MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1995

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 Aug., 1994	Revised	

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.



of the United States, Inc.

Forms Provided by Technical Affairs Division

METRIC (U.S. Customary)

Table of Contents

	1	Vehicle Models/Origin	Ø Indicates Format Change From Previous Year
Ø	2	Power Teams	From Frevious Year
	3	Engine	
	4	Lubrication System	
	4	Diesel Information	
Ø	5	Cooling System	
	6	Fuel System	
	7	Vehicle Emission Control	
	7	Exhaust System	
Ø	8-10	Transmission, Axles and Shafts	
	11	Suspension	•
\emptyset 1	2-13	Brakes, Tires and Wheels	•
	14	Steering	•
1:	5-16	Electrical	
	17	Body - Miscellaneous Information	
	17	Frame	
	18	Restraint System	
Ø	18	Glass	
•	18	Headlamps	
	19	Climate Control System	
\emptyset 20	0-21	Convenience Equipment	•
	21	Trailer Towing	
22	2-24	Vehicle Dimensions	
	25	Vehicle Fiducial Marks	
	26	Vehicle Mass (Weight)	•
	27	Optional Equipment Differential Mass (Weight)
28	3-34	Vehicle Dimensions Definitions - Key S	• •
	35	Index	

NOTE:

 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.

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.

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

Vehicle Line	<u>TOYOTA</u>	SUPRA			
Model Year _	1995	Issued _	Aug., 1994	Revised (•)	

METRIC (U.S. Customary)

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

Descript	fodel tion & Drive D / AWD / 4WD)*		Introduction 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)
2-door	Lift-back,	RWD	1993	JZA80L-ALMVFA	2/2	125	18/23
2-door	Lift-back,	RWD	1993	JZA80L-AJMVFA	2/2	125	18/23
2-door	Lift-back,	RWD	1993	JZA80L-ALPVFA	. 2/2	125	18/24
2-door	Lift-back,	RWD	1993	JZA80L-AJPVFA	2/2	125	18/24
2-door	Lift-back,	RWD	1993	JZA80L-ALFVZA	2/2	125	17/24
2-door	Lift-back,	RWD	1993	JZA80L-AJFVZA	2/2	125	17/24
2-door	Lift-back,	RWD	1993	JZA80L-ALPVZA	2/2	125	19/24
2-door	Lift-back,	RWD	1993	JZA80L-AJPVZA	2/2	125	19/24

Vehicle Line	TOYOTA	SUPRA			
Model Year	1995	_ Issued _	Aug., 1994	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.

			Α	В	С	D
	Engine Code		2JZ-GE	+	2JZ-GTE	- +
	Displac Liters (ement in³)	2.997 (183)	←	2.997 (183)	
E	Induction (FI, Ca	on system rb, etc.)	EFI	+-	EFI with turbo	4
G	Compre	ession	10.0	+	8.5	
E	SAE Net	Power kW (bhp)	164(220)/5800	+	239(320)/5600	-
	at RPM	Torque N • m (lb. ft.)	285(210)/4800	- 4-	427(315)/4000	← .
	Exhaus single,		Semi-dual	- +	Semi-dual	·, ÷
T R	Transm Transa:		5 M/T	4 A/T	6 M/T	4 A/T
A N S	N Effective Final Drive /		4.272	- +	3.133	3.769

Series	Series Availability			ams (A - B - C - D)
Model	<u>. </u>	Code	Standard	Optional
2-door Lift-back, 5	M/T, RWD	JZA80L-ALMVFA	A	<u>.</u>
2-door Lift-back, 5	M/T, RWD	JZA80L-AJMVFA	A	_
<u>2-door Lift-back, 4</u>		JZA80L-ALPVFA	В	-
<u>2-door_Lift-back, 4</u>		JZA80L-AJPVFA	В	-
<u>2-door Lift-back, 6</u>		JZA80L-ALFVZA	C	
<u>2-door Lift-back, 6</u>		JZA80L-AJFVZA	C	
2-door Lift-back, 4		JZA80L-ALPVZA	D	
2-door Lift-back, 4	A/T. RWD	_JZA80L-AJPVZA _		 -
		-		
		-		
	<u> </u>			
<u> </u>				
				<u> </u>
·		 		
		 	·	

MVMA-93 Page 2

 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1995
 Issued
 Aug., 1994
 Revised (*)

Engine Descri	ptlon	2JZ-GE	2JZ-GTE			
ENGINE -	GENERAL					
Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		Inline, front, longitudinal, DOHC, pentroof				
Manufacturer		TOYOTA MOTOR CORPORATION				
No. of cylinders		6				
Bore		86.0				
Stroke		86.0				
Bore spacing (C	/ L to C / L)	93.0				
Cylinder block m	naterial & mass kg (lbs.) (machined)	Cast iron, 58.7				
Cylinder block d	eck height	219.0				
Cylinder block le	ngth	615.5				
Deck clearance (above or below		0				
Cylinder head m	aterial & mass kg (lbs.)	Aluminum alloy, 19.5	Aluminum alloy, 19.6			
Cylinder head vo	olume cm³ (inches²)	43.9	44.9			
Cylinder liner ma	terial	N.A.				
Head gasket thickness (compressed)		0.4	1.35			
Minimum combustion chamber total votume cm³ (inches³)		55.7	66.5			
Cyl. no. system	L. Bank	1-2-3-4-5-6				
(front to rear)*	R. Bank	-				
Firing order		1-5-3-6-2-4				
ntake manifold r	naterial & mass kg (lbs.)**	Aluminum alloy, 7.5(Federal), 7.8(California)	Aluminum alloy 6.0			
Exhaust manifok	material & mass kg (fbs.)**	Cast iron, 5.5(Federal), Stainless steel 2.8(California)				
Knock sensor (ni	ımber & location)	2, cylinder block				
Fuel required unl	eaded, diesel, etc.	Unleaded premium gasoline required				
uel antiknock in	dex (R + M) + 2	91				
	Quantity	Fr.=2, Rr.=1				
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Hydroelastic, Elastomeric	,			
	Added isolation (sub-frame, crossmember, etc.)	Crossmember, Support member				
Total dressed en	gine mass (wt) dry***	H/T-196, A/T-187(Federal), H/T-194, A/T-185(California)	M/T=252, A/T=237			
Engine – Pi	stons					
Material & mass, g weight, oz.) - piston only		Aluminum alloy, 368	Aluminum alloy, 369			
Engine - C	amshaft					
ocation		Cylinder head				
Material & mass k	ig (weight, lbs.)	Cast iron, 3.2/3.3	Cast iron, 3.3/3.3			
Orive type	Chain / beft	Timing belt				
- '/	Width / pitch	25.4/8.0				

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

[&]quot; Finished state.

^{***} Dressed engine mass (weight) includes the following:

MANAGE Comme	nifi antiama	Vehicle Line _	TOYOTA SUPRA	<u>, </u>	
MVMA Spec	ancauons	Model Year	1995 Issu	ed Aug., 1994 Revised (*)	
METRIC (U.S. Cu	ustomary)				
Engine Description Engine Code		2JZ-GE		2JZ-GTE	<u> </u>
Engine – Valve Sy	ystem				
Hydraulic lifters (std., opt.,	n.a.)	N.A.			
Valves Number in	itake / exhaust	12/12			
	. intake / exhaust	33.5/29.0			<u> </u>
Engine - Connec	ting Rods				
Material & mass kg., (weig	ht, ibs.)*	Forged steel, 0.7	5		
Length (axes C/L to C/L)		142.0			
Engine – Cranksh	naft				
Material & mass kg., (weig	ht, lbs.)*	Forged steel, 28		<u> </u>	
End thrust taken by bearing	g (no.)	No.4	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Length & number of main b	bearings	701, 7			
Seal (material, one, two	Front	Synthetic rubber,	one piece		
piece design, etc.)	Rear	Synthetic rubber,	one piece		
Engine – Lubricat	tion System				
Normal oil pressure kPa (p	si) at engine rpm	257/2000	-	290/2000	
Type oil intake (floating, sta	ationary)	Stationary			
Oil fitter system (full flow, p	art, other)	Full flow			
Capacity of c/case, less filt	er-refill-L (qt.)	4.9		4.7	
Engine – Diesel Ir	nformation N	OT APPLICABLE			
Diesel engine manufacture	r				
Glow plug, current drain at	0°F			· · · · · · · · · · · · · · · · · · ·	
Injector Type					
	ressure kPa (psi)				
Pre-chamber design			w.w.	<u> </u>	···
Fuel in- Manufactur	rer				
jection pump Type					
Fuel injection pump drive (t		<u> </u>			
Supplementary vacuum so	urce (type)	<u> </u>		·	
Fuel heater (yes/no)					
Water separator, description (std., opt.)	n				
Turbo manufacturer					
Oil cooler-type (oil to engine oil to ambient air)	e coolant;				
Oil fitter					
Engine – Intake S	ystem				
Turbo charger - manufactur	rer	N.A.		TOYOTA MOTOR CORPORA	TION
		37 A			

Air cooled furnace brazed aluminum

Intercooler

Super charger - manufacturer

MVMA-93 Page 4

N.A.

N.A.

^{*} Finished State

Engine Description Engine Code		2JZ-GE	2JZ-GTE			
Engine –	Cooling System					
Coolant recov	very system (std., opt., n.a.)	Std.	······································			
Coolant fill loc	cation (rad., bottle)	Reservoir tank				
Radiator cap	relief valve pressure kPa (psi)	108				
Circulation	Type (choke, bypass)	Bypass				
thermostat	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	Jo By min:			
Water	Drive (V-belt, other)	V-belt				
pump	Bearing type	Roller ball				
	Impeller material	Resin				
	Housing material	Aluminum alloy				
By-pass recirc	culation type (inter., ext.)	External				
	With heater - L(qt.)	M/T=7.3, A/T=8.3	M/T=9.5, A/T=9.4			
Cooling system	With air conditioner – L(qt.)	M/T=7.3, A/T=8.3	M/T=9.5, A/T=9.4			
capacity	Opt. equipment specify – L(qt.)	N.A.	11/1 9:53 11/1-9:4			
Water lackets	full length of cyl. (yes, no)	Yes				
	and cylinder (yes, no)	No				
Water jackets open at head face (yes, no)		No				
	Std., A/C, HD	Std.				
	Type (cross-flow, etc.)	Vertical flow				
		Vertical flow				
Radiator	Construction (fin & tube mechanical, braze, etc.)	Corrugated fin, soldered				
core	Material, mass kg (wgt., lbs.)	Aluminum, M/T=2.7, A/T=4.2	Copper-brass, M/T=7.7, A/T=8.5			
	Width	737	738			
	Height	399	400			
	Thickness	M/T=16, A/T=27	41			
	Fins per inch	M/T=20, $A/T=14.5$	M/T=14.5, $A/T=17$			
Radiator end t	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)	l, rear of radiator	2, rear of radiator (M/T, A/T) 1, front of radiator (A/T only			
Fan	Diameter & projected width	430/79	430/68(main)			
	Ratio (fan to crankshaft rev.)	1.25	1.25 (main)			
	Fan cutout type	Fluid coupling	Fluid coupling (main)			
	Drive type (direct, remote)	V-belt direct	V-belt direct (main)			
	RPM at idle (elec.)	- V-Delt direct	2500 (sub)			
	Motor rating (wattage/elec.)	_	40 (sub)			
	Motor switch (type & location/elec.)	-				
	Switch point (temp./pressure/elec.)		Thermo switch at water outlet (Sub)			
		- D4-				
	Fan shroud (material)	Resin				

MVMA	Spe	cific	ations
-------------	-----	-------	--------

Pressure range kPa (psi)
Flow rate at regulated pressure L (gal)/hr @ kPa (psi)

Vehicle Line TOYOTA SUPRA

Model Year 1995 Issued Aug., 1994 Revised (•)

METRIC (U.S. Customary)

Engine Description Engine Code 2JZ-GE 2JZ-GTE

353

Minimum 180 at 353

Induction type: carburetor, fuel injection system, etc. Manufacturer		Sequential multi-port fuel injection		
		NIPPONDENSO		
Carburetor no.	of barrels	N.A.		
Idle A/F mix.		Preset at manufacturer		
	Point of injection (no.)	6		
Fuel injection	Constant, pulse, flow	Pulse flow		
преспол	Control (electronic, mech.)	Electronic	· ·	
	System pressure kPa (psi)	284 250		
idle spdrpm (spec. neutral	Manual	Preset-not adjustable		
or drive and propane if used)	Automatic	Preset-not adjustable		
	heat control (exhaust ostatic or fixed)	N.A.		
Air cleaner type		Paper element type		
Fuel filter (type/location)		Paper element type, under floor		
	Type (elec. or mech.)	Electric		
Fuel	Location (eng., tank)	In tank		
pump -	D	222	* *	

323

Minimum 125 at 323

Fuel Tank

	···	
Capacity refil	I L (gallons)	70
Location (describe)		Underside of trunk floor
Attachment		Bands and Bolts
Material & Mass kg (weight lbs.)		High density polyethylene
Filler	Location & material	Right quarter panel, high density polyethylene
pipe	Connection to tank	As one
Fuel line (ma	terial)	Steel .
Fuel hose (m	aterial)	Rubber
Return line (r	naterial)	Steel
Vapor line (m	atenal)	Steel
	Opt., n.a.	
Extended	Capacity L (gallons)	
range tank	Location & material	•
	Attachment	-
	Opt., n.a.	-
	Capacity L (gallons)	
Auxiliary tank	Location & material	-
	Attachment	-
	Selector switch or valve	
	Separate fill	-

MVMA-93 Page 6

MVMA Specifications	Vehicle Line TOYOTA SUPRA
MVMA Specifications	Model Year 1995 Issued Aug., 1994 Revised (*)
METRIC (U.S. Customary)	

METRI			2JZ-GE					
Engine Description Engine Code				Federal	California	2JZ-GTE		
Vehicle	Emission (Control						
	Type (air in modification		gine	SFI + EGR + HO ₂ S -	+ TWC	SFI + CAC + EGR + HO ₂ S + TC + TWC		
		Pump or	pulse	N.A.				
		Driven b	y	N.A.				
	Air Injection	Air distril (head, m	bution nanifold, etc.)	N.A.				
•		Point of	entry	N.A.				
Exhaust	Exhaust Gas		ontrolled flow, lice, ather)	Controlled flow	•			
Emission Control	Recircula-	Exhaust	source	Cylinder head	· · · · · · · · · · · · · · · · · · ·			
	tion		exhaust injection carburetor, l, other)	Intake manifold		Surge tank		
		Type		TWC				
		Number	ot	2				
		Location	(s)	Exhaust manifold,	under floor			
	Catalytic	Volume I	L (in³)	Exhaust manifold=1.079(2JZ-GE Federal), 1.335(2JZ-GE California, 2JZ-GTE), under floor=1.16				
ŀ	Converter	Substrat	e type	Metal foil				
		Noble metal type		Pt, Rh				
		Noble m concentr	etal ration (g/cm³)		:1.62, Rh:0.43(2JZ-GE Fornia, 2JZ-GTE), und	Federal), Pt=2.00, er floor=Pt:1.57, Rh:0.29		
	Type (venti			Induction system closed type				
Crankcase	Energy sou vacuum, ca	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum				
Emission Control	Discharges manifold, or	Discharges to (intake manifold, other)		To intake manifold	l	To surge tank		
	Air inlet (bro	eather cap.	other)	From air cleaner		From air inlet tube		
Evapora-	Vapor vento		Fuel tank	Canister				
tive Emission	(crankcase, canister, ot		Carburetor	N.A.				
Control	Vapor stora	ge provisio	on	Charcoal canister .				
Electronic	Closed loop	(yes/no)		Yes				
system	Open loop	(yes/no)		No				
Engine -	– Exhaust	System	n			•		
Type (single dual, other)	, single with cr	oss-over,		Semi dual				
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs)		cht thru, kg (weight lbs)	1, reverse flow, 2 Stainless steel 2.		l, reverse flow Stainless steel 6.8			
Resonator n	io. & type			N.A.	<u> </u>			
	Branch o.d.	, wall thick	ness	N.A.	· · · · · · · · · · · · · · · · · · ·			
Exhaust pipe	Main o.d., v	vall thickne	SS	48.6/65, 1.2		75, 1.5		
	Material & M	dass kg (w	eight lbs)	Stainless steel, 4	.4/6.9	Stainless steel, 4.4/7.8		
Inter-	o.d. & wall t			70/54, 1.2				
mediate pipe	Material & A	Mass kg (w	eight lbs)	Stainless steel, 1	0.4	Stainless steel, 5.8		
Tail	o.d. & wall t	hickness		48.6/75, 1.2		54/75, 1.2		
pipe	Material # A	Vaterial & Macs kn /weight the)		Stainlass staal 7	-	Stainless steel 8 2		

Stainless steel 7.7

Stainless steel 8.2

Page 7 MVMA-93

Tail pipe

Material & Mass kg (weight lbs)

MVMA Specifications		Vehicle Line TOYOTA SUP	RA	
MVMA Specifications			sued Aug., 1994 Revised (*)	
METRIC	(U.S. Customary)			
Engine Description Engine Code		2JZ-GE	2JZ-GTE	
Transmis	sions/Transaxle (Std.,	Opt., N.A.)		
Manual 4-spe	ed (manufacturer/country)	-	-	
Manual 5-spe	ed (manufacturer/country)	TOYOTA/JAPAN	-	
Manual 6-spe	ed (manufacturer/country)	-	GETRAG/GERMANY	
Automatic (m	anufacturer/country)	AISIN A.W./JAPAN		
Automatic over	erdrive (manufacturer/country)	-		
Manual T	ransmission/Transaxle			
Number of for	rward speeds	5	6	
	1st	3.285	3.827	
	2nd	1.894	2.360	
	3rd	1.275	1.685	
_	4th	1.000	1.312	
Gear ratios	5th	0.783	1.000	
	6th		0.793	
	Reverse	3.768	3.280	
Synchronous	meshing (specify gears)	All including reverse	←	
Shift lever loc	ation	Floor	-	
Trans, case m	nat'i. & mass kg (lbs)*	Aluminum die cast, 46(Dry)	Aluminum die cast, 51(Dry)	
Lubricant	Capacity L (pt.)	2.6	1.8	
	Type recommended	GL-3	DEXRON II	
Clutch (M	lanual Transmission)			
Clutch manuta	acturer	AISIN SEIKI	←	
Clutch type (d	ry, wet; single, multiple disc)	Single dry plate, Diaphragm	+	
Linkage (hydr	aulic, cable, rod, lever, other)	Hydraulic	+	
Max. pedal eff		130	140	
spring load) N	(lbs) Released	100	100	
Assist (spring,	, power/percent, nominal)	20	←	
Type pressure	e plate springs	Diaphragm spring	<u> </u>	
Total spring lo	ad (nominal) N (lbs)	6900	10400	
	Facing migr. & material codin		←	
	Facing material & construction	Semi-mould	<u> </u>	
	Rivets per facing	16	32	
Clutch facing	Outside x inside dia. (nominal		250 x 150	
	Total eff. area cm²(in.²)	260	314	
	Thickness (pressure plate side/fly wheel side)	3.5	4.0	
	Rivet depth (pressure plate side/fly wheel side)	1.6/1.6	1.6/1.6	
	Engagement cushion method	Wave spring segments	←	
Release bearing type & method lub.		Self-centering ball bearing with permenent lubrication		
neisase beam	rig type a memor ino.			

 $[\]ensuremath{^{\circ}}$ includes shift linkage, lubricant, and clutch housing. If other specify.

MVMA-93 Page 8

Vehicle Line TOYOTA SUPRA

Model Year 1995 Issued Aug., 1994 Revised (-)

METRIC (U.S. Customary)

Engine Description Engine Code

<u> </u>	
2JZ-GE	2JZ-GTE

Automatic Transmission/Transaxie

Trade Name Type and special features (describe)		A340E 2-mode, 4-speed electronically controlled planetary gear train with lock-up clutch torque converter				
					Shift mechan	des
	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	vehicle speed - drive range km/h (mph)	3 → 4 167 ⁻	3 + 4 193.			
Max. upshift	engine speed RPM					
Max. kickdow	n speed - drive range km / h (mph)	4 → 3 162	4 + 3 187			
Min. overdriv	e speed km / h (mph)	3+4 36, 4+3 22	3+4 31, 4+3 25			
	Туре	N.A.	+			
	Torus design	N.A.	+			
	Number of elements	3 elements	+			
Torque	Max. ratio at stall	1.9	2.0			
	Type of cooling (air, liquid) Liquid		+-			
	Nominal diameter	254	272			
	Capacity factor "K"	N.A.	+			
Pump type		N.A.	+			
	Capacity refill L (pt.)	1.6	1.9			
Lubricant	Type recommended	ATF "DEXRON II"	ATF "TYPE T-II"			
Oil cooler (sto	L, opt., N.A., internal, external, air, liquid)	Std. = In radiator liquid	+			
	mass kg (lbs) & case material**	69.0, Aluminum die cast	71.9, Aluminum die cast			

All Wheel / 4 Wheel Drive

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)

Manufacturer and model

Transfer case
Type and location

Low-range gear ratio

System disconnect (describe)

Center differential

Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)

Torque splil (% front/rear)

^{*} Input speed + / torque

^{**} Dry weight including torque converter. If other, specify.

		_ 181 -	•	Vehicle Line TOYOTA SUPR	A	
MVMA Specifications			ions	Model Year 1995 Issu		
METRIC	(U.S. C	ustomar	y)			
Engine Description Engine Code			2JZ-GE	2JZ-GTE		
Axle Rati	io and To	oth Comb	inations	(See 'Power Teams' for axle ratio usage)		
Axie ratio (or	overall top g	ear ratio)		4.272	M/T=3.133, A/T=3.769	
Ring gear o.c	d			205.0	M/T=222.0, A/T=205.0	
No. of teeth	Pinion			11	M/T=15, A/T=13	
	Ring ge	ar		47	M/T=47, A/T=49	
Rear Axi	e Unit					
Description				Under floor integral		
Limited slip d	ifferential (ty	pe)		Opt.=TORSEN	Std.=TORSEN	
Drive pinion		Type		Hypoid		
		Offset	<u> </u>	28.00	M/T=33.00, A/T=28.00	
No. of differe	ntial pinions	T		Std.=2, Opt.=6	Std.=6	
Pinion / differ	ential	-	t (shim, etc.)	Shim/Shim		
Data to the sale	(baadaa <i>(</i> ba	Bearing ad	justment	Collapsible tube/shim		
Driving whee	Capacity			Double row angular ball bear	ring	
Lubricant		commended		1.35		
	Турото		- -	API GL-5		
-						
		"				
Propeller	Shaft -	Rear Who	el Drive			
Manufacturer Type (straight		n-tube.		TOYOTA MOTOR CORPORATION		
internal-exten				Front=Straight tube, Rear=Straight tube		
	Manual 4	4-speed transr	mission	_		
	-			Front=60.5x520		
Outer	Manual 5	5-speed transr	nission	Rear =60.5x569	-	
diam. x				Medi 00.3x303	Front=60.5x538	
length*	Manual (S-speed transr	MISSION	-	Rear =60.5x583	
	Overdrive	e — —		_		
	-			Front=60.5x446	Front=60.5x495	
	Automatic transmission			Rear =60.5x569	Rear =60.5x606	
Inter-	Type (pla	ain, anti-friction	n)	Ball bearing		
mediate bearing		on (fitting, pre		Prepack		
-	Туре			Involute spline		
Slip yoke	Number	of teeth		M/T=21, A/T=23	27	
	Spline o.	d.		M/T=27.94, A/T=30.48	29.07	
. —	Make sa	d mtg. no.	-Ernn:	No.1, 2 joint=TOYOTA MOTOR (
	make a/k	- my. no.	Bose	No.3 joint=TOYO		
	Number	used		3		
	Type (bal	Il and trunnion	, cross)	No.1, 2 joint=Hook's joint		
Universal				No.3 joint=Flexible coupling		
joints	Rear atta	ch (u-bolt, clai	mp, etc)	Bolts and nuts		
	Bearing	Type (plain, anti-friction)		Anti-friction (Needle roller bearing)		
		Lubrication (fitting, prepack)		Prepack		
Drive taken the arms or spring		e tube,	_	N.A.		
Torque taken t arms or spring		ue tube,		N.A.		

^{*} Centerline to centerline of universal joints, or to centerline of rear attachment. Page 10 MVMA-93 (Rear Wheel Drive)

Vehicle Line TOYOTA SUPRA

Model Year 1995 Issued Aug., 1994 Revised (*)

METRIC	/II C	Custom	
MEINIC	(U.S.	Custom	arvi

Model Code/Description And/Or Engine Code/Description

2JZ-GE	2JZ-GTE

Suspension — General Including Electronic Controls

	Standard/optional/not avail.		N.A.	
	Manual/automatic control			
	Тур	oe (air/hydraulic)		
Car leveling	Pris	mary/assist spring		
no roming	Rea	ar only/4 wheel leveling		
	Sin	gle/dual rate spring		
	Sin	gle/dual ride heights		
	Pro	vision for jacking		
-	Sta	ndard/option/not avail.	N.A.	
	Ma	nual/automatic control		
	Nu	mber of damping rates		
Shock absorber	Tyr	be of actuation (manual/ ctric motor/air, etc.)		
damping controls	5	Lateral acceleration		
	n	Deceleration		
	٥	Acceleration		
	s	Road surface		
Shock absorber	Typ	Xe	Tube, double acting	
	Ma	ke	TOKICO	TOKICO or KAYABA
(front & rear)	Pis	ton diameter	30.0	TOKICO=40.0, KAYABA=46.0
	Rox	d diameter	12.5	

Suspension - Front

Type and des	scription	Double wishbone		
	Full jounce (define load condition)	80		
Travel	Full rebound	95		
	Type (coil, leaf, other & material)	Coil, alloy steel		
	Insulators (type & material)	Rubber, top only		
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Left =296x96	Left =295x96	
Spring		Right=294x96	Right=293x96	
	Spring rate (N/mm (ib.fin.))	73	74	
	Rate at wheel [N/mm (lb_fin)]	30	31	
Stabilizer	Type (link, linkless, frameless)	Link, frameless		
	Material & O.D. bar/tube, wall thickness	Steel, 30	Steel, 30	

Suspension - Rear

Type and description			Double wishbone		
Travel	Full jounce (define load condition)		85		
119461	Full re	ebound	100		
	Type (coil, leaf, other & material)		Coil, alloy steel		
	Size (heigh	(Laaf: length & width; Coil: design If & i.d.; Bar: length & diameter)	320x98.5	319x98.5	
Spring	Sprin	g rate (N/mm (lb./in.))	34	36	
	Rate	at wheel (N/mm (lb./in.))	23	24	
	Insula	ators (type & material)	Rubber, top only		
	11	No. of leaves	N.A		
	leaf	Shackle (comp. or tens.)	N.A.		
Stabilizer	Type	(link, linkless, frameless)	Link, frameless		
	Mater	rial & O.D. bar/tube, wall thickness	Steel, 20	Steel, 22.2	
Track bar (ty	rpe)		N.A.	·	

Vehicle Line	TOYOTA	SUPRA			
Model Year _	1995	Issued	Aug., 1994	, Revised (•)	

Power brake (st	nd , opt., n.a.) oportion, del d., opt., n.a.) mote, integri	Front (disc or drur Rear (disc or drum ay, metering, other)		circuits	ctuation with front and rear		
Manufacturer arbrake type (std., Valving type (pro Power brake (std Booster type (re Vacuum	opt., n.a.) oportion, deli d., opt., n.a.) mote, integri	Rear (disc or drum		circuits	ctuation with front and rear		
brake type (std., Valving type (pro Power brake (ste Booster type (re Vacuum	opt., n.a.) oportion, deli d., opt., n.a.) mote, integri	Rear (disc or drum		AVERONO dice std			
Valving type (pro Power brake (sta Booster type (re Vacuum Traction	oportion, dela d., opt., n.a.) mote, integra	ay, metering, other)	1)	AKEBUNO, disc, std.	AKEBONO, disc, std. SUMITOMO, disc, std.		
Power brake (ste Booster type (re Vacuum	d., opt., n.a.) mote, integra			AISIN, disc, std. SUMITOMO, disc, std.			
Booster type (re Vacuum Traction	mote, integra			P & B valve			
Vacuum Traction				Std.			
Traction	Source (inti	ıl, vac., hyd., etc.)		Integral, vacuum			
Traction		ne, pump, etc.)		Inline			
	Reservoir (volume in.3)		N.A.			
	Pump-type	(elec, gear driven, bel	t driven)	N.A.			
assist	Operationa	l speed range		N.A.	Std. (All)		
Į	Type (engi	ne or brake interventio	n)	_	Engine and brake		
	Front / rear	(sto., opt., n.a.)		Front and rear, std.			
ļ	Manufactur	er		NIPPONDENSO			
Anti-lock		ronic, mech.)		Electronic			
device		nsors or circuits		4			
	Number an	i-lock hydraulic circuit	5	4			
Į.	Integral or a	idd-on system		Add-on			
ļ.	Yaw control	<u> </u>		Yes			
	Hydraulic power source (elec., vac. mtr., pwr. strg.)			Electric motor			
Effective area cm²(in.²)*				288	336		
Gross Lining are		(F/R)		241/132	262/143		
Swept area cm²(vept area cm²(in.²)***(F/R)		,	1651/1246	1947/1674		
-	Outer working diameter		F/R	294/305	320/321		
Rotor L	Inner working diameter		F/R	184/231	201/223		
·	Thickness		F/R	32/16	30/16		
	·	pe (vented/solid)	F/R	Cast iron, vented/vented			
Drum .	Diameter A.		F/R	·· -			
	Type and m	atemal	F/R	-			
Vheel cylinder b				44.45x2/42.86	42.85x4/40.45x2		
faster cylinder	Bore	/stroke	F/R	25.4/18.0/25.4/12.0	<u> </u>		
Pedal arc ratio				3.27			
	445 N(100 lt	.) pedal load [kPa (ps		10500 10700			
ining clearance		Don't a	F/R	Self adjust/Self adjust			
1	L	Bonded or riveted (riv	rets/seg.)	Bonded			
	<u> </u>	Rivet size	_	-			
	<u> </u>	Manufacturer	-	SUMITOMO, AISIN CHEMICAL, NISSINBO, AKEBUNO			
	Front wheel	Lining code		-			
	-	Material Brimary or a		Molded resin	1 10 50 5 10		
ľ	-	Finitary Of C		123x55x11	117x59.5x12		
	<u> </u>	Size Secondary of		123x55x11	117x59.5x12		
rake ning	-	Shoe thickness (no list		6.0	5.0		
	-	Bonded or riveted (riv	ets/seg.)	Bonded	47		
		Manufacturer		SUMITOMO, AISIN CHEMIC	AL, NISSINBO, AKEBONO		
	Rear wheel	Lining code****			 		
		Material Primary as a	 _	Molded resin			
}	 _	- Filliary or o		104x37x10	80x49x11		
	\vdash	Size Secondary of Shoe thickness (no line)		104x37x10 5.5	80x49x11		

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.)

""Manufacturer I.D., catalog for formulation designation and coefficient of friction classification."

^{****} Size for drum brakes includes length x width x thickness.

Vehicle Line	TOYOTA	SUPRA			
Model Year _	1995	lssued	Aug., 1994	Revised (•)	

METRIC (U.S. Customary)

Model Code/Description And/Or Engine Code/Description

2JZ-GE	2JZ-GTE	•

Tires And Wheels (Standard)

	Size (service	description)	Front=225/50ZR16, Rear=245/50ZR16	Front=235/45ZR17, Rear=255/40ZR17			
Tires	Type (bias, ra	adial, steel, nylon, etc.)	Radial, steel & nylon				
	Inflation pres sure (cold) to	er - G,	230	250			
	recommende max. vehicle load		250				
	Rev./mile-at	70 km/h (45 mph)	Front=842.55, Rear=815.71	Front=815.20, Rear=823.06			
	Type & male	rial	Aluminum				
	Rim (size & fi	lange type)	Front=16x8JJ, Rear=16x9JJ	Front=17x8JJ, Rear=17x9.5JJ			
Wheels	Wheel offset		50				
	1	Type (bolt or stud & nut)	Stud & nut				
	Attachment	Circle diameter	114.3				
		Number & size	5-M12x1.5				
Spare	Tire and whe	el	Tire : T145/70R17 Wheel: 17x4T				
	Storage posit (describe)	ion & location	Flat in trunk room				

Tires And Wheels (Optional)

Tire size (service description)	N.A.	
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		· <u> </u>
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		· · · · · · · · · · · · · · · · · · ·
Wheel (type & material)		
Rim (size, llange 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 dontrol Location of control Operates on		Hand operated	
		Floor	
		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)	181x25x2.5	

MVMA	Spe	cific	ations
-------------	-----	-------	--------

Vehicle Line TOYOTA SUPRA Aug., 1994 Revised (*) 1995 Model Year Issued

METRIC (U.S. Customary)

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

Tie rods (one or two) 2	Steering				
Speed-sensitive (std., opt., n.a.)	Manuai (std., opt., n.a.)			N.A.	
A-wheel steering (std., opt., n.a.) N.A.	Power (std., or	х., п.а.)		•	Std.
Adjustable steering wheelcolumn Citil Letescope, other) Citil Letescope, other	Speed-sensitiv	e (std., opt.	, n.a.)		Std.
Manual	4-wheel steeri	ng (std., opt.	., n.a.)		N.A.
Manual M	Adjustable		Type		Tilt
Std., opt., n.a. Std., opt., opt.	steering wheel		Manufacturer		TOYOTA MOTOR CORPORATION
Cutside Front Fr	(mr. reiescope,	otner)	(std., opt., n.a.)		Std.
Cutside Cutside Curb to curb (i. & r.) 10.9	Wheel diamete	Ir**	Manual		N.A.
Turning diameter (mile)	(W9) SAE J11	00	Power		370
Manual Mail to wall (i. & r.) 10. 9		Outside	Wall to	wall (l. & r.)	11.5
Mail to wall (i. & r.) 6.6			Curb to curb (I. & r.)		10.9
Scrub Radius Scru		Inside	Wall to	wali (l. & r.)	6.2
Manual Gear		rear	Curb to	curb (l. & r.)	6.6
Manual Gear	Scrub Radius*		•		8 6
Manual Gear			Туре		-
	•	Gear	Manufacturer		-
No. wheel turns (stop to stop)	Manual	, C.	Ratios	Gear	-
Type Coaxial, elec., hyd., etc. Integral, hydraulic			1.2.23	Overall	-
Power Hanutacturer TOYOTA MOTOR CORPORATION Rack & pinion Ratios Gear \infty Rack & pinion Power Ratios Gear \infty Overall 17.5		No. wheel turns (stop to stop)		op to stop)	
Power Gear Type Rack & pinion Gear ∞		Type (coaxial, elec., hyd., etc.)		., hyd., etc.)	
Power Gear Flatios Gear Coverall 17.5		Manufact	turer		TOYOTA MOTOR CORPORATION
Gear Ratios Gear ∞ Overall 17.5	Power		Туре		Rack & pinion
Overall 17.5		Gear	Sear Batios	Gear	8
No. wheel turns (stop to stop) Type Tie-rod directly attached to rack end Location (front or rear of wheels, other) Tie rods (one or two) Steering axis No. wheel turns (stop to stop) Tie-rod directly attached to rack end Front of wheels				Overall	17.5
Type Tie-rod directly attached to rack end Location (front or rear of wheels, other) Tie rods (one or two) 2 Inclination at camber (deg.) 9°35' 9°45' Steering axis Bearings (type) Upper Ball joint Lower Ball joint Thust N.A.		Pump (dr	iva)		V-ribbed belt
Linkage		No. whee	l turns (st	op to stop)	3.0
Comparison		Туре			Tie-rod directly attached to rack end
Inclination at camber (deg.)	Linkage			ear	Front of wheels
Steering axis Bearings (type) Ball joint Lower Ball joint Thrust N.A.		Tie rods (one or two)			2
Bearings (type) Lower Ball joint Thrust N.A.		Inclination	n at camb	er (deg.)	9°35' 9°45'
Bearings (type) Lower Ball joint Thrust N.A.	Steering				Ball joint
Thrust N.A.	axis		Lower		
		(3)00)	Thrust		N.A.
	Steering spindle	e/knuckle &	joint type		

^{*} The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground. ** See Page 23.

MVMA-93

METRIC (U.S. Customary)

Model Code/Description And/Or Engine Code/Description

Vehicle Line	TOYOTA	SUPRA			
Model Year _	1995	Issued .	Aug., 1994	Revised (•)	

2JZ-GE	2JZ-GTE
	<u></u>

Wheel Alignment

	0	Caster (deg.)	3°20' ± 45'	3°30' ± 45'
	Service checking	Camber (deg.)	-20' ± 45'	-30' ± 45'
Front wheel at curb mass (wt.)		Toe-in outside track-mm (in.)	0 ± 2	0 ± 2
		Caster (deg.)	3°20' ± 30'	3°30' ± 30'
	Service reset*	Camber (deg.)	-20' ± 30'	-30' ± 30'
	1030.	Toe-in - mm (in.)	0 ± 2	0 ± 2
	Periodic	Caster (deg.)	N.A.	
	M.V. in- spection	Camber (deg.)	N.A.	
	Spoots	Toe-in - mm (in.)	N.A.	
	Service	Camber (deg.)	$-1^{\circ}35^{1} \pm 45^{1}$	-1°30' ± 45'
Rear	checking	Toe-in outside track-mm (in.)	3 ± 2	3 ± 2
wheel at curb mass	Service	Camber (deg.)	-1°35' ± 30'	-1°30' ± 30'
(wL)	reset*	Toe-in - mm (in.)	3 ± 2	3 ± 2
	Periodic	Camber (deg.)	N.A.	
	M.V. in- spection	Toe-in - mm (in.)	N.A.	

^{*} Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speed-	Type (analog, dig	ital, std., opt.)	Analog			
Trip odometer (std., opt., n.a.) Std. Standard. optional, not available N.A. Type Secondary, opto-electronic Speedometer Digital Status / warning indicators Turn signals, high beam, low fuel, check gauges Brightness control adjustable EGR maintenance indicator No Charge Indicator Warning device (light, audible) Temperature Indicator Type Telltale lamp Indicator Warning device (light, audible) N.A. Oil pressure Indicator Warning device (light, audible) Fuel Warning device (light, audible) Type Telltale lamp	Std.					
	Standard, optional, not available		N.A.			
	Туре	Secondary, opto-electronic	Std. N.A. No-electronic Indicates the state of the stat			
Head-up display EGR maintena Charge indicator Temperature indicator Oil pressure indicator Wind-shield wiper Wind-shield washer Rear window without	Speedometer	Digital				
		Turn signals, high beam, low fuel, check gauges				
	•					
GR maintena	nce indicator		No			
Charge	Туре		Telltale lamp			
ndicator	Warning device (I	ight, audible)	Light			
Head-up display EGR maintenan Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind-shield wiper Wind-shield washer Rear window with	Туре		Electric gage			
	Warning device (i	ight, audible)	N.A.			
	Туре		Std. N.A. No Telltale lamp Light Electric gage N.A. Telltale lamp Light Electric gage Light Electric gage Light Electric gage Light Electric 2 speed with adjustable intermittent and mist ope			
ndicator	ator Warning device ressure ator Warning device Type ator Warning device Warning device	ight, audible)	Light			
	Туре		Electric_gage			
indicator Fuel	Warning device (I	ight, audible)	Light			
	Type (standard)	f. opt. n.a.) I. not evailable N. A. Secondary, opto-electronic Digital Turn signals, high bearn, low fuel, check gauges Day/night mode, adjustable No Telltale lamp Light Electric gage ght, audible) N. A. Telltale lamp ght, audible) Light Electric gage ght, audible) Light Electric z speed with adjustable intermittent and mist operati — LH=525, RH=475 6771 Electric motor — w (light, audible) No std., opt., n.a.) Std. Electric vibration				
	Type (optional)		No Telltale lamp Light Electric gage N.A. Telltale lamp Light Electric gage Light Electric gage Light Electric gage Light Electric 2 speed with adjustable intermittent and mist operation LH=525, RH=475 6771 Electric motor No Std. Electric vibration			
Head-up display EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind-shield wiper Wind-shield washer Rear window with the control window window with the control window window with the control window window with the control window window window with the control window	Blade length		LH=525, RH=475			
	Swept area cm²(ii	n.²)	6771			
Trip odometer (std., opt., n.a.) Std. Standard, optional, not available Type Secondary, opto-electronic Speedometer Digital Status / warning indicators Brightness control Bright Telltale 1 Light Temperature indicator Warning device (light, audible) Brightness control Brightne	Electric motor					
	Type (optional)		-			
	Fluid level indicat	or (light, audible)	No			
Rear window w	riper, wiper/washer (std., opt., n.a.)				
Head-up display EGR maintenar Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind-shield wiper Wind-shield washer Rear window without	Туре		Electric vibration			
	Number used		2			
Other			-			

	Vehicle Line	TOYOTA	SUPRA_		
MVMA Specifications	Model Year			Aug., 19	
METRIC (U.S. Customary)					
	٠.				

MVMA	Speci	fications	Vehicle Line TOYOTA SUPRA Model Year 1995 Issued	Aug., 1994 Revised (*)				
METRIC (U.S. Cus	tomary)	MOUGH 1841 ISSUEN	novisou (1)				
Engine Code/	Description		2JZ-GE	2JZ-GTE				
Electrical	- Supply	System		<u> </u>				
	Manufactur	er	MATSUSHITA					
	Model, std.,	, (opt.)	M/T=75D26L, A/T=80D26L					
Battery	Voltage		12V, 90					
	Amps at 0°	F cold crank	M/T=490, A/T=582					
Dattery	Minutes-res	serve capacity	M/T=123, A/T=133					
	Amps/hrs	20 hr. rate	65					
	Location		Left front of engine comparts	ent				
	Manufactur	er	NIPPONDENSO					
	Rating (idle	/max, rpm)	12V, 90A	M/T=12V, 90A, $A/T=12V$, 100A				
Alternator	Ratio (alt. c	rank/rev.)	1:2.52	M/T=1:2.52, A/T=1:2.32				
	Output at id	ile (rpm, park)						
	Optional (ty	pe & rating)	-					
Regulator	Туре		IC regulator					
Electrical -	- Starting	g System						
	Manufacturer		NIPPONDENSO					
Motor	Current drain *C(*F)							
Motor	Power rating kw (hp)		1.4					
	Engagement type		Solenoid shift					
Motor drive	Pinion enga from (front,		Front					
Electrical -	- Ignitior	n System						
Турв	Electronic (std., opt., n.a.)	Std.	N.A.				
	Other (spec	zity)	N.A. TDI					
	Manufactur	er	NIPPONDENSO					
Coil	Model	 	N.A.					
	Current	Engine stopped - A	0					
	· - · · -	Engine Idling - A	0.8	0.7				
	Manufactur	er	NIPPONDENSO, NGK					
•	Model		NIPPONDENSO=PK16R11, NGK=BKR5EP11 NIPPONDENSO=PK20R11, NGK=BKR6EP11					
Spark	Thread (mn		14					
plug		torque N-m (lbft.)	17.7					
	Gap	····	1.1					
	Number per		1					
Distributor	Manufactur	er	NIPPONDENSO	N.A.				
	Model		N.A.					
Electrical -	- Suppre	ssion						
	Distr	ributor rotor	• •	N.A.				
Locations & type	<u> </u>	tension cord	COIU	N.A.				
	Spark	c plug	High resistance spark plug					

Page 16 MVMA-93

Vehicle Line TOYOTA SUPRA

			Model Year IssuedAug., 1994 Fievised (·)				
METRIC ((U.S. Cust	omary)					
Model Code/	Description		All models				
Body							
Structure			Unitized				
Bumper system front - rear			Both = Urethane fascia, energy absorber and reinforcement				
Anti-corresion	treatment		Extensive use of galvanealed steel sheet and PVC sealer, full dip pretreatment, cathodic ED, PVC undercoat, anti-chipping coat (anti-chipping PVC coating, soft-chipping primer)				
Body - M	iscellaneo	us Information					
Type of finish (lacquer, ename	d, other)	Enamel				
	Material & m	ass	Aluminum alloy, 12kg				
Hood	Hinge location	n (front, rear)	Rear				
	Type (counte	erbalance, prop)	Prop				
	Release con	trol (internal, external)	Internal				
	Material & m	-					
Trunk lid	1	orbalance, other)	<u>-</u>				
-		se control (elec., mech., n.a.)					
	Material & m		Steel, 25kg				
Hatch- back tid		orbalance, other)	Gas props				
	Material & m	se control (elec., mech., n.a.)	Mech				
	Type (drop,						
Tailgate		se control (elec., mech., n.a.)	-				
	·	Front	N.A.				
Vent window or friction, pivot, p		Rear	N.A.				
Window regula	tor hand	Front	Cable				
(cable, tape, ile	ior type ix drive, etc.)	Rear	N.A.				
		Front	Separate, spring + panel + form pad				
Seat cushion ty (e.g., 60/40 but		Rear	Bench, wire + form pad				
wire, foam, etc.		3rd seat	-				
2		Front	Spring + form pad				
Seat back type (e.g., 60/40, bu	ckel, bench.	Rear	Form pad				
wire, toam, etc.)	3rd seat					
Frame			·				
Type and descrunitized frame,	ription (separate partially-unitize	rame. d frame)	Unitized				

Vehicle Line TOYOTA SUPRA

Model Year 1995 Issued Aug., 1994 Revised (*)

METRIC	(U.S.	Custo	mar	Y)
	•		* *	• •

Model	Code/l	Description

All models

Restraint	System
-----------	--------

Seating Position			ł	Left	Center	Right		
Seeming 1 Using			 		Center			
	Type & description (lap & shoulder belt, lap belt, etc.)		First seal	3-point ELR Std.	N.A.	3-point ELR Std.		
Active		•	Second seat	3-point ELR Std.	N.A.	3-point ELR Std.		
•	description (lap & shoulder belt, lap belt, etc.) Standard / optional Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual lap belt) Standard / optional SAE Ref. No ass exposed m²(in.²) sosed surface total 2-sides s exposed m²(in.²) S3	1	Third seat	N.A.	N.A.	N.A.		
	Type &		First seat	Airbag Std.	N.A.	Airbag Std.		
Passive .	description (air bag, motorized 2-point belt, fixed b knee bolster, manu	elt,	Second seat	N.A.	N.A.	N.A.		
	Standard / optional		Third seat	N.A.	N.A.	N.A.		
Glass		SAE Ref. No.			•			
Windshield glas surface area cr		St	8980	0				
Side glass expo area cm²(in.²) -	osed surface total 2-sides	\$2	7010)				
Backlight glass surface area cr	exposed n²(in.²)	S3	8480)				
Total glass expo area cm²(in.²)	osed surface	S4	244	70	***			
Windshield glas	is (type / thickness)		Curv	ved, laminated, 4.7				
Side glass (type	e / thickness)		Curv	ved, tempered, door	=5, other=3.1			
Backlight glass	(type / thickness)		Curv	Curved, tempered, 3.5				
Tinted (yes / no	, location)		Yes,	Yes, windshield glass				
Solar control (ye coated / batched	es / no, d, location)		Yes,	batched, windshie	ld, side and back	light glasses		
Headlamps	6				- 			
Description (sea halogen, replace	aled beam, sable bulb, etc.)		Repl	aceable bulb, halo	gen			
Shape			Aero	dynamic-flush moun	ted			
Lo-beam type (2 2C1, etc.	2A1, 2B1,		N.A.					
Quantity			2					
Hi-beam type (1 2C1, etc.)	A1, 2A1, 1C1,		N.A.					

Quantity

2

Vehicle Line	TOYOTA	SUPRA			
Mode! Year	1995	Issued	Aug., 1994	Revised (•)	

Engine Cod	e/Description	All models				
Climate (Control System					
Air conditioni	ng (std., opt., man., auto.)	Std. = manual, auto				
	Туре	Multi flow type				
Condenser	Eff. face area (sq. mm.)	231210				
	Fins per inch	Pitch = 3.25mm				
Evaporator	Type	Drawn cup type				
	Eff. face area (sq. mm.)	61509				
	Fins per inch	Pitch = 4.5mm				
Heater core	Material	Aluminum				
	Etf. face area (sq. mm.)	31200				
	Fins per inch	Pitch=2.2mm				
	Туре	10PA17H				
Compressor	Displacement (cc.)	170				
,	Manufacturer	NIPPONDENSO				
	A/C pulley ratio	1.115				
	Туре	N.A.				
Accumulator	Height (mm.)	_				
	Diameter (mm.)	-				
	Туре	Normal				
Receiver	Height (mm.)	187				
	Diameter (mm.)	60				
Refrigerant co	ntrol (CCOT, TVS, etc.)					
	/alve (yes / no)	Yes				
	- 12, R - 134a, etc.)	R-134a				
Charge level (700g				
	ckout switch (yes / no)	-				
Wide open thin	ottle cutout switch (yes / no)	-				

						••	
 _	_	_	_				

Vehicle Line , Model Year _			Aug., 1994	Revised (•)		
	-	All m	nodels			

Model Code/Description		All models		
Convenie	ence Equipment (standard, option	nal, n.a.)		
Clock (digital	, analog)	Std. digital		
Compass / th		N.A.		
Console (floo	r, overhead)	Std. floor		
	etric windshield	N.A.		
	etric backlight	Electric backlight		
	Diagnostic monitor (integrated, individual)	-		
	Instrument cluster (list instruments)	-		
	Keyless entry	N.A.		
Electronic	Tripminder (avg. spd., fuel)	-		
	Voice alert (list items)	-		
	Other	-		
uel door loci	k (remote, key, electric)	Remote control		
	Auto head on / off delay, dimming	N.A.		
	Cornering	N.A.		
	Courtesy (map, reading)	Std.		
	Door lock, ignition	Std. (Ignition)		
	Engine compartment	N.A.		
amps	Fog	Std.		
	Glove compartment	Std.		
	Trunk	Std.		
	Illuminated entry system (list lamps, activation)	Std. Door key, ignition key and room lamps are lit by raising a door handle or opening a door.		
	Other			
	Day / night (auto, man.)	Manual		
lirrors	LH. (remote, power, heated)	Remote, power, heated		
	R.H. (convex, remote, power, heated)	Remote, power, heated		
	Visor vanity (RH / LH, illuminated)	RH only, no illumination		
avigation sy:	stem (describe)			
adiaa beska	-auto release (warning light)			

METRIC (U.S. Customary)

Model	Cadatha	scription
W COO!		ractipuon

Vehicle Line _	TOYOTA	SUPRA			
Model Year _	1995	Issued .	Aug., 1994	Revised (•)	
					
		111 mod	els	•	

Convenie	nce Equ	ipment (sta <u>ndard</u>	, optional	l, n.a.)

	Deck tid (release, pull down)					
	Door lock describe	es (manual, automatic, system)	Manual				
		2 - 4 - 6 way, etc.	4 way				
		Reclining (R.H., L.H.)	LH				
		Memory (R.H., L.H., preset rectine)	N.A.				
	Seats	Support (lumbar, hip, thigh, etc.)	N.A.				
ower quipment		Heated (R.H., L.H., other)	Opt. = LH and RH (leather)				
	Side wind	lows	-				
	Vent wind	iows	N.A.				
	Rear win	dows	N.A.				
	Antenna	(location, whip, w / shield, power)	Auto-antenna at RH quarter and rear glass-antenna				
	Standard	·	AM/FM ETR, tape theft deterrent, 6 spakers				
Radio Systems	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM ETR, tape, CD theft deterrent, equalizer - 7 speakers				
	Speaker	(number, location)	Std.=6, front doors + quarter trims + inst-panel + tweeters Opt.= 7, front doors + quarter trims + inst-panel + tweeters + woofer on deck				
loof: open ai	r or fixed (flip	-up, sliding, "T")	Fixed or Detachable (sport roof)				
ontro	device		Std				
peed warnir	g device (ligh	nt, buzzer, etc.)	N.A.				
achometer ((ma	· · · · · · · · · · · · · · · · · · ·	8000				
elephone sy	stem (descrit	Xe)	N.A				
heft deterre	nt system		Std.				

Trailer Towing

Towing capable	Yes / No	Yes	
Engine / transmission / axle	Std / Opt	Std.	
Tow class (I, II, III)*	Std / Opt	-	
Max. gross trailer wgt. (lbs.)	Std / Opt	1000	
Max. trailer tongue load (lbs.)	Std / Opt	100	
Towing package available	Yes / No	No	

Vehicle Line	TOYOTA	SUPRA			•
Model Year	1995	Issued	Aug., 1994	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.

Model Code/Description	SAE	
Width	Ref. No.	All models
•		,
Tread (front)	W101	1520
Tread (rear)	W102	1525
Vehicle width	W103	1810
Body width at Sg RP (front)	W117	1784
Vehicle width (front doors open)	W120	3762
Vehicle width (rear doors open)	W121	No rear doors
Tumble-home (degrees)	W122	33.5°
Outside mirror width	W410	1987.5
Length		
Wheelbase	L101	2550
Vehicle length	L103	4515
Overhang (front)	L104	950
Overhang (rear)	L105	1015
Upper structure length	L123	2565
Rear wheel C/L "X" coordinate	L127	2550
Height **		
Passenger distribution (front/rear)	P01,2,3	**
Trunk/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	75.5°
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/rear)	H153	165
Min. running ground clearance	H156	120
ocation of min, run, grd, clear.	1 1	Exhaust pipe
		

^{* *} 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 Specificati	ons	Vehicle Line TOYOTA SUPRA Model Year 1995 Issued Aug., 1994 Revised (*)
METRIC (U.S. Customary Vehicle Dimensions Sec		
Model Code/Description	Í	All models
	SAE	
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 angle (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, cntr	L11	484
Accel, heel pt. to steer, whi, cntr	H17	562
Undepressed floor covering thickness	H67	21.0
Rear Compartment		ront Compartment Interior Dimensions Are Measured With The Seating Reference Point (SgRP) orward Andmm Upward of Rearmost Position.
SgRP point couple distance	L50	517
Effective head room	H63	834.5
Min. effective leg room	L51	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
	L47	97.8
Foot angle (degrees)	H73	34.5
Foot angle (degrees) Depressed floor covering thickness	1 1113	
Depressed floor covering thickness	V1	_

Vehicle class	Mini-compact
Interior volume index including trunk/cargo (cu. ft.)**	Standard roof=79.5, sport roof=79.3
Trunk/cargo index (cu. ft.)	10.1

Interior Volumes (EPA Classification)

MVMA-93 Page 23

^{*} See page 14.

** See definition page 33.

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

*** EPA Loaded Vehicle Weight, Loading Conditions

MVMA	Spe	cific	ati	ions	5
------	-----	-------	-----	------	---

 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1995
 Issued Aug., 1994
 Revised (*)

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definition

Model Code/Description		All models
Station Wagon / MPV* — Third Seat	SAE Ref. No.	
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	LB7	-
Back angle (degrees)	L88	_
Hip angle (degrees)	L89	-
Knee angle (degrees)	L90	-
Foot angle (degrees)	L91	<u></u>
Station Wagon / MPV* — Car	go Space	
Cargo length (open front)	L200	-
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	1203	_
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	-
Cargo width (wheelhouse)	W201	-
Rear opening width at floor	W203	
Opening width at belt	W204	<u>-</u>
Min. rear opening width above belt	W205	•
Cargo height	H201	-
Rear opening height	H202	-
Tailgate to ground height	H250	
Front seat back to load floor height	H197	-
Cargo volume index m³(ft.³)	V2	-
Hidden cargo volume index m³(ft.3)	V4	<u> </u>
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)	1209	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.³)	V3	502.2
Hidden cargo volume index m³(ft.³)	V4	0
Cargo volume index-rear of 2-seat	V11	285.0

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

MVMA-93 Page 24

^{*}MPV - Multipurpose Vehicle

^{**} EPA Loaded Vehicle Weight, Loading Conditions

MVMA	Specifications
-------------	-----------------------

Vehicle Line	TOYOTA	SUPRA				
Model Year _	1995	Issued	Aug., 1994	Revised ()	

Model C Descript		All models					
Vehicle	∟ e Fiduci	al Marks					
Fiducial A	Aark ·						
Number*		Define Coordinate Location					
	i						
	1						
	1						
Front(1)	1						
, ,							
Front(2)		Center of front semi-circular knotch in rocker panel flange					
		for front jack-up point					
	.	Rh. 3					
	1						
Rear(1)							
	į	Piducial Mark					
		Located Rere					
Rear(2)	}	Center of back-most semi-circular knotch in rocker panel flange					
	ı	for rear jack-up point					
		8 p.					
Note: Pro	vide	 _					
iducial M ocations		/Fiducial Mark					
200013		Located Here					
	W21"	Standard roof = W6 + 89.4, sport roof = W6 + 90.4					
	L54**	L15 + 30.5					
ront	H81**	H9 + 71.5					
***	H161**	175					
	H163**	165					
	W22**	Standard roof = W7 + 15.7, sport roof = W7 + 14.4					
	L55**	L29 + 30.5					
Rear	H82**	H9 + 61.9					
***	H162**	165					
***	H164**	155					
	-						
	1						
	-						

^{*} 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	SUPRA			•
Model Year _	1995	Issued	Aug., 1994	Revised (•)	

		Vehicle Mass (weight)				% PAS	S MASS	DISTRIE	UTION	
<u> </u>		CURB MASS /kg (h): 1bs.		lbs. lbs. shipping		Pass	in Front	Pass in	Rear	
Code	Model	Front	Rear	Total	SHIPPING MASS -kg(lb)***	ETWC** Code	Front	Rear	Front	Rear
JZA80L-ALMVFA		1680	1530	3210	3107	V	38	62	18	82
JZA80L-AJMVFA		1705	1565	3270	3167	V	38	62	18	82
JZA80L-ALPVFA		1715	1550	3265	3162	V	38	62	18	82
JZA80L-AJPVFA		1740	1585	3325	3222	V	38	62	18	82
JZA80L-ALFVZA		1885	1560	3445	3342	W	38	62	18	82
JZA80L-AJFVZA		1910	1595	3505	3402	Х	38	62	18	82
JZA80L-ALPVZA		1895	1560	3455	3352	Х	38	62	18	82
JZA80L-AJPVZA	<u> </u>	1920	1595	3515	3412	. Х	38	62	18	82
		<u> </u>					ļ			
, ,, <u></u>							<u> </u>			
		4					ļ		<u> </u>	
	<u>.</u> .						ļ			
 										
• •				-						
		<u> </u>		-						
							<u> </u>			
		1								
						<u>. </u>	<u> </u>			
	· · · · · · · · · · · · · · · · · · ·									
·										
			,							
									:	_
										-
					• 1					
					į	<u>-</u>				
···		1 1		·						
		 		~ -					 	
	 	1								
										_
		 					 		 	
		 					-			
		 								

	ETWC LEGEND						
Α	= 1000	1	= 2000	Q	= 3000	Y	= 4000
₿	= 1125	J	= 2125	R	= 3125	z	= 4250
С	= 1250	K	= 2250	S	= 3250	AA	= 4500
D	= 1375	L	= 2375	Т	= 3375	88	= 4750
E	= 1500	M	= 2500	U	= 3500 .	CC	= 5000
F	≈ 1625	N	= 2625	V	- 3625	DD	≈ 5250
G	= 1750	0	= 2750	W	= 3750	EE	= 5500
Н	= 1875	P	= 2875	×	= 3875	FF	= 5750

"Shipping Mass (weight) # Curb Weight Less:	103	11
		_

^{*} 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

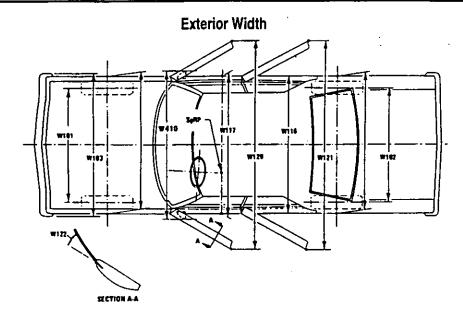
Vehicle Line	TOYOTA	SUPRA				
Model Year _	1995	Issued	Aug., 1994	Revised	(+)	

		Optional	Equipment I	Differential Mass (weight)*		
		MASS, kg. ((Ib.)	Daniel .		
Code Equipment	Front	Rear	Total	Remarks Restrictions, Requirements		
Limited slip differential	0	2.1	2.1	For 2JZ-GE Engine		
Leather seat	1.2	1.0	2.2	TOT ZOO OL ENGINE		
Audio (7sp)		15.0	12.7			
Rear spoiler	-0.6	4.2	3.6	For 2JZ-GTE Engine		
· · · · · · · · · · · · · · · · · · ·				TOT TOO OIL BUSINE		
						
			-			
				•		
·						
·						
,,	<u></u>					
		<u> </u>				
						
						
		 				
			, <u>-</u>			
		· ·				
	- 					
		_				
		-				
		_				
						
		_				
	 					
NSO See Engine - General Section for dressed engine mass (wee						

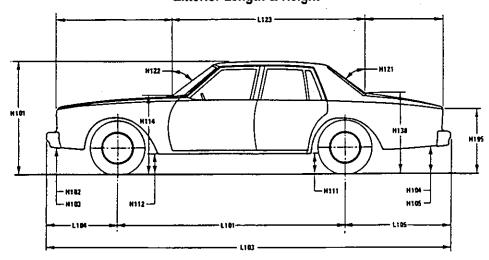
^{*} Also see Engine - General Section for dressed engine mass (weight),

METRIC (U.S. Customary)

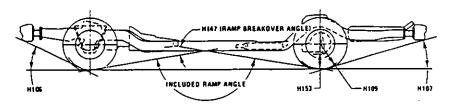
Exterior Vehicle And Body Dimensions — Key Sheet



Exterior Length & Height



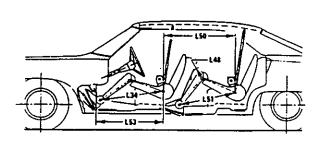
Exterior Ground Clearance

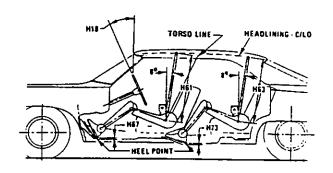


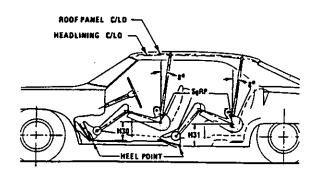
MVMA Specifications Form

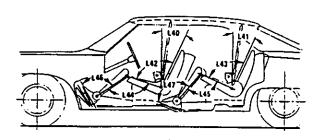
METRIC (U.S. Customary)

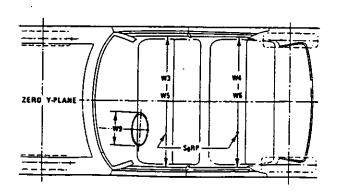
Interior Vehicle And Body Dimensions — Key Sheet

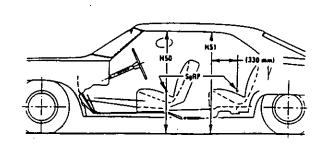






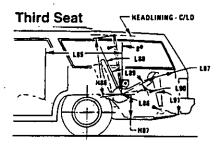


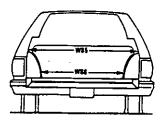




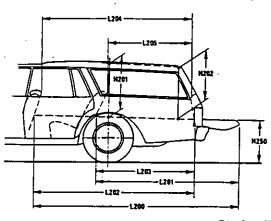
METRIC (U.S. Customary)

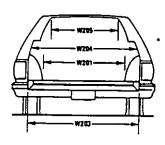
Interior Vehicle And Body Dimensions - Key Sheet



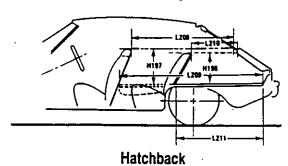


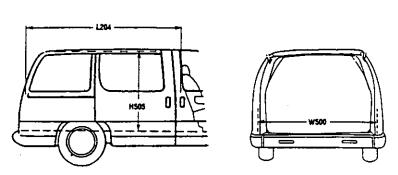
Cargo Space





Station Wagon





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

(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

W101 TREAD - FRONT. The dimension measured between the tire

centerlines at the ground.

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

VEHICLE WIDTH. The maximum dimension measured W103 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 WIDTHAT SgRP - FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or

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 on only one side, this dimension is to the zero "Y" plane.
TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle

W122 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 to a chord extending from the upper DLO to the lower DLO

at the outside surface of the front door glass at the front SgRP "X" plane.

OUTSIDE MIRROR WIDTH: The dimension between the 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 axles, 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.

L105 OVERHANG - REAR. The dimension measured longitudinally 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.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the 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 H101 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.

H114 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle H121 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 vertical reference line and a chord of the windshield arc H122 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 manufacturer in accordance with composite TIRE SECTION H109

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 equipment.

H103 FRONTBUMPERTOGROUND - CURB MASS (WT.). Measured in the same manner as H102.

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard quipment.

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

ANGLE OF APPROACH. The angle measured between a H106 line tangent to the front tire static loaded radius arc and the 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 roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

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

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

Glass Areas Windshield area. S1 **S2** Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.

Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Backlight areas.

53

H162

H164

	Fiducial Mark - Number 1
L54	"X" coordinate.
W21	"Y" coordinate.
H81	"Z" coordinate.
H161	Height "Z" coordinate to ground at curb weight.
H163	Height "Z" coordinate to ground.
	Fiducial Mark - Number 2
L55	"X" coordinate.
W22	"Y" coordinate.
W82	"Z" coordinate.

Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. Front Compartment Dimensions

- L11 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.
- L17 DESIGNH-POINT - FRONTTRAVEL The dimension measured horizontally between the design H-point - front in the foremost and rearmost seat track positions. (See SAE
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track tavel used for purposes other than normal driving and riding positions. (See SAE J1100).

 SgRP - FRONT. "X" COORDINATED.

 MAXIMUMEFFECTIVELEGROOM - ACCELERATOR. The
- L34 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 to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- BACK ANGLE FRONT. The angle measured between a vertical line through the SgRP front and the torso line. If the 1-40 seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- HIP ANGLE FRONT. The angle measured between torso L-42 line and thigh centerline.
- KNEE ANGLE FRONT. The angle measured between thigh L44 centerline and lower leg centerline measured on the right
- FOOT ANGLE FRONT. The angle measured between the L46 lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref **SAE J826**
- SgRP FRONTTO HEEL. The dimension measured horizon-**L53** tally from the SgRP - front to the accelerator heel point.
- W3 SHOULDER ROOM - FRONT. The minimum dimension measured 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 door assist strap and attaching parts.

- HIP ROOM-FRONT. The minimum dimension measured W5 laterally between the trimmed surfaces on the "X" plane through the SgRP - front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP - front and 76 mm (3.0 in.) fore and aft of the SgRP - front.

 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
- W9 Define if other than round.
- **H7** ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP-front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel,
- SgRP FRONT TO HEEL The dimension measured vertically H30
- from the SgRP front to the accelerator heel point.
 UPPER BODY OPENING TO GROUND FRONT. The H50 dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane. EFFECTIVE HEAD ROOM – FRONT. The dimension meas-
- H61 ured along a line 8 deg. rear of vertical from the SgRP - front
- to the headlining plus 102 mm (4.0in.).
 FLOOR COVERING THICKNESS UNDEPRESSED -H67 FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- BACK ANGLE SECOND. The angle measured between a
- vertical fine through the SgRP second and the torso line. HIP ANGLE SECOND. The angle measured between torso L43
- line and thigh centerline.

 KNEE ANGLE-SECOND. The angle measured between L45 thigh centerline and lower leg centerline.
- L47 FOOT ANGLE - SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- KNEE CLEARANCE SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- SgRP COUPLE DISTANCE SECOND. The dimension meas-L50 ured horizontally from the driver SgRP-front to the SaRP-second.
- MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center
- to the SgRP-second plus 254 mm (10.0 in.). SHOULDER ROOM-SECOND. The minimum dimension W4 measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP - second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM - SECOND. Measured in the same manner as W5.
- H31 SgRP - SECOND TO HEEL. The dimension measured vertically from the SgRP - second to the two dimensional device heel point on the depressed floor covering
- H51 UPPER BODY OPENING TO GROUND - SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.)
- forward of the SgRP second.

 EFFECTIVE HEAD ROOM SECOND. The dimension meas-**H63** ured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.). FLOORCOVERING – DEPRESSED – SECOND The dimension
- H73 measured vertically from the heel point to the underbody sheet metal.

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 EFFECTIVE LEG ROOM THIRD. The dimension measured along a line from the ankle pivot center to the SgRP third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE 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.
- H86 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 CARGOLENGTH 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 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 tallgate at the height of the belt, on the zero "Y" plane.
- W201 CARGOWIDTH 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 "Y" plane.
- 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

V2	STATION WAGON -	Hato	hback – Cargo Space Dimensions
	Measured in inches:	Ali ha	Atchback cargo dimensions are to be taken with the force
	W4 x H201 x I 204	111 1115	I DOWN AND IRREPOSITION AND THE PARK ASSESSED IN
	$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft}^3$	Hatch	PACK UDULIS IN INC. CIOSAG DOSITION (For electronically addition)
	Measured in mm:	36912	, see the manufacturers specifications for Decise "L" Decise
		L208	CANGO LENGIH AI PHONT SEATRACK HEIGHT TH
	$\frac{\text{W4} \times \text{H201} \times \text{L204}}{10^9} = \text{m}^3 \text{ (cubic meter)}$		minimum nonzontal dimension from the "Y" plane tapean
			to the rearmost surface of the driver's seatback to the inside
V4	HIDDEN LUGGAGE CAPACITY REAR OF FRONT SEAT.		limiting interference of the hatchback door on the vehicle zero "Y" plane.
	The total volumes of individual pieces of one set of standard	L209	CARGO LENGTH AT FLOOR - FRONT. The minimum hori
	luggage stowed in any hidden cargo area below the load		ZONTAL CIMENSION MEASURED At floor level from the rear of the
	floor rear of the front seat.		IFONE SeatDack to the normal limiting interference of the
V5	TRUCKS AND MPV'S WITH OPEN AREA.	1040	halchback door on the vehicle zero "Y" name
• •		L210	
	Measured in inches:		minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor
	$\frac{1.506 \times W505 \times H503}{1728} = R^3$		which is stowed at least one half of the H198 dimension
	1728 = 11 ³		height above the rear load floor to the reprocest inside
	Measured in mm:		limiting interference on the zero "X" plane
	$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$	L211	CARGO LENGTH AT FLOOR - SECOND SEATRACK The
	109 = m³ (cubic meter)	•	minimum horizontal dimension measured at floor level from
/6 ·	TRUCKS AND MPV'S WITH CLOSED AREA.		the rear of the second seatback or load floor panel to the
			normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
	Measured in inches:	H197	FRONT SEATBACK TO LOAD HEIGHT. The dimension
	L204 x W500 x H505		Measured vertically from the horizontal tangent to the too
	$1728 = \pi^3$		Of the seatback to the undebressed floor covering
	Measured in mm:	H198	SECOND SEATBACK TO LOAD FLOOR HEIGHT! The
	L204 x W500 x H505		dimension measured vertically from the second seathack
	<u>1204 x W500 x H505</u> 10 ⁹ = m³ (cubic meter)	V3	to the undepressed floor covering.
18	HIDDENLUGGAGE CAPACITY - REAR OF SECOND SEAT.	V3	HATCHBACK. Measured in inches:
•	The total volume of individual pieces of one set of standard		
	luggage stowed in any hidden cargo area below the load		L208 + L209 x W4 x H197
	1/00f fear of the second seat		
10	STATION WAGON CARGO VOLUME INDEX.		1728 = ft ³
	Measured in inches:		Measured in mm:
	H201 x L205 x W4 + W201		L208 + L209 x W4 x H197
	2 =ft ³		7
	1728 = ft ³		10 ⁹ = m ³ (cubic meter)
	Measured in mm:		10 (0000)
	H201 x L205 x W4 + W201	V4	HIDDEN HOOMS CARACIDA TELECOTORIO
		V-4	HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard
	2 = m ³ (cubic meter)		luggage stowed in any hidden cargo area below the load
	10a — III. (const tustst)		Ifoor rear of the front seat.
		V11	HATCHBACK CARGO VOLUME INDEX, Usable luggage
	•		(one (1) stand and luggage set) below floor:
			Measured in inches:
			L210 + L211 v W4 v H108
			2
			$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = H^3$
			Measured in mm:
			L210 + L211 x W4 x H198
			2
			109 = m ³ (cubic meter)

METRIC (U.S. Customary)

Index

Subject	Page No.	Subject	Page No
Alternator	16		•
Axle Drive, Front, Rear, All Four	2040	Passenger Capacity	
Axle Shafts	2, 9, 10	43301.001.0023 DISHIDDIN	_
Pattoni		FISIONS	
Battery	<u>16</u>	rower Brakes	
Body and Miscellaneous Information .		rower, Engine	
Brakes - Parking Service	12,13	rower Steering	
Camber	15	rower reams,	
Camshaft	<i></i> . 3	Propeller Snan	_
Capacities Cooling System		rumps – Fuel	
Cooling System	, , , , , , , , , , , , , , , , 5	water	
Fuel Tank	<i></i> . 6	Radiator - Cap, Hoses, Core	
		natios – Axie, transaxie	201
Engine Crankcase	4	Compression	
Rear Axie		Steering	
Carburetor		ransmission / Transaxle	. 20
Caster		Hear Axie	2 10
Climate Control System	10	regulator - Alternator	1.
Civich - Pedal Operated.		Restraint System	
Coll, ignition	16	Rims	
Connecting Hods	4	Rods - Connecting	
Convenience Equipment	20-21	Scrub Radius	
Cooling System	. .	Seas	4.
Cranksnan		Shock Absorbers, Front & Rear	4.
Cylinders and Cylinder Head	3	Spark Plugs	• *
Diesel Information	*	Speedometer	
Ulmension Definitions		Springs - Front & Rear Suspension	
Key Sheet - Exterior		Stabilizer (Sway Bar) - Front & Rear	
Key Sheet - Interior	29 30 32 33 34	Starting System	
Electrical System	45.40	Steering .	
Emission Controls	13, 15	Suppression – Ignition, Radio	
Engine - General		The state of the s	
Bore, Stroke, Type	2	Tail Pipe	7
Compression Hatio	. 9	ineπ Protection	91
Displacement	2 3	Thermostat, Cooling	5
Firing Order, Cylinder Numbering	2	Tires	
General information, Power & Torolla	2	Toe-in	
make System	4	Torque Converter	········
rower reams	•	Torque – Engine	2,8,9
Exhaust System	7	Trailer Towing .	<i>.</i> 21
Equipment Availability, Convenience	20	Transaxie Transmission - Types	
Fan, Cooling		Transmission - Automatic.	
FIXERS - Engine Util, Fixel System	A	Transmission – Manual	
rour wheel unve	10	Transmission - Ratios	· · · · · · · · · · · · ·
rrame	17	Tread	
Front Suspension	44	Trunk Cargo Load	
rioni wheel Drive Unit	10	Trunk Luggage Capacity	22
ruel Economy, EPA	•	Turning Diameter	
ruer injection	£	Unitized Construction	
ruei System	2	Universal Joints, Propeller Shaft	
-uerrank,	· · · · · · · · · 6	train of the second of the sec	10
Glass	10	Valve System	
leadlamps		Vehicle Dimensions	
Headroom - Body		Width	· · · · · · · · · · · ·
leights		Length	· · · · · · · · · · · · · · 22
lorns		Height	<u>22</u>
forsepower - Brake		Front Compartment	
noiting Contam		Rear Compartment	· · · · · · · · · · · · · · · 23
gnition System	· · · · · · · · · · · · · · · · · · ·	Luggage Compartment	
nterior Volumes		Station wation ~ Initi Seri.	24
nstruments	· · · · · · · · ·	Station Wagon - Cargo Space	24
	15	Hatchback - Caroo Space	24
egroom	23, 24	Fiducial Marks	25
engths	22	Voltage Regulator	16
eveling, Suspension		Water Pump	
ifters, Valve	· · · · · · · · · · · · · 4	Weights	
inings - Clutch, Brake	8, 12	Wheel Alignment	26, 27
uoncation — Engine Transmission / Transaxle	490	Wheelbase	
uggage Compartment		Wheels & Tires	
fodels		Wheel Spindle	
lotor Starting .	16	Widths	
fuffler	7	Windshield	10
Origin		Windshield Wiper and Washer	
775917 * * * * * * * * * * * * * * * * * * *	1		