| A GENERAL INFORMATION B ENGINE | GI General Information | |
|-----------------------------------|--|---|
| | | |
| DENGINE | EM Engine Mechanical | |
| | LU Engine Lubrication System | |
| | CO Engine Cooling System | B |
| | | |
| | | |
| | | |
| | | |
| C TRANSMISSION/ TRANSAXLE | AT Automatic Transmission | |
| D DRIVELINE/AXLE | TF Transfer | |
| | | |
| | | |
| | | ΙE |
| | | |
| | | |
| E SUSPENSION | - | |
| | | |
| | | G |
| F BRAKES | | |
| | | |
| | | H |
| | | |
| H RESTRAINTS | | |
| | (SRS) | |
| I BODY | BL Body, Lock & Security System | |
| | | |
| | | |
| | | |
| | | - |
| | 05 0(| |
| | | |
| | | |
| K LEEOTKIOAL | | |
| | | |
| | | |
| | | |
| | | |
| | - | |
| | phone System | |
| | ACS Auto Cruise Control System | |
| | | |
| L MAINTENANCE | MA Maintenance | |
| | IDX Alphabetical Index | |
| | D DRIVELINE/AXLE E SUSPENSION F BRAKES G STEERING H RESTRAINTS I BODY J AIR CONDITIONER K ELECTRICAL | EC Engine Control System FL Fuel System EX Exhaust System ACC Accelerator Control System ACC Accelerator Control System C TRANSMISSION/ TRANSAXLE AT D DRIVELINE/AXLE TF Transfer PR Propeller Shaft FFD FFD Front Final Drive FAX FRD Rear Final Drive FAX FAX Front Axle Rax RAX Rear Axle Rear Suspension WT Road Wheels & Tires Transfer F BRAKES BR Brake System BRC Brake System BRC Broke System G STEERING PS Power Steering System H RESTRAINTS SB Seat Belts SRS Supplemental Restraint System (SRS) I I BODY BL Body, Lock & Security System GW Glasses, Window System & Mirrors RF Roof EI Exterior & Interior IP Instrument Panel SE Seat |

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FOREWORD

This manual contains maintenance and repair procedure for the 2004 INFINITI FX35/FX45.

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 NISSAN must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



NISSAN MOTOR CO., LTD.

| PLEASE HELP MAKE T | HIS SERVICE MANUAL BETTER! |
|--|--|
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| PUBLICATION NO. (Refer to Quick Reference Index): | |
| Please describe any Service Manual issues or problems | |
| Page number(s) Note: Please inclu | |
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| | |
| Are the trouble diagnosis procedures logical and eas | y to use? (circle your answer) YES NO |
| If no, what page number(s)?Note: Please inc | lude 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 fo | llow? (circle your answer) YES NO |
| Please comment: | |
| | |
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| | |
| What information should be included in INFINITI Serv | vice Manuals to better support you in servicing or |
| repairing customer vehicles? | |
| | |
| | |
| | |
| | |
| DATE: YOUR NAME: | |
| DEALER: FOOR NAME DEALER: DEALER NO.: | |
| | |
| CITY: STATE/PROV./COUNTF | |

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

| | for automoti | , | |
|--------|--------------|--------|----------------|
| 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 |
| .220 | 5.84 | .740 | 18.80 |
| | | | |
| .240 | 6.10 | .750 | 19.05 19.30 |
| .250 | 6.35 | .760 | |
| .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 | 24.13 |
| .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 |
| .520 | 13.46 | 5.000 | 127.00 |
| | 13.40 | | 152.40 |
| .540 | | 6.000 | |
| .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 | | |

| | for automoti | , | | |
|----|--------------|-----------------|--------|--|
| 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 | |
| 17 | .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 | | 80 | | |
| | 1.181 | | 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 | |
| 42 | 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 FX35/FX45

QUICK REFERENCE CHART FX35/FX45 ENGINE TUNE-UP DATA (VQ35DE)

| Engine model | | | VQ35DE | | | |
|---|----------------|------------------------------------|--------------------------------------|--------------------|--|--|
| Firing order | | | 1-2-3-4-5-6 | | | |
| Idle speed rpm A/T (In "P" or "N" position) | | | 650±50 | | | |
| Ignition timing (BTDC at idle speed) A/T (In "P" or "N" position) | | 15°± 5° | | | | |
| CO% at idle | | | 0.7 - 9.9 % and engine runs smoothly | | | |
| | Deflection adj | ustment | Unit: mm (in) | Tension adjustment | | Unit: N (kg, lb) |
| Drive Belt | | Used belt | New belt | Us | ed belt | New belt |
| | Limit | After adjustment | New Deit | Limit | After adjustment | New Delt |
| Alternator and power steering oil pump | 7 (0.28) | 4 - 5 (0.16 - 0.20) | 3.5 - 4.5 (0.138 - 0.177) | 294 (30, 66) | 730 - 818 (74.5 - 83.5, 164 - 184) | 838 - 926 (85.5 - 94.5, 188 - 208) |
| Air conditioner com- pressor belt | 12 (0.47) | 9 - 10 (0.35 - 0.39) | 8 - 9 (0.31 - 0.35) | 196 (20, 44) | 348 - 436 (35.5 - 44.5, 78 - 98) | 470 - 559 (48 - 57, 106 - 126) |
| Applied pushing force 98N (10kg, 22lb) | | | | — | | |
| Radiater cap relief press | ure | kPa (kg/cm ² , psi) | | | | |
| | Standard | | | 78 - 98 (0.8 | 3 - 1.0, 11 - 14) | |
| | Limit | | 59 (0.6, 9) | | | |
| Cooling system leakage testing pres- sure kPa (kg/cm ² , psi) | | 157(1.6, 23) | | | | |
| Compression pressure kPa (kg/cm ² , psi)/rp | | kPa (kg/cm ² , psi)/rpm | | | | |
| Standard | | | 1,275 (13.0, 185) /300 | | | |
| Minimum | | | 981 (10.0, 142)/300 | | | |
| Spark plug | Standard type | ! | PLFR5A - 11 | | | |
| | Hot type | | | PLFR4A - 11 | | |
| | Cold type | | | PLFI | R6A - 11 | |

ELS0003W

PFP:00000

| Engine model | | | VK45 | 5DE | |
|---|----------------------------|--|---|--|--|
| Firing order | | 1-8-7-3-6-5-4-2 | | | |
| Idle speed A/T (In "P" or "N" position) rpm | | 650±50 | | | |
| Ignition timing (BTDC at idle speed) | | 12°±5° | | | |
| CO% at idle | | | 0.7 - 9.9 % and engine runs smoothly | | |
| Tensions of drive be | elts | | Auto adjustment by auto tensioner | | |
| Radiater cap relief | pressure | kPa (kg/cm ² , psi) | | | |
| St | andard | | 78 - 98 (0.8 - 1.0 , 11 - 14) | | |
| Lir | mit | | 59 (0.6 | 6, 9) | |
| Cooling system leal | kage testing | pressure | | | |
| kP | Pa (kg/cm ² , j | osi) | 157(1.6 | 5, 23) | |
| Compression press | sure | kPa (kg/cm ² , psi)/rpm | | | |
| Sta | andard | | 1,320 (13.5, | 191) /300 | |
| Mi | inimum | | 1,130 (11.5, | , 164)/300 | |
| Spark plug St | andard type | | PLFR5/ | A - 11 | |
| Но | ot type | | PLFR4/ | A - 11 | |
| Cold type | | | PLFR6A - 11 | | |
| | FFI ΔΙΙ | GNMENT (Unlade | n*) | ELS000 | |
| | | | - / | | |
| Camber | | - | - | - 1° 29′ (- 1.48°) | |
| | | Degree minute (Decimal degr | - | | |
| | | - | ee) Minimum | - 1° 29′ (- 1.48°) | |
| | | - | ee) Minimum Nominal | - 1° 29′ (- 1.48°) - 0° 44′ (- 0.73°) | |
| | | - | ee) Minimum Nominal Maximum Left and right difference | - 1° 29′ (- 1.48°) - 0° 44′ (- 0.73°) 0° 01′ (0.02°) | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference | $-1^{\circ} 29' (-1.48^{\circ}) -0^{\circ} 44' (-0.73^{\circ}) 0^{\circ} 01' (0.02^{\circ}) 45' (0.75^{\circ}) \text{ or less}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \end{array}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \end{array}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \end{array}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \end{array}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 12^{\circ} 20' \left(12.33^{\circ}\right) \end{array}$ | |
| Camber | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 12^{\circ} 20' \left(12.33^{\circ}\right) \\ 13^{\circ} 05' \left(13.08^{\circ}\right) \end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 12^{\circ} 20' \left(12.33^{\circ}\right) \\ 13^{\circ} 05' \left(13.08^{\circ}\right) \\ 13 50' \left(13.83^{\circ}\right) \end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Maximum | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Left and right difference ee) Minimum Nominal Maximum Maximum Nominal Maximum Nominal Nominal | $\begin{array}{c} -1^{\circ} 29' \left(-1.48^{\circ}\right) \\ -0^{\circ} 44' \left(-0.73^{\circ}\right) \\ 0^{\circ} 01' \left(0.02^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 3^{\circ} 02' \left(3.03^{\circ}\right) \\ 3^{\circ} 47' \left(3.78^{\circ}\right) \\ 4^{\circ} 32' \left(4.53^{\circ}\right) \\ 45' \left(0.75^{\circ}\right) \text{ or less} \\ 12^{\circ} 20' \left(12.33^{\circ}\right) \\ 13^{\circ} 05' \left(13.08^{\circ}\right) \\ 13 50' \left(13.83^{\circ}\right) \\ 0.6 \text{ mm} \left(0.024 \text{ in}\right) \\ 1.6 \text{ mm} \left(0.063 \text{ in}\right) \end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) Angle (left plus right) | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Nominal Maximum | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Nominal Maximum Nominal Maximum Minimum | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \\ 2.6 \text{ mm} (0.102 \text{ in}) \\ -\end{array}$ | |
| Camber Caster Kingpin inclination | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) Angle (left plus right) | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Nominal Nominal | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \\ 2.6 \text{ mm} (0.102 \text{ in}) \\ -\end{array}$ | |
| Camber Caster Kingpin inclination Total toe-in | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) Angle (left plus right) Degree minute (Degree) | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Minimum Minimum Minimum Minimum Minimum | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \\ 2.6 \text{ mm} (0.102 \text{ in}) \\ - \\ 6' (0.1^{\circ}) \\ - \end{array}$ | |
| Camber Caster Kingpin inclination Total toe-in | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) Angle (left plus right) Degree minute (Degree) Inside | ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Left and right difference ee) Minimum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Minimum Minimum Minimum Minimum Minimum | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \\ 2.6 \text{ mm} (0.102 \text{ in}) \\ - \\ 6' (0.1^{\circ}) \\ - \\ 32^{\circ} 00' (32.0^{\circ}) \end{array}$ | |
| Camber Caster Kingpin inclination Total toe-in | | Degree minute (Decimal degr Degree minute (Decimal degr Degree minute (Decimal degr Distance (A – B) Angle (left plus right) Degree minute (Degree) Inside | ee) Minimum Nominal Maximum Left and right difference Minimum ee) Minimum Nominal Maximum Left and right difference Minimum Nominal Maximum Left and right difference Minimum Nominal Maximum Nominal Maximum Maximum Minimum Nominal Maximum Maximum Minimum Nominal Maximum Maximum Minimum Nominal Maximum Minimum Nominal Moximum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Nominal Maximum Nominal | $\begin{array}{c} -1^{\circ} 29' (-1.48^{\circ}) \\ -0^{\circ} 44' (-0.73^{\circ}) \\ 0^{\circ} 01' (0.02^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 3^{\circ} 02' (3.03^{\circ}) \\ 3^{\circ} 47' (3.78^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 4^{\circ} 32' (4.53^{\circ}) \\ 45' (0.75^{\circ}) \text{ or less} \\ 12^{\circ} 20' (12.33^{\circ}) \\ 13^{\circ} 05' (13.08^{\circ}) \\ 13 50' (13.83^{\circ}) \\ 0.6 \text{ mm} (0.024 \text{ in}) \\ 1.6 \text{ mm} (0.063 \text{ in}) \\ 2.6 \text{ mm} (0.102 \text{ in}) \\ - \\ 6' (0.1^{\circ}) \\ - \\ 32^{\circ} 00' (32.0^{\circ}) \\ 35^{\circ} 00' (35.0^{\circ}) \end{array}$ | |

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

QUICK REFERENCE CHART FX35/FX45

REAR WHEEL ALIGNMENT (Unladen*)

| | | | – 1° 18′ (– 1.30°) |
|---------------|--|---------|----------------------------------|
| | camber Degree minute (Decimal degree) | | $-0^{\circ} 48' (-0.80^{\circ})$ |
| | | Maximum | - 0° 18′ (- 0.30°) |
| | Distance (A – B) | Minimum | 2.4 mm (0.094 in) |
| | | Nominal | 4.7 mm (0.185 in) |
| Total toe-in | | Maximum | 7.0 mm (0.276 in) |
| Iotal toe-III | Angle (left plus right) | Minimum | 0° 05′ (0.08°) |
| | | Nominal | 0° 10′ (0.17°) |
| | Degree minute (Degree) | Maximum | 0° 15′ (0.25°) |

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

BRAKE

| Front brake | Pad wear limit | 2.0 mm (0.079 in) |
|---------------|--------------------|---------------------------------------|
| | Rotor repair limit | 26.0 mm (1.024 in) |
| Rear brake | Pad wear limit | 2.0 mm (0.079 in) |
| | Rotor repair limit | 14.0 mm (0.551 in) |
| Pedal free he | eight | 161.5 - 171.5 mm (6.358 - 6.752 in) |
| Pedal depres | ssed height* | More than 80 mm (3.15 in) |

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

REFILL CAPACITIES

UNIT Liter US measure Fuel tank 90 23 - 3/4 gal VQ35DE 8.6 9 - 1/8 qt Coolant (With reservoir tank) VK45DE 10.0 10 - 5/8 qt Drain and refill With oil filter change 4.7 5 qt Engine(VQ35DE) Without oil filter change 4.4 4 - 5/8 qt Dry engine (Overhaul) 5.4 5 - 3/4 qt Drain and refill With oil filter change 6.6 7qt Engine(VK45DE) Without oil filter change 6.0 6 - 3/8 qt Dry engine (Overhaul) 7.7 8 - 1/8 qt Transmission A/T 10.3 10 - 7/8 qt Transfer 1.25 2 - 5/8 pt Front 0.65 1 - 3/8 pt Differential carrier Rear 1.4 3 pt 1.0 1 - 1/8 qt Power steering system Compressor oil 0.18 6.0 fl oz Air conditioning system 1.21 lb Refrigerant 0.55 kg

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