SECTION GI



# GENERAL INFORMATION

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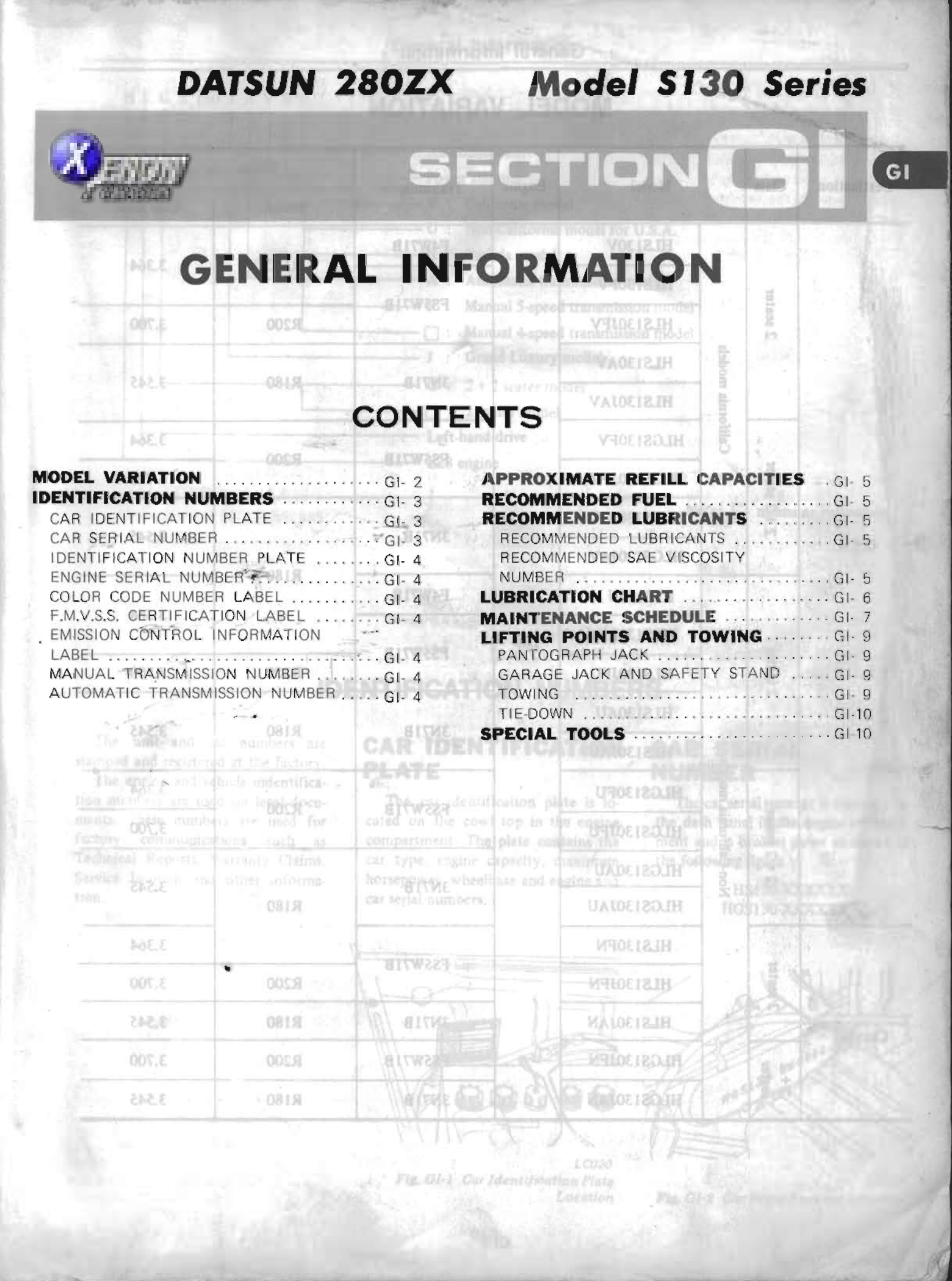
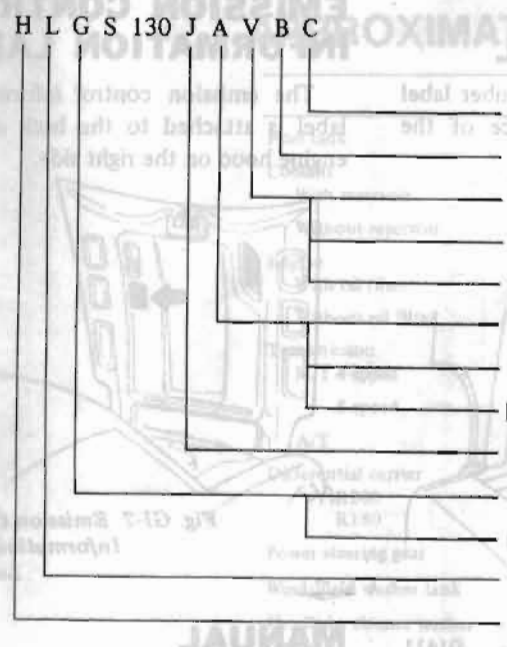


# MODEL VARIATION

| Destination | Class | | Model | Engine | Transmission | Differential carrier | |
|---|---|---|---|---|---|---|---|
| | | | | | | Model | Gear ratio |
| U.S.A. | 2 seater | California models | HLS130V | L28 | F4W71B | R180 | 3.364 |
| | | | HLS130FV | | FS5W71B | | |
| | | | HLS130JFV | | | R200 | 3.700 |
| | | | HLS130AV | | 3N71B | R180 | 3.545 |
| | | | HLS130JAV | | | | |
| | 2 + 2 seater | | HLGS130FV | | FS5W71B | R200 | 3.364 |
| | | | HLGS130JFV | | | | 3.700 |
| | | | HLGS130AV | | 3N71B | R180 | 3.545 |
| | | | HLGS130JAV | | | | |
| | 2 seater | Non-California models | HLS130U | | F4W71B | | 3.364 |
| | | | HLS130FU | | FS5W71B | | |
| | | | HLS130JFU | | | R200 | 3.700 |
| | | | HLS130AU | | 3N71B | R180 | 3.545 |
| | | | HLS130JAU | | | | |
| | 2 + 2 seater | | HLGS130FU | | FS5W71B | R200 | 3.364 |
| | | | HLGS130JFU | | | | 3.700 |
| | | | HLGS130AU | | 3N71B | R180 | 3.545 |
| | | | HLGS130JAU | | | | |
| Canada | 2 seater | | HLS130FN | | FS5W71B | | 3.364 |
| | | | HLS130JFN | | | R200 | 3.700 |
| | | | HLS130JAN | | 3N71B | R180 | 3.545 |
| | 2 + 2 seater | | HLGS130JFN | | FS5W71B | R200 | 3.700 |
| | | | HLGS130JAN | | 3N71B | R180 | 3.545 |




**Note: □ means no indication**

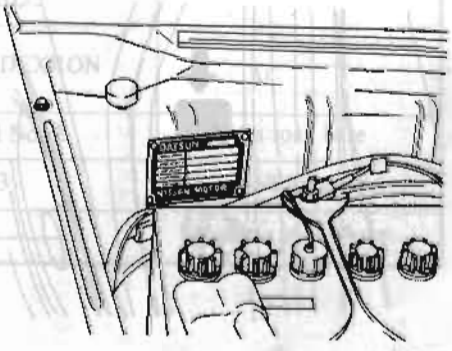
# IDENTIFICATION NUMBERS

The unit and car numbers are stamped and registered at the factory.

The engine and vehicle indentification numbers are used on legal documents. These numbers are used for factory communications such as Technical Reports, Warranty Claims, Service Journals and other information.

## CAR IDENTIFICATION PLATE

The car identification plate is located on the cowl top in the engine compartment. The plate contains the car type, engine capacity, maximum horsepower, wheelbase and engine and car serial numbers.



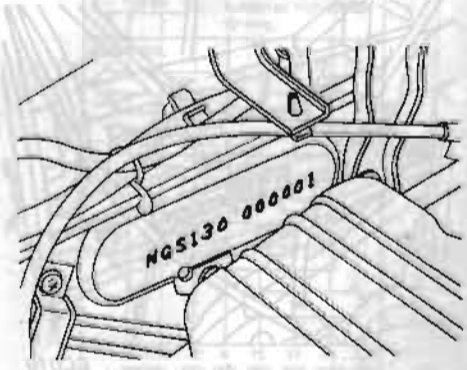
LC020

*Fig. GI-1 Car Identification Plate Location*

## CAR SERIAL NUMBER

The car serial number is stamped on the dash panel in the engine compartment and is broken down as shown in the following figure.

HS130-XXXXXX
HGS130-XXXXXX

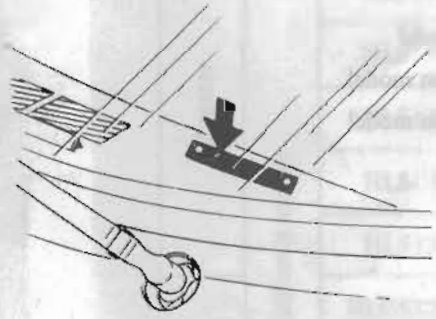



LC017

*Fig. GI-2 Car Serial Number Location*

## IDENTIFICATION NUMBER PLATE

The identification number plate is located on the upper surface of the instrument panel and can be seen from outside through the windshield glass. The identification number consists of the car model and the serial number.

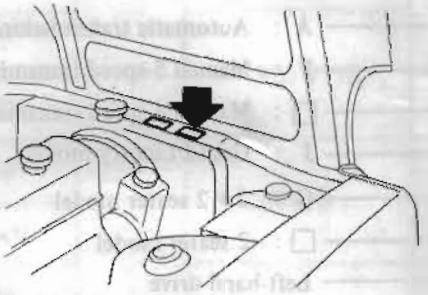


LC018

*Fig. GI-3 Identification Number Plate Location*

## COLOR CODE NUMBER LABEL

The body color code number label is attached to the top face of the radiator core support.

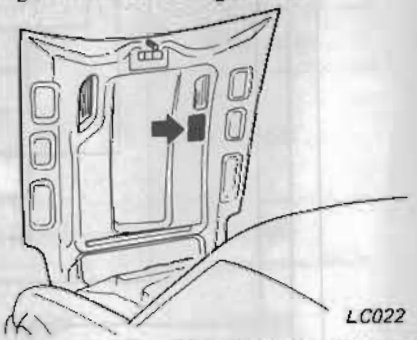


GI411

*Fig. GI-5 Color Code Number Label Location*

## EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached to the back of the engine hood on the right side.

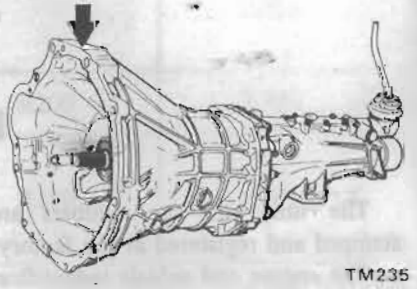


LC022

*Fig. GI-7 Emission Control Information Label Location*

## MANUAL TRANSMISSION NUMBER

The transmission serial number is stamped on the front upper face of the transmission case.



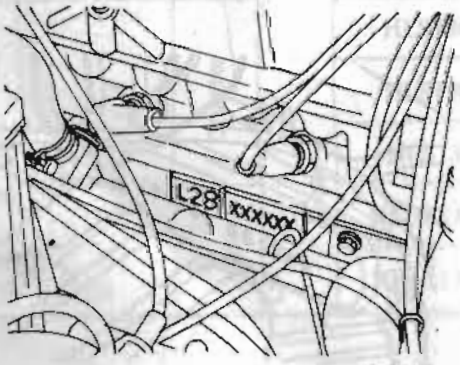
TM235

*Fig. GI-8 Manual Transmission Number Location*

## ENGINE SERIAL NUMBER

The engine serial number is stamped on the right-hand side of the cylinder block. The number is broken down as shown in Fig. GI-4.

| Engine model | Engine number |
|---|---|
| L28 | L28-XXXXXX |

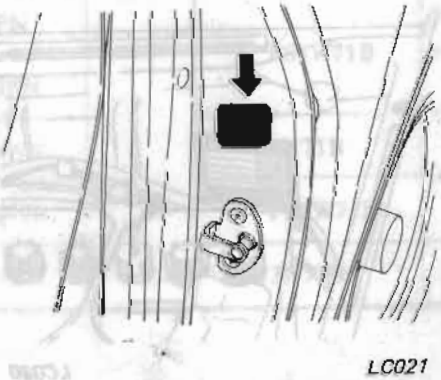



LC019

*Fig. GI-4 Engine Serial Number Location*

## F.M.V.S.S. CERTIFICATION LABEL

The F.M.V.S.S. certification label is attached to the driver's side lock pillar as shown in Fig. GI-6.

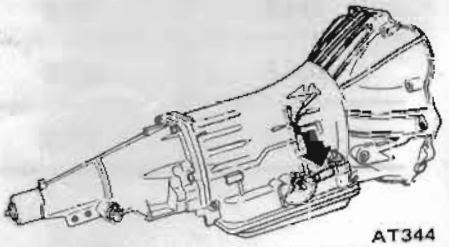


LC021

*Fig. GI-6 F.M.V.S.S. Certification Label Location*

## AUTOMATIC TRANSMISSION NUMBER

The transmission serial number plate is attached on the right-hand side of the transmission case.



AT344

*Fig. GI-9 Automatic Transmission Number Location*

# APPROXIMATE REFILL CAPACITIES

| | Liter | US measure | Imp measure |
|---|---|---|---|
| Fuel tank | 80 | 21-1/8 gal | 17-5/8 gal |
| Coolant | | | |
| With reservoir | 10.5 | 11-1/8 qt | 9-1/4 qt |
| Without reservoir | 9.7 | 10-1/4 qt | 8-1/2 qt |
| Engine | | | |
| With oil filter | 4.5 | 4-3/4 qt | 4 qt |
| Without oil filter | 4.0 | 4-1/4 qt | 3-1/2 qt |
| Transmission | | | |
| M/T 4-speed | 1.7 | 3-5/8 pt | 3 pt |
| 5-speed | 2.0 | 4-1/4 pt | 3-1/2 pt |
| A/T | 5.5 | 5-7/8 qt | 4-7/8 qt |
| Differential carrier | | | |
| R200 | 1.3 | 2-3/4 pt | 2-1/4 pt |
| R180 | 1.0 | 2-1/8 pt | 1-3/4 pt |
| Power steering gear | 1.4 | 1-1/2 qt | 1-1/4 pt |
| Windshield washer tank | 2.8 | 3 qt | 2-1/2 pt |
| Headlight cleaner washer tank | 2.0 | 2-1/8 qt | 1-3/4 qt |
| Air conditioning system | | | |
| Compressor oil | 150 cc | 5.1 fl oz | 5.3 fl oz |
| Refrigerant | 0.9 to 1.1 kg | 2.0 to 2.4 lb | 2.0 to 2.4 lb |

# RECOMMENDED FUEL

Use an unleaded or low-lead gasoline with a minimum octane rating of 91 RON (Research Octane Number).

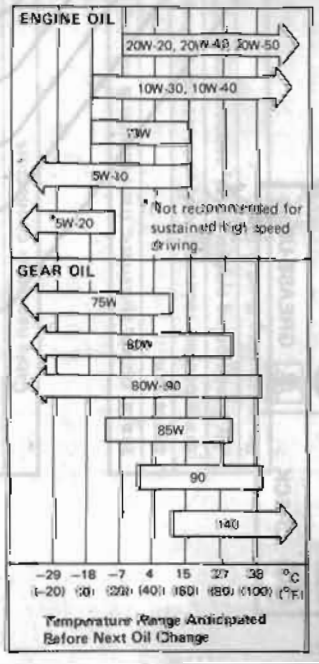
For cars which meet the California regulations (California models), use only unleaded gasoline to protect the catalytic converter from contamination.

# RECOMMENDED LUBRICANTS

## RECOMMENDED LUBRICANTS

| Lubricant | | Specifications | Remarks |
|---|---|---|---|
| Gasoline engine oil | | API SE | Further details, refer to recommended SAE viscosity chart. |
| Gear oil | Transmission and steering | API GL-4 | |
| | Differential | API GL-5 | |
| Automatic T/M and power steering fluid | | Type DEXRON | ——— |
| Multi-purpose grease | | NLGI No. 2 | Lithium soap base |
| Brake and clutch fluid | | DOT 3 | US FMVSS No. 116 |
| Anti-freeze | | ——— | Ethylene glycol base |

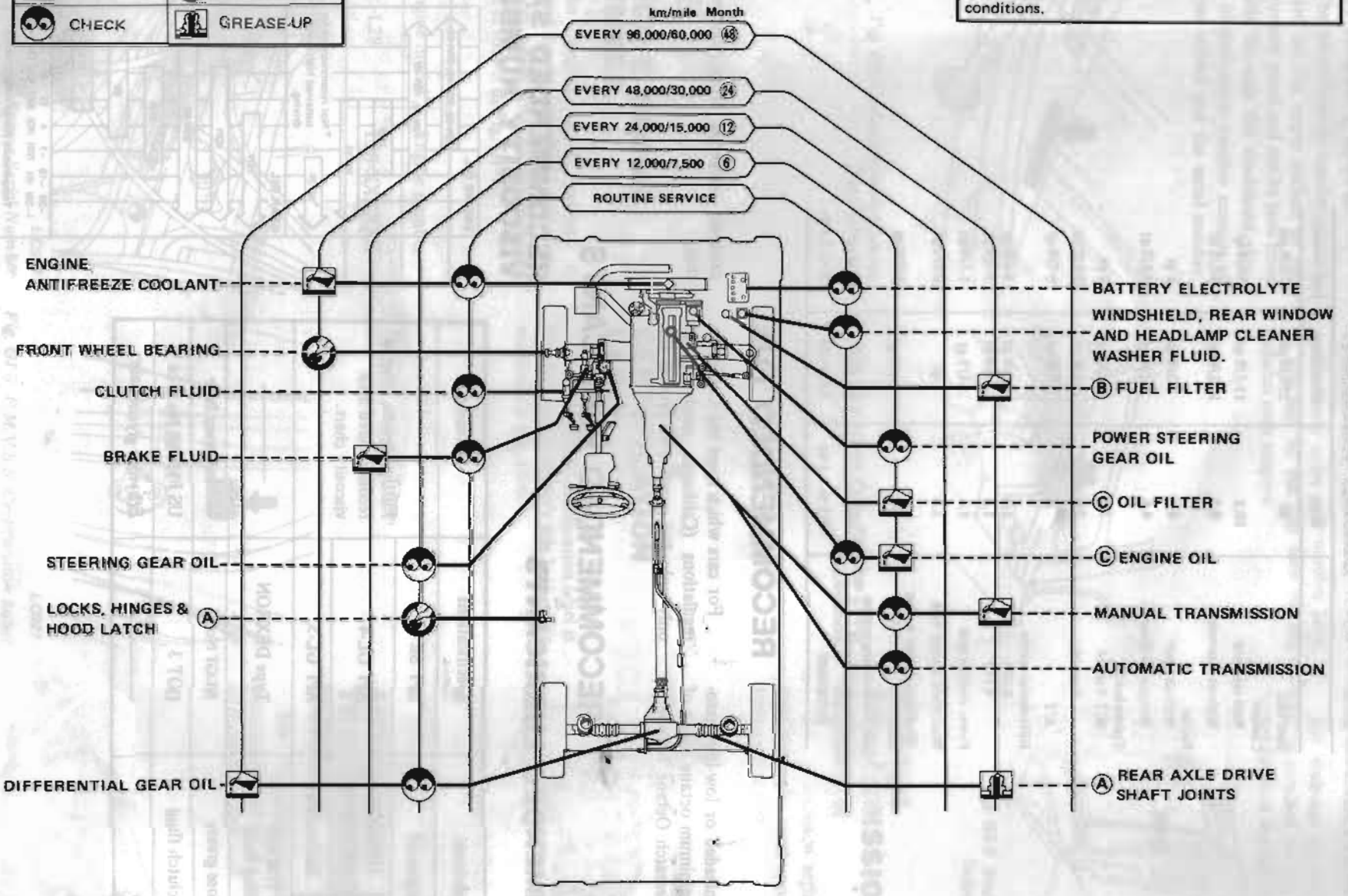
## RECOMMENDED SAE VISCOSITY NUMBER



# LUBRICATION CHART

G1423

| | |
|---|---|
| CHANGE | LUBRICATE |
| CHECK | GREASE-UP |




(B) More frequent maintenance if under dusty driving conditions.

(A) If vehicle is operated in areas using road salt or other corrosive materials, inspect every 5,000 km (3,000 miles) or 3 months, whichever comes first.

(C) If vehicle is operated under severe conditions: short distance driving, extensive idling or driving in dusty conditions, change engine oil every 5,000 km (3,000 miles) or 3 months, whichever comes first.

*Fig. GI-10 Lubrication Chart*

The following tables list the periodic maintenance servicing required to ensure good emission control performance, good engine performance and good mechanical condition in DATSUN.

The first 1,600 km (1,000 miles) service is one of the most important services required to ensure the maximum emission control performance and optimum engine condition.

| MAINTENANCE OPERATION<br>Periodic maintenance should be performed at number of kilometers, miles or months, whichever comes first. | | MAINTENANCE INTERVAL | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Kilometers x 1,000 | 1.6 | 12 | 24 | 36 | 48 | 60 | 72 |
| | (Miles x 1,000) | (1) | (7.5) | (15) | (22.5) | (30) | (37.5) | (45) |
| | Months | – | 6 | 12 | 18 | 24 | 30 | 36 |
| **EMISSION CONTROL MAINTENANCE** | | | | | | | | |
| Intake & exhaust valve clearance | | A | | A | | A | | A |
| Drive belts | | A | | I | | I | | I |
| Engine oil & oil filter | (1) | | R | R | R | R | R | R |
| Engine coolant | | | | | | R | | |
| Cooling system hoses & connections | | | | I | | I | | I |
| Vacuum fitting hoses & connections | | | | I | | I | | I |
| Idle rpm & mixture ratio | idle rpm | A | | A | | A | | A |
| | mixture ratio | I | | I | | I | | I |
| Air regulator hoses | | | | I | | I | | I |
| Fuel filter | (2) | | | | | R | | |
| Fuel lines (hoses, piping, connections, etc.) | | | | | | I | | |
| Air cleaner filter | (2) | | | | | R | | |
| Ignition timing | | | | A | | A | | A |
| Spark plugs | | | | R | | R | | R |
| Ignition wiring | | | | I | | I | | I |
| Positive crankcase ventilation (P.C.V.) valve | | | | | | R | | |
| Ventilation hoses | | | | | | I | | |
| Vapor lines | | | | | | I | | |
| Carbon canister filter | | | | | | R | | |
| Cable harness & connectors | | | | | | I | | |
| **UNDERHOOD MAINTENANCE** | | | | | | | | |
| Brake, clutch, automatic transmission & steering gear fluid or oil level & leaks | | | I | I | I | I | I | I |
| Brake fluid | | | | R | | R | | R |
| Brake booster vacuum hoses, connections & check valve | | | | | | I | | |
| Air conditioning system hoses, connections & refrigerant leaks | | | | | | I | | |
| Power steering fluid & lines | | | I | I | I | I | I | I |

| MAINTENANCE OPERATION | | MAINTENANCE INTERVAL | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Periodic maintenance should be performed at number of kilometers, miles or months, whichever comes first. | Kilometers x 1,000 | 1.6 | 12 | 24 | 36 | 48 | 60 | 72 |
| | (Miles x 1,000) | (1) | (7.5) | (15) | (22.5) | (30) | (37.5) | (45) |
| | Months | – | 6 | 12 | 18 | 24 | 30 | 36 |
| **UNDER VEHICLE MAINTENANCE** | | | | | | | | |
| Brake, clutch, fuel & exhaust systems for proper attachment, leaks, cracks, chafing, abrasion, deterioration, etc. | | | I | I | I | I | I | I |
| Manual transmission oil | | | I | I | I | R | I | I |
| Differential gear oil | (3) | | I | I | I | I | I | I |
| Steering gear box & linkage, suspension parts & propeller shaft for damaged, loose & missing parts | | I | | I | | I | | I |
| Rear axle drive shaft joints | (4) | | | | | L | | |
| **OUTSIDE AND INSIDE MAINTENANCE** | | | | | | | | |
| Rotate wheel position & inspect wheel balance & wheel alignment | | | | I | | I | | I |
| Disc brake pads & other brake components for wear, deterioration & leaks | (4) | | I | I | I | I | I | I |
| Front wheel bearing | | | | | | L | | |
| Locks, hinges & hood latch | (4) | | L | L | L | L | L | L |
| Seat belts, buckles, retractors, anchors & adjuster | | | | I | | I | | I |
| Foot brake, parking brake & clutch for free play & operation | | | I | I | I | I | I | I |

The above charts show the normal maintenance schedule. Depending upon weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage, additional or more frequent maintenance may be required.

Abbreviations: A = Adjust R = Replace
I = Inspect, correct, replace if necessary
L = Lubricate

**NOTE: (1) If vehicle is operated under severe conditions: short distance driving, extensive idling or driving in dusty conditions, change engine oil every 5,000 km (3,000 miles) or 3 months, whichever comes first.**

**(2) More frequent maintenance if under dusty driving conditions.**

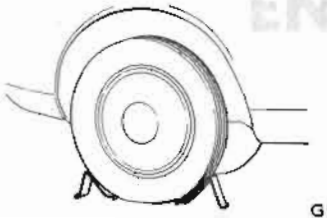
**(3) Replace differential gear oil every 96,000 km (60,000 miles) or 4 years, whichever comes first.**

**(4) If vehicle is operated in areas using road salt or other corrosive materials, inspect every 5,000 km (3,000 miles) or 3 months, whichever comes first.**

# LIFTING POINTS AND TOWING

## PANTOGRAPH JACK

Place wheel chocks at both the front and back of the wheel diagonally opposite the jack position.

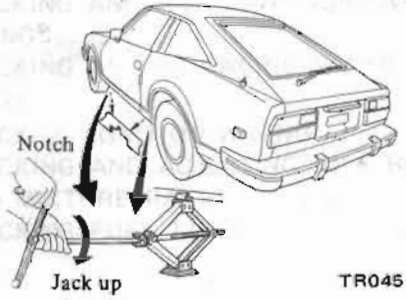


GI085

*Fig. GI-11 Wheel Chocks*

Apply the pantograph jack furnished with the car to the position indicated below in a safe manner. See Fig. GI-12.

**WARNING:**
**a. Never get under the car while it is supported only by the jack. Always use safety stands to support frame when you have to get under the car.**
**b. Block the wheels diagonally with wheel chocks.**




TR045

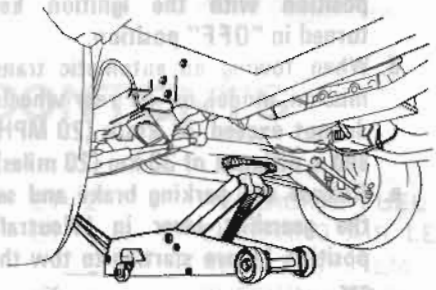
*Fig. GI-12 Jack-Up Points*

## GARAGE JACK AND SAFETY STAND

**WARNING:**
**When carrying out operations with the garage jack, be sure to support the car with safety stands.**

### FRONT SIDE

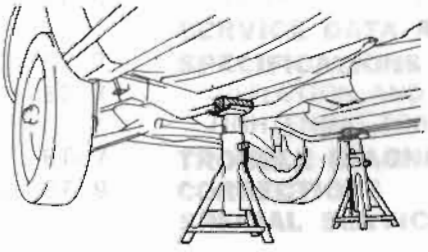
1. When jacking up the front of the car, place the chocks behind the rear wheels to hold them.
2. Apply the garage jack under the front suspension member. Be sure not to lift up the engine oil pan.



GI372

*Fig. GI-13 Front Jack-Up Point*

3. Jack up the car gently just high enough to place the safety stands under both the side members. Place the stands at the position indicated in Fig. GI-14.



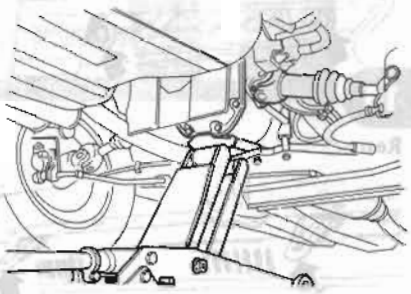
GI373

*Fig. GI-14 Front Supportable Points*

4. Release the jack slowly.

### REAR SIDE

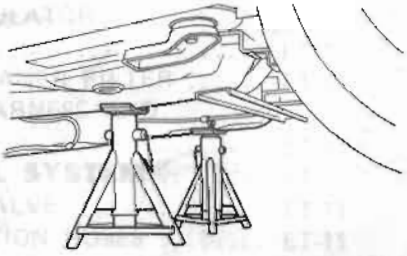
1. When jacking up the rear of the car, place the chocks at the front side of the front wheels to hold them.
2. Apply the garage jack under the differential carrier.



GI413

*Fig. GI-15 Rear Jack-Up Point*

3. Jack up the car gently just high enough to place the safety stands under both the side members. Place the stands at the position indicated in Fig. GI-16.



GI414

*Fig. GI-16 Rear Supportable Points*

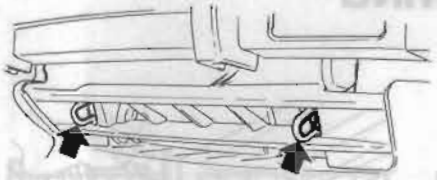
## TOWING

**CAUTION:**
**a. It is necessary to use proper towing equipment, to avoid possible damage to the car during a towing operation.**
**Towing is in accordance with Towing Procedure Manual at dealer side.**
**b. All applicable State or Provincial (in Canada) laws and local laws regarding the towing operation must be obeyed.**

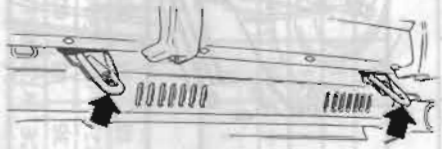
Front towing hooks are provided on both front side members.

Rear towing hooks are combined with shock absorber for rear bumper.

Front



Rear



TC011

*Fig. GI-17 Towing Hooks/ Tie-down Hooks*

**CAUTION:**

a. **Before towing, make sure that the transmission, axles, steering system and power train are in good order. If any unit is damaged, a dolley must be used.**
b. **If the transmission is inoperative, tow the car with the rear wheels off the ground, or with the propeller shaft removed.**
c. **When the car is towed with its front wheels on the ground, secure the steering wheel in a straight ahead position with the ignition key turned in "OFF" position.**
d. **When towing an automatic transmission model on its rear wheels, do not exceed 30 km/h (20 MPH) and a distance of 30 km (20 miles).**
e. **Release the parking brake and set the gearshift lever in "Neutral" position before starting to tow the car.**

## TIE-DOWN

Use front and rear towing hooks for tie-down at front and rear sides.

# SPECIAL TOOLS

Special Tools play very important role in the maintenance of cars. These are essential to the safe, accurate and speedy servicing.

The working times listed in the column under FLAT RATE TIME in FLAT RATE SCHEDULE are computed based on the use of Special Tools.

The identification code of maintenance tools is made up of 2 alphabetical letters and 8-digital figures.

The heading two letters roughly classify tools or equipment as:

| | |
|---|---|
| ST00000000: | Special Tool |
| KV00000000: | Special Tool |
| EM00000000: | Engine Overhauling Machine |
| GG00000000: | General Gauge |
| LM00000000: | Garage Tool |
| HT00000000: | Hand Tool |

Refer to Service Bulletin DATSUN 280ZX for Special Tool List and further information on Special Tools.