



QUICK REFERENCE SPECIFICATIONS



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Quick Reference

Engine

KA24DE

Mark Actual to Confirm

Notes

Engine Oil	SAE 5W-30 (API SG, Energy Conserving Oil)
With Oil Filter	4 qt
Without Oil Filter	3 3/4 qt

Tune up

Spark Plugs

Standard Type	PFR5C-11
Cold Type	PFR6C-11
	PFR7C-11
Plug Gap	0.039 - 0.043 in (1.0 - 1.1mm)

Ignition Timing

20° ± 2° BTDC

Base Idle

650 ± 50 rpm

Curb Idle (Target)

700 ± 50 rpm

Idle Mixture Ratio

less than 7 % CO

Valve Clearance Hot

In/Ex 0.013 - 0.016 in (0.33 - 0.41 mm)

Throttle Position Sensor

T/P Closed	Approx. 2 kΩ
T/P Open	Approx. 10 kΩ
T/P/S Idle Volt	0.4 - 0.5 V

Radiator Fill

Coolant Type	Ethylene Glycol
Coolant Capacity	7 1/8 qt

Compression Test

Standard	179 psi
Minimum	151 psi
Diff Between Cyl.	14 psi

Fuel System

Fuel Pump Pressure @ Idle

Vacuum applied at fuel pressure regulator	34 psi
Vacuum released at fuel pressure regulator	43 psi

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Recommended Fuel

87 Octane

Fuel Pump

0.2 - 5.0 Ω

Fuel Injector

10 - 14 Ω

Sensors

Mass Air Flow Sensor

Supply Volt.	11 - 14 v
Output Volt	1.3 - 1.7 v

Coolant Temperature Sensor

68°F (20°C)	2.1 - 2.9 kΩ
122°F (50°C)	0.68 - 1.00 kΩ
194°F (90°C)	0.236 - 0.260 kΩ

IACV-AAC Valve

Approx. 10 Ω

IACV Air Reg

Approx. 75 Ω

EGR Temp Sensor @ 212°F (100°C)
85.3 ± 8.53 kΩ

**Electrical
Ignition System
Firing Order**

1-3-4-2

Ignition Coil

Primary Voltage

11 - 14 v

Primary

Approx 1 Ω

Secondary

Approx 10 kΩ

Ign Coil Resistor

Approx. 2.2 kΩ

Ignition Wires

Less than 9.1 kΩ/ft (30 kΩ/m)

Battery Specs.

Type

USA
55D23R

Canada
65D26R

Capacity

12v / 60ah

12v / 65ah

Cold Crank Amp

356 amps

413 amps

Discharge Amps

180 amps

195 amps

Charging System

Alternator Type

LR180-729

A2T29892

Nominal Rated Out

12v / 80a

12v / 80a

Regulated Volts

14.1 -14.7 v

14.1 -14.7 v

Hot Output Amps

More than 23/1300

More than 21/1300

(Amps/rpm)

More than 63/2500

More than 60/2500

More than 77/5000

EPA Mileage Estimate

(city/highway)

22/28 (MT) 21/26 (AT)



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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".



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A/T

RE4F01A

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Notes

A/T Fluid Type Nissan Matic 'D'
Oil Capacity 8 3/4 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	24 - 27 (39 - 43)	35 - 37 (56 - 60)	<input type="text"/>	<input type="text"/>
D ₂ → D ₃	46 - 50 (74 - 80)	63 - 68 (101 - 109)	<input type="text"/>	<input type="text"/>
D ₃ → D ₄	70 - 75 (112 - 120)	98 - 104 (158 - 168)	<input type="text"/>	<input type="text"/>

Lock-Up Clutch MPH(km/h)

Half Throttle	Lock Up ON	Lock Up OFF	
O/D Sw ON (D4)	70 - 75 (112 - 120)	63 - 68 (103 - 109)	<input type="text"/>
O/D Sw OFF (D3)	57 - 62 (91 - 99)	53 - 58 (86 - 94)	

Full Throttle			
O/D Sw ON (D4)	99 - 104 (159 - 167)	95 - 100 (153 - 161)	<input type="text"/>
O/D Sw OFF (D3)	63 - 68 (101 - 99)	57 - 62 (91 - 99)	

Stall Rpm R, D, 2, 1 position 2,050 - 2,250 rpm

Line Pressure	psi (kg/cm ²)	At Stall rpm		
D,2,1 - Position	61 - 67 (4.3 - 4.7)	148 - 159 (10.4 - 11.2)	<input type="text"/>	<input type="text"/>
R - Position	85 - 91 (6.0 - 6.4)	206 - 218 (14.5 - 15.3)	<input type="text"/>	<input type="text"/>

Shift Solenoids

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

Solenoid Valves

Solenoid Valves	Resistance	Pin Number	
Shift Solenoid A	20 - 40 Ω	6	<input type="text"/>
Shift Solenoid B	20 - 40 Ω	7	<input type="text"/>
Ovr. Clutch Solenoid	20 - 40 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 Temp 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

Drop Resistor 11.2 - 12.8 Ω

Brake Band

Anchor end pin torq. 35 - 52 in lbs.
 Num of return turns 2.5



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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

M/T

FS5W71C

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Notes

Clutch

Pedal Height "H"	7.32 - 7.72 in (186 - 196 mm)	<input type="checkbox"/>
Pedal Free Play "A"	0.039 - 0.118 in (1.0 - 3.0 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	7 - 14 ft/lbs (1 - 2 kg/m)	
(Two Stages)	16 - 22 ft/lbs (2.2 - 3.0 kg/m)	

Diaphragm Spring Toe Height (Uneven Limit)

0.028 in (0.7 mm)

Refill Capacity

(75W-90 API GL-4) 5 1/8 pt

Gear End Play

1 st gear	0.0122 - 0.0161 in (0.31 - 0.41 mm)	<input type="checkbox"/>
2 nd & 3 rd gear	0.0043 - 0.0083 in (0.11 - 0.21 mm)	<input type="checkbox"/>
OD gear	0.0094 - 0.0161 in (0.24 - 0.41 mm)	<input type="checkbox"/>

Clearance Between Baulk Ring And Gear

	Standard	Wear Limit	
1 st , 3 rd , 4 th & OD Gear	0.047 - 0.063 in (1.2 - 1.6 mm)	0.031 in (0.8 mm)	<input type="checkbox"/>
2 nd Gear Inner (A)	0.028 - 0.035 in (0.7 - 0.9 mm)	0.008 in (0.2 mm)	<input type="checkbox"/>
2 nd Gear Outer (B)	0.024 - 0.043 in (0.6 - 1.1 mm)	0.008 in (0.2 mm)	<input type="checkbox"/>
Reverse Gear	Standard	Wear Limit	
(Dimension A)	0.0433 - 0.061 in (1.1 - 1.55 mm)	0.028 in (0.7 mm)	<input type="checkbox"/>

Main Drive Gear Bearing Snap Ring Allowable Clearance Thickness

0 - 0.0051 in (0 - 0.13mm)

Mainshaft Front Snap Ring Allowable Clearance Thickness

0 - 0.0071 in (0 - 0.18mm)

Mainshaft Rear Bearing Snap Ring Allowable Clearance Thickness

0 - 0.0055 in (0 - 0.14mm)

Countershaft Drive Gear Bearing Snap Ring Allowable Clearance Thickness

0 - 0.0071 in (0 - 0.18mm)

Countershaft Front Bearing Shim Allowable Clearance Thickness

0 - 0.0063 in (0 - 0.16mm)



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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.



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Quick Reference

Heater & A/C

AIR CONDITIONER

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Notes

Compressor

Make Calsonic
Type V-5 Var. Displacement

Compressor Clutch

Disc-to-Pulley Clearance 0.12 - 0.024 in (0.3 - 0.6 mm)

Refrigerant

Type HFC-134a (R134a)
Capacity 1.8 - 2.0 lb

Refrigerant Oil

Type SUNISO 5GS or Equal
Capacity 8.0 fl oz
Oil to Add Per
Evaporator 1.5 - 2.5 oz (45 - 75 ml)
Condenser 1.0 - 1.7 oz (30 - 50 ml)
*Liquid Tank 0.5 - 0.8 oz (15 - 25 ml)
Large Refrig. Leak 1.0 - 1.7 oz (30 - 50 ml)
Compressor
(*Add only if comp. is not replaced.)

Engine Idle with A/C On Approx. 1000 ± 50 rpm in Neutral

Performance Test

Recirculating-to-Discharge Air Temp

Relative Humidity	Recirc .Air Temp. at Blower Assy. Inlet	Discharge Air Temp. at Center Ventilator		
	F° (C°)	F° (C°)		
50 - 60 %	77°(25°)	44 - 48° (7 - 9°)	<input type="checkbox"/>	<input type="checkbox"/>
	86°(30°)	50 - 54° (10 - 12°)	<input type="checkbox"/>	<input type="checkbox"/>
	95°(35°)	56 - 61° (13 - 17°)	<input type="checkbox"/>	<input type="checkbox"/>
	104° (40°)	64 - 69° (18 - 21°)	<input type="checkbox"/>	<input type="checkbox"/>

60 - 70 %	77°(25°)	48 - 52° (9 - 11°)	<input type="checkbox"/>	<input type="checkbox"/>
	86°(30°)	54 - 59° (12 - 15°)	<input type="checkbox"/>	<input type="checkbox"/>
	95°(35°)	61 - 66° (16 - 19°)	<input type="checkbox"/>	<input type="checkbox"/>
	104° (40°)	69 - 74° (21 - 23°)	<input type="checkbox"/>	<input type="checkbox"/>

Ambient Air Temp-to-Operating Pressure

Air temperature F°(C°)	Relative Humidity 50-70%			
	High-pres. PSI	Low-pres. PSI		
77°(25°)	108 - 132	26 - 31	<input type="checkbox"/>	<input type="checkbox"/>
86°(30°)	128 - 158	23 - 28	<input type="checkbox"/>	<input type="checkbox"/>
95°(35°)	151 - 185	24 - 31	<input type="checkbox"/>	<input type="checkbox"/>
104° (40°)	173 - 210	26 - 37	<input type="checkbox"/>	<input type="checkbox"/>

Dual-Pres Switch

High Side Line Pres. PSI
Inc.26 - 34
Dec. 270 - 327
Inc.356 - 412

Operation/Continuity
On/Exists
Off/No Continuity

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Thermo Control Amp	Dec. 26 - 31		<input type="checkbox"/>	<input type="checkbox"/>	
	F°(C°)				
	Dec. 35 - 37 (1.5 - 2.5)	Voltage	Off (12V)	<input type="checkbox"/>	<input type="checkbox"/>
	Inc.37 - 39 (3 - 4)		On (0V)	<input type="checkbox"/>	<input type="checkbox"/>
Coolant Temp Switch					
	F°(C°)	Switch Op.	Continuity		
	185 - 196 (85 - 91)	Off	No	<input type="checkbox"/>	<input type="checkbox"/>
	198 - 208 (92 - 98)	On	Yes	<input type="checkbox"/>	<input type="checkbox"/>
Ambient Temp Switch					
	F°(C°)	Switch Op.	Continuity		
	66 - 72 (19 - 22)	Off	No	<input type="checkbox"/>	<input type="checkbox"/>
	72 - 77 (22 - 25)	On	Yes	<input type="checkbox"/>	<input type="checkbox"/>
A/C Drive Belt Deflection					
Engine Cold		Used Beltin (mm)	New Beltin (mm)		
Deflection Limit		0.47 (12)	0.47 (12)	<input type="checkbox"/>	
Deflection After Adjustment					
		0.30 - 0.34 (8 - 9)	0.26 - 0.30 (7 - 8)	<input type="checkbox"/>	



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Quick Reference

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)

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Notes

	Range	Nominal		
Toe-in				
Total toe-in (A - B)	0.012 - 0.091 in (0.3 - 2.3 mm)	0.098 in (2.5 mm)	<input type="text"/>	
Total toe-in angle (left plus right)	0.13° - 0.33° (2' - 13')	0.23° (7')	<input type="text"/>	
Front Wheel Turning Angle (full turn)				
	Power Steering			
In/Wheel Range	39.00° - 43.00° (39° 00' - 43° 00')		<input type="text"/>	
In/Wheel Nominal	42.00° (42° 00')		<input type="text"/>	
Out/Wheel Nominal	33.00° (33° 00')		<input type="text"/>	
Camber				
Range	-1.50° - 0.00° (-1° 30' - 0° 00')		<input type="text"/>	<input type="text"/>
Nominal	-0.75° (-0° 45')			
Caster				
Range	6.00° - 7.50° (6° 00' - 7° 30')		<input type="text"/>	<input type="text"/>
Nominal	6.75° (6° 45')			
Kingpin Inclination				
Range	12.92° - 14.42° (12° 30' - 14° 00')		<input type="text"/>	<input type="text"/>
Nominal	13° 67' (13° 40')			
Set Back	0.0in +/- (0.0 mm +/-)		<input type="text"/>	<input type="text"/>
Rear Wheel Alignment				
Toe-in				
Total toe-in (A - B)	0.020 in - 0.177 in (0.5 - 4.5 mm)	0.88 in (2.2 mm)	<input type="text"/>	
Total toe-in angle (left plus right)	-0.00° - 0.47° (3' - 25')	0.23° (14')	<input type="text"/>	
Camber				
Range	-1.67° - -0.67° (-1° 36' - -0° 36')		<input type="text"/>	<input type="text"/>
Nominal	-1.00° (-1° 00')			
Thrust Angle	0.0° +/- (0°00' +/-)		<input type="text"/>	<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	108 - 159 ft/lb (15 - 22 kg/m)			
Rear Wheel Bearing				
Axial End Play	0.0020 in (0.05 mm) or less		<input type="text"/>	<input type="text"/>
Lock nut torque	152 - 202 ft/lb (21.0 - 27.9 kg/m)			
Wheel Runout	Aluminum Wheel	Steel Wheel		
Max. Lateral Runout:	0.012 in (0.3 mm)	0.031 in (0.8 mm)	<input type="text"/>	<input type="text"/>
Max. Radial Runout:	0.012 in (0.3 mm)	0.020 in (0.5 mm)	<input type="text"/>	<input type="text"/>
Wheelarch Height (Unladen)				
	Front Height (Hf)	Rear Height (Hr)	<input type="text"/>	<input type="text"/>
	27.32 in (694 mm)	26.38 in (670 mm)	<input type="text"/>	<input type="text"/>
W/Lug Nut Torque	72-87 ft/lb (10-12 kg/m)			



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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	W / O ABS CL22VB	W / ABS CL25VA
Brake Fluid	DOT 3 (Recommended)	
Master Cyl. Bore Dia.	7/8 in (22.22 mm)	15/16 in (23.81 mm)
Front Caliper Bore Dia.	2.126 in (54.0 mm)	2.252 in (57.2 mm)
Frt Brake Pad Dims		
Length	4.44 in (112.8 mm)	4.94 in (125.6 mm)
Width	1.764 in (44.8 mm)	1.783 in (45.3 mm)
Thickness	0.394 in (10.0 mm)	0.433 in (11.0 mm)
Front Brake Pad Wear Limit		
Min. Thickness	0.079 in (2.0 mm)	
Front Brake Rotor Dimensions		
Outer Diameter	9.92 in (252.0 mm)	10.12 in (257.0 mm)
Standard Thickness	0.79 in (20.0 mm)	0.87 in (22.0 mm)
Front Brake Rotor Repair/Wear Limits		
Max. Runout	0.0028 in (0.07 mm)	0.0028 in (0.07 mm)
Min. Thickness	0.709 in (18.0 mm)	0.787 in (20.0 mm)
Max. Thk. Variation	0.0008 in (0.02 mm)	0.0008 in (0.02 mm)
Rear Brake Code	CL9H	
Rear Cylinder/Caliper	1.337 in (33.96mm)	
Rear Pad Dimensions		
Length	2.95 in (75 mm)	
Width	1.57 in (40.0 mm)	
Thickness	0.37 in (9.5 mm)	
Rr Pad Min Thk	0.79 in (2.0 mm)	
Rear Rotor Dimensions		
Rotor Thickness	0.35 in (9 mm)	
Rotor outside diameter	10.16 in (258 mm)	
Rear Brake Rotor Repair/Wear Limits		
Minimum Thickness	0.315 in (8.0 mm)	
Maximum Runout	0.0028 in (0.07 mm)	
Max Thk Variation	0.0008 in (0.02 mm)	
Brake Pedal Dimen.	Manual Trans	Auto Trans
Free Height 'H'	6.97 - 7.36 in (177 - 187 mm)	7.32 - 7.72 in (186 - 196 mm)
Depressed Height 'D'	3.94 in (100.0 mm)	
Pedal Free Play 'A'	0.04 - 0.12 in (1.0 - 3.0 mm)	
Switch Clearance 'C'	0.012 - 0.039 in (.3 - 1.0 mm)	
Brake Booster		
Output Rod Length	0.404 - 0.414 in (10.275 - 10.525 mm)	
Clevis Length	Approx 4.9 in (125 mm)	
Parking Brake Control		
Number of Notches	6 - 8 [Under force of 44 lb (20 kg)]	
ABS Wheel Sensor		
Clearance Frt	0.011 - 0.029 in (0.275 - 0.75 mm)	
Clearance Rr	0.014 - 0.025 in (0.35 - 0.625 mm)	
Resistance	0.8 - 1.2 kΩ	
Wheel Lug Nut	72-87 ft lb (10-12 kg-m)	



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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

Mark Actual
to Confirm

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:

Type	55D23R
Capacity	12 V / 60 AH
Cold cranking current	356
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 fully discharged battery.

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

Starter:

Type	M1T72781A MITSUBISHI Gear Reduction type
No-load current	50 - 75
No-load RPM	3,000 - 4,000

Alternator:

Type	LR180-729 HITACHI
Nominal Rating	12 V / 80 A
Regulated Output Voltage	14.1 - 14.7
Output current	More Than 23 A / 1,300 rpm
(with 13.5 V applied)	More Than 63 A / 2,500 rpm More Than 77 A / 5,000 rpm

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

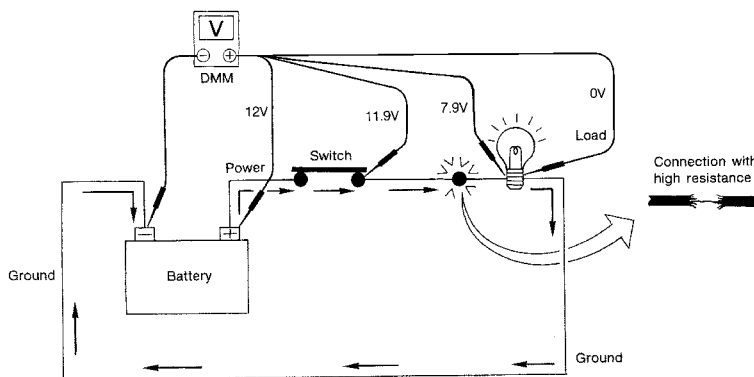
Bulb Specifications:

Item	Wattage (12V).
Headlamp High/Low	65/35
Fog Lamp	55
Front Turn signal	27
Parking Lamp	8
Front Side Marker	3.8
Rear Side Marker	3.8
Rear Turn Signal	27
Stop/Tail Lamp	27/8
Center Stop Lamp	18
Back-up Lamp	27
License Plate Lamp	5
Spot Lamp	8
Interior Lamp	10
Step Lamp	3

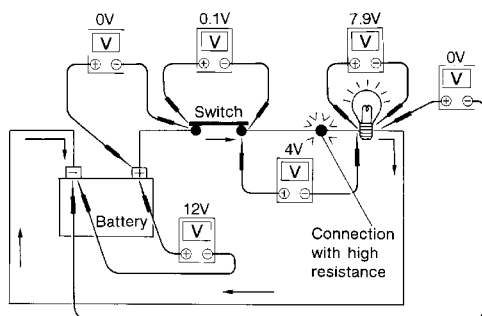
How to perform voltage drop test: See Illustrations

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



QUICK REFERENCE DESCRIPTION



240SX 1994

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.

