



INFINITI®

J30

MODEL Y32 SERIES

FOREWORD

This supplement contains information concerning necessary service procedures and relevant data for the model 1997 (For U.S.A.) J30 face-lift, 1997 (For Canada) J30.

All information, illustrations and specifications contained in this supplement are based on the latest product information available at the time of publication. If your INFINITI model differs from the specifications contained in this supplement, consult your INFINITI distributor for information.

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



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HOW TO USE THIS MANUAL

- ▶ This Service Manual Supplement contains the new service procedures, service data and specifications for the 1997 (For U.S.A.) INFINITI J30, model Y32 series face-lift, 1997 (For Canada) INFINITI J30, model Y32 series.
 - ▶ This Service Manual Supplement does not contain the service procedures, etc. which are the same as those for former 1997 (For U.S.A.) models, 1996 (For Canada) models. Please use this manual in conjunction with the 1997 (For U.S.A.) INFINITI J30, model Y32 series, 1996 (For Canada) INFINITI J30, model Y32 series Service Manual (Pub. No. SM7E-0Y32U0).
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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 Supplement 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.



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NISSAN MOTOR CO., LTD.

Overseas Service Department

Tokyo, Japan



PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

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Your comments are important to INFINITI and will help us to improve our Service Manuals. 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.*

Are the trouble diagnosis procedures logical and easy to use? (circle your answer) YES NO

If no, what page number(s)? _____ *Note: Please include a copy of each page, marked with your comments.*

Please describe the issue or problem in detail: _____

Is the organization of the manual clear and easy to follow? (circle your answer) YES NO

Please comment: _____

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

1997

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) | 10±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) | 6.5 - 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, 188)/300 | | |
| Minimum | 981 (10.0, 142)/300 | | |
| Spark plug | Type (Standard) | | |
| | PFR5G-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°) |
| | Left and right difference | 45' (0.75°) or less |
| Caster Degree minute (Decimal degree) | Minimum | 5°50' (5.83°) |
| | Nominal | 6°35' (6.58°) |
| | Maximum | 7°20' (7.33°) |
| | Left and right difference | 45' (0.75°) or less |
| Total toe-in Distance (A - B) mm (in) | Minimum | 0 (0) |
| | Nominal | 1 (0.04) |
| | Maximum | 2 (0.08) |
| | Angle (left plus right) Degree minute (Decimal degree) | Minimum |
| | Nominal | 5.5' (0.09°) |
| | Maximum | 11' (0.18°) |
| Wheel turning angle (Full turn) Inside Degree minute (Decimal degree) | Minimum | 35°20' (35.33°) |
| | Nominal | 38°20' (38.33°) |
| | Maximum | 39°20' (39.33°) |
| | Outside Degree minute (Decimal degree) | Nominal |

* 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 |
| | Without oil filter | 3.9 |
| Transmission | A/T | 8.3 |
| Differential carrier | | 1.5 |
| Power steering system | | 1.3 |
| Air conditioning system | Compressor oil | 0.25 |
| | Refrigerant | 0.70 - 0.80 kg |
| | | 1.54 - 1.76 lb |