

20.00

# DATSUN TRUCK

**MODEL 320**

# SERVICE MANUAL



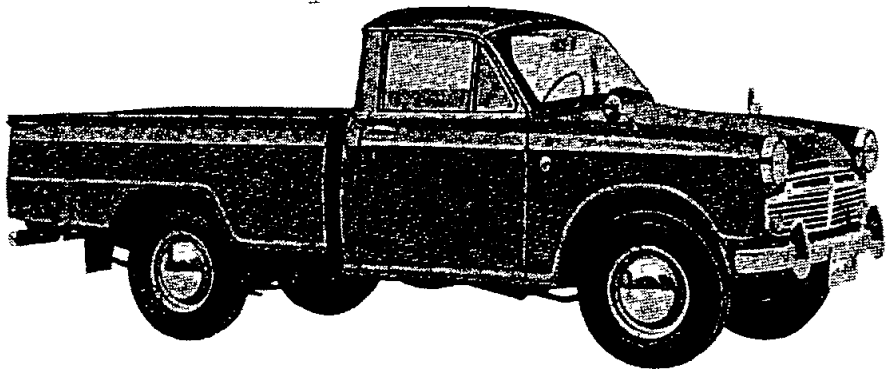
P

**NISSAN MOTOR CO., LTD.**

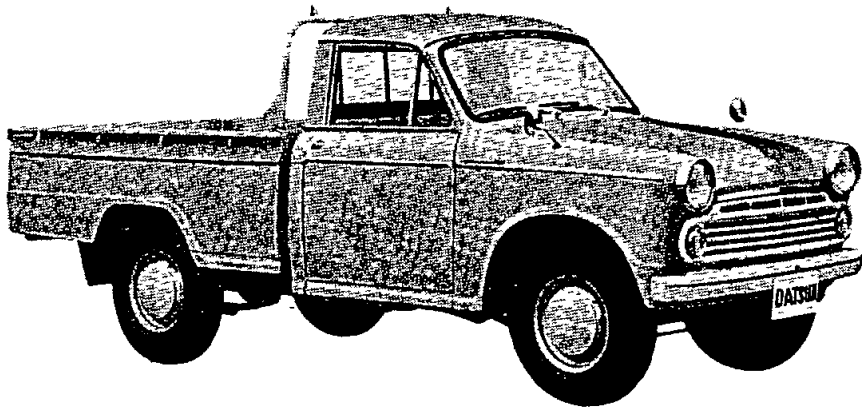
**OTEMACHI BLDG., OTEMACHI, CHIYODA-KU,  
TOKYO, JAPAN**

**CABLE ADDRESS : "NISMO" TOKYO  
PHONES : (211) 5281-9**

**Book Sale**



**MODEL 320-U**



**NEW MODEL 320-U**

# INTRODUCTION

**T**his manual has been compiled for purpose of assisting DATSUN distributors and dealers for effective service and maintenance of the *Model P(L) 320-U*. 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.

# CONTENTS

	Page
SPECIFICATION . . . . .	1~6
ENGINE . . . . .	1
General Specifications . . . . .	1
COOLING SYSTEM . . . . .	3
Lubrication . . . . .	10
Service Operations with Engine in Position . . . . .	15
Rocker Mechanism . . . . .	20
Removing & Refitting . . . . .	34
Operation with the Engine Removed . . . . .	35
FUEL SYSTEM . . . . .	38
The Gasoline Tank . . . . .	39
Fuel Strainer . . . . .	43
Fuel Pump . . . . .	44
Adjustment and Inspection of Engine . . . . .	49
Carburetor . . . . .	54
BRAKER POINT AND IGNITION TIMING ADJUSTMENT . . . . .	59
Distributor . . . . .	59
Adjusting the Ignition Timing . . . . .	61
Checking the Spark Plugs . . . . .	65
CLUTCH . . . . .	66
Clutch . . . . .	67
Description of Clutch Control . . . . .	68
TRANSMISSION . . . . .	76
Transmission . . . . .	77
Disassembling the Case . . . . .	81
Assembling the Transmission . . . . .	87
Selector Inner & Operating Lever Cross Shaft . . . . .	91
PROPELLER SHAFT & UNIVERSAL JOINT . . . . .	93
Propeller Shaft & Universal Joints . . . . .	94
STEERING . . . . .	97
FRONT AXLE . . . . .	106
Front Axle . . . . .	106
Setting of Tension Rod . . . . .	114

	Page
REAR AXLE . . . . .	117
Rear Axle . . . . .	118
Assembling, Adjustment . . . . .	122
BRAKE . . . . .	138
<del>IGNITION SYSTEM . . . . .</del>	<del>147</del>
ELECTRICAL SYSTEM . . . . .	150
Starter Motor . . . . .	164
Battery . . . . .	171

# SPECIFICATIONS

*For Model 320-U*

## VEHICLE DIMENSIONS

Length, overall (approx.)	· · · · ·	· 4,185 mm. (164 8 in.)
Width, overall (approx.)	· · · · ·	· 1,515 mm. ( 59.6 in.)
Height, overall (approx.)	· · · · ·	· 1,505 mm. ( 59.3 in.)
Wheelbase	· · · · ·	· 2,470 mm. ( 97.2 in.)
Tread - - - - Front	· · · · ·	· 1,170 mm ( 46.1 in.)
Rear	· · · · ·	· 1,187 mm. ( 46.7 in.)
Min. road clearance	· · · · ·	· 177 mm. ( 7.0 in.)

## CARGO SPACE DIMENSIONS

Interior length	· · · · ·	· 1,850 mm. ( 72.8 in.)
Interior width	· · · · ·	· 1,427 mm ( 56.2 in.)
Interior height	· · · · ·	· 406 mm ( 16.0 in.)

## WEIGHTS

Dry vehicle weight, (empty)	· · · · ·	945 kg. (2,080 lbs.)
Seating capacity	· · · · ·	2
Max. cargo weight		
Model 320-U	· · · · ·	225 kg. ( 500 lbs.)
Model 320-UN	· · · · ·	500 kg. (1,000 lbs.)
Model 320-UP	· · · · ·	910 kg. (2,000 lbs.)

## PERFORMANCE

Max. speed	· · · · ·	120 KPH (75 MPH)
Grade ability (Sin $\theta$ )	· · · · ·	38%
Min. turning radius	· · · · ·	5.2 m (17 ft)

## ENGINE

Name	· · · · ·	Model E1
Kind	· · · · ·	Gasoline engine
Cylinder - - - No. and arrangement	· · · · ·	4 cyls., in-line
Cycle	· · · · ·	4-cycle
Valve arrangement	· · · · ·	Valve-in-head
Bore x Stroke	· · · · ·	73 x 71 mm. (2.875 in. x 2.796 in.)
Total piston displacement	· · · · ·	1,189 cc. (72.5 cu. in.)
Compression ratio	· · · · ·	8.2
Max. power	· · · · ·	60 HP at 5,000 r. p. m. (SAE)
Max. torque	· · · · ·	9.3 kg-m. (67.3 ft-lb.) at 3,600 r. p. m.
Firing order	· · · · ·	1-3-4-2

Valve timing	
Inlet opening . . . . .	14 deg. B. T. C.
Inlet closing . . . . .	50 deg. A. B. C.
Exhaust opening . . . . .	52 deg. B. B. C.
Exhaust closing . . . . .	12 deg. A. T. C.
Valve clearance - - Both inlet and exhaust, (Hot)	0.35 mm. (0.014 in.)

### IGNITION SYSTEM

Ignition timing . . . . .	10 deg. B. T. C. (600 rpm.)
Spark plugs . . . . .	NGK, Model B-6E, 14 mm.
Spark plug gap . . . . .	0.7-0.8 mm.

### FUEL SYSTEM

	<u>Primary</u>	<u>Secondary</u>
Carburetor . . . . .		
Throttle valve dia. . . . .	28 mm.	30 mm.
Ventiro dia. . . . .	21-8 mm.	25-14-7 mm.
Main jet dia. . . . .	#98	#115
Slow jet dia. . . . .	#48	#40
Power jet dia. . . . .	#40	-
Slow economizer . . . . .	#145	-
Slow air First . . . . .	#100	-
Slow air Second . . . . .	#220	-
Float level . . . . .		19 mm.
Fuel tank capacity . . . . .	35 litres (9.3 U. S. gal.)	

### LUBRICATION SYSTEM

Oil pan capacity . . . . .	3.1 litres (0.86 U. S. gal.)
----------------------------	------------------------------

### COOLING SYSTEM

Cooling water capacity . . . . .	5.4 litres (1.4 U. S. gal.)
----------------------------------	-----------------------------

### BATTERY

Type . . . . .	CF3-12K, 14M2, M39-12
Voltage . . . . .	12 volts
	(2 SMS)
Capacity . . . . .	40 amp. hr. /20 hr.
	(50 amp. hr. /20 hr.)
Terminal grounded . . . . .	+(positive) side

### GENERATOR

Capacity . . . . .	0.2 KW
Voltage-current regulator . . . . .	Carbon-pile type





Brake drum dia. (front and rear) . . . . . 254 mm. (10 in.)  
 Master cylinder bore . . . . . 19.05 mm. (0.77 in.)  
 Wheel cylinder bore -  
   Front wheels . . . . . 19.05 mm. (0.77 in.)  
   Rear wheels . . . . . 19.05 mm. (0.77 in.)

### SUSPENSION SYSTEM

Front suspension . . . . . Wishbone type Independent suspension  
 Front springs . . . . . Torsion bar spring  
 Dimension - (Dia. x Length) . . . . . 20.5 x 664.5 mm.  
 Rear springs . . . . . Parallel, semielliptic leaf spring  
 Thickness - number . . . . .  
   7 mm x 2 }  
   6 mm x 1 }                   for 320-U  
   6 mm - 4 }  
   12 mm - 1 }                   for 320-UN  
   6 mm - 2 }  
   5 mm - 2 }                   for 320-UP with  
   12 mm - 1 }                   helper rubber

Shock absorbers - - - Front . . . . . single action  
   Rear . . . . . single action

### TIRES

Model	Front	Rear
320-U	5.60-14-6PL. T(24 lb.)	5.60-14-6PL. T(30 lb.)
320-UN	5.50-14-6PL. T(22 lb.)	5.50-14-6PL. T(36 lb.)
320-UP	6.00-14-6PL. T(22 lb.)	6.00-14-8PL. T(60 lb.)

**For**

***RUNCH SEDAN (U320) (Double Seat), 2-DOOR ST. WAGON (V320) & N320 (Single Seat)***

**VEHICLE DIMENSIONS**

	U320	V320	N320
Length, overall (approx.)	4,285 mm (168.7 in.)	4,155 mm (163.6 in.)	4,155 mm (163.6 in.)
Width, overall (approx.)	1,497 mm (58.9 in.)	1,497 mm (58.9 in.)	1,497 mm (58.9 in.)
Height, overall (approx.)	1,520 mm (59.8 in.)	1,515 mm (59.6 in.)	1,530 mm (60.3 in.)
Wheel base	2,470 mm (97.2 in.)	2,470 mm (97.2 in.)	2,470 mm (97.2 in.)

**CARGO SPACE DIMENSIONS**

Interior length	880 mm (34.6 in.)	2+1,555 mm (61.2 in.)	1,560 mm (61.6 in.)
Interior width	1,245 mm (49 in.)	5+940 mm (1.180 in)	1,254 mm (49.4 in.)
Interior height	420 mm (16.5 in.)	905 mm (35.6 in.)	430 mm (16.9 in.)

**WEIGHTS**

Vehicle weight	1,000 kg. (2,200 lbs.)	1,020 kg. (2,255 lbs.)	955 kg. (2,100 lbs.)
Seating and loading capacity	5+400 kg. (880 lbs.)	2+500 kg. (1,100 lbs.) 5+300 kg. (660 lbs.)	2+500 kg. (1,100 lbs.)

**TRANSMISSION**

Gear train	High gear, 4 forward, 1 reverse	
Gear ratio	Low 3.94, 2nd 2.40 3rd 1.49, high 1.00 reverse 5.16	Low 3.94, 2nd 2.40, 3rd 1.49, 4th 1.000 Reverse 5.16