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ARTICLE BEGINNING

1992 ENGINE PERFORMANCE
Nissan - Service & Adjustment Specifications

Maxima, NX, Pathfinder, Pickup, Sentra, Stanza, 240SX, 300ZX

INTRODUCTION

Use this article to quickly find specifications related to servicing and on-vehicle adjustments. This article provides a quick reference when you are familiar with an adjustment procedure and only need a specification.

CAPACITIES

BATTERY SPECIFICATIONS

Application & Group	Amp Hr. Rating
Maxima	50
NX & Sentra	60
Pathfinder & Pickup	60
Stanza	60
240SX	60
300ZX	65

FLUID CAPACITIES - 4-CYLINDER

Application	Quantity
Crankcase (Includes Filter)	
NX & Sentra	
1.6L	3.4 Qts. (3.2L)
2.0L	3.6 Qts. (3.4L)
Pickup	
2WD	4.1 Qts. (3.9L)
4WD	3.5 Qts. (3.3L)
Stanza	3.75 Qts. (3.5L)
240SX	4.0 Qts. (3.8L)
Cooling System (Includes Heater)	
NX & Sentra	
1.6L	
Automatic Transmission	5.6 Qts. (5.3L)
Manual Transmission	5.4 Qts. (5.1L)
2.0L	

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      Automatic Transmission  .............  6.1 Qts. (5.8L)
      Manual Transmission  ................  5.9 Qts. (5.6L)
  Pickup
    2WD  ..................................  8.6 Qts. (8.1L)
    4WD  ..................................  9.5 Qts. (9.0L)
  Stanza  .................................  7.8 Qts. (7.4L)
  240SX  ..................................  7.1 Qts. (6.7L)
Manual Transaxle (SAE 80W-90/API GL-4)
  NX & Sentra
    4-Speed (1.6L)  .......................  6.0 Pts. (2.8L)
    5-Speed (1.6L)  .......................  6.1 Pts. (2.9L)
    5-Speed (2.0L)  .......................  7.6 Pts. (3.6L)
  Stanza  ..................................  10 Pts. (4.7L)
Manual Transmission (SAE 80W-90/API GL-4)
  Pickup (1)
    2WD  ..................................  4.2 Pts. (2.0L)
    4WD  ..................................  8.5 Pts. (4.0L)
  240SX  ..................................  5.1 Pts. (2.4L)
Automatic Transaxle (Dexron-II) (2)
  NX & Sentra
    3-Speed  ..............................  6.3 Qts. (6.0L)
    4-Speed  ..............................  7.4 Qts. (7.0L)
  Stanza  .................................  7.8 Qts. (7.4L)
Automatic Transmission (Dexron-II) (2)
  Pickup (2)
    2WD  ..................................  8.3 Qts. (7.8L)
    4WD  ..................................  9.0 Qts. (8.5L)
  240SX  ..................................  8.8 Qts. (8.3L)
Differential (SAE 80W-90/API GL-5)
  Pickup (1)
    2WD (Rear)  ...........................  3.1 Pts. (1.5L)
    4WD (Front & Rear)  ...................  2.7 Pts. (1.3L)
  240SX
    R200  .................................  2.7 Pts. (1.3L)
    R200V  ................................  3.2 Pts. (1.5L)
Transfer Case
  Pickup  .................................  2.3 Qts. (2.2L)

(1) - Start capacity. Fill to top of filler plug.
(2) - Start capacity. Fill to FULL mark on dipstick.
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FLUID CAPACITIES - V6
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Application                                             Quantity

Crankcase (Includes Filter)
  Maxima  .................................  4.1 Qts. (3.9L)
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Pathfinder & Pickup	
2WD	**4.2 Qts. (4.0L)**
4WD	**3.6 Qts. (3.4L)**
300ZX	**3.6 Qts. (3.4L)**
Cooling System (Includes Heater)	
Maxima	
VG30E	**8.8 Qts. (8.3L)**
VE30DE	**11.2 Qts. (10.6L)**
Pathfinder & Pickup	
2WD	**11.4 Qts. (10.7L)**
4WD	**12.4 Qts. (11.7L)**
300ZX	**9.5 Qts. (9.0L)**
Manual Transaxle (API GL-4)	
Maxima	**10 Pts. (4.7L)**
Manual Transmission (API GL-4/SAE 90)	
Pathfinder & Pickup (1)	
2WD	**5.1 Pts. (2.4L)**
4WD	**7.6 Pts. (3.6L)**
300ZX	**6.0 Pts. (2.8L)**
Automatic Transaxle (Dexron-II) (2)	
Maxima	
VG30E	**7.8 Qts. (7.4L)**
VE30DE	**9.9 Qts. (9.4L)**
Automatic Transmission (Dexron-II) (2)	
Pathfinder & Pickup	
2WD	**16.7 Pts. (7.9L)**
4WD	**18.0 Pts. (8.5L)**
300ZX	
Non-Turbo	**8.8 Qts. (8.3L)**
Turbo	**8.6 Qts. (8.2L)**
Differential (SAE 80W-90/API GL-5)	
Pathfinder & Pickup (1)	
Front (4WD)	**3.2 Pts. (1.5L)**
Rear (2WD & 4WD)	**5.9 Pts. (2.8L)**
300ZX	
Non-Turbo	**3.2 Pts. (1.5L)**
Turbo	**3.8 Pts. (1.8L)**
Transfer Case	
Pathfinder & Pickup	**4.6 Pts. (2.2L)**

(1) - Start capacity. Fill to top of filler plug.
(2) - Start capacity. Fill to FULL mark on dipstick.

REPLACEMENT INTERVALS

Component	Interval (Miles)
Oil & Filter	
300ZX Turbo	(1) (2) 5000
All Others	(1) 7500
Air Filter	30,000
Coolant	(3) 60,000
Fuel Filter	As Needed
Spark Plugs	
Conventional	30,000
Platinum	60,000
Timing Belt (V6 Engines)	60,000

(1) - Every 3000 miles for severe service.
(2) - Change filter every other oil change for normal service and every oil change for severe service.
(3) - Change engine coolant at 60,000 miles and then every 30,000 miles thereafter.

BELT ADJUSTMENT - 4-CYLINDER

Application	(1) Deflection - In. (mm)
Alternator	
NX & Sentra	5/16 (8)
Pickup	13/32 (10)
Stanza	1/4 (6)
240SX	9/32 (7)
A/C Compressor	
NX & Sentra (1.6L)	9/32 (7)
Pickup	13/32 (10)
Stanza	3/16 (5)
240SX	5/16 (8)
Power Steering Pump	
NX & Sentra	3/16 (5)
Pickup	3/8 (9)
Stanza	1/4 (6)
240SX	
With SUPER HICAS	9/32 (7)
Without SUPER HICAS	5/16 (8)

(1) - Deflection is with 22 lbs. (10 kg) pressure applied midway on longest belt run

BELT ADJUSTMENT - V6

Application	(1) Deflection - In. (mm)
Alternator	
Maxima	5/16 (8)
Pathfinder & Pickup	9/32 (7)
300ZX	9/32 (7)
A/C Compressor	
Maxima	1/4 (6)
Pathfinder & Pickup	3/8 (9)
300ZX	5/16 (8)
Power Steering Pump	
Maxima	
VG30E	13/32 (10)
VE30DE	5/16 (8)
Pathfinder & Pickup	7/16 (11)
300ZX	
Non-Turbo	7/16 (11)
Turbo	13/32 (10)

(1) - Deflection is with 22 lbs. (10 kg) pressure applied midway on longest belt run.

MECHANICAL CHECKS

ENGINE COMPRESSION

Check engine compression with engine at normal operating temperature at specified cranking speed, all spark plugs removed (on dual plugs, remove exhaust side only) and throttle wide open.

COMPRESSION SPECIFICATIONS - 4-CYLINDER

Application	Specification
Compression Ratio	
NX & Sentra	9.5:1
Pickup	8.6:1
Stanza	8.6:1
240SX	9.5:1
Normal Compression Pressure	
NX & Sentra	
1.6L	192 psi (13.5 kg/cmý)
2.0L	178 psi (12.5 kg/cmý)

Pickup	192 psi (13.5 kg/cmý)
Stanza	175 psi (12.3 kg/cmý)
240SX	179 psi (12.6 kg/cmý)
Minimum Compression Pressure	
NX & Sentra	
1.6L	164 psi (11.5 kg/cmý)
2.0L	149 psi (10.5 kg/cmý)
Pickup	142 psi (10.0 kg/cmý)
Stanza	146 psi (10.3 kg/cmý)
240SX	151 psi (10.6 kg/cmý)
Maximum Variation Between Cylinders	14 psi (1.0 kg/cmý)

COMPRESSION SPECIFICATIONS - V6

Application	Specification
Compression Ratio	
Maxima	
VG30E	9.0:1
VE30DE	10.0:1
Pathfinder & Pickup	9.0:1
300ZX	
Non-Turbo	10.5:1
Turbo	8.5:1
Normal Compression Pressure	
Maxima	
VG30E	173 psi (12.2 kg/cmý)
VE30DE	183 psi (12.9 kg/cmý)
Pathfinder & Pickup	173 psi (12.2 kg/cmý)
300ZX	
Non-Turbo	186 psi (13.1 kg/cmý)
Turbo	171 psi (12.0 kg/cmý)
Minimum Compression Pressure (1)	
Maxima	
VG30E	128 psi (9.0 kg/cmý)
VE30DE	142 psi (10.0 kg/cmý)
Pathfinder & Pickup	128 psi (9.0 kg/cmý)
300ZX	
Non-Turbo	142 psi (10.0 kg/cmý)
Turbo	128 psi (9.0 kg/cmý)
Maximum Variation Between Cylinders	14 psi (1.0 kg/cmý)

(1) - Minimum compression at 300-350 RPM.

NOTE: All engines, except KA24DE and GA16DE, are equipped with hydraulic lifters. No adjustments are required.

VALVE CLEARANCE SPECIFICATIONS

Application	Hot - In. (mm)
NX & Sentra 1.6L (GA16DE Engine)	
Intake	.008-.019 (.21-.49)
Exhaust	.012-.023 (.30-.58)
240SX 2.4L (KA24DE Engine)	
Intake	.012-.015 (.30-.38)
Exhaust	.013-.016 (.33-.41)

IGNITION SYSTEM

IGNITION COIL

IGNITION COIL RESISTANCE - 4-CYL (Ohms @ 68øF (20øC))

Application	Primary	Secondary
NX & Sentra		
1.6L	.9	13,000
2.0L	1.0	10,000
Pickup	.7	(1)
Stanza	.7	8000
240SX	1.0	10,000

(1) - Secondary resistance cannot be read on Pickup.

IGNITION COIL RESISTANCE - V6 (Ohms @ 68øF (20øC))

Application	Primary	Secondary
Maxima		
VG30E	1.0	8200-12,400
VE30DE	0.8	Infinite
Pathfinder & Pickup	1.0	10,000
300ZX	.7	(1)

(1) - Information not available at time of publication.

HIGH TENSION WIRE RESISTANCE

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HIGH TENSION WIRE RESISTANCE

Application (1)	Ohms
Plug Wires	30,000 Maximum
Coil Wire	7000 Maximum

(1) - Not applicable to Direct Ignition Systems (DIS).

SPARK PLUGS

SPARK PLUG TYPE - 4-CYLINDER

Application	NGK
NX & Sentra (1)	
1.6L	BKR5E
2.0L	BKR6E
Pickup	ZFR5E-11
Stanza	ZFR5E-11
240SX	BKR5E-11

(1) - Spark plug type for Sentra has been revised by manufacturer in Nissan Technical Service Bulletin number NTB93-022 to BKR5E-11 (standard), BKR4E-11 (hot type) and BKR6E-11 (cold type).

SPARK PLUG TYPE - V6

Application	NGK
Maxima	
VG30E	BKR6ES-11
VE30DE	PFR5C-11
Pathfinder & Pickup	BKR6EY
300ZX	
Non-Turbo	PFR6B-11
Turbo	PFR5B-11B

SPARK PLUG SPECIFICATIONS - 4-CYLINDER

Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)

NX & Sentra			
1.6L	**.041 (1.04)**	**14-22**	**(20-29)**
2.0L	**.033 (.84)**	**14-22**	**(20-29)**
Pickup	**.041 (1.04)**	**14-22**	**(20-29)**
Stanza	**.041 (1.04)**	**14-22**	**(20-29)**
240SX	**.041 (1.04)**	**14-22**	**(20-29)**

SPARK PLUG SPECIFICATIONS - V6

Application	**Gap In. (mm)**	**Torque Ft. Lbs. (N.m)**
Maxima	**.041 (1.04)**	**14-22 (20-29)**
Pathfinder & Pickup	**.033 (.84)**	**14-22 (20-29)**
300ZX	**.041 (1.04)**	**14-22 (20-29)**

FIRING ORDER & DISTRIBUTOR ROTATION

NOTE: For firing order and distributor rotation, see Figs. 1-3.

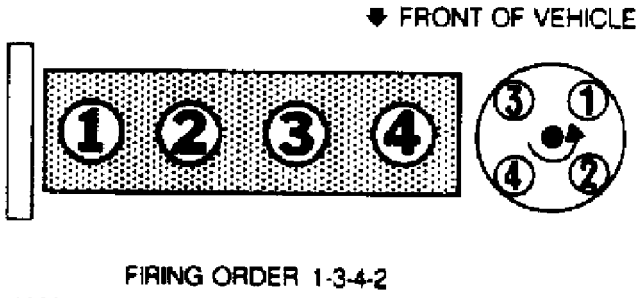


Fig. 1: Firing Order & Distributor Rotation (4-Cyl. - Except 240SX)

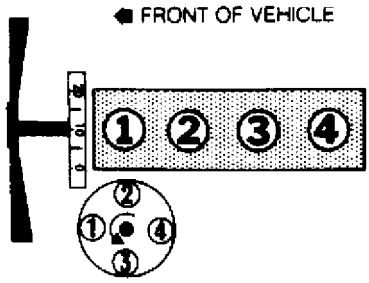
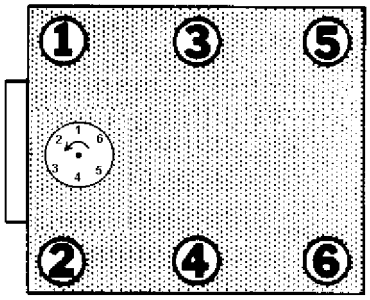


Fig. 2: Firing Order & Distributor Rotation (4-Cyl. - 240SX)

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FIRING ORDER 1-2-3-4-5-6

Fig. 3: Firing Order & Distributor Rotation (V6)

IGNITION TIMING

NOTE: For ignition timing adjustment procedures, see D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section.

IGNITION TIMING - 4-CYLINDER (Degrees BTDC @ RPM)

Application	Man. Trans.	(1) Auto. Trans.
NX & Sentra		
1.6L	10 @ 550-650	10 @ 675-775
2.0L	15 @ 700-800	15 @ 700-800
Pickup	10 @ 750-850	10 @ 750-850
Stanza	15 @ 650-750	15 @ 650-750
240SX	20 @ 600-700	20 @ 600-700

(1) - Automatic transmission/transaxle in Neutral.

IGNITION TIMING - V6 (Degrees BTDC @ RPM)

Application	Man. Trans.	(1) Auto. Trans.
Maxima		
VG30E	15 @ 700-800	15 @ 700-800
VE30DE	15 @ 650-750	15 @ 650-750
Pathfinder & Pickup	15 @ 700-800	15 @ 700-800
300ZX		
Non-Turbo	15 @ 650-750	15 @ 720-820
Turbo	15 @ 650-750	15 @ 700-800

(1) - Automatic transmission/transaxle in Neutral.

FUEL PUMP

REGULATED FUEL PRESSURE

Application	At Idle W/O Vacuum psi (kg/cmý)	At Idle W/Vacuum psi (kg/cmý)
Maxima	44 (3.1)	36 (2.5)
NX & Sentra		
1.6L & 2.0L	43 (3.0)	36 (2.5)
Pathfinder & Pickup		
4-Cylinder	43 (3.0)	33 (2.3)
V6	43 (3.0)	34 (2.4)
Stanza	43 (3.0)	33 (2.3)
240SX	43 (3.0)	34 (2.4)
300ZX	43 (3.0)	36 (2.5)

INJECTOR RESISTANCE

INJECTOR RESISTANCE SPECIFICATIONS TABL

Application	Ohms
Maxima	10-14
NX & Sentra	
1.6L	10
2.0L	10-14
Pathfinder & Pickup	
4-Cylinder	10-15
V6	10-14
Stanza	10-15
240SX	11
300ZX	10-14

IDLE SPEED & MIXTURE

NOTE: For idle speed and mixture adjustment procedures, see D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section.

IDLE SPEED & CO LEVEL - 4-CYLINDER

Application	(1) Idle RPM	(2) Idle RPM	(3) Maximum CO Level
NX & Sentra			

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1.6L			
Auto. Trans.	(4) 750-850	(4) 675-775	7%
Man. Trans.	600-700	550-650	7%
2.0L			
Auto. Trans.	(4) 750-850	(4) 700-800	10%
Man. Trans.	750-850	700-800	10%
Pickup	(4) 750-850	(4) 700-800	5%
Stanza	(4) 650-750	(4) 600-700	5%
240SX	(4) 650-750	(4) 600-700	7%

(1) - With throttle position sensor connected.
(2) - With throttle position sensor disconnected.
(3) - Measured in Self-Diagnostic Mode II.
(4) - Automatic transmission/transaxle in Neutral.
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IDLE SPEED & CO LEVEL - V6

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Application	(1) Idle RPM	(2) Idle RPM	(3) CO Level
Maxima			
VG30E	(4) 650-750	(4) 700	.2-8%
VE30DE	(4) 650-750	(4) 650-750	.2-8%
Pathfinder & Pickup			
Auto. Trans.	(4) 700-800	(4) 700	.2-8%
Man. Trans.	700-800	700	.2-8%
300ZX			
Auto. Trans.			
Non-Turbo	(4) 720-820	(4) 720	.2-8%
Turbo	(4) 700-800	(4) 700	.2-8%
Man. Trans.	650-750	650	.2-8%

(1) - With Auxiliary Air Control (AAC) valve connected.
(2) - With Auxiliary Air Control (AAC) valve disconnected.
(3) - Measured in Self-Diagnostic Mode II.
(4) - Automatic transmission/transaxle in Neutral.
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IDLE SWITCH ON-OFF (OFF-ON) SPEED

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Application	Engine RPM
V6	
Pathfinder & Pickup	800-1100
4-Cylinder	
Pickup	(1) 12

(1) - In Self-Diagnostic Mode IV. The ECU Green LED comes on when vehicle speed exceeds 12 MPH.

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THROTTLE POSITION SENSOR

For adjustment specifications, see appropriate adjustment procedures in D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section.

END OF ARTICLE