# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

1997

Manufacturer

TOYOTA MOTOR CORPORATION

Mailing Address

Toyota Motor Sales, U.S.A., Inc. 19001 S. Western Avenue Torrance, CA 90509 Vehicle Line

TOYOTA SUPRA

Issued

Aug., 1996

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.



Motor Vehicle Manufacturers Association 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 Chang	jε
2	Power Teams From Previous Year	
3	Engine	
4	Lubrication System	
4	Diesel Information	
5	Cooling System	
6	Fuel System	
7	Vehicle Emission Control	
7	Exhaust System	
8-10	Transmission, Axles and Shafts	
11	Suspension	
12-13	Brakes, Tires and Wheels	
14	Steering	
15-16	Electrical	
17	Body - Miscellaneous Information	
17	Frame	
18	Restraint System	
18	Glass	
18	Headlamps	
19	Climate Control System	
20-21	Convenience Equipment	
21	Trailer Towing	
22-24	Vehicle Dimensions	
25	Vehicle Fiducial Marks	
26	Vehicle Mass (Weight)	
27	Optional Equipment Differential Mass (Weight)	
28-34	Vehicle Dimensions Definitions - Key Sheets	
35	Index	

#### NOTE:

- 1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
- 2. UNLESS ÓTHERWISE 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 SI	JPRA			
Model Year _	1997	Issued_	Aug., 1996	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

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Data	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 JZA80L-AJMVFA JZA80L-ALPVFA JZA80L-AJPVFA JZA80L-ALFVZA JZA80L-AJFVZA JZA80L-AJFVZA	2/2 2/2 2/2 2/2 2/2 2/2 2/2	125 125 125 125 125 125 125	18/23 18/23 18/24 18/24 17/24 17/24 19/24

Vehicle Line	TOYOTA	SUPRA			
Model Veer	1997	Issued	Aug., 1996	Bayisad()	

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(i	ement in³)	2.997(183)	-	2.997(183)	-
шZG	Inductio (FI,Car	on system b,etc.)	EFI		EFI with turbo	_
G-2E	Compre ratio	ession	10.0		8.5	-
Ë	SAE Net	Power kW(bhr)	164(220)/5800		239(320)/5600	-
	at RPM	Torque N · m(lb.ft.)	285(210)/4800	-	427(315)/4000	-
	Exhaus single,		Semi-dual		Semi-dual	4
-RAZS	Transm Transa		5M/T	4A/T	6M/T	4A/T
828		e Final Drive/ atio(std.first)	4.083	-	3.133	3.769

Series Ava	ilability	Power Team	is(A-B-C-D)	
Model	Code	Standard	Optional	
2-door Lift-back,5M/T, RWD	JZA80L-ALMVFA	A	-	
2-door Lift-back,5M/T, RWD	JZA80L-AJMVFA	A	<del>-</del>	
2-door Lift-back,4A/T, RWD	JZA80L-ALPVFA	В	_	
2-door Lift-back,4A/T, RWD	JZA80L-AJPVFA	В	-	
2-door Lift-back,6M/T, RWD	JZA80L-ALFVZA	C		
2-door Lift-back,6M/T, RWD	JZA80L-AJFVZA	C	<u> </u>	
2-door Lift-back,4A/T, RWD	JZA80L-AJPVZA	D		
		<u></u>		
				<del></del>
	·			
				<del></del>
	· · · · · · · · · · · · · · · · · · ·			
			<del> </del>	
	<del></del>			
			<del></del>	

TOYOTA SUPRA Vehicle Line 1997 Issued Aug., 1996 Model Year Revised(+)

### METRIC(U.S. Customary)

Engine Description Engine Code

2JZ-GE

2JZ-GTE

#### ENGINE - GENERAL

ption (inline, V, angle, front, mid, rear, ngitudinal, sohe, dohe, dge, pre-chamber, etc.)	Inline, front, longitudinal, DOHC, pentroof			
	TOYOTA MOTOR CORPORAT	ION		
rs	6	1011		
	86.0			
	86.0			
C/L to C/L)	93.0			
naterial & mass kg(lbs.)(machined)	Cast iron, 58.7			
deck height	219.0			
length	615.5			
o (minimum) w block)	0			
material & mass kg(lbs.)	Aluminum alloy, 19.5	Aluminum alloy, 19.6		
volume cm² (inches²)	43.9	44.9		
material	N.A.			
ickness	0.4	1.35		
bustion chamber n' (inches')	55.7	66.5		
L. Bank	1-2-3-4-5-6			
R. Bank		-		
	1-5-3-6-2-4			
material & mass kg(lbs.)**	Aluminum alloy, 7.8	Aluminum alloy, 6.0		
old material & mass kg(lbs.)**	Stainless steel, 2.8	Cast steel, 4.7		
number & location)				
inleaded, diesel, etc.				
index (R + M) + 2	91			
Quantity	Fr.=2, Rr.=1	· · · · · · · · · · · · · · · · · · ·		
Engine Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)  Elastomeric				
Added isolation (sub-frame, crossmember, etc.)	Crossmember, Support member			
ngina mass(wt) dry***	A/T:185, M/T:194	A/T:237, M/T:252		
Pistons		1 1.201, 171/ 1.202		
is, g Itan only	Aluminum alloy, 385	Aluminum alloy, 369		
amshaft	•	I		
	front, mid, rear, gitudinal, soho, doho, dge, pre-chamber, etc.)  IS  C/L to C/L) Insterial & mass kg(lbs.)(machined) deck height length I (minimum) I block) I material & mass kg(lbs.) I wolume cm² (inches²) I wolume cm² (inches²) I L. Bank I R. Bank I Bank I Material & mass kg(lbs.)** I cold material & mass kg	Inline, front, longitudinal, DOH  groundinal, sohe, dohe, dige, pre-chamber, etc.)  TOYOTA MOTOR CORPORAT  86.0  86.0  86.0  2/L to C/L)  93.0  naterial & mass kg(lbs.)(machined)  length  (minimum)  w block)  material & mass kg(lbs.)  material & mass kg(lbs.)  material & mass kg(lbs.)  material & mass kg(lbs.)  material & n.A.  ickness  0.4  bustion chamber  n' (inches')  L. Bank  1-2-3-4-5-6  R. Bank  1-5-3-6-2-4  d material & mass kg(lbs.)**  Aluminum alloy, 7.8  but did material & mass kg(lbs.)**  Stainless steel, 2.8  number & location)  neleded, diesel, etc.  Unleaded premium gasoline required index (R + M) + 2  Quantity  Added isolation (sub-frame, crossmember, etc.)  Added isolation (sub-frame, crossmember, etc.)  Pistons  Aluminum alloy, 385		

Location  Material & mass kg (weight, lbs.)		Cylinder head		
		Cast iron, 3.2/3.3	Cast iron, 3.3/3.3	
Drive type	Chain / belt	Timing belt		
	Width / pitch	25.4/8.0		<u> </u>

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

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

Vehicle Line _	TOYOTA SU	JPRA				
Model Year _	1997	Issued _	Aug.,	1996	Revised(+) _	

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

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

#### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		N.A.
	Number intake/exhaust	12/12
Valves	Head O.D. intake/exhaust	33.5/29.0

#### Engine - Connecting Rods

Material & mass kg.,(weight,lbs.)*	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	ing(no.)	No.4	
Length & number of mai	n bearings	701, 7	
Seal(material,one,two Front		Synthetic rubber, one piece	
piece design, etc.)	Rear	Synthetic rubber, one piece	

#### Engine - Lubrication System

Normal oil pressure kPa(psi) at engine rpm	340/2000	290/2000	
Type oil intake(floating,stationary)	Stationary		
Oil filter system(full flow.pert.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	rrent 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	y vacuum source(type)	
Fuel heater(ye	es/no)	
Water separat (std.,opt.)	or, description	
Turbo manufa	ecturer	
Oil cooler-type oil to ambient	e(oil to engine coolant; air)	
Oil filter		

#### Engine - Intake System

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

<sup>\*</sup>Finished State

TOYOTA SUPRA Vehicle Line Model Year 1997 Issued Aug., 1996 Revised(•)

Engine Description Engine Code		2JZ-GE	2JZ-GTE	
Engine -	Cooling System			
Coolant reco	very system(std., opt., n.e.)	Std.		
Coolant fill I	ocation(rad., bottle)	Reservoir tank	<del></del>	
	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	vo z. min.	
Water Dump	Drive(V-belt, other)	V-belt		
, op	Bearing type	Roller ball		
	Impeller material	Resin		
	Housing material	Aluminum alloy		
By-pass recir	culation type(inter., ext.)	External	<del></del>	
Cooling	With heater-L(qt.)	M/T=7.3, A/T=8.3	M/T=8.9, A/T=8.8	
system	With air conditioner-L(qt.)	M/T=7.3, A/T=8.3	M/T=8.9, A/T=8.8	
Opt.equipment specify-L(qt.)		N.A.	1 2 0:0; 11: 1 -0:0	
Water jacket:	s full length of cyl.(yes,no)	Yes		
Water all around cylinder(yes,no)		No		
Water jackets 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., ibs.)	Aluminum, M/T=2.7, A/T=4.2	Aluminum alloy, M/T=4.0, A/T=4.4	
20. 6	Width	737	1 Additional alloy, 10/1 - 4.0, A/1 - 4.4	
	Height	399		
	Thickness	M/T=16, A/T=27	27	
	Fins per inch	M/T=20, A/T=14.5	20	
Radiator end	tank material	Resin		
	Std., elec., opt.	Std.	Std -Mai- Pit-iStd A/P 1	
	Number of blades & type (flex, solid, material)	7. flex, plastics	Std.=Main, Electric=Sub(A/T only) 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)	
an	Ratio(fan to crankshaft rev.)	1.25	1.25(main)	
Gi1	Fan 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.)		Thormo Santon at water outlet (SUU)	
	Fan shroud(material)	Resin	<del></del>	

Location(eng., tank)

Pressure range kPa(psi)

Flow rate at regulated pressure L(gal)/hr @kPa(psi) 
 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1997
 Issued
 Aug., 1996
 Revised(+)

353

Minimum 180 at 353

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

Engine Description Engine Code

2JZ-GE 2JZ-GTE

Induction type: Carburetor, fuel injection system, etc.		Sequential multi-port fuel injection		
Manufacturer		NIPPONDENSO		
Carburetor no. of barrels		N.A.		
dle A/F mix.		Preset at manufacturer		
Point of injection(no.)		6		
uel	Constant, pulse, flow	Pulse flow		
rjection	Control(electronic, mech.)	Electronic		
	System pressure kPa(psi)	284	250	
dle spdrpm	Manual	Preset-not adjustable		
spec. neutral r drive and				
ropene if	Automatic	Preset-not adjustable		
ised)				
Intake menifold heat control(exhaust or water thermostatic or fixed)		N.A.		
Air cleaner type		Paper element type		
uel filter(type	s/location)	Paper element type, under floor		
	Type(elec. or mech.)	Electric	<del> </del>	

in tank

Minimum 125 at 323

323

#### Fuel Tank

Fuel

pump

Capacity refi	II L(gallons)	70		
Location(describe) Attachment		Underside of trunk floor		
		Bands and Bolts		
Material & N	fass kg(weight lbs.)	High density polyethylene		
Filler	Location & material	Right quarter panel, high density polyethylene		
pip <del>a</del>	Connection to tank	As one		
Fuel line(ma	terial)	Steel		
Fuel hose(m	aterial)	Rubber		
Return line(a	material)	Steel		
Vapor line(n	apor line(material) Steel			
	Opt., n.a.			
Extended	Capacity L(gallons)			
range ank	Location & material			
	Attachment			
	Opt., n.a.			
•	Capacity L(gallons)			
Auxiliary	Location & material			
ank	Attachment			
	Selector switch or valve			
	Separate fill			

Vehicle Line TOYOTA SUPRA
Model Year 1997 Issued

METRIC(U.S. Customary)

Engine	Description
Engine	

2JZ-GE 2JZ-GTE

Issued Aug., 1996 Revised(+)

Vehicle Emission Con	trol	
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	Type(air modifica	r injection, en itions, other)	gine	SFI + EGR + HO, S + TWC	SFI + CAC + EGR+ HO <sub>2</sub> S + TC + TWC	
		Pump or pu	ise	N.A.		
	Air	Driven by		N.A.		
	injection	Air distribut (head, meni		N.A.		
		Point of entr	У	N.A.		
	Exhaust	Type(control open orifice,		Contoiled flow		
Exhaust	Gas Recircula-	Exhaust source		Cylinderhead		
Emission Control	tion			Intake manifold	Surge tank	
		Туре		TWC		
		Number of		1		
		Location(s)		Exhaust manifold	Under floor	
	Catalytic Converter	Volume L (in²)		1.335	1.164	
		Substrate type		Metal foil		
		Noble metal type		Pt. Rh		
		Noble metal concentration	(g/cm³)	Pt:2.00, Rh:0.53	Pt:1.57. Rh:0.29	
	Type(ventinduction	tilates to atmo system, other	osphere, r)	Induction system closed type		
rankcase mission	Energy source(manifold vacuum, carburetor, other)			Manifold vacuum		
Control		Discharges to(intake manifold, other)		To intake manifold	To surge tank	
<u> </u>	Air inlet(breather cap, other)		other)	From air cleaner	From air inlet tube	
vapora-	Vapor ven (crankcas	Vapor vented to Fuel tank		Canister		
mission	canister, other)		Carburetor	N.A.		
ontrol	Vapor storage provision		п	Charcoal canister		
ectronic	Closed loop(yes/no)			Yes		
stem	Open loop(	(yes/no)		No		

### Engine - Exhaust System

Type(sing dual, othe	ple, single with cross-over. ir)	Semi dual	
Muffler no. & type (reverse flow, straight thru, separate resonator)Material & Mass kg(weight lbs.)		1, reverse flow, 2, straight thru Stainless steel 2.6/2.6/6.1	1. reverse flow Stainless steel 6.8
Resonator no. & type		N.A.	
- · · · ·	Branch o.d., wall thickness	N.A.	
Exhaust pipe	Main o.d., wall thickness	48.6/65, 1.2	75. 1.5
	Material & Mass kg (weight lbs.)	Stainless steel, 4.4/6.9	
Inter- mediate	o.d. & wall thickness	70/54, 1.2 Stainless steel, 4.4/7.8	
pipe	Material & Mass kg (weight lbs.)	Stainless steel, 10.4	Stainless start 5.0
Tail pipe	o.d. & wall thickness	48.6/75, 1.2	Stainless steel, 5.8
	Material & Mass kg (weight lbs.)	Stainless steel. 7.7	54/75, 1.2 Stainless steel, 8.2

 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1997
 Issued
 Aug., 1996
 Revised(\*)

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

Engine Description Engine Code	2JZ-GE	2JZ-GTE
Transmissions/Transaxle(Std., Op	t., N.A.)	

<del>-</del>	<b>1 ~</b> '	
TOYOTA/JAPAN		
- GETRAG/GERMANY		
AISIN A.W./JAPAN	<u> </u>	
-		
-	_	

#### Manual Transmission/Transaxle

Number of forward speeds		5	6	
	1st	3.285	3.827	
	2nd	1.894	2.360 1.685	
_	3rd	1.275		
Gear ratios	4th	1.000	1.312	
	5th	0.783	1.000 0.793	
	6th			
	Reverse	3.768	3.280	
Synchronou	s meshing(specify gears)	All including reverse	-	
Shift lever l	ocation	Floor	-	
Trans.case mat'l, & mass kg(lbs)*		Aluminum die cast, 46(Dry)	Aluminum die cast, 51(Dry)	
Lubricant	Capacity L(pt.)	2.6	1.8	
Lubricant	Type recommended	GL-3	DEXRON II	

#### Clutch(Manual Transmission)

Clutch manufacturer			AISIN SEIKI	-
Clutch type	(dry, wet;sing	le, multiple disc)	Single dry plate, Diaphragm	4
Linkage(hy	draulic, cable	, rod, lever, other)	Hydraulic	-
Max.pedal	effort(nom.	Depressed	130	140
spring load	)N(lbs)	Released .	100	+
Assist(spri	ng, power/per	cent, nominal)	20	<b>←</b>
Type press	ure plate sprin	gs	Diaphragm spring	<del>-</del>
Total spring load(nominal) N (lbs)		I) N (lbs)	6900	10400
Facing	Facing m	fgr. & material coding	AKEBONO BRAKE	<b>←</b>
	Facing m	aterial & construction	Semi-mould	<b>←</b>
	Rivets pe	r facing	16	32
	Outside x	inside dia.(nominal)	236 x 150	250 x 150
Clutch	Total eff.	area cm² (in.¹)	260	314
		s(pressure plate vheel side)	3.5	4.0
		th(pressure plate /heel side)	1.6/1.6	1.6/1.6
	Engagem	ent cushion method	Wave spring segments	<b>←</b>
Release bea	iring type & m	ethod lub.	Self-centering ball bearing with permanent lubrication	Ball bearing with permanent lubrication
Torsional d	amping metho	d,springs,hysteresis	Multi-stage torsional springs with friction washer	Dual moss [lywheel

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

TOYOTA SUPRA Vehicle Line 1997 Issued Aug., 1996 Model Year \_ Revised(+)

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

Engine Description Engine Code	2JZ-GE	2JZ-GTE
Automatic Transmission/Transaxle	•	

Trade Name	· · · · · · · · · · · · · · · · · · ·	A340E		
Type and special features(describe)		2-mode, 4-speed electronically controlled planetary gear train with lock-up clutch torque converter		
Shift mecha	nics			
	Location(column, floor, other)			
Geer 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	4.083		
Max.upshift v	rehicle speed-drive range km/h(mph)	3 - 4 167	3 → 4 193	
	engine speed RPM			
Max. kickdown speed-drive range km/h(mph)		4 - 3 162	4 - 3 187	
Min. overdri	ve speed km/h(mph)	3 - 4 36, 4 - 3 22	3 - 4 31, 4 - 3 25	
	Туре	N.A.	-	
	Torus design	N.A.	<u> </u>	
_	Number of elements	3 elements	<u>+</u>	
Torque converter	Max. ratio at stall	1.9	2.0	
	Type of cooling(air,liquid)	Liquid	<u>←</u>	
	Nominal diameter	254	272	
	Capacity factor "k"*	N.A.	-	
Pump type	·	N.A.	-	
ubricant	Capacity refill L(pt.)	1.6	1.9	
	Type recommended	ATF "DEXRON II"	ATF "TYPE T-II"	
it cooler(std.	.opt.,N.A.,internal,external,air,liquid)	Std.=In radiator liquid	+	
Transmissio	n mass kg(lbs) & case material**	69.0, Aluminum die cast	71.9, Aluminum die cast	
All Whee	I/4 Wheel Drive			
	k type(part-time, full-time, 2/4 shift g. mechanical, elect.,chain/gear,etc.)			
[ranel	Manufacturer and model			
Fransfer case	Type and location			
.ow-ranga g	ear ratio			
ystem disco	nnect(describe)			

Torque split(% front/rear)

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

Center differential

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

Vehicle Line TOYOTA SUPRA

Model Year 1997 Issued Aug., 1996 Revised(·)

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

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

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

Axle ratio(or overall top gear ratio)		4.083	M/T=3.133, A/T=3.769	
Ring gear o.d.		205.0	M/T=222.0, A/T=205.0	
No. of	Pinion	12	M/T=15, $A/T=13$	
teeth	Ring geer	49	M/T=47, A/T=49	

#### Rear Axle Unit

Description			Under floor integral			
Limited slip	differentia	al(type)	Opt.=TORSEN	M/T=Std.(TORSEN), A/T=Opt.(TORSEN)		
D.:		Туре	Hypoid			
Drive pinion		Offset	28.00 M/T=33.00, A/T=28.00			
No.of differe	ntial pinio	ons	Std.=2, Opt.=8	M/T=6, A/T(Std.=2, Opt.=8)		
Pinion/differential Adjustment(shim, etc.)		Adjustment(shim, etc.)	Shim/Shim			
r inion/aixter	eu(18)	Bearing adjustment	Collapsible tube/shim			
Driving whee	bearing	(type)	Double row angular contact	Double row angular contact ball bearing		
1b.:/	Capac	ity L(pt.)	1.35			
Lubricant Type recommended		recommended	API GL-5			
			<del> </del>			

#### Propeller Shaft - Rear Wheel Drive

Manufacturer Type(straight tube,tube-in-tube, internal-external damper, etc.)		TOYOTA MOTOR CORPORAT				
	Menual 4-speed transmission		ission	-		
Outer diam.x length*x wall	Manual	5-speed transmi	ission	Front=60.5 x 520 Rear =60.5 x 569	-	
	Manual	6-speed transmi	ission	_	Front=60.5 x 538 Rear =60.5 x 583	
hickness	Overdri	ve		, <del> -</del>		
•	Automa	itic transmission	1	Front=60.5 x 446 Rear =60.5 x 569	Front=60.5 x 495 Rear =60.5 x 606	
nter- nediate	Type(pl	ain, anti-friction	1)	Ball bearing		
earing	Lubrica	ition(fitting, pre	pack)	Prepack		
Slip	Туре	Туре		Involute spline		
lip oke	Number	Number of teeth		M/T=21. $A/T=23$	27	
	Spline o	Spline o.d.		M/T=27.04, A/T=30.48	29.07	
	Maka	Make and mfg. no. Front		No.1, 2 Joint=TOYOTA MOTOR CORPORATION		
	WOKE			No.3 Joint=TOYO		
	Number	Number used		3		
Jniversal	Type (ball and trunnion, cross)		, cross)	No.1, 2 joint=Hook's joint No.3 joint=Flexible coupling		
oints	Rear at	tach(u-bolt, clan	np, etc)	Bolts and nuts		
		Type(plain, anti-friction)		Anti-friction (Needle roller bearing)		
	Bearing	Bearing Lubrication (fitting, prepack)		Prepack		
Orive taken t orms or sprin		que tube,		N.A.		
Torque taken through(torque tube, arms or springs)		N.A.				

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

Vehicle Line _	TOYOTA SU	JPRA			 
Model Year _	1997	Issued _	Aug., 1996	Revised(+)	

### METRIC(U.S. Customary)

Model Code/Description And/Or Engine Code/Description	2JZ-GE	2JZ-GTE
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#### Suspension - General Including Electronic Controls

	Ster	ndard/optional/not avail.	N.A.	
	Mar	nual/automatic control		
	Тур	e(air/hydraulic)		
Car	Pric	mary/assist spring		
veling	Rea	r only/4 wheel leveling		
	Sing	ple/dual rate spring		
	Sing	gle/dual ride heights		
	Provision for jacking			
	Ster	idard/option/not avail.	N.A.	
	Manual/automatic control			
	Nun	nber of damping rates		
hock bsorber amping		e of actuation(manual/ tric motor/air, etc.)		
ontrois	S	Lateral acceleration		
	l u	Deceleration		
	0	Acceleration		
	s	Road surface		•
hock	Тур	9	Tube, double acting	
bsorber	Mak	.4	KAYABA & TOKIKO	M/T=KAYABA, A/T=TOKIKO
iront & ear)	Pist	on diameter	30.0	M/T=30, AT=40
adı 1	Rod	diameter	12.5	

#### Suspension - Front

Type and description		Double wishbone	
Travel	Full jounce(define load condition)	80	· · · · · · · · · · · · · · · · · · ·
	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 (lb./in.)]	27	29
3 x = 1: *1!*	Type(tink, linkless, frametess)	Link, frameless	
Stabilizar	Material & O.D. bar/tube, wall thickness	Steel, 29	Steel, 30

#### Suspension - Rear

Type and de	Type and description		Double wishbone	
Travel	Full jounce(define load condition)		85	· · · · · · · · · · · · · · · · · · ·
	Full re	bound	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 x 98.5, A/T=333 x 98.5
Spring .	Spring rate[N/mm (lb./in.)]		32	
spring .	Rate at wheel[N/mm (lb./in.)]		22	
	Insula	tors(type & material)	Top only, rubber	
	11	No of leaves	N.A.	
	leaf	Shackle(comp.or tens.)	N.A.	
Stabilizer	Type(link, linkless, frameless)		Link, frameless	
Statilizer	Material & O.D. bar/tube,wall thickness		Steel, 19.1	
Track bar(ty	rpe)		N.A.	

Vehicle Line	TOYOTA SU	JPRA	 	
Model Year			Revised(+)	

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

Model Code/Description And/Or Engine Code/Description

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

Brakes -	Service	-			•	
Description Four-wheel hydraulic actuation with front and rear circuits				with front and rear circuits		
Manufacturer a	cturer and Front(disc or drum)			AKEBONO, disc, std.	SUMITOMO, disc, std.	
brake type(std.,opt.,n.a.) Rear(disc or drum)			ım)	AISIN disc, std.	SUMITOMO, disc, std.	
Velving type(	proportion	, delay, metering	, other)	P & B valve		
Power brake(	std., opt.,	n.a.)		Std.		
Booster type(	emote, in	tegral, vac., hyd.,	etc.)	Integral, vacuum		
	Source(inline, pump, etc.)		Inline			
Vacuum	Reservo	pir(volume in.1)		N.A.		
	Pump-typ	e(elec.gear driven,balt	driven)	N.A.		
Traction	Pump-type(elec,gear driven,belt driven) Operational speed range			N.A.	All	
essist	Type(en	gine or breke interv	ention)	-	Engine	
	Front/r	ear(std., opt., n.:	<del>)</del> .)	Front and rear, std.		
	Manufa	cturer		NIPPONDENSO		
		ectronic, mech.)		Electronic		
		r sensors or circu	its	4		
Anti-lock	Number	anti-lock hydraulic	circuits	3	4	
device		l or add-on system		Add-on		
		ntrol(yes, no)		Yes		
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		rg.)	Electric motor		
Effective area	cm²(in.²)	•		288	336	
Gross Lining area cm² (in.²) **(F/R)			241/132	262/143		
Swept area on		<del>` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` </del>		1651/1246	1947/1674	
Swept area crit	Outer working diameter F/R			294/305	320/321	
•	<del></del>			184/231	201/223	
Rotor	Thickne	<del></del>	F/R F/R	32/16	30/16	
		Material & type(vented/solid) F/		Cast iron, vented/vented		
		er & width	F/R	_		
Drum	Type ar	nd material	F/R			
Wheel cylinde		<u> </u>		44.45 x 2/42.86	42.85 x 4/40.45 x 2	
Master cylind		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		
		lb.)pedal foad(kPa	(psi))	10500	9850	
Lining cleara	•		F/R	Self adjust/Self adjust		
		Bonded or riveted(rive	ets/seg.)	Bonded		
	}	Rivet size		-		
	ļ	Manufacturer		SUMITOMO, AISIN CHEMICA	L. NISSINBO, AKEBONO	
	Front	Lining code****		_		
	wheel	Material		Molded resin		
		Primary or ou	ıt-board	123 x 55 x 11	117 x 59.5 x12.	
		Size Secondary or		123 x 55 x 11	117 x 59.5 x12	
Brake		Shoe thickness(no		6.0	5.0	
ining		Bonded or riveted (rive		Bonded	1 272	
		Manufacturer	·	SUMITOMO. AISIN CHEMICA	L. NISSINBO, AKEBONO	
		Lining code*****		-		
	Rear	Material		Molded resin		
	wheel	· · · Primary or ou	ıt-board	104 x 37 x 10	80 x 49 x 11	
	1	1		104 x 37 x 10	80 x 49 x 11	
		Size Secondary or in-board				

<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.)

<sup>(</sup>Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)
\*\*\*\*Size for drum brakes includes length x width x thickness. \*\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

Vehičle Line	TOYOTA S	UPRA			
	1997		Aug., 1996	Revised(+)	

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

Model Code/Description And/Or Engine Code/Description

2JZ-GTE 2JZ-GTE

#### Tires And Wheels(Standard)

	Size(service	description)	Front=225/50R16, Rear=245/45R16	Front=235/45ZR17, Rear=255/40ZR17	
Tires	Type(bias,	radial, steel, nylon, etc.)	Radial, steel & nylon		
	Inflation pres- sure(cold) for recommended		230		
	max.vehicle load	Rear kPa(psi)	230		
	Rev./mile-a	it 70 km/h(45 mph)	Front=843, Rear=851	Front=821, Rear=832	
	Type & material		Aluminum		
	Rim(size &	(lange type)	Front=16 x 8JJ, Rear=16 x 9JJ	Front=17 x 8JJ, Rear=17 x 9.5JJ	
/heels	Wheel offse	1	50		
110013		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 pos (describe)	ition & 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)	
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)	
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 from service	Drum diameter	190.0	
brakes	Lining size(length x width x thickness)	181 x 25 x 2.5	

TOYOTA SUPRA Vehicle Line 1997

Issued \_

METRIC(U.S. Customary)

Model Code/Description And/Or Engine Code/Description

2JZ-GE

Model Year

2JZ-GTE

Aug., 1996 Revised(+)

#### Steering

Manual(std.,	opt., n.a.	)		N.A.	
Power (std., o	pt., n.a.)			Std.	<del></del>
Speed-sensitive(std., opt., n.s.)				Std.	
4-wheel steering	19(std., o	pt., n.a.)		N.A.	
Adjustable		Туре		Tilt	
steering wheel		Manufac	lurer	TOYOTA MOTOR CORPORATION	
(tilt, telescope	, other)	(std., opt	., n.a.)	Std.	
Wheel diamete		Manual		N.A.	
(W9)SAE J110	10	Power		370	
	Outside	Wall to w	all(1,& r.)	11.5	
Turning diameter	front	Curb to c	urb(l.& r.)	10.9	
m(ft.)	Inside	Wall to w	ell(1.& r.)	6.2	
	rear	Curb to curb(f.& r.)		6.6	
Scrub Radius*				8 6	<del></del> -
		Туре			
	Gear	Manufacturer		-	
Manual	Gear	Ratios	Gear		<del>.</del>
		7181103	Overall		
	No. wheel turns(stop to stop)				
	Type(coaxial, elec., hyd., etc.)			Integral, hudraulic	
	Manufa	cturer		TOYOTA MOTOR CORPORATION	
		Туре		Rack & pinion	
Power	Gear	Ratios	Gear	∞	
			Overall	17.5	
	Pump(d	rive)		V-ribbed belt	<del></del>
	No. whe	el turns(st	op lo stop)	3.0	
	Туре			Tie-rod directly attached torack end	
Linkage	Location(front or rear of wheels, other)		ear ·		<u> </u>
	Tie rods	(one or two	o)	2	
<del></del> _	Inclinati	on at camb	er(deg.)	9°15' 9°25'	
Steering		Upper		Ball joint	
exis .	Bearings (type)	Lower		Ball joint	
	, , , , ,	Thrust		N.A.	
Steering spindle	/knuckle	& joint typ	)e	Ball joint	
				<u> </u>	

<sup>&</sup>quot;The horizontal distance in the front elevation between wheel centerline and kingpin(ball joint) axis at ground "See Page 23.

Vehicle Line	TOYOTA SU	PRA_			
Model Year	1997	Issued _	Aug., 1996	Revised(+)	

### METRIC(U.S. Customary)

Model Code/Description And/Or Engine Code/Description

				<del></del>	_
	2JZ-GE		2JZ-GTE		
c					

#### Wheel Alignment

	۱	Caster(deg.)	3°20' ±45'	3 °25' ±45'
	Service checking	Camber(deg.)	- 15' ±45'	-25' ±45'
		Toe-in outside track-mm(in.)	0 ± 2	0 ± 2
Front		Caster(deg.)	3 °20' ±45'	3 °30' ±45'
wheel et ourb mass	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	Cember(deg.)	-1°25' ±45'	-1°25' ±45'
Rear	checking	Toe-in outside track-mm(in.)	3 ± 2	3 ± 2
vheel at	Service	Camber(deg.)	-1°25' ±45'	-1°25'±45'
urb m <u>ass</u> wt.)	reset*	Toe-in-mm(in.)	3 ± 2	$3\pm 2$
***.,	Periodic M.V. in	Camber(deg.)	N.A.	
	M.V. in- spection	Toe-in-mm(in.)	N.A.	<u> </u>

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

### Electrical - Instruments and Equipment

Speed-	Type(analo	g,digital, std., opt.)	Analog
ometer	1 rip odome	ter(std., opt., n.a.)	Std.
	Stendard, optional, not available		N.A.
	Туре	Secondary, opto-electronic	
D4	Speedometer	Digital	
Head-up display	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	
	Brightness control	Day/night mode. adjustable	
EGR mainten	ance indicato	or .	No
Charge	Туре		Telltale lamp
indicator	Warning de	vice(fight, audible)	Light
Temperature	<del></del>		Electric gauge
indicator	Warning device(light, audible)		N.A.
Oil pressure	Туре		Telltale lamp
indicator	Warning device(light, audible)		Light
Fuel	Туре		Electric gauge
indicator	Warning device(light, audible)		Light
	Type(standa		Electric 2 speed with adjustable intermittent and mist operation
Wind- shield	Type(optional)		_
wiper	Blade length		LH=525, RH=475
	Swept area o	:m²(in.²)	6771
Wind-	Type(standa	ird)	Electric motor
shield	Type(option	ai)	
washer	Fluid level inc	licator (light, audible)	No
Rear window	Rear window wiper,wiper/washer(stdopt.,n.a.)		Std.
Horn	Туре		Electric vibration
10711	Number user	đ	2
Other		-	_

 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1997
 Issued
 Aug., 1996
 Revised(\*)

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

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

#### Electrical - Supply System

	Manufacturer	MATSUSHITA				
	Model, std.,(opt.)	M/T=75D26L, A/T=80D26L				
	Voltage	12V, 90				
Battery	Amps at O°F cold crank	M/T=490, A/T=582				
	Minutes-reserve capacity	M/T=123, A/T=133				
	Amps/hrs20hr. rate	65				
	Location	Lest front of engine compartment				
	Manufacturer	NIPPONDENSO				
	Rating(idle/max. rpm)	12V, 80A	M/T=12V, 90A, A/T=12V, 100A			
Alternator	Ratio(alt.crank/rev.)	1:2.52	M/T=1:2.52, A/T=1:2.32			
	Output at idle(rpm, park)	_				
	Optional(type & rating)	-				
Regulator	Туре	IC regulator				

### Electrical - Starting System

•	Manufacturer	NIPPONDENSO
Motor	Current drain^C (^F)	-
	Power rating kw(hp)	1.4
	Engagement type	Solenoid shift
Motor driv <del>e</del>	Pinion engages from(front, rear)	Front

#### Electrical - Ignition System

		a production			
T	Electronic	(std., opt., n.a.)	Std.	N.A.	
Туре	Other (specify)		N.A.	TDI	
	Menufecturer		NIPPONDENSO		
<b></b>	Model		N.A.		
Coil	<u>.</u>	Engine stopped-A	0		
•	Current	Engine idling-A	0.8	0.7	
	Manufacturer		NIPPONDENSO, NGK		
	Model		NIPPONDENSO=PK16R11, NGK=BKR5EP11	NIPPONDENSO=PK20R11, NGK=BKR6EP11	
Spark	Thread(mm)		14		
plug	Tightening torque N - m(lbft.)		17.7		
	Gap		1.1		
	Number r	per cylinder	1		
D'attibute.	Manufact	urer	NIPPONDENSO	N.A.	
Distributor	Model		N.A.		

#### Electrical - Suppression -

-	Distributor rotor	Ceramic tipped rotor	N.A.
Locations & type	High tension cord	High resistance high tension cord	N.A.
	Spark plug	High resistance spark plug	·

#### TOYOTA SUPRA **MVMA** Specifications Vehicle Line 1997 Model Year Issued \_ Aug., 1996 Revised(+) METRIC(U.S. Customary) Model Code/Description All models Body Structure Unitized Bumper system Both=Urethane fascia, energy absorber and reinforcement front-rear Extensive use of galvanealed steel sheet, PVC sealer, Anti-corrosion treatment full dip pretreatment, cathodic ED, PVC undercoat and anti-chipping coat (anti-chipping PVC coating, soft-chipping primer) Body - Miscellaneous Information Type of finish(lacquer, enamel, other) Enamel Material & mass Aluminum alloy, 12kg Hinge location(front, rear) Hood Type(counterbalance, prop) Prop Release control (internal, external) Internal Material & mass Trunk Type(counterbalance, other) lid Internal release control(elec., mech., n.e.) Material & mass Steel, 25kg Hatch-Type(counterbalance, other) Gas props back lid Internal release control(elec., mech., n.a.) Mech. Material & mass Tailgate Type(drop, lift, door) Internal release control(elec., mech., n.a.) Front N.A. Vent window control(crank, friction, pivot, power) Rear N.A. Front Cable Window regulator type (cable, tape, flex drive, etc.) Rear Front Separate, spring + panel + form pad Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.) Rear Bench, wire + form pad 3rd seat Front Spring + form pad Seat back type (e.g., 60/40, bucket, bench, Rear Form pad wire, foam, etc.) 3rd seat Frame Type and description(separate frame, Unitized unitized frame, partially-unitized frame)

 Vehicle Line
 TOYOTA SUPRA

 Model Year
 1997
 Issued Aug., 1996 Revised(·)

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	A11 1 1
Model Code/Description	All models
•	<u> </u>

#### Restraint System

Seating Posi	tion			Left	Center	Right	
	Type & description (lap & shoulder belt, lap belt, etc.)		First seat	Lap and shoulder belt with ELR, Std.	N.A.	Lap and shoulder belt with ELR/ALR, Std	
Active			Second seat	Lap and shoulder belt with ELR/ALR, Std.	N.A.	Std. Lap and shoulder belt with ELR/ALR, Std	
	Standard/optional		Third seat	N.A.	N.A.	N.A.	
	Type & description (air bag,motorized-		First seat	Airbag Std.	N.A.	Airbag Std.	
Passive	2-point belt, fixed belt.		Second seat	N.A.	N.A.	N.A.	
	Standard/optional		Third seat	N.A.	N.A.	N.A.	
Glass SA Rei							
Windshield g surface area	plass exposed cm*(in.*)	S1	8980				
	posed surface 1) -total 2-sides	SZ	7010				
Backlight glo surface area		S3	8480				
Total glass e area cm²(in.	exposed surface	S4	24470				
Windshield g	glass(type/thickness)		Curve	d, laminated, 4.7			
Side glass(ty		Curved, tempered, door=5, other=3.1					
Backlight glass(type/thickness)			Curved, tempered, 3.5				
Tinted(yes/no. location)			Yes, windshield glass				
Solar contro	(yes/no, led, location)		Yes, b	atched, windshield, side a	nd backlight glasses		

#### Headlamps

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

Vehicle Line TOYOTA SUPRA Model Year 1997 Issued Aug., 1996 Revised(·)

METRIC(	U.S. Customary)	,				
Engine Code/Description  Climate Control System  Air conditioning(std., opt., man., auto.)		All models				
		Std.=manual, auto				
	Туре	Multi flow type				
Condenser	Eff. face area(sq. mm.)	231210				
	Fins per inch	Pitch=3.75mm				
	Туре	Drawn cup type				
Evaporator	Ell. fece area(sq. mm.)	61509				
	Fins per inch	Pitch=4.5mm				
	Material	Aluminum				
Heater core	Eff. face area(sq. mm.)	31200 .				
	Fins per inch	Pitch=2.2mm				
	Туре	10PA17H				
Compressor	Displacement(cc.)	170				
Compressor	Manufacturer	NIPPONDENSO				
	A/C pulley ratio	1.115				
	Туре	N.A.				
Accumulator	Height(mm.)	-				
	Diameter(mm.)	-				
•	Type	Normal				
Receiver	Height(mm.)	187				
Diameter(mm.)		60				
Refrigerant control(CCOT, TVS, etc.)		-				
Heater water valve(yes/no)		Yes				
Refrigerant(R-	-12, R-134a, etc.)	R-134a				
Charge level(It	osoz.)	700g				
Cold engine loc	ckout switch(yes/no)	-				
	ttle cutout switch(yes/no)					

TOYOTA SUPRA Vehicle Line \_ Model Year 1997 Issued Aug., 1996 Revised(+)

Model Code/Description		2JZ-GE, Normal roof	Others				
Convenier	nce Equipment(standard,	optional, n.a.)					
Clock(digital,	analog)	Std. digital					
Compass/ther	mometer	N.A.					
Console(floor	, overhead)	Std. floor	· · · · · · · · · · · · · · · · · · ·				
Defroster, ele	stric windshield	N.A.					
Defroster, ele	tric backlight	Electric backlight	- 17				
	Diagnostic monitor(integrated, individual)	_					
	Instrument cluster(list instruments)	-					
	Keyless entry	N.A.					
Electronic	Tripminder(avg.spd.,fuel)	-					
	Voice alert(list items)	_					
	Other	-					
Fuel door lock(remote, key, electric)		Remote control	•				
Auto head on/off delay, dimming		N.A.					
	Cornering	N.A.					
	Courtesy(map, reading)	Std.					
	Door lock, ignition	N.A.(Door lock), Std.(ignition)					
	Engine compartment	N.A.					
	Fog .	Std.					
Lamps	Glove compartment	Std.					
	Trunk	Std.	* · · · · · · · · · · · · · · · · · · ·				
	Illuminated entry system (fist lamps, activation)	N.A.					
	Other	-					
*	:						
	Day/night(auto. man.)	Manual					
·*:	L.H.(remote, power, heated)	Remote, power, heated	Remote, power				
Mirrors	R.H.(convex, remote, power, heated)	Remote, power, heated	Remote, power				
	Visor vanity(RH/LH, illuminated)	RH only, no illumination	<del></del>				
Navigation sys	item(describe)	-					
<u> </u>	-auto release(werning light)		·····				

#### TOYOTA SUPRA **MVMA** Specifications Vehicle Line 1997 Aug., 1996 Model Year Revised(+) METRIC(U.S. Customary) Model Code/Description All models Convenience Equipment(standard,optional,n.a.) Deck lid(release, pull down) Door locks(manual, automatic, Manual describe system) 2-4-6 way, etc. N.A., 4 way (leather) Reclining(R.H., L.H.) N.A., LH (leather) Memory(R.H.,L.H.,preset recline) N.A. Power Seats equipment Support(lumber, hip, thigh, etc. N.A. Hested(R.H., L.H., other) Opt.(leather):LH and RH Side windows Vent windows N.A. Rear windows N.A. Antenna (location, whip, w/shield, power) Std.=Auto-antenna, Opt.=Auto-antenna at RH quarter and rear glass-antenna Standard AM/FM ETR, tape-6 speakers <Opt.1> AM,FM,stereo,tape, AM/FM ETR, tape, CD compact disc, graphic equalizer, theft deterrent, equalizer-7 speakers Radio theft deterrent, radio prep package, systems headphone jacks,etc. Optional AM/FM ETR, tape, theft deterrent-6 speakers <Opt.3> AM/FM ETR, tape-6 speakers(NON DIV) Std.=6, front doors + quarter trims + inst-panel tweeters Speaker(number, location) Opt.=7, front doors + quarter trims + inst-panel tweeters + woofer on deck Roof: open air or fixed(flip-up, sliding, "T") Fixed or Detachable (sport roof) Speed control device Std. Speed warning device(light, buzzer, etc.) N.A. Tachometer(rpm) 8000 Telephone system (describe) N.A. Theft deterrent system Std. Trailer Towing Towing capable Yes/No No Engine/transmission/axle Std/Opt Tow class ( | . | ] . | [] \* Std/Opt Max. gross trailer wgt.(lbs.) Std/Opt Max. trailer tongue load(lbs.) Std/Opt Towing package available Yes/No No

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

Vehicle Line _	TOYOTA S	UPRA			
Model Year _	1997	_ Issued _	Aug., 1996	Revised(•)	

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

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description	SAE Ref. No.	' All models
Width		
Tread(front)	W101 -	1520
Tread(rear)	W 102	1525
Vehicle width	W 103	1810
Body width at Sg RP(front)	W117	1784
Vehicle width(front doors open)	W120	3762
Vehicle width(reer doors open)	W121	No rear doors
Tumble-home(degrees)	W122	33.5°
Outside mirror width	W410	1987.5
Length		•
Vheelbase .	L101	2550
Vehicle length	L103	4515
Overhang(front)	L104	950
Overhang(rear)	L105	1015
Jpper structure length	L123	2565
Rear wheel C/L "X" coordinate	L127	2550
Height**		
Passenger distribution(front/rear)	PD1,2,3	••
runk/cargo load	T	••
fehicle height	H101	1265
Cowl point to ground	H114	890
Deck paint to ground	H138	975
Rocker panel-front to ground	H112	185
locker panel-rear to ground	H111 .	180
Vindshield slope angle(degrees)	H122	65.0°
Backlight slope angle(degrees)	H121	75.5°
Ground Clearance**	• • • • • • • • • • • • • • • • • • •	
ront bumper to ground	H102	160
Rear bumper to ground	H 104	280
Bumper to ground front at the street of the	H 103	170
Bumper to ground rear it curb mass(wt.)	H 105	290
Angle of approach(degrees)	H 106	13
Angle of departure(degrees)	H 107	17
Ramp breakover angle(degrees)	H147	12
<del></del>		
Axle differential to ground(front/rear)	H 153	1 165

<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.

Exhaust pipe

Location of min. run. grd, clear.

WVWA Specificati	ons	Vehicle Line 10101A 30FRA
METRIC(U.S.Customary Vehicle Dimensions Se		Model Year 1997 Issued Aug., 1996 Revised(+)
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
Mex. 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
Kinee 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, ontr	L11	484
Accel, heel pt. to steer, whi, ontr	H17	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	L51	605.1
SgRP(second to heel)	H31	239.3
Kines 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	_
Liftover height	H195	880
Interior Volumes(EPA Cla		
Vehicle class		Mini-compact
nterior volume index including trunk/carg	o(cu. (t.)**	Standard roof=79.5, Sport roof=79.3
Frunk/cargo,index(cu. ft.)		10.1
		<u> </u>

<sup>&</sup>quot;See page 14.
"See definition page 33.
All linear dimensions are in millimeters(inches) unless otherwise noted.
...EPA Loaded Vehicle Weight, Loading Conditions

#### TOYOTA SUPRA **MVMA** Specifications Vehicle Line Aug., 1996 Revised( • ) 1997 Issued Model Year METRIC(U.S.Customary) See Key Sheets for definitions Vehicle Dimensions All models Model Code/Description SAE Station Wagon/MPV\* Ref. No. -Third Seat SD1 Seat facing direction L85 SgRP couple distance W85 Shoulder room W86 Hip room 1,86 Effective leg room H86 Effective head room H87 SgRP to heel point \_ L87 Kines clearance L.88 Back angle (degrees) Hip angle(degrees) L89 Knee angle (degrees) L,90 L91 Foot angle (degrees) Station Wagon/MPV\* - Cargo Space Cargo length(open front) L200 L201 Cargo length(open second) L202 Cargo length(closed front) Cargo length(closed second) L203 Cargo length at belt(front) L.204 Cargo length at belt(second) L 205 Cargo width(wheelhouse) W201 \_ W203 Rear opening width at floor W204 Opening width at belt W205 Min.rear opening width above belt H201 Cargo height Rear opening height H202 \_ H250 · Tailgate to ground height H197 Front seat back to load floor height V2 Cargo volume index m3 (ft; 3) V4 Hidden cargo volume index m1(ft.3) V 10 Cargo volume index-rear of 2-seat Cargo volume index\* V6 \_ Cargo width at floor\* W500 H505 Maximum cargo height\* Hatchback - Cargo Space L208 1048.8 Cargo length at front seatback height L209 Cargo length at floor(front) 1279.7 Cargo length at second seatback height L210 716.2

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

L211

H197

H198

V3

V4

VII

950.2

387.5

307.3

502.2

285.0

0

Cargo length at floor(second)

Cargo volume index m<sup>1</sup>(ft.<sup>2</sup>)

Front seatback to load floor height

Second seatback to load floor height

Hidden cargo volume index m2 (ft.1)

Cargo volume index-rear of 2-seat

<sup>\*</sup>MPV-Multipurpose Vehicle

<sup>·-</sup> EPA Loaded Vehicle Weight, Loading Conditions

•	ecifications Vehicle Line TOYOTA SUPRA
	Model Year 1997 Issued Aug., 1996 Revised(·)
	Customary)
	All models
	al Marks
	ar marky
	Define Coordinate Location
1	
	Center of front semi-circular knotch in rocker panel flange
- 1	for front jack-up point
l	
	Comban of hards and a second s
1	Center of back-most semi-circular knotch in rocker panel flange for rear jack-up point
}	·
i	
21	Standard roof = W6 + 89.4, sport roof = W6 + 90.4
4**	L15 + 30.5
	H9 + 71.5
	175
63	165
	•
	Standardroof = W7 + 15.7, sport roof = W7 + 14.4
_	L29 + 30.5
	H9 + 61.9 165
64**	155
	21 iducia 4 61 63 22 62 62

<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	RA		
Model Year	1997	Issued Aug., 19	96 Revised(+)	

METRIC(U.S. Customary)

		Vehicle Mass(weight)					% PASS	MASS D	ISTRIBU	TION
		CURB MASS, kg. (lb.) <sup>5</sup>			SHIPPING		Pass in Front		Pass in Rear	
Code	Model	Front	Reer	Total	MASS kg(lb)***	ETWC**	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	X	38	62	18	82
JZA80L-AJPVZA		1920	, 1595	3515	3412	X	38	62	18	82
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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	•		***Shipping Mass(weight)=Curb Weight Less:
A = 1000 B = 1125	I = 2000 J = 2129	5 R =3125	Ž =	1000 1250	
C = 1250 D = 1375	K = 2250 L = 2379	5 T = 3375	8 B -	1500 1750	
E = 1500 F = 1625	M = 2500 N = 2625	5 V = 3625	DO =	5000 5250	
G = 1750 H = 1875	O = 2750 P = 2879			5500 5750	

Vehicle Line TOYOTA SUPRA

METRIC(U.S. Customary)

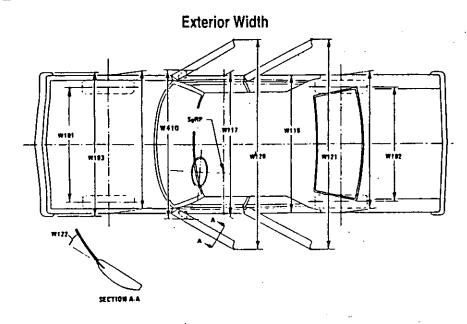
Model Year 1997 Issued Aug., 1996 Revised(·)

	Optional Equipment Differential Mass(weight)*						
<b>-</b> .			MASS, kg.(II	Remarks			
Code	Equipment	Front	Rear	Total	Restrictions, Requirements		
Limited slip differenti	al (w/o sM/T)		<u> </u>				
Leather seat	ai (w/o blvi/ 1)	0	2.2	2.2			
Audio (7sp)	<u> </u>	3.0	3.6	6.6			
Rear spoiler		-2.3	15.0	12.7	ı		
rear sponer		-0.6	4.2	3.6			
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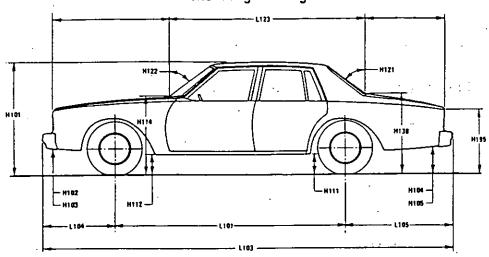
<sup>\*</sup>Also see Engine-General Section for dressed engine mass(weight).

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

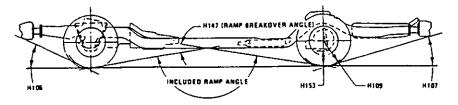
### Exterior Vehicle And Body Dimensions - Key Sheet



### **Exterior Length & Height**



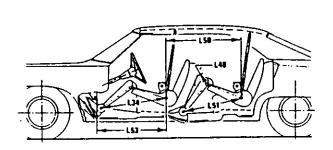
#### **Exterior Ground Clearance**

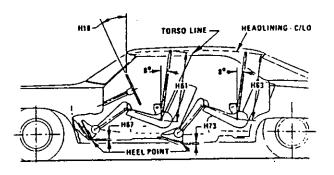


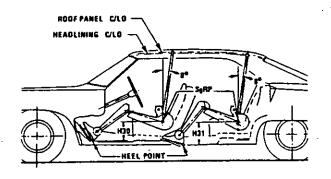
### **MVMA Specifications Form**

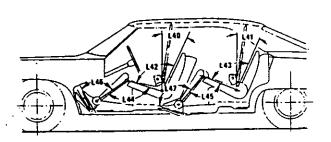
METRIC (U.S. Customary)

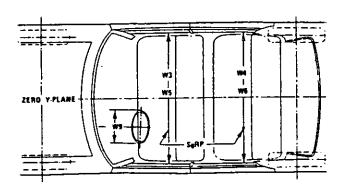
#### Interior Vehicle And Body Dimensions - Key Sheet

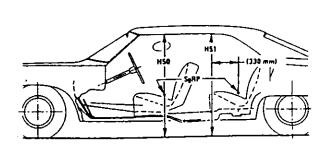






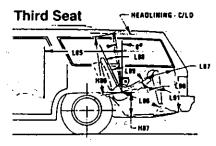


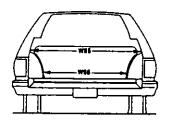




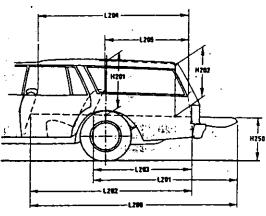
METRIC (U.S. Customary)

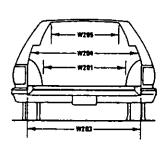
#### Interior Vehicle And Body Dimensions - Key Sheet



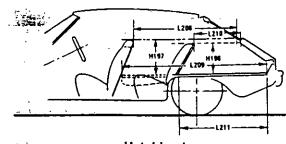


Ĉargo Space

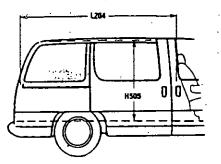




Station Wagon



Hatchback





**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

W101 TREAD - FRONT. The dimension measured between the tire

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.

W117 BODY WIDTH AT SgRP - FRONT. The dimension measured 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.

W121

VEHICLE WIDTH-REAR DOORS OPEN. The dimension 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 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 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 axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L103 VEHICLE LENGTH. The maximum dimension measured 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.

L104 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 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

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 H121 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. H122 WINDSHIELD SLOPE ANGLE. The angle between the 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.
STATICLOAD - TIRE RADIUS - REAR. Specified by the manu-H138

facturer in accordance with composite TIRE SECTION STANDARD.

#### **Ground Clearance Dimensions**

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.

H<sub>103</sub> FRONTBUMPERTO GROUND - CURB MASS (WT.). Meas-

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 equipment.

H105 REAR BUMPER TO GROUND - CURB MASS (WT.). Meas-

ured 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 designated

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 between two lines tangent to the front and rear tire static H147 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

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**

GI	-	_	_				
G	- 23	2	8	-	ru	83	6

- Windshield area.
- Š2 Side windows area, includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- Total area. Total of all areas (S1 + S2 + S3). **S4**

#### Fiducial Mark Dimensions

#### Flducial Mark - Number 1

- 'X" coordinate. L54
- "Y" coordinate. W21
- "Z" coordinate. Hat
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. Fiducial Mark Number 2 H161
- H163
- "X" coordinate.
  "Y" coordinate. L55
- W22
- W82 "Z" coordinate.
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H162
- H164

#### **Front Compartment Dimensions**

- ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column cer:terline 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 J1100)
  - NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. L23 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 travel used for purposes other than normal driving and riding

  - positions. (See SAE J1100).
    SGRP 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 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 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 ~ FRONT TO HEEL. The dimension measured horizon-L53
  - tally from the SgRP front to the accelerator heel point. W3 SHOULDERROOM - 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 alt of the SgRP front. STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. W9 Define if other than round,
- ACCELERATOR HEEL POINT TO THE STEERING WHEEL H7 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.
- STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel. H18
- SqRP FRONTTO 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 measured to the state of t
- 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 line 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 148 measured from the knee pivot center to the back of the front
- seatback minus 51 mm (2.0 in.).
  SgRPCOUPLEDISTANCE 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
- W6 HIP ROOM - SECOND. Measured in the same manner as W5.
- SqRP SECOND TO HEEL. The dimension measured verti-H31 cally from the SgRP - second to the two dimensional device heel point on the depressed floor covering.
- UPPER BODY OPENING TO GROUND SECOND. The H51 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.).
- FLOOR COVERING 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.
- 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 141
  - 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 SHOULDERROOM--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 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 "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 W	AGON		411	back - Cargo Space Dimensions chback cargo dimensions are to be taken with the front seat					
_	Measured in	inches:		in full down and rear position, and the rear seat folded down. The						
		V4 x H201 x L204			door in in the closed position (Ent plactfonically dulusion)					
		1728	= ft <sup>3</sup>	seats.	the magnifecturer's specifications for DRSIGH D. F. VIIIV.					
		*-==		L208	CARCO LENGTH AT ERONI SHAINAGA REIGHT, 1119					
	Measured in		ary Then party.		wisigue bodzontal dimension from the "X" Diane langern					
	<u> </u>	W4 x H201 x L204	= militabic meter)		to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle					
		10"	******		zero "Y" plane.					
V4	HIDDENLU	IGGAGE CAPACI	TY – REAR OF FRONT SEAT.		A A COOL CNOTH AT EL COR - ERONT The minimum non-					
• •	The total vo	lumes of individua	I pieces of one set of standard	1209	Principle of the continuous management at floor level trom the real of the					
	luggage sto	wed in any hidde	n cargo area below the load		tend postback to the normal limiting interterior of the					
		the front seat.	•		hatchback door on the vehicle zero "Y" plane.					
		ND MPV'S WITH	OPEN/AREA	L210	CARGO LENGTH AT SECOND SEATBACK HEIGHT. The minimum dimension measured from the "X" plane tangent					
V5			Of Elevinora		to the engage studies of second spainack of the load floor					
	Measured in				which is stowed at least one half of the H198 cimension					
•		L506 x W505 x H5 1728	5 <u>03</u>		haight above the rear load floor to the rearmost made					
		1728	= 110		timiting interference on the zero "X" plane.					
	Measured in	n mm:		ايقار	CARCOLENGTH AT FLOOR - SECUND SEATONON, THE					
			503	7.7						
		109	503 = m <sup>3</sup> (cubic meter)							
		NO MONOC MOTH	CLOSED AREA		normal limiting interference of the hatchback door on the vehicle zero "Y" plane.					
V6			CLOSED AREA		renormal search of the search					
	Measured i	n inches:		H197	measured vertically from the horizontal tangent to the top					
		L204 x W500 x H	505		at the contrack to the underressed floor covering.					
		1728	= 以實施基本	ห้าง่อ	COCOND CENTRACK TO LOAD FLOOR MEIGHT THE					
	Measured i	n mm'	•	11130	dimension measured vertically from the second seatback					
			505		to the undepressed floor covering.					
		1204 X 11300 X 11	505 = m <sup>3</sup> (cubic meter)	V3	HATCHBACK.					
		10*			Measured in inches:					
V8	HIDDENL	JGGAGE CAPAC	TY - REAR OF SECOND SEAT.		L208 + L209 x W4 x H197					
	The total v	olume of individua	Il pieces of one set of standard en cargo area below the load		_ 2					
	luggage st	f the second seat	en cargo area boion interes	-	1728 = ft <sup>3</sup>					
V10	PTATION 1	WAGON CARGO	VOLUME INDEX.		11.22					
V 10	Measured	in inches:			Measured in mm:					
	100000.00	H201 v L205 v W	$\frac{2^{14} + W201}{2^{14}} = t^3$		L208 + L209 x W4 x H197					
		11201 X L200 X -	3	•	2 = m <sup>3</sup> (cubic meter					
			= h3		109					
			4.0	•						
	Measured	in mm:		V4	HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT					
		in mm: H201 x L205 x <sup>M</sup>	14 + W2U1	**	The total volumes of individual pieces of one set of standard					
			2 m³ (cubic meter)		luggage stowed in any hidden cargo area below the load					
		109	= m <sup>3</sup> (cubic meter)		floor core of the front cost					
		.0		V11	HATCHBACK CARGO VOLUME INDEX. Usable luggage					
				ļ.s	(one (1) stand and luggage set) below floor:					
					Measured in inches:					
			All		L210 + L211 x W4 x H198					
			3-1		2					
				ž.	1728 = N					
		••		•	Measured in mm:					
			ا ما با المار							
			17. 50		L210 + L211 x W4 x H198					
			Hip 雅 drail [ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	2 = m <sup>3</sup> (cubic mater					
-			derica de la care de Tares.	105	109					
	,									
		•	56352×	T <sub>4</sub> T <sub>6</sub> .	•					
			* * * *							

## METRIC (U.S. Customary)

#### Index

Axle Shafts	Capacity 1  Mass Distribution 26  kes 12 gine 2 gine 2 ering 14  ms 2 Shaft 10  Tuel 6  Cap, Hoses, Core 5  Cap, Hoses, Core 5  Cap, Hoses, Core 14  sion / Transaxle 2, 9, 10  sion 2  Afternator 16  System 18  connecting 4  first 17  corbers, Front & Rear 11  psecifier 15  Front & Rear Suspension 11  Sway Bar) — Front & Rear 11  stem 16  stem 16  stem 16  stem 16  stem 16  stem 17  stem 17  stem 16  stem 16  stem 16  stem 17  stem 16
Axle Drive, Front, Rear, All Four         2, 9, 10         Passenn, Axle Shalts         10         Passenn, Passenn	Mass Distribution       26         kes       3         kes       12         gine       2         ering       14         Ims       2         Shaft       10         Fuel       6         Cap, Hoses, Core       5         ske, Transaxle       2, 9, 10         skion / Transaxle       2, 9, 10         Afternator       16         System       18         ponecting       4         flus       14         sorbers, Front & Rear       11         ster       15         Front & Rear Suspension       11         Swey Bar) — Front & Rear       11         system       16         ster       15         Front & Rear       11         system       16
Battery	Section   Sect
Battery	kes       12         gine       2         ering       14         tms       2         Shaft       10         Tuel       6         Cap, Hoses, Core       5         txle, Transaxle       2, 9, 10         sion       2         sion / Transaxle       2, 8, 9         - Alternator       16         System       18         connecting       4         fius       14         corbers, Front & Rear       11         sker       15         Front & Rear Suspension       11         Swey Bar) — Front & Rear       11         system       16         system       16         swey Bar) — Front & Rear       11         system       16         system       16
Body and Miscellaneous Information:         17         Power Strakes – Parking Service         12, 13         Power Strakes – Power Strakes – Power I Strakes – Power I Strakes – Power I Strakes – Power I Strakes – I Strakes	gine 2 ering 14 ims 2 Shaft 10 Fuel 6 Cap, Hoses, Core 5 ixile, Transaxle 2, 9, 10 sion 2 sion / Transaxle 2, 9, 10 sion 14 sion 6 Alternator 16 System 18 synnecting 4 fills 17 corbers, Front & Rear 11 scheme 15 Front & Rear 11 scheme 15 Front & Rear 11 Sway Bar) — Front & Rear 11 system 11 Sway Bar) — Front & Rear 11 system 11 Sway Bar) — Front & Rear 11 system 16
Brakes – Parking Service         12, 13         Power T           Camber         15         Power T           Camshaft         3         Propelle           Capacities         9         Pumps           Cooling System         5         Water           Fuel Tank         6         Radiator           Lubricants         8.9         Stemin           Engine Crankcase         4         Compon           Transmission / Transaxle         8.9         Stemin           Rear Axle         10         Transmission / Transaxle         10           Carburetor         2.6         Rear Ax         Rear Ax           Caster         15         Regulate         Regulate           Calimate Control System         19         Restrain           Cliuth – Pedal Operated         9         Restrain           Cliuth – Pedal Operated         9         Restrain           Cliuth – Pedal Operated         9         Restrain           Coling System         16         Rods –           Controll System         20-21         Seal           Controll Restract         20-21         Seal           Comeration Equipment         20-21         Seal	ering 14  Ims 2  Shaft 10  Fuel 6  Cap, Hoses, Core 5  Ixle, Transaxle 2, 9, 10  sion 2  sion 7 Transaxle 2, 8, 9  — Afternator 16  System 18  Donnecting 4  fius 17  orbers, Front & Rear 11  poter 15  Front & Rear Suspension 11  Sway Bar) — Front & Rear 11  system 15  Front & Rear Suspension 11  Sway Bar) — Front & Rear 11  system 16  Sway Bar) — Front & Rear 11  system 16  Sway Bar) — Front & Rear 11  system 16  Sway Bar) — Front & Rear 11  system 16
Camber         15         Power T           Camshaft         3         Propoelle	Shaft   10   10   10   10   10   10   10   1
Camshaft         9 Propelle           Capacities         Propelle           Cooling System         5         Water           Fuel Tank         6         Radios -           Cubricants         8.9         Steerin           Engine Crankcase         10         Comport           Paar Axie         10         Transm           Carburetor         2.6         Rear           Caster         15         Regulat           Climate Control System         19         Restrant           Climate Control System         19         Restrant           Coll, Ignition         16         Rods -           Connecting Rods         4         Scrub           Colling System         5         Schock	Shaft       10         Fuel       6         Cap, Hoses, Core       5         kxle, Transaxle       2, 9, 10         sion       2         sion / Transaxle       2, 8, 9         Alternator       16         System       18         panecting       4         flus       14         corbers, Front & Rear       11         js       16         ter       15         Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         ystern       16         14       16
Capacities         Pumps           Cooling System         5         Water           Fuel Tank         6         Radiator           Engine Crankcase         4         Compn           Engine Crankcase         10         Transmission / Transaxie           Rear Axie         10         Transmission / Transmission           Carburetor         2,6         Rear Ax           Caster         15         Regulat           Climate Control System         19         Restrain           Clutch – Pedal Operated         8         Rims           Coil, Ignition         16         Rods –           Concetting Rods         4         Scrub R           Convenience Equipment         20-21         Seats           Convenience Equipment         20-21         Seats           Convenience Equipment         3         Scrub R           Convenience Equipment         4         Scrub R           Convenience Equipment         20-21         Seats           Conling System         5         Shock A           Crankshaft         4         Spark P           Cylinder Namisch         4         Spark P           Springs         5         Shock P	5 Cap, Hoses, Core
Cooling System	Cap, Hoses, Core       5         Ixle, Transaxle       2, 9, 10         sion       2         sion / Transaxle       2, 8, 9         — Alternator       16         System       18         ponnecting       4         fius       14         portion or specified       14         portion or specified       15         portion or specified       16         portion or specified       18         portion or specified       10 </td
Fuel Tank   6	xxle, Transaxle       2, 9, 10         sion       2         sion / Transaxle       2, 8, 9         - Afternator       16         System       18         connecting       4         flus       14         corbers, Front & Rear       11         ster       15         Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         system       16         sway Bar) — Front & Rear       11         system       16         15       16         16       16
Lubricants	xxle, Transaxle       2, 9, 10         sion       2         sion / Transaxle       2, 8, 9         - Atternator       16         System       18         connecting       4         flus       14         corbers, Front & Rear       11         ster       15         Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         stern       11         stern       16         14       16         15       16         16       16         17       16         18       16         19       16         10       16         11       16         12       16         14       16
Engine Crankcase	2   14   14   15   16   16   16   16   16   16   16
Transmission / Transaxle         8.9         Steerin           Rear Axle         10         Transm           Carburetor         2.6         Rear Ax           Caster         15         Regulate           Climate Control System         19         Restrain           Clutch – Pedal Operated         8         Rims           Coll, Ignition         16         Rods –           Connecting Flods         4         Scrub R           Convenience Equipment         20-21         Seats           Cooling System         5         Shock A           Crankshaft         4         Spock A           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Sporings           Diemension Definitions         Stabilize           Key Sheet – Exterior         28, 31, 32         Starting           Key Sheet – Interior         29, 30, 32, 33, 34         Steering           Key Sheet – Interior         29, 30, 32, 33, 34         Steering           Electrical System         5         Suspens           Engine – General         Tail Pipe           Bore, Stroke, Type         3         Thermon           Compression Ratio         2	14   14   15   16   17   18   19   19   19   19   19   19   19
Rear Axle         10         Transm           Carburetor         2,6         Rear Ax           Caster         15         Regulate           Climate Control System         19         Restrain           Clinch - Pedal Operated         8         Rims           Coil, Ignition         16         Rods –           Convenience Equipment         20-21         Scrub R           Convenience Equipment         5         Scrub R           Convenience Equipment         4         Springs           Coling System         5         Shock A           Crankshaft         4         Springs           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Diesel Information         4         Springs           Diesel Information         28, 31, 32         Starting           Key Sheet – Interior         28, 31, 32         Starting           Key Sheet – Interior         28, 31, 32         Starting           Electrical System         15, 16         Suppress           Electrical System         15, 16         Suppress           Emission Controls         7         Suspens           Engine Gener	sion / Transaxle       2, 8, 9         - Alternator       16         System       18         - Onnecting       4         titus       14         - Orbers, Front & Rear       11         Is       16         teter       15         Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         ystern       16         14       14
Caster         15         Regulate           Climate Control System         19         Restrain           Clutch – Pedal Operated         8         Rims           Coil, Ignition         16         Rods –           Connecting Rods         4         Scrub R           Convenience Equipment         20-21         Seats           Cooling System         5         Shock A           Crankshaft         4         Spark P           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Diesel Information         4         Springs           Diesel Information         4         Springs           Diesel Information         4         Springs           Diesel Information         28, 31, 32         Starting           Key Sheet – Interior         28, 31, 32         Starting           Key Sheet – Interior         29, 30, 32, 33, 34         Steering           Electrical System         5         Suspens           Emission Controls         7         Suspens           Engine Of General         Tall Pipe           Bore, Stroke, Type         3         Themos           Compression Ratio	- Afternator
Climate Control System         19         Restrain           Clutch – Pedal Operated.         8         Rims           Cont, Ignition.         16         Rods –           Convenience Equipment         20-21         Scats           Convenience Equipment         20-21         Scats           Cooling System         5         Shock A           Crankshaft         4         Spark P           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Diesel Information         4         Springs           Dimension Definitions         5 tabilize           Key Sheet – Exterior         28, 31, 32         Starting           Key Sheet – Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suspens           Emission Controls         7         Suspens           Emission Controls         7         Suspens           Engine – General         3         Thermos           Bore, Stroke, Type         3         Thermos           Coisplacement         2         Thermos           Firing Order, Cylinder Numbering         3         Toe-In           Gen	18
Clutch - Pedal Operated.         8         Rims           Coil, Ignition         16         Rods -           Connecting Rods         4         Scrub R           Convenience Equipment         20-21         Seats           Cooling System         5         Shock A           Crankshaft         4         Spark P           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Dimension Definitions         Stabilize           Key Sheet - Exterior         28, 31, 32         Stabilize           Key Sheet - Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Emission Controls         7         Suspens           Engine - General         Tail Pipe           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Thermos           Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power & Torque         2         Torque           Intake System         7         Transmit           Firing Order, Cylinder	13   13   13   15   16   16   17   17   17   17   17   17
Connecting Rods	ponnecting       4         fitius       14         ponters       17         porters       11         ps       16         pter       15         Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         ystern       16         14       14
Connecting Rods	flus
Convenience Equipment         20-21         Seats           Cooling System         5         Shock A           Crankshaft         4         Spark P           Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Dimension Definitions         Stabilize           Key Sheet - Exterior         28, 31, 32         Starting           Key Sheet - Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Engine - General         Tail Pip           Bore, Stroke, Type         3         Ther Pr           Compression Ratio         2         Thermos           Displacement         2         Thermos           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power & Torque         2         Torque C           Intake System         4         Torque C           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Fan, Cooling         5         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System <td></td>	
Seats   Seat	17   17   17   18   19   19   19   19   19   19   19
Crainkshaft Cylinders and Cylinder Head Diesel Information Diesel Information Diesel Information Dimension Definitions Key Sheet - Exterior Cysheet - Interior System Electrical System Electrical System Emission Controls Tail Pipe Bore, Stroke, Type Compression Ratio Displacement Displacement Displacement Power Teams Equipment Availability, Convenience Tansmit Fan, Cooling Fan, Cooling Filters - Engine Oil, Fuel System Front Suspension Front Wheel Drive Unit Fuel Economy, EPA Flask Glass  18 Vehicle I Headlamps 18 Venical Spring Sprak P Spread Spreedor Spreedor Sprand Spring Sprand Spring Sprand Spring Sprand Spring Sprand Spring Sprand Sprand Spring Sprand	orbers, Front & Rear     11       js     16       iter     15       Front & Rear Suspension     11       Sway Bar) — Front & Rear     11       ystem     16       14
Crainkshart 4 Spark P Speedor Speedor Diesel Information 4 Springs Dimension Definitions Stabilize Key Sheet - Exterior 28, 31, 32 Starting Key Sheet - Interior 29, 30, 32, 33, 34 Steering Electrical System 15, 16 Suppres Emission Controls 7 Suspens Engine - General Bore, Stroke, Type 3 Theft Pr Compression Ratio 2 Thermon Displacement 2, 3 Tires Firing Order, Cylinder Numbering 3 Toe-In General Information, Power, & Torque 2 Torque 1 Trailer T Exhaust System 7 Transax Equipment Availability, Convenience 20 Transmit Filters - Engine Oil, Fuel System 4 Transmit Four Wheel Drive Unit 1 Trunk C Transmit Front Suspension 1 Trunk C Trunk Lumber Line Economy, EPA 1 Turning Fuel Injection 6 Unitized Unitized Unitized Chalaks System 6 Unitized Economy, EPA 1 Turning Fuel Injection 6 Unitized Chalaks System 6 Unitized Chalaks System 6 Unitized Chalaks System 1 Trunk C Trunk Lumber Economy, EPA 1 Turning C Trunk C Trunk Lumber Economy, EPA 1 Turning C Trunk C Trun	gs     16       ster     15       Front & Rear Suspension     11       sway Bar) — Front & Rear     11       sstem     16       14
Cylinders and Cylinder Head         3         Speedor           Diesel Information         4         Springs           Dimension Delinitions         Stabilize           Key Sheet - Exterior         28, 31, 32         Starting           Key Sheet - Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Emission Controls         7         Suspens           Engine - General         Tail Pip           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Thermostory           Displacement         2         Thermostory           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power, & Torque         2         Torque           Intake System         4         Torque           Intake System         7         Transmit           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Fout Wheel Drive         10         Transmit      <	feer     15       Front & Rear Suspension     11       Sway Bar) — Front & Rear     11       ystem     16       14
Diesel Information         4         Springs           Dimension Delinitions         Stabilize           Key Sheet – Exterior         28, 31, 32         Starting           Key Sheet – Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Emission Controls         7         Suspens           Engine – General         Tail Pipe           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Thermost           Displacement         2         Thermost           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power, & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer Tr	Front & Rear Suspension       11         Sway Bar) — Front & Rear       11         /stem       16          14
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Key Sheet - Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Emission Controls         7         Suspens           Engine - General         Tail Pip           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Themos           Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power, & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Turning           Fuel Injection         6         Unitized           Fuel Tank <td></td>	
Key Sheet - Interior         29, 30, 32, 33, 34         Steering           Electrical System         15, 16         Suppres           Emission Controls         7         Suspens           Engine - General         Tail Pip           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Themos           Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power, & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Turning           Fuel Injection         6         Unitized           Fuel Tank <td></td>	
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Emission Controls         7         Suspens           Engine — General         Tail Pipi           Bore, Stroke, Type         3         Theft Pr           Compression Ratio         2         Thermos           Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters – Engine Oil, Fuel System         4         Transmit           Four Wheel Drive         10         Transmit           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk C           Fuel Injection         6         Unitized           Fuel Injection         6         Unitized           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Width         Vehicle I     <	on - Ignition, Radio
Engine - General   Tail Pipe   Bore, Stroke, Type   3   Theft Proceedings   The Proceedings   Trailer	n – Front & Rear
Bore, Stroke, Type	
Compression Ratio         2         Thermostries           Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power, & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Turning           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	ection
Displacement         2, 3         Tires           Firing Order, Cylinder Numbering         3         Toe-In           General Information, Power & Torque         2         Torque           Intake System         4         Torque           Power Teams         2         Trailer T           Exhaust System         7         Transmit           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Turning           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel Tank         6         Valve System           Fuel Tank         6	t, Cooling
General Information, Power & Torque         2         Torque & Teams         4         Torque & Torque & Torque & Trailer & Torque & Trailer &	
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Exhaust System         7         Transax           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters – Engine Oil, Fuel System         4         Transmit           Four Wheel Drive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk L           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universe           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	nverter
Exhaust System         7         Transax           Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters – Engine Oil, Fuel System         4         Transmit           Four Wheel Drive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk L           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universe           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	Engine
Equipment Availability, Convenience         20         Transmit           Fan, Cooling         5         Transmit           Filters - Engine Oil, Fuel System         4         Transmit           Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk L           Front Wheel Drive Unit         10         Trunk L           Fuel te Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universe           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	ring
Fan, Cooling       5       Transmit         Filters – Engine Oil, Fuel System       4       Transmit         Four Wheel Orive       10       Transmit         Frame       17       Tread         Front Suspension       11       Trunk C         Front Wheel Drive Unit       10       Turning         Fuel Economy, EPA       1       Turning         Fuel Injection       6       Unitized         Fuel System       6       Universe         Fuel Tank       6       Valve Sy         Glass       18       Vehicle I         Headlamps       18       Width	
Filters – Engine Oil, Fuel System         4         Transmit           Four Wheel Drive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk Li           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universa           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	on – Types
Four Wheel Orive         10         Transmit           Frame         17         Tread           Front Suspension         11         Trunk Ct           Front Wheel Drive Unit         10         Trunk Lt           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universa           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	on – Automatic
Frame         37         Tread           Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk C           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universal           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Meadlamps         18         Width	on – Manual
Front Suspension         11         Trunk C           Front Wheel Drive Unit         10         Trunk L           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universe           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	on – Ratios
Front Wheel Drive Unit         10         Trunk Lt           Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universa           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	, , ,
Fuel Economy, EPA         1         Turning           Fuel Injection         6         Unitized           Fuel System         6         Universal           Fuel Tank         6         Valve Sy           Glass         18         Vehicle Meadlamps           Headlamps         18         Width	go Load
Fuel Injection         6         Unitized           Fuel System         6         Universal           Fuel Tank         6         Valve Sy           Glass         18         Vehicle I           Headlamps         18         Width	gage Capacity
Fuel System         6         Universal           Fuel Tank         6         Valve Sy           Glass         18         Vehicle Meadlamps           Headlamps         18         Width	
Fuel Tank       6       Valve Sy         Glass       18       Vehicle I         Headlamps       18       Width	onstruction
Glass	Joints, Propeller Shaft
Glass         18         Vehicle I           Headlamps         18         Width	em . ,
	nensions ·
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Heights	
- reigna	llearance
Horns         15         Ground           Horsepower – Brake         2         Front C	mpartment
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	Compartment
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	agon - Cargo Space
	k – Cargo Space
	Marks
Lengths	
Leveling, Suspension	gulator
Lifters, Valve	~
Linings - Clutch, Brake	- np.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Lubrication - Engine Transmission / Transaxle	~
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