DATSUN

240Z SPORTS

SERVICE MANUAL

MODEL S30 SERIES
CHASSIS & BODY





NISSAN MOTOR CO., LTD. TOKYO, JAPAN

QUICK REFERENCE INDEX GENERAL INFORMATION GI ENGINE REMOVAL & INSTALLATION CLUTCH TRANSMISSION TM PROPELLER SHAFT --- PD DIFFERENTIAL CARRIER FRONT AXLEFA & FRONT SUSPENSION REAR AXLE & REAR SUSPENSION BRAKE WHEEL AND TIRE WT **STEERING** TZ ENGINE CONTROL, FUEL & EXHAUST SYSTEM FE BODY BF BODY ELECTRICAL BE SERVICE EQUIPMENT SE

SERVICE MANUAL

DATSUN 240Z SPORTS MODEL S30 SERIES

CHASSIS & BODY



NISSAN MOTOR CO., LTD. TOKYO, JAPAN

SECTION GI

MODEL IDENTIFICATION		GI-	2
IDENTIFICATION NUMBER		GI-	2
GENERAL SPECIFICATIONS		GI-	4
PERIODICAL MAINTENANCE		GI-	6
RECOMENDED LUBRICANTS		GI-	9
APPROXIMATE REFILL		GI-1	0
JACKING UP AND TOWING	***************************************	GI-1	1

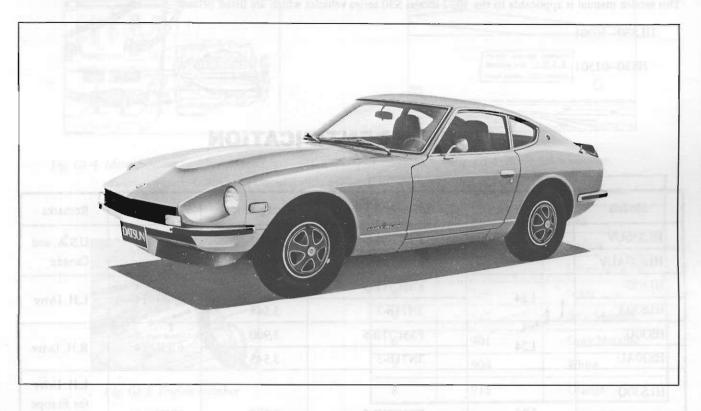


Fig. GI-1 DATSUN 240Z SPORTS (Model HLS30-U)

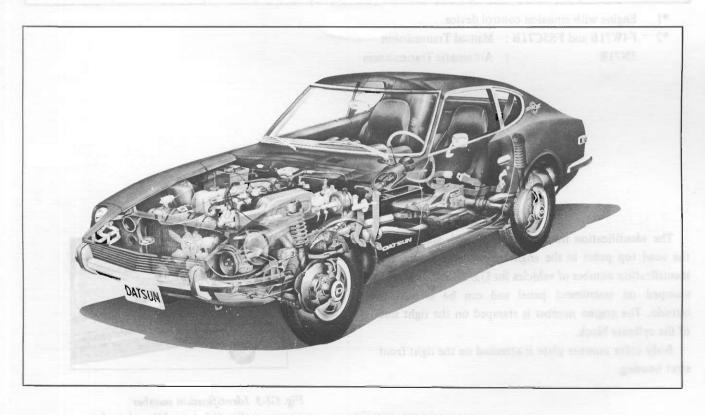


Fig. GI-2 Clairvoyant view (Model HLS30-U)

This service manual is applicable to the 1972 model S30 series vehicles which are listed below:

HLS30-46001

HS30-01501

MODEL IDENTIFICATION

Models	Engine type	Transmission type-speed *2	Final gear ratio	Tire size	Remarks
HLS30UV	10141	F4W71B-4	3.364	175110	U.S.A. and
HLS30AUV	L24*1	3N71B-3	3.545	175HR-14	Canada
HLS30	124	FS5C71B-5	3.900	C 4511 1 4	I II D
HLS30A	L24	3N71B-3	3.545	6.45H-14	L.H. Drive
HS30U	124	FS5C71B-5	3.900	(4511 1 4	D.H. D.
HS30AU	L24	3N71B-3	3.545	6.45H-14	R.H. Drive
HLS30Q	1.24	ESSOZID S	2 000	175UD 14	L.H. Drive for Europe
HS30Q	L24	FS5C71B-5	3.900	175HR-14	R.H. Drive

*1 Engine with emission control device.

*2 F4W71B and FS5C71B: Manual Transmission
3N71B: Automatic Transmission

IDENTIFICATION NUMBER

The identification number is, in general, stamped on the cowl top panel in the engine compartment, and the identification number of vehicles for U.S.A. and Canada is stamped on instrument panel and can be seen from outside. The engine number is stamped on the right side of the cylinder block.

Body color number plate is attached on the right front strut housing.

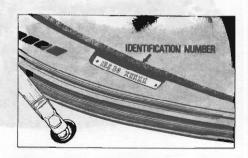


Fig. GI-3 Identification number (For U.S.A. and Canada only)

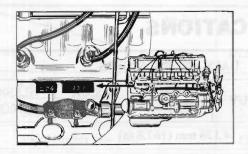


Fig. GI-4 Identification number (For all countries except U.S.A. and Canada)

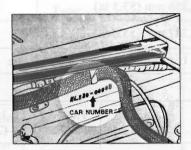


Fig. GI-5 Engine number

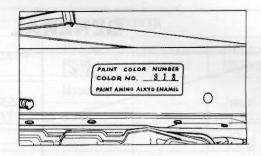


Fig. GI-6 Body color number

В	ody color number	Body color
1	110	Red
2	112	Yellow
3	113	Green Metallic
4	114	Gold
5	115	Blue Metallic
6	901	Gray Metallic
7	904	White
8	918	Orange

GENERAL SPECIFICATIONS

/		Model		DAT	SUN 240Z SP	ORTS	-/4
	Item		HLS30UV	HLS30AUV	HLS30 HS30	HLS30A HS30AU	HLS30Q HS30Q
	Overall l	ength		4,1	36 mm (162,8 i	in)	
	Overall v	vidth	133103	1,0	530 mm (64.1 in	1)	. 10. 11.
Į.	Overall h	neight		1,2	283 mm (50.5 in		8
Veigh	Wheel ba	ise		2,3	305 mm (90.7 in	1)	Kenarla
15 & 1	Tread	Front		1,3	356 mm (53.3 in	1)	
Dimensions & Weight	rread	Rear		1,3	347 mm (53.0 in	1)	Carrida
Dime	Minimun	n road clearance	1800 (180	- 1	161 mm (6.3 in)		
	Seating of	capacity	1871JB3		2		
	Vehicle	weight	1,066 kg (2,350 lb)	1,089 kg (2,400 lb)	1,043 kg (2,300 lb)	1,045 kg (2,370 lb)	1,043 kg (2,300 lb)
Performance	Maximur	m speed	200 km/h (125 mph)	185 km/h (116 mph)	205 km/h (129 mph)	185 km/h (116 mph)	205 km/h (129 mph)
rform	Maximu	m grade ability (Sin θ)	0.436	0.428	0.436	0.428	0.436
Pel	Minimur	n turn radius			4.8 m (15.7 ft	()	for Hungar
	Engine n	nodel	L24	1*1		L24	
	Clutch ty	ype	Dry single disc Diaphragm spring.		Dry single disc Diaphragm spring.		Dry single disc Diaphragm spring.
	Model		F4W71A	3N71B	FS5C71B	3N71B	FS5C71B
	Synchro	type	Warner		Servo		Servo
	Control	system			Floor shift		
ion		1 st	3.592	2.458	2.906	2.458	2.906
Transmission	ideal Com	2nd	2.246	1.458	1.902	1.458	1.902
Tran	Gear	3rd	1.415	1.000	1.308	1.000	1.308
	ratio	4th	1.000		1.000		1.000
	The engle	5th	-		0.864		0.864
	ledar Nex	Reverse	3.657	2.182	3.820	2.182	3.820

^{*1} Engine with emission control device

		Model	FRIME	D/	ATSUN 240Z SE	PORTS						
)	tem	8	HLS30UV	HLS30AUV	HLS30 HS30	HLS30A HS30AU	HLS30Q HS30Q					
Final gear	Gear typ	e x x x x x x	XXXX		Hypoid gear							
Fina	Gear rati	o	3.364	3.545	3.900*2	3.545	3.900					
	Speedon	neter gear ratio	17/6		19/6		19/6					
		Туре	I I S X A	1	ndependent strut	type	413					
_	Front	Spring	9 8 0 0	(Coil spring	Fig. la 8	201					
nsior		Shock absorber type	> & & =	Т	elescopic double	-acting	明日					
Suspension	134	Туре	XXX		ndependent strut	type	RIT					
31	ar	Spring		× (Coil spring	2 m - n	a La					
	Rear	Shock absorber type		le le le T	elescopic double	-acting						
		Drive shaft		В	Ball spline							
HOUSE	Front		x x X	C	Girling-Sumitomo	S-16 type Disc	brake					
1808	Rear		Leading training type with Self-adjuster									
stem		Drum	1 8	×A	duminum drum v	vith fins	o l					
Brake system	Parking			M	lechanical operate	ed on rear whe	els					
Bra	Master V	ac		6	in							
	Master cy	linder et al.		7	/8 in tandem Mas	ster cylinder						
	Skid con	trol valve		P	roportioning valv	e						
nk	Tank cap	acity		6	0 & (15 % U.S	. gal. 13 1/4 Im	nper. gal.)					
Fuel tank	Reservoir	tank capacity	* 4.2 L (1 ½ 3/8 Imper. gal				60					
	Battery	1160	N50	Z	N50)	N50Z					
ring	Gear type	A SE		R	ack-and-pinion		400					
Steering	Lock to l	ock		192	2.7	1 2 3	8 Bel					
ire	Cina	是 2 2 2 3	175HR	-14	6.45H14-	4PR	175HR-14					
Wheel & Tire	Size		WELLOW TO THE RE		165HR- 6.95H1							
Whe	Rim size	12 12 12		1	14-5J		19211					

For U.S.A. California Option: 3.545, 3.700

PERIODICAL MAINTENANCE

OFINOR CINITACIDAL I			10		2	MAINTENANCE INTERVAL	FNA	NCE	NTE	3VAL		
LUBRICALING POINTS	-	ಬ	10	15	20	25	30	35	40	45	20	
Number of thousands of Kilometers				55	09	65	70	75	80	82		
	SHEET	spen	2 11				06		hr	92	214	100
R. B.	9.0	က	9	6	12	15	18	21	24	27	30	
Number of thousands of Miles	(Je)e	ilw.	93)	33	36	39	42	45	48	51		
M moir	(Sq.	112.113	gmr	mol			54	du		22		99,
Change engine oil	×	×	×	×	×	×	×	×	×	×	×	×
Change or check transmission & differential gear oil level, top up if necessary	œ	×	×	×	×	×	×	×	×	×	Œ	æ
Check automatic transmission fluid level, top up if necessary	×	×	×	×	×	×	×	×	×	×	×	×
Change brake fluid reservoir	13.6	RI		81	×				×			×
Change cooling water		1)	×		×		×		×		×	×
Change cooling water (L.L.C.)		- (×			
Grease distributor shaft & cam heel		36	×	085	×		×		×		×	×
Check SU-carburetor damaper oil level, top up if necessary	128	×	×	×	×	×	×	×	×	×	×	×
Lubricate accelerator linkage)	×		×		×		×		×	×
Lubricate foot operated pedal bushings					×				×			×
Grease parking brake linkage	0.4	(12		10				THE	×			
Grease steering linkage ball joints	16	l n					16	P			×	×
Grease suspension ball joints		h)			31 11		33.	lone	1.5		×	×
Change steering gear housing grease reservoir						27		el din		1031	×	×
Repack wheel bearing grease	0.	Mit	200	01		81113	99	de la	ynhy		×	×
Grease rear axle drive shaft joints & ball spline	128	el :		i la	na .a	ŋg.	T	de	g2		×	×
Grease propeller shaft joints	-67										×	×
Lubricate all locks and hinges	mis est	1	×	inl	×	200	×		×		×	×

Replacement

LUBRICATION CHART

CHECKING CHART

	×				MAINTENANCE INTERVAL	TENA	NCE	INTE	RVAL			×
ENGINE SERVICE POINTS	-	2	10	15	20	25	8	35	40	45	20	N.
Number of thousands of Kilometers	×			55	09	65	70	75	80	82		
STATE OF THE PARTY			0		×		90		×	92		100
01/0	9.0	m	9	6	12	15	18	21	24	27	30	
Number of thousands of Miles				33	36	39	42	45	48	51		1
MANUAL SECOND COST SECONDS					24		54			22	1	90
Replace carburetor air cleaner element	×				36				×		×	×
Check or replace spark plugs		×	×	×	R	×	×	×	œ	×	×	R
Check or replace distributor breaker points		×	×	×	æ	×	×	×	œ	×	×	R
Replace oil filter	×		×		×		×		×		×	×
Replace cartridge type fuel strainer									×			
Retighten cylinder head bolts and manifold nuts	×								×			×
Adjust valve clearance	×		×	3	×		×		×		×	×
Check and adjust ignition timing	×	×	×	×	×	×	×	×	×	×	×	×
Check high tension cables		×	×		×				×			×
Check fan belt tension	×		×		×		×		×		×	×
Adjust engine idling	×	×	×	×	×	×	×	×	×	×	×	×
Engine tune-up	×		×		×		×		×		×	×
Check fuel line (hoses, pipings, connections, etc.) for leaks	×	×	×	×	×	×	×	×	×	×	×	×
Check engine for oil and water leaks	×		×	F	×		×	286	×		×	X
Check battery specific gravity	×	00	de	10	×	al			×	16	B	×
Check air pump belt tension	×	×	×	×	×	×	×	×	×	×	×	×
Check hose & piping connections for loose (A.I.S. & P.C.V.)					×	0.00			×			×
Check air pump for operation		, G	4		×	9			×		8	X
Check emission control valves for operation					×				×			X

R: Replacement

CHASSIS & BODY SEBVICE DOINTE					MAI	VTEN	MAINTENANCE INTERVAL	IN	ERV,	AL		
SENVICE	-	2	01	15	20	25	30	35	40	45	20	
Number of thousands of Kilometers	2		8	22	09	65	90	75	80	92		100
Chief Broad the cult fitting A	9.0	m	9	6	12	15	18	21	24	27	30	
Number of thousands of miles	100	Г	R	33	36	39	42	45	48	51	ŀ	
Charles group than thought farbodle contract ports and 14th seep 9	×	×	×	×	×		54	×	- N	22	1	09
Check clutch & brake pedal free play	×	X	×		×		×		×	3	×	×
Check clutch & brake system (cylinders, hoses, pipings, connections, etc.) for leaks or defects	×	×	×	×	×	×	×	×	×	×	×	×
Check foot & hand brake operation		×	×	×	×		×	12	×	×	×	×
Check brake linings and liners for wear	×	×	×	ğ	×	1	×	1 A	×	×	×	×
Check disc brake pads	×		×	×	×	×	×	×	×	×	×	×
Check Master-Vac for operation	×				×				×			×
Overhaul Master-Vac				×		134		X	×	×	×	
Overhaul brake cylinders & caliper assembly	X	1.38	13	×			Ř	×	i ş	×	×	×
Check P-valve for operation		ğ	×	Ķ	20	Ų	×	Ž	70	×	×	×
Check hydraulic shock absorber		×	×	Į.	×	ł ×	l x	×	×		N	×
Check and retighten suspension parts	×		×		×		×		×		×	×
Check and retighten steering gear box and linkage	×		×		×		×		×		×	×
Adjust front wheel bearing pre-load						9		9	1		×	×
Check wheel discs for damage	0.0		×		×	0	×		×		×	×
Check wheel balance and rotate wheel position			×		×		×		×		×	×
Check front wheel alignment and turning angle					×		8		×	3		×
Retighten propeller shaft universal joint flange bolts	×				×	1 1		N F	×	13		×
Check head light aiming				d				Ħ			×	×
Road test	×		×	ľ	×		×		>		>	×

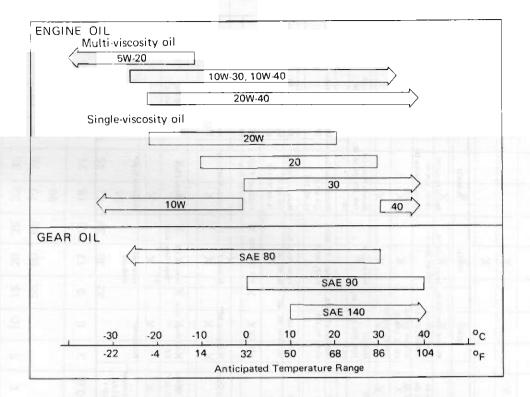
RECOMENDED LUBRICANTS

PRO	Casoline	а	COLL Transmis- sion & Steering	Differential	Automatic T/M Fluid	Multi- purpose grease	Brake & Clutch Fluid	Antifreze (
PRODUCING	Multigrade SD MIL-L-2104B	Monograde SD MIL-L-21048	API GL-4 MIL-L-2105	API GL-5 MIL-L-21058	Type DEXRON Autran DX (3N71B A/T)	Lithium soap NLGI 2	SAE J1703a	Antifreer Consunt (L.J.C.) Antifrox
BP	Super Viscostade 5W-20, 10W-40, 20W-50	Energol HD Oil 10W, 20W, 30, 40	Gear Oil EP 80, 90, 140	Limstip 90-1 90	N Autran DX	Energresse L.2*	Disc Brake Fluid	Antiliost
CALTEX	Custom Five Star Motor Oil 10W-30, 10W-40, 20W-40, 20W-50	Not available	Universal Thuban 80, 90, 140	3450 Gear Oil 90 Multipurpose Thuban EP 80, 90, 140	Texamatic Fluid DEXRON	Marfak Multipurpose 2*	Heavy Duty Brake Fluid	Startex Antifreeze Coolant
CASTROL	Castrolite 10W-30 XL 20W-40	SHD, 10HD, 20HD, 30HD, 40HD, S0HD	Hypoy 80, 90, 140	Hypoy LS	TQ DEXRON	LM Grease*	G.B.F. Crimson Girling B.F. Green GT (LMA)	Antifreeze
CHEVRON	Suprema Motor Oil 5W-30, 10W-30, 10W-40	Special Motor Oil 10W, 20W-20, 30, 40, 50	Multiservice Gear Lub. Gear Oil GP 75, 80, 90, 140 80, 90, 140	Universal Gear Lub. 75, 80, 90, 140	ATF	Automotive Grease Medium*	Atlas Brake Fluid Super Heavy Duty 450	Atlas Perma Guard Antifreeze*
ESSO	Uniflo 5W-30, 10W-40 Extra Motor Oil 5W-20, 10W-30, 20W-40	Not available	6. Gear Oil GP 80, 90, 140	Gear Oil GX 80, 90, 140	ATF	Multipurpose Grease* Mobilgrease MP*	Brake Fluid HD400, 500 "HD400, 450"	Antifreeze* "Long Life Coolant"* "Atlas Long Life Coolant RAD"*
MOBIL	Mobiloil Super 5W-30, Super Motor Oil 5W-40, 10W-40, 10W-40, 10W-50, 20W-50 Mobiloil Special 5W-20, 10W-30, 20W-50, 20W-50	Mobiloil 10W, 20W-20, 30, 40, 50	Mobilube EP or GX 80-90, 90, 140	Mobilube HD 80, 80-90, 90, 140	ATF 220	Mobilgrease MP*	Super Heavy Duty B.F.	Permazone*
SHELL	Super Motor Gil 10W-40, 20W:50	Not available	Spirax 75EP, 80EP, 90EP, 140EP	Spirax Heavy Duty 80, 90, 140	ATF DEXRON	Retinax A	Donax B, HB "Saper Heavy Duty B.F."	Glyeoshell* Shellzone
SUNOCO	Special Motor Oil 5W-30, 10W-40 Dynalube Motor Oil 10W-30	Sunlube Motor Oil 10W, 20W-20, 30, 40, 50	Multipurpose Gear Lub. GL-4 80, 90, 140	Multipurpose Gear Lub. GL-5 75, 80, 90, 140	Transmatic Fluid DEXRON Type	Prestige II WB-500*	460 Brake Fluid	Permanent Type*
TEXACO	Havoline Super Premium SW-30, 10W-40, 20W-50	Havoline Motor Oil 16W, 20W-20, 30, 40, S0	Universal Gear Lub. EP 80, 90, 140	3450 Gear Oil 90 Multigear Lub. EP 80, 90, 140	Texamatic Fluid DEXRON	Marfak Multipurpose 2*	Super Heavy Duty Motor Vehicle B.F.	Antifreeze Coolant* Startex Antifreeze Coolant*
TOTAL	GT\$ 10W-30, 20W-40, 20W-50	Super HD 10W, 20W-20, 30, 40, 50	Extreme Pression 80, 90, 140	Extreme Pression Type B 80, 90, 140	DEXRON	Multis*	Brake Fluid	Antigel*

[&]quot; is only for U.S.A. and CANADA.

* In case the above brand oils are not available, it is permissible to use oils marked*

RECOMENDED LUBRICANTS



APPROXIMATE REFILL CAPACITIES

		Liters	U.S. Measure	Imper. Measure
Fuel tank		60	15 7/8 gal.	13 1/4 gal.
Engine cooling system		8	2 1/8 gal.	1 3/4 gal.
Engine crank case *	1	5.0	5 1/4 qts.	4 3/8 qts.
T	Manual	1.5	3 1/8 pts.	2 5/8 pts.
Transmission case	Automatic	5.5	5 7/8 qts.	4 7/8 qts.
Differential case	1 12	1.0	2 1/8 pts.	1 3/4 pts.

^{*1.} Includes 1 7/8 U.S. pts., (1 5/8 Imper. pts., 0.9 liter) required for oil filter replacement.

JACKING UP AND TOWING THE CAR

CONTENTS

JACK	UP														GI-11
Pan	togr	aph	ja	ck		 									GI-11
Gara	age i	ack													GI-11

JACK UP

Pantograph jack

Apply a jack to the indicated position where sill flange is cut for identification. Do not jack up other position.

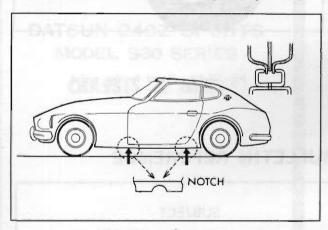


Fig. GI-7 Jacking point

Garage jack

The front jacking point is center of front suspension member and rear is differential gear carrier.

Do not apply a jack to center portion of front suspension transverse link

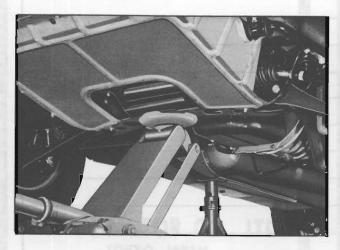


Fig. GI-8 Front jacking point



Fig. GI-9 Rear jacking point

Supportable point

Front supportable points for stand are both front side members. Rear supportable points are both sides of front differential mounting cross member.

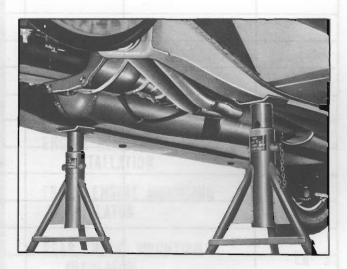


Fig. GI-10 Front supportable point

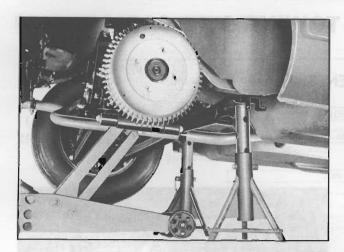


Fig. GI-11 Rear supportable point

TOWING

Tow forward at hook as shown in Figure GI-11. Do not tow at front suspension member or transverse link. Be careful not to apply impact load to the hook.

Admittable load of hook is less than 1,000 kg (2,205 lb).



Fig. GI-12 Front towing point

SERVICE JOURNAL OR BULLETIN REFERENCE

JOURNAL or BULLETIN No.	PAGE No.	SUBJECT
nie polius You stand not	erio gua Togo, I	The latest and the state of the
The World For Years and Interest	Lastom-Tile Inc.	2 176 gal. 1 2/4 pai
	3.0	S led all prime pay betrayable a can any admi-
Marilia Marilia		Do not upper a just to center portent of front
ξ\		
	10-1-12	
	BULLETIN No.	BULLETIN No. PAGE No.