Edition: September 2002 Revision: September 2002 Publication No. SM2E-1W22U1



GENERAL INFORMATION	GI
	MA
ENGINE MECHANICAL	EM
ENGINE LUBRICATION & COOLING SYSTEMS	LC
ENGINE CONTROL SYSTEM	EC
ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS	FE
CLUTCH	CL
MANUAL TRANSMISSION	MT
AUTOMATIC TRANSMISSION	AT
TRANSFER	TF
PROPELLER SHAFT & DIFFERENTIAL CARRIER	PD
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

© 2002 NISSAN NORTH AMERICA, INC. All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc., Gardena, California.

FOREWORD

This manual contains maintenance and repair procedures for the 2002 Nissan XTERRA.

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

NISSAN PLEA	SE HELP MAKE THIS SERV	/ICE MANUAL BETTER!
Your comments are	e important to NISSAN and will hele	p us to improve our Service Manuals.
		may have regarding our Service Manuals.
	rm and type or write your comment	, , ,
	Nissan North America, Inc. Technical Service Informatio 39001 Sunrise Drive, P.O. B Farmington Hills, MI USA 48 FAX: (248) 488-3910	on Box 9200
SERVICE MANUAL:	Model: Ye	/ear:
	(Please photocopy back cover):	
		Production Date:
	issues or problems in detail:	
		e a copy of each page, marked with your comments
If no, what page num		to use? (circle your answer) YES NO Ide a copy of each page, marked with your comments
-	of the manual clear and easy to foll	
What information s repairing customer		ce Manuals to better support you in servicing c
DATE:	YOUR NAME:	POSITION:
		ADDRESS:
		ADDRESS: Y: ZIP/POSTAL CODE:
on n		1 ZIF/FOGTAL CODE

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
	Self-diagnostic test item	DTC	Test value		Te s t limit	Application	Unit
SRT item			(GST display)				
			TID	CID			
CATALYST	Three way catalyst function	P0420	01H	01H	Max.	Х	-
		P0420	02H	81H	Min.	Х	-
	EVAP control system (Small leak)	P0442	05H	03H	Max.	Х	-
EVAP SYSTEM	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	Х	mV
EVAF STSTEM		P0456	07H	03H	Max.	Х	-
	EVAP control system (Very small leak)	P1456	07H	03H	Max.	Х	-
		P0133	09H	04H	Max.	Х	ms
		P1143	OAH	84H	Min.	Х	mV
	Heated oxygen sensor 1	P1144	OBH	04H	Max.	Х	mV
		P0132	OCH	04H	Max.	Х	mV
H02S		P0134	ODH	04H	Max.	Х	S
	Heated oxygen sensor 2	P0139	19H	86H	Min.	Х	mV/500ms
		P1147	1AH	86H	Min.	Х	mV
		P1146	1BH	06H	Max.	Х	mV
		P0138	1CH	06H	Max.	Х	mV
	Heated oxygen sensor 1 heater	P0032	29H	08H	Max.	Х	mV
H02S HTR		P0031	2AH	88H	Min.	Х	mV
HUZ3 HIK	Heated oxygen sensor 2 heater	P0038	2DH	OAH	Max.	Х	mV
		P0037	2EH	8AH	Min.	Х	mV
	EGR function	P0400	31H	8CH	Min.	Х	°C
		P0400	32H	8CH	Min.	Х	°C
		P0400	33H	8CH	Min.	Х	°C
EGR SYSTEM*1		P0400	34H	8CH	Min.	Х	°C
		P1402	35H	0CH	Max.	Х	°C
	EGRC-BPT valve function	P0402	36H	0CH	Max.	Х	-
		P0402	37H	8CH	Min.	Х	-

*1: Except models B15 QR25DE 2002MY and B15 QR25DE engine 2003MY.

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		Test value			Application	
		DTC (GST display)		display)	Te s t limit		Unit
			TID	CID			
CATALYST	Three way catalyst function (Bank 1)	P0420	01H	01H	Max.	Х	-
		P0420	02H	81H	Min.	Х	-
		P0430	03H	02H	Max.	Х	-
	Three way catalyst function (Bank 2)	P0430	04H	82H	Min.	Х	-
EVAP SYSTEM		P0442	05H	03H	Max.	Х	-
	EVAP control system (Small leak)	P1442	05H	03H	Max.	Х	-
	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	Х	mV
	EVAP control system (Very small leak)	P0456	07H	03H	Max.	Х	-
	EVAP CONTROL System (Very Small Teak)	P1456	07H	03H	Max.	Х	-
		P0133	09H	04H	Max.	Х	ms
		P1143	0AH	84H	Min.	Х	mV
	Heated oxygen sensor 1(Bank 1)	P1144	OBH	04H	Max.	Х	mV
		P0132	OCH	04H	Max.	Х	mV
		P0134	ODH	04H	Max.	Х	S
	Heated oxygen sensor 1(Bank 2)	P0153	11H	05H	Max.	Х	ms
		P1163	12H	85H	Min.	Х	mV
		P1164	13H	05H	Max.	Х	mV
H02S		P0152	14H	05H	Max.	Х	mV
11023		P0154	15H	05H	Max.	Х	S
ł	Heated oxygen sensor 2(Bank 1)	P0139	19H	86H	Min.	Х	mV/500ms
		P1147	1AH	86H	Min.	Х	mV
		P1146	1BH	06H	Max.	Х	mV
		P0138	1CH	06H	Max.	Х	mV
	Heated oxygen sensor 2(Bank 2)	P0159	21H	87H	Min.	Х	mV/500ms
		P1167	22H	87H	Min.	Х	mV
		P1166	23H	07H	Max.	Х	mV
		P0158	24H	07H	Max.	Х	mV
	Heated awyran gangar 1 bastar (Pank 1)	P0032	29H	08H	Max.	Х	mV
	Heated oxygen sensor 1 heater(Bank 1)	P0031	2AH	88H	Min.	Х	mV
	Heated oxygen sensor 2 heater(Bank 2)	P0052	2BH	09H	Max.	Х	mV
HO2S HTR		P0051	2CH	89H	Min.	Х	mV
	Heated oxygen sensor 2 heater(Bank 1) -	P0038	2DH	OAH	Max.	Х	mV
		P0037	2EH	8AH	Min.	Х	mV
	Heated oxygen sensor 2 heater(Bank 2)	P0058	2FH	OBH	Max.	Х	mV
		P0057	30H	8BH	Min.	Х	mV