Specifications Form Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
FORD MOTOR COMPANY	LN7	
Mailing Address	**Model Year**	**Issued:**
P. O. BOX 2053 DEARBORN, MICHIGAN 48121	1983	APRIL, 1982 **Revised (*)**

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

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.
   c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Truck/Cargo Load—Kilograms (Pounds)
3-DOOR		67D	2/0	22.68 (50)

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Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

SERIES AVAILABILITY	ENGINE						TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in^3)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N - m (lb. ft.)	Exhaust System*		
All	1.6 (98)	2V %				S	M40D WR	3.59
	1.6 HO	2V				S	M50D ATX	3.73 3.31
	1.6	EFI %				S	M50D ATX	3.73 3.31
				ALTITUDE				
All	1.6 HO	2V				S	M40D CR	3.59

M40D Manual 4-Speed Overdrive
M50D Manual 5-Speed Overdrive
ATX Automatic 3-Speed
CR Close Ratio
WR Wide Ratio
% Not Available Canada

* S—Single D—Dual

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Engine Description/Carb. Engine Code			
	1.6L/2V (97.6 CID)	1.6L/H.O. 2V	1.6L/E.F.I.

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)		Inline, Front, Transverse, (SOHC) Single Overhead Camshaft, (CVH) Compound Valve Hemispherical Combustion Chambers	
No. of cylinders		Four	
Bore		80.0 (3.15)	
Stroke		79.5 (3.13)	
Bore spacing (c/l to c/l)		91.8 (3.61)	
Cylinder block material		Cast Iron	
Cylinder block deck height		208.6 (8.21)	
Deck clearance (minimum) (above or below block)		3.5 (0.14)-Above	5.5 (0.22)-Above
Cylinder head material		Aluminum	
Cylinder head volume (cm^3)		58.5	
Head gasket thickness (compressed)		1.3 (0.05)	
Minimum combustion chamber volume (cm^3)		52.1 (Nominal)	
Cyl. no. system (front to rear)*	L. Bank	1, 2, 3, 4	
	R. Bank	--	
Firing order		1, 3, 4, 2	
Recommended fuel (leaded, unleaded, diesel)		Unleaded	
Fuel antiknock index $\frac{(R+M)}{2}$		87 Minimum Octane	
Total dressed engine mass (wt) dry**			

Engine – Pistons

Material	Aluminum Alloy	Forged Aluminum
Mass, g (weight, oz.) – Piston Only		

Engine – Camshaft

Location		In Cylinder Head	
Material (kg., weight, lbs.)			
Mass (kg., weight, lbs.)			
Type of drive (chain or belt)	Width	25.4 (1.00) Belt	
	Pitch	9.5 (0.37)	

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

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

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Engine — Valve System

Lifters (std., opt., n.a.)	Hydraulic	Standard
	Solid	--

Engine — Connecting Rods

Material & mass (kg., weight, lbs.)	Forged Steel

Engine — Crankshaft

Material (kg., weight, lbs.)	Modular Cast Iron
Mass (kg., weight, lbs.)	
End thrust taken by bearing (no.)	#3

Engine — Lubrication System

Normal oil pressure [kPa (psi)] at engine rpm	240-450 (35-65) @ 2000 Warm Oil
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.3 (3.50)

Engine — Diesel Information (NOT OFFERED)

Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

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Engine — Fuel System

(See supplemental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			Carburetor
Carburetor	Mfgr.		Holly
	Choke (type)		Automatic-Electric
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	800 with Electric Fan "On"
			--
		Automatic	Drive: 750 RPM
			--
Idle A/F mix.			9.44 ATX (304C), 8.86 ATX (303D)
Fuel injection	Point of injection (no.)		
	Constant, pulse, flow		
	Control (electronic, mech.)		
	System pressure [kPa (psi)]		31.02 (4.5)
Intake manifold heat control (exhaust or water) thermostatic or fixed			
Air cleaner type	Standard		Pleated Paper
	Optional		N.A.
Fuel pump	Type (elec. or mech.)		Mechanical Electric
	Location (eng., tank)		6 Cylinder Head
	Pressure range [kPa (psi)]		27.6-41.4 (4.0-6.0)

Fuel Tank

Capacity [refill L (gallons)]		42.8 (11.3 Gal)
Location (describe)		In Front of Rear Axle
Attachment		Two Straps with Pin and Loop at Rear, Bolt at Front
Material		Steel (Terne Plate)
Filler pipe	Location & material	Right Rear Quarter Panel; Steel
	Connection to tank	Rubber Hoses
Fuel line (material)		Steel
Fuel hose (material)		Reinforced Rubber (Non-E.F.I.) (a)
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Optional
	Capacity [L (gallons)]	49.2 (13 Gal)
	Location & material	In Front of Rear Axle
	Attachment	Two Straps with Pin and Loop at Rear, Bolt at Front
Auxiliary tank	Opt., n.a.	N.A.
	Capacity [L (gallons)]	N.A.
	Location & material	N.A.
	Attachment	N.A.
	Selector switch or valve	N.A.
	Separate fill	N.A.

(a) Rubber Covered Nylon with Push Connect Fittings (W/E.F.I.)

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Engine — Cooling System

Coolant recovery system (std., opt., n.a.)			Standard
Coolant fill location (rad., bottle)			Radiator with Additional 1/2L Fill In Bottle
Radiator cap relief valve pressure [kPa (psi)]			110.32 (16.0)
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at °C (°F)		88.96 (192.0)
Water pump	Type (centrifugal, other)		Centrifugal
	GPM 1000 pump rpm		19L (5 GPM)
	Number of pumps		One
	Drive (V-belt, other)		Timing Belt
	Bearing (type)		Ball-Roller
By-pass recirculation [type (inter., ext.)]			External
Radiator core [type (cross-flow vertical cellular tube and fin, other) and material]			Crossflow - Copper/Brass (with A/C), Aluminum (with Heater) Tube and Fin Two Row with Plastic End Tanks
Cooling system capacity	With heater—L(qt.)		7.6 (8.0)
	With air cond.—L(qt.)		6.6 (7.0)
	Opt. equipment [specify—L(qt.)]		--
Water jackets full length of cyl. (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator core	Standard	Width	407 (16.02)
		Height	321 (12.64)
		Thickness	34 (1.34)
		Fins per DM	53 (M/T), 61 (A/T)
	A/C	Width	591 (23.27)
		Height	321 (12.64)
		Thickness	29.0 (1.14)
		Fins per inch	9.5 (M/T), 12 (A/T)
	Heavy duty	Width	--
		Height	--
		Thickness	--
		Fins per inch	--
Fan (Electric)	Number of blades & type (flex, solid, material)		Four-Solid
	Diameter & projected width		304.8 (12.0)
	Motor Rating		150-2150 RPM @ Idle
	Motor Switch		Thermostatic - Water Outlet Connection
	Switch Point(Temp)		105 (221°)
A/C	Fan shroud (material)		Metal
Fan (electric)	Diameter & projected width (a)		Two Solid - 3.04.8 (12.0)
	RPM at idle		1850
	Motor rating (wattage)		80
	Motor switch (type & location)		Thermostatic - Water Outlet Connection
	Switch point (temp., pressure)		105 (221°)
Heater	Fan shroud (material)		Metal
Fan (optional)	No. of blades and spacing		N.A.
	Diameter & projected width		N.A.
	Ratio (fan to crankshaft rev.)		N.A.
	Fan cut-out (type)		N.A.
	Drive (type, direct, remote)		N.A.

(a) No. of Blades

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection
	Air injection	Pump (type)	Van Type, Constant Disp.
		Driven by	Belt
		Air distribution (head, manifold, etc.)	Manifold and Underbody Catalyst
		Point of entry	Manifold Gallery and Catalyst
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source	Exhaust Manifold #4 Runner
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold Plenum
	Catalytic Converter	Type	TWC Converter With Pulse Air
		Number of	One
		Location(s)	Underbody
		Volume [L (in^3)]	1.52 (93)
		Substrate type	Monolithic - Ceramic
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		
	Energy source (manifold vacuum, carburetor, other)		
	Discharges (to intake manifold, other)		
	Air inlet (breather cap, other)		
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Vented to Carbon Canister
		Carburetor	
	Vapor Storage provision (crankcase, canister, other)		Carbon Canister

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator)		Reverse Flow
Resonator no. & type		N.A.
Exhaust pipe	Branch o.d., wall thickness	N.A.
	Main o.d., wall thickness	N.A.
	Material	N.A.
Intermediate pipe	o.d. & wall thickness	51 X 1.37
	Material	Low Carbon Aluminum Coated
Tail pipe	o.d. & wall thickness	57.5 X 1.07 (2.25 X .042)
	Material	Aluminized Low Carbon Steel

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Electrical — Supply System

Battery	Voltage rtg. (V & total plates)	12 Volt
	Minimum reserve cranking (a)	410
	SAE capacity (amps)	48 AH
	Location	Low-Silhouette-Mtd. in LH Apron Forward of Strut Lower
Generator, or alternator	Type and rating	Three-Phase, Full Wave Bridge Rectified
	Ratio (alt. crank/rev.)	2.33:1 (b)
	Optional (type & rating) 10300	E1EF-MA (40 Amp) Std. (b)
Regulator	Type 10316	Electronic (E2TF-AA)

Electrical — Starting System

Start. motor	Current drain at 0°F	255-275 Amps.
Motor drive	Engagement type	Positive
	Pinion engages from (front, rear)	Front

(a) Cold Cranking Amps at 0°F

(b)

Optional Alternators	Drive Ratio
E1GF-CA (60 Amp) 1.6L/1.6L H.O. With A/C	2.33:1
E1GF-EA (65 Amp) 1.6L E.F.I. With A/C	2.33:1

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Electrical — Ignition System

Type	Conventional (std., opt., n.a.)		N.A.
	Transistorized (std., opt., n.a.)		Breakerless TFI
	Other (specify)		N.A.
Coil	Make		Motorcraft
	Model		E1EF-12029-AA
	Current	Engine stopped — A	5.0
		Engine idling — A	2.5
Spark plug	Make		Motorcraft
	Model		AWSF-34 AWSF-24
	Thread (mm)		14
	Tightening torque [N-m (lb., ft.)]		10-20 (7-14)
	Gap		1.12 (0.44)
Distributor	Make		Motorcraft
	Model		Breakerless

Electrical — Suppression

Locations & type	Capacitor in Alternator, Ground Strap between Engine Block and Fender Apron Resistor Spark Plugs, Resistance Ignition Wire, Hood Bond.

Electrical — Instruments and Equipment

Speed-ometer	Type	Pointer
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		None
Charge indicator	Type	Standard Electric Gauge 45° Pointer
	Warning device	None
Temperature indicator	Type	Standard Electric Gauge 45° Pointer
	Warning device	None
Oil pressure indicator	Type	Standard Electric Gauge 45° Pointer
	Warning device	None
Fuel indicator	Type	Standard Electric Gauge 45° Pointer
	Warning device	Low Fuel Warning Light in Console - Optional
Wind-shield wiper	Type (standard)	Interval Wipe (Column-Mounted Control)
	Type (optional)	None
	Blade length	454 (18.0)
	Swept area [cm^2 ($in.^2$)]	4683.2 (725)
Wind-shield washer	Type (standard)	Electric Pump (Impeller Type)
	Type (optional)	None
	Fluid level indicator	Standard (Warning Light)
Horn	Type	Air Electric
	Number used	One - Lo-Pitch
Other	See Page 9A	

Electrical - Instruments and Equipment (Cont'd.):

- Brake System Warning Light
- Directional Turn Signal Lights
- Emergency Flashers
- Hi-Beam Indicator
- Fasten Seat Belt Warning Light
- 7000 RPM Tachometer
- Door Ajar Warning Light
- Low Washer Fluid Warning Light
- Electronic Digital Clock
- Shift-Up Indicator Light (W/Manual Transmission)
- Headlamp "On" Warning Buzzer
- Cigar Lighter

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	1.6L/2V 97.6 CID)	1.6L/H.O.2V	1.6L/EFI

Transmissions

Manual 3-speed (std., opt., n.a.)	N.A.	
Manual 4-speed (std., opt., n.a.)	Standard (a)	N.A. (c)
Manual 5-speed (std., opt., n.a.)	N.A.	Standard (b)
Manual overdrive (std., opt., n.a.)	N.A.	
Automatic (std., opt., n.a.)	N.A.	Optional
Automatic overdrive (std., opt., n.a.)	N.A.	

Manual TRANSAXLES			Wide Ratio		Close Ratio
Number of forward speeds			Four (a)	Five (b)	Four (c)
Transmission ratios	In first		3.58 (12.85)	3.60 (13.42)	3.58 (12.85)
	In second		2.05 (7.40)	2.12 (7.90)	2.05 (7.40)
	In third		1.23 (4.42)	1.39 (5.20)	1.36 (4.90)
	In fourth		0.81 (2.91)	1.02 (3.81)	0.95 (3.41)
	In fifth		--	1.02 (2.79)	--
	In overdrive		--	--	
	In reverse		3.46 (12.42)	3.62 (13.48)	3.46 (12.42)
Synchronous meshing (specify gears)			All Forward Gears		
Shift lever location			Floor		
Lubricant	Capacity [L (pt.)]		2.5 (5.3)	2.9 (6.1)	2.5 (5.3)
	Type recommended		M2C33F		
	SAE viscosity number	Summer	--		
		Winter	--		
		Extreme cold	--		

Clutch (Manual Transmission)

Make & type		Single Disc, Dry Plate
Type pressure plate springs		Belleville Spring
Total spring load [N (lb.)]		3850 (865)
No. of clutch driven discs		One
Clutch facing	Material	Woven Non-Asbestos
	Manufacturer	Valeo
	Part number	EIER-7550 - AB & BB
	Rivets/plate	12
	Rivet size	3.9 x 6.0 (5/32 x 15/64)
	Outside & inside dia.	200 (7.875) & 134 (5.275)
	Total eff. area [cm^2 ($in.^2$)]	346 (53.7)
	Thickness	3.43 (0.135)
	Engagement cushion method	Torbend Disc
Release bearing	Type & method of lubrication	Self Centering, Angular Contact, Constant Running, Prepacked
Torsional damping	Method: springs, friction material	Multi-Stage, Springs & Friction Material

FINAL DRIVE RATIOS

(a) Standard - 3.59:1
(b) Standard - 3.73:1, All Gears Except 5th; 2.73:1, 5th Gear Only. The 5-Speed is a Unique Arrangement Utilizing Dual Final Drive, One for 1st Through 4th and One for 5th. The 4th and 5th Gear Ratios are Identical.
(c) Standard with Altitude - 3.59:1

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Automatic Transmission (c)

Trade name		Transaxle (ATX)
Type (describe)		ATX - Wide Ratio, 3-Speed with Open Torque Converter in Low and Split-Torque in Intermediate and High
Selector	Location	Floor Mounted T-Bar Design
	Ltr./No. designation	P R N D 2 1
Gear ratios	R	1.97:1
	D	1.00:1
	L_3	--
	L_2	1.61:1
	L_1	2.79:1
Max. upshift speed - drive range [km/h (mph)]		104 (65) 110 (68)
Max. kickdown speed - drive range [km/h (mph)]		94 (59) 99 (62)
Min. overdrive speed [km/h (mph)]		--
Torque converter	Number of elements	Three
	Max. ratio at stall	2.37:1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	235 (9.25)
Lubricant	Capacity [refill L (pt.)]	7.4 (15.7), Including Oil Cooler Lines
	Type recommended	M2C138-CJ
Special transmission features		Three Speed w/Efficiency-Boosting Split-Torque Design in 2nd and 3rd Speeds. One Piece Aluminum Case.

Axle or Front Wheel Drive Unit

Type (front, rear)			Front Wheel Drive
Description			
Limited slip differential (type)			N.A.
Drive pinion offset			--
Drive pinion (type)			--
No. of differential pinions			Two
Pinion adjustment (shim, other) *			Select Fit Shim
Pinion bearing adj. (shim, other)			N.A.
Driving wheel bearing (type)			Tapered Roller Bearings Ball Bearing (b)
Lubricant	Capacity [L (pt.)]		2.5 (5.3) Man. Trans.; 7.4 (15.66) Auto. Trans. (a)
	Type recommended		M2C-33F Manual; M2C-138-CJ Automatic
	SAE viscosity number	Summer	--
		Winter	--
		Extreme cold	--

Axle or Transaxle Ratio and Tooth Combinations (See "Power Teams" for axle ratio usage.)

Axle ratio or overall ratio		3.31:1	3.59:1	3.73:1	4.05:1
No of teeth	Pinion	26	22	22/30#	20
	Ring gear or gear	86	79	82	81
Ring gear o.d.		--	--	--	--
Transaxle	Transfer gear ratio	--	--	--	--
	Final drive ratio	3.31:1	2.90:1	3.73/2.73#	3.28:1

(*) Differential Bearing
In 5th gear
(a) Uses lub. common with transmission
(c) NA 1.6L/2V
(b) 1983½ Transaxle (ATX)

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Axle Shafts — Front Wheel Drive

Number used			One Each, LH & RH Sides - Unequal Length
Type (straight, solid bar, tubular, etc.)		Left	Solid Bar
		Right	Tubular
Outer diam. x length * x wall thick-ness	Manual transmission 4-Speed O.D.	Left	26 X 322 (1.02 X 12.68) (a)
		Right	45 X 639.5 X 2.5 (1.77 X 25.18 X 0.10) (b)
	Automatic transmission 3-Speed Opt. (d)	Left	26 X 322 (1.02 X 12.68) (c)
		Right	45 X 639.5 X 2.5 (1.77 X 25.18 X 0.10) (b)
	Optional transmission Man. 5-Spd O.D.	Left	26 X 322 (1.02 X 12.68) (a)
		Right	45 X 639.5 X 2.5 (1.77 X 25.18 X 0.10) (b)
Slip yoke	Type		N.A.
	Number of teeth		N.A.
	Spline o.d.		N.A.
Universal joints	Make and mfg. no.	Inner	GKN & NTN
		Outer	GKN & NTN
	Number used		2 Inner & 2 Outer (4 Total)
	Type, size, plunge	Inner	82 ST D.O.I., 46 (1.81) Plunge
		Outer	87 AC Fixed
	Attach (u-bolt, clamp, etc.)		Non Bolted
	Bearing — Type (plain, anti-friction)		N.A.
	Bearing — Lubric. (fitting, prepack)		N.A.
Drive taken through (torque tube, arms or springs)			N.A.
Torque taken through (torque tube, arms or springs)			N.A.

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

Alternate Axle Shafts - Interim Availability

(a) 24.2 X 322 (0.95 X 12.68)
(b) 45 X 649 X 2.5 (1.77 X 25.55 X 0.10)
(c) Changes to 24.2 X 305 (0.95 X 12.01)
(d) Available with H.O. or E.F.I. only

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Engine Description/Carb. Engine Code	ALL MODELS

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P165/80R13 BSW (RWL - Optional)
	Type (bias, radial, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	206.9 (30)
		Rear (kPa (psi))	206.9 (30)
	Rev./mile—at 70 km/h (45 mph)		882-898
Wheels	Type & material		Disc - Styled Stamped Steel
	Rim (size & flange type) mm (In.)		330 x 127 (13 x 5.0)
	Wheel offset mm (In.)		41.4 (1.63)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	108 (4¼)
		Number & size	Four - ½ - 20
Spare	Tire and wheel (same, if other describe)		P155/80D13 BSW 35 PSI 330 x 114.3 (13 x 4.5) 240 kPa 41.4 (1.63) Offset Painted Black Temporal Spare
	Storage position & location (describe)		Flat Position, Deep Well in Trunk

Tires And Wheels (Optional)

Size (load range, ply)	P165/70 R365 BSW
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Disc. Styled Stamped Steel
Rim (size, flange type and offset)	Steel - 365 x 135 (14.3 x 5.3) TRX Offset 41.4 (1.63)
Size (load range, ply)	P165/70 R365 BSW
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Cast Aluminum
Rim (size, flange type and offset)	365 x 135 (14.3 x 5.3) Offset 41.4 (1.63)
Size (load range, ply)	P175/80R13 BSW
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Cast Aluminum
Rim (size, flange type and offset)	330 x 140 (13 x 5½) Offset 41.4 (1.63)
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	No Optional Spare Tire or Wheel

Brakes — Parking

Type of control		Hand Operated - Manual Release
Location of control		Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	- -
	Drum diameter	- -
	Lining size (length x width x thickness)	- -

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Body Type And/Or Engine Displacement

ALL MODELS

Brakes — Service

Description				Four Wheel Hydraulic Actuated System
Brake type (std., opt., n.a.)			Front (disc or drum)	Disc
			Rear (disc or drum)	Drum
Self-adjusting (std., opt., n.a.)				Standard
Special valving	Type (proportion, delay, metering, other)			Pressure Differential and Proportioning
Power brake (std., opt., n.a.)				Standard
Booster type (remote, integral, vac., hyd., etc.)				200 (7.87) Single Diaphragm - Integral Vacuum
Anti-skid device type (std., opt., n.a.)				N.A.
Effective area [cm^2($in.^2$)]* (Front/Rear)				163.2 (25.3)/271.6 (42.1)
Gross lining area [cm^2($in.^2$)]** (Front/Rear)				175.0 (28.0)/287.0 (44.5)
Swept area [cm^2($in.^2$)]*** (Front/Rear)				951 (147.4)/433.7 (67.2)
Rotor	Outer working diameter		F	236 (9.29)
			R	--
	Inner working diameter		F	154 (6.06)
			R	--
	Thickness		F	24 (.94)
			R	--
	Material & type (vented/solid)		F	Cast Iron, Vented
			R	--
Drum	Diameter (nominal)		F	--
			R	203 (8.0)
	Type and material			Composite and Cast Iron
Wheel cylinder bore	Front			54 (2.13)
	Rear			20.6 (.81)
Master cylinder	Bore			21 (.827)
	Stroke			34.3 (1.35)
Pedal arc ratio				3.5:1
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				
Lining clearance per shoe	Front			0.127 (.005)
	Rear			0.381 (.015)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Riveted, 6/Seg.
		Rivet size		4.7 (.185)
		Manufacturer		Thiokol
		Lining code		TP-1353M-FF
		Material		Molded Organic
		**** Size	Primary or out-board	103 x 39.7 x 11.1 (4.05 x 1.56 x .437)
			Secondary or in-board	103 x 39.7 x 11.1 (4.05 x 1.56 x .437)
		Shoe thickness (no lining)		4.8 (.189) Nominal
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted 10/Seg.
		Manufacturer		Bendix
		Lining code		BX MO FF
		Material		Molded Organic
		**** Size	Primary or out-board	211 x 34 x 4.5 (8.3 x 1.34 x .18)
			Secondary or in-board	211 x 34 x 4.5 (8.3 x 1.34 x .18)
		Shoe thickness (no lining)		1.89 (.074) Nominal

* Excludes rivet holes, grooves, chamfers, etc.

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

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

**** Size for drum brakes includes length x thickness.

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Body Type And/Or Engine Displacement	ALL MODELS

Steering

Manual (std., opt., n.a.)				Standard
Power (std., opt., n.a.)				Optional
Adjustable steering wheel (tilt, swing, other)		Type and description		None
		(Std., opt., n.a.)		N.A.
Wheel diameter		Manual mm (in.)		381 (15)
		Power mm (in.)		381 (15)
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		11.88 (35.54)
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Manual	Gear	Type		Rack and Pinion
		Make		Cam Gear Ltd.
		Ratios	Gear	10.36° per mm of Rack Travel
			Overall	21.2:1 (On Center)
	No. wheel turns (stop to stop)			3.5
Power	Type (coaxial, linkage, etc.)			Integral Rack and Pinion
	Make			TRW Gear - Ford Pump, Fluid ESP-M2C138CJ
	Gear	Type		Rack and Pinion (Constant Ratio)
		Ratios	Gear	8.94°/mm of Rack Travel
			Overall	18.4:1 (On Center) 14.4:1 (At Stops)
	Pump (drive)			Belt Off Crankshaft Pulley
	No. wheel turns (stop to stop)			3.04
Linkage	Type			Integral with Gear
	Location (front or rear of wheels, other)			Rear
	Drag links (trans. or longit.)			N.A.
	Tie rods (one or two)			2 Integral with Gear
Steering axis	Inclination at camber (deg.)			Left -- 14.64°; Right -- 15.09°
	Bearings (type)	Upper		Shock Strut Shaft
		Lower		Ball Joint
		Thrust		N.A.
Steering spindle & joint type				Cast Spindle Support w/Integral Strg. Arm
Wheel Hub	Diameter	Inner bearing mm (in.)		34.977 - 34.957 (1.38 - 1.376)
		Outer bearing mm (in.)		34.977 - 34.957 (1.38 - 1.376)
	Thread (size) CV Joint Outer Race			M20x 1.5
	Bearing (type)			Non-Adjustable Tapered Roller

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ALL MODELS

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+0.55° to 2.05° (a)
		Camber (deg.)	Left +1.4° to 2.9°; Right 0.95° to 2.45° (b)
		Toe-in [outside track-mm (in.)]	-5.6 (-.22) to +0.5 (+.02) (c)
	Service reset*	Caster	+1.30° ± 0.75° (a)
		Camber	Left +2.15° ± 0.75; Right +1.70 ± 0.75° (b)
		Toe-in	-2.5 ± 3.0 (-.10 ± .12) (c)
	Periodic M.V. inspection	Caster	-0.70° to 3.3°
		Camber	Left +.65° to 3.65°; Right +0.20 to 3.20°
		Toe-in	-13 (-.50) to +6 (+.25)
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0.6° ± .85°
		Toe-in [outside track-mm (in.)]	+5 (0.18) ± (0.18)
	Service reset*	Camber	-0.6° ± .85°
		Toe-in	+5 (0.18) ± 5 (0.18)
	Periodic M.V. inspection	Camber	-0.6° ± 2.0°
		Toe-in	+5 (0.18) ± 12 (0.50)

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

(a) Max. Side to Side Difference Not to Exceed 0.75°
(b) Max. Side to Side (Left-Right) to be .45° ± 0.75°
(c) Steering Wheel Spokes (Clear Vision) Must be Within ± 10° After Toe Setting

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Body Type And/Or Engine Displacement	ALL MODELS

Suspension — General

Car leveling	Std./opt./n.a.	N.A.
	Type (air, hyd., etc.)	--
	Manual/auto. controlled	--
Provision for brake dip control		N.A.
Provision for accl. squat control		N.A.
Special provisions for car jacking		Notched Rocker Panel Positions
Shock absorber (front & rear)	Type	Strut Type - Front and Rear
	Make	Motorcraft
	Piston diameter	27 (1.06) Front and Rear
Other special features		--

Suspension — Front

Type and description		McPherson Strut - Indep., Front Drive with Strut Mounted Coil Spring; Stabilizer Bar - Track Control Arm
Travel	Full jounce	75.9 (2.98)
	Full rebound	88.1 (3.47)
Spring	Type (coil, leaf, other)	Coil
	Material	SAE-5160-H
	Size (coil design height & i.d., bar length x dia.)	Des.Ht.-166.5, I.D.-86.0, Lgth - 2680, Dia.-11.11; Base Des.Ht.-166.5, I.D.-86.0, Lgth - 2392, Dia.-11.62, RPO
	Spring rate [N/mm (lb./in.)]	21.0 (120) - Base; 28.0 (160) - RPO
	Rate at wheel [N/mm (lb./in.)]	18.1 (103) - Base; 23.5 (134) - RPO
Stabilizer	Type (link, linkless, frameless)	Linkless, Dual Function Strut/Stabilizer
	Material & bar diameter	Modified 1090, 24.0 (0.94) - Base, 26.0 (1.02) - RPO

Suspension — Rear

Type and description			Modified McPherson-Strut Type; Independent, Non-Driven w/Coil Spring on Lower Arm - Tie Bar - Cont. Arm-Forged Spndl
Drive and torque taken through			--
Travel	Full jounce		Base - 91.5 TRX - 111.9
	Full rebound		Base - 102.3 TRX - 83.7
Spring	Type (coil, leaf, other)		Coil
	Material		SAE-5160-H Steel
	Size (length x width, coil design height & i.d., bar length & dia.)		Design Hgt. - Base - 148, TRX - 160 ID - 84 Wire Dia. - Base - 11.85, TRX - 12.55
	Spring rate [N/mm (lb./in.)]		Base - 34.1 TRX - 45.5 (260)
	Rate at wheel [N/mm (lb./in.)]		Base - 15.7 TRX - 20.5 (117)
	Mounting insulation (type)		Upper (Rubber) Insulator - Helical to Match Spring
	If leaf	No. of leaves	--
		Shackle (comp. or tens.)	--
Stabilizer	Type (link, linkless, frameless)		--
	Material & bar diameter		--
Track bar (type)			None

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Body Type	ALL MODELS

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)			Enamel (Acrylic)
Hood	Hinge location (front, rear)		Rear
	Type (counterbalance, prop)		
	Release control (internal, external)		Internal
Trunk lid	Type (counterbalance, other)		
	Internal release control (elec., mech., n.a.)		
Bumper front	Bar material & mass (wt.)		Polyurethane Fascia - 8.6 Lb.
	Reinforcement material & mass (wt.)		Reinforcement Behind Fascia - 6061 Aluminum - 13.3 lb.
Bumper rear	Bar material & mass (wt.)		Polyurethane Fascia - 6.2 lb.
	Reinforcement material & mass (wt.)		Reinf. Behind Fascia-7021 Alum.-12.0 lb or HSLA-30.2 lb.
Vent window control (crank, friction, pivot, power)		Front	None
		Rear	None
Seat cushion type		Front	Stamped Frame-Coil Spring & Flexolater-Foam Pad
		Rear	None
		3rd seat	None
Seat back type		Front	Stamped Frame-Foam Pad
		Rear	None
		3rd seat	None
Vehicle ident. no. location			Cowl Top Inner Panel - L.H.

Passive Restraint System (NOT OFFERED)

Inflatable restraint system	Standard/ optional	
	Type of charging system	
	Location (stg. whl., instru. panel, other)	
Passive seat belts	Standard/ optional	
	Power/ manual	
	2 or 3 point	
	Knee bar/ lap belt	

Frame

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

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Body Type	ALL MODELS

Convenience Equipment

Power windows	Side windows	N.A.
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (r-l or both)		Both Standard; Optional Sport Seat
Radio (specify type as well as availability)		AM-Standard; Optional - AM/FM Monaural, AM/FM/MPX Stereo, AM/FM/MPX Cassette, AM (Delete), AM/FM/MPX 8 Track Tape
Premium sound system (specify)		Available with Any MPX Radio
Rear seat speaker		Included with Stereo Radios
Power antenna		N.A.
Clock		Standard - Electronic
Air conditioner (specify type)		Optional (Manual)
Speed warning device		N.A.
Speed control device		Optional
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Standard
Luggage compartment lamp		Standard
Underhood lamp		Standard
Courtesy lamp		Standard
Map lamp		Standard
Cornering lamp		N.A.
Rear window defroster electrically heated		Standard
Rear window defogger		N.A.
T-bar roof (describe)		N.A.
Sun roof (describe)		Flip-up/Open Air
Theft protection—type		N.A.

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

(REFER TO 1983 PRESS KIT FOR DETAILS)

BODY:

CHASSIS:

ENGINE:

ELECTRICAL:

OTHER:

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Model	Vehicle Mass (weight)							
	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg. (weight, lb.)** *
				Pass In Front		Pass In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
3-Door 67D	607	381	988					951
	(1339)	(840)	(2179)	(44)	(56)	(13)	(87)	(2097)

* Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition — Less Engine Coolant and Fuel.

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Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
ENGINES:				
1.6L E.F.I.	1.4	0	1.4	
	(3)	(0)	(3)	
1.6L H.O.	-0.9	0	-0.9	
	(-2)	(0)	(-2)	
EMISSION SYSTEM:				
High Altitude	0.5	0	0.5	
	(1)	(0)	(1)	
California	0.5	0	0.5	
	(1)	(0)	(1)	
Canada	-10.9	-0.9	-11.8	
	(-24)	(-2)	(-26)	
TRANSAXLE:				
Automatic ATX	32.2	-2.3	29.9	
	(71)	(-5)	(66)	
Manual MTX III (5 SPM)	5.4	-0.5	5.0	
	(12)	(-1)	(11)	
TIRES (STEEL BELT):				
P165/80R-13 RWL	0.5	0.5	0.9	
	(1)	(1)	(2)	
P175/80R13 Rad. WSW	1.8	1.4	3.2	
	(4)	(3)	(7)	
P175/80R13 Rad. Blk.	1.4	0.9	2.3	
	(3)	(2)	(5)	
P175/80R13 Blk.	1.4	0.9	2.3	
	(3)	(2)	(5)	
P165/70R 365 and TRX Package	3.6	0.9	4.5	Includes TRX Suspension
	(8)	(2)	(10)	
MISCELLANEOUS OPTIONS:				
Air Conditioner - Manual MTX & M5 Sp.	23.1	0	23.1	
	(55)	(0)	(51)	
Air Conditioner - Manual ATX	23.6	0	23.6	
	(52)	(0)	(52)	
Alternator, H.D. 60 Amp	0.5	0	0.5	
	(1)	(0)	(1)	
Engine Block Heater	0.5	0	0.5	
	(1)	(0)	(1)	
Luggage Rack	0.9	2.7	3.6	
	(2)	(6)	(8)	

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

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Equipment	Optional Equipment Differential Mass (weight)* MASS, kg. (weight, lb.) Front	Rear	Total	Remarks
MISCELLANEOUS OPTIONS: (Cont'd.)				
AM Radio Delete	-1.4	-0.5	-1.8	
	(-3)	(-1)	(-4)	
AM/FM Monaural	0.5	0	0.5	
	(1)	(0)	(1)	
AM/FM MPX	0.9	0.9	1.8	
	(2)	(2)	(4)	
AM/FM MPX Cassette	1.4	0.9	2.3	
	(3)	(2)	(5)	
AM/FM MPX 8-Track	1.4	0.9	2.3	
	(3)	(2)	(5)	
Premium Sound	0	1.8	1.8	
	(0)	(4)	(4)	
Roof Flip-Up Sun	3.2	7.3	10.4	
	(7)	(16)	(23)	
Speed Control	2.3	0	2.3	
	(5)	(0)	(5)	
Steering, Power	9.1	0.9	10	
	(20)	(2)	(22)	
Seats, Manual Recliner Special	2.3	2.7	5	
	(5)	(6)	(11)	
Seats, Hi-Back Recliner Manual	0.9	1.8	2.7	
	(2)	(4)	(6)	
Wheels - Aluminum	-3.6	-3.6	-7.2	
	(-8)	(-8)	(-16)	
Wide Alum-Spoke, TRX	0	0.5	0.5	
	(0)	(1)	(1)	
Styled Steel - White, TRX	4.5	4.5	9	
	(10)	(10)	(20)	
Convenience Group - Equipment	0.9	0.9	1.8	
	(2)	(2)	(4)	
Protection-Road Abrasion	0.5	0.5	0.9	
	(1)	(1)	(2)	

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

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Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
MISCELLANEOUS OPTIONS:				
Protection-R.A. W/CSB	0.9	0.9	1.8	
	(2)	(2)	(4)	
Appearance Protection	0.9	0.5	1.4	
Group	(2)	(1)	(3)	

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

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Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	3-DOOR (67D)
Width		
Tread (front)	W101	1390 (54.7)
Tread (rear)	W102	1422 (56.0)
Vehicle width	W103	1673 (65.9)
Body width at Sg RP (front)	W117	1601 (63.0)
Vehicle width (front doors open)	W120	3662 (144.2)
Vehicle width (rear doors open)	W121	
Length		
Wheelbase	L101	2393 (94.2)
Vehicle length	L103	4326 (170.3)
Overhang (front)	L104	973 (38.3)
Overhang (rear)	L105	960 (37.8)
Upper structure length	L123	2166 (85.3)
Rear wheel C/L "X" coordinate	L127	4166 (85.3)
Cowl point "X" coordinate	L125	188 (7.4)
Height*		
Passenger distribution (frt./rear)	PD1.2.3	2-0
Trunk/cargo load		22.68 (50.0)
Vehicle height	H101	1282 (50.5)
Cowl point to ground	H114	914 (36.0)
Deck point to ground	H138	921 (36.3)
Rocker panel-front to ground	H112	203 (8.0)
Bottom of door closed-front to grd.	H133	285 (11.2)
Rocker panel-rear to ground	H111	207 (8.1)
Bottom of door closed-rear to grd.	H135	--
Ground Clearance*		
Front bumper to ground	H102	360 (14.2)
Rear bumper to ground	H104	340 (13.4)
Bumper to ground (front at curb mass (wt.))	H103	436 (17.1)
Bumper to ground (rear at curb mass (wt.))	H105	392 (15.4)
Angle of approach	H106	20.7°
Angle of departure	H107	21.1°
Ramp breakover angle	H147	14.8°
Rear axle differential to ground	H153	--
Min. running ground clearance	H156	134 (5.3)
Location of min. run. grd. clear.		Exhaust Pipe @ 2336 Longitudinal Coorinate

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manuafacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

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Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	
		3-DOOR (67D)

Front Compartment

Sg RP front, "X" coordinate	L31	3108	(43.6)
Effective head room	H61	943	(37.1)
Max. eff. leg room (accelerator)	L34	1061	(41.8)
Sg RP (front to heel)	H30	208	(8.2)
Design H-point front travel	L17	180	(7.1)
Shoulder room	W3	1302	(51.3)
Hip room	W5	1279	(50.3)
Upper body opening to ground	H50	1175	(46.3)
Steering wheel angle	H18	592	(23.3)
Back angle	L40	24.0°	

Rear Compartment (NOT APPLICABLE)

Sg RP Point couple distance	L50	
Effective head room	H63	
Min. effective leg room	L51	
Sg RP (second to heel)	H31	
Knee clearance	L48	
Compartment room	L3	
Shoulder room	W4	
Hip room	W6	
Upper body opening to ground	H51	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	N.A.	
Liftover height	H195	765	(30.1)

All linear dimensions are in millimeters (inches).

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Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	3-DOOR (67D)

Station Wagon — Third Seat (NOT APPLICABLE)

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	

Station Wagon — Cargo Space (NOT APPLICABLE)

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

Hatchback — Cargo Space

Front seat back to load floor height	H197	484	(19.1)		
Cargo length at front seat back height	L208	1125	(44.3)		
Cargo length at floor (front)	L209	1593	(62.7)		
Cargo volume index [m^3($ft.^3$)]	V3	.92	(32.4)*	.82	(28.8)#
Hidden cargo volume [m^3($ft.^3$)]	V4	--			

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

* With Hi-Back Seat

\# With Lo-Back Seat

MVMA Specifications Form
Passenger Car

Car Line LN7

Model Year 1983 Issued _____ Revised (•) _____

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	ALL MODELS

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
1 & 2 Front	The rear vertical edge of the master control notch on the under side of the front door rocker panels locates the "X" coordinate relative to body grid. X = 2535 (99.8) Y = 721 (28.4) Z = 486 (19.1)
3 & 4 Rear	The intersection of the horizontal-vertical surfaces on the rocker panel door rabbet locates the "Y" and "Z" coordinates relative to body grid at particular fore-aft inch lines. The fore-aft location can be determined by the reference dimension from - Fiducial Mark 1 and 2.

Fiducial Mark Number		
Front	W21	721 (28.4)
	L54	2535 (99.8)
	H81	485 (19.1)
	H161	- -
	H163	- -
Rear	W22	721 (28.4)
	L55	3300 (129.9)
	H82	479 (18.9)
	H162	- -
	H164	- -

* Reference — SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks — September, 1973.
All linear dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car

Car Line LN7

Model Year 1983 Issued _____ Revised (*) _____

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	ALL MODELS

Glass

Backlight slope angle (deg.)	H121	61.2°
Windshield slope angle (deg.)	H122	59°
Tumble-Home (deg.)	W122	18.9°
Windshield glass exposed surface area [cm^2($in.^2$)]	S1	6844 (1060.8)
Side glass exposed surface area [cm^2($in.^2$)]	S2	Door: 2457 (381.2) Quarter Glass: 576 (89.3)
Backlight glass exposed surface area [cm^2($in.^2$)]	S3	12243 (1897.5)
Total glass exposed surface area [cm^2($in.^2$)]	S4	25155 (3899.3)
Windshield glass (type)		Laminated
Side glass (type)		Tempered
Backlight glass (type)		Tempered

Lamps and Headlamp Shape*

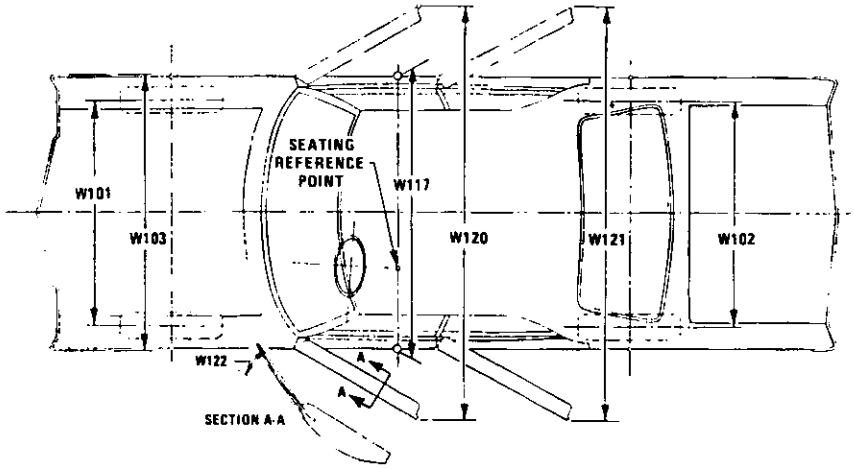
Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	643.0 (25.3)
		Lowest	--
	Taillamp (H128)	Highest**	727.5 (28.6)
		Lowest	727.5 (28.6)
	Sidemarker	Front	489.0 (19.3)
		Rear	700.0 (27.6)
Distance from C/L of car to center of bulb	Headlamp	Inside	--
		Outside**	11.03 (43.4)
	Taillamp	Inside	393.5 (15.5)
		Outside**	650.5 (25.6)
	Directional	Front	765.5 (30.1)
		Rear	521.5 (20.5) Inner Lamp 650.5 (25.6) Outer Lamp
Headlamp shape			Rectangular - Single Halogen Type

* Measured at curb mass (weight).
** If single lamps are used enter here.

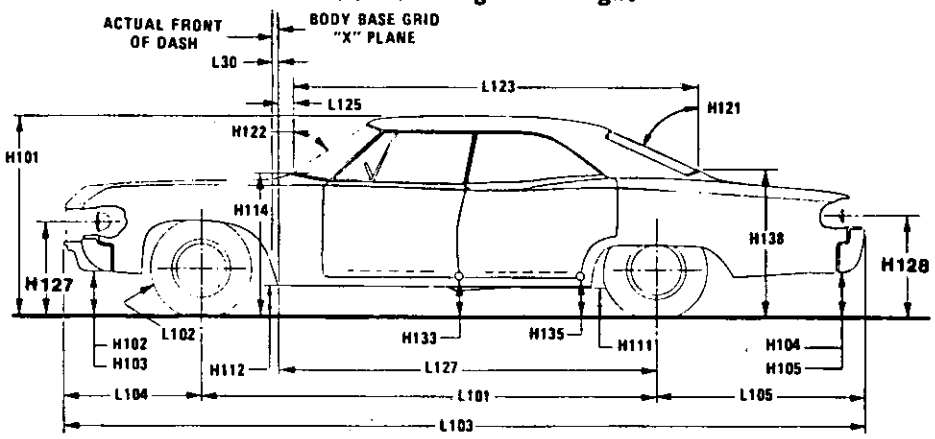
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

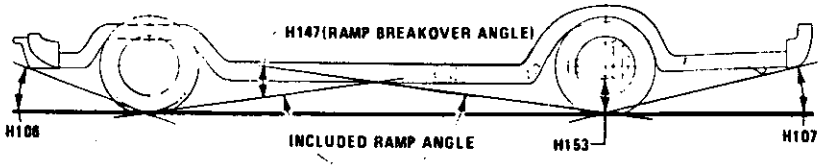
Exterior Width



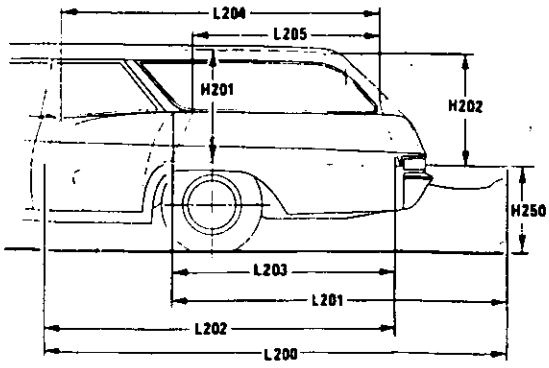
Exterior Length & Height



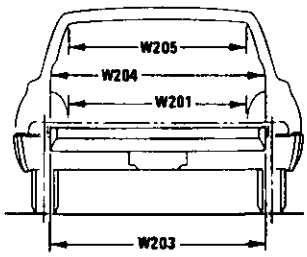
Exterior Ground Clearance

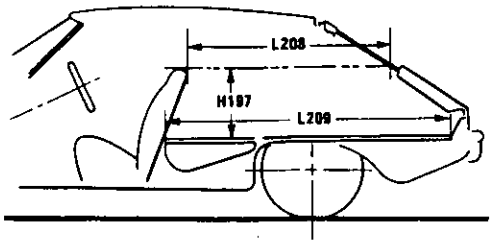


Cargo Space



Station Wagon



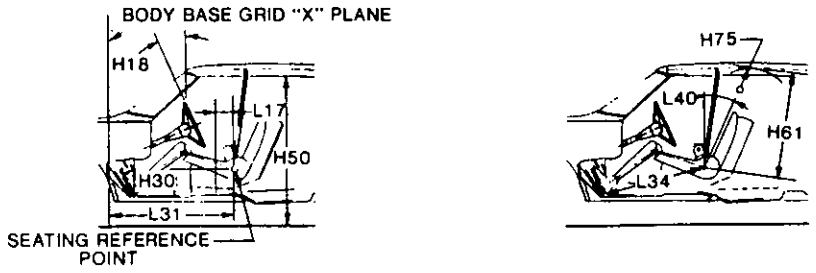


Hatchback

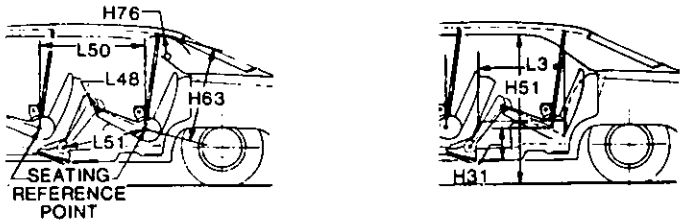
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

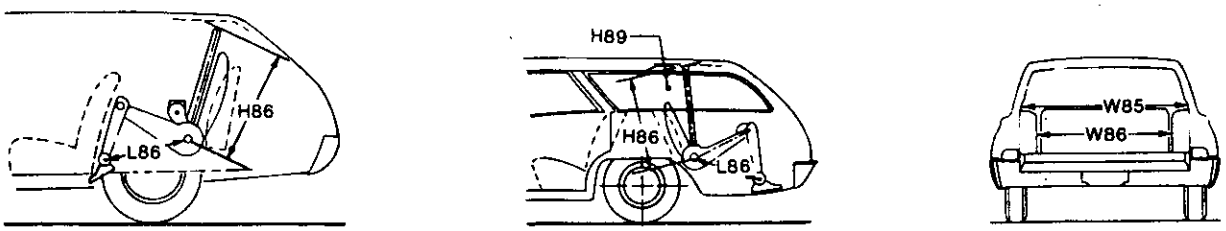
Front Compartment



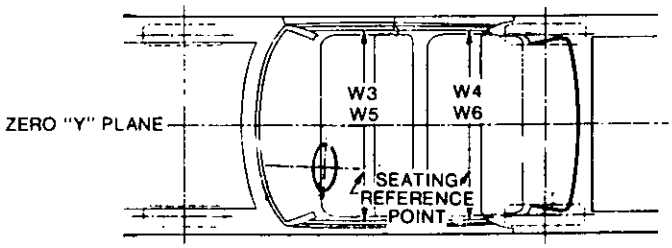
Rear Compartment



Third Seat



Interior Width



MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car 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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD—FRONT. The dimension measured between the tire centerlines at the ground.

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

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.

W120 VEHICLE WIDTH—FRONT DOORS OPEN. The dimension 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.

W122 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.

Length Dimensions

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.

L101 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.

L102 TIRE SIZE. As specified by the manufacturer.

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

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

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

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

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

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

H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H121 BACKLIGHT SLOPE ANGLE. The angle between the 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 are 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.

H127 HEADLAMP TO GROUND—CURB MASS (WT.). The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND—CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

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

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

H103 FRONT BUMPER TO GROUND·CURB MASS (WT.). Measured in the same manner as H104.

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

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

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

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground: The limiting component shall be designated.

H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

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

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

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).

H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

L34 MAXIMUM EFFECTIVE LEG ROOM—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.

H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.

L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.

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

H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.

L40 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.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND.

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.

H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).

H31 SgRP—SECOND TO HEEL. The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering.

L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).

L3 COMPARTMENT ROOM—SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.

W6 HIP ROOM—SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.

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.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Station Wagon — Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD.

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.

W86 HIP ROOM— THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).

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.).

H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75.

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METRIC (U.S. Customary)

Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

Station Wagon — 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 on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and 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 back panel 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 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.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated 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.

V2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{(cubic meter)}$$

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

V3 HATCHBACK.

Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{(cubic meter)}$$

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