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NISSAN FRONTIER

MODEL D22 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 2001 NISSAN FRONTIER.

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 NORTH AMERICA, INC.
Technical Service Information Department
Gardena, California



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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

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NOTES

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.

: Applicable *: Not applicable

SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Application	Unit
			TID	CID			
CATALYST	Three way catalyst function	P0420	01H	01H	Max.	X	-
		P0420	02H	81H	Min.	X	-
EVAP SYSTEM	EVAP control system (Small leak)	P0440	05H	03H	Max.	X	-
		P1440*2	05H	03H	Max.	X	-
	EVAP control system purge flow monitoring	P1447	06H	83H	Min.	X	mV
H02S	Heated oxygen sensor 1	P1441*1	07H	03H	Max.	X	-
		P0133	09H	04H	Max.	X	ms
		P0131	0AH	84H	Min.	X	mV
		P0130	0BH	04H	Max.	X	mV
		P0132	0CH	04H	Max.	X	mV
	Heated oxygen sensor 2	P0134	0DH	04H	Max.	X	s
		P0139	19H	86H	Min.	X	mV/500ms
		P0137	1AH	86H	Min.	X	mV
		P0140	1BH	06H	Max.	X	mV
		P0138	1CH	06H	Max.	X	mV
H02S HTR	Heated oxygen sensor 1 heater	P0135	29H	08H	Max.	X	mV
		P0135	2AH	88H	Min.	X	mV
	Heated oxygen sensor 2 heater	P0141	2DH	0AH	Max.	X	mV
		P0141	2EH	8AH	Min.	X	mV
EGR SYSTEM	EGR function	P0400	31H	8CH	Min.	X	°C
		P0400	32H	8CH	Min.	X	°C
		P0400	33H	8CH	Min.	X	°C
		P0400	34H	8CH	Min.	X	°C
		P1402	35H	0CH	Max.	X	°C
	EGRC-BPT valve function	P0402*2	36H	0CH	Max.	X	-
		P0402*2	37H	8CH	Min.	X	-

*1 : Except models D22 KA24DE engine, WD22 KA24DE engine 2000MY.

*2 : Except models L30 KA24DE engine 2000MY.

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.

: Applicable *: Not applicable

SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Application	Unit
			TID	CID			
CATALYST	Three way catalyst function (Bank 1)	P0420	01H	01H	Max.	X	-
		P0420	02H	81H	Min.	X	-
	Three way catalyst function (Bank 2)	P0430	03H	02H	Max.	X	-
		P0430	04H	82H	Min.	X	-
EVAP SYSTEM	EVAP control system (Small leak)	P0440	05H	03H	Max.	X	-
		P1440*1	05H	03H	Max.	X	-
	EVAP control system purge flow monitoring EVAP control system (Very small leak)	P1447	06H	83H	Min.	X	mV
H02S	Heated oxygen sensor 1 (Bank 1)	P0133	09H	04H	Max.	X	ms
		P0131	0AH	84H	Min.	X	mV
		P0130	0BH	04H	Max.	X	mV
		P0132	0CH	04H	Max.	X	mV
		P0134	0DH	04H	Max.	X	s
	Heated oxygen sensor 1 (Bank 2)	P0153	11H	05H	Max.	X	ms
		P0151	12H	85H	Min.	X	mV
		P0150	13H	05H	Max.	X	mV
		P0152	14H	05H	Max.	X	mV
		P0154	15H	05H	Max.	X	s
	Heated oxygen sensor 2 (Bank 1)	P0139	19H	86H	Min.	X	mV/500ms
		P0137	1AH	86H	Min.	X	mV
		P0140	1BH	06H	Max.	X	mV
		P0138	1CH	06H	Max.	X	mV
	Heated oxygen sensor 2 (Bank 2)	P0159	21H	87H	Min.	X	mV/500ms
		P0157	22H	87H	Min.	X	mV
		P0160	23H	07H	Max.	X	mV
		P0158	24H	07H	Max.	X	mV
		P0135	29H	08H	Max.	X	mV
	H02S HTR	Heated oxygen sensor 1 heater (Bank 1)	P0135	2AH	88H	Min.	X
P0155			2BH	09H	Max.	X	mV
Heated oxygen sensor 2 heater (Bank 2)		P0155	2CH	89H	Min.	X	mV
		P0141	2DH	0AH	Max.	X	mV
Heated oxygen sensor 2 heater (Bank 1)		P0141	2EH	8AH	Min.	X	mV
		P0161	2FH	0BH	Max.	X	mV
Heated oxygen sensor 2 heater (Bank 2)		P0161	30H	8BH	Min.	X	mV

*1 : Except models D22 VG33E engine, WD22 VG33E engine, R50 VQ35DE engine, JR50 VQ35DE engine 2001

*2 : Except models A33 VQ30DE engine, CA33 VQ30DE engine 2001MY.