

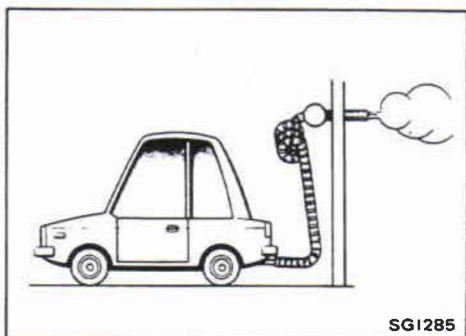
SECTION GI

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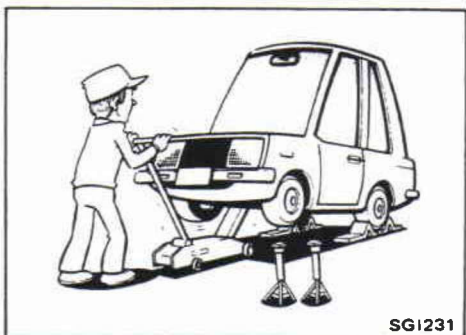
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PRECAUTIONS

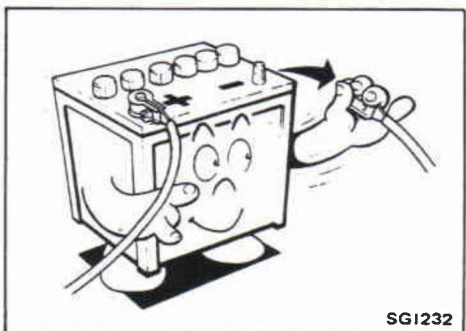
Observe the following precautions to ensure safe and proper servicing. These precautions are not described in each individual section.



1. Do not operate the engine for an extended period of time without proper exhaust ventilation. Keep the work area well ventilated and free of any inflammable materials. Special care should be taken when handling any inflammable or poisonous materials, such as gasoline, refrigerant gas, etc. When working in a pit or other enclosed area, be sure to properly ventilate the area before working with hazardous materials. Do not smoke while working on the vehicle.



2. Before jacking up the vehicle, apply wheel chocks or other tire blocks to the wheels to prevent the vehicle from moving. After jacking up the vehicle, support the vehicle weight with safety stands at the points designated for proper lifting and towing before working on the vehicle. These operations should be done on a level surface.
3. When removing a heavy component such as the engine or transaxle/transmission, be careful not to lose your balance and drop them. Also, do not allow them to strike adjacent parts, especially the brake tubes and master cylinder.

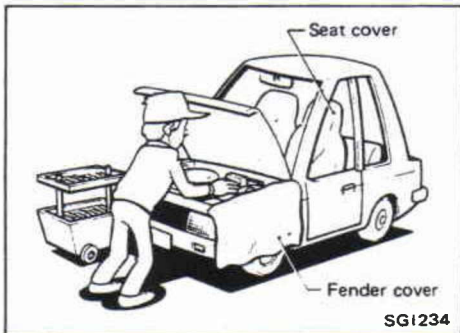


4. Before starting repairs which do not require battery power, always turn off the ignition switch, then disconnect the ground cable from the battery to prevent accidental short circuit.



5. To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe and muffler. Do not remove the radiator cap when the engine is hot.

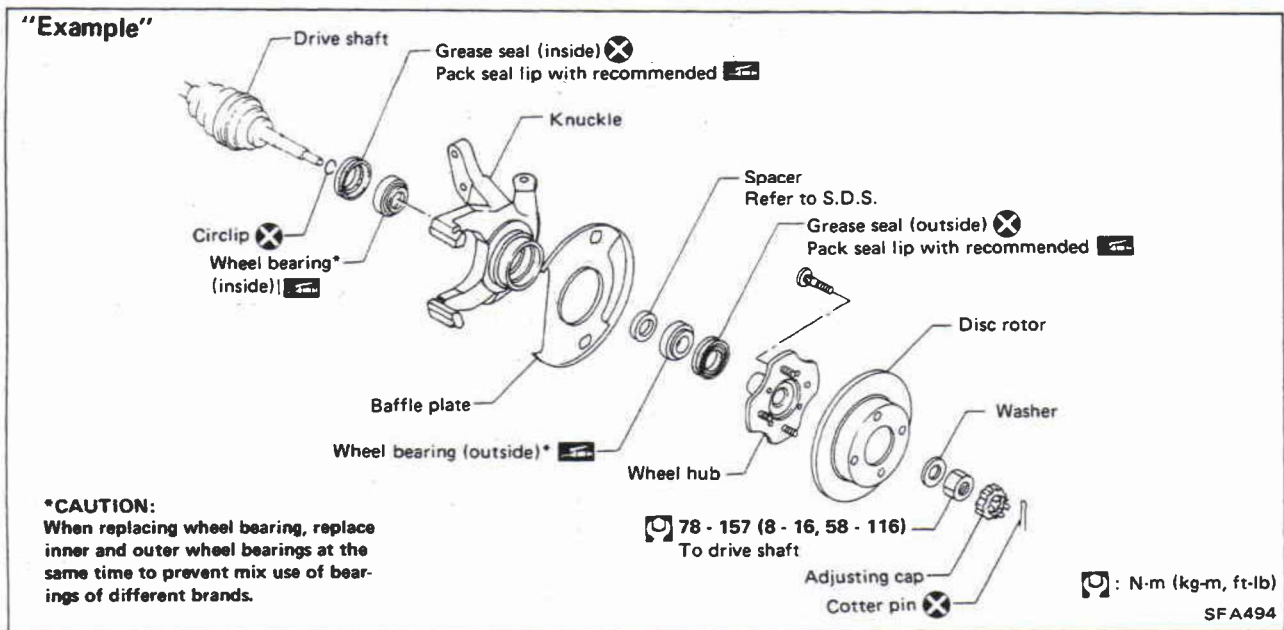
PRECAUTIONS



6. Before servicing the vehicle, protect fenders, upholstery and carpeting with appropriate covers.
Take caution that keys, buckles or buttons on your person do not scratch the paint.
7. Clean all disassembled parts in the designated liquid or solvent prior to inspection or assembly.
8. Replace oil seals, gaskets, packings, O-rings, locking washers, cotter pins, self-locking nuts, etc. with new ones.
9. Replace inner and outer races of tapered roller bearings and needle bearings as a set.
10. Arrange the disassembled parts in accordance with their assembled locations and sequence.
11. Do not touch the terminals of electrical components which use microcomputers (such as electronic control units).
Static electricity may damage internal electronic components.
12. After disconnecting vacuum or air hoses, attach a tag to indicate the proper connection.
13. Use only the lubricants specified in MA section.
14. Use approved bonding agent, sealants or their equivalents when required.
15. Use tools and recommended special tools where specified for safe and efficient service repairs.
16. When repairing the fuel, oil, water, vacuum or exhaust systems, check all affected lines for leaks.
17. Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.

HOW TO USE THIS MANUAL

1. **A QUICK REFERENCE INDEX**, a black tab (e.g. **FA**) is provided on the first page. You can quickly find the first page of each section by matching it to the section's black tab.
2. **THE CONTENTS** are listed on the first page of each section.
3. **THE TITLE** is indicated on the upper portion of each page and shows the part or system.
4. **THE PAGE NUMBER** of each section consists of two letters, which designate the particular section, and a number (e.g. "FA-5").
5. **THE LARGE ILLUSTRATION** is an exploded view (See below) and contains tightening torques, lubrication points and other information necessary to perform repairs.
The illustration should be used in reference to the service matters only. When ordering parts, refer to the appropriate **PARTS CATALOG**.



6. **THE SMALL ILLUSTRATION** shows the important steps such as inspection, use of special tools, knacks of work and hidden or tricky steps which are not shown in the previous large illustration. Assembly, inspection and adjustment procedures for the complicated units such as the automatic trans-axle or transmission, etc. are presented in a step-by-step format where necessary.
7. The followings **SYMBOLS AND ABBREVIATIONS** are used:

- : Tightening Torque
- : Should be lubricated with grease. Unless otherwise indicated, use recommended multi-purpose grease.
- : Should be lubricated with oil.
- : Sealing point
- : Checking point
- : Always replace after every disassembly.

- S.D.S.: Service Data and Specifications
- L.H., R.H.: Left-Hand, Right-Hand
- M/T: Manual Transaxle/Transmission
- A/T: Automatic Transaxle/Transmission
- Tool: Special Service Tools
- L.H.D., R.H.D.: Left-Hand drive models, Right-Hand drive models

HOW TO USE THIS MANUAL

8. The **UNIT** given in this manual are primarily expressed with the SI UNIT (International System of Unit), and alternately expressed in the metric system and in the yard/pound system.

“Example”

Tightening torque

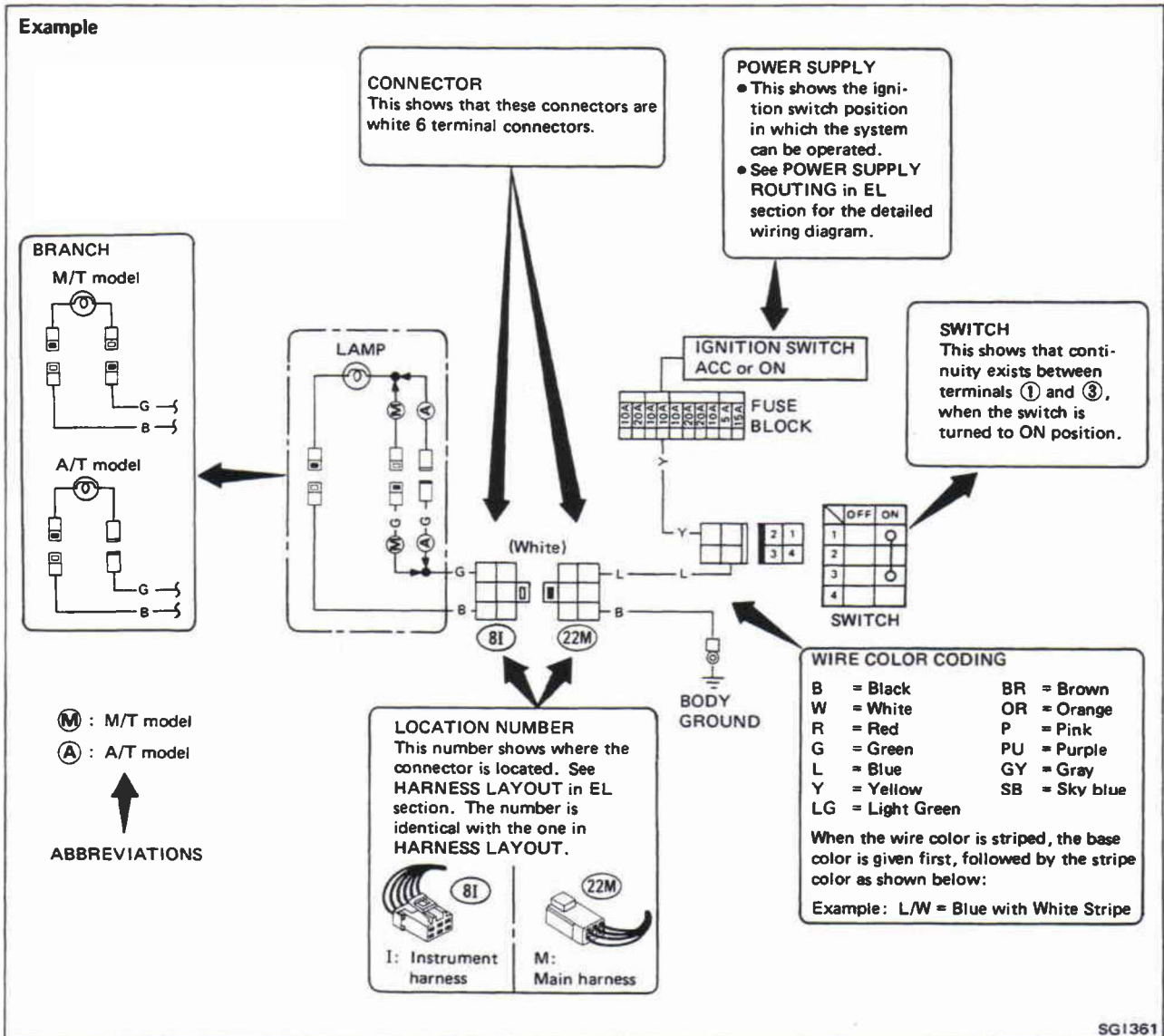
59 - 78 N·m (6.0 - 8.0 kg-m, 43 - 58 ft-lb)

9. **TROUBLE DIAGNOSES AND CORRECTIONS** are included in sections dealing with complicated components.
10. **SERVICE DATA AND SPECIFICATIONS** is contained at the end of each section for quick reference of data.
11. The captions **WARNING** and **CAUTION** warn you of steps that must be followed to prevent personal injury and/or damage to some part of the vehicle.

HOW TO READ WIRING DIAGRAMS

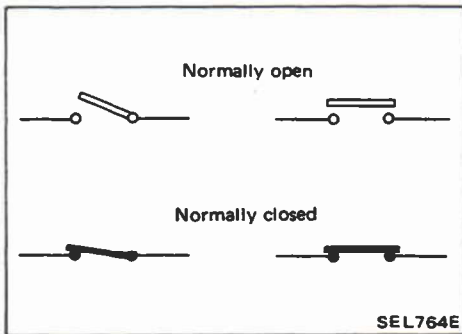
WIRING DIAGRAM

Symbols used in WIRING DIAGRAM are shown below.



SG1361

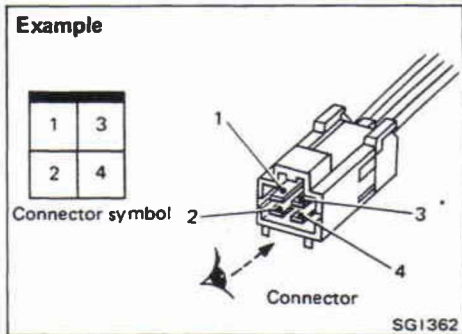
HOW TO READ WIRING DIAGRAMS



SWITCH POSITIONS

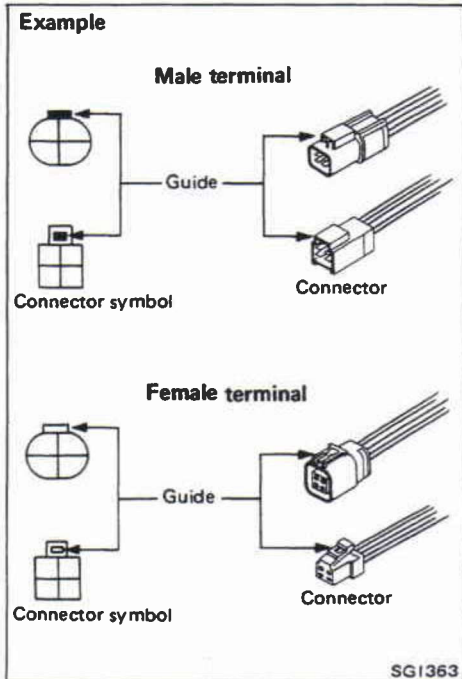
Wiring diagram switches are shown with the vehicle in the following condition:

- Ignition switch "OFF".
- Doors, hood and trunk lid/back door closed.
- Pedals are not depressed and parking brake is released.



CONNECTOR SYMBOLS

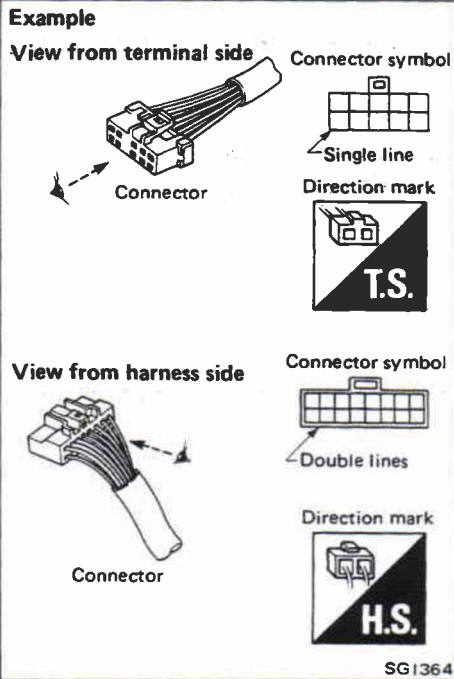
- All connector symbols in wiring diagrams are shown from the terminal side.



- Male and female terminals

Connector guides for male terminals are shown in black and female terminals in white in wiring diagrams.

HOW TO READ WIRING DIAGRAMS



DIRECTION MARK

A direction mark is shown to clarify the side of connector (terminal side or harness side).

Direction marks are mainly used in the illustrations indicating terminal inspection.



: View from terminal side . . . T.S.

- All connector symbols shown from the terminal side are enclosed by a single line.



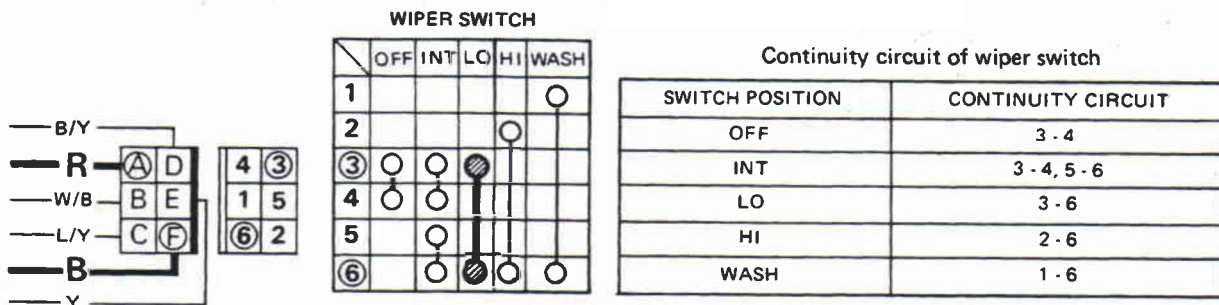
: View from harness side . . . H.S.

- All connector symbols shown from the harness side are enclosed by double lines.

MULTIPLE SWITCH

The continuity of the multiple switch is identified in the switch chart in wiring diagrams.

Example



Example: Wiper switch in LO position

Continuity circuit: Red wire - (A) terminal - (③) terminal - Wiper switch (● - ●) : LO) - (⑥) terminal - (F) terminal - Black wire

SG1365

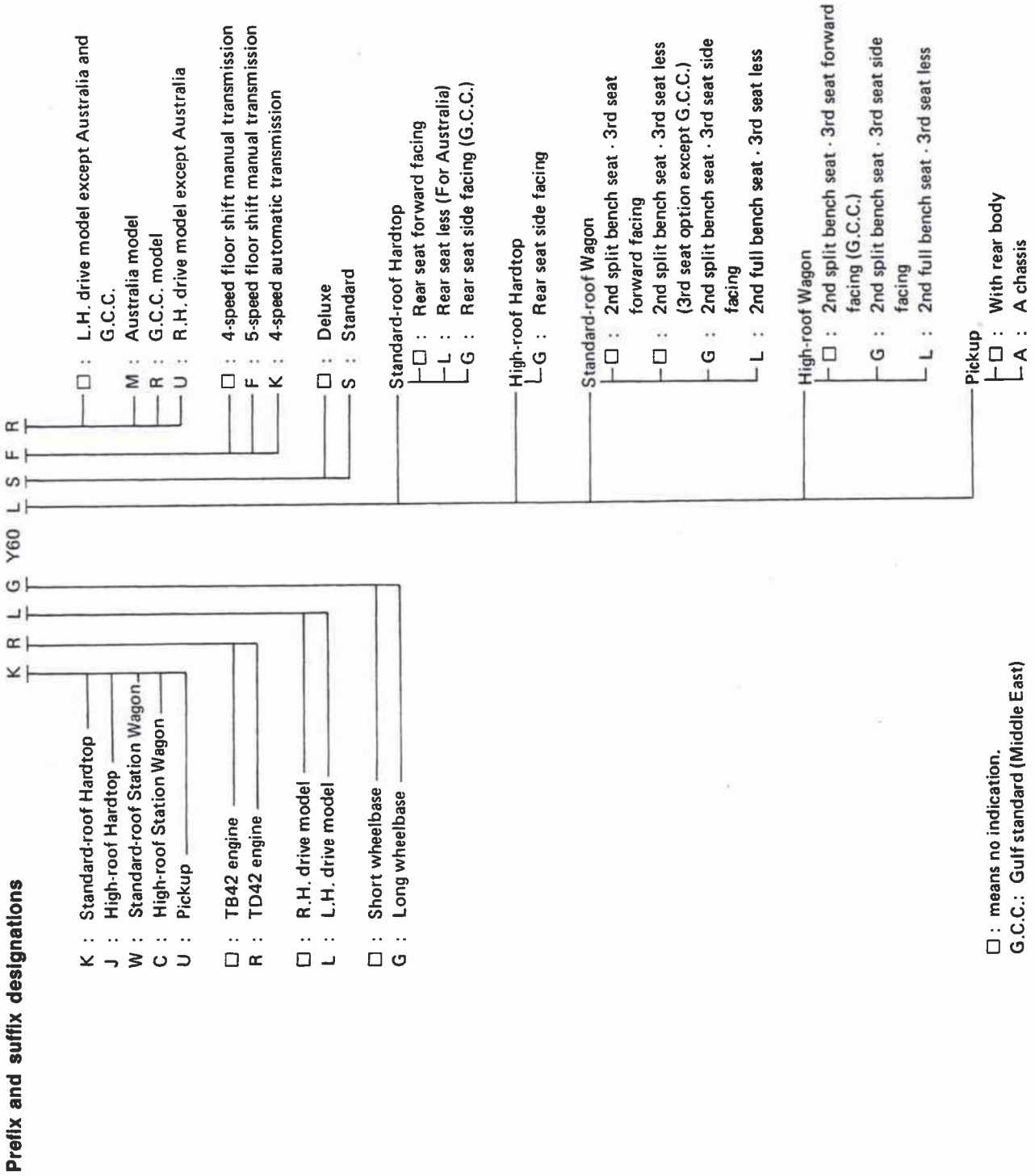
IDENTIFICATION INFORMATION

Model Variation (Cont'd)

Destination	Handle	Engine	Transmission	Grade	Model	Station Wagon				Pickup			
						2nd bench		High-roof		2nd bench		A chassis	
						center split bench 3rd less	full bench 3rd less	2nd center split bench 3rd side facing	2nd center split bench 3rd full bench 3rd less				
Gulf standard (Middle East)	L.H.	TB42	F55R50A	STD	STD	-	-	-	-	ULGY60SFR	-		
			F55R50A	DX	-	CLGY60FR	-	CLGY60GFR	-	-	-	-	
			RE4R03A	DX	-	-	-	CLGY60GKR	-	-	-	-	
	Except Gulf standard (Middle East) and Australia	L.H.	TB42	FN4R50A	STD	WLYG60S	WLYG60LS	-	CLGY60GS	CLGY60LS	ULGY60S	ULGY60AS	
				F55R50A	STD	-	-	-	-	-	-	ULGY60SF	ULGY60ASF
				F55R50A	DX	WLYG60F	-	-	CLGY60GF	-	-	-	-
		R.H.	TD42	FN4R50A	STD	WRLGY60S	WRLGY60LS	-	-	CRLGY60GS	CRLGY60LS	URLGY60S	URLGY60AS
				F55R50A	STD	-	-	-	-	-	-	URLGY60SF	URLGY60ASF
				F55R50A	DX	WRLGY60F	-	-	CRLGY60GF	-	-	-	-
	Australia	R.H.	TB42	FN4R50A	STD	WG60SU	WG60LSU	-	-	-	UGY60SU	UGY60ASU	
				F55R50A	STD	-	-	-	-	-	UGY60SFU	UGY60ASFU	
				F55R50A	DX	WG60FU	-	-	CGY60GFU	-	-	-	-
R.H.		TD42	FN4R50A	STD	WRGY60SU	WRGY60LSU	-	-	CRGY60GSU	URGY60SU	URGY60ASU		
			F55R50A	STD	-	-	-	-	-	URGY60SFU	URGY60ASFU		
			F55R50A	DX	WRGY60FU	-	-	CRGY60GFU	-	-	-	-	
Australia	R.H.	TB42	F55R50A	STD	WGY60SFM	WGY60LSFM	-	-	-	UGY60SFM	UGY60ASFM		
			F55R50A	DX	WGY60FM	-	-	-	-	-	-	-	
			RE4R03A	DX	WGY60KM	-	-	-	-	-	-	-	
	R.H.	TD42	F55R50A	STD	WRGY60SFM	WRGY60LSFM	-	-	-	URGY60SFM	URGY60ASFM		
			F55R50A	DX	WRGY60FM	-	-	-	-	-	-	-	
			F55R50A	DX	WRGY60KM	-	-	-	-	-	-	-	

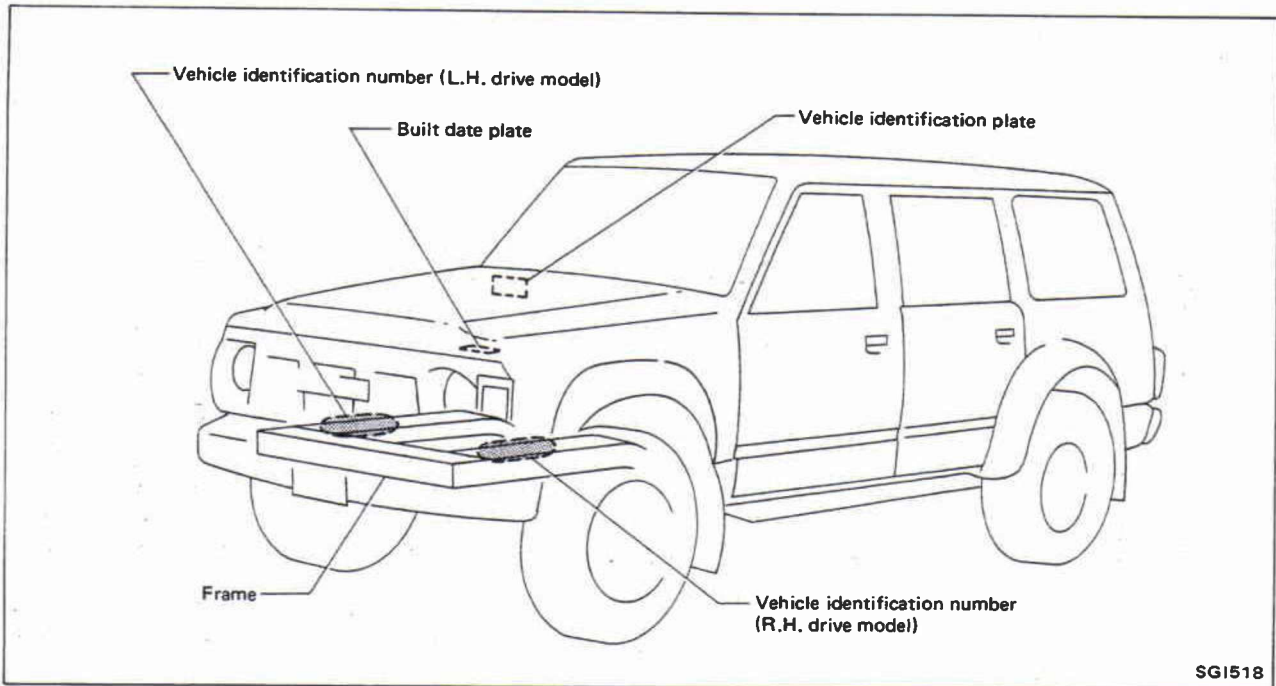
IDENTIFICATION INFORMATION

Model Variation (Cont'd)



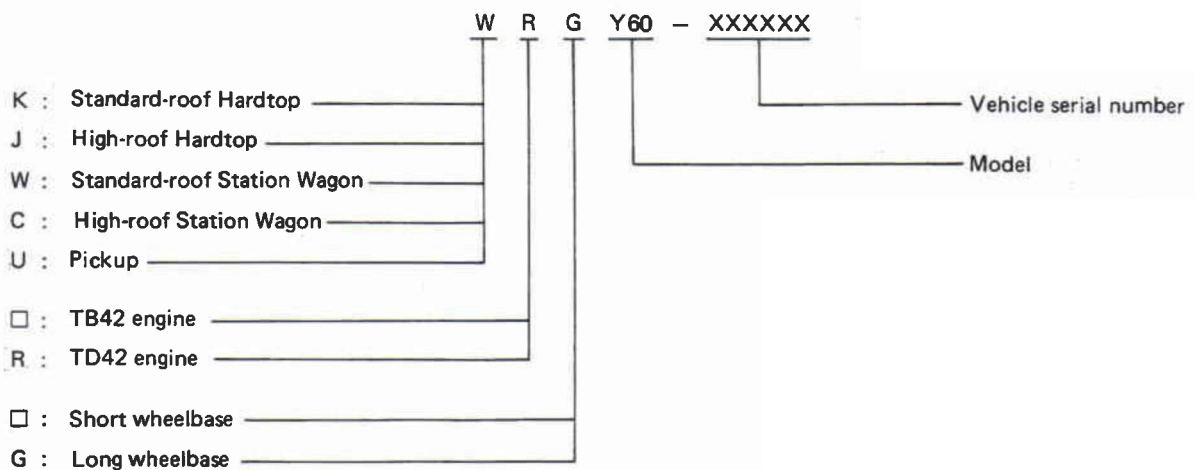
IDENTIFICATION INFORMATION

Identification Number



VEHICLE IDENTIFICATION NUMBER (Chassis number)

Prefix and suffix designations



IDENTIFICATION INFORMATION

Identification Number (Cont'd)

IDENTIFICATION PLATE

NISSAN MOTOR CO., LTD. JAPAN		
型式 TYPE TIPO	△	1 Type
CHASSIS NO. NO. DE CHASIS	△	2 Vehicle identification number (Chassis number)
MODEL MODELO	△	3 Model
○ カラー-COLOR TRIM トリム-COLOR GUARNICON	△ △	4 Body color code
エンジン ENGINE ジン MOTOR	△ △	5 Trim color code
ミッション TRANS. AXLE アクスル TRANS. EJE	△ △	6 Engine model
	工場 PLANT PLANTA	7 Engine displacement
日産自動車株式会社	MADE IN JAPAN	8 Transmission model
		9 Axle model

SGI534

ENGINE SERIAL NUMBER

TB42 engine

Stamped on the cylinder block

Front

CA0069

TD42 engine

Stamped on the cylinder block

Front

SGI520

TRANSMISSION SERIAL NUMBER

Manual transmission

SGI521

Automatic transmission

SGI545

TRANSFER SERIAL NUMBER

SGI523

Te
xt

IDENTIFICATION INFORMATION

Dimensions

		Station Wagon	Hardtop	Pickup
Overall length*5	mm (in)	4,810 (189.4), 4,850 (190.9)*1	4,240 (166.9), 4,280 (168.5)*1	4,970 (195.7)
Overall width	mm (in)	1,800 (70.9)	1,800 (70.9)	1,690 (66.5)
Overall height	mm (in)	1,815 (71.5), 1,995 (78.5)*2, 1,785 (70.3)*3, 1,815 (71.5)*4	1,825 (71.9), 1,995 (78.5)*2, 1,795 (70.7)*3, 1,825 (71.9)*4	1,855 (73.0)
Front tread	mm (in)	1,530 (60.2)	1,530 (60.2)	1,435 (56.5)
Rear tread	mm (in)	1,535 (60.4)	1,535 (60.4)	1,405 (55.3)
Wheelbase	mm (in)	2,970 (116.9)	2,400 (94.5)	2,970 (116.9)

*1: For Gulf standard (Middle East)

*2: High-roof models

*3: For Australia equipped with 215/80R16 tires

*4: For Australia

*5: For models with winch ... over length beyond 185 mm (7.3 in)

Wheels & Tires

Road wheel		5.50F-16SDC	6JJ-16	5.50F-15SDC	7JJ-15
Size					
Offset	mm (in)	30 (1.18)	30 (1.18)	-5 (-0.20)	5 (0.20)
Tire size		6.50-16-6PRLT 7.00-16-6PRLT (Front) 7.00-16-10PRLT (Rear) 7.50-16-6PRLT 7.50-16-8PRLT 7.50R16-6PRLT 7.50R16-8PRLT	215/80R16 107Q	9.00-15-6PR	10R15-6PRLT

RECOMMENDED FUEL AND CAPACITY

GASOLINE ENGINE

For Australia ... Unleaded gasoline of above 91 octane (RON)

Do not use leaded gasoline.

Except for Australia ... Gasoline of above 88 octane (RON)

DIESEL ENGINE

Above 45 cetane

FUEL TANK CAPACITY

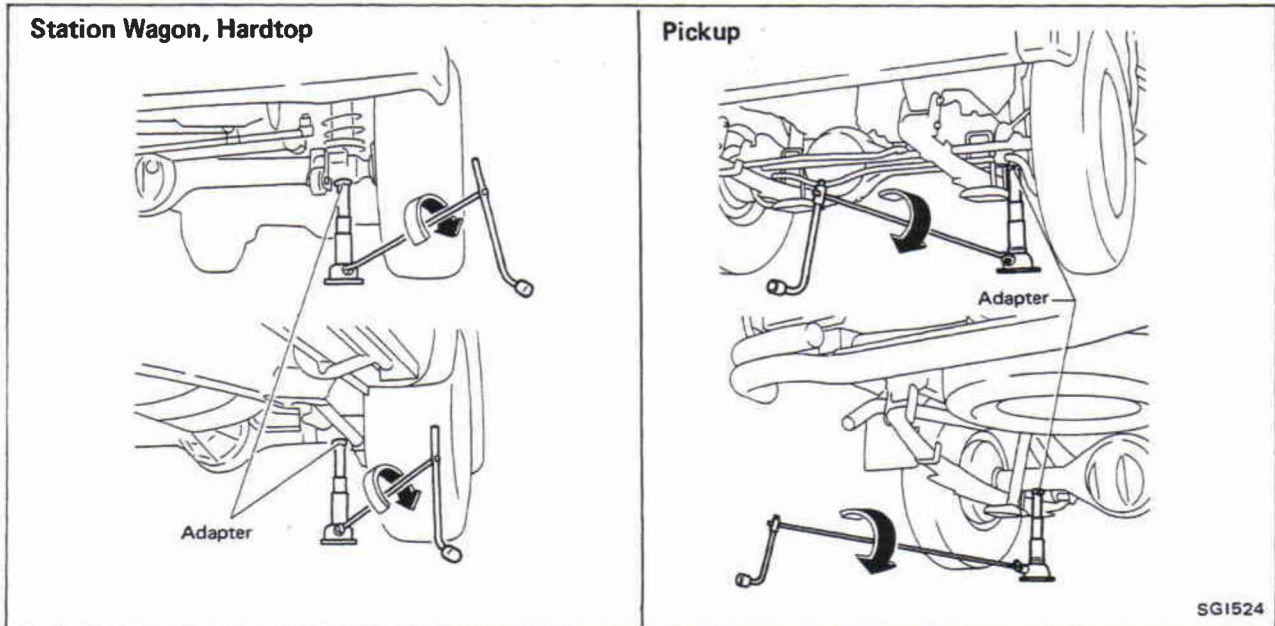
95ℓ (20-7/8 Imp gal)

LIFTING POINTS AND TOW TRUCK TOWING

WARNING:

- a. Never get under the vehicle while it is supported only by the jack. Always use safety stands to support the frame when you have to get under the vehicle.
- b. Place wheel chocks at both front and back of the wheel which is diagonally opposite the jack position.
Example: If the jack is positioned at the L.H. front wheel, place wheel chocks at R.H. rear wheel.

Screw Jack



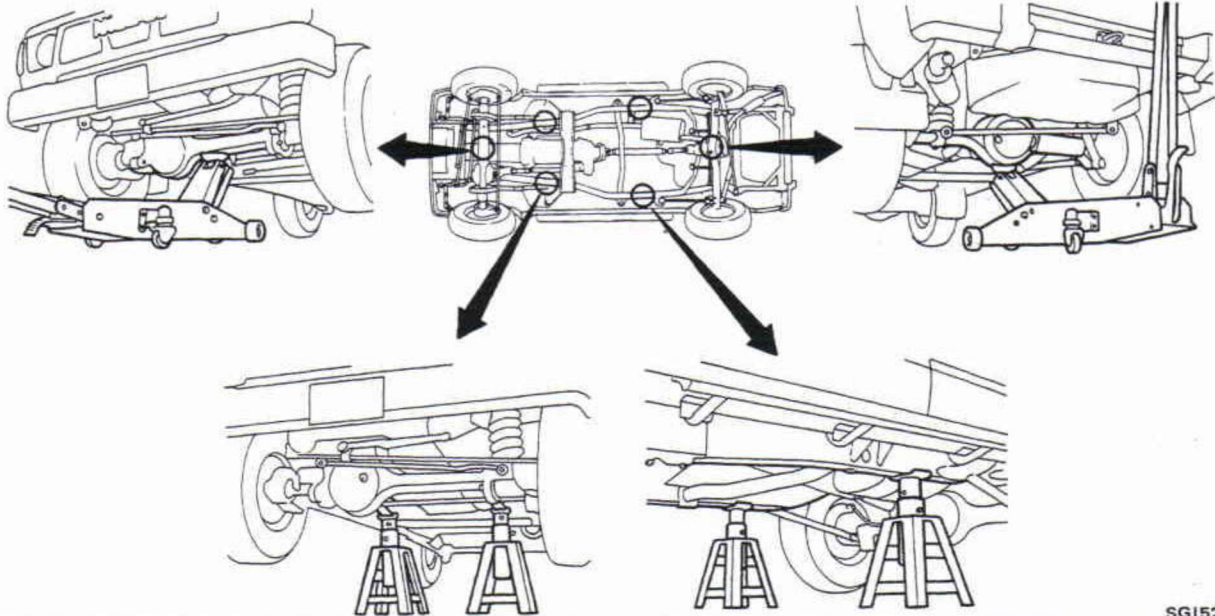
LIFTING POINTS AND TOW TRUCK TOWING

Garage Jack and Safety Stand

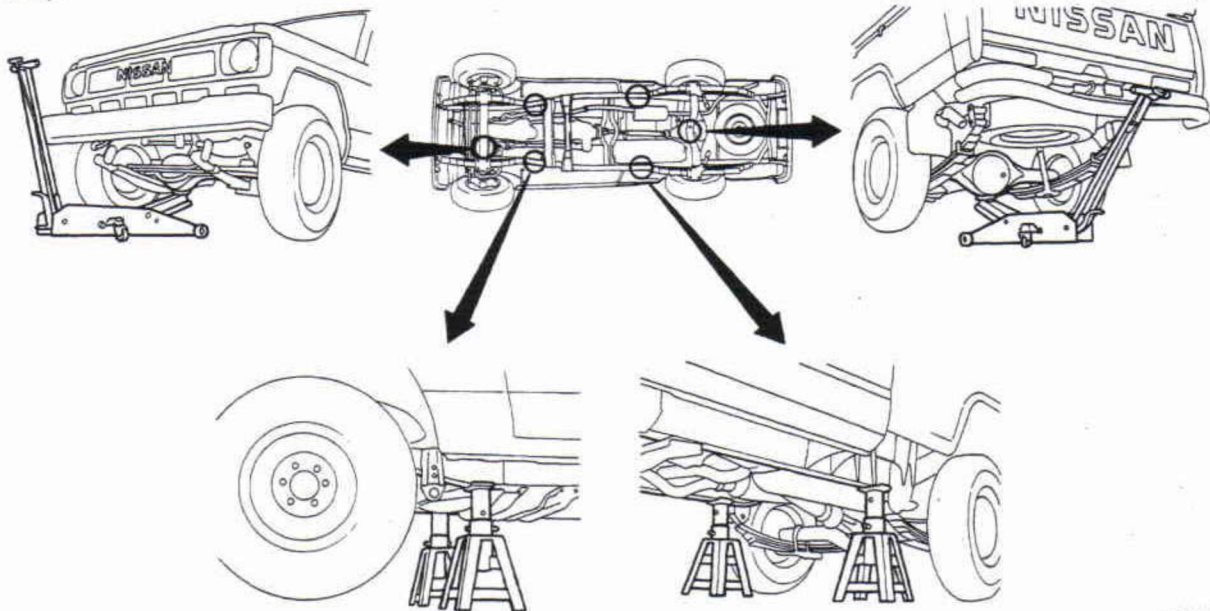
CAUTION:

- Place a wooden or rubber block between safety stand and vehicle body when the supporting body is flat.

Station Wagon, Hardtop



Pickup



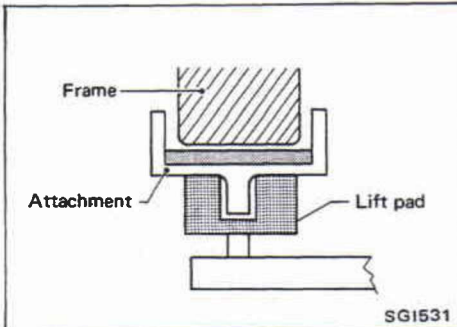
LIFTING POINTS AND TOW TRUCK TOWING

2-pole Lift

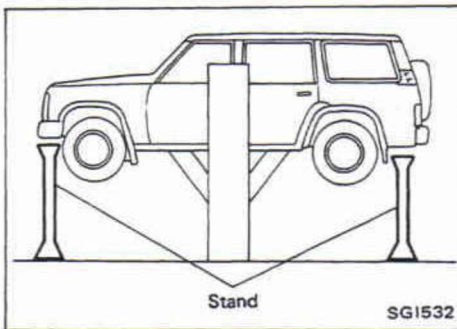
WARNING:

When lifting the vehicle, open the lift arms as wide as possible and ensure that the front and rear of the vehicle are well balanced.

When setting the lift arm, do not allow the arm to contact the brake tubes and fuel lines.

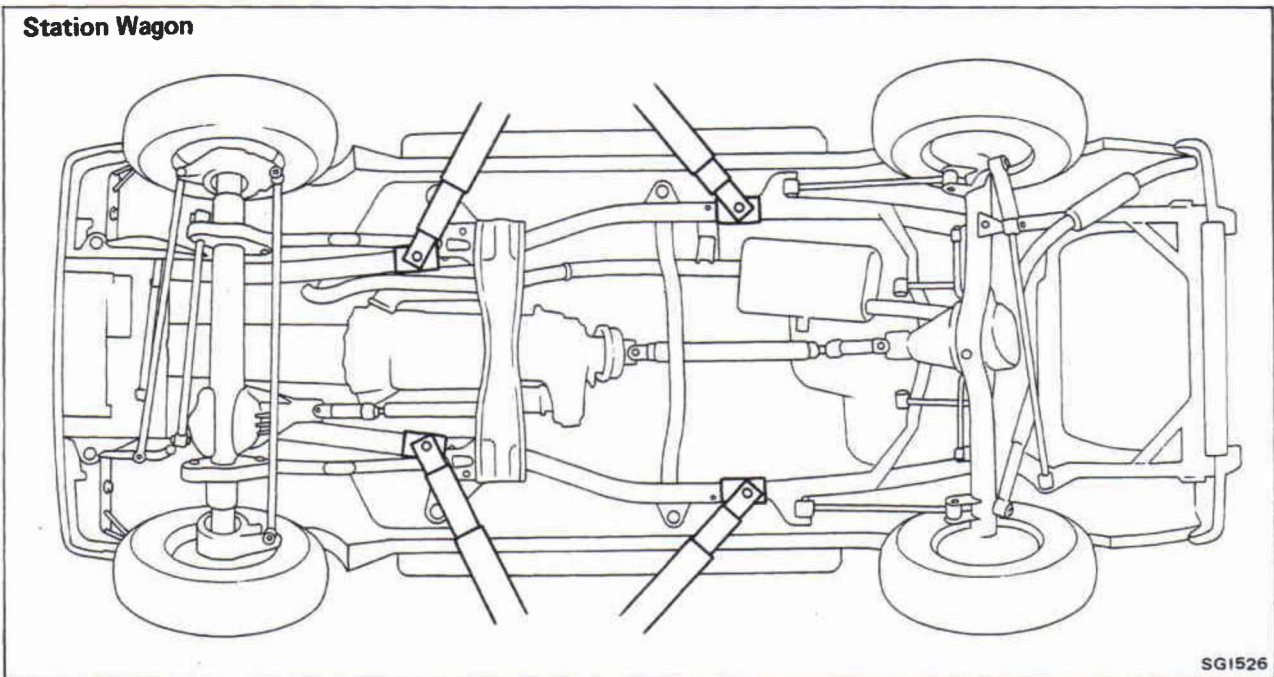


Put the attachment in the slit of the lift pad to prevent the frame from slipping.



Use suitable stands at the correct places as illustrated, to prevent the vehicle from becoming unbalanced.

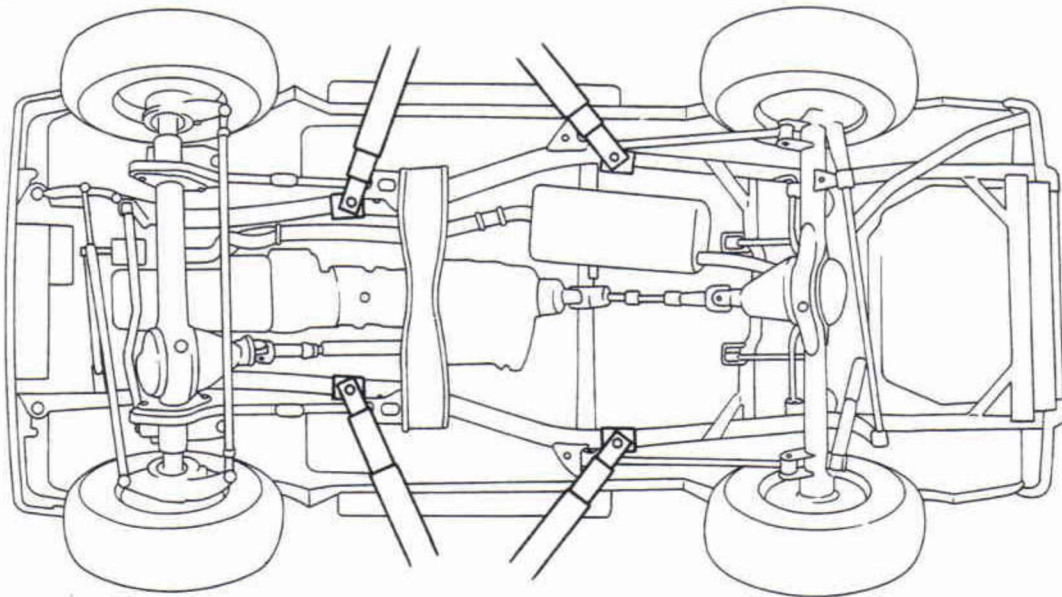
Station Wagon



LIFTING POINTS AND TOW TRUCK TOWING

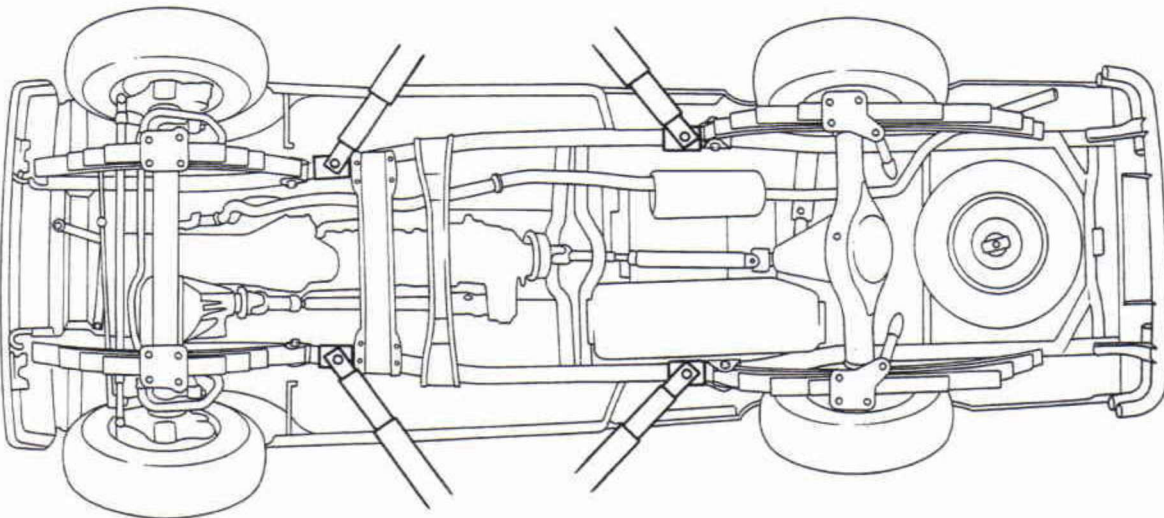
2-pole Lift (Cont'd)

Hardtop



SG1527

Pickup



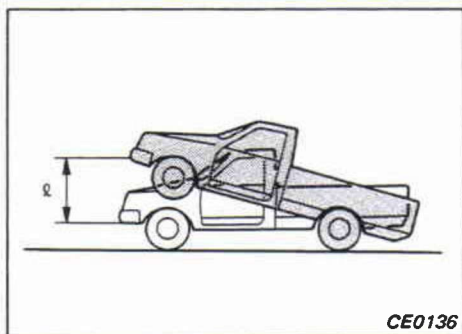
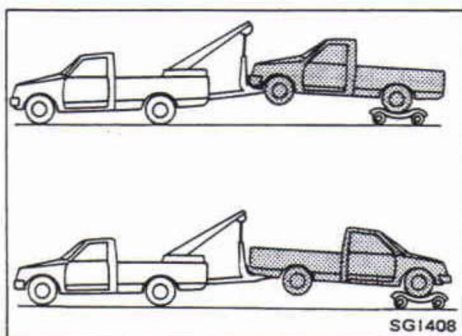
SG1528

LIFTING POINTS AND TOW TRUCK TOWING

Tow Truck Towing

CAUTION:

- All applicable local laws regarding the towing operation must be obeyed.
- It is necessary to use proper towing equipment to avoid possible damage to the vehicle during a towing operation.
- Attach safety chains for all towing.
- When towing, make sure that the transmission, steering system and power train are in good order. If any unit is damaged, a dolly must be used.
- When towing with the front wheels on the ground:
Turn the ignition key to the "OFF" position and secure the steering wheel in a straight-ahead position with a rope or similar device. Never place the ignition key in the "LOCK" position. This will result in damage to the steering lock mechanism.
- When towing with the rear wheels on the ground:
For M/T model
Release parking brake, set free-running hubs to the free position. Move both gearshift and transfer lever to neutral ("N" position).
For A/T model
Release parking brake, set free-running hubs to the free position. Move gearshift lever to "N" position, and move transfer lever to "2H" position.



NISSAN recommends that a dolly be used as illustrated.

If you have to tow a manual transmission model with front wheels raised (with rear wheels on ground)

Observe the following restricted raising heights.

- Do not raise the front end over l .

Wagon/Pickup/Van

$$l = 600 \text{ mm (23.62 in)}$$

Hardtop

$$l = 500 \text{ mm (19.69 in)}$$

LIFTING POINTS AND TOW TRUCK TOWING

Tow Truck Towing (Cont'd)

If you have to tow an automatic transmission model with four wheels on ground or tow an automatic transmission model with front wheels raised (with rear wheels on ground)

Observe the following restricted towing speeds, distances and raising heights.

- Speed: Below 50 km/h (30 MPH)
- Distance: Less than 65 km (40 miles)
- Do not raise the front end over ℓ .

Wagon/ Pickup

ℓ = 600 mm (23.62 in)

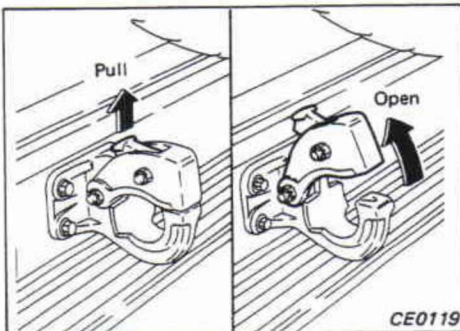
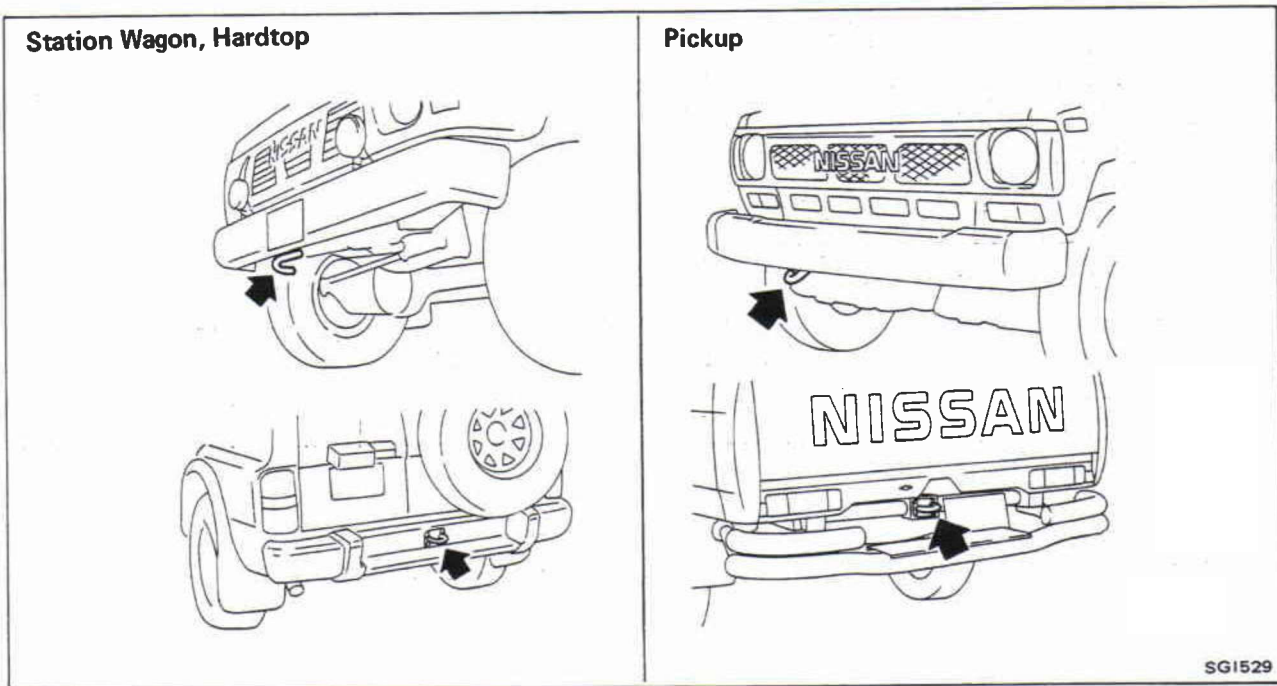
Hardtop

ℓ = 500 mm (19.69 in)

If the speed, distance or height must be greater, remove the front and rear propeller shafts beforehand to prevent damage to the transmission.

TOWING HOOKS

The towing hooks are provided only for emergency.



PINTLE HOOK

Do not use the pintle hook for towing another vehicle, trailer, etc. This hook is designed for use only in an emergency, i.e., when getting the vehicle out of the mud.

TIGHTENING TORQUE OF STANDARD BOLTS

Grade	Bolt size	Bolt diameter* mm	Pitch mm	Tightening torque (Without lubricant)					
				Hexagon head bolt			Hexagon flange bolt		
				N-m	kg-m	ft-lb	N-m	kg-m	ft-lb
4T	M6	6.0	1.0	5.1	0.52	3.8	6.1	0.62	4.5
	M8	8.0	1.25	13	1.3	9	15	1.5	11
			1.0	13	1.3	9	16	1.6	12
	M10	10.0	1.5	25	2.5	18	29	3.0	22
			1.25	25	2.6	19	30	3.1	22
	M12	12.0	1.75	42	4.3	31	51	5.2	38
1.25			46	4.7	34	56	5.7	41	
M14	14.0	1.5	74	7.5	54	88	9.0	65	
7T	M6	6.0	1.0	8.4	0.86	6.2	10	1.0	7
	M8	8.0	1.25	21	2.1	15	25	2.5	18
			1.0	22	2.2	16	26	2.7	20
	M10	10.0	1.5	41	4.2	30	48	4.9	35
			1.25	43	4.4	32	51	5.2	38
	M12	12.0	1.75	71	7.2	52	84	8.6	62
1.25			77	7.9	57	92	9.4	68	
M14	14.0	1.5	127	13.0	94	147	15.0	108	
9T	M6	6.0	1.0	12	1.2	9	15	1.5	11
	M8	8.0	1.25	29	3.0	22	35	3.6	26
			1.0	31	3.2	23	37	3.8	27
	M10	10.0	1.5	59	6.0	43	70	7.1	51
			1.25	62	6.3	46	74	7.5	54
	M12	12.0	1.75	98	10.0	72	118	12.0	87
1.25			108	11.0	80	137	14.0	101	
M14	14.0	1.5	177	18.0	130	206	21.0	152	

1. Special parts are excluded.
2. This standard is applicable to bolts having the following marks embossed on the bolt head.

*: Nominal diameter

Grade	Mark
4T	4
7T	7
9T	9

