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# INFINITI® 135 model a33 series

QUICK REFERENCE INDEX	
GENERAL INFORMATION	GI
	MA
ENGINE MECHANICAL	EM
ENGINE LUBRICATION & COOLING SYSTEMS	LC
ENGINE CONTROL SYSTEM	EC
ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS	FE
AUTOMATIC TRANSAXLE	AT
FRONT & REAR AXLE	AX
FRONT & REAR SUSPENSION	SU
BRAKE SYSTEM ————	BR
STEERING SYSTEM	ST
RESTRAINT SYSTEM	RS
BODY & TRIM	BT
HEATER & AIR CONDITIONER	НА
STARTING & CHARGING SYSTEM	SC
ELECTRICAL SYSTEM	EL
ALPHABETICAL INDEX	IDX



INFINITI®

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## FOREWORD

This manual contains maintenance and repair procedures for the 2002 INFINITI I35.

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.

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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
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DATE: YOUR NAME:	DOSITION
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	
	6.10		19.05	
.240		.750	19.05	
.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	
.530	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			

	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	2.120		
6	.236	56	2.105		
7	.230	57	2.203		
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		
10	.748	69	2.717		
20	.748	70	2.756		
20	.827	70	2.795		
21		71			
	.866		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		
40		90			
	1.614		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		

#### 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.

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 tes	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Conversion
	-		TID	CID		
CATALYST Three way catalyst function (Bank 1) Three way catalyst function (Bank 2)	P0420	01H	01H	Max.	1/128	
	P0420	02H	81H	Min.	1	
	Three constants for the street (Decily 0)	P0430	03H	02H	Max.	1/128
	I nree way catalyst function (Bank 2)	P0430	04H	82H	Min.	1
EVAP SYSTEM	EVAP control system (Small leak)	P0442	05H	03H	Max.	1/128mm <sup>2</sup>
		P1442	05H	03H	Max.	1/128mm <sup>2</sup>
	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	20mV
		P0456	07H	03H	Max.	1/128mm <sup>2</sup>
	EVAP control system (Very small leak)	P1456	07H	03H	Max.	1/128mm <sup>2</sup>
		P0133	09H	04H	Max.	16ms
		P1143	0AH	84H	Min.	10mV
	Heated oxygen sensor 1 (Bank 1)	P1144	0BH	04H	Max.	10mV
		P0132	0CH	04H	Max.	10mV
		P0134	0DH	04H	Max.	1s
		P0153	11H	05H	Max.	16ms
		P1163	12H	85H	Min.	10mV
	Heated oxygen sensor 1 (Bank 2)	P1164	13H	05H	Max.	10mV
HO2S	1000	P0152	14H	05H	Max.	10mV
HU23		P0154	15H	05H	Max.	1s
	Hosted avvicen concer 2 (Paply 1)	P0139	19H	86H	Min.	10mV/500ms
		P1147	1AH	86H	Min.	10mV
Heated oxygen sensor 2 (Bank 1)	Healed oxygen sensor 2 (bank 1)	P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
		P0159	21H	87H	Min.	10mV/500ms
Heated oxygen sensor 2 (Bank 2)	Heated exugen concer 2 (Pank 2)	P1167	22H	87H	Min.	10mV
	P1166	23H	07H	Max.	10mV	
		P0158	24H	07H	Max.	10mV
	Heated evygen concer 1 heater (Peak 1)	P0032	29H	08H	Max.	20mV
	Heated oxygen sensor 1 heater (Bank 1)	P0031	2AH	88H	Min.	20mV
	Heated oxygen sensor 1 heater (Bank 2)	P0052	2BH	09H	Max.	20mV
	nealed oxygen sensor i nealer (Bank 2)	P0051	2CH	89H	Min.	20mV
HO2S HTR	Heated avugan appear 2 heater (Peak 4)	P0038	2DH	0AH	Max.	20mV
Heated oxygen senso	Heated oxygen sensor 2 heater (Bank 1)	P0037	2EH	8AH	Min.	20mV
	Hastad avugan appear 2 hastar (Paal: 2)	P0058	2FH	0BH	Max.	20mV
Heated oxygen sensor 2 he	Heated oxygen sensor 2 heater (Bank 2)	P0057	30H	8BH	Min.	20mV