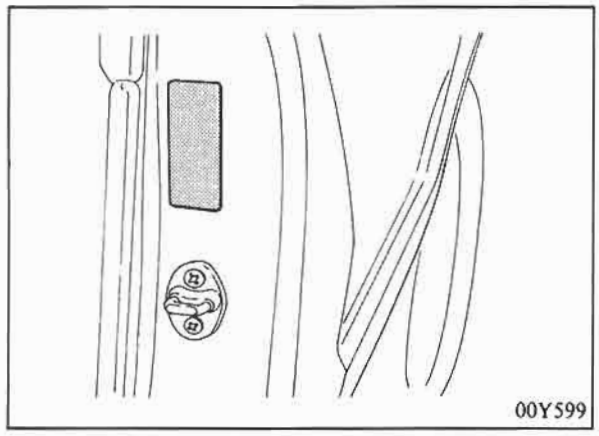
A 1 8 7 M E Z 4 0 0 0 0 1

Vehicle line	Engine displacement	Body type	
A18– CONQUEST	7– 2.555 liters (155.9 C.I.D.)	M– 2-door Hatchback	Refer to 10th thru 17th digits of V.I.N. plate



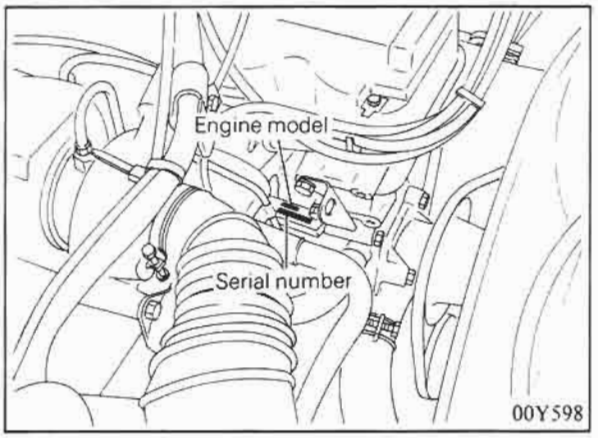
VEHICLE SAFETY CERTIFICATION LABEL

The vehicle safety certification label is attached to face of left door pillar. (00Y599)
This label indicates the month and year of manufacture, Gross Vehicle Weight Rating (G.V.W.R.) front, Gross Axle Weight Rating (G.A.W.R.) rear and Vehicle Identification Number (V.I.N.).



ENGINE MODEL STAMPING

The engine model number is stamped at the right front side on the top edge of the cylinder block as shown in the following:



Engine model	Engine displacement
G54B	2.555 liters (155.9 C.I.D.)

The engine serial number is stamped near the engine model number, and the serial number cycles, as shown below.

Engine serial number	Number cycling
AA0201 to YY9999	AA0201 ——→ AA9999 AB0001 ——→ AY9999 BA0001 ——→ YY9999

ENGINE TRANSMISSION MODEL

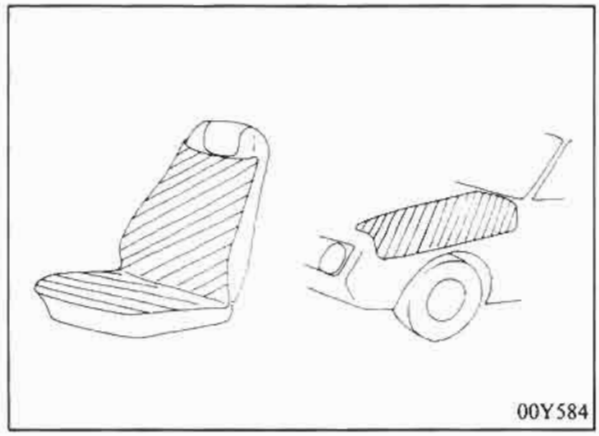
Vehicle model	Engine-transmission model	Transmission model
A187AMNUL A187AMNSL	G54B-1-J1U	KM132-B-CNUL
A187AMRUL A187AMRSL	G54B-1-R0K	JM600

BODY COLOR CODE

Exterior code	Body color
Monotone	
B71	Blue (Metallic)
H39	Dark gray (Metallic)
H80	Silver (Metallic)
K16	Gold
R49	Red (Metallic)
X15	Black
Two-tone	
H35H80H39	Dark gray (Metallic)/ Silver (Metallic)
W59W42K16	White/Gold
X52X15K16	Black/Gold

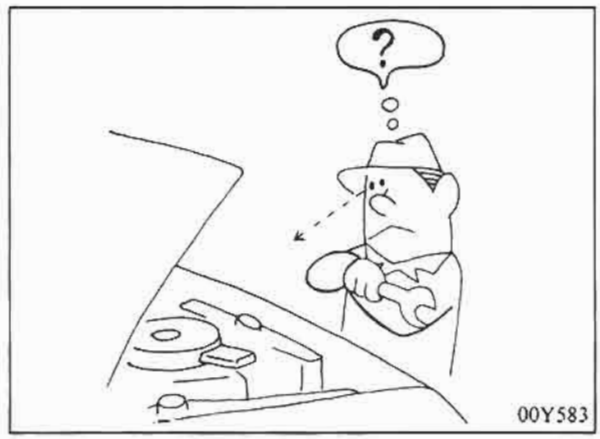
PROTECTING THE VEHICLE

If there is a likelihood of damaging painted or interior parts during service operations, protect them with suitable covers (such as seat covers, etc.).



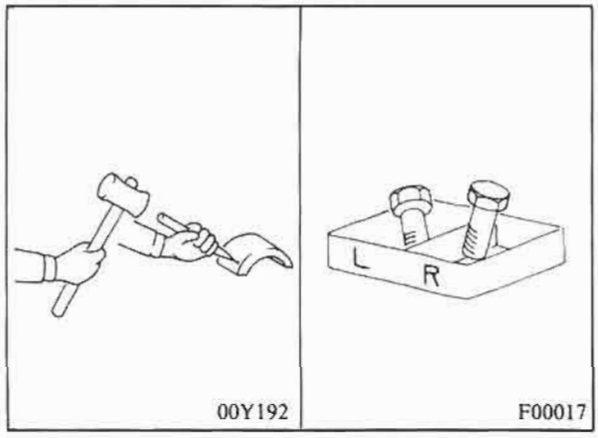
REMOVAL AND DISASSEMBLY

When checking a malfunction, find the cause of the problem. If it is determined that removal and/or disassembly is necessary, perform the work by following the procedures contained in this Service Manual.



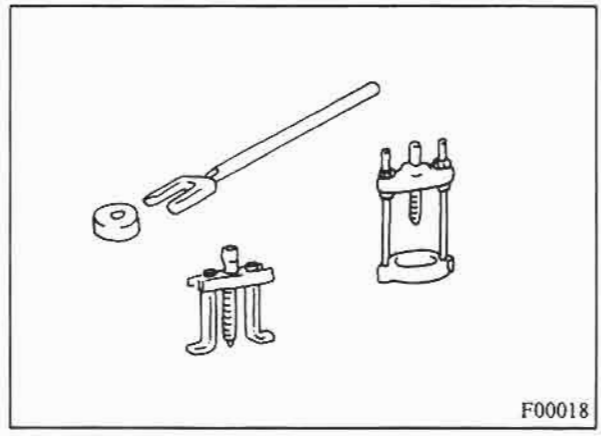
If punch marks or mating marks are made to avoid error in assembly and facilitate the assembly work, be sure to make them in locations which will have no detrimental effect on performance and/or appearances.
If an area having many parts, similar parts, and/or parts which are symmetrical right and left is disassembled, be sure to arrange the parts so that they do not become mixed during the assembly process.

1. Arrange the parts removed in the proper order.
2. Determine which parts are to be reused and which are to be replaced.
3. If bolts, nuts, etc., are to be replaced, be sure to use only the exact size specified.



SPECIAL TOOLS

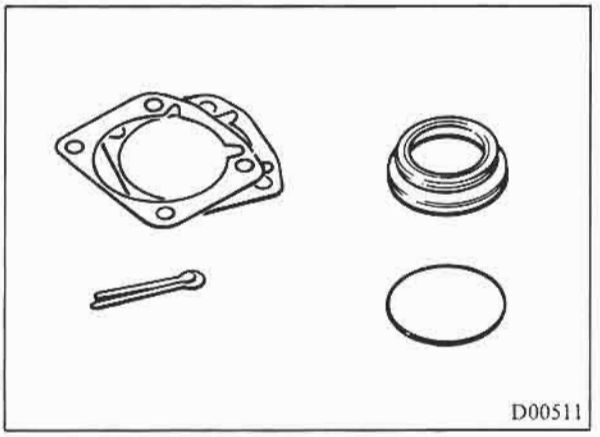
If other tools are substituted for the special tools to do service or repair work, there is the danger that vehicle parts might be damaged, or the mechanic might be injured; therefore, be sure to use the special tools whenever doing any work for which the use of a special tool is specified.



PARTS TO BE REPLACED

If any of the following parts are removed, they must be replaced with new parts.

1. Oil seals
2. Gaskets
3. Packings
4. O-rings
5. Lock washers
6. Cotter pins
7. Self-locking nuts

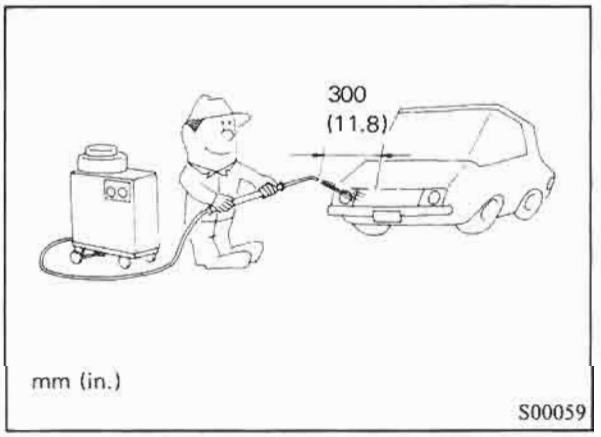


PARTS

When replacing parts, use Mopar genuine parts.

VEHICLE WASHING

If high-pressure car-washing equipment or steam car-washing equipment is used to wash the vehicle, be sure to maintain the spray nozzle at a distance of at least 300 mm (11.8 in.) from any plastic parts and all opening parts (doors, luggage compartment, sunroof, etc.).

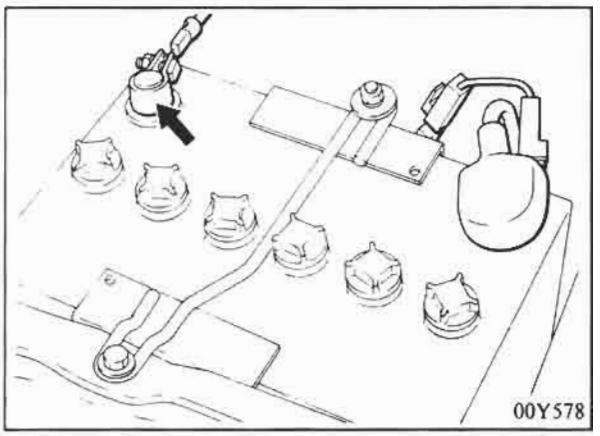


SERVICING THE ELECTRICAL SYSTEM

When servicing the electrical system, disconnect the negative cable terminal from of the battery.

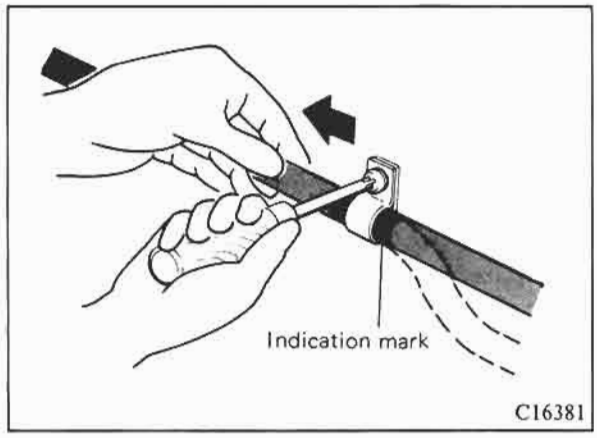
Caution

Before connecting or disconnecting the negative cable, be sure to turn off the ignition switch and the lighting switch. (If this is not done, there is the possibility of the semiconductor parts being damaged.)

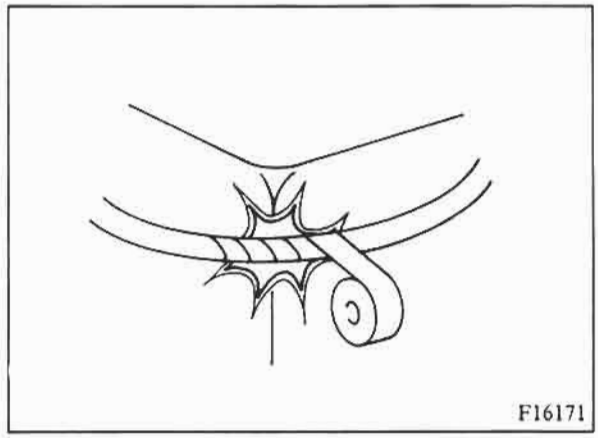


WIRING HARNESS

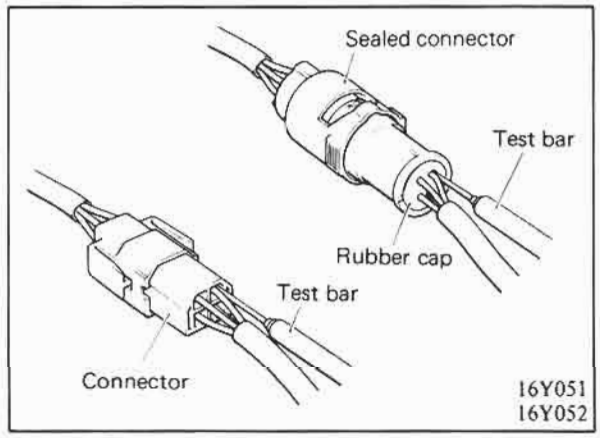
1. Secure the wiring harnesses by using clamps so that there is no slack. However, for any harness which passes to the engine or other vibrating parts of the vehicle, allow some slack within a range that does not allow the engine vibrations to cause the harness to come into contact with any of the surrounding parts. Then secure the harness by using a clamp.
   In addition, if a mounting indication mark (yellow tape) is on a harness, secure the indication mark in the specified location. (C16381)



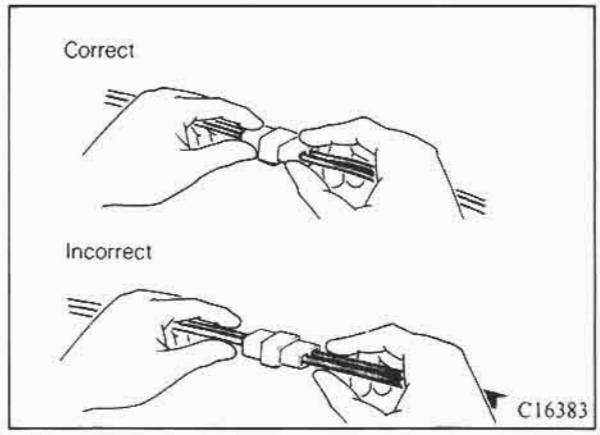
2. If any section of a wiring harness interferes with the edge of a part, or a corner, wrap the section of the harness with tape or something similar in order to protect it from damage.



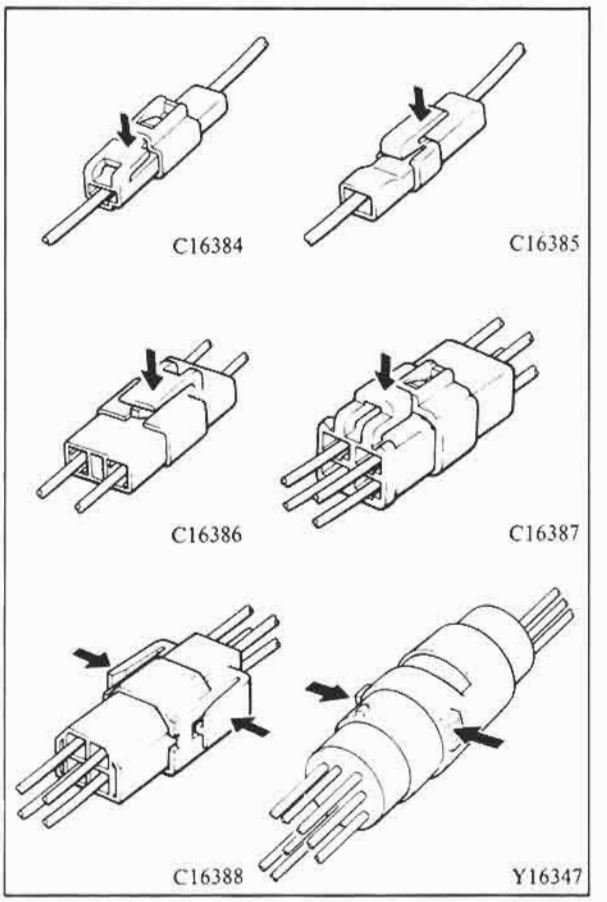
3. When using a circuit tester to perform continuity or voltage checks on connector terminals, insert the test bar from the harness side.
   If the connector is a sealed connector, insert the test probe in the through hole in the rubber cap for the electrical wires, being careful not to damage the wire insulation. Continue to insert the tester probes until it makes contact with the terminal.



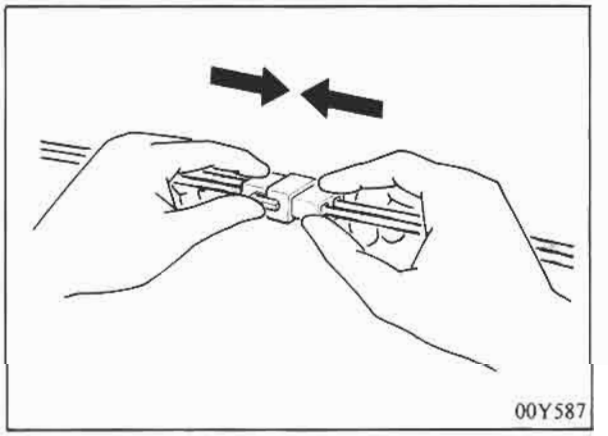
4. When disconnecting a connector, be sure to pull only the connector, not the harness.



5. Disconnect connectors which have catches by pressing in the direction indicated by the arrows in the illustration.

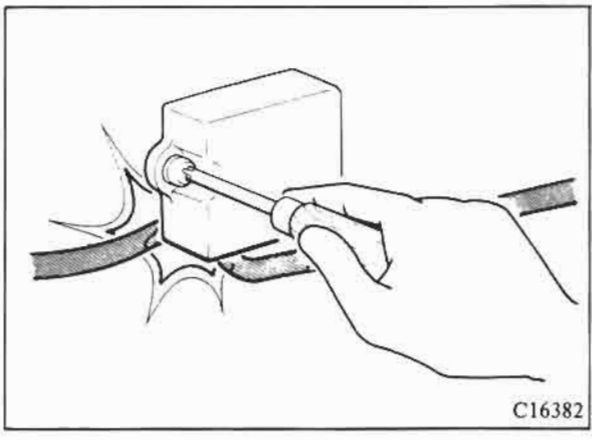


6. Connect connectors which have catches by inserting the connectors until they snap.

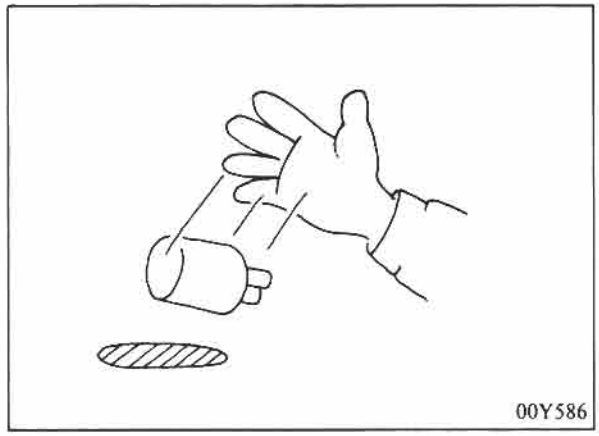


ELECTRICAL COMPONENTS

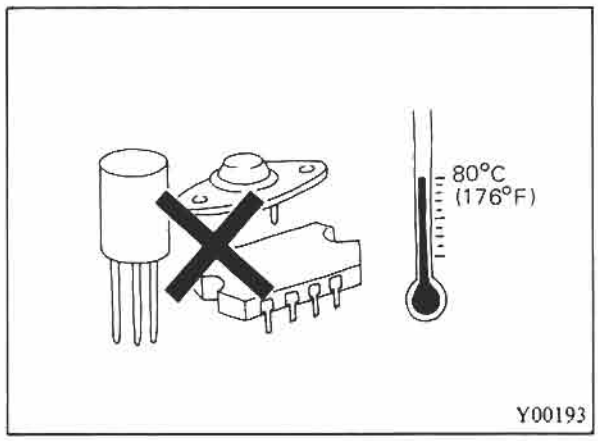
1. When installing any of the vehicle parts, be careful not to pinch or damage any of the wiring harnesses.



2. Sensors, relays, etc. are sensitive to strong impacts. Handle them with care so that they are not dropped or mishandled.

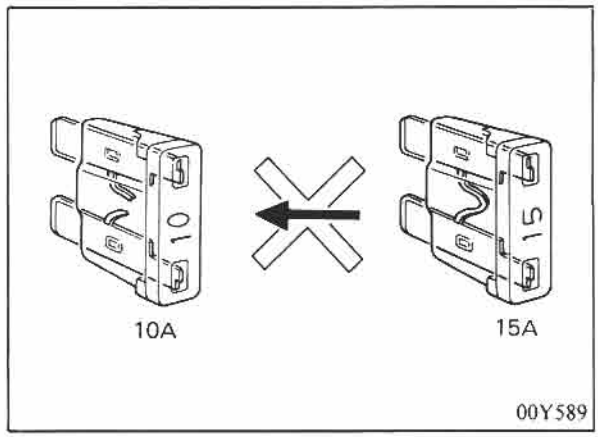


3. The electronic parts used for relays, etc. are sensitive to heat. If any service which causes a temperature of 80°C (176°F) or more is performed, remove the part or parts in question before carrying out the service.



FUSES AND FUSIBLE LINK

1. If a burned-out fuse is to be replaced, be sure to use only a fuse of the specified capacity. If a fuse of a capacity larger than that specified is used, parts may be damaged and the circuit may not be protected adequately.



2. If additional optional equipment is to be installed in the vehicle, follow the procedure listed in the appropriate instruction manual; however, be sure to pay careful attention to the following points:
   (1) In order to avoid overloading the wiring, take the electrical current load of the optional equipment into consideration, and determine the appropriate wire size.
   (2) As much as possible, route the wiring through the existing harnesses.
   (3) If an ammeter or similar instrument is to be connected to a live-wire circuit, use tape to protect the wire, use a clamp to secure the wire, and make sure that there is no contact with any other parts.
   (4) Be sure to provide a fuse for the load circuit of the optional equipment.

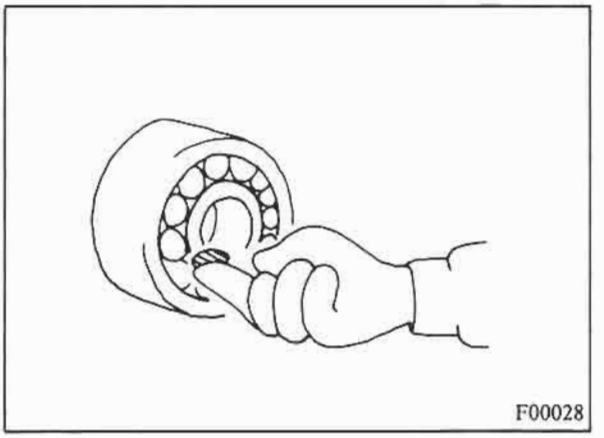
Nominal size	SAE gauge No.	Permissible current	
		In engine compartment	Other areas
0.3 mm²	AWG 22	—	5A
0.5 mm²	AWG 20	7A	13A
0.85 mm²	AWG 18	9A	17A
1.25 mm²	AWG 16	12A	22A
2.0 mm²	AWG 14	16A	30A
3.0 mm²	AWG 12	21A	40A
5.0 mm²	AWG 10	31A	54A

TUBES AND OTHER RUBBER PARTS

Be careful to avoid spilling any gasoline, oil, etc., because if it adheres to any tubes or other rubber parts, they might be adversely affected.

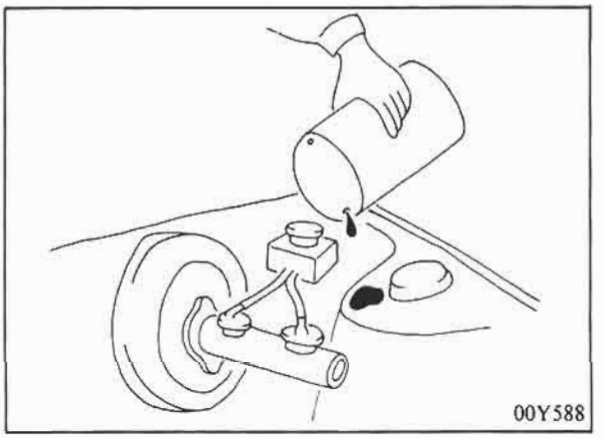
LUBRICANTS

In accordance with the instructions in this Service Manual, apply the specified lubricants in the specified locations during assembly and installation.



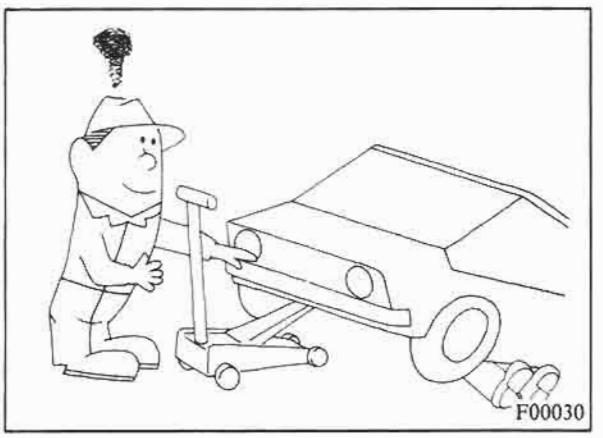
BRAKE FLUID

Be careful to avoid spilling any brake fluid, because, if it adheres to the vehicle body, the paint coat might be discolored.



DOING SERVICE WORK IN GROUPS OF TWO OR MORE MECHANICS

If the service work is to be done by two or more mechanics working together, all the mechanics involved should take safety into consideration while they work.



NOTE ON INSTALLATION OF RADIO EQUIPMENT

The computer of the electronic control system has been designed so that external radio waves will not interfere with its operation.
However, if antenna or cable of amateur transceiver etc. is routed near the computers, it may affect the operation of the computers, even if the output of the transceiver is no more than 10W.
To protect each of the computers from interference by CB radio (transmitter, transceiver, etc.), the following should be observed.

1. Install the antenna on the roof or rear bumper.

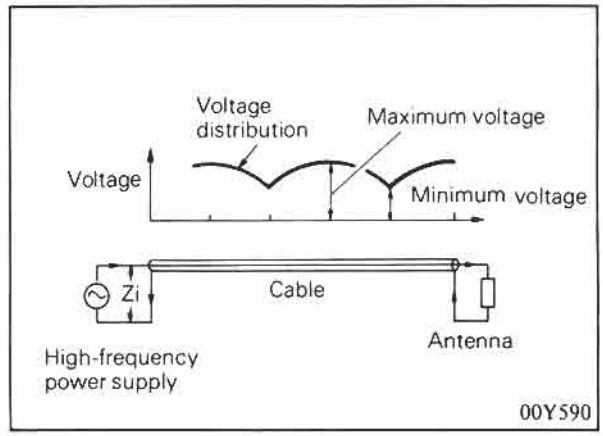
Note: (×) Available (–) partially not available

	Recommended antenna position		Position of computer installation
	Roof	Rear bumper	
ECI system	×	×	Cowl side (on driver's side)
Rear brake back-up control system	×	–	Right side of trunk room
Speed control system	×	×	Left side of rear seat

2. Because radio waves are emitted from the coaxial cable of the antenna, keep it 200 mm (7.9 in.) away from the computers and the wiring harness. If the cable must cross the wiring harness, route it so that it runs at right angles to the wiring harness.
3. The antenna and the cable should be well matched, and the standing-wave ratio* should be kept low.

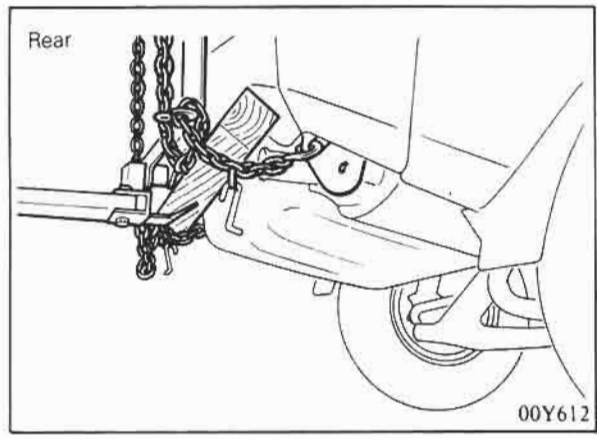
***Standing-wave ratio**

If an antenna and a cable having different impedances are connected, the input impedance Zi will vary in accordance with the length of the cable and the frequency of the transmitter, and the voltage distribution will also vary in accordance with the location.
The ratio between this maximum voltage and minimum voltage is called the standing-wave ratio. It can also be represented by the ratio between the impedances of the antenna and the cable.
The amount of radio waves emitted from the cable increases as the standing-wave ratio increases, and this increases the possibility of the electronic components being adversely affected.



4. A CB radio having a large output should not be installed in the vehicle.
5. After installation of radio equipment, perform the following test and make sure that there is no abnormality.
   (a) On ECI system equipped cars, run the engine at idle, broadcast from the radio equipment and make sure that the engine is not affected.
   (b) On rear brake lock-up control system equipped cars, jack up and rotate the rear wheels, broadcast from the radio equipment and make sure that abnormal lock does not occur in braking.
   (c) On speed control system equipped cars, set the car speed at about 50 km per hour (31 mph) by speed control system, broadcast from the radio equipment and make sure that the car speed does not change.

WRECKER TOWING



1. The CONQUEST can be only towed from the rear with conventional sling-type equipment and tow chain with the grab hook.
2. If a vehicle is towed from the front, use a tow dolly.
3. A lumber spacer (4" × 4" × 55" wood beam) should be placed on the under side of the bumper.
   Then, grab hook is attached to the tie-down bracket.
4. A safety chain system must be used. This system must be completely independent of the primary lifting and towing attachment. Care must be taken in the installation of safety chains to insure they do not cause damage to bumper, painted surfaces or lights.

Lifting — Ground Clearance

Towed vehicle should be raised until lifted wheels are a minimum of 10 cm (4 in.) from the ground.
Be sure there is adequate ground clearance at the opposite end of the vehicle, especially when towing over rough terrain or when crossing sharp rises such as curbs. If necessary, ground clearance can be increased by removing the wheels from the lifted end of the disabled vehicle and carrying the lifted end closer to the ground. A 20 cm (8 in.) ground clearance must be maintained between brake discs and ground.

Rear Towing Pickup

Before towing a vehicle from the rear, unlock the steering wheel with the ignition key. Then secure the steering wheel with a steering wheel clamping device, designed for towing service. When the ignition key is not available, do not tow from the rear.

Safety Precautions

The following precautions should be taken when towing the vehicle.

1. Remove exhaust tips and any other optional equipment, that interface with the towing sling. Padding (heavy cloth or carpeting) should be placed between the towing sling cross bar and any painted surfaces, and bumper surfaces.
2. DO NOT LIFT OR TOW THE VEHICLE BY ATTACHING TO OR WRAPPING AROUND THE URETHANE BUMPER.
3. A safety chain system completely independent of the primary lifting and towing attachment must be used.
4. Any loose or protruding parts of damaged vehicle such as hoods, doors, fenders, trim, etc., should be secured prior to moving the vehicle.
5. Operator should refrain from going under a vehicle such as hood, doors, fenders, trim, etc., unless the vehicle is adequately supported by safety stands.
6. Never allow passengers to ride in a towed vehicle.
7. State and local rules and regulations must be followed when towing a vehicle.

HOISTING

Post Type

Special care should be taken when raising the vehicle on a frame contact type hoist. The hoist must be equipped with the proper adapters in order to support the vehicle at the proper locations. (Next page)
Conventional hydraulic hoists may be used after determining that the adapter plates will make firm contact with the front/rear crossmembers.

Floor Jack

A regular floor jack may be used under the front/rear crossmembers.

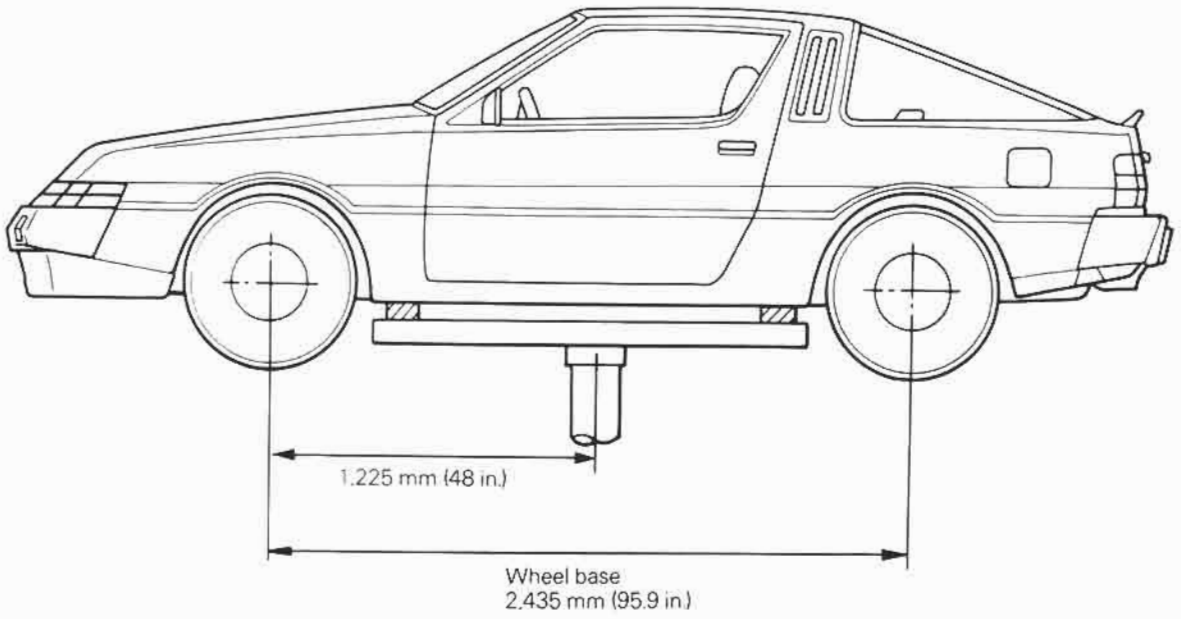
Cautions

1. **A floor jack must never be used on any part of the underbody.**
2. **Do not attempt to raise one entire side of the vehicle by placing a jack midway between front and rear wheels. This practice may result in permanent damage to the body.**

Emergency Jacking

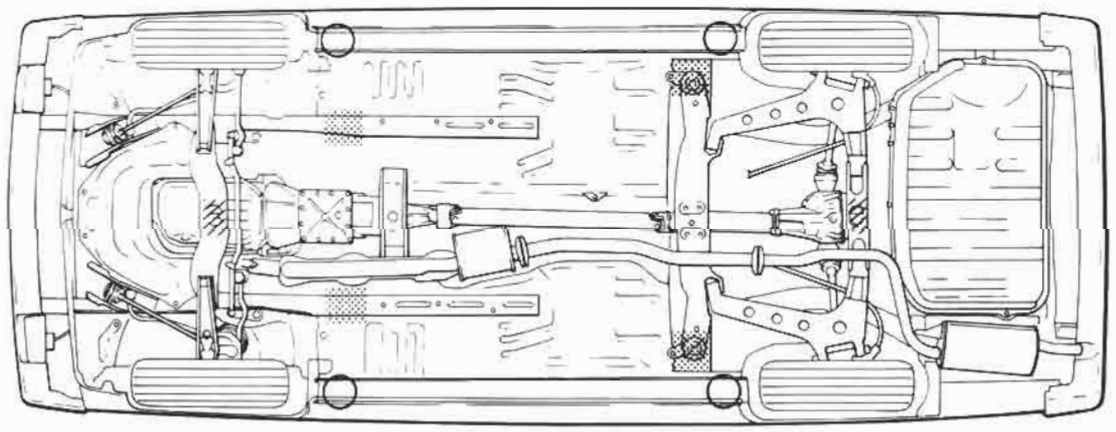
Jack receptacles are located at the body sills to accept the scissors jack supplied with the vehicle for emergency road service. Always block opposite wheels and jack on level surface.

Frame Contact Support Location



00Y625

Lifting, Jacking Support Location

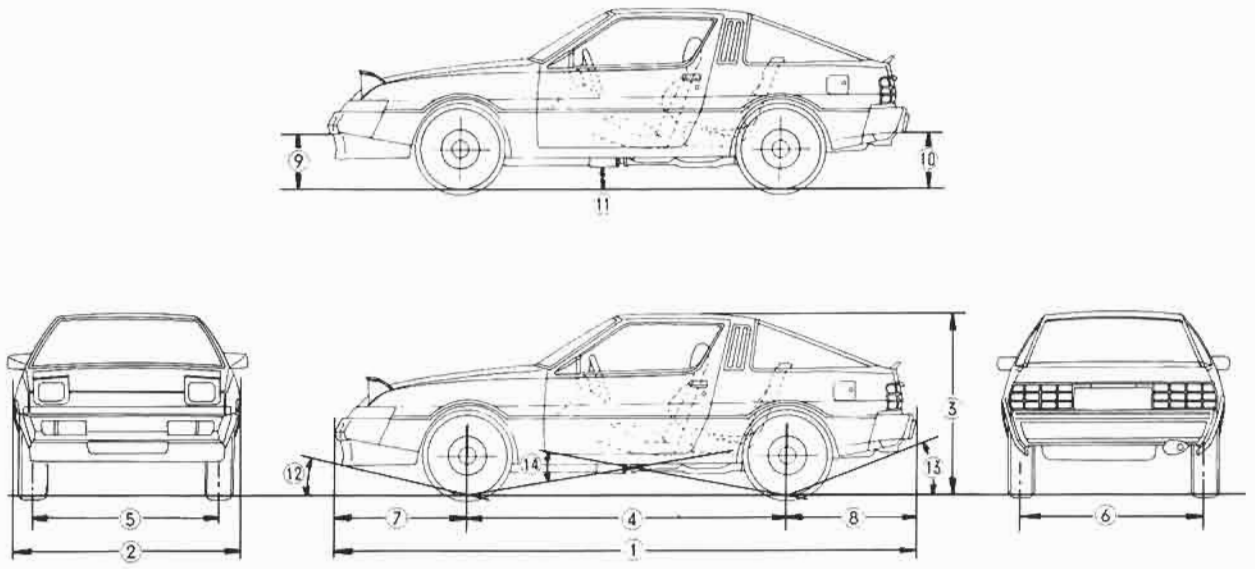


Frame contact hoist

Floor jack

Twin post hoist or scissors jack (emergency) locations

00Y196



00Y626

Description			H model	H model (Technica package)
Vehicle dimensions mm (in.)				
Overall length		①	4,400 (173.2)	
Overall width		②	1,685 (66.3)	
Overall height		③	1,275 (50.2)	
Wheel base		④	2,435 (95.9)	
Tread	Front	⑤	1,395 (54.9)	
	Rear	⑥	1,400 (55.1)	
Overhang	Front	⑦	970 (38.2)	
	Rear	⑧	995 (39.2)	
Height at curb mass (wt.)				
Front bumper to ground		⑨	350 (13.8)	
Rear bumper to ground		⑩	300 (11.8)	
Minimum running ground clearance		⑪	115 (4.5)	
Angle of approach		⑫	18°	
Angle of departure		⑬	19°	
Ramp breakover angle		⑭	12°	
Vehicle weights kg (lbs.)				
Curb weight			1,271 (2,802) – M/T 1,304 (2,875) – A/T	1,313 (2,895) – M/T 1,354 (2,985) – A/T
Gross vehicle weight rating			1,786 (3,937)	
Gross axle weight rating	Front		861 (1,898)	
	Rear		925 (2,039)	
Seating capacity			5	

Description		H model	H model (Technica package)
Engine			
Model No.		G54B with turbo	
Type		In line OHC	
Number of cylinders		4	
Bore		91.1 mm (3.59 in.)	
Stroke		98.0 mm (3.86 in.)	
Piston displacement		2,555 cm³ (155.9 CID)	
Compression ratio		7.0	
Firing order		1–3–4–2	
Basic ignition timing		10° BTDC	
Manual transmission			
Model No.		KM132	
Type		5-speed manual	
Gear ratio	1st	3.369	
	2nd	2.035	
	3rd	1.360	
	4th	1.000	
	5th	0.856	
	Reverse	3.578	
Automatic transmission			
Model No.		L4N71B	
Type		4-speed automatic	
Gear ratio	1st	2.458	
	2nd	1.458	
	3rd	1.000	
	4th	0.686	
	Reverse	2.182	
Final drive gear ratio		3.545	
Clutch			
Type		Dry-single disc & diaphragm spring	

Description		H model	H model (Technica package)
Chassis			
Tire		P195/70R14 Radial (P215/60R15 Radial – Optional)	
Front suspension			
Type		Independent strut	
Spring constant		26 N/mm (148 lb./in.)	
Rear suspension			
Type		Independent strut	
Spring constant		22.7 N/mm (129 lb./in.)	
Brakes			
Type	Front	Disc	
	Rear	Disc	
Power steering			
Gear type		Integral type (Recirculating ball nut)	
Gear ratio		14.25 (Constant ratio gear)	
Fuel tank capacity		75 liters (19.8 U.S. gal./16.5 Imp.gal.)	

ENGLISH AND SI METRIC MEASURE

Cubic Centimetres to Inches:

When changing cubic centimetres to cubic inches, multiply cubic centimetres times .061 to obtain cubic inches, (C.C. x .061 = Cubic Inch).

Cubic Inches to Centimetres:

When changing cubic inches to cubic centimetres, multiply cubic inches times 16.39 to obtain cubic centimetres, (Cubic Inch x 16.39 = C.C.).

Litres to Cubic Inches:

When changing litres to cubic inches, multiply litres times 61.02 to obtain cubic inches, (Litres x 61.02 = Cubic Inch).

Cubic Inches to Litres:

When changing cubic inches to litres, multiply cubic inches times .01639 to obtain litres, (Cubic Inch x .01639 = Litres).

Cubic Centimetres to Litres:

When changing cubic centimetres to litres, divide by 1,000 simply by moving the decimal point three figures to the left.

Litres to Cubic Centimetres:

When changing litres to cubic centimetres, move the decimal point three figures to the right.

Miles to Kilometres:

When changing miles to kilometres, multiply miles *times 1.609 to obtain kilometres, (Miles x 1.609 =* Kilometres).

Kilometres to Miles:

When changing kilometres to miles, multiply kilometres times .6214 to obtain miles, (Kilometres x .6214 = Miles).

Pounds to Kilograms:

When changing pounds to kilograms, multiply pounds times .4536 to obtain kilograms, (Pounds x .4536 = Kilograms).

Kilograms to Pounds:

When changing kilograms to pounds, multiply kilograms times 2.2046 to obtain pounds, (Kilograms x 2.2046 = Pounds).

Pounds to Newtons:

When changing pounds to Newtons, multiply pounds times 4.4482 to obtain newtons, (Pounds x 4.4482 = Newtons)

Newtons to Pounds:

When changing newtons to pounds, multiply newtons times .2248 to obtain pounds, (Newtons x .2248 = Pounds).

Pounds-Feet to Newton Metres:

When changing pound-feet to newton metres, multiply pound-feet times 1.3558 to newton metres, (Pound-Feet x 1.3558 = Newton Metres).

Newton Metres to Pounds-Feet:

When changing newton metres to pounds-feet, multiply newton metres times .7376 to pounds-feet, (Newton Metres x .7376 = Pounds-Feet).

Pounds Per Square Inch to Kilopascals:

*When changing pounds per square inch to kilo*pascals, multiply pounds per square inch times 6.895 to kilopascals, (Pounds Per Square Inch x 6.895 = Kilopascals.).

Kilopascals to Pounds Per Square Inch:

When changing kilopascals to pounds per square inch, multiply kilopascals times .1450 to pounds per square inch, (Kilopascals x .1450 = Pounds Per Square Inch).

DIMENSION AND TEMPERATURE CONVERSION CHART

Inches	Decimals	Milli-metres	Inches to millimetres		Millimetres to inches		Fahrenheit & celsius			
			Inches	mm	mm	Inches	°F	°C	°C	°F
1/64	.015625	.3969	.0001	.00254	0.001	.000039	-20	-28.9	-30	-22
1/32	.03125	.7937	.0002	.00508	0.002	.000079	-15	-26.1	-28	-18.4
3/64	.046875	1.1906	.0003	.00762	0.003	.000118	-10	-23.3	-26	-14.8
1/16	.0625	1.5875	.0004	.01016	0.004	.000157	-5	-20.6	-24	-11.2
5/64	.078125	1.9844	.0005	.01270	0.005	.000197	0	-17.8	-22	-7.6
3/32	.09375	2.3812	.0006	.01524	0.006	.000236	1	-17.2	-20	-4
7/64	.109375	2.7781	.0007	.01778	0.007	.000276	2	-16.7	-18	-0.4
1/8	.125	3.1750	.0008	.02032	0.008	.000315	3	-16.1	-16	3.2
9/64	.140625	3.5719	.0009	.02286	0.009	.000354	4	-15.6	-14	6.8
5/32	.15625	3.9687	.001	.0254	0.01	.00039	5	-15.0	-12	10.4
11/64	.171875	4.3656	.002	.0508	0.02	.00079	10	-12.2	-10	14
3/16	.1875	4.7625	.003	.0762	0.03	.00118	15	-9.4	-8	17.6
13/64	.203125	5.1594	.004	.1016	0.04	.00157	20	-6.7	-6	21.2
7/32	.21875	5.5562	.005	.1270	0.05	.00197	25	-3.9	-4	24.8
15/64	.234375	5.9531	.006	.1524	0.06	.00236	30	-1.1	-2	28.4
1/4	.25	6.3500	.007	.1778	0.07	.00276	35	1.7	0	32
17/64	.265625	6.7469	.008	.2032	0.08	.00315	40	4.4	2	35.6
9/32	.28125	7.1437	.009	.2286	0.09	.00354	45	7.2	4	39.2
19/64	.296875	7.5406	.01	.254	0.1	.00394	50	10.0	6	42.8
5/16	.3125	7.9375	.02	.508	0.2	.00787	55	12.8	8	46.4
21/64	.328125	8.3344	.03	.762	0.3	.01181	60	15.6	10	50
11/32	.34375	8.7312	.04	1.016	0.4	.01575	65	18.3	12	53.6
23/64	.359375	9.1281	.05	1.270	0.5	.01969	70	21.1	14	57.2
3/8	.375	9.5250	.06	1.524	0.6	.02362	75	23.9	16	60.8
25/64	.390625	9.9219	.07	1.778	0.7	.02756	80	26.7	18	64.4
13/32	.40625	10.3187	.08	2.032	0.8	.03150	85	29.4	20	68
27/64	.421875	10.7156	.09	2.286	0.9	.03543	90	32.2	22	71.6
7/16	.4375	11.1125	1	2.54	1	.03937	95	35.0	24	75.2
29/64	.453125	11.5094	2	5.08	2	.07874	100	37.8	26	78.8
15/32	.46875	11.9062	3	7.62	3	.11811	105	40.6	28	82.4
31/64	.484375	12.3031	4	10.16	4	.15748	110	43.3	30	86
1/2	.5	12.7000	5	12.70	5	.19685	115	46.1	32	89.6
33/64	.515625	13.0969	6	15.24	6	.23622	120	48.9	34	93.2
17/32	.53125	13.4937	7	17.78	7	.27559	125	51.7	36	96.8
35/64	.546875	13.8906	8	20.32	8	.31496	130	54.4	38	100.4
9/16	.5625	14.2875	9	22.86	9	.35433	135	57.2	40	104
37/64	.578125	14.6844	1	25.4	10	.39370	140	60.0	42	107.6
19/32	.59375	15.0812	2	50.8	11	.43307	145	62.8	44	112.2
39/64	.609375	15.4781	3	76.2	12	.47244	150	65.6	46	114.8
5/8	.625	15.8750	4	101.6	13	.51181	155	68.3	48	118.4
41/64	.640625	16.2719	5	127.0	14	.55118	160	71.1	50	122
21/32	.65625	16.6687	6	152.4	15	.59055	165	73.9	52	125.6
43/64	.671875	17.0656	7	177.8	16	.62992	170	76.7	54	129.2
11/16	.6875	17.4625	8	203.2	17	.66929	175	79.4	56	132.8
45/64	.703125	17.8594	9	228.6	18	.70866	180	82.2	58	136.4
23/32	.71875	18.2562	10	254.0	19	.74803	185	85.0	60	140
47/64	.734375	18.6531	11	279.4	20	.78740	190	87.8	62	143.6
3/4	.75	19.0500	12	304.8	21	.82677	195	90.6	64	147.2
49/64	.765625	19.4469	13	330.2	22	.86614	200	93.3	66	150.8
25/32	.78125	19.8437	14	355.6	23	.90551	205	96.1	68	154.4
51/64	.796875	20.2406	15	381.0	24	.94488	210	98.9	70	158
13/16	.8125	20.6375	16	406.4	25	.98425	212	100.0	75	167
53/64	.828125	21.0344	17	431.8	26	1.02362	215	101.7	80	176
27/32	.84375	21.4312	18	457.2	27	1.06299	220	104.4	85	185
55/64	.859375	21.8281	19	482.6	28	1.10236	225	107.2	90	194
7/8	.875	22.2250	20	508.0	29	1.14173	230	110.0	95	203
57/64	.890625	22.6219	21	533.4	30	1.18110	235	112.8	100	212
29/32	.90625	23.0187	22	558.8	31	1.22047	240	115.6	105	221
59/64	.921875	23.4156	23	584.2	32	1.25984	245	118.3	110	230
15/16	.9375	23.8125	24	609.6	33	1.29921	250	121.1	115	239
61/64	.953125	24.2094	25	635.0	34	1.33858	255	123.9	120	248
31/32	.96875	24.6062	26	660.4	35	1.37795	260	126.6	125	257
63/64	.984375	25.0031	27	690.6	36	1.41732	265	129.4	130	266

CAPACITY CONVERSION TABLE

U.S.	Imperial	U.S.	Imperial	U.S.	Imperial
1/4	1/5	7	5-3/4	15	12-1/2
1/2	3/8	7-1/4	6	15-1/2	13
3/4	5/8	7-1/2	6-1/4	16	13-1/4
		7-3/4	6-1/2	16-1/2	13-3/4
1	3/4			16-3/4	14
1-1/4	1	8	6-3/4		
1-1/2	1-1/4	8-1/4	6-3/4	17	14-1/4
1-3/4	1-1/2	8-1/2	7	17-1/2	14-1/2
		8-3/4	7-1/4	18	15
2	1-3/4	9	7-1/2	18-1/2	15-1/2
2-1/4	1-3/4	9-1/4	7-3/4	19	15-3/4
2-1/2	2	9-1/2	8	19-1/2	16-1/4
2-3/4	2-1/4	9-3/4	8	20	16-3/4
				20-1/2	17
3	2-1/2	10	8-1/4		
3-1/4	2-3/4	10-1/4	8-1/2	21	17-1/2
3-1/2	3	10-1/2	8-3/4	21-1/2	18
3-3/4	3	10-3/4	9	22	18-1/4
				22-1/2	18-3/4
4	3-1/4	11	9-1/4	23	19-1/4
4-1/4	3-1/2	11-1/4	9-1/4	23-1/2	19-1/2
4-1/2	3-3/4	11-1/2	9-1/2	24	20
4-3/4	4	11-3/4	9-3/4	24-1/2	20-1/2
5	4-1/4	12	10	25	20-3/4
5-1/4	4-1/4	12-1/4	10-1/4	25-1/2	21-1/4
5-1/2	4-1/2	12-1/2	10-1/2	26	21-3/4
5-3/4	4-3/4	12-3/4	10-1/2	26-1/2	22
				27	22-1/2
6	5	13	10-3/4	27-1/2	23
6-1/4	5-1/4	13-1/2	11-1/4	28	23-1/4
6-1/2	5-1/2	14	11-3/4	29	24-1/4
6-3/4	5-1/2	14-1/2	12	30	25

CAPACITY CONVERSION U.S. GALLONS TO LITERS

Gallons	0	1	2	3	4	5	6	7	8	9
					Litres					
–	–	3.7854	7.5708	11.3560	15.1420	18.9270	22.7120	26.4980	30.2830	34.0690
10	37.854	41.640	45.425	49.210	52.996	56.781	60.567	64.352	68.137	71.923
20	75.708	79.494	83.279	87.064	90.850	94.635	98.421	102.210	105.990	109.781
30	113.56	117.35	121.13	124.92	128.70	132.49	136.27	140.06	143.85	147.63
40	151.42	155.20	158.99	162.77	166.56	170.34	174.13	177.91	181.70	185.49
50	189.27	193.06	196.84	200.63	204.41	208.20	211.98	215.77	219.55	223.34
60	227.12	230.91	234.70	238.48	242.27	246.05	249.84	253.62	257.41	261.19
70	264.98	268.76	272.55	276.33	280.12	283.91	287.69	291.48	295.26	299.05
80	302.83	306.62	310.40	314.19	317.97	321.76	325.55	329.33	333.12	336.90
90	340.69	344.47	348.26	352.04	355.83	359.61	363.40	367.18	370.97	374.76

Description	Torque Nm (ft-lbs.)				Remarks
Thread for general purposes (size x pitch) (mm)	Head mark (4)		Head mark (7)		
6 x 1.0	3.0 to 3.9	(2.2 to 2.9)	4.9 to 7.8	(3.6 to 5.8)	
8 x 1.25	7.9 to 12	(5.8 to 8.7)	13 to 19	(9.4 to 14)	
10 x 1.25	16 to 23	(12 to 17)	27 to 39	(20 to 29)	
12 x 1.25	29 to 43	(21 to 32)	47 to 72	(35 to 53)	
14 x 1.5	48 to 70	(35 to 52)	77 to 110	(57 to 85)	
16 x 1.5	67 to 100	(51 to 77)	130 to 160	(90 to 120)	
18 x 1.5	100 to 150	(74 to 110)	180 to 230	(130 to 170)	
20 x 1.5	150 to 190	(110 to 140)	160 to 320	(190 to 240)	
22 x 1.5	200 to 260	(150 to 190)	340 to 430	(250 to 320)	
24 x 1.5	260 to 320	(190 to 240)	420 to 550	(310 to 410)	
Taper thread for pipes (size)					
PT 1/8		7.9 to 12	(5.8 to 8.7)		Internal thread : Aluminum
		16 to 19	(12 to 14)		Internal thread : Cast iron
PT 1/4		19 to 30	(14 to 22)		Internal thread : Aluminum
		34 to 45	(25 to 33)		Internal thread : Cast iron
PT 3/8		39 to 54	(29 to 40)		Internal thread : Aluminum
		58 to 73	(43 to 54)		Internal thread : Cast iron
Taper thread for dry sealed pipes (size)					
NPTF 1/16		4.9 to 7.8	(3.6 to 5.8)		Internal thread : Aluminum
		7.9 to 12	(5.8 to 8.7)		Internal thread : Cast iron
NPTF 1/8		7.9 to 12	(5.8 to 8.7)		Internal thread : Aluminum
		16 to 19	(12 to 14)		Internal thread : Cast iron
NPTF 1/4		19 to 30	(14 to 22)		Internal thread : Aluminum
		34 to 45	(25 to 33)		Internal thread : Cast iron