

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer NISSAN MOTOR CO., LTD.	Vehicle Line NISSAN SENTRA	
Mailing Address 560-2, OKATSUKOKU, ATSUGI-SHI KANAGAWA, 243-01, JAPAN	Issued '90-10	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.



Motor Vehicle Manufacturers Association
of the United States, Inc.

Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **NISSAN SENTRA**
 Model Year **'91** Issued **'90-10** Revised (+)

Vehicle Origin

Design & development (company)	NISSAN MOTOR CO. LTD.
Where built (country)	JAPAN/U.S.A
Authorized U.S. sales marketing representative	NISSAN MOTOR CORPORATION in U.S.A

Vehicle Models

Model Description & Drive (FWD RWD AWD 4WD)*			Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/hwy)
FED	2SED	2WD	GA16DE	E	AAYALBTB13EUA	5 (2/3)	29/37
					AAYALBDB13EUA		28/33
				XE/SE	AAYALFFB13EUA		29/39
					AAYALFAB13EUA		27/36
			SR20DE	SE-R	ABYALHFB13EUA		24/32
					ABYALHAB13EUA		23/30
	4SED	2WD	GA16DE	E	BAYALBFB13EUA		29/39
					BAYALBDB13EUA		28/33
				XE	BAYALFFB13EUA		29/39
					BAYALFAB13EUA		27/36
				GXE	BAYALGFB13EUA		29/39
					BAYALGAB13EUA		27/36
CAL	2SED	2WD	GA16DE	E	AAYALBTB13EVA		29/37
					AAYALBDB13EVA		28/33
				XE/SE	AAYALFFB13EVA		29/39
					AAYALFAB13EVA		27/36
			SR20DE	SE-R	ABYALHFB13EVA		24/32
					ABYALHAB13EVA		23/30
	4SED	2WD	GA16DE	E	BAYALBFB13EVA		29/39
					BAYALBDB13EVA		28/33
				XE	BAYALFFB13EVA		29/39
					BAYALFAB13EVA		27/36
				GXE	BAYALGFB13EVA		29/39
					BAYALGAB13EVA		27/36

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake horsepower) and Net Torque corrected to 77°F/25°C and 29.61 in. Hg/100 kPa atmospheric pressure.

		A	B	C	D
E N G I N E	Engine Code	GA16DE	GA16DE	GA16DE	GA16DE
	Displacement Liters (in³)	1.597	1.597	1.597	1.597
	Induction system (Fl. Carb. etc.)	N.A.	N.A.	N.A.	N.A.
	Compression ratio	9.5	9.5	9.5	9.5
	SAE Net at RPM	80.9/6000 (110/6000)	80.9/6000 (110/6000)	80.9/6000 (110/6000)	80.9/6000 (110/6000)
		147.1/4000 (108/4000)	147.1/4000 (108/4000)	147.1/4000 (108/4000)	147.1/4000 (108/4000)
	Exhaust single, dual	SINGLE	SINGLE	SINGLE	SINGLE
T R A N S	Transmission/ Transaxle	RN4F31A	RS5F31A	RL3F01A	RL4F03A
	Axle Ratio (std. first)	3.550	3.895	3.476	3.827

		E	F
E N G I N E	Engine Code	SR20DE	SR20DE
	Displacement Liters (in³)	1.998	1.998
	Induction system (Fl. Carb. etc.)	N.A.	N.A.
	Compression ratio	9.5	9.5
	SAE Net at RPM	103.0/6400 (140/6400)	103.0/6400 (140/6400)
		179.0/4800 (132/4800)	179.0/4800 (132/4800)
	Exhaust single, dual	dual	dual
T R A N S	Transmission/ Transaxle	RS5F32V	RL4F03V
	Axle Ratio (std. first)	4.176	3.827

Series Availability

Power Teams (A-B-C-D)

Model	Code	Standard	Optional
AAYALBTB13EUA		A	
AAYALBDB13EUA		C	
AAYALFFB13EUA		B	
AAYALFAB13EUA		D	
ABYALHFB13EUA		E	
ABYALHAB13EUA		F	
BAYALBFB13EUA		B	
BAYALBDB13EUA		C	
BAYALFFB13EUA		B	
BAYALFAB13EUA		D	
BAYALGFB13EUA		B	
BAYALGAB13EUA		D	
AAYALBTB13EVA		A	
AAYALBDB13EVA		C	
AAYALFFB13EVA		B	
AAYALFAB13EVA		D	
ABYALHFB13EVA		E	
ABYALHAB13EVA		F	
BAYALBFB13EVA		B	
BAYALBDB13EVA		C	
BAYALFFB13EVA		B	
BAYALFAB13EVA		D	
BAYALGFB13EVA		B	
BAYALGAB13EVA		D	

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued 90-10 Revised (•) _____

METRIC (U.S. Customary)

Engine Description
Engine Code

GA16DE

SR20DE

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, conc, ohv, hemi, wedge, pre-camber, etc.)

INLINE
FRONT
TRANSVERSE

Manufacturer	AICHI, NMMC	NISSAN.
No. of cylinders	4	
Bore	76 mm	86 mm
Stroke	88 mm	86 mm
Bore spacing (C.L. to C.L.)	85.5 mm	97 mm
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron 35.4 kg	Aluminum Alloy 26 kg
Cylinder block deck height	214 mm	211.3 mm
Cylinder block length	369 mm	440.5 mm
Deck clearance (minimum) (above or below block)	0 mm	
Cylinder head material & mass kg (lbs.)	Aluminum Alloy 10.6 kg	Aluminum Alloy 15 kg
Cylinder head volume cm ³ (inches ³)	32.0 cm ³	46 cm ³
Cylinder liner material	Cast Iron	
Head gasket thickness (compressed)	1.2 mm	
Minimum combustion chamber total volume cm ³ (inches ³)	47.0 cm ³	59 cm ³
Cyl. no. system	L. Bank	1-2-3-4
(front to rear)*	R. Bank	N/A
Firing order		1-3-4-2
Intake manifold material & mass kg (lbs.)**	Aluminum Alloy 6.0 kg	Aluminum Alloy 3.5 kg
Exhaust manifold material & mass kg (lbs.)**	CAST IRON 4.4 kg	CAST IRON 5.2 kg
Knock sensor (yes / no)	No	Yes
Fuel required unleaded, diesel, etc.	UNLEADED	
Fuel antiknock index (R - M) - 2	NO LESS THAN 87	
Quantity	ATTACHMENT*	
Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	RH MOUNT:HYDROELASTIC/OTHER MOUNTS:ELASTOMERIC	
Added isolation (sub-frame, crossmember, etc.)	CENTER MEMBER	

Total dressed engine mass (wt) dry***

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy 236 g	Aluminum Alloy 362 g
--	----------------------	----------------------

Engine - Camshaft

Location	Cylinder HEAD	
Material & mass kg (weight, lbs.)	CAST IRON INT 1.8 kg	Exh 1.7 kg CAST IRON 2 kg
Drive type	Chain / belt	CHAIN
Width / pitch	15 mm/9.525 mm	14 mm/9.5 mm

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

M/T	A/T
MAIN MOUNTS	MAIN MOUNTS
3	3
BUFFER ROD	
1	

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Engine Description
Engine Code

GA16DE

SR20DE

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	N.A.	Std.
Valves	Number intake/exhaust: 2/2	
	Head O.D. intake/exhaust: 30 mm/24 mm	34.2 mm/30.2 mm

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)	FORGED STEEL 0.462 kg	VANADIWN STEEL 0.59 kg
Length (axes C/L to C/L)	140.5 mm	136.3 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)	FORGED STEEL 12.8 kg	VANADIWN STEEL 17.0 kg
End thrust taken by bearing (no.)	No. 3	
Length & number of main bearings	465.5 mm, 5	506.3 mm, 5
Seal (material, one, two piece design, etc.)	Front: Acrylic Rubber One Piece Rear: Silicon Rubber One Piece	Fluorine Rubber One Piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	294.2 kpa at 2000 rpm	314-392 kpa at 3200 rpm
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of oil case, less filter-refill-L (qt.)	3.2	3.7

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current grain at 0°F	
Injector nozzle	Type: Opening pressure kPa (psi):
Pre-chamber design	
Fuel injection pump	Manufacturer: Type:
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine - Intake System

Turbo charger - manufacturer	N.A.
Super charger - manufacturer	N.A.
Intercooler	N.A.

* Finished State

MVMA Specifications

Vehicle Line NISSAN SENTRA
 Model Year '91 Issued '90-10 Revised (+) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

GA16DE			SR20DE	
M/T	3 A/T	4 A/T	M/T	4 A/T

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Std. (Reserve Tank)				
Coolant fill location (rad., bottle)	Bottle				
Radiator cap relief valve pressure *Pa (psi)	90				
Circulation thermostat	Type (choke, bypass)	BYPASS			
	Starts to open at °C (°F)	76.5°C			
Water pump	Type (centrifugal, other)	CENTRIFUGAL			
	GPM 1000 pump rpm	N.A.			
	Number of pumps	1			
	Drive (V-belt, other)	V-BELT			
	Bearing type	BALL			
	Impeller material	COLD ROLLED CARBON STEEL			
	Housing material	Aluminum Alloy			
By-pass recirculation type (inter., ext.)	INTERNAL				
Cooling system capacity	With heater - L(kt.)	5.3	5.5	5.8	6.0
	With air conditioner - L(kt.)	5.3	5.5	5.8	6.0
	Opt. equipment specify - L(kt.)	YES			
Water jackets full length of cyl. (yes, no)	YES			NO	
Water all around cylinder (yes, no)	YES				
Water jackets open at head face (yes, no)					

Radiator core	Std., A/C, HD	Std. A/C			
	Type (cross-flow, etc.)	Vertical Flow			
	Construction (fin & tube mechanical, braze, etc.)	TUBE AND CORRUGATED FIN BRAZED			
	Material, mass kg (wt., lbs.)	1.9	2.5	2.5	2.2 2.5
	Width	647mm	647mm	647mm	647mm 647mm
	Height	320mm	320mm	320mm	320mm 320mm
	Thickness	16mm	16mm	16mm	16mm 16mm
Radiator end tank material	Fins per inch	13	17	23	23 23

Fan	Radiator end tank material	Resin			
	Std., elec., opt.	Elect.			
	Number of blades & type (flex, solid, material)	N.A.			
	Diameter & projected width	300			
	Ratio (fan to crankshaft rev.)	N.A.			
	Fan cutout type	N.A.			
	Drive type (direct, remote)	N.A.			
	RPM at idle (elec.)	1800	High speed 2250 Low speed 1600	1800	High speed 2200 Low speed 1750
	Motor rating (wattage/elec.)	50W	110W	70W	160W
	Motor switch (type & location/elec.)	Electrical-ECCS Control			
	Switch point (temp., pressure/elec.)	*1			
	Fan shroud (material)	Resin			

*1 Electrical-ECCS Control			
91°C at idle	91°C at idle (Low)	100°C at idle	95°C at idle (Low)

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Engine Description
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GA16DE

SR20DE

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.	ELECTRIC FUEL INJECTION	
Manufacturer	NISSAN	
Carburetor no. of barrels	N.A.	
Idle A/F mix.	Present and Sealed at Factor	
Fuel injection	Point of injection (no.)	4
	Constant, pulse, flow	PULSE
	Control (electronic, mech.)	ELECTRONIC
	System pressure kPa (psi)	299.2 kpa
Idle spd -rpm (spec. neutral or drive and propane if used)	Manual	650 rpm 800 rpm
	Automatic	800 rpm (N RANGE)
Intake manifold heat control (exhaust or water thermostatic or fixed)	NO	FIXED
Air cleaner type	Paper Element	
Fuel filter (type/location)	Paper Element/Engine Room	
Fuel pump	Type (elec. or mech.)	ELECTRICAL
	Location (eng., tank)	IN TANK
	Pressure range kPa (psi)	299 kpa
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	90 l/hr at 299 kpa 70 l/hr at 299 kpa

Fuel Tank

Capacity refill L (gallons)		50(13.2)
Location (describe)		Under Rear Floor
Attachment		Fastend with bolts
Material & Mass kg (weight lbs.)		Carbon Steel TIn-Lead Coat, 11
Filler pipe	Location & material	At the Left Rear Fender, Carbon Steel
	Connection to tank	Rubber Hose
Fuel line (material)		Carbon Steel & Rubber
Fuel hose (material)		Rubber
Return line (material)		Carbon Steel & Rubber
Vapor line (material)		Carbon STEel & Rubber
Extended range tank	Opt., n.a.	
	Capacity L (gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity L (gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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METRIC (U.S. Customary)

Engine Description
Engine Code

GA16DE

SR20DE

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)	TWC/O2S/EGR/SMPI	EGI/EGR/PAIR/TWC/O2S
	Air Injection	Pump or pulse	N.A.
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	N.A.
		Point of entry	N.A.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	CONTROLLED FLOW
		Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	EXHAUST MANIFOLD INTAKE MANIFOLD
	Catalytic Converter	Type	THREE WAY
		Number of	1
		Location(s)	UNDER FLOOR
		Volume L (in ³)	1.7
		Substrate type	MONOLITH
		Noble metal type	
		Noble metal concentration (g/cm ²)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)	INDUCTION SYSTEM	
	Energy source (manifold vacuum, carburetor, other)	MANIFOLD VACUUM	
	Discharges to (intake manifold, other)	INTAKE MANIFOLD	
	Air inlet (breather cap, other)	AIR DUCT	AIR CLEANER
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CARBON CANISTER
		Carburetor	N.A.
Electronic system	Vapor storage provision	CARBON CANISTER	
	Closed loop (yes/no)	YES	
	Open loop (yes/no)	YES	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)	SINGLE WITH CONVERTER		DUAL WITH CONVERTER
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs)	MUFFLER2 1.EXPANSION WITH GLASS WOOL * 2.EXPANSION AND REVERSE FLOW WITH RESONATOR		
Resonator no. & type	NONE		NONE
Exhaust pipe	Branch o.d., wall thickness	NONE	
	Main o.d., wall thickness	ø42.7 FRONT HALF: t1.5 REAR HALF: t1.2	ø42.7x2 t1.5 ø48.6 FRONT HALF: t1.5 REAR HALF: t1.2
	Material & Mass kg (weight lbs)	STAINLESS STEEL TUBE 3.0kg	STAINLESS STEEL TUBE 4.2kg
Inter-mediate pipe	o.d. & wall thickness	ø42.7 FRONT HALF: t1.5 REAR HALF: t1.2	ø48.6 FRONT HALF: t1.5 REAR HALF: t1.2
	Material & Mass kg (weight lbs)	Al COAT STEEL TUBE 3.6kg	Al COAT STEEL TUBE 3.2kg
Tail pipe	o.d. & wall thickness	ø38.1 t1.2	ø48.6 t1.2
	Material & Mass kg (weight lbs)	STAINLESS STEEL TUBE 0.3kg	STAINLESS STEEL TUBE 0.2kg
* MATERIAL: STAINLESS STEEL & Al COAT STEEL			
MASS:			
		GA16DE	SR20DE
1		1.7kg	1.8kg
2		3.1kg	5.1kg

MVMA Specifications

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Model Year 191 Issued 190-10 Revised ()

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Engine Description
Engine Code

GA16DE

SR20DE

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer country)	N.A.	
Manual 4-speed (manufacturer country)	Std.	N.A.
Manual 5-speed (manufacturer country)	Std.	
Automatic (manufacturer country)	Std.	N.A.
Automatic overdrive (manufacturer country)	Std.	

Manual Transmission/Transaxle

Number of forward speeds		4	5	5
Gear ratios	1st	3.333	3.333	3.063
	2nd	1.955	1.955	1.826
	3rd	1.286	1.286	1.286
	4th	0.902	0.926	0.975
	5th	---	0.733	0.756
	Reverse	3.417	3.417	3.153
Synchronous meshing (specify gears)		1,2,3,4	1,2,3,4,5	1,2,3,4,5
Shift lever location		Floor Mounted		
Trans. case mat'l. & mass kg (lbs)*		Aluminum Alloy	Aluminum Alloy	Aluminum Alloy 41.2
Lubricant	Capacity L (pt.)	2.8	2.9	3.5-3.7
	Type recommended	NISSAN MPG SPECIAL 80W-90		

Clutch (Manual Transmission)

Clutch manufacturer		ATSUGI		
Clutch type (dry, wet; single, multiple disc)		Dry Single Disc		
Linkage (hydraulic, cable, rod, lever, other)		Cable		
Max. pedal effort (nom. spring load) N (lbs)	Depressed			
	Released			
Assist (spring, power/percent, nominal)				
Type pressure plate springs		Diaphragm		
Total spring load (nominal) N (lbs)		390 kg		450 kg
Clutch facing	Facing mfg. & material coding	HITACHI HN6322		
	Facing material & construction	Spiral Wound Non Asbestos		
	Rivets per facing	16 V		
	Outside x inside dia. (nominal)	190 x 132		215 x 140
	Total eff. area cm ² (in. ²)	147 cm ²		209 cm ²
	Thickness (pressure plate side/ty wheel side)	3.5/3.5		
	Rivet depth (pressure plate side/ty wheel side)	1.3-1.8/1.3-1.8		
	Engagement cushion method	Flat Wave Springs		
Release bearing type & method lub.		Ball Bearing Sealed Type		
Torsional damping method, springs, hysteresis		RUBBERS	Coil Springs and Friction Washers	

* Includes shift linkage, lubricant, and clutch housing, if other specify.

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '01 Issued '90-10 Revised (•) _____

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Engine Description
Engine Code

GA16DE

SR20DE

Automatic Transmission/Transaxle

Trace Name	NISSAN MATIC (RL3F01A)	NISSAN MATIC (RL4F03A)	NISSAN MATIC (RL4F03V)
Type and special features (describe)	Lock Up Torque Converter With Automatically Operated Planetary Gear		
Gear selector	Location (column, floor, other)	Floor Mounted	
	Ltr. No. designation (e.g. PRND2*)	P.R.N.D.2.1	
	Shift interlock (yes, no, describe)	YES	
Gear ratios	1st	2.826	2.861
	2nd	1.543	1.562
	3rd	1.000	
	4th	---	0.697
	Reverse	2.364	2.310
Max. upshift speed - drive range km/h (mph)	101	150	162
Max. kickdown speed - drive range km/h (mph)	95	153	159
Min. overdrive speed km/h (mph)		40	41
Torque converter	Number of elements	3	
	Max. ratio at stall	2.3:1	2.6:1
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	236	
	Capacity factor "K"		
Lubricant	Capacity refill L (qt.)	6.3	7
	Type recommended	Dexron automatic transmission fluid NISSAN MATIC FLUID "D"	
Oil cooler (std., opt., N.A., internal, external, air, liquid)	Std.		
Transmission mass kg (lbs) & case material**	Aluminum Alloy 61.9	Aluminum Alloy 62	Aluminum Alloy 75

All Wheel / 4 Wheel Drive

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)	
Transfer case	Manufacturer and model
	Type and location
Low-range gear ratio	
System disconnect (describe)	
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)
	Torque split (%) front/rear

* Input speed - / torque

** Dry weight including torque converter. If other, specify.

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Engine Description
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SR20DE

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Effective final drive ratio (or overall top gear ratio)

Transfer ratio and method (chain, gear, etc.)

Front drive unit

Ring gear o.d.

No. of teeth

Pinion

Ring gear

Front Drive Unit

Description (integral to trans., etc.)

Limited slip differential (type)

Drive pinion

Type

Offset

No. of differential pinions

Pinion / differential

Adjustment (shim, etc.)

Bearing adjustment

Driving wheel bearing (type)

Lubricant

Capacity L (pt.)

Type recommended

Axle Shafts - Front Wheel Drive

Manufacturer and number used

2

Type (straight, solid bar, tubular, etc.)

Left

Solid Bar

Right

Solid Bar

Outer diam. x length* x wall thickness

Manual transaxle

Left

21 x 361

23 x 341

Right

45 x 647 x 3.2

24 x 391

Automatic transaxle

Left

21 x 361

23 x 341

Right

45 x 647 x 3.2

24 x 391

Optional transaxle

Left

Right

Slip yoke

Type

Number of teeth

Spine o.d.

Universal joints

Make and msg. no.

Inner

NISSAN

Outer

NISSAN

Number used

2 Inner & 2 Outer

Type, size, plunge

Inner

TS79C

DS86 (RH), TS86 (LH)

Outer

ZF90

BF86

Attach (u-bolt, clamp, etc.)

Bearing

Type (plain, anti-friction)

Lubrication (grease, prepack)

Drive taken through (torque tube, arms or springs)

Torque taken through (torque tube, arms or springs)

* Centerline to centerline of universal joints, or to centerline of attachment.

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued 100-10 Revised (+) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2WD	
GALODE	
MS	PS SR20DE

Suspension - General Including Electronic Controls

Car leveling	Standard optional not avail.	N.A.
	Manual automatic control	N.A.
	Type (air hydraulic)	N.A.
	Primary assist spring	-
	Rear only 4 wheel leveling	-
	Single dual rate spring	-
	Single dual ride heights	-
	Provision for latching	-
Shock absorber damping controls	Standard option not avail.	-
	Manual automatic control	-
	Number of damping rates	-
	Type of actuation (manual/ electric motor/ air, etc.)	-
	s Lateral acceleration	-
	n Deceleration	-
	o Acceleration	-
Shock absorber (front & rear)	s Road surface	-
	Type	Hydraulic
	Make	Atsugi, Kayaba, Tokio and Monroe
	Piston diameter	ø25
	Rod diameter	ø18

Suspension - Front

Type and description		Independent Strut Type	
Travel*	Full bounce	75 mm	
	Full rebound	85.5 mm	
Spring	Type (coil, leaf, other & material)	Coil, Spring Steel	
	Insulators (type & material)	Rubber Seat	
	Size (coil design height & i.d.)	*1 (Attachment)	
	Spring rate N/mm (lb./in.)	19.6 N/mm	21.6 N/mm
	Rate at wheel N/mm (lb./in.)	18.6 N/mm	20.5 N/mm
Stabilizer	Type (link, linkless, frameless)	N.A.	LINK
	Material & bar diameter	N.A.	Carbon Steel, ø28.6 Carbon Steel, ø28

Suspension - Rear

Type and description		Independent Strut Type	
Travel*	Full bounce	105 mm	
	Full rebound	95 mm	
Spring	Type (coil, leaf, other & material)	Coil, Spring Steel	
	Size (length x width, coil design height & i.d.)	*2 (Attachment)	
	Spring rate N/mm (lb./in.)	17.5 N/mm	15.7 N/mm 19.6 N/mm
	Rate at wheel N/mm (lb./in.)	17.4 N/mm	15.5 N/mm 18.4 N/mm
	Insulators (type & material)	Rubber Seat	
	If leaf	No. of leaves	N.A.
		Shackle (comp. or tens.)	N.A.
Stabilizer	Type (link, linkless, frameless)	N.A.	LINK
	Material & bar diameter	N.A.	Carbon Steel, ø10 Carbon Steel, ø15
Track bar (type)		N.A.	

* Define load condition:

*1

GA16DE			SR20DE	
4M/T & 4Door, E, 5M/T	3A/T, 5M/T EXCEPT 4Door, E, 5M/T	4A/T	5M/T	4A/T
365 x 118	375 x 118	385 x 118	360 x 118	370 x 118

*2

GA16DE			SR20DE
E	XE, SE	GXE	
321 x 119	341 x 119	351 x 119	318.5 x 118

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised (+)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

GA16DE		SR20DE
E	XE, SE, GXE	

Brakes - Service

Description

(): With ABS

Manufacturer and brake type (std., opt., n.a.)		Front (disc or drum)	Disc : Std	Disc : Std
		Rear (disc or drum)	Drum : Std, Disc : opt	Disc : Std
Valving type (proportion, delay, metering, other)			Front : Std, Rear : Std	
Power brake (std., opt., n.a.)			Std	
Booster type (remote, integral, vac., hvc., etc.)			Integral	
Vacuum	Source (inline, pump, etc.)		Inline	
	Reservoir (volume in l)		110.3(147.1)	110.4(147.1) 147.1
	Pump type (elec, gear driven, belt driven)		N.A.	
Traction control	Operational speed range			
	Type engine intervention (electronic, mech.)			
Anti-lock device	Front / rear (std., opt., n.a.)		(OPT)	
	Manufacturer		(NIPPON ABS. LTD.)	
	Type (electronic, mech.)		(Electronic)	
	Number sensors or circuits		(4 Sensor)	
	Number anti-lock hydraulic circuits		(2 channel)	
	Integral or add-on system		(Add-on System)	
	Yaw control (yes, no)		(No)	
Hydraulic power source (elec., vac, mtr., pow. strg.)			(Electronic)	
Effective area cm ² (in. ²)*			160/204(100)	152/100
Gross lining area cm ² (in. ²)(F/R)			160/204(100)	152/100
Swept area cm ² (in. ²)(F/R)			1054/1339(740)	1098/740
Rotor	Outer working diameter	F/R	238/N.A.(232)	248/232
	Inner working diameter	F/R	152/N.A.(174)	163/174
	Thickness	F/R	18/N.A.(7)	18/7
	Material & type (vented/solid)	F/R	Cast iron vented/N.A. (cast iron solid)	Cast iron vented/(cast iron solid)
Drum	Diameter & width	F/R	N.A./180(N.A.)	N.A./N.A.
	Type and material	F/R	N.A./Cast iron(N.A.)	N.A./N.A.
Wheel cylinder bore			48.1/15.8(30.1)	48.1/30.1
Master cylinder Bore/stroke		F/R	19.0(22.2)	20.6(22.2) 22.2
Pedal arc ratio			3.8	
Line pressure at 445 N(100 lb.) pedal load kPa (psi)		1	10725	11701 12727
Lining clearance		F/R	NO MAJOR ADJUSTMENT REQUIRED/0	3-0.5(PRITSEC)ADJUSTMENT REQUIRED (NO MAJOR ADJUSTMENT REQUIRED)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	BONDED	BONDED
		Rivet size	N.A.	N.A.
		Manufacturer	HITACHI	HITACHI
		Lining code*****	HITACHI HP12H FE	HITACHI HP12 FE
		Material	MOLDED SEMI METALIC	MOLDED SEMI METALIC
		**** Primary or out-board	106 x 43 x 10	97.5 x 42.5 x 10
		Size Secondary or in-board	106 x 43 x 10	97.5 x 42.5 x 10
		Shoe thickness (no lining)	6.0	6.0
	Rear wheel	Bonded or riveted (rivets/seg.)	BONDED	BONDED
		Manufacturer	AKEBONO	AKEBONO
		Lining code*****	AKEBONO A901 EF (AKEBONO AP52 FF)	AKEBONO AP52 FF
		Material	MOLDED NON ASBESTOS	MOLDED NON ASBESTOS
		**** Primary or out-board	172.8x30x4.0(94x29x10)	94 x 29 x 10
		Size Secondary or in-board	172.8x30x4.0(94x29x10)	94 x 29 x 10
		Shoe thickness (no lining)	1.6(6.0)	6.0

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

**** Size for drum brakes includes length x width x thickness. ***** Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised ()

METRIC (U.S. Customary)

Body Type And/OR
Engine Displacement

GA16DE			SR20DE
E	XE, SE	GXE	SE-R

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80SR13 (B)	P175/70R1382S(B)	P185/60R14 82H(B)
	Type (bias, radial, steel, nylon, etc.)		RADIAL		
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	230(33)	220(32)	
		Rear kPa (psi)	200(29)	200(29)	
	Rev. mile-at 70 km/h (45 mph)		921	925	921
Wheels	Type & material		Disc Stamped Steel		
	Rim (size & flange type)		13 x 5J		14 x 5 1/2JJ
	Wheel offset		40		45
	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	100		
		Number & size	M 12 x 1.25 4Hex Nuts		
Spare	Tire and wheel		T115170D14 14 x 4T		T135170D15 15 x 4T
	Storage position & location (describe)				

Tires And Wheels (Optional)

Tire size (load range, ply)		P175/70R13 (B)	N.A.
Type (bias, radial, steel, nylon, etc.)		RADIAL	N.A.
Wheel (type & material)		N.A.	Aluminum Casting
Rim (size, flange type and offset)		N.A.	13 x 5J 14 x 5 1/2JJ
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)			

Brakes - Parking

Type of control		Center Lever Hand Operated
Location of control		Between Front Seats
Operates on		Rear WReels
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	N.A.
	Lining size (length x width x thickness)	N.A.

MVMA Specifications

Vehicle Line

NISSAN SENTRA

Model Year

'91

Issued

'90-10

Revised (•)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

GA16DE E

GA16DE XE/SE/GXE, RS20DE

Steering

Manual (std., opt., n.a.)		Std.		N.A.	
Power (std., opt., n.a.)		Opt.		Std.	
Adjustable steering wheel/column (tilt, telescope, other)	Type	TILT			
	Manufacturer	NASTECH			
	(std., opt., n.a.)	Std. GREAD E: OPT			
Wheel diameter** (W9) SAE J1100	Manual	ø380			
	Power	ø380			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)	4.6 *1	5.2 *2	
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Scrib Radius*					
Manual	Gear	Type	Rack & Pinion		
		Manufacturer	N.S.K		
		Ratios	Gear	∞	
	Overall	20.2			
	No. wheel turns (stop to stop)	MS: 4.21			
Power	Type (coaxial, elec., hvd., etc.)		Integral Rear & Power Piston with Vane Type Pump		
	Manufacturer		NISSAN		
	Gear	Type	RACK & PINION		
		Ratios	Gear	∞	
		Overall	14.7 *1 15.2 *2		
	Pump (drive)		Belt from Crank-Shaft pulley		
	No. wheel turns (stop to stop)		PS: 3.07 *1 2.74 *2		
Linkage	Type	PARALLELOGRAM			
	Location (front or rear of wheels, other)		REAR		
	Tie rods (one or two)		TWO		
	Inclination at camber (deg.)				
Steering axis	Bearings (type)	Upper			
		Lower			
		Thrust			
Steering spindle/knuckle & joint type					

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

** See Page 22.

*1: 155SR13, 175/70R13

*2: 185/60R14

⊗ MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised (+) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

Exc. E

E only

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1°50'±45'
		Camber (deg.)	-0°15'±45'
		Toe-in outside track-mm (in.)	2.0±1 (mm)
	Service reset*	Caster (deg.)	1°50'±45'
		Camber (deg.)	-0°15'±45'
		Toe-in - mm (in.)	2.0± 1 (mm)
	Periodic M.V. inspection	Caster (deg.)	1°50'±45'
		Camber (deg.)	-0°15'±45'
		Toe-in - mm (in.)	2.0± 1 (mm)
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1°10'±45'
		Toe-in outside track-mm (in.)	1.0±2 (mm)
	Service reset*	Camber (deg.)	-1°10'±45'
		Toe-in - mm (in.)	1.0±2 (mm)
	Periodic M.V. inspection	Camber (deg.)	-1°10'±45'
		Toe-in - mm (in.)	1.0±2 (mm)

* Indicates pre-set, adjustable, trend set or other.

⊗ Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Dial with Paintor	
	Trip odometer (std., opt., n.a.)	Std	
Head-up display	Standard, optional, not available	Not available	
	Type	Secondary, opto-electronic	---
	Speedometer	Digital	---
	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	---
	Brightness control	Day / night mode, adjustable	---
EGR maintenance indicator		None	
Charge indicator	Type	Warning Light	
	Warning device (light, audible)	Light	
Temperature indicator	Type	Electric Gauge	
	Warning device (light, audible)	None	
Oil pressure indicator	Type	Warning Light	
	Warning device (light, audible)	Light	
Fuel indicator	Type	Electric Gauge, Warning Light	
	Warning device (light, audible)	Light	
Windshield wiper	Type (standard)	Electric 2 Speed Inter Mittent	Electric 2 Speed
	Type (optional)	NONE	
	Blade length	500 mm(LH)	475 mm(KH)
	Sweep area cm ² (in. ²)	6260 cm ²	
Windshield washer	Type (standard)	ELECTRIC	
	Type (optional)	N.A.	
	Fluid level indicator (light, audible)	Level gauge	
Rear window wiper, wiper/washer (std., opt., n.a.)		none	
Horn	Type	Vibrator	
	Number used	1	
Other			

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised ()

METRIC (U.S. Customary)

Engine Description
Engine Code

GA16DE

SR20DE

Electrical - Supply System

Battery	Manufacturer	SHIN-KOBE, YUASA, MATSUSHITA, NIPON-DENCHI, FURUKAWA	
	Model, std., (opt.)	55D23L (STD) 80D26R (SR eng COLD OPT)	
	Voltage	12 V	
	Amps at 0°F cold crank	356 (55D23L) 582 (80D26R)	
	Minutes-reserve capacity	99 (55D23L) 133 (80D26L)	
	Amps/hrs., 20 hr. rate	60 (55D23L) 68 (80D26L)	
	Location	ENG ROOM L/H Front	
Alternator	Manufacturer	HITACHI, MITSUBISHI	
	Rating (idle/max. rpm)	70A	80A
	Ratio (alt. crank/rev.)	2.42	2.21
	Output at idle (rpm, bank)	30A	35A
	Optional (type & rating)	N.A.	
Regulator	Type	IC REGULATOR	

Electrical - Starting System

Motor	Manufacturer	HITACHI, MITSUBISHI	MITSUBISHI
	Current drain _____ °C/°F	N.A.	
	Power rating kw (hp)	0.8kw (CAL. 2WD M/T) 1.2kw (OTHERS)	1.4kw
Motor drive	Engagement type	SOLENOID	
	Pinion engages (from front, rear)	M/T: REAR A/T: FRONT	REAR

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Std	
	Other (specify)	N.A.	
Coil	Manufacturer	HANSHIN	
	Model	SMC-1200	
	Current	Engine stopped - A	0A
		Engine idling - A	0.4A
Spark plug	Manufacturer	NGK	
	Model	BKR5E-11	PER6B-11
	Thread (mm)	14 mm	19 mm
	Tightening torque N.m (lb. ft)	20-29 N.m	19.6-29.4 N.m
	Gap	1.0-1.1 mm	1.1 mm
	Number per cylinder	1	
Distributor	Manufacturer	HITACHI/MITSUBISHI	
	Model	D4P86-05/T4T74271	D4P88-03/T2T42171

Electrical - Suppression

Locations & type	RESISTANCE TYPE SPARK PWG
------------------	---------------------------

MVMA Specifications

Vehicle Line NISSAN SENTRA
 Model Year '91 Issued '90-10 Revised (-) _____

METRIC (U.S. Customary)

Body Type

Body

Structure

Monocoque Body

Bumper system
front - rear

POLYPROPYLENE

Anti-corrosion treatment

Surface Treatment Steel Seat
 Anti corrosion Sealant
 Anti corrosion Wax

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)

Hood	Material & mass	Steel 14.2 kg
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	
	Type (counterbalance, other)	Torsion
	Internal release control (elec., mech., n.a.)	Mech
Hatch-back lid	Material & mass	
	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	N.A.
Tailgate	Material & mass	
	Type (drop, lift, door)	
	Internal release control (elec., mech., n.a.)	
Vent window control (crank, friction, pivot, power)	Front	---
	Rear	---
Window regulator type (cable, tape, flex drive, etc.)	Front	Cable
	Rear	Cable
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Urethane foam
	Rear	Urethane foam
	3rd seat	N.A.
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Spring + Urethane foam
	Rear	Urethane foam
	3rd seat	N.A.

MVMA Specifications

Vehicle Line NISSAN SENTRA

Model Year 1991

Issued 90-10

Revised (+)

METRIC (U.S. Customary)

Body Type

Restraint System

Seating Position		2SED	Left	4SED	2SED	Center	4SED	2SED	Right	4SED
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
		Second seat	std. 3point with (ELR) RETRACTOR		std. 2point		std. 3point with (ELR) RETRACTOR			
	Standard / optional	Third seat	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Passive	Type & description (air bag, motorized 2-point belt, fixed belt, knee bolster, manual lap belt)	First seat	3point fixed Belt	motorized 2point belt manual lap belt knee bolster	NONE	NONE	NONE	3point fixed Belt	motorized 2point belt manual lap belt knee bolster	
		Second seat	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
	Standard / optional	Third seat	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

Glass	SAE Ref. No.	
Windshield glass exposed surface area cm ² (in. ²)	S1	9390
Side glass exposed surface area cm ² (in. ²) - total 2-sides	S2	
Backlight glass exposed surface area cm ² (in. ²)	S3	7250
Total glass exposed surface area cm ² (in. ²)	S4	
Windshield glass (type)		Curved Laminated Plate
Side glass (type)		Curved Tempered Plate
Backlight glass (type)		Curved Tempered Plate

Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	halogen & replaceable bulb
Shape	styled type
Lo-beam type (2A1, 2B1, 2C1, etc.)	---
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	---
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	
---	--

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised (•) _____

METRIC (U.S. Customary)

Body Type

Convenience Equipment (standard, optional, n.a.)

Air conditioning (manual, auto, temp control)		MANUAL
Clock (digital, analog)		
Compass / thermometer		
Console (floor, overhead)		
Defroster, elec. backlight		
Electronic	Diagnostic monitor (integrated, individual)	NONE
	Instrument cluster (list instruments)	
	Keyless entry	NONE
	Tachometer (avg. spd., fuel)	NONE
	Voice alert (list items)	NONE
	Other	
Fuel door lock (remote, key, electric)		REMOTE (Std. except for E, Opt. for E)
Lamps	Auto head on / off delay, dimming	
	Cornering	NONE
	Courtesy (map, reading)	NONE
	Door lock, ignition	
	Engine compartment	
	Fog	NONE
	Glove compartment	
	Trunk	Std. (XE, SE, SER, GXE) NONE (E)
	Illuminated entry system (list lamps, activation)	
	Other	High Mount Stop Lamp (Std.)
Day / night (auto, man.)		MANUAL
Mirrors	L.H. (remote, power, heated)	E : Manual, XE, SE: Manual (Std.) Power (Opt), GXE : Power
	R.H. (convex, remote, power, heated)	Convex E : N.A., XE, SE: Manual (Std.) Power (Opt), GXE: Power
	Visor vanity (RH / LH, illuminated)	
Navigation system (describe)		NONE
Parking brake-auto release (warning light)		

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '01 issued '90-10 Revised (+) _____

METRIC (U.S. Customary)

Body Type

Convenience Equipment (standard, optional, n.a.)

Deck lid (release, pull down)		
Door locks (manual, automatic, describe system)		GXE GRADE: STD: Automatic OTHER: STD: Manual
Power equipment	Seats	2 - 4 - 5 way, etc.
		Reclining (R.H., L.H.)
		Memory (R.H., L.H., preset recline)
		Support (lumbar, hip, thigh, etc.)
		Heated (R.H., L.H., other)
Side windows		Std. (Power Window) GXE
Vent windows		
Rear windows		
Antenna (location, whip, w/ shield, power)		Front Fender Whip(OPT:+ Rear Glass)
Radio systems	Standard	NONE
	Optional	AM AM/FM MPX AM/FM MPX with Cassette
Speaker (number, location)		std:NONE,opt:4 speakers (Front:Door,Rear:RR Panel Shelf) 1 speaker(Door)
Roof: open air or fixed (flip-up, sliding, "T")		Sliding (opt)
Speed control device		opt
Speed warning device (light, buzzer, etc.)		
Tachometer (rpm)		
Telephone system (describe)		
Theft deterrent system		Steering Lock

Trailer Towing

Towing capable	Yes / No
Engine / transmission / axle	Std / Opt
Tow class (I, II, III)*	Std / Opt
Max. gross trailer wgt. (lbs.)	Std / Opt
Max. trailer tongue load (lbs.)	Std / Opt
Towing package available	Yes / No

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised (-)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	GA16DE	SR20DE
Width			
Tread (front)	W101	1445	1435
Tread (rear)	W102	1420	1410
Vehicle width	W103	1670	
Body width at Sq RP (front)	W117	1665	
Vehicle width (front doors open)	W120	1415	
Vehicle width (rear doors open)	W121	1325	
Turn-in angle (degrees)	W122	250	
Outside mirror width	W410		

Length

Wheelbase	L101	2430
Vehicle length	L103	4326.4
Overhang (front)	L104	876.7
Overhang (rear)	L105	1019.7
Upper structure length	L123	12587
Rear wheel C-L "X" coordinate	L127	2430

Height*

Passenger distribution (front/rear)	PD1.2.3	2/3
Trunk/cargo load		34 kg
Vehicle height	H101	1345 (C.W. 1373.7)
Cowl point to ground	H114	888
Deck point to ground	H138	928
Rocker panel-front to ground	H112	199.6
Rocker panel-rear to ground	H111	197.4
Windshield slope angle (degrees)	H122	
Backlight slope angle (degrees)	H121	

Ground Clearance*

Front bumper to ground	H102	230
Rear bumper to ground	H104	269
Bumper to ground front at curb mass (wt.)	H103	251
Bumper to ground rear at curb mass (wt.)	H105	303
Angle of approach (degrees)	H106	18.96°
Angle of departure (degrees)	H107	14.06°
Ramp breakover angle (degrees)	H147	13.34°
Axle differential to ground (front/rear)	H153	141.5
Min. running ground clearance	H156	135.5
Location of min. run. grd. clear.		CAT

* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight. Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified. All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

Vehicle Line **NISSAN SENTRA**

Model Year **'91**

Issued **'90-10**

Revised (-)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type

Front Compartment	SAE Ref. No.	
SgRP front, "X" coordinate	L31	1344
Effective head room	H61	977.0
Max. eff. leg room (accelerator)	L34	1060.5
SgRP to heel point	H30	246.3
SgRP to heel point	L53	839.4
Back angle (degrees)	L40	25°
Hip angle (degrees)	L42	95.08°
Knee angle (degrees)	L44	123.63°
Foot angle (degrees)	L46	88.61°
Design H-point front travel	L17	213.9
Normal driving & riding seat track trvl.	L23	213.9
Shoulder room	W3	1336.0
Hip room	W5	1270.2
Upper body opening to ground	H50	1237.2
Steering wheel maximum diameter*	W9	ø380
Steering wheel angle (degrees)	H18	24°
Accel. heel pt. to steer. whl. cntr	L11	425.0
Accel. heel pt. to steer. whl. cntr	H17	620.1
Undepressed floor covering thickness	H67	20.0

Rear Compartment

SgRP point coupe distance	L50	685.9
Effective head room	H63	927.1
Min. effective leg room	L51	796.9
SgRP (second to heel)	H31	303.0
Knee clearance	L48	0
Shoulder room	W4	133.5
Hip room	W6	1345
Upper body opening to ground	H51	1243.5
Back angle (degrees)	L41	25°
Hip angle (degrees)	L43	85.9°
Knee angle (degrees)	L45	85.99°
Foot angle (degrees)	L47	115.08°
Depressed floor covering thickness	H73	14

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	338 (11.743 cuft)
Liftover height	H195	892

Interior Volumes (EPA Classification)

Vehicle class		Sub Compact
Interior volume index (cu. ft.)**		95.5
Trunk / cargo index (cu. ft.)		11.7

* See page 14.

** Includes passenger and trunk / cargo index - see definition page 32.

All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line NISSAN SENTRA

Model Year '91 Issued '90-10 Revised (•)

Body Type

Station Wagon – Third Seat

SAE
Ref.
No.

Seat facing direction	SD1	
SqRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SqRP to heel point	H87	
Knee clearance	L87	
Back angle (degrees)	L88	
Hip angle (degrees)	L89	
Knee angle (degrees)	L90	
Foot angle (degrees)	L91	

Station Wagon – Cargo Space

Cargo length (open front)	L200	N.A.
Cargo length (open second)	L201	N.A.
Cargo length (closed front)	L202	N.A.
Cargo length (closed second)	L203	N.A.
Cargo length at belt (front)	L204	N.A.
Cargo length at belt (second)	L205	N.A.
Cargo width (wheelhouse)	W201	N.A.
Rear opening width at floor	W203	N.A.
Opening width at belt	W204	N.A.
Min. rear opening width above belt	W205	N.A.
Cargo height	H201	N.A.
Rear opening height	H202	N.A.
Tailgate to ground height	H250	N.A.
Front seat back to load floor height	H197	N.A.
Cargo volume index m ³ (ft. ³)	V2	N.A.
Hidden cargo volume index m ³ (ft. ³)	V4	N.A.
Cargo volume index-rear of 2-seat	V10	N.A.

Hatchback – Cargo Space

Cargo length at front seatback height	L208	N.A.
Cargo length at floor (front)	L209	N.A.
Cargo length at second seatback height	L210	N.A.
Cargo length at floor (second)	L211	N.A.
Front seatback to load floor height	H197	N.A.
Second seatback to load floor height	H198	N.A.
Cargo volume index m ³ (ft. ³)	V3	N.A.
Hidden cargo volume index m ³ (ft. ³)	V4	N.A.
Cargo volume index-rear of 2-seat	V11	N.A.

All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line NISSAN SENTRA
Model Year '91 Issued '90-10 Revised (+) _____

Body Type

Vehicle Fiducial Marks

Fiducial Mark
Number*

Define Coordinate Location

Front

Rear

Fiducial
Mark
Number

W21*

L54*

Front

H81*

H161*

H163*

W22*

L55*

Rear

H82*

H162*

H164*

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
All linear dimensions are in millimeters (inches) unless otherwise noted.

[illegible]

** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.
Refer to ETWC code legend below for test weight class.

Y	=	4000	Q	=	3000
Z	=	4250	R	=	3125
AA	=	4500	S	=	3250
BB	=	4750	T	=	3375
CC	=	5000	U	=	3500
DD	=	5250	V	=	3625
EE	=	5500	W	=	3750
FF	=	5750	X	=	3875
