# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

**METRIC (U.S. Customary)** 

1998

Manufacturer	Vehicle Line	
TOYOTA MOTOR CORPORATION	TOYOTA SUPRA	
Mailing Address		
Toyota Motor Sales, U.S.A., Inc. 19001 S. Western Avenue Torrance, CA 90509	Issued Revised Aug., 1997	

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This suggested specification form was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

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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).
- 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.

Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

Vehicle Line TOYOTA SUPRA

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### Vehicle Origin

Design & development(company)	TOYOTA MOTOR CORPORATION
Where built(country)	Japan
Authorized U.S. sales marketing representative	Toyota Motor Sales, U.S.A., Inc.

#### Vehicle Models

Model Introduction Description & Drive Date (FWD/RWD/AWD/4WD)* Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
2JZ-GE, 2-door Lift-back, 4 A/T, RWD	JZA80L-ALPVFA	2/2	125	18/24
2JZ-GE, 2-door Lift-back, 4 A/T, RWD	JZA80L-AJPVFA	2/2	125	18/24
2JZ-GTE, 2-door Lift-back, 6 M/T, RWD	JZA80L-ALFVZA	2/2	125	17/24
2JZ-GTE, 2-door Lift-back, 6 M/T, RWD	JZA80L-AJFVZA	2/2	125	17/24
2JZ-GTE, 2-door Lift-back, 4 A/T, RWD	JZA80L-AJPVZA	2/2	125	19/24

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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.

		ſ	(A)	В	С
	Engine	Code	2JZ-GE	2JZ-GTE	-
:	Displace Liters(i	ement n²)	2.997(183)	2.997(183)	-
mzG-zm	Induction system (FI,Carb,etc.)		SFI	SFI with turbo	<b>-</b>
	Compression ratio		10.5	8.5	-
	SAE Net	Power kW(bhp)	168(225)/6000	239(320)/5600	<del>-</del>
	at Torque	Torque N · m(lb.ft.)	298(220)/4000	427(315)/4000	-
	Exhaust single,dual		Semi-dual	Semi-dual	-
TRANS	Transn Transa	nission/ xle	4A/T	6M/T	4A/T
	Effectiv	ve Final Drive/ atio(std.first)	4.083	3.133	3.769

Series Availability		Power Team	ns(A-B-C-D)
Model	Code	Standard	Optional
2-door Lift-back,4A/T, RWD		A	
2-door Lift-back,4A/T, RWD		A	
2-door Lift-back,6M/T, RWD		В	
2-door Lift-back,6M/T, RWI		В	
2-door Lift-back,4A/T, RWD		C	<del>_</del>
2-0001 2210 1 201,000			
<u> </u>			

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#### METRIC(U.S. Customary)

Engine Description Engine Code 2JZ-GE 2JZ-GTE **ENGINE - GENERAL** 

flet, location, transverse, lo	iption (inline, V. angle, front, mid, rear, ingitudinal, soho, doho, edge, pre-chamber, etc.)	Inline, front, longitudinal, DOHC, pentroof			
Manufacturer	,	TOYOTA MOTOR CORPORATI	ION		
No. of cylinde	ers	6			
Bore		86.0			
Stroke		86.0			
Bore spacing	(C/L to C/L)	93.0			
Cylinder block	meterial & mass kg(lbs.)(machined)	Cast iron, 58.7			
Cylinder bloc	ck deck height	219.0			
Cylinder bloc	k length	615.5			
Deck clearan (above or bel	ce (minimum) ow block)	0			
Cylinder head	d material & mass kg(lbs.)	Aluminum alloy, 19.6			
Cylinder hea	d volume cm³ (inches³)	41.6	44.9		
Cylinder liner material		N.A.			
Head gasket (compressed	thickness )	0.4	1.35		
	mbustion chamber cm³ (inches³)	52.2	66.5		
Cyl. no. syster	n L. Bank	1-2-3-4-5-6			
(front to rear)					
Firing order		1-5-3-6-2-4			
Intake manif	old material & mass kg(lbs.)**	Aluminum alloy, 8.5	Aluminum alloy, 6.0		
Exhaust man	nifold material & mess kg(lbs.)**	Stainless steel, 13.4	Cast steel, 4.7		
Knock sensor	r (number & location)	2, cylinder block			
	d unleaded, diesel, etc.	Unleaded premium gasoline required			
Fuel antikno	ck index (R + M) + 2	91			
	Quantity	Fr.=2, Rr.=1			
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric			
veina	Added isolation (sub-frame, crossmember, etc.)	Crossmember, Support member			
Total dressed	d engine mass(wt) dry***	211	A/T:237, M/T:252		
Engine -	- Pistons				
Material & n	mass, a		11 000		

Material & mass, g (weight, oz)-piston only	Aluminum alloy, 358	Aluminum alloy, 369
Engine - Camshaft		

Location  Material & mass kg (weight, lbs.)		Cylinder head		
		Cast iron, 3.5/3.5	Cast iron, 3.3/3.3	
D. (	Chain / belt	Timing belt		
Drive type	Width / pitch	25.4/8.0		

<sup>\*</sup> Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

<sup>\*\*\*</sup> Dressed engine mass (weight) includes the following: \*1=91(96 RON) or higher is recommended

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Engine Description Engine Code	2JZ-GE	2JZ-GTE
Fngine - Valve System		

2.1.9				 
Hydraulic li	ifters (std., opt., n.a.)	N.A.		 
V/alvae	Number intake/exhaust	12/12		 _ <del></del>
	Head O.D. intake/exhaust	33.5/29.0	·	 <u> </u>

### Engine - Connecting Rods

Material & mass kg.,(weight,lbs.)*	Forged steel, 0.65	Forged steel, 0.75
Length(exes C/L to C/L)	142.0	

#### Engine - Crankshaft

Material & mass kg.,(weight,lbs.)*		Forged steel, 28	
End thrust taken by bear	ring(no.)	No.4	
Length & number of mai	in bearings	701, 7	
Seal(material,one,two	Front	Synthetic rubber, one piece	
piece design, etc.)	Rear	Synthetic rubber, one piece	

#### Engine - Lubrication System

		1 000 (0000
Normal oil pressure kPa(psi) at engine rpm	380/2000	290/2000
Type oil intake(floating, stationary)	Stationary	
Oil filter system(full flow,part,other)	Full flow	
Capacity of c/case,less filter-refill-L(qt.)	4.9	4.7

### Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, cu	irrent drain at O°F	
Injector	Туре	
nozzle	Opening pressure kPa(psi)	
Pre-chamber	design	
Fuel in-	Manufacturer	
jection pump	Туре	
Fuel injection	pump drive(belt,chain,gear)	
Supplementar	ry vacuum source(type)	
Fuel heater(y	ves/no)	
Water separa (std.,opt.)	itor, description	
Turbo manuf	facturer	
Oil cooler-typ oil to ambien	ne(oil to engine coolant; it air)	
Oil filter		

#### Engine - Intake System

Turbo charger-manufacturer	N.A.	TOYOTA MOTOR CORPORATION
Super charger-manufacturer	N.A.	
Intercoaler	N.A.	Air cooled furnace brazed aluminum

<sup>\*</sup>Finished State

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### METRIC(U.S. Customary)

Engine Description Engine Code		2JZ-GE	2JZ-GTE	
Engine -	Cooling System			
Coolant recov	ery system(std., opt., n.a.)	Std.		
Coolant fill lo	cation(rad., bottle)	Reservoir tank		
Radiator cap	relief valve pressure kPa(psi)	108		
Circulation	Type(chake, bypass)	Bypass		
hermostat	Starts to open at *C (*F)	82		
	Type(centrifugal,other)	Centrifugal		
	GPM 1000 pump rpm	26 L/min.	36 L/min.	
	Number of pumps	1		
Vater sump	Drive(V-belt, other)	V-belt		
, u	Bearing type	Roller ball		
	Impeller material	Resin		
	Housing material	Aluminum alloy		
3y-pass recir	culation type(inter., ext.)	External		
Cooling	With heater-L(qt.)	A/T=8.3	M/T=8.9, A/T=8.8	
system	With air conditioner-L(qt.)	A/T=8.3	M/T=8.9, A/T=8.8	
epacity	Opt.equipment specify-L(qt.)	N.A.		
Water jacket:	s full length of cyl.(yes.no)	Yes		
Water all arc	und cylinder(yes,no)	No		
Water jacket:	s open at head face(yes,no)	No		
	Std., A/C, HD	Std.		
	Type(cross-flow, etc.)	Vertical flow		
	Construction(fin & tube mechanical, braze, etc.)	Corrugated fin, soldered		
Radiator core	Material, mass kg(wgt., lbs.)	Aluminum, A/T=4.2	Aluminum alloy, M/T=4.0, A/T=4.4	
,,,,,	Width	737		
	Height	399		
	Thickness	A/T=27	27	
	Fins per inch	A/T=14.5	20	
Radiator end	tank material	Resin		
	Std., elec., opt.	Std.	Std.=Main, Electric=Sub(A/T only)	
	Number of blades & type (flex, solid, material)	7, flex, plastics	7, flex, plastic(main)	
	Number & location(front, rear of radiator)	1, rear of radiator  3, rear of radiator(M/T, A/T) 1, front of radiator (A/T only)		
	Diameter & projected width	430/79	430/68(main)	
<b>r</b>	Ratio(fan to crankshaft rev.)	1.25	1.25(main)	
Fan	Fen cutout type	Fluid coupling	Fluid coupling(main)	
	Drive type(direct, remote)	V-belt direct	V-belt direct(main)	
	RPM at idle(elec.)		2500(sub)	
	Motor rating(wattage/elec.)	_	40(sub)	
	Motor switch(type & location/elec.)		Thermo switch at water outlet (Sub)	
	Switch point(temp.,/pressure/elec.)			
	Fan shroud(material)	Resin	Resin	

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ngine Description ngine Code		2JZ-GE	2JZ-GTE	
	uel System (See supplemen	ital page for details of Fuel Injection,Superchar	rger,Turbocharger,etc.if used)	
	Carburetor, fuel	SFI		
lanufacturer		DENSO		
arburetor no.	of barrals	N.A.		
ile A/F mix.		Preset at manufacturer	<u> </u>	
Me Art ana.	Point of injection(no.)	6		
	Constant, pulse, flow	Pulse flow		
uel rjection	Control(electronic, mech.)	Electronic		
•	System pressure kPa(psi)	324	250	
	Manual	Preset-not adjustable		
ile spdrpm spec. neutral				
r drive and	Automatic	Preset-not adjustable		
ropane if				
ntake manifolder water therm	d heat control(exhaust ostatic or fixed)	N.A.		
Air cleaner typ		Paper element type		
uel filter(type		Paper element type/under floor.		
OB) III to (T) po	Type(elec. or mech.)	Electric		
	Location(eng., tank)	In tank		
-uel	Pressure range kPa(psi)	324	353	
oump	Flow rate at regulated pressure L(gal)/hr @kPa(psi)	Minimum 40 at 324	Minimum 180 at 353	
———— Fuel Tank				
Capacity refill		70		
Location (desc		Underside of trunk floor		
Attachment		Bands and Bolts		
	ess kg(weight lbs.)	High density polyethylene		
	Location & material	Right quarter panel, high density r	polyethylene	
Filler pipe	Connection to tank	As one		
Fuel line(mate	<u> </u>	Steel		
Fuel hose(ma		Rubber		
Return line(m		N.A. Steel		
Vapor line(m		Steel		
	Opt., n.a.			
Extended	Capacity L(gallons)			
range tank	Location & material	_		
(ank	Attechment			
	Opt., n.d.			
	Capacity L(gallons)			
Auxiliary	Location & material	-		
tank	Attachment	-		

Attachment

Separate fill

Selector switch or valve

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METRIC(U.S. Customary) **Engine Description** 2JZ-GTE 2JZ-GE Engine Code Vehicle Emission Control SFI + CAC + EGR+ Type(air injection, engine SFI + HO2S + TWC HO2 S + TC + TWC modifications, other) N.A. Pump or pulse Driven by N.A. Air Air distribution injection N.A. (head, manifold, etc.)  $\overline{N}.\overline{A}.$ Point of entry Type(controlled flow, Contolled flow open orifice, other) Exhaust Cylinder head Exhaust source Recircula Exhaust Point of exhaust injection Emission tion Surge tank (spacer, carburetor, manifold, other) Intake manifold Control TWC + TWC TWC Туре 1 + 12 Number of Under floor/Exhaust manifold Location(s) Exhaust manifold Catalytic 1.164/1.335 0.863 Valume L (in<sup>3</sup>) Converter Metal foil Substrate type Pt, Rh Pt. Rh. Pd Noble metal type Noble metal Pt:1.57, Rh:0.29/Pt:2.00, Rh:0.53 Pt:1.29, Rh:1.53, Pd:0.35 concentration(g/cm<sup>3</sup>) Type(ventilates to atmosphere, Induction system closed type induction system, other) Energy source(manifold Crankcasa Manifold vacuum vacuum, carburetor, other) Emission Control Discharges to(intake To surge tank To intake manifold menifold, other) From air cleaner From air inlet tube Air inlet(breather cap, other) Vapor vented to Fuel tank Canister Evapora-(crankcase, tive Carburator N.A. canister, other) Emission Charcoal canister Vapor storage provision Cantrol Yes Closed loop(yes/no) Electronic No system Open loop(yes/no) Engine - Exhaust System Type(single, single with cross-over, Semi dual dual other) 1:reverse flow Muffler no. & type (reverse flow, straight thru, 1:reverse flow, 3:straight thru Stainless steel 6.8 separate resonator) Material & Mass kg(weight lbs.) Stainless steel 2.6/2.6/6.1/1.8 Resonator no. & type N.A. Branch o.d., wall thickness N.A. Exhaust 48.6/65. 1.5 Main o.d., wall thickness pipe Stainless steel, 4.4/7.8 Stainless steel 7.0 Material & Mass kg (weight lbs.) Intero.d. & wall thickness 70/54, 1.2 mediate Stainless steel, 5.8 Stainless steel, 10.4 Material & Mass kg (weight lbs.) pipa 54/75, 1.2 o.d. & wall thickness 48.6/75, 1.2 Tail Stainless steel, 8.2 pipe Material & Mass kg (weight lbs.) Stainless steel, 7.7

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Engine Description Engine Code		2JZ-GE	2JZ-GTE		
Transmissions/Transaxle(Std., O		Opt., N.A.)			
Manuel 4-spe	ed(manufacturer/country)	-	-		
	ed(manufacturer/country)		GETRAG/GERMANY		
Manual 6-spe	ed(manufacturer/country)				
	nanufacturer/country)	AISIN A.W./JAPAN	AISIN A.W./JAPAN		
Automatic or	verdrive(manufecturer/country)				
Manual	Transmission/Transaxle		6		
Number of fo	orward speeds	<u> </u>			
Number of k	ist		3.827		
Number of R	1st 2nd	-	3.827 2.360		
	1st 2nd 3rd		3.827 2.360 1.685		
Number of fo Gear ratios	1st 2nd 3rd 4th		3.827 2.360 1.685 1.312		
Gear	1st 2nd 3rd 4th 5th		3.827 2.360 1.685 1.312 1.000		
Gear	1st 2nd 3rd 4th 5th		3.827 2.360 1.685 1.312		
Gear ratios	1st 2nd 3rd 4th 5th 6th Reverse		3.827 2.360 1.685 1.312 1.000 0.793 3.280		
Gear ratios Synchronous	1st 2nd 3rd 4th 5th 6th Reverse s meshing(specify gears)		3.827 2.360 1.685 1.312 1.000 0.793		
Gear ratios Synchronous Shift lever to	1st 2nd 3rd 4th 5th 6th Reverse s meshing(specify gears)		3.827 2.360 1.685 1.312 1.000 0.793 3.280 All including reverse Floor		
Gear ratios Synchronous Shift lever to	1st 2nd 3rd 4th 5th 6th Reverse s meshing(specify gears) ocation mat*1. & mass kg(1bs)*		3.827 2.360 1.685 1.312 1.000 0.793 3.280 All including reverse Floor Aluminum die cast, 51(Dry)		
Gear ratios Synchronous Shift lever to	1st 2nd 3rd 4th 5th 6th Reverse s meshing(specify gears)		3.827 2.360 1.685 1.312 1.000 0.793 3.280 All including reverse Floor		

Clusten ( P	vianual 110	insmission)		AISIN SEIKI
Clutch man			_ <del>_</del>	Single dry plate, Diaphragm
Clutch type	(dry, wet;single	, multiple disc)		
Linkage(hy	draulic, cable,	rod, lever, other)		Hydraulic
	effort(nom.	Depressed		140
spring load	)N(lbs)	Released		100
Assist(spri	ng, power/perce	nt, nominal)	_	20
	ure plate spring			Diaphragm spring
			_	10400
TOTAL SPICE	otal spring load(nominal) N (lbs) Facing mfgr. & material coding		_	AKEBONO BRAKE
		terial & construction	_	Semi-mould
	Rivets per		_	32
		inside dia.(nominal)		250 x 150
<b>6</b> 4 - 1				314
facing	Clutch facing Thickness(pressure plate side/fly wheel side)  Rivet depth(pressure plate side/fly wheel side)  Engagement cushion method		-	4.0
			_	1.6/1.6
			_	Wave spring segments
Galagge be			-	Ball bearing with permanent lubrication
Release bearing type & method lub.  Torsional damping method, springs, hysteresis		_	Dual moss flywheel	

<sup>\*</sup>Includes shift linkage, lubricant, and clutch housing. If other specify.

Vehicle Line	TOYOTA	SUPRA				
Model Year	1998	lssued _	Aug.,	1997	Revised(+)	

### METRIC(U.S. Customary)

Engine Description Engine Code		2JZ-GE	2JZ-GTE		
Automatic *	Transmission/Transaxle				
Trade Name		A340E			
Type and speci	al features(describe)	2-mode, 4-speed electronically con train with lock-up clutch torque co			
Shift mechanic	s				
	Location(column, floor, other)				
Gear selector	Ltr./No. designation(e.g. PRND21)				
	Shift interlock(yes, no, describe)				
-	1st	2.804			
	2nd	1.531			
Gear	3rd	1.000			
ratios	4th	0.705			
	Reverse	2.393			
	Final drive ratio				
Max.upshift veh	icle speed-drive range km/h(mph)		<u> </u>		
Max.upshift er	igine speed RPM				
Max. kickdow	n speed-drive range km/h(mph)				
Min. overdrive	speed km/h(mph)				
_	Туре	N.A.	<b>←</b>		
	Torus design	N.A.	<b>4-</b>		
_	Number of elements	3 elements	4-		
Torque converter	Max. ratio at stall	1.9	2.0		
	Type of cooling(air, liquid)	Liquid	· · · · · · · · · · · · · · · · · · ·		
	Nominal diameter	254	272		
<del></del>	Capacity factor "k"				
Pump type					
Lubricant	Capacity refill L(pt.)				
	Type recommended	ATF "TYPE T-IV"	ATF "TYPE T-W"		
	pt.,N.A.,internal,external,eir,liquid)	_			
Transmission	mass kg(lbs) & case material**	Aluminum die cast	Aluminum die cast		
All Wheel	/4 Wheel Drive				
	type(part-time, full-time, 2/4 shift mechanical, elect.,chain/gear,etc.)	_	<u>-</u>		
	Manufacturer and model	_			
Transfer case	Type and location	_	-		
Low-range ger	er ratio	_	-		
<del></del>	nect(describe)	_	-		
Center	Type(bevel, planetary, w or w/o viscous bias, torsen, etc.)	-	_		
differential			1		

Torque split(% front/rear)

<sup>\*</sup> Input speed + √ torque
\*\*Dry weight including torque converter. If other, specify.

Ring gear

TOYOTA SUPRA Vehicle Line Aug., 1997 1998 Revised(+) Model Year

### METRIC(U.S. Customary)

Engine Description Engine Code 2JZ-GTE 2JZ-GE Axle Ratio and Tooth Combinations (See 'Power Teams' for faxle ratio usage) M/T=3.133, A/T=3.7694.083 Axle ratio(or overall top gear ratio) M/T=222.0, A/T=205.0205.0 Ring gear o.d. M/T=15, A/T=1312 Pinion No. of teath M/T = 47, A/T = 49

49

#### Rear Axie Unit

Description			Under floor integral		
Limited slip	differenti	al(type)	Opt.=TORSEN M/T=Std.(TORSEN), A/T=Opt.(TORS		
Chinese on P	Туре		Hypoid		
Drive pinion		Offset	28.00	M/T=33.00, $A/T=28.00$	
No.of differen	ntial pinis		Std.=2, Opt.=8	M/T=6, $A/T(Std.=2, Opt.=8)$	
	Adjustment(shim, etc.)		Shim/Shim		
Pinion/differ	ential	Bearing adjustment	Collapsible tube/shim		
Driving whee	l bearing	(type)	Double row angular contact	ball bearing	
		city L(pt.)	1.35	·	
Lubricant	Type recommended		API GL-5		

#### Propeller Shaft - Rear Wheel Drive

Manufacturer Type(straight tube,tube-in-tube, internal-external damper, etc.)		TOYOTA MOTOR CORPORATI Front=Straight tube, Rear=Stra	ION night tube			
	Manual	4-speed transmi:	ssion	-		
Outer	Manual 5-speed transmission			-		
diam.x length*x	Manual	6-speed transmi	ssion	-	Front=60.5 x 538 Rear =60.5 x 583	
wall thickness .	Overdriv	e _		-		
	Automatic transmission			Front=60.5 x 446 Rear =60.5 x 569	Front=60.5 x 495 Rear =60.5 x 606	
Inter-	Type(pla	in, anti-friction	)	Ball bearing	<u>,</u>	
mediate bearing		tion(fitting, pres		Prepack		
<u> </u>	Туре			Involute spline		
Slip	Number	of teeth		23		
yoke	Spline o	.d.		30.48	29.07	
	<del>                                     </del>	Front		No.1, 2 Joint=TOYOTA MOTOR CORPORATION		
	Make ar	nd mfg. no.	Rear	No.3 Joint=TOYO		
	Number	used		3		
Universal	Type (b	all and trunnion	, cross)	No.1. 2 joint=Hook's joint No.3 joint=Flexible coupling		
joints	Rear at	tach(u-bolt, clar	np, etc)	Bolts and nuts		
		Type(plain, anti-friction)		Anti-friction (Needle roller bearing)		
	Bearing	Lubrication (fitting, prepack)		Prepack		
	Drive taken through(torque tube, erms or springs)		Control arm			
Torque taken arms or sprii		orque tube.		Control arm		

<sup>\*</sup>Centerline to centerline of universal joints, or to centerline of rear attachment.

Vehicle Line TOYOTA SUPRA

Model Year 1998 Issued Aug., 1997 Revised(+)

#### METRIC(U.S. Customary)

Model Code/Description And/Or Engine Code/Description 2JZ-GE 2JZ-GTE

### Suspension - General Including Electronic Controls

	Stan	dard/optional/not avail.	N.A.		
	Manual/automatic control		<b>-</b>		
	Type(air/hydraulic)		-		
ar	Prin	nary/assist spring	-		
reling	Rear	only/4 wheel leveling			
	Sing	le/dual rate spring	-		
	Sing	le/dual ride heights	-		
	Prov	rision for jacking	-		
	Stan	dard/option/not avail.	N.A.		
	Manual/automatic control		-		
	Number of damping rates		-		
hock bsorber	Type of actuation(manual/ electric motor/air, etc.)		-		
amping ontrols	S	Lateral acceleration	<del>-</del>		
	ļ	Deceleration	-		
	ő	Acceleration	_		
	3	Road surface			
ihock	Тур	9	Tube, double acting		
nock bsorber	Mak	(8	KAYABA/TOKIKO	M/T=KAYABA, A/T=TOKIKO	
front &	Pist	on diameter	30.0	M/T=30, AT=40	
ear)	Rod	dismeter	12.5		

#### Suspension - Front

Type and description		Double wishbone		
	Full jounce(define load condition)	80		
Travel	Full rebound	95		
	Type(coil,leaf,other & material)	Coil, alloy steel		
	Insulators(type & material)	Top only, rubber		
Spring	Size(Leaf:length & width;Coil:design height & i.d.;Bar:length & diameter)	Left=299 x 96, Right=297 x 96	M/T(Left=304 x 96, Right=302 x 96). A/T(Left=302 x 96, Right=299 x 96)	
	Spring rate[N/mm (lb./in.)]	65 .	71	
	Rate at wheel[N/mm (ib./in.)]	27	. 29	
<b>.</b>	Type(link, linkless, frameless)	Link, frameless		
Stabilizer	Material & O.D. ber/tube, wall thickness	Steel, 29	Steel, 30	

#### Suspension - Rear

Type and description			Double wishbone		
Traval	Full jounce(define load condition)		85		
i ravai	Fúll rebound		100		
	Type(	coil, leaf, other & material)	Coil, alloy steel		
	Size(Leaf:length & width;Coil:design height & i.d.;Bar:lenght & diameter)		326.5 x 98.5	$M/T=337.5 \times 98.5$ , A/T=333 x 98.5	
•!	Spring rate[N/mm (lb./in.)]		32		
Spring	Rate at wheel[N/mm (lb./in.)]		22		
	Insulators(type & material)		Top only, rubber		
	If	No of leaves	N.A.		
	leaf	Shackle(comp.or tens.)	N.A.		
Stabilizar	Type(link, linkless, frameless)		Link, frameless		
	Material & O.D. bar/tube,well thickness		Steel, 19.1		
Track bar(ty	pe)		N.A.		

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METRIC(U.\$. Customary)

Model Code/Description And/Or Engine Code/Description

2JZ-GE	2JZ-GTE

escription				Four-wheel hydraulic actuation		
lanufacturer and	d F	ront(disc or dru	m)	AKEBONO, disc, std.	SUMITOMO, disc, std.	
brake type(std.,opt.,n.s.) Rear(disc or drum)			n)	AISIN disc, std.	SUMITOMO, disc, std.	
alving type(pr	roportion,	delay, metering,	other)	P & B valve		
ower brake(st				Std.		
ooster type(re	mote, inte	gral, vac., hyd.,	etc.)	Integral, vacuum		
		line, pump, etc.)		Inline		
/acuum	Reservoir	(volume in.1)		N.A.		
	Pump-type(	elec.gear driven,belt d	riven)	N.A		
rection	Operational speed range			N.A.	All	
ssist	Type(engi	ne or brake interve	ntion)		Engine	
	Front/re	ar(std., opt., n.a	.)	Front and rear, std.		
	Manufac	turer		DENSO		
	Type(ele	ctranic, mech.)		Electronic		
	Number	sensors or circui	ts	4		
Anti-lock Jevice		inti-lock hydraulic		3	4	
		or add-on system	1	Add-on -		
	Yaw con	trol(yes, no)		Yes		
	Hydraulic power source (elec., vac. mtr., pwr, strg.)			Electric motor		
Effective area cm²(in.²) *				288	336	
Gross Lining	area cm³ (	in.1) **(F/R)		241/132	262/143	
Swept area cm				1651/1246	1947/1674	
	Outer working diameter F/R		F/R	294/305	320/321	
	Inner wo	Inner working diameter F/R		184/231	201/223	
Rotor	Thickne	ss	F/R	32/16	30/16	
	Material &	type(vented/solid)	F/R	Cast iron, vented/vented		
	Diamete	er & width	F/R			
Drum	Type an	d material	F/R		42.85 x 4/40.45 x 2	
Wheel cylinde	r bore			44.45 x 2/42.86	26.99/16.6/26.99/12.0	
Master cylind	ler 8d	ore/stroke	F/R	25.4/18.0/25.4/12.0	26.99/16.6/26.99/12.0	
Pedal arc rati				3.27		
Line pressure a	at 445 N(100	lb.)pedal load[kP		10500	9850	
Lining clears	nce ·	<del></del>	F/R	Self adjust/Self adjust		
		Bonded or riveted (riv	vets/seg.)	Bonded		
		Rivet size		-	AL NICCINEO AKERONO	
		Manufacturer		SUMITOMO, AISIN CHEMICAL, NISSINBO, AKEBONO		
	Front	Lining code****				
	wheel	Material		Molded resin	117 x 59.5 x 12	
		**** Primary or o		123 x 55 x 11	117 x 59.5 x 12	
	-	Size Secondary or in-board		123 x 55 x 11	5.0	
Brake lining	<u></u>	Shoe thickness(n		6.0	J.0	
-	1	Bonded or riveted(ri	vets/seg.)	Bonded SUMITOMO, AISIN CHEMIC	CAL MISSINBO AKEBONO	
		Menufacturer		<del></del>	JAL, MISSINGO, AMEDONO	
		Lining code***	··	-		
	Rear wheel	Material		Molded resin	80 x 49 x 11	
	WITH	**** Primary or out-board		104 x 37 x 10	80 x 49 x 11	
		Size   Secondary o		104 x 37 x 10	1 90 - 40 - 11	

<sup>\*</sup>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 Pianer 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.

Vehicle Line TOYOTA SUPRA

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METRIC(U.S. Customary)

Model	Code/Description	And/Or
Engine	Code/Description	l

2JZ-GE	2JZ-GTE

#### Tires And Wheels(Standard)

	Size(service description) Type(bias, radial, steel, nylon, etc.)		Front=225/50R16, Rear=245/45R16	Front=235/45ZR17, Rear=255/40ZR17	
Tires			Radial, steel & nylon		
	Inflation pres- sure(cold) for		230		
	recommended max.vehicle load	Rear kPa(psi)	230		
	Rev./mile-at 70 km/h(45 mph)		Front=843, Rear=851	Front=821, Rear=832	
	Type & material		Aluminum		
	Rim(size & flange type)		Front=16 x 8JJ, Rear=16 x 9JJ	Front=17 x 8JJ, Rear=17 x 9.5JJ	
	Wheel offse	t	50		
Vheels		Type(bolt or stud & nut)	Nut		
	Attachment	Circle diameter	114.3		
		Number & size	5-M12 x 1.5		
Spare	Tire and wheel		Tire: T145/70R17 Wheel:17 x 4T		
	Storage position & location (describe)		Flat in trunk room		

#### Tires And Wheels(Optional)

THES AND THOUSE (PARTIES)		
Tire size(service description)	N.A.	
Type(bias, radial, steel, nylon, etc.)	-	
Wheel(type & material)	<del>-</del>	
Rim(size, flange type and offset)	-	
Tire size(service description)	<u> </u>	
Type(bias, radial, steel, nylon, etc.)	_	
Wheel(type & material)	-	
Rim(size, flange type and offset)	-	
Tire size(service description)	-	
Type(bias, radial, steel, nylon, etc.)		
Wheel(type & material)	-	
Rim(size, flange type and offset)		
Tire size(service description)		
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		Hand operated	
Location of control		Floor	
Operates on		Drums built in rear disc rotor	
	Type(internal or external)	Internal	
If separate	Orum diameter	190.0	
from service brakes	Lining size(length x width x thickness)	181 x 25 x 2.5	

Vehicle Line TOYOTA SUPRA

Model Year 1998 Issued Aug., 1997 Revised(-)

METRIC(U.S. Customary)

2JZ-GTE Model Code/Description And/Or 2JZ-GE Engine Code/Description Steering N.A. Manual(std., opt., n.a.) Std. Power(std., opt., n.e.) Std. Speed-sensitive(std., opt., n.s.) N.A. 4-wheel steering(std., opt., n.s.) Tilt Type Adjustable TOYOTA MOTOR CORPORATION steering wheel/column (tilt, telescope, other) Manufacturer Std. (std., opt., n.a.) N.A Manual Wheel diameter\*\* (W9)SAE J1100 370 Power Wall to wall(I.& r.) 11.5 Outside Curb to curb (1.& r.) 10.9 Turning front diameter 6.2 Wall to wall(I.& r.) Inside m(ft.) Curb to curb(1.& r.) 6.6 6 8 Scrub Radius\* Manufacturer Gear Gear Manual Ratios Overall No. wheel turns(stop to stop) Integral, hudraulic Type(coaxial, elec., hyd., etc.) TOYOTA MOTOR CORPORATION Manufacturer Rack & pinion. Type Gear Gear Power Ratios 17.5 Overail V-ribbed belt Pump(drive) No. wheel turns(stop to stop) Tie-rod directly attached torack end Туре Location(front or rear of wheels, other) Front of wheels Linkage Tie rods(one or two) 9°25' 9°15' Inclination at camber (deg.) Ball joint Upper Stearing Bearings Ball joint Lower axis (type) N.A. Thrust Ball joint Steering spindle/knuckle & joint type

"See Page 23.

<sup>\*</sup>The horizontal distance in the front elevation between wheel centerline and kingpin(ball joint) axis at ground

Vehicle Line _	TOYOTA SU	JPRA			
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### METRIC(U.S. Customary)

Model Code/Description And/Or Engine Code/Description

2JZ-GE	2JZ-GTE	

#### Wheel Alignment

		Caster(deg.)	3°20'±45'	3°25′±45′
Service checking	Service	Camber(deg.)	-15' ±45'	-25' ±45'
	O, to Sitting	Tos-in outside track-mm(in.)	0±2	0±2
ront		Caster(deg.)	3°20' ± 45'	3°30′±45′
wheel at Service curb mass reset*	Service reset*	Camber(deg.)	-15' ±45'	-25' ±45'
wt.)		Toe-in-mm(in.)	0±2	0±2
	Periodic	Caster(deg.)	N.A.	
	M.V. in-	Camber (deg.)	N.A.	
	spection	Toe-in-mm(in.)	N.A.	
	Service	Camber(deg.)	-1°25'±45'	-1°25′±45′
	checking	Toe-in outside track-mm(in.)	3±2	3±2
Rear vheel at	Service	Camber(deg.)	-1°25' ±45'	-1°25′±45′
urb mass	reset*	Toe-in-mm(in.)	3±2	3±2
wt.)	Periodic	Camber(deg.)	N.A.	
	M.V. in- spection	Toe-in-mm(in.)	N.A.	

<sup>\*</sup>Indicates pre-set,adjustable,trend set or other.

#### Electrical - Instruments and Equipment

Speed-	Type(analog	g,digital, std., opt.)	Analog	
ometer	Trip odometer(std., opt., n.a.)		Std.	
	Standard, optional, not available		N.A	
Head-up display	Туре	Secondary, opto-electronic	-	
	Speedometer	Digital	_	
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	-	
	Brightness control	Day/night mode, adjustable	-	***
EGR mainten	ance indicate	)r	No	
Charge	Туре	,	Telltale lamp	
indicator	Warning de	vice(light, audible)	Light	
Temperature	Type		Electric gauge	
indicator	Warning de	vice(light, audible)	N.A	
Oil pressure	Туре		Telltale lamp	•
indicator	Warning de	vice(light, audible)	Light	
Fuel	Туре		Electric gauge	
indicator	Warning device(light, audible)		Light	
•	Type(stand	ard)	Electric 2 speed with adjustable intermittent and mist operation	
Wind- shield	Type(option	nai)	*	
wiper	Blade lengt	h .	LH=525, RH=475	
	Swept area		6771	
Wind-	Type(stand	ard)	Electric motor	
shield	Type(option		<del></del>	
washer	Fluid level in	dicator (light, audible)	No	
Rear window	wiper,wiper,	/washer(std.,opt.,n.a.)	Std.	
Horn	Туре		Electric vibration	
norn	Number us	ed	2	
Other			-	

TOYOTA SUPRA Vehicle Line \_ 1998 Issued Aug., 1997 Revised(+) Model Year \_

Engine Code/Description		n	2JZ-GE	2JZ-GTE			
	- Supply	-	•				
. Tecti icai	Manufactur		MATSUSHITA				
	Model, std.		M/T=75D26L, A/T=80D26L				
}	Voltage		12V, 90				
		*F cold crank	M/T=490, A/T=582				
attery		serve capacity	M/T=123, A/T=133				
ļ			65				
	Amps/hrs20hr. rete		Left front of engine compartment				
<del> </del>	Manufactu	rer	DENSO				
		e/max. rpm)	12V, 80A	M/T=12V, 90A, A/T=12V, 100A			
Alternator	Ratio(alt.c		1:2.52	M/T=1:2.52, A/T=1:2.32			
		dle(rpm, park)					
		ype & rating)	-				
Regulator	Туре		IC regulator				
	- Startin	ng System	<del></del>				
**	Manufactu		DENSO				
		ain*C (*F)	-				
Motor		ing kw(hp)	1.4				
			Solenoid shift				
Motor	Pinion engages		Front				
driv <del>e</del>	from(fron						
	from(fron						
	from(fron	t, rear) on System		N.A.			
	from(from	on System	Std. N.A.	N.A. TDI			
Electrica	from(fron	t, rear) on System o(std., opt., n.a.) o(fy)	Std.				
Electrica Type	from(from	t, rear) on System o(std., opt., n.a.) o(fy)	Std. N.A.				
Electrica Type	from(from  I - Ignitic  Electronic Other(spe Manufacti Model	c, rear) on System c(std., opt., n.a.) cify) urer	Std. N.A. DENSO				
Electrica Type	from(fron  I - Ignitio  Electronic  Other(spec	t, rear) on System o(std., opt., n.a.) o(fy)	Std. N.A. DENSO N.A. 0				
Electrica Type	from(from  I - Ignitic  Electronic Other(spe Manufacti Model	c(std., opt., n.a.) cify) urer  Engine stopped-A Engine idling-A	Std. N.A. DENSO N.A. 0 0.8 DENSO, NGK SPARK PLUG	TDI 0.7			
Electrica Type	from(from  I - Ignitio  Electronic Other(spector) Manufactor Model Current	c(std., opt., n.a.) cify) urer  Engine stopped-A Engine idling-A	Std. N.A. DENSO N.A. 0	TDI			
Electrica Type Coil	from(fron  I - Ignitic  Electronic Other(spectronic Manufacti Model Current Manufacti	c(std., opt., n.a.) cify) urer  Engine stopped-A Engine idling-A	Std. N.A. DENSO N.A. 0 0.8 DENSO, NGK SPARK PLUG	TDI 0.7			
Electrical Type Coil	from(fron  I - Ignitic  Electronic Other(spe Manufacti Model Current  Manufacti Model Thread(m	c(std., opt., n.a.) cify) urer  Engine stopped-A Engine idling-A	Std. N.A. DENSO N.A. 0 0.8 DENSO, NGK SPARK PLUG DENSO=PK16TR11, NGK=BKR5EKPB11	TDI 0.7			
Electrical Type Coil	from(fron  I - Ignitic  Electronic Other(spe Manufacti Model Current  Manufacti Model Thread(m	c(std., opt., n.a.) c(std., opt., n.a.) c(fy) urer  Engine stopped-A Engine idling-A urer	Std. N.A. DENSO N.A. 0 0.8 DENSO, NGK SPARK PLUG DENSO=PK16TR11, NGK=BKR5EKPB11 14	TDI 0.7			
Electrical Type Coil	From(from  I - Ignitic  Electronic Other(spe Manufacti Model Current  Manufacti Model Thread(n Tightenin Gap	c(std., opt., n.a.) c(std., opt., n.a.) c(fy) urer  Engine stopped-A Engine idling-A urer	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1	TDI 0.7			
Electrical Type Coil Spark plug	From(from  I - Ignitic  Electronic Other(spe Manufacti Model Current  Manufacti Model Thread(n Tightenin Gap	Engine stopped-A Engine idling-A urar  in the stopped in the stopp	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1  1  N.A.	TDI 0.7			
Electrica	From(from  I - Ignitic  Electronic Other(spe Manufacti Model Current  Manufacti Model Thread(m Tightenin Gap Number p	Engine stopped-A Engine idling-A urar  in the stopped in the stopp	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1	TDI 0.7			
Electrical Type Coil Spark plug Distributor	From(from  I - Ignitic  Electronic Other(speriment) Manufacte Model Current Manufacte Model Thread(m Tightenin Gap Number p Manufacte Model	Engine stopped-A Engine idling-A urer  mm) g torque N·m(lbft.) per cylinder	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1  1  N.A.	TDI 0.7			
Electrical Type Coil Spark plug Distributor	from(from  I - Ignitic  Electronic Other(spee Manufacts Model Current  Manufacts Model Thread(n Tightenin Gap Number p Manufacts Model	Engine stopped-A Engine idling-A urer  mm) g torque N·m(lbft.) per cylinder	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1  1  N.A.	TDI 0.7			
Electrical Type Coil Spark plug Distributor	From(from Flectronic Other(spee Manufacts Model Current Manufacts Model Thread(m Tightenin Gap Number Manufacts Model	Engine stopped-A Engine idling-A urer  mm) og torque N·m(lbft.) per cylinder ression	Std.  N.A.  DENSO  N.A.  0  0.8  DENSO, NGK SPARK PLUG  DENSO=PK16TR11, NGK=BKR5EKPB11  14  17.7  1.1  1  N.A.  N.A.	DENSO=PK20R11, NGK=BKR6EP1			

Vehicle Line TOYOTA SUPRA Model Year 1998 Issued Aug., 1997 Revised(+)

METRIC(	U.S. Custo	mary)				
Model Code/	Description		All models			
Body			,			
Structure			Unitized body structure			
Bumper system front-rear			Both=Urethane fascia, energy absorber and reinforcement			
Anti-corrosion treatment			Extensive use of galvanealed steel sheet, PVC sealer, full dip pretreatment, cathodic ED, PVC undercoat and anti-chipping coat(anti-chipping PVC coating, soft-chipping primer)			
Body - M	iscellaneou	s Information				
Type of finish(	lacquer, ename	ol. other)	Enamel			
	Material & m	438	Aluminum alloy, 12kg			
Hood	Hinge locatio	n(front, rear)	Rear			
11000		balance, prop)	Prop			
	Release contro	(internal, external)	Internal			
T	Material & m		•			
Trunk lid	Type(counter	balance, other)				
	Internal release o	ontrol(elec., mech., n.a.)	•			
Linksh	Material & n	655	Steel, 25kg			
Hatch- back lid	<b>—</b>	balance, other)	Gas props			
		ontroi(elec., mech., n.e.)	Mech.			
•	Material & m					
Tailgate	Type(drop, li					
		ontrol(elec., mech., n.a.)	-			
Vent window of friction, pivot,		Front	N.A.			
	<del></del>	Rear	N.A.			
Window regulation of the Company of	stor type lex drive, etc.)	Front	Cable			
(00010) 1000	0.110, 0.0.7	Rear Front	N.A.			
Seat cushion to (e.g., 60/40 bu		Rear	Separate, spring + panel + form pad			
wire, foam, at		3rd seat	Bench, wire + form pad			
	·	Front	Spring + form pad			
Seat back type (e.g., 60/40, bit		Rear	Form pad			
wire, foam, et		3rd seat				
Frame		·				
	ription(separate , partially-uniti		Unitized			

Vehicle Line _	TOYOTA SUPRA			
Model Year	1998 Issued	Aug., 1997	Revised(+)	

METRIC(U.S. Customary)

111211110/0101010	
Model Code/Description	All models

### Restraint System

Seating Position				Left	Center	Right	
	. Type &		First seat	Lap and shoulder belt with ELR, Std.	N.A.	Lap and shoulder belt with ELR/ALR, Std	
description (lap & shoulder belt, lap belt, etc.)  Standard/optional			Second seat	Lap and shoulder belt with ELR/ALR. Std.	Ņ.A.	Lap and shoulder belt with ELR/ALR, Sto	
			Third seat	N.A.	N.A.	N.A.	
Type & description		<del>-</del>	First seat	Air bag Std.	N.A.	Air bag Std.	
Passive knee bolster, r	2-point belt, fixed belt, knee bolster, manual-		Second seat	N.A.	N.A.	N.A.	
	Standard/optional		Third seat	N.A.	N.A.	N.A.	
Glass		SAE Ref.No.				-	
Windshield ( surface area	glass exposed cm²(in.¹)	S1	8980				
Side glass ex area cm²(in	kposed surface .1) -total 2-sides	S2	. 7010				
Backlight gi surface area	ass exposed cm²(in.¹)	S3	8480				
Total glass e area cm*(in	exposed surface	\$4	24470				
Windshield	glass(type/thickness)		Curve	ed, laminated, 4.7			
Side glass(type/thickness)			Curved, tempered, door=5, other=3.1				
Backlight g	lass(type/thickness)		Curve	ed, tempered, 3.5	<u> </u>		
Tinted(yes/	no, location)		Yes,	windshield glass			
Solar contro coated/batc	ol(yes/no, hed, location)		Yes,	batched, windshield, side	and backlight glasses	3 	

### Headlamps

Description(sealed beam, halogen, replaceable bulb, etc.)	Replaceable bulb, halogen	
Shape	Aerodynamic-flush mounted	
Lo-beam type(2A1, 2B1, 2C1, etc.)	N.A.	
Quentity	2	
Hi-beam type(1A1, 2A1, 1C1, 2C1, etc.)	N.A.	
Quantity	2	

Vehicle Line \_\_TOYOTA SUPRA Model Year 1998 Issued Aug., 1997 Revised(+)

	.S. Customary)	All models			
ngine Code/I	Description	All models			
limate Co	ntrol System				
ir conditioning	g(std., opt., man., auto.)	Std.=manual, auto.			
<del> </del>	Туре	Multi flow type .			
Condenser	Eff. face area(sq. mm.)	231210			
	Fins per inch	Pitch=3.75mm			
	Туре	Drawn cup type			
vaporator	Eff. face area(sq. mm.)	61509			
E 48001 0101	Fins per inch	Pitch=4.5mm			
	Material	Aluminum			
legter core	Eff. face area(sq. mm.)	31200			
	Fins per inch	Pitch=2.2mm			
	Туре	10PA17H			
	Displacement(cc.)	170			
Compressor	Menufacturer	DENSO			
	A/C pulley ratio	1.115			
	Туре	N.A.			
Accumulator	Height(mm.)				
, 1000	Diameter(mm.)				
	Туре	Normal			
Receiver	Height(mm.)	187			
	Diameter(mm.)	60			
Refrigerant C	ontrol(CCOT, TVS, etc.)				
Heater water		Yes			
	R-12, R-134a, etc.)	R-134a			
Charge level(		700g			
	ockout switch(yes/no)				
	rottle cutout switch(yes/no)				

Vehicle Line TOYOTA SUPRA

Model Year 1998 Issued Aug., 1997 Revised(\*)

### METRIC(U.S. Customary)

Others 2JZ-GE, Normal roof Model Code/Description Convenience Equipment(standard, optional, n.a.) Std. digital Clock(digital, analog) N.A. Compass/thermometer Std. floor Console(floor, overhead) N.A. Defroster, electric windshield Electric backlight Defroster, electric backlight Diagnostic monitor(integrated, individual) Instrument cluster(list instruments) N.A. Keyless entry Tripminder(avg.spd.,fuei) Electronic Voice alert(list items) Other Remote control Fuel door lock(remote, key, electric) Auto head on/off delay, dimming N.A. N.A. Cornering Std. Courtesy(map, reading) N.A.(Door lock), Std.(ignition) Door lock, ignition Engine compartment Std. Fog Lamps Std. Glove compartment Std. Trunk Illuminated entry system N.A. (list lamps, activation) Other Manual Day/night(auto, man.) Remote, power Remote, power, heated L.H.(remote, power, heated) Remote, power Remote, power, heated Mirrors R.H.(convex, remote, power, heated) RH only, no illumination Visor vanity(RH/LH, illuminated) Navigation system(describe) Parking brake-auto release(warning light)

Vehicle Line	TOYOTA SU	JPRA		
Model Year	1998	Issued _	Aug., 1997	Revised(+)

METRIC(U.S. Customary)

Model Code/Description		ion	All models
Convenien	ce Equ	ipment(standard	optional,n.a.')
		(release, pull down)	-
		cks(manual, automatic, system)	Manual
		2-4-6 way, etc.	N.A., 4 way (leather, LH)
		Reclining(R.H., L.H.)	N.A., LH (leather)
D		Memory(R.H.,L.H.,preset reclin	
Power equipment	Seats	Support(lumbar, hip, thigh, et	
. ,	1	Heated(R.H., L.H., other)	Opt.(leather):LH and RH
	ļ. ·		901(10011101)1211
	Side wi	ndows	
	Vent wi		N.A.
	Rear w		N.A.
	11001 11		N.A.
	Antennal	location, whip, w/shield, power)	Std.=Auto-antenna, Opt.=Auto-antenna at RH quarter and rear glass-antenna
	Standard		AM/FM, ETR, CD-6 speakers
Radio systems	Optional	AM,FM,stereo,tape, compact disc,graphic equalize theft deterrent,radio prep packa headphone jacks,etc.	
	Speaker(number, location)		Std.=6, front doors + quarter trims + inst-panel tweeters Opt.=7, front doors + quarter trims + inst-panel tweeters + woofer on deck
Roof: open ai	r or fixed(	flip-up, sliding, "T" )	Fixed or Detachable (sport roof)
Speed control	device		Std.
Speed warnin	g device(li	ight, buzzer, etc.)	N.A.
Tachometer (	pm)		8000
Telephone sys	stern (desc	ribe)	N.A
Theft deterred	nt system		Std.
Trailer T	owing		
Towing capat		Yes/N	o No
Engine/trans		·	
Tow class ( I			· · · · · · · · · · · · · · · · · · ·
Max. gross ti			
Max. trailer			
Towing package available Yes/No		Die Yes/N	No No

<sup>\*</sup> Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

Vehicle Line	TOYOTA SU				
Model Year	1998	Issued	Aug., 1997	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.

Nodel Code/Description	SAE Ref. No.	All models	·
Vidth	NO.		
read(front)	W101	1520	
read(rear)	W 102	1525	
ehicle width	W103	1810	
ody width at Sg RP(front)	W117	1784	. –
ehicle width(front doors open)	W120	3762	
ehicle width(rear doors open)	W121	No rear doors	<del></del> -
umble-home(degrees)	W122	33.5°	
utside mirror width	W410	1987.5	
_ength			
Vheelbase	L101	2550	
/ehicle length	L103	4515	
verhang(front)	L104	950	
)verhang(rear)	L105	1015	
Jpper structure length	L123	2565	
Rear wheel C/L "X" coordinate	L127	2550	
Height**			
Passanger distribution(front/rear)	PD1,2,3	* *	
Frunk/cargo load		• •	
Vehicle height	H101	1265	
Cowl point to ground	H114	890	
Deck point to ground	H138	975	
Rocker panel-front to ground	H112	185	
Rocker panel-rear to ground	H111	180	
Windshield slope angle(degrees)	H122	65.0°	
Backlight slope angle(degrees)	H121	75. <u>5</u> °	
Ground Clearance**			
Front bumper to ground	H102	160	
Rear bumper to ground	H104	280	
Bumper to ground front at curb mass(wt.)	H103	170	
Bumper to ground rear at curb mass(wt.)	H105	290	
Angle of approach(degrees)	H106	13°	
Angle of departure(degrees)	H107	17°	
Ramp breakover angle(degrees)	H147	12°	
Axle differential to ground(front/resr)	H153	165	
Min.running ground clearance	H156	120	
Location of min. run. grd. clear.		Exhaust pipe	

<sup>\*\*</sup>All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

MVMA Specification	ns	Vehicle Line TOYOTA SUPRA
METRIC(U.S.Customary)		Model Year 1998 Issued Aug., 1997 Revised(+)
Vehicle Dimensions See	Key Sh	eets for definitions
Model Code/Description	SAE	All models
Front Compartment	Ref. No.	
SgRP front, "X" coordinate	L31	1578
Effective head room	H61	Standard roof=953.2, Sport roof=946.8
Max. eff. leg room(accelerator)	L34	1117
SgRP to heel point	H30	161.5
SgRP to heel point	L53	861.2
Back angle(degrees)	L40	25
Hip angle(degrees)	L42	99.2
Knee angle(degrees)	L44	141.2
Foot engle(degrees)	L46	87
Design H-point front travel	L17	238.2
Normal driving & riding seat track trvl.	L23	238.2
Shoulder room	W3	1376.3
Hip room	W5	1440.7
•Upper body opening to ground	H50	1154.2
Steering wheel maximum diameter*	W9	370
Steering wheel angle(degrees)	H18	17.0°
Accel, heel pt. to steer, whi, ontr	LII	484
Accel, heel pt. to steer, whi, ontr	H 17	562
Undepressed floor covering thickness	H67	21.0
Rear Compartment		Front Compartment Interior Dimensions Are Measured With The Seating Reference Point(SgRP)mm Forward Andmm Upward of Rearmost Position.
SgRP point couple distance	L50	517
Effective head room	H63	834.5
Min. effective leg room	L.51	605.1
SgRP(second to heel)	H31	239.3
Knee clearance	L48	-213.2
Shoulder room	W4	1113.2
Hip room	W6	1080.0
-Upper body opening to ground	H51	1146.1
Back angle(degrees)	L41	27
Hip angle(degrees)	L43	70.8
Knee angle(degrees)	L45	45.1
Foot angle (degrees)	L47	97.8
Depressed floor covering thickness	H73	34.5
Luggage Compartment		
Usable luggage capacity L(cu. ft.)	V1	1 -
-Liftover height	H195	880

Vehicle class

Trunk/cargo index(cu. ft.)

Interior volume index including trunk/cargo(cu. ft.)\*\*

Standard roof=79.5, Sport roof=79.3

Mini-compact

10.1

<sup>\*</sup>See page 14.

\*\*See definition page 33.
All linear dimensions are in millimeters(inches) unless otherwise noted.
---EPA Loaded Vehicle Weight, Loading Conditions

RANANA Considiantia	Venicle Line _					
MVMA Specificatio	112	Model Year	1998	Issued Aug., 1997 Re	vised( · )	
METRIC(U.S.Customary) Vehicle Dimensions See	Key She	ets for definitions				
Model Code/Description	SAE			All models		
Station Wagon/MPV* -Third Seat	Ref. No.	4				
Seat facing direction	SD1					
SgRP couple distance	L85	-				
Shoulder room	W85	_				
Hip room	W86	-				
Effective leg room	L86	-				
Effective head room	H86	-				
SgRP to heel point	H87					
Knee clearance	<b>∟8</b> 7	_				
Back angle(degrees)	L88	<del>-</del>				
Hip angle(degrees)	L89	-				
Kinee angle(degrees)	L90	_	_			
Foot angle(degrees)	L91	-				
Station Wagon/MPV* - Ca						
Cargo length(open front)	L200				· · · · · · · · · · · · · · · · · · ·	
Cargo length(open second)	L201					
Cargo length(closed front)	L202	<del>-</del>				
Cargo length(closed second)	∟203	-				
Cargo length at belt(front)	L204					
Cargo length at belt(second)	L205					
Cargo width(wheelhouse)	W201	-				
Rear opening width at floor	W203	_		<u> </u>		
Opening width at belt	W 204					
Min.rear opening width above belt	W 205	-				
Cargo height	H201					
Rear opening height	H202	-				
••Tailgate to ground height	H250					
Front seat back to load floor height	H 197	-				
Cargo volume index m³(ft.²)	V2	-				
Hidden cergo volume index m³(ft.³)	V4	<del>-</del>				
Cargo volume index-rear of 2-seat	V10	_				
Cargo volume index*	V6	-				
Cargo width at floor*	W500					
Maximum cargo height*	H505					
Hatchback - Cargo Space						
Cargo length at front seatback height	L208	1048.8				
Cargo length at floor(front)	L209	1279.7			· · · · · · · · · · · · · · · · · · ·	
Cargo length at second seatback height	L210	716.2				
Cargo length at floor(second)	L211	950.2				
Front seatback to load floor height	H197	387.5				
Second seatback to load floor height	H198	307.3				
Cargo volume index m3(ft.1)	V3	502.2				

All linear dimensions are in millimeters(inches) unless otherwise noted. 
\*MPV-Multipurpose Vehicle
\*EPA Loaded Vehicle Weight, Loading Conditions

V4

V11

0

285.0

Hidden cargo volume index m³ (ft.1)

Cargo volume index-rear of 2-seet

Page 24

MVMA	\ Spe	Vehicle Line TOYOTA SUPRA  Model Year 1998 Issued Aug., 1997 Revised(•)
		Customary)
Model Cod Descriptio	le/	All models
Vehicle F	iducia	I Marks
Fiducial Mar Number	k	Define Coordinate Location
	+	
	ŀ	
	1	
Front(1)	1	
, ,		
	ļ	
	1	,
Front(2)	1	Center of front semi-circular knotch in rocker panel flange for front jack-up point
		for front jack-up point
Rear(1)	İ	<u>-</u>
	i	
		·
Rear(2)		Center of back-most semi-circular knotch in rocker panel flange for rear jack-up point
		tor road jack-up points
Note: Provid	de	
3 of 4 Fiducial Ma		
Locations		
	W21**	Standard roof = W6 + 89.4, sport roof = W6 + 90.4
	L54**	L15 + 30.5
Front	н81**	H9 + 71.5
	H163**	165
	1 H 103**	165
	1417722	Charles - W7 + 15 7 25 - W7 + 14 4
	W22**	Standardroof = W7 + 15.7, sport roof = W7 + 14.4  L29 + 30.5
Rear	H82**	H9 + 61.9
1100:	H 162**	165
	H164**	155

<sup>&</sup>quot;Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.
"'Reference - SAE Recommended Practice J1100-Motor Vehicle Dimensions.
All linear dimensions are in millimeters (inches) unless otherwise noted.
---EPA Loaded Vehicle Weight, Loading Conditions

Vehicle Line	TOYOTA SUPI				
Model Year	1998	Issued _	Aug., 1997	$Revised(\cdot)$	<del></del>

METRIC(U.S. Customary)

		Vehicle Mass(weight)					% PASS MASS DISTRIBUTION			
		CURI	CURB MASS, kg. (lb.)*		SHIPPING		Pass in Front		Pass in Rear	
	Model	Front	Rear	Total	MASS	ETWC**	Front	Rear	Front	Rea
Code		1715	1550	3265	3218.5	V	38	62	18	82
JZA80L-ALPVFA		1740	1585	3325	3278.5	V	38	62	18	82
JZA80L-AJPVFA		1885	1560	3445	3398.5	w	38	62	18	82
JZA80L-ALFVZA			1595	3505	3458.5	Х	38	62	18	82
JZA80L-AJFVZA		1910		3515	3468.5	Х	38	62	18	82
JZA80L-AJPVZA		1920	1595	9010	0400.0					
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<sup>\*</sup>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		
A B	= 1000 = 1125	ڔ	= 2000 = 2125	Q R	-3000 -3125 -3250	Ž A A	= 4000 = 4250 = 4500
COmm	- 1250 1375 1500 1625	ΚıΣZ	= 2250 = 2375 = 2500 = 2625	S T U V	= 3250 = 3375 = 3500 = 3625	8 C D	-4750 -5000 -5250
G	- 1750 - 1750	Ö	= 2750 = 2875	· w	= 3750 = 3975	ÉÉ	== 5500 == 5750

**Shipping Mass(weight)=Curb Weight Less. 40.3	

Vehicle Line TOYOTA SUPRA

Model Year 1998 Issued Aug., 1997 Revised(+)

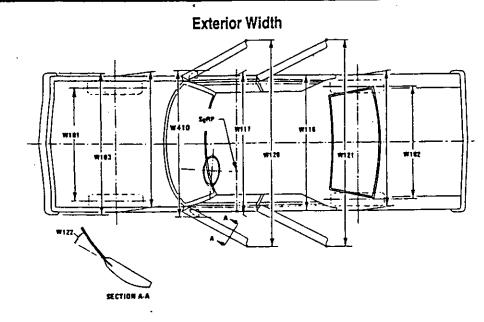
METRIC(U.S. Customary)

		Optional Equipment Differential Mass(weight)*						
		MASS, kg.(lb.)	Remarks					
Code	Equipment	Front	Rear	Total	Restrictions, Requirements			
* * * * * * * * * * * * * * * * * * * *		. 0	2.2	2.2	w/o 6M/T			
Limited slip differential	<del></del>	3.0	3.6	6.6	W/O 0M// I			
Leather seat	<del></del>	-2.3	15.0	12.7	•			
Audio (7sp)		-0.6	4.2	3.6	<del></del>			
Rear spoiler		-0.0	. 7.6					
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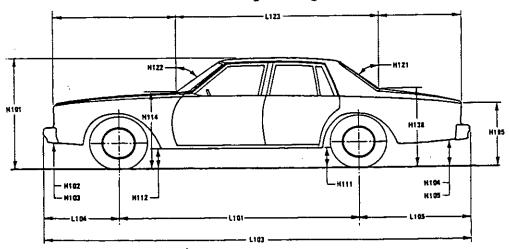
<sup>\*</sup>Also see Engine-General Section for dressed engine mass(weight).

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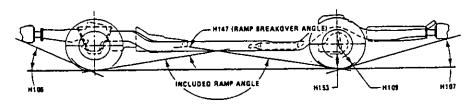
### Exterior Vehicle And Body Dimensions - Key Sheet



### Exterior Length & Height



### **Exterior Ground Clearance**

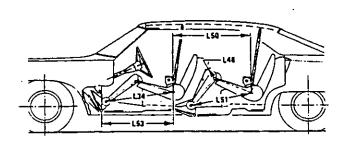


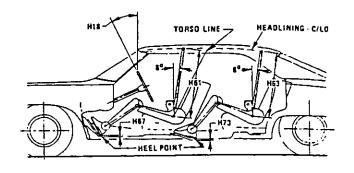
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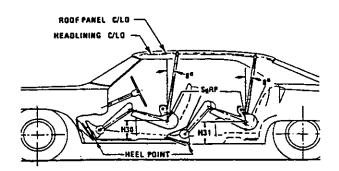
### **MVMA Specifications Form**

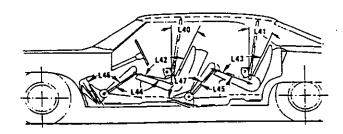
METRIC (U.S. Customary)

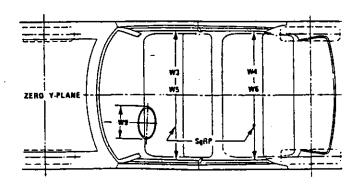
#### Interior Vehicle And Body Dimensions - Key Sheet

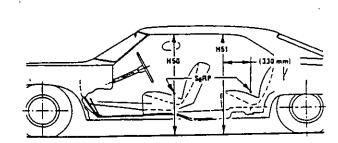






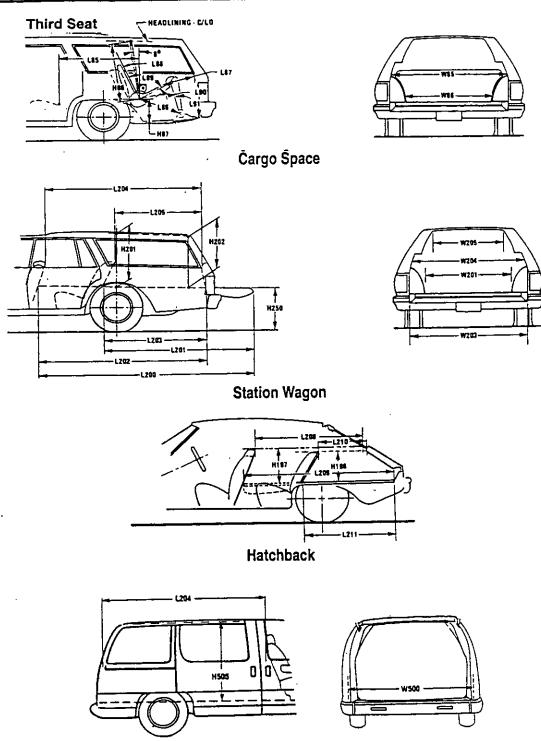






METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions — Key Sheet



**Multipurpose Vehicle** 

**METRIC (U.S. Customary)** 

#### Exterior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

#### Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's

design reference point which —

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle; (b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human

torso and thigh; and

(d) is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,"

#### Width Dimensions

TREAD - FRONT. The dimension measured between the tire W101

centerlines at the ground.

TREAD - REAR. The dimension measured between the tire W102 centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

BODY WIDTH AT SgRP - FRONT. The dimension measured W117 laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or

appliques.

VEHICLE WIDTH - FRONT DOORS OPEN. The dimension W120 measured between the widest point on the front doors in maximum hold-open position.

VEHICLE WIDTH - REAR DOORS OPEN. The dimension

W121 measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door

maximum hold-open position. For venices with a rear door on only one side, this dimension is to the zero "Y" plane. TUMBLE – HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.

CURVED SIDE GLASS. The angle measured from a vertical at the outside surface of the front door glass at the front SgRP "X" plane.

OUTSIDE MIRROR WIDTH: The dimension between the

W410 widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### Length Dimensions

WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear exles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

VEHICLE LENGTH. The maximum dimension measured L103 longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

OVERHAND - FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

OVERHANG - REAR. The dimension measured longitudinally L105 from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

UPPER STRUCTURE LENGTH. The dimension measured L123

longitudinally from the cowl point to the deck point.
REAR WHEEL CENTERLINE "X" COORDINATE or in the L127 case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

#### **Height Dimensions**

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

ROCKER PANEL-REAR TO GROUND. The dimension H111 measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

ROCKER PANEL – FRONT TO GROUND. The dimension

H112 measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

COWL POINT TO GROUND. Measured at zero "Y" plane.

BACKLIGHT SLOPE ANGLE. The angle between the

H114

vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
WINDSHIELD SLOPE ANGLE. The angle between the

H122 vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.

DECK POINT TO GROUND. Measured at zero "Y" plane. H138 STATICLOAD - TIRERADIUS - REAR. Specified by the manu-H<sub>1</sub>09 facturer in accordance with composite TIRE SECTION STANDARD.

#### **Ground Clearance Dimensions**

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard

FRONTBUMPERTO GROUND - CURB MASS (WT.). Meas-H103

ured in the same manner as H102. REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard H104

REAR BUMPER TO GROUND — CURB MASS (WT.). Measured in the same manner as H104. H105

ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the H106 initial point of structural interference forward of the front tire to ground. The limiting structural component shall be

ANGLE OF DEPARTURE. The angle measured between a H107 line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire

to ground. The limiting component shall be designated. RAMP BREAKOVER ANGLE. The angle measured be-H147 tween two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can rolf.

REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to

ground.

MINIMUM RUNNING GROUND CLEARANCE. The mini-H156 mum dimension measured from the sprung vehicle to ground. Specify location.

METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

Areas .	W5	HIP ROOM - FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane
Windshield area		through the SARP — front within 25 mm (1.0 in.) below and 76
Side windows area, includes the front door, rear door, vents,		mm (3.0 in.) above the SgRP – front and 76 mm (3.0 in.) fore
and coor quarter windows on both sides of the vehicle.		and att of the SaPP - front
	D/At	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
Backlight areas.	442	Define if other than round
	147	ACCELEDATOR HEEL POINT TO THE STEERING WHEEL
I Mark Nimensions	H/	CENTED The dimension measured vertically from the
		AUD front to the intersection of the steering column
		centerline to a plane tangent to the upper surface of the
		espering whool rim
	Ц1Ω	STEEDING WHEEL ANGLE. The angle measured from a
"Z" coordinate.	Hio	
Height "Z" coordinate to ground at ours margin.	⊔30	CADD _ COONT TO HEE! I neglinension measured vertically
Height "Z" coordinate to ground.	Hou	to the Codd of front to the accelerator neet built.
	450	TIBBED BODY OPENING III GROUND TENVING THE
	FIGU	dimension measured vertically from the ultimited body
"Z" coordinate.	us1	FEEFORING DEAN DOOM - PHON I, THE UNIVERSION HISAST
Height "Z" coordinate to ground at only maight	PIO 1	ured along a line 8 ded, rear or vertical from the Sync — from
		ta tha basellising plue 102 MM (4 UIII.).
Compartment Dimensions	467	TO COD COVEDING THICKNESS - UNDERNESSED -
compartment bindered	Ho.	COOKET The dimension measured vertically from the
ACCELERATOR HEEL POINT TO STEETING from the		surface of the undepressed floor covering to the underbody
CENTER. The dimension measured noticement centerline		sheet metal at the accelerator heel point.
AHP to the intersection or the steering column streeting		
	Rear '	Compartment Dimensions
wheel rim.		DAOK AND ELECTION The angle measured between a
DESIGNH-POINT - PHONT I HAVEL THE SHIPLE FRONT IN the	L-4 i	to a through the SARP - SECOND and the tolso line.
ured horizontally between the design reports. (See SAE	1.43	HIP ANGLE - SECOND. The angle measured between torso
	L40	U
J1100) NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL.	1.45	KNEE ANGLE - SECOND. The angle measured between
NORMAL DRIVING AND RIDING SEAT THREE BOINT OF	LHO	with a second lower log contention.
The dimension measured nonzontary bottoon a property of the displaced	1.47	
the design H-point travel line from the ognition with the seat moved	L41	
point on the design ri-point have not to include seat track		of the three-dimensional devices bare foot flesh line
to the foremost seat position, but not to include and riding		/P-/ 1096\
travel used for purposes other mannormal serving serving	I AR	COLUMN OF A DANCE — SECOND THE MINIMUM UNDERSION
CARP FRONT "Y" COORDINATED.	LTU	measured from the knee pivot center to the back of the front
MAYIMI IM FEFECTIVE LEGROOM - ACCELERATOR, THE		
dimension measured along a line from the ankle pivot center	150	A BARACIO EDISTANCE — SECUNO, INBUNIBUSIO 111100
to the SaRP – front plus 254 mm (10.0 in.) measured with right	LUV	ured horizontally from the driver SgRP-front to the
foot on the undecressed accelerator pedal. For venicles		
with SORP to heel (H30) greater than 18 in., the accelerator	151	TAKE A RECEIPTIVE LEG ROOM - SECUND, THE UP
nedal may be decressed as specified by the manufacturer.	النا	maneign measured along a line from the alike pivot corner
pedal may be depressed as specified by		
If the accelerator is depressed, and management the pedal.	WA	
RACK ANGLE-FRONT. The angle measured between a	***	
BACK ANGLE - FROM I. The digit statement of the		
vertical line infough the ognit — from the state that and riding		
Seatback is adjustante, use the normal arrange and a		SgRP - second, excluding the door assist straps and attaching
position specified by the mandacturer.		
line and thigh centerline.	ws	HIP ROOM - SECOND. Measured in the same manner as
KNEE ANGLE - FRONT. The angle measured between thigh	***	
KNEE ANGLE - FROM I. Housign measured on the right	Н31	O-DO CCONDITO MESI. The dimension measured vert.
lea	1.00	cally from the SoftP - second to the two differsional correct
FOOT ANGLE - FRONT. The angle measured between the		
lower leg centerline and a line tangent to the ball and neel	H51	HODED BODY OBENING TO GROUND TRECORD, THE
lower leg centerline and a line tangent on the right leg. Ref		dimension maggired vertically into the thinkey you
SAE 1826		opening to the ground on the "X" plane 330 mm (13.5 m)
SAE JUZO.		(
tally from the SgRP – front to the accelerator heel point.	H63	C FEERATIVE DE A DICTOM - SECURD. I DEGILIOUSION - S
shoulder room the sgrip - front to the accelerator fleet point.  SHOULDER ROOM - FRONT. The minimum dimension meas-	ПОО	ured along a line 8 deg, rear or vertical from the Syru to the
SHOULDEH HOUM - FRONT, THOUMAND - SHOULDEH HOUM		
the trimmed surfaces on the "X"		MADINGBOOK COURS THE COURT OF THE COURS OF THE COURS OF THE COURS OF THE COURT OF THE COURS OF THE COURS OF THE COURS OF THE COURT OF THE COURS OF T
ured laterally between the trimmed surfaces on the	<b>473</b>	S FLAGGANGERIGE DEPRESSED = SECOND, MESSING
ured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the belt line and 254 mm (10.0 in.) above the SgRP – front, excluding the	H73	
	Windshield area. Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle. Backlight areas. Total area. Total of all areas (S1 + S2 + S3).  If Mark Dimensions Fiducial Mark — Number 1  "X" coordinate.  "Y" coordinate.  "Z" coordinate.  Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground.  Fiducial Mark — Number 2  "X" coordinate.  "Y" coordinate.  "Z" coordinate to ground.  Compartment Dimensions  ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.  DESIGNH-POINT—FRONTTRAVEL The dimension measured horizontally between the design H-point travel line from the SqRP to the displaced point on the design H-point travel line from the SqRP to the displaced point on the design H-point travel line mith the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).  SQRP—FRONT "X" COORDINATED.  MAXIMUMEFFECTIVELEGROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP he fore the spreased accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot fleat on pedal and note the depression of the pedal.  BACK ANGLE —FRONT. The angle measured between the seatback is adjustable, use the normal driving and riding position specified by the manufacturer. Hill he seatback is adjustable, use the normal driv	Windshield area. Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle. Backlight areas. Total area. Total of all areas (S1 + S2 + S3).  ### Mark Dimensions    H7   Mark Dimensions

**METRIC (U.S. Customary)** 

### Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### **Luggage Compartment Dimensions**

V1 USABLE LUGGAGE CAPACITY -- Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

#### Station Wagon / MPV - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- L86 EFFECTIVELEG ROOM THIRD. The dimension measured along a line from the ankle pivot center to the SgRP third plus 254 mm (10.0 in.).
- L87 KNEECLEARANCE THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE THIRD. Measured in the same manner as L45
- L91 FOOT ANGLE THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM THIRD. Measured in the same manner as W4.
- W86 HIP ROOM THIRD. Measured in the same manner as W5.
  EFFECTIVE HEAD ROOM THIRD. The dimension, measured along a line 8 deg. from the SgRP third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SGRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION THIRD.

#### Station Wagon / MPV - Cargo Space Dimensions

- L200 CARGO LENGTH OPEN FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH OPEN SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 CARGO LENGTH CLOSED FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mov's at the zero "X" plane.
- mpv's at the zero "Y" plane.

  L203 CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting Interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

**METRIC (U.S. Customary)** 

## Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

Hatchback - Cargo Space Dimensions STATION WAGON All hatchback cargo dimensions are to be taken with the front seat V2 in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electronically adjusted Measured in inches: W4 x H201 x L204 seats, see the manufacturer's specifications for Design 'H' Point).

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The
minimum horizontal dimension from the "X" plane tangent 1728 Measured in mm: W4 x H201 x L204 = m<sup>3</sup> (cubic meter) to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane. CARGO LENGTH AT FLOOR - FRONT. The minimum hori-HIDDEN LUGGAGE CAPACITY ~ REAR OF FRONT SEAT. V4 L209 zontal dimension measured at floor level from the rear of the The total volumes of individual pieces of one set of standard zontal dimension measured at noor level from the rear of the front seatback to the normal limiting Interference of the hatchback door on the vehicle zero "Y" plane.

CARGO LENGTH AT SECOND SEATBACK HEIGHT. The minimum dimension measured from the "X" plane tangent luggage stowed in any hidden cargo area below the load floor rear of the front seat. L210 TRUCKS AND MPV'S WITH OPEN AREA. to the rearmost surface of second seatback or the load floor Measured in inches: which is stowed at least one half of the H198 dimension which is stowed at least one half of the retardook dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

CARGO LENGTH AT FLOOR - SECOND SEATBACK. The minimum horizontal dimension measured at floor level from L506 x W505 x H503 1728 Measured in mm: L211 L506 x W500 x H503 the rear of the second seatback or load floor panel to the 10<sup>9</sup> = m<sup>3</sup> (cubic meter) normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the control to the control TRUCKS AND MPV'S WITH CLOSED AREA. V6 H197 Measured in inches: of the seatback to the undepressed floor covering.
SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback L204 x W500 x H505 1728 H198 Measured in mm: to the undepressed floor covering. L204 x W500 x H505 = m3 (cubic meter) V3 HATCHBACK. 10° Measured in inches: HIDDENLUGGAGE CAPACITY - REAR OF SECOND SEAT.
The total volume of individual pieces of one set of standard L208 + L209 x W4 x H197 V8 luggage stowed in any hidden cargo area below the load floor rear of the second seat.
STATION WAGON CARGO VOLUME INDEX. Measured in mm: V10 Measured in inches:  $\frac{208 + 209 \times W4 \times H197}{2} = m^3 \text{ (cubic meter)}$ H201 x L205 x W4 + W201 1728 HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT. Measured in mm: H201 x L205 x W4 + W201 V4 The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load 2 = m<sup>3</sup> (cubic meter) floor rear of the front seat. HATCHBACK CARGO VOLUME INDEX. Usable luggage V11 (one (1) stand and luggage set) below floor: Measured in inches: L210 + L211 x W4 x H198 1728 Measured in mm: L210 + L211 x W4 x H198

= m<sup>3</sup> (cubic meter)

### METRIC (U.S. Customary)

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