Gŀ

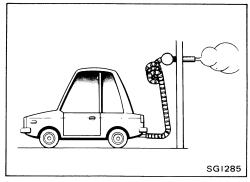
GENERAL INFORMATION

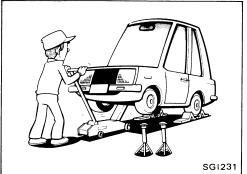
SECTION GI

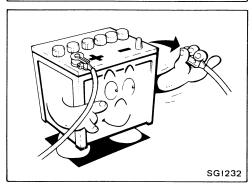
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The following precautions should be observed to ensure safe and proper service operations. These precautions are not described in each individual section.









- 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.

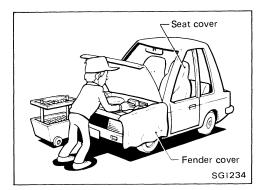
 Before jacking up the vehicle, apply wheel chocks or other tire blocks to the wheels to prevent the vehicle from moving. After jacking up the vehicle, support the vehicle weight with safety stands at the points designated for proper lifting and towing before working on the vehicle.

These operations should be done on a level surface.

- 3. When removing a heavy component such as the engine or transaxle/transmission, take care not to lose your balance and drop it. Also, do not allow it to hit against adjacent parts, especially brake tube and brake 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.

 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.

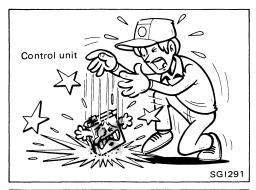
PRECAUTIONS



To prevent scratches and soiling, protect fenders, upholstery and carpeting with appropriate covers before starting servicing.

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. as instructed and discard used ones.
- 9. Tapered roller bearings and needle bearings should be replaced as a set of inner and outer races.
- 10. Arrange the disassembled parts in accordance with their assembled locations and sequence.
- 11. Do not touch the terminals of electrical components which utilize microcomputers such as electronic control units. Static electrical charges stored in your body may damage internal electronic components.
- 12. After disconnecting vacuum hose or air hose, attach tag which indicates the proper connection to prevent incorrect connection.
- 13. Use only the lubricants specified in the applicable section or those indicated under "Recommended Fuel and Lubricants".
- 14. Use approved bonding agent, sealants or their equivalents when required.
- 15. The use of the proper tools and recommended essential tools should be used where specified for proper, safe and efficient service repairs.
- 16. When effecting repairs on the fuel, oil, water, vacuum or exhaust systems, make certain to check all affected lines for leaks.
- 17. Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.





Precautions for E.F.I. or E.C.C.S. Engine

- Before connecting or disconnecting E.F.I. or E.C.C.S. harness connector to or from any E.F.I. or E.C.C.S. control unit, be sure to turn the ignition switch to the "OFF" position and disconnect the negative battery terminal.
 - Otherwise, there may be damage to control unit.
- 2. Before disconnecting pressurized fuel line from fuel pump to injectors, be sure to release fuel pressure to eliminate danger.
- 3. Be careful not to jar components such as control unit and air flow meter.

Precautions for a Catalyst

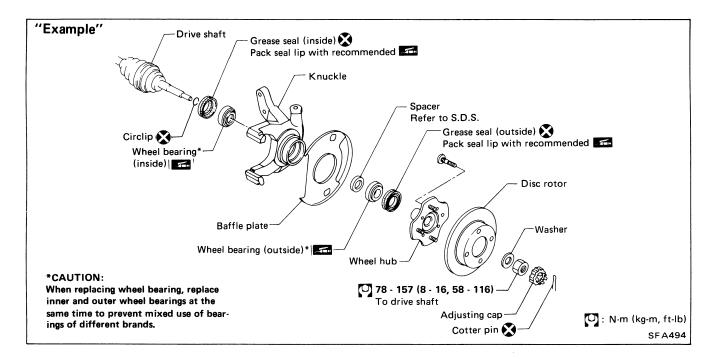
If a large amount of unburned fuel flows into the converter, the converter temperature will be excessively high. To prevent this, follow the procedure below.

- 1. Use unleaded gasoline only. Leaded gasoline will seriously damage the catalytic converter.
- 2. When checking for ignition spark or measuring engine compression, make tests quickly and only when necessary.
- 3. Do not run engine when the fuel tank level is low, otherwise the engine may misfire causing damage to the converter.
- 4. Do not place the vehicle on inflammable material. Keep inflammable material off the exhaust pipe.

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 mating 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 transaxle or transmission, etc. are presented in a step-by-step format where necessary.
- 7. The followings SYMBOLS AND ABBREVIATIONS are used:

: Tightening Torque S.D.S.: Service Data and Specifications

: Should be lubricated with grease.
Unless otherwise indicated, use

L.H., R.H.: Left-Hand, Right-Hand

M/T: Manual Transaxle/Transmission

recommended multi-purpose grease.

A/T: Automatic Transaxle/Transmission

Tool: Special Service Tools: Special Service Tools

: Always replace when disassembled.

: Sealing point: Checking point

HOW TO USE THIS MANUAL

8. The UNITS 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"

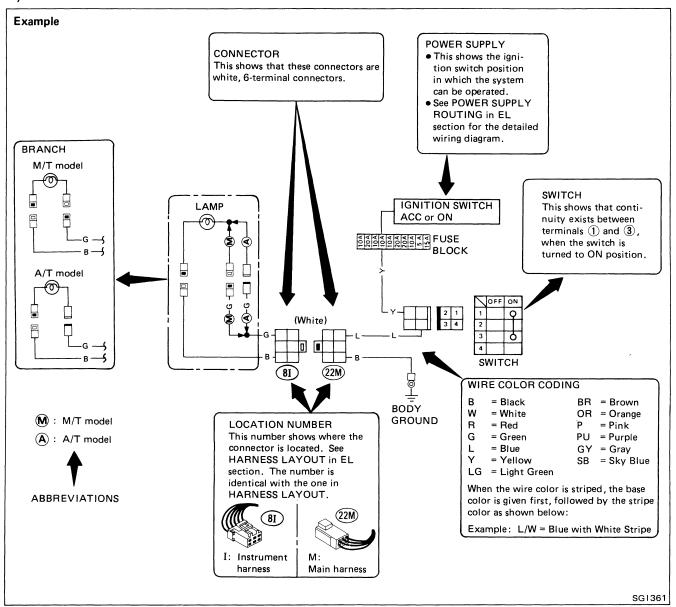
Tightening torque

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

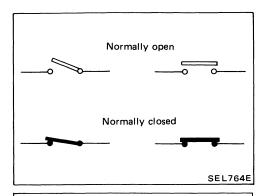
- 9. TROUBLE DIAGNOSES AND CORRECTIONS are included in sections dealing with complicated components.
- 10. SERVICE DATA AND SPECIFICATIONS is contained at the end of each section for quick reference of data.
- 11. The captions **WARNING** and **CAUTION** warn you of steps that must be followed to prevent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

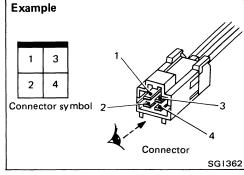
WIRING DIAGRAM

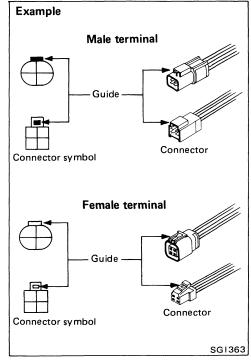
Symbols used in WIRING DIAGRAM are shown below.



HOW TO READ WIRING DIAGRAMS







SWITCH POSITIONS

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

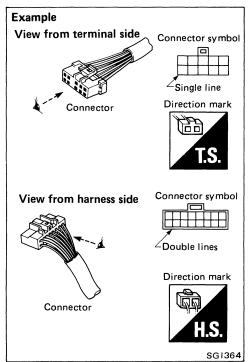
- Ignition switch "OFF".
- Doors, hood and trunk lid/back door closed.
- Pedals are not depressed and parking brake is released.

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.

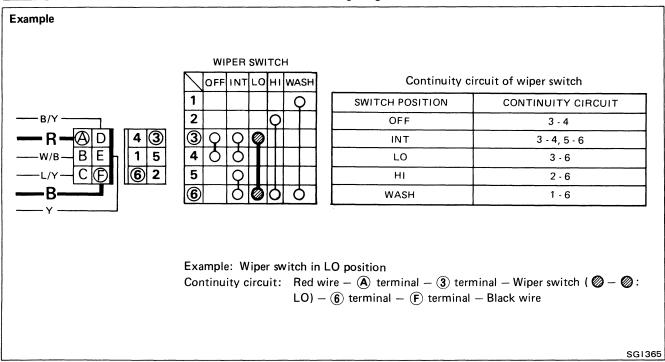


View from harness side . . . H.S.

 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.

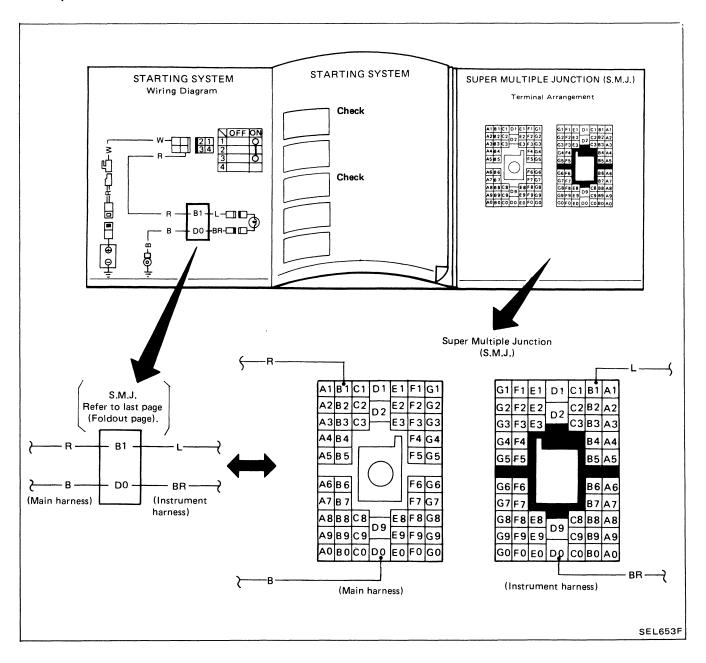


HOW TO READ WIRING DIAGRAMS

SUPER MULTIPLE JUNCTION (S.M.J.)

- The "S.M.J." indicated in wiring diagrams is shown in a simplified form. The terminal arrangement should therefore be referred to in the foldout at the end of the Service Manual.
- The foldout should be spread to read the entire wiring diagram.

"Example"



Model Variation

u			Engine		Z24i	'4i			VG30i	
oitenite			Transmission	F4W71C	FS5W71C	L4N71B (Floor shift)	L4N71B (Column shift)	FS5R30A	E4N71B (Floor shift)	E4N71B (Column shift)
 D•	Body		Differential carrier	H190A	H190A	H190A	H190A	H233B	H233B	H233B
.A.		STD	-	NLD21SEU	I	I	NLD21SYEU	-	-	l
S.U ,₁	Regular Cab	ш	Standard wheelbase	j	NLD21FEU	I	NLD21YEU	1	ļ	1
innoî	2	ш		an-	KNLGD21FEU	KNLGD21KEU	ı	ı	ı	1
ileO-	King Cab	SE	Long wheelbase	ı	1	-	ı	KHLGD21PFEU	KHLGD21PKEU	1
noN	Heavy duty	ш		1	-	1	1	EHLGD21FEU	l	EHLGD21YEU
		STD		NLD21SEV	-	1	NLD21SYEV	I	1	1
A.S.	Regular Cab	ш	Staffdard Wifeelbase	1	NLD21FEV	1	NLD21YEV	I	1	1
J , sin	3	ш		J	KNLGD21FEV	KNĽGD21KEV	***	l	I	ı
notile	King Cab	SE	Long wheelbase	l	l	1	ı	KHLGD21PFEV	KHLGD21PKEV	ı
၁	Heavy duty	ш		I	_	1	-	EHLGD21FEV	1	EHLGD21YEV
		STD	4	NLD21SEN	ŀ	1	I	ı	ı	ı
	Regular Cab	ц	Standard wneerbase	J	1	1	NLD21YEN	I	ı	1
ebe		J .	Long wheelbase	j	NLGD21FEN	1	NLGD21YEN	I	1	I
nsO	2	ш		I	KNLGD21FEN	KNLGD21KEN	l	I	1	l
	Niig can	SE	Long wheelbase	1	ı	ı	I	KHLGD21PFEN	KHLGD21PKEN	-
	Heavy duty	Ш		I	_	ı	ı	EHLGD21FEN	1	EHLGD21YEN

2-WHEEL DRIVE TRUCK

Model Variation (Cont'd)

4-WHEEL DRIVE TRUCK

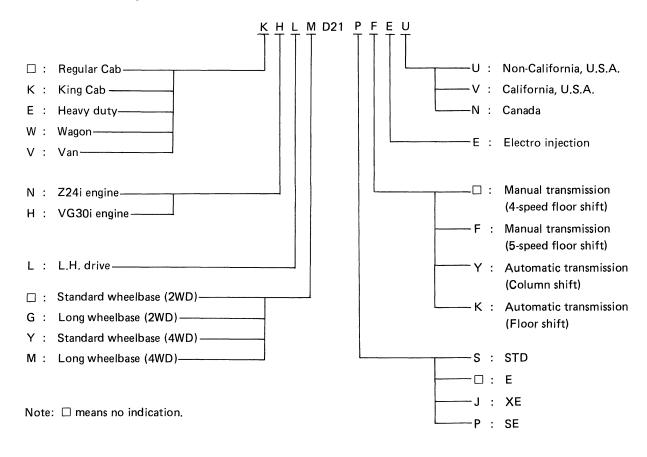
			Engine	Z2	!4i		VG	30i	
tion			Transmission	FS5V	V71C	FS5F	R30A	RE4F	R01A
Destination			Transfer	тх	10	TX	10	тх	10
De l	Body		Differential carrier	Front R180A	Rear C200	Front R200A	Rear H233B	Front R200A	Rear H233B
ornia.	Regular Cab	E	Standard wheelbase	NLYD2	IFEU	HLYD21	FEU	HLYD21	KEU
Non-California U.S.A.	King Only	E	I and the sales	KNLMD	21FEU	_	-	_	-
Non-	King Cab	SE	Long wheelbase	-	_	KHLMD	21PFEU	KHLMD	21PKEU
, ,	Regular Cab	E	Standard wheelbase	NLYD2	IFEV	HLYD21	FEV	HLYD21	KEV
California, U.S.A.	E	E		KNLMD	21FEV	_	-	_	
Sal	King Cab	SE	Long wheelbase		_	KHLMD21PFEV		KHLMD	21PKEV
	Regular Cab	E	Standard wheelbase	NLYD2	IFEN	_	-	_	-
Canada	garar Gab	XE	Ottandard Winderbuse	NLYD21JFEN		_		_	
Can	King Cab	XE	- Long wheelbase	KNLMD	21JFEN	_	_	_	-
	Time Odb	SE	Long wheelbase	_	-	KHLMD	21PFEN	KHLMD	21PKEN

4-WHEEL DRIVE PATHFINDER

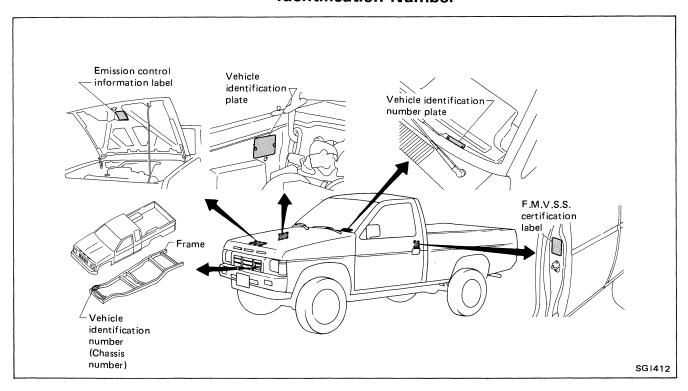
		Engine	Z2	4i		VG	30i			
ion		Transmission	FS5W	/71C	FS5F	R30A	RE4F	R01A		
Destination		Transfer	TX	10	TX	10	ТХ	10		
De	Body	Differential carrier	Front R180A	Rear C200	Front R200A	Rear H233B	Front R200A	Rear H233B		
nia,		E	WNLYD:	21FEU	_	_	_	_		
Non-California, U.S.A.	Wagon	XE	_	-	WHLYD	21JFEU	WHLYD	21JKEU		
		SE		-	WHLYD	21PFEU	WHLYD	21PKEU		
California, U.S.A.	Wagon	XE	_		WHLYD21JFEV		WHLYD21JKEV			
Calif U.S	vvagon	SE	_		WHLYD21PFEV		WHLYD21PKEV			
m		E	VNLYD:	VNLYD21FEN		VNLYD21FEN		_		-
Canada	Van	XE	_	_	VHLYD	21JFEN	VHLYD	21JKEN		
		SE	-	_	VHLYD	21PFEN	VHLYD	21PKEN		

Model Variation (Cont'd)

Prefix and suffix designations:

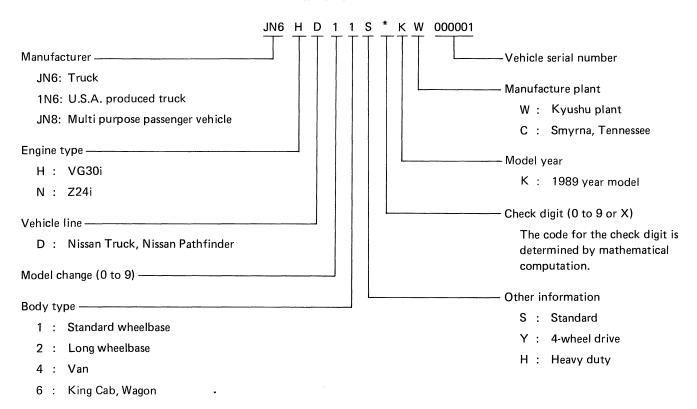


Identification Number



Identification Number (Cont'd)

VEHICLE IDENTIFICATION NUMBER ARRANGEMENT



The 1989 models start production with the following vehicle identification numbers (chassis number) with the exception of those produced in U.S.A. produced trucks.

JN6HD11S*KW100001 JN6HD12S*KW100001 JN6HD16S*KW100001 JN6ND11S*KW100001 JN6ND12S*KW100001 JN6ND16S*KW100001 JN6HD12H*KW100001 JN6HD15H*KW100001 JN6HD11Y*KW100001 JN6HD16Y*KW100001 JN6ND11Y*KW100001 JN6ND12Y*KW100001 JN6ND16Y*KW100001 JN8ND16Y*KW100001 JN8HD16Y*KW100001 JN8HD14Y*KW100001 JN6ND14Y*KW100001

Identification Number (Cont'd)

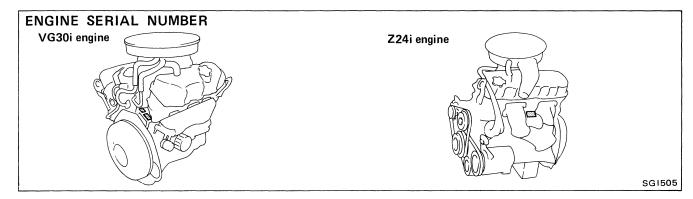
IDENTIFICATION PLATE NISSAN MOTOR CO., LTD. JAPAN 型式 CHASSIS NO 2 NO. DE CHASIS MODEL 3 MODELO カラー COLOR TRIM 0 0 <u>4</u> <u>5</u> FUA COLOR GUARNICION $\pm \nu$ ENGINE CC <u>6</u> ${\it >\!\!>} \sim {\rm MOTOR}$ ミッション TRANS., AXLE <u>8</u> アクスル TRANS., EJE

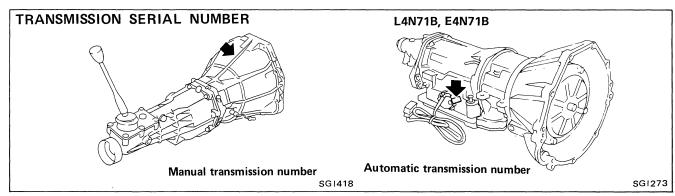
- 工場 PLANTA
- 日產自動車株式会社 MADE IN JAPAN

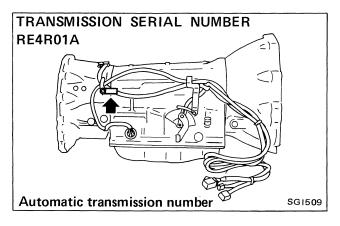
PLANT

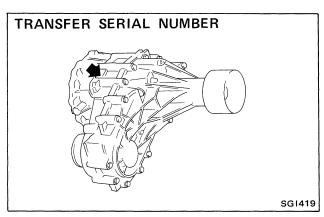
- 1 Type
- Vehicle identification number (Chassis number)
- 3 Model
- 4 Body color code
- 5 Trim color code
- 6 Engine model
- Engine displacement
- 8 Transmission model
- 9 Axle model

SG1315









Dimensions

Truck

Unit: mm (in)

			2-w	vheel drive		4-w	heel drive
		Regula	ar Cab	King Cab	Heavy duty	Regular Cab	King Cab
		Standard wheelbase		Long wheelb	ase	Standard wheelbase	Long wheelbase
Overall length		4,435 (174.6)	4,825 (190.0)	4,825 (190.0)	4,825 (190.0)	4,435 (174.6)	4,825 (190.0)
Overall width		1,650 (65.0)	1,650 (65.0)	1,650 (65.0)	1,650 (65.0)	1,690 (66.5)	1,690 (66.5)
Overall height		1,575 (62.0)	1,575 (62.0)	1,575 (62.0)	1,575 (62.0)	1,695 (66.7)	1,695 (66.7)
Front tread		1,395 (54.9)	1,395 (54.9)	1,395 (54.9)	1,395 (54.9)	1,425 (56.1)	1,425 (56.1)
Rear tread (Z24i engine model)		1,385 (54.5)	1,385 (54.5)	1,385 (54.5)	_	1,385 (54.5)	1,385 (54.5)
Rear tread (VG30i engine model)		1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)
Wheelbase		2,650 (104.3)	2,950 (116.1)	2,950 (116.1)	2,950 (116.1)	2,650 (104.3)	2,950 (116.1)
Cargo space	Length	1,875 (73.8)	2,265 (89.2)	1,895 (74.6)	2,265 (89.2)	1,875 (73.8)	1,895 (74.6)
	Width	1,520 (59.8)	1,520 (59.8)	1,520 (59.8)	1,520 (59.8)	1,520 (59.8)	1,520 (59.8)
	Height	435 (17.1)	435 (17.1)	435 (17.1)	435 (17.1)	435 (17.1)	435 (17.1)

Pathfinder

Unit: mm (in)

	Wagor	1	Van
	VG30i	Z24i	Z24i
Overall length	4,365 (171.9)	4,365 (171.9)	4,365 (171.9)
Overall width	1,690 (66.5)	1,690 (66.5)	1,690 (66.5)
Overall height	1,670 (65.7)/1,680 (66.1)*	1,670 (65.7)	1,670 (65.7)
Front tread	1,425 (56.1)/1,445 (56.9)*	1,425 (56.1)	1,425 (56.1)
Rear tread	1,410 (55.5)/1,430 (56.3)*	1,385 (54.5)	1,385 (54.5)
Wheelbase	2,650 (104.3)	2,650 (104.3)	2,650 (104.3)

^{*:} SE model

Wheels & Tires

	Body	Grade	Road wheel/offset mm (in)	Tire
		STD	5-J×14/40 (1.57)	P185/75R14
		E	5-J×14/40 (1.57)	P195/75R14
4x2	Regular and King Cab	XE	5-J×14/40 (1.57)	P195/75R14
-		SE	6-JJ×14/30 (1.18) 6-JJ×14 Aluminum/30 (1.18)*	P215/75R14
	Heavy duty	E	5-J×14/40 (1.57)	LT195/75R14
		E	5-1/2-K×15/40 (1.57)	P215/75R15
4×4	Regular, King Cab	XE	5-1/2-K×15/40 (1.57)	P215/75R15
444	and Pathfinder	SE	6-JJ×15/30 (1.18) 7-JJ×15 Aluminum/25 (0.98)*	P235/75R15 31x10.5R15*

^{*:} Option

RECOMMENDED FUEL AND LUBRICANTS

Fuel and Lubricants

				Сар	acity (Approxima	ate)		
				US measure	Imp measure	Liter	Recommended Fuel/Lubricants	
Fuel				15-7/8 gal 21-1/8 gal*1	13-1/4 gal 17-5/8 gal*1	60 80*1	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91	
Engine oil (F	Refill)					*		
VG30i	2WD	With oil filte	er	4-1/4 qt	3-1/2 qt	4.0		
		Without oil		3-7/8 qt	3-1/8 qt	3.6		
VG30i	4WD	With oil filte		3-5/8 qt	3 qt	3.4	Genuine Nissan Motor Oil*4 or	
70.4		Without oil		3-1/8 qt	2-5/8 qt	3.0	equivalent	
Z24i	2WD	With oil filte		4 qt	3-3/8 qt	3.8	Energy Conserving Oils*3	
704		Without oil		3-1/2 qt	2-7/8 qt	3.3	of API SF or SG	
Z 24i	4WD	With oil filte		4-1/2 qt	3-3/4 qt	4.3	OF AFT SF OF SG	
		Without oil	tilter 	4 qt	3-3/8 qt	3.8		
Cooling syste	em (With hea	ter)						
VG30i				10-1/2 qt	8-3/4 qt	9.9	Anti-freeze coolant	
Z24i				8-5/8 qt	7-1/4 qt	8.2	(Ethylene glycol base)	
Reservoir	tank			5/8 qt	1/2 qt	0.6	(Ethylene grycor base)	
		F4W71C		3-5/8 pt	3 pt	1.7		
Manual trans		FS5W71C	2WD	4-1/4 pt	3-1/2 pt	2.0		
gear oil	STHISSION		4W D	8-1/2 pt	7 pt	4.0		
gear on		FS5R30A	2WD	5-1/8 pt	4-1/4 pt	2.4		
			4WD	7-5/8 pt	6-3/8 pt	3.6	API GL-4*2	
Transfer gear	oil 2-3			2-3/8 qt	2 qt	2.2		
Manual steeri	ing gear oil			3/4 pt	5/8 pt	0.33		
Differential o	arrier gear o	il						
Rear:		H190A		3-1/8 pt	2-5/8 pt	1.5	Standard differential gear:	
Front (4WD): Automatic transmission		C200		2-3/4 pt	2-1/4 pt	1.3	API GL-5*2	
		H233B		5-7/8 pt	4-7/8 pt	2.8	Limited-slip differential (L.S.D.) gear	
		R180A		2-3/4 pt	2-1/4 pt	1.3	Use only LSD gear oil API GL-5 and SAE 80W-90*5 approved	
		R200A		3-1/8 pt	2-5/8 pt	1.5	for Nissan LSD*6.	
		L4N71B, E4N71B		7-3/8 qt	6-1/8 qt	7.0	Genuine Nissan ATF*4 or equivalent	
fluid		RE4R01A		9 qt	7-1/2 qt	8.5	Type DEXRON™	
Power steerir	ng fluid			2-1/8 pt	1-3/4 pt	1.0	Type DEXRON™	
Brake and clu	utch fluid			_	_	_	Genuine Nissan Brake Fluid*4 or equivalent DOT 3 (US FMVSS No. 116)	
Multi-purpos	e grease			_	_	_	NLGI No. 2 (Lithium soap base)	

^{*1:} VG30i engine models except 2WD Truck SE models and 4WD Truck E models.

^{*2:} For further details, see the recommended SAE viscosity number chart.

^{*3:} These oils can be identified by such labels as energy conserving, energy saving, improved fuel economy, etc.

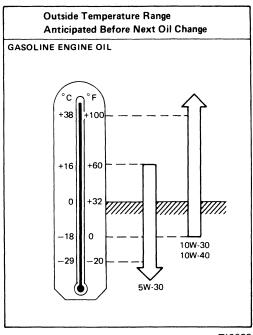
^{*4:} Available in mainland U.S.A. through your Nissan dealer.

^{*5:} SAE 90 is acceptable in ambient temperatures above -18° C (0° F).

^{*6:} Contact a Nissan dealer for a list of approved oils.

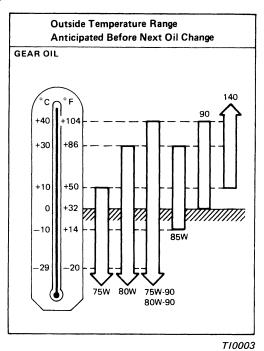
RECOMMENDED FUEL AND LUBRICANTS

SAE Viscosity Number



T10002

10W-30 is preferable if the ambient temperature is above -18° C (0° F). 20W-40 and 20W-50 are usable if the ambient temperature is above 10° C (50° F) for all seasons.



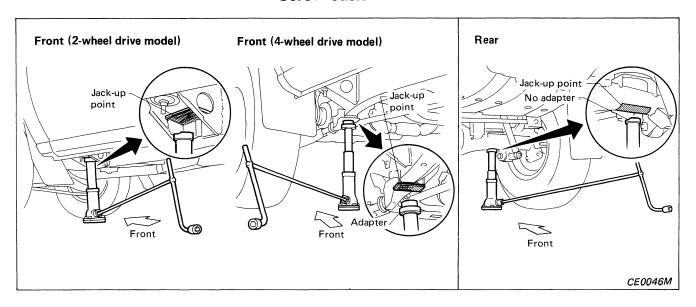
75W-90 for transmission and transfer, and 80W-90 for differential are preferable if the ambient temperature is below 40°C (104°F).

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.

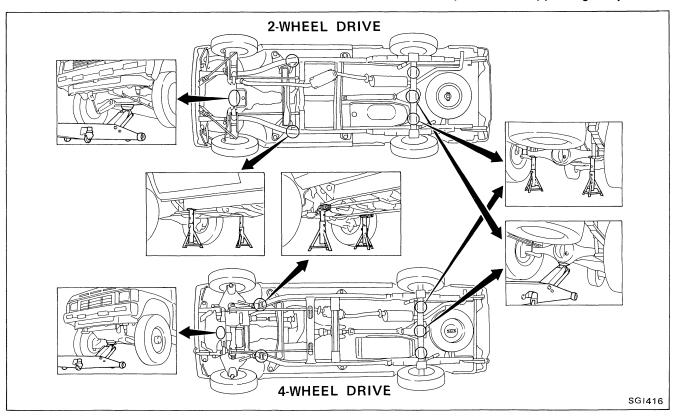
Screw Jack



Garage Jack and Safety Stand

CAUTION:

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



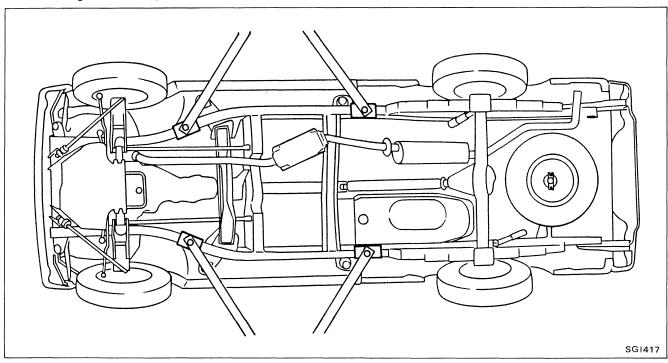
LIFTING POINTS AND TOW TRUCK TOWING

2-pole Lift

WARNING:

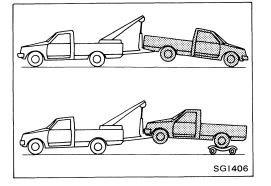
When lifting the vehicle, open the lift arms as wide as possible and ensure that the front and rear of the vehicle are well balanced.

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



Tow Truck Towing CAUTION:

- All applicable state or Provincial (in Canada) laws and 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 towing operation.
 Towing is in accordance with Towing Procedure Manual at dealer.
- 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 straightahead 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, release the parking brake and move the gearshift lever to neutral ("N" position).
- For 4-wheel drive model:
 Set the free-running hubs to the free position and move both the gearshift and transfer levers to neutral ("N" position).



2-WHEEL DRIVE MODELS

NISSAN recommends that vehicle be towed with the driving (rear) wheels off the ground as illustrated.

Towing an automatic transmission model with four wheels on ground or towing with front wheels raised (With rear wheels on ground)

Observe the following restricted towing speeds and distances.

Speed

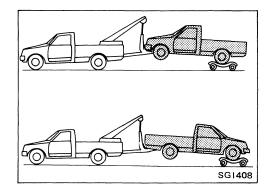
Below 50 km/h (30 MPH)

Distance

Less than 65 km (40 miles)

If the speed or distance must necessarily be greater, remove the propeller shaft beforehand to prevent damage to the transmission.

LIFTING POINTS AND TOW TRUCK TOWING



Tow Truck Towing (Cont'd)

4-WHEEL DRIVE MODELS

NISSAN recommends that a dolly be used as illustrated when towing 4-wheel drive models.

Towing with four wheels on ground or towing with front or rear wheels raised

Observe the following restricted towing speeds and distances.

Speed

Below 50 km/h (30 MPH)

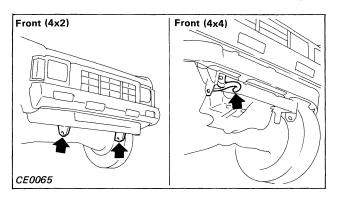
Distance

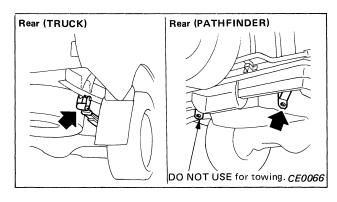
Less than 65 km (40 miles)

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

TOWING POINT

- Never tow the vehicle using only the towing hooks. Use proper towing equipment when towing. Otherwise, the vehicle body will be damaged.
- Always pull the cable straight out from the vehicle. Never pull on the hook at a sideways angle.





TIGHTENING TORQUE OF STANDARD BOLTS

0 1	D 1: :	Bolt dia-	D'. I		Tighteni	ng torque (V	/ithout lubr	icant)	
Grade	Bolt size	meter* mm	Pitch mm	He	cagon head bo	olt	Hex	agon flange	bolt
				N⋅m	kg-m	ft-lb	N⋅m	kg-m	ft-lb
	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
	IVIO	8.0	1.0	13	1.3	9	16	kg-m	12
4T	M10	10.0	1.5	25	2.5	18	29		22
41	IVITO	10.0	1.25	25	2.6	19	30		22
	N410	10.0	1.75	42	4.3	31	51	5.2	38
	M12	12.0	1.25	46	4.7	34	56	5.7 9.0 1.0 2.5 2.7 4.9 5.2 8.6	41
	M14	14.0	1.5	74	7.5	54	88	9.0	65
	M6	6.0	1.0	8.4	0.86	6.2	10	9.0 1.0 2.5 2.7 4.9 5.2 8.6	7
	MO	8.0	1.25	21	2.1	15	25	2.5	18
	M8	8.0	1.0	22	2.2	16	10 1.0 25 2.5 26 2.7 48 4.9 51 5.2	20	
7T	M10	10.0	1.5	41	4.2	30	48	Residue Resi	35
71	WITO	10.0	1.25	43	4.4	32	51		38
	M12	12.0	1.75	71	7.2	52	84		62
	IVITZ	12.0	1.25	77	7.9	57	92		68
_	M14	14.0	1.5	127	13.0	94	147		108
	M6	6.0	1.0	12	1.2	9	15	1.5	11
	M8	8.0	1.25	29	8.4 0.86 6.2 10 1.0 21 2.1 15 25 2.5 22 2.2 16 26 2.7 41 4.2 30 48 4.9 43 4.4 32 51 5.2 71 7.2 52 84 8.6 77 7.9 57 92 9.4 127 13.0 94 147 15.0 12 1.2 9 15 1.5 29 3.0 22 35 3.6 31 3.2 23 37 3.8	3.6	26		
	IVIO	8.0	1.0	31	3.2	23	37	3.8	27
9T	M10	10.0	1.5	59	6.0	43	70	7.1	51
	IVITO	10.0	1.25	62	6.3	46	74		54
	M12	12.0	1.75	98	10.0	72	118		87
	IVI I Z	12.0	1.25	108	11.0	80	137		101
	M14	14.0	1.5	177	18.0	130	206		152

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

Grac	le	Mark
4T		4
7T		7
9T		9

*: Nominal diameter

M	6		
T	Τ	Nominal diameter of bolt threads (Unit:	mm)
L		Metric screw threads	