	QUI	CK REFERENCE INDEX		
Edition: August 2002	Α	GENERAL INFORMATION	GI	General Information
Revision: November 2002	В	ENGINE	EM	Engine Mechanical
Publication No. SM2E-1B15U2			LU	Engine Lubrication System
			СО	Engine Cooling System
			EC	Engine Control System
			FL	Fuel System
			EX	Exhaust System
			ACC	Accelerator Control System
	С	TRANSMISSION/	CL	Clutch
		TRANSAXLE	MT	Manual Transaxle
			ΑT	Automatic Transaxle
	D	DRIVELINE/AXLE	FAX	Front Axle
			RAX	Rear Axle
	Е	SUSPENSION	FSU	Front Suspension
			RSU	Rear Suspension
			WT	Road Wheels & Tires
NISSAN	F	BRAKES	BR	Brake System
			РВ	Parking Brake System
SENTRA			BRC	Brake Control System
MODEL B15 SERIES	G	STEERING	PS	Power Steering System
	H RESTRAINTS		SB	Seat Belts
			SRS	Supplemental Restraint System (SRS)
	I BC	BODY	BL	Body, Lock & Security System
			GW	Glasses, Window System & Mirrors
			RF	Roof
			El	Exterior & Interior
			IP	Instrument Panel
			SE	Seat
	J	AIR CONDITIONER	MTC	Manual Air Conditioner
	K	ELECTRICAL	SC	Starting & Charging System
			LT	Lighting System
			DI	Driver Information System
			WW	Wiper, Washer & Horn
			BCS	Body Control System
			LAN	LAN System
			ΑV	Audio Visual & Telephone System
			ACS	Auto Cruise Control System

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MAINTENANCE

M INDEX

PG

MΑ

IDX

Maintenance

Alphabetical Index

Power Supply, Ground & Circuit Elements

FOREWORD

This manual contains maintenance and repair procedures for the 2002 NISSAN SENTRA.

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.





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Nissan North America, Inc. Technical Service Information 39001 Sunrise Drive, P.O. Box 9200 Farmington Hills, MI USA 48331 FAX: (248) 488-3910

SERVICE MANUA	L: Model:	Year:
PUBLICATION NO	. (Please photocopy back cover)	:
VEHICLE INFORM	IATION VIN:	Production Date:
Please describe an	y issues or problems in detail:	
Page number(s)	Note: Please in	oclude a copy of each page, marked with your comments.
If no, what page nu	mber(s)?Note: Please	easy to use? (circle your answer) YES NO include a copy of each page, marked with your comments.
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DATE:	YOUR NAME:	POSITION:
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CITY:	STATE/PROV./COUI	NTRY: ZIP/POSTAL CODE:

QUICK REFERENCE CHART: SENTRA (EQUIPPED WITH 1.8L, QG ENGINE)

PFP:00027

Engine Tune-Up Data

ELS000L4

Engine		QG18DE
Classification		Gasoline
Cylinder arrangement		4, in-line
Displacement cm ³ (cu in)		1,769 (107.94)
Bore × stroke mm (in)		80.0 x 88.0 (3.150 x 3.465)
Valve arrangement		DOHC
Firing order		1-3-4-2
Number of pieten rings	Compression	2
Number of piston rings	Oil	1
Number of main bearings		5
Compression ratio		9.5

Drive Belt Deflection and Tension

Com	nponent	Deflection Adjustment Unit: mm (in)		Tension Adjustment *1 Unit: N (kg, lb)			
		Used Belt			Used Belt		
			After Adjustment	New Belt	Limit	After Adjustment	New Belt
Generator	With air con- ditioner com- pressor	8.1 (0.319)	5.3 - 5.7 (0.209 - 0.244)	4.5 - 5.0 (0.177- 0.197)	292 (30, 66)	652 - 740 (66.5 - 75.5, 146.6 - 166.4)	789 - 877 (80.5 - 89.5, 177.4 - 197.1)
Generator	Without air conditioner compressor	10.2 (0.402)	6.5 - 7.0 (0.256 - 0.276)	5.5 - 6.1 (0.217 - 0.240)	292 (30, 60)	652 - 740 (66.5 - 75.5, 146.6 - 166.4)	789 - 877 (80.5 - 89.5, 177.4 - 197.1)
Power steering oil pump		7.1 (0.280)	4.4 - 4.9 (0.173 - 0.193)	3.9 - 4.4 (0.154 - 0.173)	196 (20, 44)	495 - 583 (50.5 -59.5, 111.4 - 131.2)	603- 691 (61.5 - 70.5, 135.6 - 155.5)
Applied pushing force		98 N (10 kg, 22 lb)			_		

^{*1:} If the belt tension gauge cannot be installed at check points shown, check belt tension at a different location on the belt.

Spark Plugs (Double Platinum - Tipped)

	Standard	PLFR5A-11
Туре	Hot	PLFR4A-11
	Cold	PLFR6A-11
Plug gap		nominal 1.1 mm (0.043 in)

Front Wheel Alignment (Unladen*1)

ELS000L6

	Minimum	-1°10' (-1.17°)
Camber	Nominal	-0°25' (-0.42°)
Degree minute (decimal degree)	Maximum	0°20′ (0.33°)
	Left and right difference	45' (0.75°) or less
	Minimum	0°51′ (0.85°)
Caster	Nominal	1°36′ (1.60°)
Degree minute (decimal degree)	Maximum	2°21′ (2.35°)
	Left and right difference	45' (0.75°) or less

		Minimum	13°58′ (13.97°)
Kingpin inclination Degree minute (decimal degree)		Nominal	14°43′ (14.72°)
		Maximum	15°28′ (15.47°)
		Minimum	1 (0.039")
	Distance mm (in)	Nominal	2 (0.079")
Total tag in		Maximum	3 (0.118")
Total toe-in	Angle (left plus right) Degree minute (decimal degree)	Minimum	5.5' (0.08°)
		Nominal	11' (0.18°)
		Maximum	16′ (0.27°)
	Inside Degree minute (decimal degree)	Minimum	34° (34.0°)
Wheel turning angle Full turn*2		Nominal	37° (37.0°)
	2 og. oo minato (doomar dogree)	Maximum	38° (38.0°)
	Outside Degree minute (decimal degree)	Nominal	31° (31.0°)

^{*1:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Rear Wheel Alignment (Unladen*)

ELS000L7

Camber Degree minute (decimal degree)		Minimum	-1°45′ (-1.75°)
		Nominal	-1°00′ (-1.00°)
2 og. 00ato (acoa.	og.co/		-0°15′ (-0.25°)
	Distance mm (in)	Minimum	-3 (-0.12)
		Nominal	1 (0.04)
Total toe-in		Maximum	5 (0.20)
iotai toe-iii	Angle (left plus right) Degree minute (decimal degree)	Minimum	-16′ (-0.27°)
		Nominal	5′30″ (0.09°)
		Maximum	26′ (0.43°)

^{*:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Brake

Unit: mm (in)

		Offic. Hilli (III)
	Brake model	CL25VA
Front brake	Cylinder bore diameter	57.2 (2.252)
From brake	Pad length \times width \times thickness	125.6 × 46.0 × 11.0 (4.94 × 1.811 × 0.433)
	Rotor outer diameter × thickness	257 × 22 (10.12 × 0.87)
	Brake model	LT20G
Door broke	Cylinder bore diameter/caliper bore diameter	15.87 (5/8) type a 17.45 (11/16) type b
Rear brake	Lining length \times width \times thickness	$219.4 \times 35 \times 4.5 \\ (8.64 \times 1.38 \times 0.177)$
	Drum inner diameter/Disc diameter × thickness	203.2 (8)
Master cylinder	Cylinder bore diameter	23.81 (15/16)
0 1 1	Valve model	Dual proportioning valve
Control valve	Split point [kPa (kg/cm², psi)] × reducing ratio	1,961 (20,284) × 0.2

^{*2:} On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

QUICK REFERENCE CHART: SENTRA (EQUIPPED WITH 1.8L, QG ENGINE)

6 1/8 qt

6.3 fl oz

7 3/8 qt

0.99 - 1.21 lb

6.1 fl oz

			,			2002	
	Booster mode	el			M21	5T	
Brake booster	Diaphragm d	iameter	Primary: 230 (9.06) Secondary: 205 (8.07)				
Brake fluid	Recommende	ed brake fluid			DO	Т3	
Disc Brake - Re	pair Limits					Unit: mm (ii	
Brake model					CL25	,	
Pad wear limit Minimum thickness	·				2.0 (0.0	079)	
Rotor repair limit Minimum thickness	ı				20 (0.	79)	
Drum Brake - Ro	epair Limits					Unit: mm (ii	
Brake model						LT20G	
Lining wear limit		Minimu	m thickness		1.5 (0.059)		
D		Maximu	Maximum inner diameter			204.5 (8.05)	
Drum repair limit		Maximu	ım out-of round		0.03 (0.0012)		
Refill Capac Engine Coolant		,				Unit: ℓ (US qt, Imp q	
Drain and refill with	out reservoir	M/T (RS5F7	M/T (RS5F70A)		6.0 (6 3/8, 5 1/4)	
		A/T (RE4F0	3B)		5.9 (6 1/4, 5 1/4)		
Reservoir tank (at I	MAX level)				0.7	(3/4, 5/8)	
Engine Oil Capa	acity (Approxi	mate)				Unit: ℓ (US qt, Imp q	
		With oil filter change			2.7 (2 7/8, 2 3/8)		
Drain and refill		Without oil filter change				2.5 (2 5/8, 2 1/4)	
Dry engine (engine overhaul)				3.1 (3 1/4, 2 3/4)			
Miscellaneous (Capacities (Ap	proximate)					
System description			Metric measurement	U	S measurement	Imp measurement	
Fuel tank			50 ℓ		13 1/4 gal	11 gal	
Power steering syst	tem		1.0 ℓ		2 1/8 pt	1 3/4 pt	
	M/T (RS5F70A)	3.0 ℓ		3 1/8 qt	2 5/8 qt	
Transaxle							

7.0 ℓ

0.45 - 0.55 kg

180 ml

Transaxle

Air conditioning system

A/T (RE4F03B)

compressor oil

refrigerant

QUICK REFERENCE CHART: SENTRA (EQUIPPED WITH 2.5L, QR ENGINE)

PFP:00027

Engine Tune-Up Data

ELS000LF

Engine	QR25DE	
Cylinder arrangement	4 in-line	
Displacement cm ³ (cu in)		2,488 (151.82)
Bore and stroke mm (in)		89.0 x 100 (3.50 - 3.94)
Valve arrangement		DOHC
Firing order		1-3-4-2
Number of pictor rings	Compression	2
Number of piston rings	Oil	1
Compression ratio		9.5
Standard		1,250 (12.8, 182)
Compression pressure kPa (kg/cm ² , psi) / 250 rpm	Minimum	1,060 (10.8, 154)
	Differential limit between cylinders	100 (1.0, 14)

Drive Belt Deflection and Tension

Plug gap

Tension of drive belts		Auto adjustment by auto-tensioner		
Spark Plugs (Double Platinum Tipped)				
	Standard	PLFR5A-11		
Туре	Hot	PLFR4A-11		
	Cold	PI FR6A-11		

Front Wheel Alignment (Unladen*1)

ELS000LI

nominal 1.1 mm (0.043 in)

		Minimum	-1°12' (-1.2°)		
Camber		Nominal	-0°27' (-0.45°)		
Degree minute (decimal degree)		Maximum	0°18′ (0.3°)		
		Left and right difference	45' (0.75°) or less		
		Minimum	0°58′ (0.97°)		
Caster		Nominal	1°43′ (1.72°)		
Degree minute (decimal degree)		Maximum	2°28′ (2.47°)		
		Left and right difference	45' (0.75°) or less		
		Minimum	14°03′ (14.05°)		
Kingpin inclination Degree minute (decir	mal degree)	Nominal	14°46′ (14.77°)		
Dogroo minute (dooi	mai dogrocy	Maximum	15°31′ (15.52°)		
		Minimum	1 (0.039")		
	Distance mm (in)	Nominal	2 (0.079")		
T-4-14 in		Maximum	3 (0.118")		
Total toe-in		Minimum	5.5′ (0.08°)		
	Angle (left plus right) Degree minute (decimal degree)	Nominal	11' (0.18°)		
	_ = =ato (aboliniai abg. 50)	Maximum	16′ (0.27°)		

QUICK REFERENCE CHART: SENTRA (EQUIPPED WITH 2.5L, QR ENGINE)

2002

	Inside Degree minute (decimal degree)	Minimum	29° (29.0°)
Who al turning angle		Nominal	32° (32.0°)
Wheel turning angle Full turn*2		Maximum	33° (33.0°)
	Outside Degree minute (decimal degree)	Nominal	27° (27.0°)

^{*1:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Rear Wheel Alignment (Unladen*)

ELS000LJ

Camber Degree minute (decimal degree)		Minimum	-1°45′ (-1.75°)
		Nominal	-1°00′ (-1.00°)
		Maximum	-0°15′ (-0.25°)
		Minimum	-3 (-0.12)
	Distance mm (in)	Nominal	1 (0.04)
Total toe-in	()	Maximum	5 (0.20)
iotai toe-in		Minimum	-16′ (-0.27°)
	Angle (left plus right) Degree minute (decimal degree)	Nominal	5′30″ (0.09°)
		Maximum	26′ (0.43°)

^{*:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Brake

LISOOOLK

Unit: mm (in)

	Brake model	CL25VB
Front brake	Cylinder bore diameter	57.2 (2.252)
FIOIR DIAKE	Pad length × width × thickness	125.6 × 46.0 × 11.0 (4.94 × 1.811 × 0.433)
	Rotor outer diameter × thickness	280 × 22 (11.02 × 0.87)
	Brake model	CL9HC
	Cylinder bore diameter/caliper bore diameter	33.96 (1 11/32)
Rear brake	Lining length × width × thickness	$89.1 \times 39.5 \times 10$ (3.508 × 1.555 × 0.39)
	Drum inner diameter/Disc diameter × thickness	258 × 9 (10.16 × 0.35)
Master cylinder	Cylinder bore diameter	23.81 (15/16)
Control valva	Valve model	Dual proportioning valve
Control valve	Split point [kPa (kg/cm² , psi)] × reducing ratio	2,942 (30,427) × 0.2
	Booster model	M215T
Brake booster	Diaphragm diameter	Primary: 230 (9.06) Secondary: 205 (8.07)
Brake fluid	Recommended brake fluid	DOT 3

Disc Brake - Repair Limits

Unit: mm (in)

Brake model	CL25VB (Front)	CL9HC (Rear)
Pad wear limit Minimum thickness	2.0 (0.079)	2.0 (0.079)
Rotor repair limit Minimum thickness	20 (0.79)	8 (0.31)

^{*2:} On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

QUICK REFERENCE CHART: SENTRA (EQUIPPED WITH 2.5L, QR ENGINE)

2002

ELS000LN

Refill Capacities Engine Coolant Capacity (Approximate)

Unit: ℓ (US qt, Imp qt)

Drain and refill (without reservoir)	M/T (RS5F51A, RS6F51H)	6.0 (6 3/8, 5 1/4)
	A/T (RE4F04B)	5.9 (6 1/4, 5 1/4)
Reservoir tank (at MAX level)		0.7 (3/4, 5/8)

Engine Oil Capacity (Approximate)

Unit: ℓ (US qt, Imp qt)

Drain and refill	With oil filter change	4.2 (4 1/2, 3 3/4)
	Without oil filter change	4.0 (4 1/4, 3 1/2)
Dry engine (engine overhaul)		4.6 (4 7/8, 4)

Miscellaneous Capacity (Approximate)

System description		Metric measurement	US measurement	Imp measurement
Fuel tank		50 ℓ	13 1/4 gal	11 gal
Power steering system		1.0 ℓ	2 1/8 pt	1 3/4 pt
Troposylo	M/T (RS5F51A, RS6F51H)	2.3 ℓ	2 3/8 qt	2 qt
Transaxle	A/T (RE4F04B)	8.5 <i>l</i>	9 qt	7 1/2 qt
Air conditioning quatem	refrigerant	0.45 - 0.55 kg	0.99 - 1.21 lb	_
Air conditioning system	compressor oil	180 ml	6.1 fl oz	6.3 fl oz

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
			TID	CID		
	T	P0420	01H	01H	Max.	1/128
	Three way catalyst function (Bank 1)	P0420	02H	81H	Min.	1
CATALYST	T	P0430	03H	02H	Max.	1/128
	Three way catalyst function (Bank 2)	P0430	04H	82H	Min.	1
	5)/AB	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
	5)/AB + 1 + A/	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
	Heated oxygen sensor 1 (Bank 2)	P0153	11H	05H	Max.	16ms
		P1163	12H	85H	Min.	10mV
		P1164	13H	05H	Max.	10mV
		P0152	14H	05H	Max.	10mV
HO2S		P0154	15H	05H	Max.	1s
	Heated oxygen sensor 2 (Bank 1)	P0139	19H	86H	Min.	10mV/500ms
		P1147	1AH	86H	Min.	10mV
		P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
		P0159	21H	87H	Min.	10mV/500ms
	Heated oxygen sensor 2 (Bank 2)	P1167	22H	87H	Min.	10mV
		P1166	23H	07H	Max.	10mV
		P0158	24H	07H	Max.	10mV
	Hastadayayayayayah hastay (Dayled)	P0032	29H	08H	Max.	20mV
	Heated oxygen sensor 1 heater (Bank 1)	P0031	2AH	88H	Min.	20mV
	11 (1 (2 1 2)	P0052	2BH	09H	Max.	20mV
LICOCLITO	Heated oxygen sensor 1 heater (Bank 2)	P0051	2CH	89H	Min.	20mV
HO2S HTR	Heated among a grant Observa (D. 1.4)	P0038	2DH	0AH	Max.	20mV
	Heated oxygen sensor 2 heater (Bank 1)	P0037	2EH	8AH	Min.	20mV
F	Heated course and Olivia (D. 10)	P0058	2FH	0BH	Max.	20mV
	Heated oxygen sensor 2 heater (Bank 2)	P0057	30H	8BH	Min.	20mV
		P0400	31H	8CH	Min.	1°C
		P0400	32H	8CH	Min.	1°C
EGR SYSTEM	EGR function	P0400	33H	8CH	Min.	1°C
		P0400	34H	8CH	Min.	1°C
		P1402	35H	0CH	Max.	1°C

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SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Conversion
0.4.7.4.7.0.7		P0420	01H	01H	Max.	1/128
CATALYST	Three way catalyst function	P0420	02H	81H	Max.	1
	EVAD acceptant countries (Occalities to	P0442	05H	03H	Max.	1/128mm ²
EVAP SYSTEM	EVAP control system (Small leak)	P1442	05H	03H	Max.	1/128mm ²
	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	20mV
		P1273	43H	0EH	Max.	0.002
	A/F sensor 1	P1274	44H	8EH	Min.	0.002
		P1275	45H	8EH	Min.	0.004
	Heated oxygen sensor 2	P0139	19H	86H	Min.	10mV/500ms
		P1147	1AH	86H	Min.	10mV
HO2S		P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
	Heated oxygen sensor 3	P0145	61H	92H	Min.	10mV/500ms
		P0144	62H	92H	Min.	10mV
		P0143	63H	12H	Max.	10mV
		P0146	64H	12H	Max.	10mV
	A/F sensor 1 heater	P1277	57H	04H	Max.	5mV
	A/F Sensor i fleater	P1277	58H	04H	Min.	5mV
HO2S HTR	Heated oxygen sensor 2 heater	P0141	2DH	0AH	Max.	20mV
HOZS HTK	Heated Oxygen Sensor 2 heater	P0141	2EH	8AH	Min.	20mV
	Heated oxygen sensor 3 heater	P0147	71H	14H	Max.	20mV
	neated oxygen sensor 3 heater	P0147	72H	94H	Min.	20mV
		P0400	31H	8CH	Min.	1°C
		P0400	32H	8CH	Min.	1°C
EGR SYSTEM	EGR function	P0400	33H	8CH	Min.	1°C
		P0400	34H	8CH	Min.	1°C
		P1402	35H	0CH	Max.	1°C

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

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SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Conversion
			TID	CID		
CATALYST	Three way catalyst function	P0420	01H	01H	Max.	1/128
0/11/12/101	Tindo way catalyot function	P0420	02H	81H	Min.	1
	EVAP control system (Small leak)	P0442	05H	03H	Max.	1/128mm ²
EVAP SYSTEM	EVAP control system purge flow monitoring	P0441	06H	83H	Min.	20mV
EVAF STSTEW	EVAD control avatam (Vany small look)	P0456	07H	03H	Max.	1/128mm ²
	EVAP control system (Very small leak)	P1456	07H	03H	Max.	1/128mm ²
	Heated oxygen sensor 1	P0133	09H	04H	Max.	16ms
		P1143	0AH	84H	Min.	10mV
		P1144	0BH	04H	Max.	10mV
		P0132	0CH	04H	Max.	10mV
HO2S		P0134	0DH	04H	Max.	1s
		P0139	19H	86H	Min.	10mV/500ms
		P1147	1AH	86H	Min.	10mV
	Heated oxygen sensor 2	P1146	1BH	06H	Max.	10mV
		P0138	1CH	06H	Max.	10mV
	Heated our way assess 4 heater	P0032	29H	08H	Max.	20mV
LICOCLITE	Heated oxygen sensor 1 heater	P0031	2AH	88H	Min.	20mV
HO2S HTR		P0038	2DH	0AH	Max.	20mV
	Heated oxygen sensor 2 heater	P0037	2EH	8AH	Min.	20mV