



INFINITI®

J30

MODEL Y32 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 1996 (for Canada) and 1997 (for U.S.A.) INFINITI J30.

In order to assure your safety and the efficient functioning of the vehicle, this manual should be read thoroughly. It is especially important that the PRECAUTIONS in the GI section be completely understood before starting any repair task.

All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the technician and the efficient functioning of the vehicle. The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately. Service varies with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by INFINITI must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



I N F I N I T I ®



NISSAN MOTOR CO., LTD.

Overseas Service Department
Tokyo, Japan



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Use this form to report any issues or comments you may have regarding our Service Manuals.

Please photocopy this form and type or print your comments below. Mail or fax to:

Nissan North America, Inc.
Technical Service Information
39001 Sunrise Drive, P.O. Box 9200
Farmington Hills, MI USA 48331
FAX: (810) 488-3910

SERVICE MANUAL: Model: _____ Year: _____

PUBLICATION NO. (Please photocopy back cover): _____

VEHICLE INFORMATION VIN: _____ **Production Date:** _____

Please describe any issues or problems in detail:

Page number(s) _____ *Note: Please include a copy of each page, marked with your comments.*

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What information should be included in INFINITI Service Manuals to better support you in servicing or repairing customer vehicles?

DATE: _____ YOUR NAME: _____ POSITION: _____

DEALER: _____ DEALER NO.: _____ ADDRESS: _____

CITY: _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: _____

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

inches	mm	inches	mm
.100	2.54	.610	15.49
.110	2.79	.620	15.75
.120	3.05	.630	16.00
.130	3.30	.640	16.26
.140	3.56	.650	16.51
.150	3.81	.660	16.76
.160	4.06	.670	17.02
.170	4.32	.680	17.27
.180	4.57	.690	17.53
.190	4.83	.700	17.78
.200	5.08	.710	18.03
.210	5.33	.720	18.29
.220	5.59	.730	18.54
.230	5.84	.740	18.80
.240	6.10	.750	19.05
.250	6.35	.760	19.30
.260	6.60	.770	19.56
.270	6.86	.780	19.81
.280	7.11	.790	20.07
.290	7.37	.800	20.32
.300	7.62	.810	20.57
.310	7.87	.820	20.83
.320	8.13	.830	21.08
.330	8.38	.840	21.34
.340	8.64	.850	21.59
.350	8.89	.860	21.84
.360	9.14	.870	22.10
.370	9.40	.880	22.35
.380	9.65	.890	22.61
.390	9.91	.900	22.86
.400	10.16	.910	23.11
.410	10.41	.920	23.37
.420	10.67	.930	23.62
.430	10.92	.940	23.88
.440	11.18	.950	24.11
.450	11.43	.960	24.38
.460	11.68	.970	24.64
.470	11.94	.980	24.89
.480	12.19	.990	25.15
.490	12.45	1.000	25.40
.500	12.70	2.000	50.80
.510	12.95	3.000	76.20
.520	13.21	4.000	101.60
.530	13.46	5.000	127.00
.540	13.72	6.000	152.40
.550	13.97	7.000	177.80
.560	14.22	8.000	203.20
.570	14.48	9.000	228.60
.580	14.73	10.000	254.00
.590	14.99	20.000	508.00
.600	15.24		

METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

mm	inches	mm	inches
1	.0394	51	2.008
2	.079	52	2.047
3	.118	53	2.087
4	.157	54	2.126
5	.197	55	2.165
6	.236	56	2.205
7	.276	57	2.244
8	.315	58	2.283
9	.354	59	2.323
10	.394	60	2.362
11	.433	61	2.402
12	.472	62	2.441
13	.512	63	2.480
14	.551	64	2.520
15	.591	65	2.559
16	.630	66	2.598
17	.669	67	2.638
18	.709	68	2.677
19	.748	69	2.717
20	.787	70	2.756
21	.827	71	2.795
22	.866	72	2.835
23	.906	73	2.874
24	.945	74	2.913
25	.984	75	2.953
26	1.024	76	2.992
27	1.063	77	3.031
28	1.102	78	3.071
29	1.142	79	3.110
30	1.181	80	3.150
31	1.220	81	3.189
32	1.260	82	3.228
33	1.299	83	3.268
34	1.339	84	3.307
35	1.378	85	3.346
36	1.417	86	3.386
37	1.457	87	3.425
38	1.496	88	3.465
39	1.535	89	3.504
40	1.575	90	3.543
41	1.614	91	3.583
42	1.654	92	3.622
43	1.693	93	3.661
44	1.732	94	3.701
45	1.772	95	3.740
46	1.811	96	3.780
47	1.850	97	3.819
48	1.890	98	3.858
49	1.929	99	3.898
50	1.969	100	3.937

QUICK REFERENCE CHART: J30 1996_(Canada) / 1997_(U.S.A.)

ENGINE TUNE-UP DATA

Engine model	VG30DE		
Firing order	1-2-3-4-5-6		
Idle speed A/T (in "N" position) rpm	720±50		
Ignition timing (degree BTDC at idle speed)	15±2		
CO% at idle	Idle mixture screw is preset and sealed at factory.		
Drive belt deflection (Cold) mm (in)	Used belt deflection		Deflection of new belt
	Limit	Deflection after adjustment	
Alternator	10 (0.39)	8.5 - 7.5 (0.256 - 0.295)	5.5 - 6.5 (0.217 - 0.256)
Air conditioner compressor	14 (0.55)	8.5 - 9.5 (0.335 - 0.374)	7.5 - 8.5 (0.295 - 0.335)
Power steering oil pump	20 (0.79)	13 - 15 (0.51 - 0.59)	11 - 13 (0.43 - 0.51)
Applied pressed force N (kg, lb)	98 (10, 22)		
Radiator cap relief pressure kPa (kg/cm ² , psi)	78 - 98 (0.8 - 1.0, 11 - 14)		
Cooling system leakage testing pressure kPa (kg/cm ² , psi)	157 (1.6, 23)		
Compression pressure kPa (kg/cm ² , psi)/rpm			
Standard	1,285 (13.1, 186)/300		
Minimum	981 (10.0, 142)/300		
Spark plug			
Type (Standard)	PFR5Q-11, XFR5A-11		
Gap mm (in)	1.0 - 1.1 (0.039 - 0.043)		

REAR WHEEL ALIGNMENT (Unladen*)

Camber Degree minute (Decimal degree)	Minimum	-1°30' (-1.50°)
	Nominal	-1°00' (-1.00°)
	Maximum	-0°30' (-0.50°)
Total toe-in Distance (A - B) mm (in)	Minimum	0 (0)
	Nominal	2 (0.08)
	Maximum	4 (0.16)
Angle (left plus right) Degree minute (Decimal degree)	Minimum	0' (0.00°)
	Nominal	11' (0.18°)
	Maximum	22' (0.37°)

* Fuel, radiator coolant and engine oil full.
Spare tire, jack, hand tools and mats in designated positions.

BRAKE

		Unit: mm (in)
Front brake		
Pad wear limit	2.0 (0.079)	
Rotor repair limit	26.0 (1.024)	
Rear brake		
Pad wear limit	2.0 (0.079)	
Rotor repair limit	14.0 (0.551)	
Pedal free height	178 - 188 (7.01 - 7.40)	
Pedal depressed height*	95 (3.74) or more	

* Under force of 490 N (50 kg, 110 lb) with engine running

FRONT WHEEL ALIGNMENT (Unladen*)

Camber Degree minute (Decimal degree)	Minimum	-1°30' (-1.50°)
	Nominal	-0°45' (-0.75°)
	Maximum	0°00' (0.00°)
Caster Degree minute (Decimal degree)	Left and right difference	45' (0.75°) or less
	Minimum	5°50' (5.83°)
	Nominal	6°35' (6.58°)
Total toe-in Distance (A - B) mm (in)	Maximum	7°20' (7.33°)
	Left and right difference	45' (0.75°) or less
	Minimum	0 (0)
Angle (left plus right) Degree minute (Decimal degree)	Nominal	1 (0.04)
	Maximum	2 (0.08)
	Minimum	0' (0.00°)
Wheel turning angle (Full turn) Inside Degree minute (Decimal degree)	Nominal	5' (0.08°)
	Maximum	10' (0.17°)
	Minimum	35°20' (35.33°)
Outside Degree minute (Decimal degree)	Nominal	38°20' (38.33°)
	Maximum	39°20' (39.33°)
	Nominal	32°00' (32.00°)

* Fuel, radiator coolant and engine oil full.
Spare tire, jack, hand tools and mats in designated positions.

REFILL CAPACITIES

Unit	Liter	US measure
Fuel tank	72	19 gal
Coolant (With reservoir tank)	9.2	9-3/4 qt
Engine		
With oil filter	4.3	4-1/2 qt
Without oil filter	3.9	4-1/8 qt
Transmission	8.3	8-3/4 qt
Differential carrier	1.5	3-1/8 pt
Power steering system	1.3	1-3/8 qt
Air conditioning system		
Compressor oil	0.25	8.5 fl oz
Refrigerant	0.70 - 0.80 kg	1.54 - 1.76 lb

TEST VALUE AND TEST LIMIT (GST ONLY — NOT APPLICABLE TO CONSULT-II)

The following is the information specified in Mode 6 of SAE J1979.

The test value is a parameter used to determine whether a system/circuit diagnostic test is “OK” or “NG” while being monitored by the ECM during self-diagnosis. The test limit is a reference value which is specified as the maximum or minimum value and is compared with the test value being monitored.

Items for which these data (test value and test limit) are displayed are the same as SRT code items.

These data (test value and test limit) are specified by Test ID (TID) and Component ID (CID) and can be displayed on the GST screen.

SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Conversion
			TID	CID		
CATALYST	Three way catalyst function (Bank 1)	P0420	01H	01H	Max.	1/128
	Three way catalyst function (Bank 2)	P0430	03H	02H	Max.	1/128
EVAP SYSTEM	EVAP control system (Small leak)	P0440	05H	03H	Max.	1/128mm ²
	EVAP control system purge flow monitoring	P1447	06H	83H	Min.	20mV
HO2S	Heated oxygen sensor 1 (Bank 1)	P0130	09H	04H	Max.	10ms
		P0130	0AH	84H	Min.	10mV
		P0130	0BH	04H	Max.	10mV
		P0130	0CH	04H	Max.	10mV
		P0130	0DH	04H	Max.	1s
	Heated oxygen sensor 1 (Bank 2)	P0150	11H	05H	Max.	10ms
		P0150	12H	85H	Min.	10mV
		P0150	13H	05H	Max.	10mV
		P0150	14H	05H	Max.	10mV
		P0150	15H	05H	Max.	1s
	Heated oxygen sensor 2 (Bank 1)	P0136	19H	86H	Min.	10mV/500ms
		P0136	1AH	86H	Min.	10mV
		P0136	1BH	06H	Max.	10mV
		P0136	1CH	06H	Max.	10mV
	Heated oxygen sensor 2 (Bank 2)	P0156	21H	87H	Min.	10mV/500ms
		P0156	22H	87H	Min.	10mV
		P0156	23H	07H	Max.	10mV
		P0156	24H	07H	Max.	10mV
HO2S HTR	Heated oxygen sensor 1 heater (Bank 1)	P0135	29H	08H	Max.	20mV
		P0135	2AH	88H	Min.	20mV
	Heated oxygen sensor 1 heater (Bank 2)	P0155	2BH	09H	Max.	20mV
		P0155	2CH	89H	Min.	20mV
	Heated oxygen sensor 2 heater (Bank 1)	P0141	2DH	0AH	Max.	20mV
		P0141	2EH	8AH	Min.	20mV
EGR SYSTEM	EGR function	P0161	2FH	0BH	Max.	20mV
		P0161	30H	8BH	Min.	20mV
		P0400	31H	8CH	Min.	1°C
		P0400	32H	8CH	Min.	1°C
		P0400	33H	8CH	Min.	1°C
		P0400	34H	8CH	Min.	1°C
	EGRC-BPT valve function	P0400	35H	0CH	Max.	1°C
		P0402	36H	0CH	Max.	1count
		P0402	37H	8CH	Min.	1count