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.

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SERVICE MANUAL: Model:	Voar
PUBLICATION NO. (Refer to Quick Reference Index):	
Please describe any Service Manual issues or problems	
Page number(s) Note: Please inclu	
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:	
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	<b>51</b> 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 <sup>2</sup> , 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 <sup>2</sup> , psi)		157(1.6, 23)				
Compression pressure kPa (kg/cm <sup>2</sup> , psi)/rp		kPa (kg/cm <sup>2</sup> , 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 <sup>2</sup> , 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 <sup>2</sup> , j	osi)	157(1.6	5, 23)	
Compression press	sure	kPa (kg/cm <sup>2</sup> , 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	<b>GNMENT</b> (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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