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NISSAN FRONTIER MODEL D22 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 2002 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 PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to NISSAN 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 print this form and type or write your comments below. Mail or fax to:

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SERVICE MANUA	L: Model:	Year:					
PUBLICATION NO. (Please photocopy back cover):							
VEHICLE INFORM	MATION VIN:	Production Date:					
Please describe ar	ny issues or problems in detail:						
Page number(s)	Note: Please inc	clude a copy of each page, marked with your comments.					
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NOTES

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.

SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Conversion
CATALYST	Three way establish function	P0420	01H	01H	Max.	1/128
	Three way catalyst function	P0420	02H	81H	Min.	1
EVAP SYSTEM	EVAP control system (Small leak)	P0442	05H	03H	Max.	1/128mm ²
	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	20mV
EVAPSISIEM	EVAP control system (Very small leak)	P0456	07H	03H	Max.	1/128mm ²
	EVAF Control system (very small leak)	P1456	07H	03H	Max.	1/128mm ²
		P0133	09H	04H	Max.	16ms
		P1143	0AH	84H	Min.	10mV
	Heated oxygen sensor 1	P1144	0BH	04H	Max.	10mV
		P0132	0CH	04H	Max.	10mV
HO2S		P0134	0DH	04H	Max.	1s
		P0139	19H	86H	Min.	10mV/500ms
	Heated oxygen sensor 2	P1147	1AH	86H	Min.	10mV
	Heated oxygen sensor 2	P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
	Heated evugen concer 1 heater	P0032	29H	08H	Max.	20mV
HO2S HTR	Heated oxygen sensor 1 heater	P0031	2AH	88H	Min.	20mV
HU25 HTK	Heated oxygen sensor 2 heater	P0038	2DH	0AH	Max.	20mV
	Heated Oxygen Sensor 2 heater	P0037	2EH	8AH	Min.	20mV
		P0400	31H	8CH	Min.	1°C
		P0400	32H	8CH	Min.	1°C
	EGR function	P0400	33H	8CH	Min.	1°C
EGR SYSTEM		P0400	34H	8CH	Min.	1°C
		P1402	35H	0CH	Max.	1°C
	EGRC-BPT valve function	P0402	36H	0CH	Max.	1count
	EGNO-BET VAIVE TUTICITOR	P0402	37H	8CH	Min.	1count

TEST VALUE AND TEST LIMIT (GST ONLY — NOT APPLICABLE TO CONSULT-II)

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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 test item	DTC	Test value (GST display)		Test limit	Conversion
			TID	CID		
CATALYST	Three way catalyst function (Bank 1)	P0420	01H	01H	Max.	1/128
		P0420	02H	81H	Min.	1
	There was a stable to fine stime (Donale O)	P0430	03H	02H	Max.	1/128
	Three way catalyst function (Bank 2)	P0430	04H	82H	Min.	1
	EVAD control overtons (Crostl look)	P0442	05H	03H	Max.	1/128mm ²
	EVAP control system (Small leak)	P1442	05H	03H	Max.	1/128mm ²
EVAP SYSTEM	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	20mV
	E)/AD ===4==1 ==============================	P0456	07H	03H	Max.	1/128mm ²
	EVAP control system (Very small leak)	P1456	07H	03H	Max.	1/128mm ²
		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		P0152	14H	05H	Max.	10mV
HU25		P0154	15H	05H	Max.	1s
		P0139	19H	86H	Min.	10mV/500ms
	Heated oxygen sensor 2 (Bank 1)	P1147	1AH	86H	Min.	10mV
		P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
		P0159	21H	87H	Min.	10mV/500ms
	Heated evergen concer 2 (Penk 2)	P1167	22H	87H	Min.	10mV
	Heated oxygen sensor 2 (Bank 2)	P1166	23H	07H	Max.	10mV
		P0158	24H	07H	Max.	10mV
LIGOSUTE	Hostod avugan cancer 1 hostor (Pont 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
		P0051	2CH	89H	Min.	20mV
HO2S HTR	Heated oxygen sensor 2 heater (Bank 1)	P0038	2DH	0AH	Max.	20mV
		P0037	2EH	8AH	Min.	20mV
	Heated oxygen sensor 2 heater (Bank 2)	P0058	2FH	0BH	Max.	20mV
		P0057	30H	8BH	Min.	20mV