



QUICK REFERENCE SPECIFICATIONS



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200SX 1996

Quick Reference

SR Engine

SR20DE

Mark Actual
to Confirm

Notes

Engine Oil SAE 5W-30 API SG, Energy Conserving Oil
 With Oil Filter 3 5/8 qt
 Without Oil Filter 3 3/8 qt

Tune up

Spark Plugs (Platinum)

Plug Gap 0.039 - 0.043 in (1.0 - 1.1mm)

Standard	Platinum
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Standard Type	BKR6E	PFR5B-11
Hot Type	BKR5E	PFR6B-11
Cold Type	BKR7E	PFR7B-11

Ignition Timing 15° ± 2° BTDC

Base Idle 750 ± 50 rpm

Curb Idle (Target) 800 ± 50 rpm

Idle Mixture Ratio Less Than 11 % CO

Valve Clearance Less Than 0.001 in (0.025 mm)

Throttle Position Sensor

T/V Closed Approx. 0.15 - 0.85 v

T/V Open Approx. 3.5 - 4.7 v

Idle Voltage Between Open & Closed

Radiator Fill

Coolant Type Ethylene Glycol

Coolant Capacity **M/T** 6 1/2 qts **A/T** 7 qts

Compression

Standard 178 psi

Minimum 149 psi

Diff Between Cyl 14 psi

Fuel System

Recommended Fuel 87 Octane

Fuel Pressure @ Idle

Vacuum applied at fuel pressure regulator 34 psi

Vacuum released at fuel pressure regulator 43 psi

Fuel Pump Ω 0.2 - 5.0 Ω

Fuel Injector Ω 10 - 14 Ω

Sensors

Crank Position Sensor

71°F(25°C) 166 - 204Ω

Mass Air Flow Sensor

Supply Voltage 11 - 14 v

Output Volt. Idle 1.3 - 1.7 v

Mass Air Flow

At Idle	2.5 - 5.0 gm/sec	<input type="text"/>
2500 RPM	7.1 - 12.5 gm/sec	<input type="text"/>

Coolant Temp Sensor

68°F (20°C)	2.1 - 2.9 kΩ	<input type="text"/>
122°F (50°C)	0.68 - 1.0 kΩ	<input type="text"/>
194°F (90°C)	0.236 - 0.260 kΩ	<input type="text"/>

EGR Temp Sensor

32°F (0°C)	7.9 - 9.7 mΩ	<input type="text"/>
122°F (50°C)	0.57 - 0.70 mΩ	<input type="text"/>
212°F (100°C)	0.08 - 0.10 mΩ	<input type="text"/>

IACV-AAC Valve10.0 Ω **Intake Air Temperature Sensor**

68°F (20°C)	2.1 - 2.9 kΩ	<input type="text"/>
176°F (80°C)	0.27 - 0.38 kΩ	<input type="text"/>

Ft O2 Sensor Heat77°F (25°C) 3.3 - 6.3 Ω **Rr O2 Sensor Heat**77°F (25°C) 5.2 - 8.2 Ω **Cam P/Sen (OBD)**166 - 204 Ω **Electrical****Ignition System**

Firing Order 1-3-4-2

Ignition Coil

Primary Volt	12 V	<input type="text"/>
Primary Ω	0.5 - 1.0 Ω	<input type="text"/>
Secondary Ω	approx. 25.0 kΩ	<input type="text"/>
Ignition Coil Resistor	2.2 kΩ	<input type="text"/>

Battery Specs.

	USA	Canada
Group	21F	24F
Capacity	12V / 60AH	12v / 65AH
Cold Crank Amps	490 A	550 A
Reserve Capacity	88 min	113 min
Discharge Amps	245 A	275 A

Charging System

Alternator Type	LR180-741H	
Nom. Rated Out	12V / 80A	
Regulated Volts	14.1 - 14.7 V	
Hot Output Amps	More than 23A/1300rpm	<input type="text"/>
	More than 63A/2500rpm	<input type="text"/>
	More than 77A/5000rpm	<input type="text"/>

EPA Mileage Estimate (SR Engine)

(city/highway)	23/31 (MT)	23/30 (AT)
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Quick Reference

SR Engine

PREPARATION

Make sure that the following parts are in order.

1. Battery
2. Ignition system
3. Engine oil and coolant levels
4. Fuse
5. ECM harness connector
6. Vacuum hoses
7. Air intake system (Oil filler cap, oil level, etc.)
8. Fuel pressure
9. Engine compression
10. EGR valve operation (if equipped)
11. Throttle valve
12. Evaporative emission canister purge control valve.

Note:

- On A/C equipped vehicles, turn A/C "Off" for testing.
- Transmission should be in "Park" or "Neutral".
- "CO" probe should be inserted into exhaust approximately 16 inches.
- Turn off headlamps, heater blower, rear defogger, etc.
- Front wheels pointed straight.
- Perform inspection with cooling fans "Off".



QUICK REFERENCE SPECIFICATIONS



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Quick Reference

GA Engine

GA16DE

Mark Actual to Confirm

Notes

Engine Oil	SAE 5W-30 API SG, Energy Conserving Oil
With Oil Filter	3 3/8 qt
Without Oil Filter	3 qt

Tune up

Spark Plugs

Plug Gap	0.039 - 0.043 in (1.0 - 1.1 mm)
Standard Type	BKR5E-11
Hot Type	BKR4E-11
Cold Type	BKR6E-11
Cold Type	BKR7E-11

Ignition Timing

8° ± 2° BTDC

Base Idle

M/T

A/T

625 ± 50 RPM

725 ± 50 RPM

Curb Idle (Target)

USA

Canada

Auto Trans 800 ± 50 rpm

800 ± 50 rpm

Manual Trans 675 ± 50 rpm

750 ± 50 rpm

Idle Mixture Ratio

7 % CO

Valve Clearance

Intake

Exhaust

Cold Approx 68°F (20°C) 0.010 - 0.013 in (0.25 - 0.33 mm)

0.013 - 0.016 in (0.32 - 0.40 mm)

Hot Approx 176°F (80°C) 0.008 - 0.019 in (0.21 - 0.49 mm)

0.012 - 0.023 in (0.30 - 0.58 mm)

Throttle Position Sensor

T/V Closed Approx. 0.15 - 0.85 v

T/V Open Approx. 3.5 - 4.7 v

Idle Voltage Between Open & Closed

Radiator Fill

Coolant Type Ethylene Glycol

Coolant Capacity M/T

A/T

5 1/2 qts

6 qts

Compression

Standard 199 psi

Minimum 171 psi

Diff Between Cyl 14 psi

Fuel System

Fuel Pressure @ Idle

Vacuum applied at fuel pressure regulator

34 psi

Vacuum released at fuel pressure regulator

43 psi

Recommended Fuel 87 Octane

Fuel Pump Ω 0.2 - 5.0 Ω

Fuel Injector Ω 10 - 14 Ω

Sensors

Mass Air Flow Sensor

Supply Volt.	11 - 14v		<input type="text"/>
Output Volt. Idle	1.0 - 1.7v		<input type="text"/>

Mass Air Flow

At Idle	1.0 - 4.0 gm/sec		<input type="text"/>
2500 RPM	5.0 - 10.0 gm/sec		<input type="text"/>

Coolant Temp Sensor

68°F (20°C)	2.1 - 2.9 kΩ		<input type="text"/>
122°F (50°C)	0.68 - 1.0 kΩ		<input type="text"/>
194°F (90°C)	0.236 - 0.260 kΩ		<input type="text"/>

Ft 02 Sen Heater Ω	3.3 - 6.3 Ω		<input type="text"/>
Rr 02 Sen Heater Ω	5.2 - 8.2 Ω		<input type="text"/>

EGR Temp Sensor Ω	At 212°F (100°C)		<input type="text"/>
	76.8 - 93.8 kΩ		<input type="text"/>

Intake Air Temp. Sensor

68°F (20°C)	2.1 - 2.9 kΩ		<input type="text"/>
122°F (50°C)	0.68 - 1.00 kΩ		<input type="text"/>

Cam P/Sen (OBD)	M/T 432 - 528Ω	A/T 166 - 204 Ω	<input type="text"/>
F/Tank Temp Sen	68°F (20°C)	2.3 - 2.7 kΩ	<input type="text"/>
	122°F (50°C)	0.79 - 0.90 kΩ	<input type="text"/>

IACV-AAC Valve Ω	50 - 100 Ω		<input type="text"/>
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Electrical

Ignition System

Firing Order	1-3-4-2		
Ignition Coil			
Primary Volt	11 - 14V		<input type="text"/>
Primary Ω	1.0Ω		<input type="text"/>
Secondary Ω	10.0 kΩ		<input type="text"/>
Ignition Coil Resistor	2.2 kΩ		<input type="text"/>

Battery Specs.

	USA	Canada	
Group	21F	24F	
Capacity	12 / 60 V/AH	12 / 65 V/AH	
Cold Crank Amps	490 A	550 A	<input type="text"/>
Reserve Capacity	88 minutes	113 minutes	
Discharge Amps	245 A	275 A	<input type="text"/>

Charging System

Alternator Type	LR180-748		
Nom. Rated Out	12V / 70 A		
Regulated Volt	14.1 - 14.7V		
Hot Output Amps	More than 23A/1300 rpm		<input type="text"/>
(Amps/rpm)	More than 65A/2500 rpm		<input type="text"/>
	More than 77A/5000 rpm		<input type="text"/>

EPA Mileage Estimate (GA Engine)

(city/highway)	27/35 (MT)	26/33 (AT)
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Quick Reference

GA Engine

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2. Ignition system
3. Engine oil and coolant levels
4. Fuse
5. ECM harness connector
6. Vacuum hoses
7. Air intake system (Oil filler cap, oil level, etc.)
8. Fuel pressure
9. Engine compression
10. EGR valve operation (if equipped)
11. Throttle valve
12. Evaporative emission canister purge control valve.

Note:

- On A/C equipped vehicles, turn A/C "Off" for testing.
- Transmission should be in "Park" or "Neutral".
- "CO" probe should be inserted into exhaust approximately 16 inches.
- Turn off headlamps, heater blower, rear defogger, etc.
- Front wheels pointed straight.
- Perform inspection with cooling fans "Off".



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Quick Reference

SR-A/T

Mark Actual
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Notes

RE4F03V

A/T Fluid Type Nissan Matic 'D'
 Oil Capacity 7 3/8 qt
 A/T Cooler Type Fin Type Structure

Up-Shift Schedule Range (at normal operating temp.) MPH(km/h)

	Half Throttle	Full Throttle		
D ₁ → D ₂	18 - 23 (29 - 37)	35 - 40 (56 - 64)	<input type="text"/>	<input type="text"/>
D ₂ → D ₃	40 - 45 (64 - 72)	66 - 71 (107 - 115)	<input type="text"/>	<input type="text"/>
D ₃ → D ₄	68 - 73 (110 - 118)	105 - 110 (169 - 177)	<input type="text"/>	<input type="text"/>

Lock-Up Clutch (Approx. 1/4 Throttle) MPH(km/h)

	Lock-up ON	Lock-up OFF	
Gear Pos. D4 OD/on	65 - 70 (104 - 112)	57 - 62 (92 - 100)	<input type="text"/>
Gear Pos. D4 OD/off	53 - 58 (86 - 94)	52 - 57 (83 - 91)	<input type="text"/>

Stall RPM

R, D, 2, 1 position	1,850 - 2,150 rpm	<input type="text"/>
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Line Pressure

	PSI (kg/cm ²) At Curb Idle	At Stall rpm		
R - Position	124 (8.7)	255 (17.9)	<input type="text"/>	<input type="text"/>
D, 2, 1 - Position	73 (5.1)	149 (10.5)	<input type="text"/>	<input type="text"/>

Shift Solenoids

Gear	Solenoid A	Solenoid B		
1st	ON	ON	<input type="text"/>	<input type="text"/>
2nd	OFF	ON	<input type="text"/>	<input type="text"/>
3rd	OFF	OFF	<input type="text"/>	<input type="text"/>
4th	ON	OFF	<input type="text"/>	<input type="text"/>

Solenoid Valves

Solenoid Valves	Resistance	Pin Number	
Shift Solenoid A	20 - 30 Ω	6	<input type="text"/>
Shift Solenoid B	20 - 30 Ω	7	<input type="text"/>
Ovr. Clutch Solenoid	20 - 30 Ω	8	<input type="text"/>
Line Pres. Solenoid	2.5 - 5 Ω	1	<input type="text"/>
T/Conv. Clutch Sol	10 - 16 Ω	5	<input type="text"/>

ATF Temperature Sensor

68°F (20°C)	2.5 kΩ	<input type="text"/>
176°F (80°C)	0.3 kΩ	<input type="text"/>
Rev Sensor	500 - 650 Ω	<input type="text"/>

Drop Resistor	11.2 - 12.8 Ω	<input type="text"/>
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Brake Band

Anchor end pin torq. 35 - 52 in lbs.
 Num of return turns 2.5
 Lock nut torque 23 - 27 ft lbs.



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Quick Reference

SR-A/T

PRECAUTIONS

- Before performing any diagnostic test, vehicle should be driven for approximately 10 minutes to raise transmission to the proper operating temperature of 122° to 176°.
- During stall testing, never hold throttle wide open for more than 5 seconds at a time. Extended stall testing can overheat transmission and cause serious damage.
- Nissan Matic 'D' ATF is the only fluid accepted for warranty, service contracts and goodwill repairs.
- Before performing any internal repairs, thoroughly clean the outside of the transmission case to prevent contamination.
- Use lint free cloth or towels for wiping parts. Common shop towels can leave contaminating fibers on the transmission parts and cause improper transmission operation.
- When servicing the valve body, valves, sleeves, plugs, etc. should slide along the bores in the valve body under their own weight.
- Before assembly, apply a coat of ATF to all internal transmission parts. Use petroleum jelly to protect o-rings and seals, or to hold bearings and washers in place during assembly.

Important Note: Nissan Matic 'D' must be used in performing repairs paid by Nissan/Infiniti, such as warranty, service contract, or good-will repairs. There will not be reimbursement for repairs when non-genuine Nissan Matic 'D' is used.



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Quick Reference

GA-A/T

RL4F03A

Mark Actual to Confirm

Notes

A/T Fluid Type	Nissan Matic 'D'	
Oil Capacity	7 3/8 qt	
A/T Cooler Type	Fin Type Structure	
Up-Shift Schedule Range (at normal operating temp.)	mph(km/h)	
	Half Throttle	Full Throttle
D₁ → D₂	18 - 23 (29 - 37)	32 - 37 (51 - 59)
D₂ → D₃	32 - 37 (52 - 60)	60 - 65 (97 - 105)
D₃ → D₄	63 - 68 (101 - 109)	85 - 90 (136 - 145)

Lock-Up Clutch (Approx. 1/4 Throttle)	MPH(km/h)	Lock-up ON	Lock-up OFF
Gear Position D4	47 - 52 (75 - 83)	42 - 47 (68 - 76)	

Stall RPM	2,450 - 2,750 rpm
R, D, 2, 1 position	
Line Pressure	PSI (kg/cm²)

	At Curb Idle	At Stall rpm
R - Position	128 (9.0)	256 (18.0)
D - Position	92 (6.5)	185 (13.0)
2, 1 - Position	166 (11.7)	185 (13.0)

Governor Pres	MPH (km/h)	PSI (kg/km²)
	0 (0)	0 (0)
	10 (16)	9 - 10 (0.6 - 0.7)
	20 (32)	16 - 18 (1.1 - 1.3)
	50 (80)	41 - 50 (2.9 - 3.5)

Solenoid Valves	Resistance
O/D Cancel Solenoid	Approx. 25 Ω
Torq. Conv. Clutch Sol.	Approx. 25 Ω

Throttle Wire Adjustment	
Throttle Wire Stroke	1.57 - 1.65 in (40 - 42 mm)

Brake Band	
Anchor end pin torq.	35 - 52 in lbs.
Num of return turns	2.5 +/- 0.125
Lock nut torque	23 - 27 ft lbs.



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Quick Reference

GA-A/T

PRECAUTIONS

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- Nissan Matic 'D' ATF is the only fluid accepted for warranty, service contracts and goodwill repairs.
- Before performing any internal repairs, thoroughly clean the outside of the transmission case to prevent contamination.
- Use lint free cloth or towels for wiping parts. Common shop towels can leave contaminating fibers on the transmission parts and cause improper transmission operation.
- When servicing the valve body, valves, sleeves, plugs, etc. should slide along the bores in the valve body under their own weight.
- Before assembly, apply a coat of ATF to all internal transmission parts. Use petroleum jelly to protect o-rings and seals, or to hold bearings and washers in place during assembly.

Important Note: Nissan Matic 'D' must be used in performing repairs paid by Nissan/Infiniti, such as warranty, service contract, or good-will repairs. There will not be reimbursement for repairs when non-genuine Nissan Matic 'D' is used.



QUICK REFERENCE SPECIFICATIONS



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Quick Reference

SR-M/T

RS5F32V

Mark Actual to Confirm

Notes

Clutch

Pedal height "H"	6.02 - 6.42 in (153 - 163 mm)
Pedal free play "A"	0.433 - 0.591 in (11 - 15 mm)
Flywheel Run-out	Less than 0.0059 in (0.15 mm)
Clutch Disc Run-out	0.039 in (1.00 mm)
Clutch Cover Torque	7 - 14 ft/lbs (1 - 2 kg/m)
(Two Stages)	16 - 22 ft/lbs (2.2 - 3.0 kg/m)

Refill Capacity

(80W-90 API GL-4)	7 7/8 – 8 1/4 pt
Oil Level Check	1.34 - 1.57 in (34 - 40 mm)

Gear End Play

1st gear	0.0071 - 0.0122 in (0.18 - 0.31 mm)
2nd gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)
3rd gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)
4th gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)
5th gear	0.0071 - 0.0122 in (0.18 - 0.31 mm)

Clearance Between Baulk Ring And Gear

	Standard	Wear Limit	
1st Gear	0.0374 - 0.0571 in (0.95 - 1.45 mm)	0.028 in (0.7 mm)	<input type="text"/>
4th Gear	0.0354 - 0.0571 in (0.9 - 1.45 mm)	0.028 in (0.7 mm)	<input type="text"/>
5th Gear	0.035 - 0.059 in (0.9 - 1.5 mm)	0.028 in (0.7 mm)	<input type="text"/>
2nd & 3rd Outer (A)	0.028 - 0.035 in (0.7 - 0.9 mm)	0.008 in (0.2 mm)	<input type="text"/>
2nd & 3rd Inner (B)	0.024 - 0.043 in (0.6 - 1.1 mm)	0.008 in (0.2 mm)	<input type="text"/>

Reverse Check Plugs

Turning Torque	43 - 65 in/lb (50 - 75 kg/cm)	<input type="text"/>
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Input Shaft Front Bearing Snap Ring

Specified Clearance	0 - 0.004 in (0 - 0.1mm)	<input type="text"/>
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Input Shaft 5th Synchronizer Hub Snap Ring

Specified Clearance	0 - 0.004 in (0 - 0.1mm)	<input type="text"/>
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Mainshaft Bearing Adjusting Spacer

Bearing Distance "C"	9.0610 - 9.0649 in (230.15 - 230.25 mm)	<input type="text"/>
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Mainshaft C Ring

Specified Clearance	0 - 0.004 in (0 - 0.1 mm)	<input type="text"/>
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Differential Side Gear Thrust Washer

Specified Clearance	0.004 - 0.008 in (0.1 - 0.2 mm)	<input type="text"/>
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Differential Side Bearing Preload

Preload Dimension	0.0098 - 0.0118 in (0.25 - 0.30 mm)	<input type="text"/>
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Final Drive Turning Torque

Final drive only 26 - 61 in/lb (30 - 70 kg/cm)
Torq. variation per rev. 8.7 in/lb (10 kg/cm)

Input Shaft Braking Mechanism

Maximum height "H" 2.6441 - 2.6630 in (67.16 - 67.64 mm)
Clearance "C" 0.0020 - 0.0049 in (0.05 - 0.125 mm)

Mainshaft Bearing End Play

Allowable End play 0 - 0.004 in (0 - 0.1 mm)

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Total Turning Torque

Total Torque 26 - 61 in/lb (30 - 70 kg/cm)



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Quick Reference

SR-M/T

PRECAUTIONS

- Nissan does not recommend flywheel resurfacing. If flywheel is not within specification, replacement is recommended.
- Refill transmission with the proper viscosity and amount of gear lube for the anticipated temperatures.
- To help prevent clutch judder, avoid excessive grease to clutch disc splines, input shaft and throwout bearing. Be sure to clean off any excessive grease.
- On rear wheel drive vehicles, inspect the shift control lever bushing for wear and proper alignment prior to reinstallation of a removed transmission.
- To avoid transmission contamination, inspect the shift lever dust boot for cracks or damage, and replace if needed. Install plastic wire ties to insure a tight fit of the boot to the shifter and housing.
- Before reinstallation of a removed transmission, inspect the engine to transmission alignment dowels for damage. Damaged dowels can cause misalignment of the engine to transmission, and this can cause the transmission to jump out of gear.



QUICK REFERENCE SPECIFICATIONS



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Quick Reference

GA-M/T

RS5F31A

Mark Actual
to Confirm

Notes

Clutch

Pedal height "H"	6.02 - 6.42 in (153 - 163 mm)	<input type="checkbox"/>
Pedal free play "A"	0.433 - 0.591 in (11.0 - 15.0 mm)	<input type="checkbox"/>
Flywheel Run-out	Less than 0.0059 in (0.15 mm)	<input type="checkbox"/>
Clutch Disc Run-out	0.039 in (1.00 mm)	<input type="checkbox"/>
Clutch Cover Torque (Two Stages)	7.0 - 14 ft/lbs (1 - 2 kg/m) 16 - 22 ft/lbs (2.2 - 3.0 kg/m)	<input type="checkbox"/>

Refill Capacity

(80W-90 API GL-4) 6 1/8 - 6 3/4 pt

Oil Level Check

2.24 - 2.60 in (57 - 66 mm)

Gear End Play

1st gear	0.0071 - 0.0122 in (0.18 - 0.31 mm)	<input type="checkbox"/>
2nd gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)	<input type="checkbox"/>
3rd gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)	<input type="checkbox"/>
4th gear	0.0079 - 0.0118 in (0.20 - 0.30 mm)	<input type="checkbox"/>
5th gear	0.0071 - 0.0122 in (0.18 - 0.31 mm)	<input type="checkbox"/>

Clearance Between Baulk Ring And Gear

	Standard	Wear Limit	
1st - 5th Gear	0.0394 - 0.0531 in (1.0 - 1.35 mm)	0.028 in (0.7 mm)	<input type="checkbox"/>

Reverse Check Plugs

Turning Torque 43 - 65 in/lb (50 - 75 kg/cm)

Input Shaft Front Bearing Snap Ring

Specified Clearance 0 - 0.004 in (0 - 0.1mm)

Input Shaft 5th Synchronizer Hub Snap Ring

Specified Clearance 0 - 0.004 in (0 - 0.1mm)

Mainshaft C Ring

Specified Clearance 0 - 0.004 in (0 - 0.1 mm)

Differential Side Gear Thrust Washer

Specified Clearance 0.004 - 0.008 in (0.1 - 0.2 mm)

Differential Side Bearing Preload

Preload Dimension 0.0094 - 0.0126 in (0.24 - 0.32 mm)

Final Drive Turning Torque

Final drive only 17 - 69 in/lb (20 - 80 kg/cm)

Torq. variation per rev. 8.7 in/lb (10 kg/cm)

Mainshaft Bearing Preload

Preload dimension 0.0071 - 0.0106 in (0.18 - 0.27 mm)

Total Turning Torque

Total Torque 35 - 122 in/lb (40 - 140 kg/cm)



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GA-M/T

PRECAUTIONS

- Nissan does not recommend flywheel resurfacing. If flywheel is not within specification, replacement is recommended.
- Refill transmission with the proper viscosity and amount of gear lube for the anticipated temperatures.
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Quick Reference

Heater & A/C

AIR CONDITIONER

Mark Actual to Confirm

Notes

Compressor

Model DKV-14D
Type Vane Rotary

Compressor Clutch Disc-to-Pulley Clearance

0.012 - 0.024 in (0.3 - 0.6 mm)

Refrigerant

Type HFC-134a (R134a)
Capacity 1.32 - 1.54 lb.

Refrigerant Oil

Type Nissan Type "R" Lub.
Capacity 6.8 fl oz
Oil to AddPer
Evaporator 2.5 oz (75 ml)
Condenser 2.5 oz (75 ml)
*Liquid Tank 0.2 oz (5 ml)
Large Refrig. Leak 1.0 oz (30 ml)
Compressor
(*Add only if comp. is not replaced.)

Engine Idle with A/C On **GA16DE**
Approx. 900 rpm

SR20DE
Approx. 850 rpm

Performance Test

Recirculating-to-Discharge Air Temp

Recirc .Air Temp. at
Blower Assy. Inlet

Discharge Air Temp. at
Center Ventilator

Relative Humidity

50 - 60 %

F° (C°)

F° (C°)

68° (20°)

40 - 45° (4 - 7°)

77° (25°)

46 - 52° (8 - 11°)

86° (30°)

53 - 60° (12 - 16°)

95° (35°)

60 - 69° (15 - 20°)

104° (40°)

67 - 79° (20 - 26°)

60 - 70 %

68° (20°)

45 - 49° (7 - 9°)

77° (25°)

52 - 58° (11 - 15°)

86° (30°)

60 - 68° (16 - 20°)

95° (35°)

69 - 79° (20 - 26°)

104° (40°)

79 - 92° (26 - 34°)

Ambient Air Temp-to-Operating Pressure

Air temperature F°(C°)	Relative Humidity 50-70%			
	High-pres.	Low-pres.		
68°(20°)	146 - 191 psi	16 - 30 psi	<input type="text"/>	<input type="text"/>
77°(25°)	179 - 232 psi	17 - 33 psi	<input type="text"/>	<input type="text"/>
86°(30°)	213 - 273 psi	20 - 38 psi	<input type="text"/>	<input type="text"/>
95°(35°)	274 - 314 psi	23 - 47 psi	<input type="text"/>	<input type="text"/>
104° (40°)	279 - 356 psi	28 - 57 psi	<input type="text"/>	<input type="text"/>

Thermo Control Amp	F°(C°)		
Decreasing	37-38 (3 - 4)	Off (12V)	<input type="text"/>
Increasing	39-41 (4 - 5)	On (0V)	<input type="text"/>

Thermal Protector	F°(C°)		
Increasing	293-311 (145-155)	Compressor Off	<input type="text"/>
Decreasing	266-284 (130-140)	Compressor On	<input type="text"/>

Dual Pressure Switch	On / Continuity	Off / No Continuity	
PSI			
Low Pres. Side	23 - 31 inc.	23 - 28 dec	<input type="text"/>
High Pres. Side	270 - 327 dec	384 - 412 inc.	<input type="text"/>

A/C Drive Belt Deflection (Engine Cold)

	Used Belt	New Belt	
SR20DE			
Deflection Limit	0.45 - 0.49 in (12 - 13 mm)		<input type="text"/>
Deflection After Adj.	0.28 - 0.31 in (7 - 8 mm)	0.26 - 0.30 in (7 - 8 mm)	<input type="text"/>
GA16DE			
Deflection Limit	0.374 in (9.5 mm)		<input type="text"/>
Deflection After Adj.	0.24 - 0.26 in (6 - 6.5 mm)	0.20 - 0.24 in (5 - 6 mm)	<input type="text"/>



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Heater & A/C

PERFORMANCE TEST CONDITIONS

- Vehicle indoors or in the shade
- Doors closed
- Windows open
- Hood open
- Temperature on "Max" setting
- Discharge air on "Face Vent"
- Recirculation switch on "Recirc"
- Fan speed on "High"
- A/C switch "On" and verify A/C Clutch engagement
- Engine speed at 1500 RPM
- Verify heater cock is closed
- Operate the A/C system for 10 minutes before taking measurements

Precautions:

1. When removing the compressor, store it in the same position as it is mounted in the vehicle. Failure to do so may cause lubricant to enter the low pressure chamber and cause compressor damage.
2. Allow components stored in cool areas to warm to area temperatures before removing seals. This prevents condensation from forming inside A/C components.



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Quick Reference

Suspension

WHEEL ALIGNMENT (UNLADEN)

Mark Actual
to Confirm

Notes

Toe-in	Range	Nominal		
Total toe-in (A - B)	0.00 - 0.16 in (0 - 4 mm)	0.08 in (2 mm)	<input type="text"/>	
Total toe-in angle (left plus right)	0.00° - 0.40° (0' - 24')	0.20° (12')	<input type="text"/>	
Front Wheel Turning Angle (full turn)				
	Manual Steering	Power Steering		
In/Wheel Range	38.00° - 42.00° (38° 00' - 42° 00')	34.00° - 38.00° (34° 00' - 38° 00')	<input type="text"/>	
In/Wheel Nominal	41.00° (41° 00')	37.00° (37° 00')	<input type="text"/>	
Out/Wheel Nominal	34.00° (34° 00')	31.00° (31° 00')	<input type="text"/>	
Camber				
Range	-1.33° to 0.17° (-1° 20' to 0° 10')		<input type="text"/>	<input type="text"/>
Nominal	-0.58° (-0° 35')			
Left/Right Difference	1.00° (1° 00')			
Caster				
Range	0.67° - 2.17° (0° 40' - 2° 10')		<input type="text"/>	<input type="text"/>
Nominal	1.42° (1° 25')			
Left/Right Difference	1.00° (1° 00')			
Kingpin Inclination				
Range	14.00° - 15.50° (14° 00' - 15° 30')		<input type="text"/>	<input type="text"/>
Nominal	14.75° (14° 45')			
Set Back	0.0 in +/- (0.0 mm +/-)		<input type="text"/>	<input type="text"/>
Wheelbase	99.8 in (2,535 mm)		<input type="text"/>	
Rear Wheel Alignment				
	Range	Nominal		
Total toe-in (A - B)	-0.12 in to 0.20 in (-3 to 5 mm)	0.04 in (1 mm)	<input type="text"/>	
Total toe-in angle (left plus right)	-0.30° to 0.50° (-0° 18' to 0° 30')	0.10° (0° 6')	<input type="text"/>	
Camber				
Range	-1.75° to -0.25° (-1° 45' to -0° 15')		<input type="text"/>	<input type="text"/>
Nominal	-1.00° (-1° 00')			
Thrust Angle	0.0° +/- (0°00' +/-)		<input type="text"/>	
Ball Joint End Play	Vertical End Play	0 in(0 mm)	<input type="text"/>	<input type="text"/>
Front Wheel Bearing				
Axial End Play	0.0020 in (0.05 mm) or less		<input type="text"/>	<input type="text"/>
Lock nut torque	145 - 202 ft/lb (20 - 28 kg/m)			

Rear Wheel Bearing

Axial End Play 0.0020 in (0.05 mm) or less
Lock nut torque 137 - 188 ft/lb (19 - 26 kg/m)

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Wheel Runout

	Aluminum Wheel	Steel Wheel
Max. Lateral Run out:	0.012 in (0.3 mm)	0.031 in (0.8 mm)
Max. Radial Run out:	0.012 in (0.3 mm)	0.020 in (0.5 mm)

Wheel arch Height (Unladen)

Tire Size	Front Height (Hf)	Rear Height (Hr)
155SR13	25.94 in (659 mm)	25.20 in (640 mm)
175/70R13	25.94 in (659 mm)	25.28 in (642 mm)
175/65R14	26.22 in (666 mm)	25.51 in (648 mm)
195/55R15	26.34 in (669 mm)	25.59 in (650 mm)

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W/Lug Nut Torque 72-87 ft/lb (10-12 kg/m)



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Quick Reference

Suspension

PRELIMINARY INSPECTION

- Check tires for wear and proper inflation
- Check wheel runout
- Check front wheel bearings excessive play
- Check front suspension for excessive play
- Check steering linkage for excessive play
- Check struts for leakage and condition
- Check vehicle for proper ride height

Precautions

1. When installing rubber parts, final tightening must be carried out under unladen conditions with the tires on the ground.
2. Recheck alignment after installing removed suspension components.



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Brakes

BRAKE SYSTEM

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Notes

Brake Model Code	GA16DE CL22VD	SR20DE AD22VE		
Brake Fluid	DOT 3 (Recommended)			
Master Cyl. Bore Dia.				
W/O ABS	13/16 in (20.64 mm)			
W/ABS		7/8 in (22.22 mm)	<input type="checkbox"/>	
GA16DE 10/16/95	2/967/8 in(22.22 mm)			
Frt Caliper Bore Dia.	2.126 in (54.0 mm)	2.126 in (54.0 mm)		
Frt Brake Pad Dimensions				
Length	4.17 in (106 mm)	4.17 in (106 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Width	1.555 in (39.5 mm)	1.555 in (39.5 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Thickness	0.43 in (11.0 mm)	0.43 in (11.0 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Frt Brake Pad Wear Limit				
Min. Thickness	0.079 in (2.0 mm)	0.079 in (2.0 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Frt Brake Rotor Dimensions				
Outer Diameter	9.13 in (232.0 mm)	9.72 in (247.0)	<input type="checkbox"/>	<input type="checkbox"/>
Standard Thickness	0.71 in (18.0 mm)	0.71 in (18.0 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Frt Brake Rotor Repair/Wear Limits				
Max. Runout	0.0028 in (0.07 mm)	0.0028 in (0.07 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Min. Thickness	0.630 in (16.0 mm)	0.630 in (16.0 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Max. Thk. Variation	0.0008 in (0.02 mm)	0.0008 in (0.02 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Rear Brake Code	Rear Drum LT18C	Rear Disc CL7HB		
Rear Cylinder/Caliper	5/8 in (15.87 mm)	1 1/4 in (30.23mm)	<input type="checkbox"/>	
Rear Pad/Shoe Dimensions				
Length	6.80 in (172.8 mm)	3.7 in (94mm)	<input type="checkbox"/>	<input type="checkbox"/>
Width	1.18 in (30 mm)	1.14 in (29)	<input type="checkbox"/>	<input type="checkbox"/>
Thickness	0.16 in (4.0 mm)	0.39 in (10 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Rr Pad/Shoe Min Thk	0.059 in (1.5mm)	0.059 in (1.5 mm)	<input type="checkbox"/>	<input type="checkbox"/>
Rear Drum/Rotor Dimensions				
Drum inside diameter	7.09 in (180mm)		<input type="checkbox"/>	<input type="checkbox"/>
Rotor Thickness		0.28 in (7 mm)		
Rotor outside diameter		9.21 in (234 mm)	<input type="checkbox"/>	<input type="checkbox"/>

Rear Brake Drum/Rotor Repair/Wear Limits

Max. Inside Dia.	7.13 in (181 mm)	
Max Out-of-Round	0.0012 in (0.03 mm)	
Minimum Thickness		0.236 in (6.0 mm)
Maximum Runout		0.0028 in (0.07 mm)
Maximum Thickness Variation		0.0008 in (0.02 mm)

Brake Pedal Dimen.

	Manual Trans	Auto Trans
Free Height 'H'	5.83 - 6.22 in (148 - 158 mm)	6.18 - 6.57 in (157 - 167 mm)
Depressed Height 'D'	2.95 in (75 mm)	3.35 in (85 mm)
Switch Clearance 'C'	0.012 - 0.039 in (.3 - 1.0 mm)	
Pedal Free Play 'A'	0.039 - 0.118 in (1.0 - 3.0 mm)	

Brake Booster

	S205 or C205 or M195T
Output Rod Length	0.404 - 0.414 in (10.275 - 10.525 mm)
Clevis Length	4.9 in (125 mm)

Proportioning Valve Pressure

	Applied Pressure (Front Brakes)	Output Pressure (Rear Brakes)
GA16DE	1067 psi (75 kg/cm ²)	739 - 796 psi (52-56 kg/cm ²)
SR20DE	924 psi (65 kg/cm ²)	597 - 654 psi (42-46 kg/cm ²)

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Parking Brake Control

	Drum	Disc
Number of Notches	7 - 8	8 - 9
	[Under force of 44 lb (20 kg)]	

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ABS Wheel Sensor

Clearance Frt/Rr	0.004 - 0.043 in (0.1 -1.1 mm)
Resistance	0.8 - 1.2 kΩ

Wheel Lug Nut

72-87 ft lb (10-12 kg-m)



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Quick Reference

Brakes

PRECAUTIONS

1. Never reuse drained brake fluid.
2. Be careful not to splash brake fluid on painted surfaces.
3. Use clean brake fluid to clean or wash master cylinder wheel cylinders, and disc brake calipers parts.
4. Mineral oils such as gasoline and kerosene should not be used. They can cause damage to rubber parts of the hydraulic system.
5. Use flare nut wrench when removing or installing brake line fittings.
6. Always torque brake lines.
7. Always replace brake pad shims when replacing brake pads.

Warning:

Clean brake pads and shoes with a dust collector to minimize the hazard of airborne particles or other materials.



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Quick Reference

Electrical

ELECTRICAL

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Notes

Wire Color Code

B = Black	BR = Brown
W = White	OR = Orange
R = Red	P = Pink
G = Green	PU = Purple
L = Blue	GY = Gray
Y = Yellow	SB = Sky Blue
LG = Light Green	CH = Dark Brown
DG = Dark Green	

When a wire color is striped, the base color is given first, followed by the stripe color. Example L/W = Blue with white stripe

Battery specification:

Group size	21F
Capacity	12 V / 60 AH
Cold cranking current	490 A
Reserve capacity	88 minutes

Load test at 3 × AH for 15 seconds.

Battery charging rates:

Amps	Time
50	1 hour
25	2 hours
10	5 hours
5	10 hours

Do not charge battery over 50 ampere rate.

Do not "quick charge" a full discharged battery.

If battery electrolyte temperature rises above 140°F, stop charging

Starter: (Engine GA)

Type	M0T80281ZC	M2T49283ZC	S114-802A
	MITSUBISHI		HITACHI
Applied Model	Reduction	Non-reduction	Reduction
	M/T		A/T
	Federal	California	
No-load Current	90 A Max.	53 A Max.	90 A Max.
No-load RPM	2750 Min.	6000 Min.	2750 Min

Starter: (Engine SR)

Type	M1T72985A	S114-701C
	MITSUBISHI	
	Reduction	Reduction
No-load Current	90 A Max.	90 A Max.
No-load RPM	3000 Min.	2950 Min

Alternator: (Engine GA)

Type	HITACHI LR170-748
Nominal Rating	12 V / 70 A
Regulated Output Voltage	14.1 - 14.7
Output Current A/RPM	More Than 22 / 1,300
(with 13.5 V applied)	More Than 50 / 2,500
	More Than 67 / 5,000

Alternator: (Engine SR)

Type	HITACHI LR180-741H
Nominal Rating	12 V / 80 A
Regulated Output Voltage	14.1 - 14.7
Output Current A/RPM	More Than 23 / 1,300
(with 13.5 V applied)	More Than 63 / 2,500
	More Than 77 / 5,000

Thermal Transmitter (Water Temp. Sensor For Gauge)

Water Temperature	Resistance
140°F (60°C)	Approx. 70 - 90 Ω
212°F (100°C)	Approx. 21 - 24 Ω

Oil Pressure Switch:

Oil pressure PSI	Continuity
More Than 10 - 20	NO
Less Than 10 - 20	YES

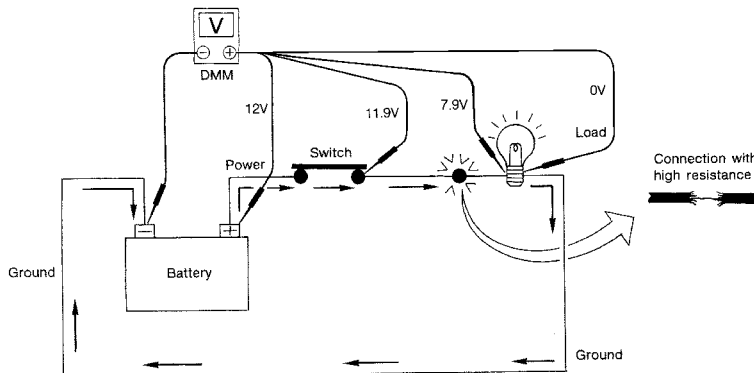
Bulb Specifications:

Item	Wattage (12V)	Bulb No.
Headlamp High/Low	65/45	HB9004
Front Combination Lamp	27/8	1157NA
Front Fog Lamp	35	H3 (special)
Rear Turn Signal	27	1156
Stop/Tail Lamp	27/8	1157
Center Stop Lamp	13	912
Back-up Lamp	27 (200SX)	1156
License Plate Lamp	5	168

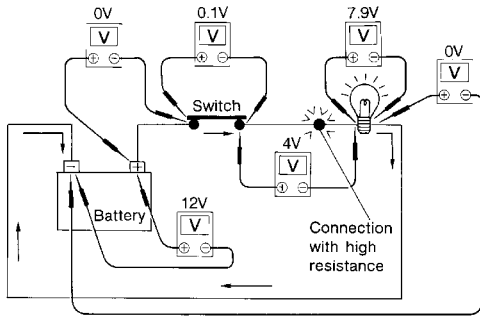
How to perform voltage drop test: See Illustrations

Symptom: Dim bulb or no operation

0 (zero) ohm resistance between switch and bulb



AGI069



1. Connect the voltmeter as shown, starting at the battery and working your way around the circuit.
2. An unusually large voltage drop will indicate a component or wire that needs to be repaired. In the illustration, the poor connection causes a 4 volt drop.

The chart that follows illustrates some maximum allowable voltage drops. These values are given as a guideline, the exact value for each component may vary.

COMPONENT	VOLTAGE DROP
Wire	negligible <.001 volts
Ground Connections	Approx. 0.1 volts
Switch Contacts	Approx. 0.3 volts

AGI055



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Quick Reference

Electrical

BATTERY CONDITION

Battery Sulphation:

A battery will be completely discharged if it is left unattended for a long time and the specific gravity becomes less than 1.100. This may result in sulphation on the cell plates. To determine if a battery has been sulfated, note its voltage and current when charging. If low current and higher voltage are observed in the initial stages of charging a sulfated battery is likely. A sulfated battery may sometimes be brought back into service by means of a long slow charge, 12 hours or more.

Checking Battery Specific Gravity With Hydrometer

Hydrometer temperature correction

Battery electrolyte temp. °C (°F)	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (129)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	-0.004
16 (60)	-0.008
10 (50)	-0.012
4 (39)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024
-12 (10)	-0.028
-18 (0)	-0.032

Corrected specific gravity	Approximate charge condition
1.260 - 1.280	Fully charged
1.230 - 1.250	3/4 charged
1.200 - 1.220	1/2 charged
1.170 - 1.190	1/4 charged
1.140 - 1.160	Almost discharged

- Do not quick charge a fully discharged battery.
- After charging, if the specific gravity of any two cells varies more than .050, the battery should be replaced.

