

Service Manual Datsun Model 411 Series

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DATSUN

MODEL 411 SERIES



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SERVICE

MANUAL



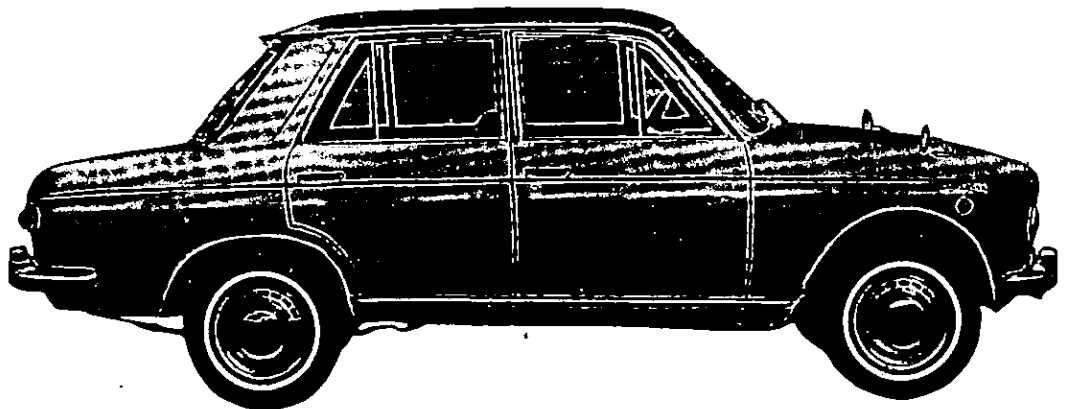
NISSAN MOTOR CO., LTD.
OTEMACHI BLDG., OTEMACHI, CHIYODA-KU,
TOKYO, JAPAN

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INTRODUCTION

This manual has been compiled for the purpose of assisting *DATSUN* distributors and dealers for effective service and maintenance of the Model P(L)411. Each assembly of the major components is described in detail. In addition, comprehensive instructions are given for complete dismantling, assembling and inspection of these assemblies.

It is emphasised that only genuine *DATSUN* Spare Parts should be used as replacements.



DATSUN MODEL (L) 411 - U

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MAJOR SPECIFICATION OF MODEL 411 SERIES

MODEL		P(L)411-U P(L)411-UT	WP(L)411-U WP(L)411-UT	
ITEM				
DIMENSIONS	Overall Length	3,995 mm (157.3 in.)	3,995 mm (157.3 in.)	
	Overall Width	1,490 mm (58.7 in.)	1,490 mm (58.7 in.)	
	Overall Height	1,440 mm (56.7 in.)	1,430 mm (56.3 in.)	
	Wheel Base	2,380 mm (93.7 in.)	2,380 mm (93.7 in.)	
	Room Space	Inner Length	1,710 mm (67.3 in.)	1,704 mm (67.1 in.)
		Inner Width	1,240 mm (48.8 in.)	1,240 mm (48.8 in.)
		Inner Height	1,130 mm (44.5 in.)	1,130 mm (44.5 in.)
	Tread	Front	1,206 mm (47.5 in.)	1,206 mm (47.5 in.)
		Rear	1,198 mm (47.2 in.)	1,198 mm (47.2 in.)
	Min. Road Clearance	175 mm (6.9 in.)	175 mm (6.9 in.)	
	Overhang to the Front End without bumper	605 mm (23.8 in.)	605 mm (23.8 in.)	
	Overhang to the Rear End without bumper	950 mm (37.4 in.)	947 mm (37.3 in.)	
WEIGHT	Vehicle Weight	885 kg (1951 lb.)	960 kg (2116 lb.)	
	Distribution	Front	505 kg (1113 lb.)	500 kg (1102 lb.)
		Rear	380 kg (838 lb.)	460 kg (1014 lb.)
	Vehicle Gross Weight	1,160 kg (2557 lb.)	1,235 kg (2723 lb.)	
	Distribution	Front	600 kg (1323 lb.)	595 kg (1312 lb.)
		Rear	560 kg (1234 lb.)	640 kg (1411 lb.)
	Height of Gravity Center	580 mm (22.8 in.)	580 mm (22.8 in.)	
	Proportion of Front Tire with load	51.7 %	48.2 %	
	Max. Inclination	Right	46	46
Angle	Left	46	46	

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ITEM	MODEL	P(L)411-U	WP(L)411-U
		P(L)411-UT	WP(L)411-UT
PERFORMANCE	Max. Speed	140 km/H (87 MPH)	140 km/H (87 MPH)
	Fuel Consumption	18.5 km/ℓ	18.5 km/ℓ
	Grade Ability sinθ	0.375, 0.417 (-UT)	0.334, 0.391 (-UT)
	Min. Turning Radius	5.0 m (16.4 ft.)	5.0 m (16.4 ft.)
	Brake Stopping Distance (50 km/h)	13.5 m (44.3 ft.)	13.5 m (44.3 ft.)
ENGINE	Model	J	
	Make	NISSAN MOTOR CO., LTD.	
	Classification	GASOLINE ENGINE	
	Cooling System	WATER FORCED CIRCULATION	
	No. of Cylinder & Arrang.	4 IN LINE	
	Cycle	4	
	Combustion Chamber	BATHTUB TYPE	
	Valve Arrangement	OVER HEAD VALVE	
	Bore x Stroke	73 x 77.6 mm (2.874 x 3.055 in.)	
	Displacement	1299 c.c. (79.27 cu.in.)	
	Compression Ratio	8.2	
	Compression Pressure	11.5/350 kg/cm ² (r.p.m.)	
	Max. Exploding Pressure	48/3600 kg/cm ² (r.p.m.)	
	Max. Mean Effective Press	9.7/28000 kg/cm ² (r.p.m.)	
	Max. B.H.P. (SAE)	67/5200 HP/r.p.m.	
	Max. Torque (SAE)	76.7/2800 ft-lb/r.p.m. (10.6/2800 kg-m/r.p.m.)	
	Length x Width x Height	597 x 575 x 690 mm (23.1 x 22.6 x 26.5 in.)	
	Weight	139 kg (306 lb.)	
Piston Type	SPLIT SKIRT TYPE		
Piston Material	LO-EX		

MAJOR SPECIFICATION

ITEM		MODEL	P(L)411-U P(L)411-UT	WP(L)411-U WP(L)411-UT
ENGINE	No. of Piston Ring	Pressure Oil	2 1	
	Valve Timing	Inlet Open	14° B.T.D.C.	
		Inlet Close	50° A.B.D.C.	
		Exh. Open	52° B.B.D.C.	
		Exh. Close	12° A.T.D.C.	
	Valve Clearance	Intake	0.35 mm (0.014 in.)	
Exhaust		0.35 mm (0.014 in.)		
BATTERY	Starting Method		MAGNETIC STARTING SYSTEM	
	Type		N41 (14MZ), N50 (2SMB) 1 each	
	Voltage		12V	
	Capacity		40, 50 A.H.	
	Ground Polarity		NEGATIVE	
GENERATOR	Type		AC300/12WR	
	Make		MITSUBISHI	
	Generating Method		ALTERNATOR	
	Voltage		12V	
	Capacity		300 W	
	Voltage Regulator		RL-2B1	
STARTER	Type		S114-92	
	Make		HITACHI	
	Voltage & Power		12-1.4V-HP	
IGNITION SYSTEM (GASOLINE)	Ignition Method		BATTERY-COIL TYPE	
	Ignition Timing		8° /600 B.T.D.C./r.p.m.	
	Firing Order		1-3-4-2	

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ITEM	MODEL		P(L)411-U P(L)411-UT	WP(L)411-U WP(L)411-UT
	IGNITION SYSTEM (GASOLINE)	Ignition Coil	Type	C1Z-18
Make			HITACHI	
Distributor		Type	D411-53	
		Make	HITACHI	
Distributor		Ign. Timing Advance System	VACUUM AND GOVERNOR	
Spark Plug		Type	B-6E	
		Make	NGK	
		Thread	14 mm (0.551 in.)	
		Gap	0.7 ~ 0.8 mm (0.0275 ~ 0.0315 in.)	
Carburetor		Type	D2630A-5A	
		Make	NIHONKIKAKI	
		Throttle Valve Bore	P. 26 mm	S. 30 mm
		Venturi Size	20 mm	27 mm
		Main Jet	#92	#140
		Slow Jet	#48	# 48
		Pump Jet	#45	
		Power Jet	#40	
		Air Draught	DOWN	
Air Cleaner		Type & No.	PAPER TYPE 1 each	
		Make	TSUCHIYA	
Fuel Pump	Type	DIAPHRAGM		
	Make	SHOWA, KYOSAN		
Capacity of Fuel Tank			41 ℓ r (10.8 U.S.gal.)	
LUB- RICA- TION	Lubrication Method		FORCED PRESSURE TYPE	

MAJOR SPECIFICATION

	MODEL	P(L)411-U P(L)411-UT	WP(L)411-U WP(L)411-UT	
LUBRICATION	Oil Pump Type	TROCHOID TYPE		
	Oil Filter	FULL FLOW TYPE (CARTRIDGE TYPE)		
	Oil Pan Capacity	2.9 ℓ r (0.76 U.S.gal.)		
COOLING SYSTEM	Type	WATER COOLING CLOSED TYPE		
	Radiator	CORRUGATED FIN AND TUBE TYPE		
	Cooling Water Capacity	5.4 ℓ r (1.43 U.S.gal.)		
	Water Pump Type	CENTRIFUGAL TYPE		
	Thermostat	PELLET TYPE		
CLUTCH	Type	SINGLE DRY DISC HYDRAULIC OPERATION		
	No. of Plate	1 (FACING 2)		
	Out. dia x In. dia x Thickness	200 x 130 x 3.5 mm (7.87 x 5.12 x 0.138 in.)		
	Total Friction Area	181 x 2 cm ² (28.06 x 2 sq.in.)		
	In. dia. of Operating Cylinder	19.05 mm (3/4 in.)		
	In. dia. of Master Cylinder	15.87 mm (5/8 in.)		
TRANSMISSION	Type	3 FORWARD, 1 REVERSE ALL SYNCHROMESHED ON FORWARD GEARS	4 FOREARD, 1 REVERSE SYNCHROMESHED ON 2ND, 3RD, 4TH	
	Gear Shift Method	REMOTE CONTROL	FLOOR SHIFT	
	Oil Capacity	1.7 ℓ (0.45 U.S.gal.)	2.2 ℓ (0.58 U.S.gal.)	
	Gear Ratio	1st	3.197	3.945
		2nd	1.725	2.402
		3rd	1.000	1.490
		4th		1.000
Reverse		4.125	5.159	
PROPELLER SHAFT	1st Length x Out. dia x In. dia.	1222 x 71 x 67.8 mm		
	Type of Universal Joint	SPICER TYPE		
FINAL GEAR	Gear Type	HYPOID		

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ITEM		MODEL	P(L)411-U P(L)411-UT	WP(L)411-U WP(L)411-UT	
FINAL GEAR	Gear Ratio		4.375 P(L)411-U WP(L)411-U	4.111 (OP.3889) P(L)411-UT WP(L)411-UT	
	Housing Type		BANJO		
DIFF. GEAR	Type & No. of Gear		STRAIGHT BEVEL PINION 2 each		
	Oil Capacity		1 ℓ (0.26 U.S.gal.)		
	Type		RECIRCULATING BALL TYPE		
STEERING SYSTEM	Gear Ratio		15.0		
	Steering Angle	In	36°		
		Out	28° 36'		
	Steering Wheel Dia.		405 mm (15.95 in.)		
	Oil Capacity		0.33 ℓ (0.087 U.S.gal.)		
	RUNNING DEVICE	Wheel Arrangement		2 FRONT, 2 REAR	
Front Axle Type			WISHBONE BALL JOINT TYPE		
Toe-in			3 mm		
Camber			1° 45'		
Caster			0		
Inclination Angle of King Pin			6° 15'		
Rear Axle Type			SEMI-FLOATING TYPE		
BRAKE SYSTEM	SERVICE BRAKE	Type	FRONT: 2 LEADING; REAR: LEADING AND TRAILING		
		Lining Dimension (Width x Thickness x Length)	F.	40 x 4.5 x 215 mm (1.575 x 0.177 x 8.465 in.)	
			R.	40 x 4.5 x 215 mm (1.575 x 0.177 x 8.465 in.)	
		Total Braking Area	F.	351 cm ² (54.4 in ²)	
			R.	351 cm ² (54.4 in ²)	
		In.dia. of Brake Drum	F.	228.6 mm (9.0 in.)	
R.	228.6 mm (9.0 in.)				