DATSUN 1805X

SERVICE MANUAL MODEL S110 SERIES







DATSUN

Model S110 Series

FOREWORD

This service manual has been prepared primarily for the purpose of assisting service personnel in providing effective service and maintenance of the model \$110 series.

This manual includes procedures for maintenance, adjustments, removal and installation, disassembly and assembly of components, and trouble shooting.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. If your car differs from the specifications contained in this manual, consult your NISSAN/DATSUN dealer for information.

The right is reserved to make changes in specifications and methods at any time without notice.

NISSAN MOTOR CO., LTD.

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GENERAL INFORMATION MAINTENANCE ENGINE MECHANICAL EM ENGINE LUBRICATION & COOLING SYSTEMLC ENGINE FUELEF ENGINE REMOVAL & INSTALLATIONER ENGINE CONTROL, FUEL & EXHAUST SYSTEM.....FE CLUTCH MANUAL TRANSMISSION MT AUTOMATIC TRANSMISSIONAT PROPELLER SHAFT & DIFFERENTIAL CARRIERPD FRONT AXLE & FRONT SUSPENSIONFA REAR AXLE & REAR SUSPENSIONRA BRAKE SYSTEM-BR STEERING SYSTEMST BODY ------RF HEATER & AIR CONDITIONER ELECTRICAL SYSTEM EL

QUICK REFERENCE INDEX



HOW TO USE THIS MANUAL

- This Service Manual is designed as a guide for servicing cars.
- This manual is divided into 18 sections. The first half of the manual presents sections which concern the engine, and the second half presents sections which deal with the chassis and body.
- A OUICK REFERENCE INDEX is provided on the first page. Refer to this index along with the index of the particular section you wish to consult. :
- The first page of each section lists the contents and gives the page numbers for the respective topics.
- SERVICE DATA AND SPECIFICATIONS are contained in each section.
- ➤ TROUBLE DIAGNOSES AND CORRECTIONS are also included in each section. This feature of the manual lists the likely causes of trouble and recommends the appropriate corrective actions to be taken.
- A list of SPECIAL SERVICE TOOLS is included in each section. The special service tools are designed to assist you in performing repair safely, accurately and quickly.
- The measurements 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.
- In the text, the following abbreviations are used:

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

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

(T): Tightening Torque

M/T, A/T: Manual Transmission, Automatic Transmission

The captions CAUTION and WARNING warn you of steps that must be followed to prevent personal injury and/or damage to some part of the car.



IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the mechanic and the efficient functioning of the car.

The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately.

Special service tools have been designed to permit safe and proper performance of service. Be sure to use them.

Service varies with the procedures used, the skills of the mechanic and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by NISSAN must first completely satisfy himself that neither his safety nor the car's safety will be jeopardized by the service method selected.

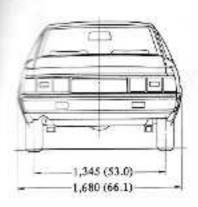


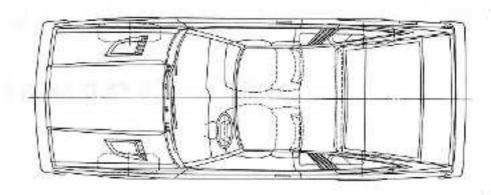
GENERAL INFORMATION

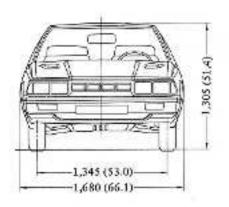
CONTENTS

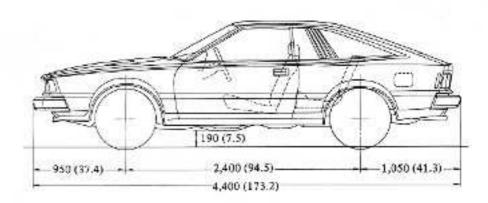
GENERAL VIEWS GI-2	TIE-DOWN GI-6
MODEL VARIATION	TOWING GI-6
IDENTIFICATION NUMBERS GI4	SPECIAL SERVICE TOOLS
LIFTING POINTS AND TOWING GI-6	TIGHTENING TORQUE OF
PANTOGRAPH JACK	STANDARD BOLT

GENERAL VIEWS









Unit: mm (ln)

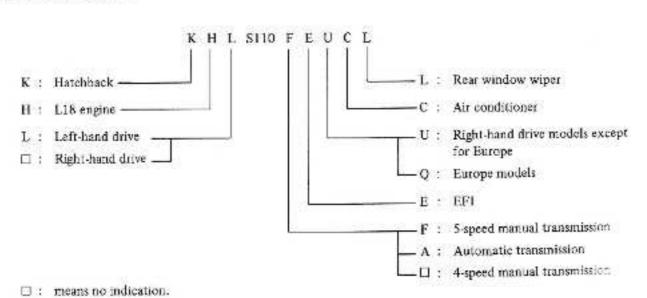
SG1008

MODEL VARIATION

		Model		- Harris	Trans-	Differential	Road wheel Size Offset	Tire
		L.H. drive	R.H. drive	- Engine	mission	carrier	mm (in)	size
Europe	Hatchback	KHLS110FEQ	KHS1:0FEQ	LISE	FS5W63A	Н165В	5J-J4 25 (0.98) 5-1/2JJ-J4*1) T135/ 70D16*2
		KHLS110AEQ	KHS110AEQ		3N71B		25 (0.98) 4-T × 16*2 35 (1.38)	
Except Europe	Hatchback	KHLS110E	KHS110EU		F4W63L		5J-14 25 (0.98)	165SR-14
		KHLS110FE	KHS110FEU		FS5W63A		5J-14 25 (0.98) 5-1/2JJ-14*1 25 (0.98)	185/70-SR14
		KHLS110AE	KHS110AEU		3N71B			

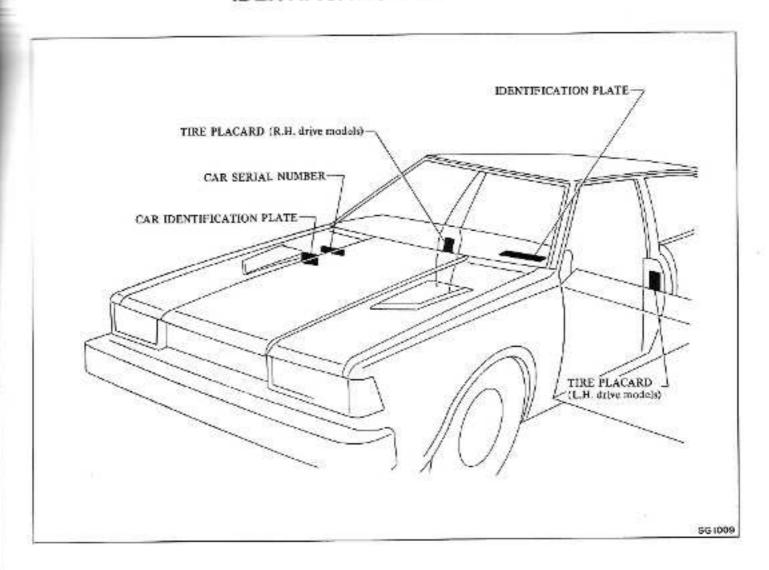
^{*1:} Aluminum wheel (Option)

Prefix and suffix designations

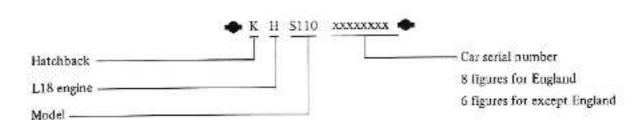


^{*2:} Spare tire for L.H. drive model

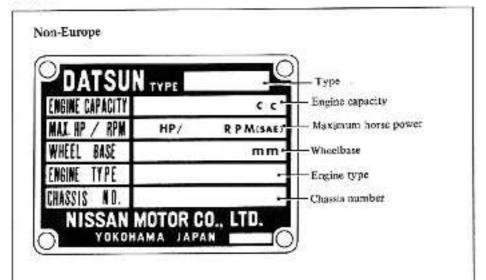
IDENTIFICATION NUMBERS



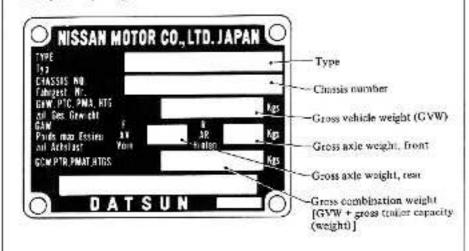
CAR SERIAL NUMBER



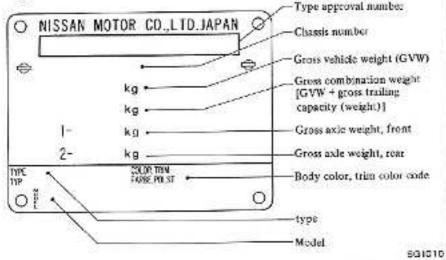
CAR IDENTIFICATION PLATE



Europe except England

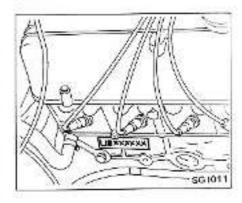


England



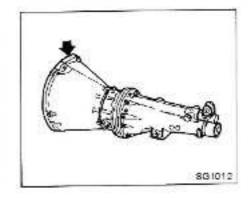
ENGINE SERIAL NUMBER

The engine serial number is stamped on the right side of the cylinder block.



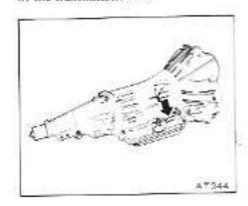
MANUAL TRANSMISSION NUMBER

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

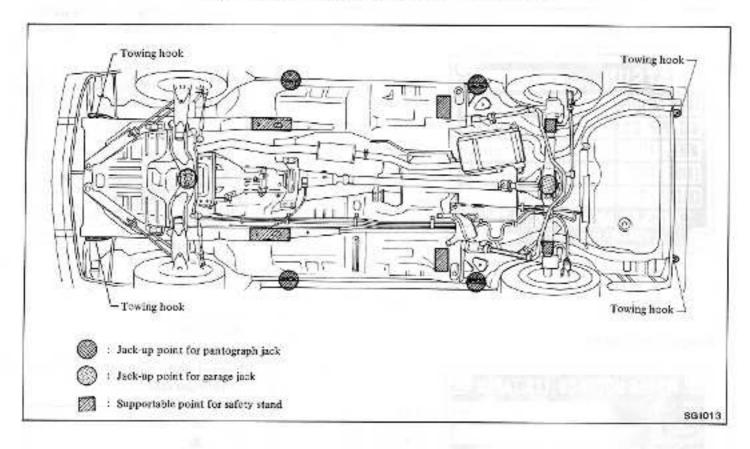


AUTOMATIC TRANSMISSION NUMBER

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



LIFTING POINTS AND TOWING



PANTOGRAPH JACK

WARNING:

- a. Never get under the car while it is supported only by the jack. Always used safety stands to support frame when you have to get under the car.
- Place wheel chocks at both front and back of the wheel diagonally opposite the jack position.

Apply the pantograph jack furnished with the ear to the position indicated below in a safe manner.

GARAGE JACK AND SAFETY STAND

WARNING:

- When carrying out operations with the garage jack, be sure to support the car with safety stands.
- b. When jacking up the rear (front) of the car, place the chocks at the front (rear) of the front (rear) wheels to hold them.

CAUTION:

Always place a wood block between safety stand and car body when supporting body with safety stand.

Apply the garage jack and safety stand to the position indicated below in a safe manner.

TIE-DOWN

FRONT SIDE

Use front towing hooks for tiedown.

REAR SIDE

Use rear towing hooks for tiedown.

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.

- 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.
- If the transmission is inoperative, tow the car with the rear wheels off the ground, or with the propeller shaft removed.
- d. 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.
- 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).
- Release the parking brake and set the gearshift lever in "Neutral" position before starting to tow the car.

SPECIAL SERVICE 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:

HT000000000:

Hand Tool

Special Tools necessary to service operations relating to CHASSIS & BODY of this model are available as a Special Tool Set having the following number.

Special Tool Set: Set 80 S110 GAKV00103500

TIGHTENING TORQUE OF STANDARD BOLT

Grade	Bolt or nut size	Bolt or nut diam- eter* mm	Pitch mm	Tightening torque N·m (kg-m, ft-lb)
	M6	6.0	1.0	2.9 - 3.9 (0.3 - 0.4, 2.2 - 2.9)
	M8	8.0	1.25	7.8 - 10.8 (0.8 - 1.1, 5.8 - 8.0)
			1.0	7.8 - 10.8 (0.8 - 1.1, 5.8 - 8.0)
4T	M10	10.0	1.5	16 - 22 (1.6 - 2.2, 12 - 16)
4.1			1.25	16 - 22 (1.6 - 2.2, 12 - 16)
	M12	12.0	1.75	26 - 36 (2.7 - 3.7, 20 - 27)
			1.25	30 - 40 (3.1 - 4.1, 22 - 30)
	M14	14.0	1.5	46 - 62 (4.7 - 6.3, 34 - 46)
	M6	6.0	1.0	5.9 - 6.9 (0.6 - 0.7, 4.3 - 5.1)
	Mo	8.0	1.25	14 - 18 (1.4 - 1.8, 10 - 13)
	M8		1.0	14 - 18 (1.4 - 1.8, 10 - 13)
77	M10 M12	10.0	1.5	25 - 35 (2.6 - 3.6, 19 - 26)
7 T			1.25	26 - 36 (2.7 - 3.7, 20 - 27)
		12.0	1.75	45 - 61 (4.6 - 6.2, 33 - 45)
			1.25	50 - 68 (5.1 - 6.9, 37 - 50)
	M14	14.0	1.5	76 - 103 (7.7 - 10.5, 56 - 76)
	M6	6.0	1.0	7.8 - 10.8 (0.8 - 1.1, 5.8 - 8.0)
	М8	8.0	1.25	19 - 25 (1.9 - 2.5, 14 - 18)
			1.0	20 - 27 (2.0 - 2.8, 14 - 20)
9T	M10	10.0	1.5	36 - 50 (3.7 - 5.1, 27 - 37)
24			1.25	39 - 51 (4.0 - 5.2, 29 - 38)
	M12	12.0	1.75	65 - 88 (6.6 - 9.0, 48 - 65)
			1.25	72 - 97 (7.3 - 9.9, 53 - 72)
	M14	14.0	1.5	109 - 147 (11.1 - 15.0, 80 - 108)

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

Grad	e 1	Mark
4T		. 4
7T		. 7
9T	***************************************	9

*: Nominal diameter

