

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer NISSAN MOTOR CO., LTD.	Vehicle Line NISSAN 300ZX	
Mailing Address 560-2, OKATSUKOKU, ATSUGI-SHI KANAGAWA 243-01, JAPAN	Issued '89-8	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.

METRIC (U.S. Customary)

Model Year '90

Issued '89-8

Revised (-)

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

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)
2 SEATER		RLZ32JU(GL)	2	40.8 kg (90 lbs)
		RLZ32JAU(GL)		
		KRLZ32JU(GL)		
		KRLZ32JAU(GL)		
		KRLZ32XU(GL)		
		KRLZ32XAU(GL)		
		RLZ32JV(GL)		
		RLZ32JAV(GL)		
		KRLZ32JV(GL)		
		KRLZ32JAV(GL)		
		KRLZ32XV(GLL)		
		KRLZ32XAV(GLL)		
		2 + 2 SEATER		
KRLGZ32JAU(GL)				
KRLGZ32XU(GLL)				
KRLGZ32XAU(GLL)				
KRLGZ32JV(GL)				
KRLGZ32JAV(GL)				
KRLGZ32XV(GLL)				
KRLGZ32XAV(GLL)				
2 SEATER		KRLZ32JSU(GL)	2	40.8 kg (90 lbs)
		KRLZ32JASU(GL)		
		KRLZ32XSU(GLL)		
		KRLZ32XASU(GLL)		
		KRLZ32JSV(GL)		
		KRLZ32JASV(GL)		
		KRLZ32XSV(GLL)		
KRLZ32XASV(GLL)				

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Model Year '90 Issued '89-8 Revised (•) _____

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
ENGINE	Engine Code		VG30DE	VG30DE	VG30DETT	VG30DETT
	Displacement Liters (in ³)		2.960	2.960	2.960	2.960
	Induction system (FI, Carb, etc.)		EFI	EFI	EFI	EFI
	Compression ratio		10.5	10.5	8.5	8.5
	SAE Net at RPM	Power kW (bhp)	166/6400	166/6400	224/6400	209/6400
		Torque N • m (lb. ft.)	198/4800	198/4800	283/3600	283/3600
	Exhaust single, dual		Dual	Dual	Dual	Dual
TRANS	Transmission/ Transaxle		RS5R30A	RE4R01A	RS5R30A	RE4R03A
	Axle Ratio (std. first)		4.083	4.083	3.692	3.692

[illegible]

Series Availability		Power Teams(A-B-C-D)	
Model	Code	Standard	Optional
RLZ32JU (GL)		A	-
RLZ32JAU (GL)		B	-
KRLZ32JU (GL)		A	-
KRLZ32JAU (GL)		B	-
KRLZ32XU (GL)		A	-
KRLZ32XAU (GLL)		B	-
RLZ32JV (GL)		A	-
RLZ32JAV (GL)		B	-
KRLZ32JV (GL)		A	-
KRLZ32JAV (GL)		B	-
KRLZ32XV (GLL)		A	-
KRLZ32XAV (GLL)		B	-
KRLGZ32JU (GL)		A	-
KRLGZ32JAU (GL)		B	-
KRLGZ32XU (GLL)		A	-
KRLGZ32XAU (GLL)		B	-
KRLGZ32JV (GL)		A	-
KRLGZ32JAV (GL)		B	-
KRLGZ32XV (GLL)		A	-
KRLGZ32XAV (GLL)		B	-
KRLZ32JSU (GL)		C	-
KRLZ32JASU (GL)		D	-
KRLZ32XSU (GLL)		C	-
KRLZ32XASU (GLL)		D	-
KRLZ32JSV (GL)		C	-
KRLZ32JASV (GL)		D	-
KRLZ32XSV (GLL)		C	-
KRLZ32XASV (GLL)		D	-

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METRIC (U.S. Customary)

Engine Description
Engine Code

VG30DE

VG30DETT

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	V6, 60° Front Longitudinal DOHC	
Manufacturer	NISSAN	
No. of cylinders	6	
Bore	87 mm	
Stroke	83 mm	
Bore spacing (C/L to C/L)	108 mm	
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron (55.5 kg)	
Cylinder block deck height	227.65 mm	
Cylinder block length	390 mm	
Deck clearance (minimum) (above or below block)	0.0 mm	
Cylinder head material & mass kg (lbs.)	Aluminum Alloy (RH: 12.7, LH: 13.3 kg)	
Cylinder head volume (cm³)	48.1 cm³	
Cylinder liner material	N.A.	
Head gasket thickness (compressed)	1.2 mm	
Minimum combustion chamber total volume (cm³)	52.0 cm³	69.7 cm³
Cyl. no. system (front to rear)*	L. Bank	2, 4, 6
	R. Bank	1, 3, 5
Firing order	1-2-3-4-5-6	
Intake manifold material & mass (kg (lbs.))**	Aluminum Alloy (3.0 kg)	
Exhaust manifold material & mass (kg (lbs.))**	Stainless Steel (RH: 5.1kg, LH: 5.0kg) Cast Iron (RH: 3.3kg, LH: 3.1kg)	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	No less than 91	
Engine mounts	Quantity	3
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	2 Hydroelastic 1 Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Rear Member
Total dressed engine mass (wt) dry***	220kg(M/T) 202kg(A/T)	247kg(M/T) 229kg(A/T)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only.	Aluminum Alloy 398g	Aluminum Alloy 380 g
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Engine - Camshaft

Location	Cylinder Head	
Material & mass kg (weight, lbs.)	Cast Iron (RH: 1.9 kg, LH: 2.1 kg)	
Drive type	Chain / belt	Belt
	Width / pitch	31.75 mm/ 8.000 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:

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Engine Description
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VG30DE

VG30DETT

Engine - Valve System

Hydraulic lifters (std., opt., NA)	Std.
Valves	Number intake / exhaust 2 / 2
	Head O.D. intake / exhaust 34 mm / 29.5 mm

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Steel 0.719 kg
Length (axes & to & mm)	154.15 mm

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Cast Iron 18.5 kg
End thrust taken by bearing (no.)	No. 4
Length & number of main bearings	502 mm 4
Seal (material, one, two piece design, etc.)	Front Acryl Rubber One Piece
	Rear Flouric Rubber + Acryl Rrbber One Piece

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	490 KPa at 2000 rpm	588 KPa at 2000 rpm
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)	4.3 L	

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type Opening pressure (kPa (psi))
Pre-chamber design	
Fuel in-jection 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.	GARETT TURBO INC.
Super charger - manufacturer	N.A.	N.A.
Intercooler	N.A.	Applicable

* Finished State

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Engine Description
 Engine Code

VG30DE	VG30DETT
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.
Coolant fill location (rad., bottle)		Rad.
Radiator cap relief valve pressure (kPa (psi))		1.2 $\pm$ 0.1 kg/cm ²
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 Integral Permanently Sealed
	Impeller material	Steel
Housing material		Aluminum Alloy
By-pass recirculation (type (inter., ext.))		External
Cooling system capacity	With heater - L(qt.)	10.0
	With air conditioner - L(qt.)	N.A.
	Opt. equipment (specify - L(qt.))	N.A.
Water jackets full length of cyl. (yes, no)		Yes
Water all around cylinder (yes, no)		Yes
Water jackets open at head face (yes, no)		No
Radiator core	Std., A/C, HD	Std.
	Type (cross-flow, etc.)	Vertical Flow Tube and Corrugated Fin Cross Flow and Corrugated Fin
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube : Aluminum
	Material, mass (kg (wgt., lbs.))	2.9 kg 3.1 kg
	Width	691 mm 500 mm
	Height	400 mm 460 mm
	Thickness	16 mm 25 mm
	Fins per inch	23.0 16.9
Radiator end tank material		Resin
Fan	Std., elec., opt.	Std.
	Number of blades & type (flex, solid, material)	7 Solid Type
	Diameter & projected width	450 mm
	Ratio (fan to crankshaft rev.)	1.25 1.35
	Fan cutout type	Temperature Controlled Hydraulic Coupling
	Drive type (direct, remote)	Belt Drive
	RPM at idle (elec.)	
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	
	Switch point (temp., pressure) (elec.)	
Fan shroud (material)		Resin

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VG30DE

VG30DETT

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

Induction type: carburetor, fuel injection system, etc.		Electronic Fuel Injection	
Manufacturer		NISSAN	
Carburetor no. of barrels		N.A.	
Idle A/F mix.		13.2	
Fuel injection	Point of injection (no.)	6	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure (kPa (psi))	299 + 3.9 KPa (Except Hot Restart Time)	
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	700	700
	Automatic	770	750
Intake manifold heat control (exhaust or water thermostatic or fixed)		N.A.	
Air cleaner type		Paper Element	
Fuel filter (type/location)		Paper Element / ENG Room	
Fuel pump	Type (elec. or mech.)	Elec.	
	Location (eng., tank)	In Tank	
	Pressure range (kPa (psi))	299 KPa	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	115L/hr at 299 KPa	195L/hr at 299 KPa

Fuel Tank

Capacity (refill L (gallons))		72L (19.0 gallons)	
Location (describe)		2 Seater; Under the Rear Floor & Front of Rear Axle 2+2; Under the Rear Floor	
Attachment		Band Support	
Material & Mass (kg (weight lbs.))		Tin-Lead Coat Steel 2 Seater; 12.1kg 2+2 Seater; 10.7kg	
Filler pipe	Location & material	Left Rear Fender, Steel	
	Connection to tank	Steel Flange	
Fuel line (material)		Steel	
Fuel hose (material)		Rubber	
Return line (material)		Steel	
Vapor line (material)		Steel	
Extended range tank	Opt., n.a.	N.A.	
	Capacity [L (gallons)]	N.A.	
	Location & material	N.A.	
	Attachment	N.A.	
Auxiliary tank	Opt., n.a.	N.A.	
	Capacity [L (gallons)]	N.A.	
	Location & material	N.A.	
	Attachment	N.A.	
	Selector switch or valve	N.A.	
Separate fill		N.A.	

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Engine Description
Engine Code

VG30DE				VG30DET	
2 SEATER		2+2 SEATER		2 SEATER	
5M	4A	5M	4A	5M	4A

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		SMPI/EGR/PAIR/TWC/02S		SMPI/EGR/PAIR/TWC/02S/TC	
	Air Injection	Pump or pulse	Pulse			
		Driven by	Exhausted Vacuum			
		Air distribution (head, manifold, etc.)	Exhaust Tube			
		Point of entry	In Wheel House			
	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	2		4	
		Location(s)	Under Floor		Engine Room&Under Floor	
		Volume (L (in ³))	M/T 1.5L A/T 1.3L		Pre Cat Right Side 0.4L Left Side 0.5L Main Cat 1.3L	
		Substrate type	Monolith			
		Noble metal type				
		Noble metal concentration (g/cm ³)				
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)		To Intake Manifold			
	Air inlet (breather cap, other)		Air duct			
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)		No			

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Dual with Twin Converter				
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		*1				
Resonator no. & type		Al Coat Steel 20.1kg Stainless Steel 21.9kg Stainless Steel 17.4k				
Exhaust pipe	Branch o.d., wall thickness	None				
	Main o.d., wall thickness	None				
	Material & Mass (kg (weight lbs))	*2 12.8kg *2 12.6kg *2 12.8kg *2 12.6kg *2 11.0kg				
Intermediate pipe	o.d. & wall thickness	*2 50.8, t1.6				
	Material & Mass (kg (weight lbs))	Al Coat Steel 4.4kg Al Coat Steel 4.9kg Al Coat Steel 4.9k				
Tail pipe	o.d. & wall thickness	*2 38.1 t1.2 Quad Pipe				
	Material & Mass (kg (weight lbs))	Stainless Steel				

- *1: 3. One Pre Muffler and Two Main Mufflers, Pre Muffler: Straight Thru Main Muffler; Reverse Flow with Resonator
*2: Stainless Steel

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VG30DE	VG30DETT
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Transmissions/Transaxle (Std., Opt., N.A.)

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

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.214
	2nd	1.925
	3rd	1.302
	4th	1.000
	5th	0.752
	Reverse	3.369
Synchronous meshing (specify gears)		1, 2, 3, 4, 5
Shift lever location		Floor Mounted
Trans. case mat'l. & mass kg (lbs)*		Aluminum Alloy 53
Lubricant	Capacity [L (pt.)]	2.8L
	Type recommended	NISSAN GEAR OIL (MULTI SPECIAL)

Clutch (Manual Transmission)

Clutch manufacturer		ATSUGI	
Clutch type (dry, wet; single, multiple disc)		Dry Single Disc	
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic	
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed		
	Released		
Assist (spring, power/percent, nominal)			
Type pressure plate springs		Diaphragm	
Total spring load (nominal, new) N (lbs)		580 kg	800 kg
Clutch facing	Facing mtr. & material coding	NISSHIMBO NN62	NISSHIMBO NN62
	Facing material & construction	Non-Asbestos	Non-Asbestos
	Rivets per facing	16	16
	Outside x inside dia. (nominal)	240 x 160	250 x 160
	Total eff. area (cm ² (in. ²))	251	290
	Thickness (pressure plate side/fly wheel side)	3.5/3.5	
	Rivet depth (pressure plate side/fly wheel side)	1.3~1.8/1.3~1.8	
	Engagement cushion method	Flat Wave Spring	
Release bearing type & method lub.		Ball Bearing Sealed Type	
Torsional damping method, springs, hysteresis		Coil Springs and Friction Washers	

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

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Engine Description
 Engine Code

VG30DE

VG30DETT

☒ Automatic Transmission/Transaxle

Trade Name		FULL RANG EAT (RE4R01A)	FULL RANG EAT (RE4R03A)
Type and special features (describe)		4 Speed with Lock Up Torque Converter, Electronic Control	
Gear selector	Location (column, floor, other)	Floor Mounted	
	Ltr./No. designation (e.g. PRND21)	P, R, N, D, 2, 1	
	Shift interlock (yes, no, describe)	Yes	
Gear ratios	1st	2.785	2.784
	2nd	1.545	1.544
	3rd	1.000	1.000
	4th	0.694	0.694
	Reverse	2.272	2.275
Max. upshift speed - drive range [km/h (mph)]		171	188
Max. kickdown speed - drive range [km/h (mph)]		165	182
Min. overdrive speed [km/h (mph)]		38	
Torque converter	Number of elements	3	
	Max. ratio at stall	2.0 : 1	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	250	
	Capacity factor "K"		
Lubricant	Capacity (refill L(pt.))	8.5	8.5
	Type recommended	NISSAN MATIC FLUID 'D'	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Std. Liquid	
Transmission mass [kg (lbs)] & case material **		Aluminum Alloy 74	Aluminum Alloy 91

☒ 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 + $\sqrt{\text{torque}}$

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

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Engine Description
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VG30DE

VG30DETT

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

Axle ratio (or overall top gear ratio)		4.083	3.692
Ring gear o.d.		205	230
No. of teeth	Pinion	12	13
	Ring gear	49	48

☒ Rear Axle Unit

Description		Independent Suspension	
Limited slip differential (type)		Std. (Viscous)	
Drive pinion	Type	HYPOID	
	Offset	35	
No. of differential pinions		4	
Pinion / differential	Adjustment (shim, etc.)	Shim	
	Bearing adjustment	Solid Spacer	
Driving wheel bearing (type)			
Lubricant	Capacity (L (pt.))	1.5	2.1
	Type recommended	API GL-5 80W-90	

☒ Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed transmission		N.A.	
	Manual 4-speed transmission		N.A.	
	Manual 5-speed transmission		2 Seat 75x606x1.6+75x419x75 2+2 Seat 75x606x1.6+75x539x75	826x606x2.0+752x388x2.6
	Overdrive		N.A.	
	Automatic transmission		2 Seat 75x510x1.6+75x419x1.6 2+2 Seat 75x510x1.6+75x539x1.6	82.6x489x2.0+75.2x388x2.6
Inter- mediate bearing	Type (plain, anti-friction)		Ball Bearing	
	Lubrication (fitting, prepack)		prepack	
Slip yoke	Type		Sliding Spline	
	Number of teeth		30(M/T) 26(A/T)	30
	Spline o.d.		32(M/T) 28(A/T)	32
	Make and mfg. no.	Front	ATSUGI	
Rear		ATSUGI		
Universal joints	Number used		3	
	Type (ball and trunnion, cross)		Cross	Cross, C.V.J. (3rd Joint)
	Rear attach (u-bolt, clamp, etc)		Clamp	
	Bearing	Type (plain, anti-friction)	Anti-Friction	
		Lubrication (fitting, prepack)	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 rear attachment. Page 10
MVMA-90 (Rear Wheel Drive)

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METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

VG30DE		VG30DETT
2 SEATER	2 + 2 SEATER	2 SEATER

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not avail.	N.A.	N.A.	N.A.
	Manual/automatic control			
	Type (air/hydraulic)			
	Primary/assist spring			
	Rear only/4 wheel leveling			
	Single/dual rate spring			
	Single/dual ride heights			
	Provision for jacking			
Shock absorber damping controls	Standard/option/not avail.	N.A.	N.A.	STANDARD
	Manual/automatic control			MANUAL
	Number of damping rates			2
	Type of actuation (manual/ electric motor/air, etc.)			ELECTRIC MOTOR
	s Lateral acceleration			N.A.
	s Deceleration			N.A.
	s Acceleration			N.A.
Shock absorber (front & rear)	s Road surface			N.A.
	Type	Direct Double Acting Hydraulic		
	Make	FR:TOKICO/KYB RR:TOKICO/KYB		
	Piston diameter	FR:ø25 RR:ø30	FR:ø25 RR:ø30	FR:ø30 RR:ø30
	Rod diameter	FR:ø12.5 RR:ø12.5	FR:ø12.5 RR:ø12.5	FR:ø12.5 RR:ø12.5

Suspension - Front

Type and description		Independent Multi-Link Type		
Travel*	Full jounce	80		
	Full rebound	100		
Spring	Type (coil, leaf, other) & material	Coil Spring Steel		
	Insulators (type & material)	Rubber Insulator Type		
	Size (coil design height & i.d.)	360 x ø90	370 x ø90	370 x ø90
	Spring rate [N/mm (lb./in.)]	3.0 kg/mm	2.8 kg/mm	3.0 kg/mm
	Rate at wheel [N/mm (lb./in.)]	2.78 kg/mm	2.6 kg/mm	2.78 kg/mm
Stabilizer	Type (link, linkless, frameless)	Link	Link	Link
	Material & bar diameter	High Carbon Steel ø27.2 *1 ø28.6 *1 ø27.2		

Suspension - Rear

Type and description		Independent Multi-Link Type		
Travel*	Full jounce	100		
	Full rebound	100		
Spring	Type (coil, leaf, other) & material	Coil Spring Steel		
	Size (length x width, coil design height & i.d.)	370 x ø90	380 x ø90	370 x ø90
	Spring rate [N/mm (lb./in.)]	2.2 kg/mm	2.2 kg/mm	2.4 kg/mm
	Rate at wheel [N/mm (lb./in.)]	2.9 kg/mm	2.9 kg/mm	3.1 kg/mm
	Insulators (type & material)	Rubber Insulation Type		
	II No. of leaves	N.A.	N.A.	N.A.
Stabilizer	leaf Shackles (comp. or tens.)	N.A.	N.A.	N.A.
	Type (link, linkless, frameless)	Link	Link	Link
	Material & bar diameter	*1 ø15.9	*1 ø21	*1 ø25.4
Track bar (type)		N.A.	N.A.	N.A.

* Define load condition:

*1: High Carbon Steel

MVMA Specifications

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

VG30DE

VG30DETT

Brakes - Service

Description				
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc: Std.	
	Rear (disc or drum)		Disc: Std.	
Valving type (proportion, delay, metering, other)			Rear: Proportioning	
Power brake (std., opt., n.a.)			Std.	
Booster type (remote, integral, vac., hyd., etc.)			Integral	
Vacuum	Source (inline, pump, etc.)		Inline	
	Reservoir (volume in. ³)		192.2	
	Pump type (elec. gear driven, belt driven)		N.A.	
Traction control	Operational speed range		N.A.	
	Type engine intervention (electronic, mech.)		N.A.	
Anti-lock device	Front / rear (std., opt., n.a.)		Opt.	Std.
	Manufacturer		NIPPON ABS, LTD.	NIPPON ABS, LTD.
	Type (electronic, mech.)		Electronic	Electronic
	Number sensors or circuits		4 sensor	4 sensor
	Number anti-lock hydraulic circuits		3 channel	3 channel
	Integral or add-on system		Add-on system	Add-on system
	Yaw control (yes, no)		No	No
	Hydraulic power source (elec., vac. mfr., pwr. strg.)		Electronic	Electronic
Effective area [cm ² (in. ²)]*			Front: 200, Rear: 96	
Gross Lining area [cm ² (in. ²)]**(F/R)			Front: 200, Rear: 96	
Swept area [cm ² (in. ²)]*** (F/R)			Front: 1433, Rear: 1186	
Rotor	Outerworking diameter	F/R	Front: 278, Rear: 295	
	Inner working diameter	F/R	Front: 178, Rear: 222	
	Thickness	F/R	Front: 26, Rear: 18	Front: 30, Rear: 18
	Material & type (vented/solid)	F/R	Front: Cast Iron(Vented), Rear: Cast Iron(Vented)	
Drum	Diameter & width	F/R	N.A.	
	Type and material	F/R	N.A.	
Wheel cylinder bore			Front: 40.45 x 4, Rear: 38.18 x 2	
Master cylinder	Bore/stroke	F/R	Std: 23.81/31, Opt: 26.98/31 26.98/31	
Pedal arc ratio			3.8	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			Std: 13630, Opt: 10546	10546
Lining clearance			Front: No Major Adjustment Required, Rear: No Major Adjust	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	Bonded
		Rivet size	N.A.	N.A.
		Manufacturer	SUMITOMO	AKEBONO
		Lining code*****	SUMITOMO SP12H FF	AKEBONO AP50H FF
		Material	Molded Semi Metallic	Molded Non Asbestos
		**** Primary or out-board	116.0 x 50.0 x 10.0	116.0 x 50.0 x 10.0
		Size Secondary or in-board	116.0 x 50.0 x 10.0	116.0 x 50.0 x 10.0
		Shoe thickness (no lining)	4.5	4.5
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	
		Manufacturer	SUMITOMO	
		Lining code*****	SUMITONO SP12 FF	
		Material	Molded Semi Metallic	
		**** Primary or out-board	71.8 x 36.5 x 11.5	
		Size Secondary or in-board	71.8 x 36.5 x 11.5	
		Shoe thickness (no lining)	4.5	

* 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 300ZX
 Model Year '90 Issued '89-8 Revised (+) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

VG30DE		VG30DET
2 SEATER	2 + 2 SEATER	2 SEATER

Tires And Wheels (Standard)

Tires	Size (load range, ply)		(*1)	(*1)	(*2)
	Type (bias, radial, steel, nylon, etc.)		Radial	Radial	Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	230_KPa (33 psi)	230 KPa (33 psi)	230 KPa (33 psi)
		Rear [kPa (psi)]	250 KPa (36 psi)	250 KPa (36 psi)	250 KPa (36 psi)
	Rev./mile-at 70 km/h (45 mph)		605 rpm	605 rpm	FR 605 rpm,RR 610 r
Wheels	Type & material		Aluminum Casting	Aluminum Casting	Aluminum Casting
	Rim (size & flange type)		16 x 7 - 1/2 - JJ	16 x 7 - 1/2 - JJ	*3
	Wheel offset		45	45	FR 45, RR 35
	Attachment	Type (bolt or stud)	Stud	Stud	Stud
		Circle diameter	114.3	114.3	114.3
Number & size		M12x1.25,5HEX NUTS	M12x1.25,5HEX NUTS	M12x1.25, 5HEX NUTS	
Spare	Tire and wheel		165/80D15 15 x 5 - J	T125/90D16 16 x 4T	165/80D15 15 x 5 - J
	Storage position & location (describe)				

Tires And Wheels (Optional)

Tire size (load range, ply)	N.A.
radial, steel, nylon, etc.)	N.A.
Wheel (type & material)	N.A.
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)	
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 Type Hand Operation
Location of control		Between Front Seats
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	N.A.
	Lining size (length x width x thickness)	N.A.

- (*1) P225/50 R16 91V Load Range B
- (*2) FRONT: 225/50 ZR16 Load Range B
 REAR: 245/45 ZR16 Load Range B
- (*3) FR 16 x 7 - 1/2 - JJ, RR 16 x 8 - 1/2 - JJ

MVMA Specifications

Vehicle Line NISSAN 300ZX
 Model Year '90 Issued '89-8 Revised (-) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2 seater	2 + 2 seater
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Steering

Manual (std., opt., n.a.)			N.A.		
Power (std., opt., n.a.)			Std.		
Adjustable steering wheel/column (tilt, telescope, other)	Type		N.A.		
	Manufacturer		Fuji Kiko		
	(std., opt., n.a.)		N.A.		
Wheel diameter** (W9) SAE J1100	Manual		N.A.		
	Power		ø370		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-		
		Curb to curb (l. & r.)	10.8	11.2	
	Inside rear	Wall to wall (l. & r.)	-		
		Curb to curb (l. & r.)	-		
Scrub Radius*			0		
Manual	Gear	Type	-		
		Manufacturer		-	
		Ratios	Gear	-	
			Overall	-	
	No. wheel turns (stop to stop)		-		
Power	Type (coaxial, elec., hyd., etc.)		Integral Gear & Power Piston with Vane Type Pump		
	Manufacturer		NISSAN		
	Gear	Type	Rack & Pinion		
		Ratios	Gear	∞	
			Overall	14.8 (T/C) , 16.9 (N/A)	
	Pump (drive)		Belt from Crank-Shaft Pulley		
No. wheel turns (stop to stop)		2.4 (T/C), 2.7 (N/A)			
Linkage	Type		Parallelogram		
	Location (front or rear of wheels, other)		Rear		
	Tie rods (one or two)		2		
Steering axis	Inclination at camber (deg.)		-		
	Bearings (type)	Upper	Radial Ball Bearing		
		Lower	Ball Joint		
		Thrust	None		
Steering spindle/knuckle & joint type			Multi link ball joint type		
Wheel spindle/hub	Diameter	Inner bearing	ø38		
		Outer bearing	ø38		
	Thread (size)		M24 x 1.5		
	Bearing (type)		Tapered Roller Bearing		

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

** See Page 22.

MVMA Specifications

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (+) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

All Models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$9^{\circ}45' \pm 45'$
		Camber (deg.)	$-0^{\circ}50' \pm 45'$
		Toe-in (outside track-mm (in.))	1 ± 1 (mm)
	Service reset*	Caster	$9^{\circ}45' \pm 45'$
		Camber	$-0^{\circ}50' \pm 45'$
		Toe-in	1 ± 1 (mm)
	Periodic M.V. inspection	Caster	$9^{\circ}45' \pm 45'$
		Camber	$-0^{\circ}50' \pm 45'$
		Toe-in	1 ± 1 (mm)
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-1^{\circ}05' \pm 30'$
		Toe-in (outside track-mm (in.))	2 ± 2 (mm)
	Service reset*	Camber	$-1^{\circ}05' \pm 30'$
		Toe-in	2 ± 2 (mm)
	Periodic M.V. inspection	Camber	$-1^{\circ}05' \pm 30'$
		Toe-in	2 ± 2 (mm)

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Dial with Pointer
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		N.A.
Charge indicator	Type	None
	Warning device (light, audible)	Light
Temperature indicator	Type	Gauge
	Warning device (light, audible)	None
Oil pressure indicator	Type	Gauge
	Warning device (light, audible)	None
Fuel indicator	Type	Gauge
	Warning device (light, audible)	Light
Windshield wiper	Type (standard)	Electric 2-Speed with Interval
	Type (optional)	N.A.
	Blade length	525 mm
	Swept area (cm ² (in. ²))	7169 cm ²
Windshield washer	Type (standard)	Electric
	Type (optional)	N.A.
	Fluid level indicator (light, audible)	Level Sensor
Rear window wiper, wiper/washer (std., opt., n.a.)		Wiper & Washer ; Std.
Horn	Type	Vibrator
	Number used	2
Other		Std.: Parking Brake & Brake Failure Warning Light, High Beam Indicator, Tachometer, Theft Protection System Warning, Turn Signal Indi

Seat Belt Warning Light, Door Open Warning Light, Emission System Warning Light, Tail & Stop Lamp Warning Light, Cruise & Cruise Control Indicator Light, Emerge Flasher, Restraint System Warning Light & Chime, Low Washer Fluid Warning Light (Except for California Model)

Opt.: Anti-Lock Brake System Warning Light, HICAS System Warning Light(Turbo Model), Boost Meter(Turbo Model), Security Illumination System(GLL Model)

MVMA Specifications

Vehicle Line NISSAN 300ZX
 Model Year '90 Issued '89-8 Revised (-)

METRIC (U.S. Customary)

Engine Description
 Engine Code

VG30DE	VG30DETT
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Electrical – Supply System

Battery	Manufacturer	SHIN-KOBE, MATSUSHITA, YUASA, FURUKAWA, JAPAN-STORAGE	
	Model, std., (opt.)	65D26R(M/T)	80D26R(A/T)
	Voltage	12V	
	Amps at 0°F cold crank	413(M/T)	582(A/T)
	Minutes-reserve capacity	113(M/T)	133(A/T)
	Amps/hrs.-20 hr. rate	65	
	Location	Right Side Rear of Engine Compartment	
Alternator	Manufacturer	HITACHI	MITSUBISHI
	Rating (idle/max. rpm)	80A	90A
	Ratio (alt. crank/rev.)	2.43	
	Output at idle (rpm, park)	38A	
	Optional (type & rating)	N.A.	
Regulator	Type	IC REGULATOR	

Electrical – Starting System

Motor	Manufacturer	MITSUBISHI
	Current drain _____ °F	N.A.
	Power rating (kw (hp))	1.4 kw
Motor drive	Engagement type	Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	Std.	
	Other (specify)	N.A.	
Coil	Manufacturer	HANSHIN	
	Model	MCP-400	MCP-401
	Current	Engine stopped – A	0A
		Engine idling – A	0.5A
Spark plug	Manufacturer	NGK	
	Model	PFR 6B-11	PFR 5B-11B
	Thread (mm)	14 mm	
	Tightening torque (N-m (lb. ft))	20-29 Nm	
	Gap	1.0 to 1.1 mm	
	Number per cylinder	1	
Distributor	Manufacturer	N.A.	
	Model	N.A.	

Electrical – Suppression

Locations & type	Resistance Type Spark Plugs
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MVMA Specifications

Vehicle Line NISSAN 300ZX
 Model Year '90 Issued '89-8 Revised (-) _____

METRIC (U.S. Customary)

Body Type

2 SEATER

2 + 2 SEATER

Body

Structure	Monocoque Body
Bumper system front - rear	Impact Shock Absorbing Bumper
Anti-corrosion treatment	Surface Treatment Steel Seat Anti Corrosion Sealand Anti Corrosion Wax

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Acrylic Lacquer	
Hood	Material & mass	Aluminum 8.0 kg
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	N.A.
	Type (counterbalance, other)	N.A.
	Internal release control (elec., mech., n.a.)	N.A.
Hatch-back lid	Material & mass	Steel 17.3 kg Steel 19.1 kg
	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	Mech
Tailgate	Material & mass	N.A.
	Type (drop, lift, door)	N.A.
	Internal release control (elec., mech., n.a.)	N.A.
Vent window control (crank, friction, pivot, power)	Front	N.A.
	Rear	N.A.
Window regulator type (cable, tape, flex drive, etc.)	Front	X Arm Type
	Rear	N.A.
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Spring + Urethane Foam
	Rear	N.A. Urethane Foam
	3rd seat	N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Spring + Urethane Foam
	Rear	N.A. Urethane Foam
	3rd seat	N.A.

MVMA Specifications

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (-)

METRIC (U.S. Customary)

Body Type

2 SEATER	2 + 2 SEATER
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Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	N.A.	N.A.	N.A.
	Standard / optional	Second seat	3 Points with Retractor (ELR) (2 + 2)	N.A.	3 Points with Retractor (ELR) (2 + 2)
		Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	3 Points with Retractor(Fixed Belt) (2, 2 + 2)	N.A.	3 Points with Retractor(Fixed Be (2, 2 + 2)
	Standard / optional	Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.		
Windshield glass exposed surface area (cm ² (in. ²))	S1	10275 cm ²	
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	8888 cm ²	9580 cm ²
Backlight glass exposed surface area (cm ² (in. ²))	S3	9938 cm ²	11774 cm ²
Total glass exposed surface area (cm ² (in. ²))	S4	29101 cm ²	31629 cm ²
Windshield glass (type)		Anti-Sun Compound Curved Laminated Plate	
Side glass (type)		Anti-Sun Curved Tempered Plate	
Backlight glass (type)		Anti-Sun Curved Tempered Plate	

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Replaceable Bulb
Shape	Proper Shape
Lo-beam type (2A1, 2B1, 2C1, etc.)	HB4
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB3
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	N.A.
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MVMA Specifications

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (+) _____

METRIC (U.S. Customary)

Body Type

All Models

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

Air conditioning (manual, auto, temp control)		GL : Manual GLL : Auto
Clock (digital, analog)		Digital
Compass / thermometer		N.A.
Console (floor, overhead)		Floor
Defroster, elec, backlight		Defroster Std.
Electronic	Diagnostic monitor (integrated, individual)	Individual
	Instrument cluster (list instruments)	None
	Keyless entry	None
	Tripminder (avg. spd., fuel)	None
	Voice alert (list items)	None
	Other	None
Fuel door lock (remote, key, electric)		Remote
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	None
	Courtesy (map, reading)	Std.
	Door lock, ignition	GL:N.A. GLL:Std.
	Engine compartment	N.A.
	Fog	FR:Std. RR:None
	Glove compartment	Std.
	Trunk	2 Seater:None 2+2 Seater:Std.
	Illuminated entry system (list lamps, activation)	GL:N.A. GLL:Std.
	Other	N.A.
Mirrors	Day / night (auto, man.)	Man
	L.H. (remote, power, heated)	Remote:Std. Heated:GLL Std. (CANADA Std.)
	R.H. (convex, remote, power, heated)	Convex Remote:Std. Heated:GLI Std. (CANADA Std.)
	Visor vanity (RH / LH, illuminated)	R.H.
Navigation system (describe)		N.A.
Parking brake-auto release (warning light)		N.A.

MVMA Specifications

Vehicle Line NISSAN 300ZX
 Model Year '90 Issued '89-8 Revised (+) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

FIXED ROOF

OPEN ROOF

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

Power equipment	Deck lid (release, pull down)		N.A.
	Door locks (manual, automatic, describe system)		Automatic
	Seats	2 - 4 - 6 way, etc.	4 Way (Power Seat : GLL Std. GL Opt.)
		Reclining (R.H., L.H.)	L.H.
		Memory (R.H., L.H., present, recline)	N.A.
		Lumbar, hip, thigh, support	Lifter
		Heated (R.H., L.H., other)	N.A.
	Side windows		N.A.
	Vent windows		N.A.
Rear windows		N.A.	
Radio systems	Antenna (location, whip, w / shield, power)		Power:Std. Rear Fender & Rear Glass
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Radio with Cassette
	Optional		
	Speaker (number, location)		GL:FR 2 RR2 GL Opt. & GLL: FR 3 RR2
	Roof: open air or fixed (flip-up, sliding, "T")		VG30DE GL:Fixed Roof All Models:T-Roof
Speed control device		Std.	
Speed warning device (light, buzzer, etc.)		N.A.	
Tachometer (rpm)		Std.	
Telephone system (describe)		N.A.	
Theft deterrent system		Std.	

MVMA Specifications

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 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.	2 SEATER	2 + 2 SEATER
Width			
Tread (front)	W101	1495	
Tread (rear)	W102	1535(VG30DE) 1555(VG30DET)	
Vehicle width	W103	1790	1800
Body width at Sg RP (front)	W117	1766	
Vehicle width (front doors open)	W120	3993	
Vehicle width (rear doors open)	W121	N.A.	
Tumble-home (deg.)	W122	32°30'	32°42'
Outside mirror width	W410	2018	

Length			
Wheelbase	L101	2450	2570
Vehicle length	L103	4305	4520
Overhang (front)	L104	915	
Overhang (rear)	L105	940	1035
Upper structure length	L123	2434	2618
Rear wheel C/L "X" coordinate	L127	2450	2570

Height*			
Passenger distribution (front/rear)	PD1,2,3	2	2/2
Trunk/cargo load		90 lbs	
Vehicle height	H101	1226 1230(T-Bar Roof)	1221
Cowl point to ground	H114	852	844
Deck point to ground	H138	951	928
Rocker panel-front to ground	H112	154	146
Rocker panel-rear to ground	H111	141	122
Windshield slope angle	H122	62°24'	
Backlight slope angle	H121	75°30'	76°6'

Ground Clearance*

Front bumper to ground	H102	167	
Rear bumper to ground	H104	272	244
Bumper to ground (front at curb mass (wt.))	H103	171	173
Bumper to ground (rear at curb mass (wt.))	H105	303	301
Angle of approach (degrees)	H106	11°44'	11°46'
Angle of departure (degrees)	H107	16°41'	13°38'
Ramp breakover angle (degrees)	H147	10°59'	9°16'
Axle differential to ground (front/rear)	H153	Rear 181 171(Turbo Model)	159
Min. running round clearance	H156	115	101
Location of min. run. grd. clear.		Heat Insulator of Catalyzer	

* 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

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (-)

Body Type

2 SEATER

2 + 2 SEATER

Front Compartment

SAE
Ref.
No.

SgRP front, "X" coordinate	L31	1614	
Effective head room	H61	939	935(T-Bar Roof) 943
Max. eff. leg room (accelerator)	L34	1092	
SgRP to heel point	H30	175	
SgRP to heel point	L53	869	
Back angle	L40	23°	
Hip angle	L42	92°	
Knee angle	L44	130°	
Foot angle	L46	102°	
Design H-point front travel	L17	202	
Normal driving & riding seat track trvl.	L23	202	
Shoulder room	W3	1441	
Hip room	W5	1359(USA) 1361(CANADA)	
Upper body opening to ground	H50	1114	1122(T-Bar Roof) 1108
Steering wheel maximum diameter*	W9	ø370	
Steering wheel angle	H18	19°24'	
Accel. heel pt. to steer. whl. cntr	L11	463	
Accel. heel pt. to steer. whl. cntr	H17	561	
Undepressed floor covering thickness	H67	26	

Rear Compartment

SgRP point couple distance	L50	N.A.	526
Effective head room	H63	N.A.	875
Min. effective leg room	L51	N.A.	577
SgRP (second to heel)	H31	N.A.	232
Knee clearance	L48	N.A.	-209
Shoulder room	W4	N.A.	1403
Hip room	W6	N.A.	1047
Upper body opening to ground	H51	N.A.	1101
Back angle	L41	N.A.	31°
Hip angle	L43	N.A.	75°
Knee angle	L45	N.A.	36°
Foot angle	L47	N.A.	88°
Depressed floor covering thickness	H73	N.A.	16°

Luggage Compartment

Usable luggage capacity (L (cu. ft.))	V1	205 L	153 L 237 L(Rear Seat Down)
Liftover height	H195	846	819

Interior Volumes (EPA Classification)

Vehicle class		TWO SEATERS	SUBCOMPACT CARS
Interior volume index (cu. ft.)**		75.8	86.8
Trunk / cargo index (cu. ft.)		23.7	11.5

* See page 14.

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (-)

Body Type

2 SEATER

2 + 2 SEATER

Station Wagon - Third Seat

SAE
Ref.
No.

Seat facing direction	SD1	N.A.
SgRP couple distance	L85	N.A.
Shoulder room	W85	N.A.
Hip room	W86	N.A.
Effective leg room	L86	N.A.
Effective head room	H86	N.A.
SgRP to heel point	H87	N.A.
Knee clearance	L87	N.A.
Back angle	L88	N.A.
Hip angle	L89	N.A.
Knee angle	L90	N.A.
Foot angle	L91	N.A.

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	824	1015
Cargo length at floor (front)	L209	1314	1474
Cargo length at second seatback height	L210	N.A.	692
Cargo length at floor (second)	L211	N.A.	947
Front seatback to load floor height	H197	438	353
Second seatback to load floor height	H198	N.A.	284
Cargo volume index (m ³ (ft. ³))	V3	0.675	0.616
Hidden cargo volume index (m ³ (ft. ³))	V4	None	
Cargo volume index-rear of 2-seat	V11	N.A.	0.327

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line NISSAN 300ZX
 Model Year '90 Issued '89-8 Revised (+) _____

Body Type

2 SEATER

2 + 2 SEATER

Vehicle Fiducial Marks

Number

Define Coordinate Location

Front

The Center of the Left Bolt Head(Outside) Securing the Left Tension Rod Bracket to the Cross Member.

Rear

The Center of the Left Bolt Point Securing the Rear Suspension Mounting Member to the Rear Side Member.

Fiducial Mark Number

Front	W21*	296	
	L54*	-431	
	H81*	-6	
	H181*	178	
	H183*	172	180
			169
Rear	W22*	343	
	L55*	2620	
	H82*	134	2740
	H182*	326	
	H184*	300	325
			277

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

METRIC (U.S. Customary)

Vehicle Line NISSAN 300ZX

Model Year '90 issued '89-8 Revised (-)[illegible]

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

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

ETWC LEGEND

J	= 1000	I	= 2000	Q	= 3000	Y	= 4000
K	= 1125	L	= 2125	R	= 3125	Z	= 4250
M	= 1250	N	= 2250	S	= 3250	AA	= 4500
O	= 1375	P	= 2375	T	= 3375	BB	= 4750
U	= 1500	V	= 2500	U	= 3500	CC	= 5000
X	= 1625	W	= 2625	V	= 3625	DD	= 5250
Y	= 1750	X	= 2750	W	= 3750	EE	= 5500
Z	= 1875	Y	= 2875	X	= 3875	FF	= 5750

SHIPPING MASS (weight) Calculation (Kg. (lbs.))

Shipping Mass (weight) = Curb Weight Less:

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line NISSAN 300ZX
Model Year '90 Issued '89-8 Revised (•) _____

[illegible]

* Also see Engine - General Section for dressed engine mass (weight).