

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	Car Line REGAL REGAL LIMITED REGAL T TYPE	
Mailing Address 902 E. Hamilton Ave. Flint, Michigan 48550	Issued 10-31-85	Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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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.

Blank Forms Provided by Technical Affairs Division


Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
REGAL COUPE		4GJ47	3/3	72.8 (160)
REGAL T TYPE COUPE		4GK47 (OPT. ON 4GJ47)	3/3	72.8 (160)
REGAL LIMITED COUPE		4GM47 (OPT. ON 4GJ47)	3/3	72.8 (160)

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Power Teams (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N•m (lb. ft.)			
REGAL (S) REGAL LIMITED	3.8L (231) V-6 LD5	2BBL	8.0:1	82 @ (110) @ 3800	258 @ (190) @ 1600	S	AUTO. 200 CONV. CLUTCH	2.41/3.08/3.23 FED/CALIF.
(O)	5.0L (307) V-8 LV2	4BBL	8.0:1	140@ 3200	255@ 2000	S	AUTO 125 AUTO. TRANS WITH OVERDRIVE	2.56/3.08 FED/CALIF. 2.14/2.56 FED/CALIF.
REGAL (S) T TYPE	3.8L SFI TURBO V-6 LC2	SFI	8.0:1	175.2@ (235) @ 4400	447 @ (330) @ 2800	D	AUTO TRANS WITH OVERDRIVE	3.42 FED/CALIF

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**Engine Description/Carb.
Engine Code**

3.8L (231 CID) V-6 (LD5)	3.8L SFI TURBO (231 CID) V-6 (LC2)
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ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)		90° V-6 LONGITUDINAL - FRONT	
Manufacturer			
No. of cylinders		6	
Bore		96.52 (3.800)	
Stroke		86.36 (3.400)	
Bore spacing (C/L to C/L)		107.7 (4.34)	
Cylinder block material & mass kg (lbs.)		CAST IRON 51.200 (112.874)	53.96 (118.959)
Cylinder block deck height		241.9 (9.522)	
Deck clearance (minimum) (above or below block)		.58 (.023) BELOW	
Cylinder head material & mass kg (lbs.)		CAST IRON 29.0421 ()	29.70 ()
Cylinder head volume (cm³)		46.70 (2.85)	
Head gasket thickness (compressed)		1.58 (.062)	
Minimum combustion chamber total volume (cm³)		87.67 (5.35)	
Cyl. no. system (front to rear)*	L. Bank	1-3-5	
	R. Bank	2-4-6	
Firing order		1-6-5-4-3-2	
Intake manifold material & mass [kg (weight, lbs.)]		ALUMINUM 7.170 (15.817)	7.010 (15.454)
Exhaust manifold material & mass [kg (weight, lbs.)]		LEFT EXHAUST 3.996 (8.809)	1.874 (4.131)
Recommended fuel (leaded, unleaded, diesel)		RIGHT EXHAUST 5.200 (11.463)	2.492 (5.493)
		UNLEADED	
Fuel antiknock index (R + M) 2		87	
Total dressed engine mass (wt) dry**			

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	523 (18.45)	CAST ALUMINUM ALLOY	643 (22.68)
--	-------------	---------------------	-------------

Engine – Camshaft

Location	ABOVE CRANKSHAFT AT CENTER OF 'V'		
Material & mass kg (weight, lbs.)	CAST IRON ALLOY (7.1) 3.22		
Drive type	Chain / belt	CHAIN	
	Width / pitch	22.23 (.875)/9.53 (.375)	

* 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 Description/Carb.
Engine Code**

5.0L
(307 CID) V8 (LV2)

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90° LONGITUDINAL
Manufacturer	
No. of cylinders	8
Bore	96.50 (3.800)
Stroke	85.98 (3.385)
Bore spacing (C/L to C/L)	117.5 (4.624)
Cylinder block material & mass kg (lbs.)	CAST IRON
Cylinder block deck height	237 (9.330)
Deck clearance (minimum) (above or below block)	.29 BELOW (.0116IN)
Cylinder head material & mass kg (lbs.)	CAST IRON
Cylinder head volume (cm ³)	63.45 (3.87)
Head gasket thickness (compressed)	1.07 (.42 ± .002)
Minimum combustion chamber total volume (cm ³)	86.05 (5.25)
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7
	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass [kg (weight, lbs.)]	
Exhaust manifold material & mass [kg (weight, lbs.)]	
Recommended fuel (leaded, unleaded, diesel)	UNLEADED
Fuel antiknock index (R + M) 2	87
Total dressed engine mass (wt) dry**	267.0 (588.6)

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	ALUMINUM ALLOY
	564.2 (19.9)

Engine – Camshaft

Location	CENTER
Material & mass kg (weight, lbs.)	CAST IRON
	4.940 (10.89)
Drive type	Chain / belt
	GEAR TO GEAR: DIRECT DRIVE
	Width / pitch
	NA

* 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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3.8L (231 CID) V-6 (LD5)	3.8L SFI TURBO (231 CID) V-6 (LC2)
-----------------------------	---------------------------------------

Engine – Valve System

Hydraulic lifters (std., opt., NA)		STANDARD
Valves	Number intake / exhaust	6/6
	Head O.D. intake / exhaust	43.4/38.1

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]	PEARLITIC MALLEABLE IRON .697 * (1.534)
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Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]		NODULAR IRON - 15.98 (35.22)
End thrust taken by bearing (no.)		TWO
Number of main bearings		FOUR
Seal (material, one, two piece design, etc.)	Front	ONE PIECE ROPE
	Rear	TWO PIECE ROPE

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	255 (37) @ 2400	
Type oil intake (floating, stationary)	STATIONARY	
Oil filter system (full flow, part, other)	FULL FLOW	
Capacity of c/case, less filter-refill-L (qt.)	3.78 (4.0)	4.73 (5.0)

Engine – Diesel Information

Diesel engine manufacturer		N/A
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel in-jection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine – Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine Description/Carb.
Engine Code

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(307 CID) V8 (LV2)

Engine – Valve System

Hydraulic lifters (std., opt., NA)	STANDARD
Valves	N.A.
Number intake / exhaust	
Head O.D. intake / exhaust	

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]	STEEL SAE #1140.70 (1.54)
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Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]	NODULAR IRON
End thrust taken by bearing (no.)	22,100 (48.72)
Number of main bearings	#3
Seal (material, one, two piece design, etc.)	Front
	Rear

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	207-310 (30-45) @ 1500 RPM
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW
Capacity of c/case, less filter-refill-L (qt.)	3.75 (4.0) - 5 QTS W/FILTER

Engine – Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pressure [kPa (psi)]
Pre-chamber design	
Fuel in-jection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine – Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine – Cooling System

Coolant recovery system (std., opt., n.a.)		STANDARD	
Coolant fill location (rad., bottle)		BOTTLE	
Radiator cap relief valve pressure [kPa (psi)]		103.5 (15)	
Circulation thermostat	Type (choke, bypass)	CHOKE	
	Starts to open at °C (°F)	91 (195)	82 (180)
Water pump	Type (centrifugal, other)	CENTRIFUGAL	
	GPM 1000 pump rpm	9.0	
	Number of pumps	ONE	
	Drive (V-belt, other)	V-BELT	
	Bearing type	TWO ROW BALL	
	Impeller material		
	Housing material		
By-pass recirculation [type (inter., ext.)]		EXTERIOR	
Cooling system capacity	With heater–L(qt.)	12.32	12.68
	With air cond.–L(qt.)	12.32	11.7
	Opt. equipment [specify–L(qt.)]	12.32	11.7
Water jackets full length of cyl. (yes, no)			
Water all around cylinder (yes, no)			
Water jackets open at head face (yes, no)			
Radiator core	Std., A/C, HD	STANDARD	
	Type (cross-flow, etc.)		
	Construction (fin & tube mechanical, braze, etc.)		
	Material, mass [kg (wgt, lbs.)]		
	Width	528 (20.8)	
	Height	431 (16.97)	
	Thickness	31.5 (1.24)	40.2
	Fins per inch	3.3	6.3
Radiator end tank material			
Fan	Std., elec., opt.	STANDARD	
	Number of blades & type (flex, solid, material)	5 BLADE STAGGERED SOLID	
	Diameter & projected width	508 (20.0) x 3.3	
	Ratio (fan to crankshaft rev.)	1.27:1	
	Fan cutout type	THERMO CLUTCH (VISCOUS)	
	Drive type (direct, remote)	BELT DRIVE (DIRECT)	
	RPM at idle (elec.)		
	Motor rating (wattage) (elec.)		
	Motor switch (type & location) (elec.)		
	Switch point (temp., pressure) (elec.)		
	Fan shroud (material)	PLASTIC - GLASS FILLED	

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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	FUEL INJECTION
Carburetor	Mfgr.		
	Choke (type)		
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	
		Automatic	
Idle A/F mix.			
Fuel injection	Point of injection (no.)	PORT	
	Constant, pulse, flow	PULSE	
	Control (electronic, mech.)	ELECTRONIC	
	System pressure [kPa (psi)]	180-350 KPA (26.5-51.5 PSI)	
Intake manifold heat control (exhaust or water thermostatic or fixed)		EXHAUST HEAT	NONE
Air cleaner type	Standard	THERMOSTATICALLY CONTROLLED, REPLACEABLE PAPER ELEMENT	
	Optional		
Fuel pump	Type (elec. or mech.)	MECHANICAL	ELECTRONIC
	Location (eng., tank)	LF ENGINE	IN TANK
	Pressure range [kPa (psi)]	37.9-48.3 KPA (5.5-7 PSI)	180-350 KPA (26.5-51.5 PSI)

Fuel Tank

Capacity (refill L (gallons))		69 LITERS (18.1 GAL)	
Location (describe)		UNDERBODY BEHIND REAR AXLE	
Attachment		TWO STRAPS TO UNDERBODY	
Material & Mass [kg (weight lbs)]		STEEL	
Filler pipe	Location & material	WAGON LR QUARTER STEEL	ALL OTHER REAR STEEL
	Connection to tank	SOLDER	
Fuel line (material)		STEEL	
Fuel hose (material)		GM 6165 ELASTOMER HOSE GM 6163-M ELASTOMER HOSE	
Return line (material)		STEEL	
Vapor line (material)		STEEL	
Extended range tank	Opt., n.a.	N.A.	
	Capacity [L (gallons)]		
	Location & material		
	Attachment		
Auxiliary tank	Opt., n.a.	N.A.	
	Capacity [L (gallons)]		
	Location & material		
	Attachment		
	Selector switch or valve		
Separate fill			

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Engine Description/Carb.
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5.0L
(307 CID) V8 (LV2)

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	Mfr.	ROCHESTER	
	Choke (type)	AUTO CONTROL SPRING	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	-
		Automatic	MECHANICAL
Idle A/F mix.		COMPUTER COMMAND	
Fuel injection	Point of injection (no.)	-	
	Constant, pulse, flow	-	
	Control (electronic, mech.)	-	
	System pressure [kPa (psi)]	-	
Intake manifold heat control (exhaust or water thermostatic or fixed)		EXHAUST	
Air cleaner type	Standard	REPLACEABLE PAPER ELEMENT	
	Optional		
Fuel pump	Type (elec. or mech.)	MECHANICAL	
	Location (eng., tank)	SIDE OF ENGINE	
	Pressure range [kPa (psi)]	41.37 - 51.17 (6-7.5)	

Fuel Tank

Capacity [refill L (gallons)]		68.5 (18.1)
Location (describe)		UNDERBODY BEHIND REAR AXLE/REAR CENTER UNDERSIDE
Attachment		TWO STRAPS TO UNDERBODY
Material & Mass [kg (weight lbs)]		STEEL
Filler pipe	Location & material	WAGON LR QUARTER PANEL STEEL
	Connection to tank	SOLDER
Fuel line (material)		STEEL
Fuel hose (material)		GM 6165-M ELASTOMER
Return line (material)		STEEL
Vapor line (material)		STEEL
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		AIR INJECTION, EGR, OXIDE/REDUCT CATALYST	EGR, OXIDE/REDUCT CATALYST
	Air Injection	Pump or pulse	2-VANE POSITIVE DISPLACEMENT	
		Driven by	BELT	
		Air distribution (head, manifold, etc.)	CYL. HDS. & CAT. CONV.	NONE
		Point of entry	INT. MFLD. & CAT CONV.	
	Exhaust Gas Recircula- tion	Type (controlled flow, open orifice, other)	CONTROLLED FLOW	
		Exhaust source	INT. MFLD. CROSSOVER	EXTERNAL FEED
		Point of exhaust injection (spacer, carburetor, manifold, other)	INTAKE MANIFOLD BELOW CARBURETOR	INTAKE MANIFOLD
	Catalytic Converter	Type	DUAL BED ORC	SINGLE BED ORC
		Number of	ONE	
		Location(s)	UNDERFLOOR	
		Volume [L (in ³)]	170 CU. IN.	
		Substrate type	MONOLITH	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		POSITIVE CLOSED SYSTEM	
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM	
	Discharges (to intake manifold, other)		INT. MFLD. NORMALLY, WITH ADDITIONAL DISCHARGE IN AIR CLEANER	
	Air inlet (breather cap, other)		FILTER IN AIR CLEANER	
Evapora- tive Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANNISTER	
		Carburetor	CANNISTER	
	Vapor storage provision		CANNISTER	
Electronic system	Closed loop (yes/no)		YES	
	Open loop (yes/no)		NO	

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE W/CROSSOVER	SINGLE W/CROSSOVER DUAL BEHIND CONVERTER
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		ONE RESERSE FLOW	1 MUFFLER REVERSE FLOW DUAL INLET/DUAL OUTLET
Resonator no. & type		NONE	NONE
Exhaust pipe	Branch o.d., wall thickness CROSSOVER	50.8/.86	57.15 - .86
	Main o.d., wall thickness	57.15 - 1.3	63.5 - 1.02
	Material & Mass [kg (weight lbs)]	STAINLESS STEEL	
Inter- mediate pipe	o.d. & wall thickness	50.8 - 1.09	DUAL PIPES/57.15 - 1.39
	Material & Mass [kg (weight lbs)]	ALUMINIZED STEEL	
Tail pipe	o.d. & wall thickness	50.8 - 1.09	57.15 - 1.09
	Material & Mass [kg (weight lbs)]	ALUMINIZED STEEL	

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Engine Description/Carb.
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5.0L
(307 CID) V8 (LV2)

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		AIR, EGR, CAT. CONV, MICRO PROCESSOR
	Air Injection	Pump or pulse	VAIN
		Driven by	V-BELT
		Air distribution (head, manifold, etc.)	CYL HEAD & CAT CONV.
		Point of entry	EXH. PORT & CAT. CONV.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	VARIABLE ORIFICE
		Exhaust source	CROSSOVER IN INTAKE MANIFOLD
		Point of exhaust injection (spacer, carburetor, manifold, other)	INTAKE MANIFOLD
	Catalytic Converter	Type	DUAL BED
		Number of	ONE
		Location(s)	UNDERFLOOR
		Volume [L (in ³)]	4.1 (250)
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		POSITIVE CRANKCASE VENTILATION (INDUCTION)
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM
	Discharges (to intake manifold, other)		INTAKE CROSSOVER
	Air inlet (breather cap, other)		VENT FILTER IN LH VALVE COVER
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANISTER
		Carburetor	CANISTER
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes/no)		YES
	Open loop (yes/no)		NO

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE WITH CROSSOVER
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		RESERVE FLOW
Resonator no. & type		ONE, STRAIGHT THRU
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	57.15 x 1.09 (1.4 x .043)
	Material & Mass [kg (weight lbs)]	
Inter- mediate pipe	o.d. & wall thickness	50.8 x 1.09 (2.0 x .043)
	Material & Mass [kg (weight lbs)]	
Tail pipe	o.d. & wall thickness	50.8 x 1.09 (2.0 x .043)
	Material & Mass [kg (weight lbs)]	STEEL SAE 1009 WELDED TUBING-ALUM COATED

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3.8L (231 CID) V-6 (LD5)	3.8L SFI TURBO (231 CID) V-6 (LC2)
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Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	N.A.
Manual 4-speed (std., opt., n.a.) (mfr.)	
Manual 5-speed (std., opt., n.a.) (mfr.)	
Manual overdrive (std., opt., n.a.) (mfr.)	
Automatic (std., opt., n.a.) (mfr.)	STANDARD
Automatic overdrive (std., opt., n.a.) (mfr.)	N.A.
	STANDARD

Manual Transmission/Transaxle

Number of forward speeds		N.A.	
Transmission ratios	In first		
	In second		
	In third		
	In fourth		
	In fifth		
	In overdrive		
	In reverse		
Synchronous meshing (specify gears)			
Shift lever location			
Lubricant	Capacity [L (pt.)]		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		N.A.
Assist (yes, no percent)		
Type pressure plate springs		
Total spring load [N (lb.)]		
No. of clutch driven discs		
Clutch facing	Material	
	Manufacturer	
	Part number	
	Rivets/plate	
	Rivet size	
	Outside & inside dia.	
	Total eff. area [cm ² (in. ²)]	
	Thickness	
	Engagement cushion method	
Release bearing	Type & method of lubrication	
Torsional damping	Method: springs, friction material	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED
Model Year 1986 Issued 10-31-85 Revised (●) _____

**Engine Description/Carb.
Engine Code**

5.0L
(307 CID) V8 (LV2)

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	
Manual 4-speed (std., opt., n.a.) (mfr.)	
Manual 5-speed (std., opt., n.a.) (mfr.)	
Manual overdrive (std., opt., n.a.) (mfr.)	
Automatic (std., opt., n.a.) (mfr.)	STD.
Automatic overdrive (std., opt., n.a.) (mfr.)	OPT.

Manual Transmission/Transaxle

Number of forward speeds		
Transmis- sion ratios	In first	
	In second	
	In third	
	In fourth	
	In fifth	
	In overdrive	
	In reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Lubricant	Capacity [L (pt.)]	
	Type recommended	
	SAE vis- cosity number	Summer
		Winter
		Extreme cold

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		
Assist (yes, no percent)		
Type pressure plate springs		
Total spring load [N (lb.)]		
No. of clutch driven discs		
Clutch facing	Material	
	Manufacturer	
	Part number	
	Rivets/plate	
	Rivet size	
	Outside & inside dia.	
	Total eff. area [cm ² (in. ²)]	
	Thickness	
	Engagement cushion method	
Release bearing	Type & method of lubrication	
Torsional damping	Method: springs, friction material	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
Model Year 1986 Issued 10-31-85 Revised (●) _____

Engine Description/Carb.
Engine Code

3.8L (231 CID) V-6 (LD5)	3.8L SFI TURBO (231 CID) V-6 (LC2)
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Automatic Transmission/Transaxle

Trade name		THM200C	THM200-4R
Type and special features (describe)		3-SPEED AUTO. W/TORQUE CONV. CLUTCH	4-SPEED AUTO. W/TORQUE CONV. CLUTCH
Selector	Location	STEERING COLUMN OR CONSOLE	
	Ltr./No. designation	P R N D L2 L1	P R N OD D21
Gear ratios	R	2.07	2.07
	D	1.00	0.67
	L ₃	---	1.00
	L ₂	1.57	1.57
	L ₁	2.74	2.74
Max. upshift speed - drive range [km/h (mph)]		1-2, 75 (46) 2-3, 132 (81)	1-2, 65 (39) 2-3, 112 (68)
Max. kickdown speed - drive range [km/h (mph)]		3-2, 109 (68) 128 (78)	3-2, 105 (64)
Min. overdrive speed [km/h (mph)]		N.A.	70 (42)
Torque converter	Number of elements	3	3
	Max. ratio at stall	2.2	1.8
	Type of cooling (air, liquid)	LIQUID	LIQUID
	Nominal diameter	298MM	
Lubricant	Capacity [refill L (pt.)]	4.0 (8.3)	4.8 (10)
	Type Recommended	DEXRON R II	
Oil cooler (std., opt., NA, internal, external, air, liquid)		STANDARD - LIQUID - INTERNAL	

Axle or Front Wheel Drive Unit

Type (front, rear)		REAR	
Description		SALISBURY - SEMI-FLOATING POSITIVE TRACTION - CONE TYPE (OPT.)	
Limited slip differential (type)		38.1 (1.50)	
Drive pinion offset		HYPOID	
Drive pinion (type)		2	
No. of differential pinions		SHIM	
Pinion / differential adjustment (shim, other)		COLLAPSIBLE SPACER	
Pinion / differential bearing adjustment (shim, other)		ROLLER	
Driving wheel bearing (type)		1.66 (3.5)	
Lubricant	Capacity [L (pt.)]	SAE GL-5	
	Type recommended	80W-90	
	SAE viscosity number	Summer	80W-90
		Winter	
		Extreme cold	80W-90

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

Axle ratio (or overall top gear ratio)		2.41	3.08	3.23	3.42
No. of teeth	Pinion	17	13	13	12
	Ring gear or gear	41	40	42	41
Ring gear o.d.		190.5			216
Transaxle	Transfer gear ratio	---			---
	Final drive ratio	---			---

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
Model Year 1986 Issued 10-31-85 Revised (●) _____

Engine Description/Carb.
Engine Code

ALL	3.8 TURBO LC2
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Propeller Shaft – Rear Wheel Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		ST. TUBE	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive		
	Automatic transmission		63.5MM x 1331.5 x 1.65 (2.5 x 52.4 x .065) 69.9x1306.4x1.65 (2.75x51.43x.065)
Inter-mediate bearing	Type (plain, anti-friction)		NONE
	Lubrication (fitting, prepack)		
Slip yoke	Type		MALE SLIP YOKE AT TRANS. WHERE SLIP IS TAKEN
	Number of teeth		27 O.D. FIT
	Spline o.d.		29.87-29.84 (1.176-1.175)
Universal joints	Make and mfg. no.	Front	CHEVROLET PARMA
		Rear	CHEVROLET PARMA
	Number used		2
	Type (ball and trunnion, cross)		CROSS
	Rear attach (u-bolt, clamp, etc.)		BOLT AND STRAP
	Bearing	Type (plain, anti-friction)	NEEDLE (ANTI-FRICTION TYPE)
Lubrication (fitting, prepack)		PREPACK	
Drive taken through (torque tube, arms or springs)		ARMS	
Torque taken through (torque tube, arms or springs)		ARMS	

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE

Model Year 1986 Issued 10-31-85 Revised (●) _____

**Body Type And/Or
Engine Displacement**

COUPE	T TYPE
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Suspension – General

Car leveling	Std./opt./n.a.	N.A.
	Type (air, hyd., etc.)	
	Manual/auto. controlled	
Provision for brake dip control		FRONT SUSPENSION GEOMETRY
Provision for accl. squat control		REAR SUSPENSION GEOMETRY
Provisions for car jacking		NONE
Shock absorber (front & rear)	Type	DIRECT, DOUBLE ACTING, HYDRAULIC
	Make	DELCO PRODUCTS
	Piston diameter	25MM
	Rod diameter	

Suspension – Front

Type and description		INDEPENDENT SLA WITH COIL SPRINGS	
Drive and torque taken through			
Travel	Full jounce	78MM	
	Full rebound	74MM	
Spring	Type (coil, leaf, other) & material	COIL	
	Insulators (type & material)	STEEL	
	Size (coil design height & i.d., bar length x dia.)	DES. HT.: 260MM BAR LENGTH: 3050MM	I.D.: 103MM BAR DIA.: 16.2MM
	Spring rate [N/mm (lb./in.)]	58 (330)	77 (438)
	Rate at wheel [N/mm (lb./in.)]	16.7 (95)	22.2 (126)
Stabilizer	Type (link, linkless, frameless)	LINK	
	Material & bar diameter	STEEL - 25MM	32MM

Suspension – Rear

Type and description		SALISBURY, 4 LINK TYPE WITH COIL SPRINGS	
Drive and torque taken through		CONTROL ARMS	
Travel	Full jounce	102MM	
	Full rebound	100MM	
Spring	Type (coil, leaf, other) & material	COIL - STEEL	
	Size (length x width, coil design height & i.d., bar length & dia.)	DES. HT.: 254MM BAR LENGTH: 2430MM	I.D.: 140MM BAR DIA.: 13MM
	Spring rate [N/mm (lb./in.)]	20.1 (115)	21.9 (125)
	Rate at wheel [N/mm (lb./in.)]	22.6 (128)	24.6 (140)
	Insulators (type & material)	RUBBER UPPER INSULTAOR	
	If leaf	No. of leaves	N.A.
		Shackle (comp. or tens.)	N.A.
Stabilizer	Type (link, linkless, frameless)	-	LINKLESS
	Material & bar diameter	-	STEEL 19MM
Track bar (type)		N.A.	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE

Model Year 1986

Issued 10-31-85

Revised (●) _____

Body Type And/Or
Engine Displacement

G-LT	G-HVY	G-TURBO
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Brakes - Service

Description			
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)		METERING AND PROPORTIONING
Power brake (std., opt., n.a.)			STANDARD
Booster type (remote, integral, vac., hyd., etc.)			VAC. (EXC 3.8L TURBO) HYD. (3.8L TURBO)
Vacuum source (inline, pump, etc.)			INLINE (WHERE APPLICABLE)
Vacuum reservoir (volume in. ³)			205 245 N.A.
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			N.A.
Anti-skid device type (std., opt., n.a.) (F/R)			N.A.
Effective area [cm ² (in. ²)]*			624.21 (96.75)
Gross lining area [cm ² (in. ²)]**(F/R)			671.16 (104.02)
Swept area [cm ² (in. ²)]*** (F/R)			2017.41 (312.68)
Rotor	Outerworking diameter	F/R	266.7 (10.50)
	Inner working diameter	F/R	171.5 (6.75)
	Thickness	F/R	26.3 (1.03)
	Material & type (vented/solid)	F/R	CAST IRON VENTED
Drum	Diameter & width	F/R	241.3 (9.5)
	Type and material	F/R	COMPOSITE CAST IRON/COMP ALUM.
Wheel cylinder bore			63.5 (2.5 FRT/19.0 (.75) REAR
Master cylinder	Bore/stroke	F/R	(a)
Pedal arc ratio			3.5 W/VAC BOOSTER/4.9 W/HYD BOOSTER
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			8550 (1240) 11584 (1680) 11680 (1694)
Lining clearance			F/R 0/.381(.015)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	RIVETED
		Rivet size	5.33 x 9.63 (.21 x .38)
		Manufacturer	BENDIX
		Lining code*****	333EE
		Material	SEMI-METALLIC 7161A
		**** Primary or out-board	125 x 46 x 7.84 (4.92 x 1.81 x .308)
		Size Secondary or in-board	125 x 46 x 8.67 (4.92 x 1.81 x .341)
		Shoe thickness (no lining)	5 (.20) INBOARD 3 (.12) OUTBOARD
	Rear wheel	Bonded or riveted (rivets/seg.)	RIVETED
		Manufacturer	INLAND
		Lining Code*****	224FF/234FE
		Material	ORGANIC 4035/4050
		**** Primary or out-board	190.75 x 50.8 x 4.83 (7.50 x 2 x .19)
		Size Secondary or in-board	251.71 x 50.8 x 6.87 (9.90 x 2 x .27)
		Shoe thickness (no lining)	2 (.08)

*Excludes rivet holes, grooves, chamfers, etc.

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

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

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

*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

(a) 24x36 (.94x1.42) w/VAC. BOOSTER 31.8(1.25) POWER MASTER HYD. BOOSTER
37.85 (1.49 w/VAC. BOOSTER 30.91(1.22) HYD. BOOSTER

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
Model Year 1986 Issued 10-31-85 Revised (●) _____

**Body Type And/Or
Engine Displacement**

COUPE	T TYPE
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Tires And Wheels (Standard)

Tires	Size (load range, ply)		P195/75R14 WS	P215/65R15 B/W
	Type (bias, radial, etc.)		STEEL BELTED RADIAL	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	240 (35)	
		Rear [kPa (psi)]	240 (35)	
	Rev./mile—at 70 km/h (45 mph)		817	801
Wheels	Type & material		STAMPED STEEL	CAST ALUM.
	Rim (size & flange type)		14 x 6JJ	15 x 7JJ
	Wheel offset		0	4MM MINUS
	Attachment	Type (bolt or stud)	STUD	
		Circle diameter	4.75 INCHES	
		Number & size	5 - M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		15 x 4T WHEEL T125/70D15 COMPACT SPARE	16 x 4T WHEEL T155/80D16
	Storage position & location (describe)		VERTICAL IN WELL RIGHT SIDE OF LOAD COMPARTMENT	

Tires And Wheels (Optional)

Size (load range, ply)		P185/75R14 BW-OIL OPT V-6 SED/CPE	P215/65R15 W/L
Type (bias, radial, etc.)		STEEL BELTED RADIAL	
Wheel (type & material)			
Rim (size, flange type and offset)			
Size (load range, ply)		P205/70R14 STD. LOAD	
Type (bias, radial, etc.)		STEEL BELTED RADIAL	
Wheel (type & material)		STAMPED STEEL - STYLED CHROME	
Rim (size, flange type and offset)		14 x 6JJ, 0 OFFSET	
Size (load range, ply)			
Type (bias, radial, etc.)			
Wheel (type & material)		STYLED CAST ALUMINUM	(GD NATIONAL) STYLED CHROME
Rim (size, flange type and offset)		14 x 6JJ, 0 OFFSET	15 x 7 3MM MINUS
Size (load range, ply)			
Type (bias, radial, etc.)			
Wheel (type & material)		STAMPED STEEL-PAINTED	
Rim (size, flange type and offset)		14 x 6 JJ, 0 OFFSET	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		T145/80D16 COMPACT SPARE, 16 x 4T WHEEL USED WITH LIMITED SLIP AXLE	

Brakes - Parking

Type of control		FOOT OPERATED WITH HAND RELEASE
Location of control		LEFT SIDE OF COWL
Operates on		REAR BRAKES
if separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Steering

Manual (std., opt., n.a.)				N.A.	
Power (std., opt., n.a.)				STD.	
Adjustable steering wheel (tilt, swing, other)	Type and description			NON TILT - STD.	
	(Std., opt., n.a.)			TILT - OPT.	
Wheel diameter (W9) SAE J1100	Manual				
	Power				
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		41.5 FT.LT.-42.2 FT.RT.	
		Curb to curb (l. & r.)		38.3 FT.LT.-38.9 FT.RT.	
	Inside rear	Wall to wall (l. & r.)		22.3 FT.LT.-22.9 FT.RT.	
		Curb to curb (l. & r.)		22.7 FT.LT.-23.4 FT.RT.	
Scrub Radius*				SPECIFIC FOR ALL TIRE AND WHEEL PACKAGES	
Manual	Gear	Type		N.A.	
		Make		N.A.	
		Ratios	Gear	N.A.	
			Overall	N.A.	
	No. wheel turns (stop to stop)			N.A.	
Power	Type (coaxial, linkage, etc.)			INLINE ROTARY VALVE	
	Make			SSG	
	Gear	Type		RECIRCULATING BALL NUT	
		Ratios	Gear	15.3:1 (12.7:1 OPT.)	
			Overall	16.4:1 (13.97:1 OPT.)	
	Pump (drive)			BELT	
	No. wheel turns (stop to stop)			3.64	
Linkage	Type			PARALLELOGRAM	
	Location (front or rear of wheels, other)			FRONT	
	Tie rods (one or two)			2	
Steering axis	Inclination at camber (deg.)			-	
	Bearings (type)	Upper		BALL JOINT	
		Lower		BALL JOINT	
		Thrust		-	
Steering spindle & joint type				-	
Wheel spindle	Diameter	Inner bearing		31.7	
		Outer bearing		21.0471-21.4274	
	Thread (size)			3/4-20 UNEF-3A MOD.	
	Bearing (type)			TAPER ROLLER	

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
Model Year 1986 Issued 10-31-85 Revised (●) _____

**Body Type And/Or
Engine Displacement**

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+2 TO +4
		Camber (deg.)	-.3 TO +1.3
		Toe-in [outside track-mm (in.)]	+1/16" TO +1/4"
	Service reset*	Caster	+3.0 ± .5
		Camber	+.5 ± .5
		Toe-in	+1/8" ± 1/16"
	Periodic M.V. inspection	Caster	+1 TO +5
		Camber	+1 TO +5
		Toe-in	-3/16" TO +9/16"
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	NO ADJUSTMENT
		Toe-in [outside track-mm (in.)]	"
	Service reset*	Camber	"
		Toe-in	"
	Periodic M.V. inspection	Camber	"
		Toe-in	"

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

Electrical – Instruments and Equipment

Speedometer	Type	MECHANICAL
	Trip odometer (std., opt., n.a.)	OPT
EGR maintenance indicator		
Charge indicator	Type	GENERATOR OUTPUT VOLTAGE
	Warning device	TELLTALE LIGHT (GAGE-OPT)
Temperature indicator	Type	OVERTEMP. SWITCH
	Warning device	TELLTALE LIGHT (GAGE-OPT)
Oil pressure indicator	Type	PRESSURE SWITCH
	Warning device	TELLTALE LIGHT
Fuel indicator	Type	ELECTRIC
	Warning device	NONE
Windshield wiper	Type (standard)	ELECTRIC TWO SPEED WITH MIST WIPE
	Type (optional)	DELAY FEATURE
	Blade length	45.7 (18)
	Swept area [cm ² (in. ²)]	6001.4
Windshield washer	Type (standard)	PROGRAMMED FLUIDIC
	Type (optional)	NONE
	Fluid level indicator	N.A.
Horn	Type	AIR TONE
	Number used	ONE 'F' AND ONE 'A' NOTE
Other		

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
Model Year 1986 Issued 10-31-85 Revised (●)

Engine Description/Carb.
Engine Code

3.8L (231 CID)V-6(LD5)	3.8L SFI TURBO (231 CID)(LC2)
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Electrical – Supply System

Battery	Make	DELCO REMY FREEDOM	
	Model, std., (opt.)	1981104 STD (1981296 OPT)	1981104 STD(1981296 OPT)
	Voltage	12.6 VOLTS	
	Amps at 0°F cold crank	525 STD (630 OPT)	525 STD (630 OPT)
	Minutes-reserve capacity	90	90
	Amp/hrs. - 20 hr. rate	N.A.	
	Location	ENGINE COMPARTMENT - RIGHT FRONT CORNER	
Generator or alternator	Type and rating	12 SI 56 AMP	CS 144/120 AMP
	Ratio (alt. crank/rev.)	2.74	2.74
	Optional (type & rating)	85 AMP	N.A.
Regulator	Type	SOLID STATE INTEGRAL WITH GENERATOR	

Electrical – Starting System

Start, motor	Current drain at 0°F	225A
Motor drive	Engagement type	SOLENOID ACTUATED PINION WITH OVERRUNNING CLUTCH
	Pinion engages from (front, rear)	BACK TO FRONT

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)		N.A.	C3I
	Other (specify)		HEI	
Coil	Make		DELCO REMY	MAGNOVOX
	Model		INTEGRAL TO CAP	INTEGRAL WITH ELECTRONICS
	Current	Engine stopped – A	0	
		Engine idling – A	5.5	
Spark plug	Make		AC	AC
	Model		R45TSX	R44TS
	Thread (mm)		M14 x 1.25	M14 x 1.25
	Tightening torque [N•m (lb. ft)]		20-34Nm (15-25)	9-20NM 7-15 #FT
	Gap		1.52 (.060)	1.14 (.045)
	Number per cylinder			1
Distributor	Make		DELCO REMY	NA
	Model		1103470	NA

Electrical – Suppression

Locations & type	
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MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Engine Description/Carb.
 Engine Code

5.0L
 (307 CID) V8 (LV2)

Electrical – Supply System

Battery	Make	DELCO REMY FREEDOM
	Model, std., (opt.)	1981610 STD (1981104 OPT)
	Voltage	12.6V
	Amps at 0°F cold crank	430 STD/525 OPT
	Minutes-reserve capacity	90
	Amp/hrs. - 20 hr. rate	NA
	Location	
Generator or alternator	Type and rating	12 SI/78 AMP
	Ratio (alt. crank/rev.)	
	Optional (type & rating)	12 SI/94 AMP
Regulator	Type	SOLID STATE INTEGRAL W/GENERATOR

Electrical – Starting System

Start, motor	Current drain at 0°F	
Motor drive	Engagement type	
	Pinion engages from (front, rear)	

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	
	Other (specify)	
Coil	Make	
	Model	
	Current	Engine stopped – A
		Engine idling – A
Spark plug	Make	
	Model	
	Thread (mm)	
	Tightening torque [N•m (lb, ft)]	
	Gap	
	Number per cylinder	
Distributor	Make	
	Model	

Electrical – Suppression

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

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Body Type

COUPE

Body

Structure

Bumper system
front - rear

Anti-corrosion treatment

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		ACRYLIC LACQUER
Hood	Hinge location (front, rear)	REAR
	Type (counterbalance, prop)	COUNTERBALANCE (GAS SPRING)
	Release control (internal, external)	INTERNAL
Trunk lid	Type (counterbalance, other)	TORSION RODS
	Internal release control (elec., mech., n.a.)	ELECTRIC SOLENOID (OPT.)
Hatch-back lid	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
Vent window control (crank, friction, pivot, power)	Front	
	Rear	C/O 3-PASS. C/O 3-PASS. NEW 2-PASS.
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	FOAM/WIRE
	Rear	FOAM/WIRE - NON-FOLDING 3-PASS.
	3rd seat	
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	FOAM/WIRE
	Rear	FOAM/WIRE - NON-FOLDING
	3rd seat	

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Body Type

ALL

Restraint System

Active restraint system	Standard/optional	STANDARD
	Type and description	LAP AND SHOULDER BELT
	Location	
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)	SEPARATE FRAME
---	----------------

Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm ² (in. ²)]	S1	33.0°
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	58.5°
Backlight glass exposed surface area [cm ² (in. ²)]	S3	23.0°
Total glass exposed surface area [cm ² (in. ²)]	S4	1361.8 (8786)
Windshield glass (type)		1346.3 (8686)
Side glass (type)		676.3 (4363)
Backlight glass (type)		3384.4 (21835)

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

Car Line REGAL, REGAL LIMITED, T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Body Type

REGAL

LIMITED

T TYPE

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

Air conditioning (manual, auto. temp control)		A/C - STD ON - T TYPE
Clock (digital, analog)		ELECTRONIC TOUCH CLIMATE CONTROL - OPT.
Compass / thermometer		--
Console (floor, overhead)		OPT.- FLOOR
Defroster, elec. backlight		OPT.
Electronic	Diagnostic warning (integrated, individual)	STD.
	Instrument cluster (list instruments)	ELECTRONIC CLUSTER - OPT.
	Keyless entry	--
	Tripminder (avg. spd., fuel)	--
	Voice alert (list items)	--
	Other	--
Fuel door lock (remote, key, electric)		--
Lamps	Auto head on / off delay, dimming	TWILIGHT SENTINEL - OPT.
	Cornering	OPT. - N.A. ON T TYPE
	Courtesy (map, reading)	OPT.
	Door lock, ignition	--
	Engine compartment	STD.
	Fog	--
	Glove compartment	STD.
	Trunk	STD.
	Other	-
Mirrors		OPT.
	Day/night (auto. man.)	MAN.
	L.H. (remote, power, heated)	REMOTE - OPT.
	R. H. (convex, remote, power, heated)	REMOTE - OPT.
Power equipment	Visor vanity (RH / LH, illuminated)	OPT.
	Parking brake-auto release (warning light)	STD.
	Door locks / deck lid - specify	POWER - OPT.
	Seat (2-4-6 way) heated (driver, pass, other)	6 WAY POWER - OPT.
	lumbar, hip, thigh support (power, manual)	RECLINING PASS - OPT.
	reclining (driver, pass) memory (1-2 preset, recline)	
	Side windows	
Radio systems	Vent windows	--
	Rear window	
	Antenna (location, whip, w/shield, power)	FIXED MAST
	AM, FM, stereo, tape, CB	AM - STD
Speaker (number, location) Premium sound		
Roof open air/fixd (flip-up, sliding, "T")		ELECTRIC SLIDING OR HATCH - OPT.
Speed control device		RESUME CRUISE - OPT.
Speed warning device (light, buzzer,etc.)		--
Tachometer (rpm)		STD. - T TYPE
Theft protection-type		STARTER INTERRUPT - OPT.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary) Car and Body Dimensions

See Key Sheets for definitions

Car Line REGAL, REGAL LIMITED, REGAL T TYPE

Model Year 1986 Issued 10-31-85 Revised (●) _____

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	
Width		COUPE
Tread (front)	W101	1486 (58.5)
Trear (rear)	W102	1466 (57.7)
Vehicle width	W103	1818 (71.6)
Body width at Sg RP (front)	W117	1790 (70.5)
Vehicle width (front doors open)	W120	3994 (157.2)
Vehicle width (rear doors open)	W121	
Front fender overall width	W106	
Rear fender overall width	W107	
Tumble-home (deg.)	W122	

Length

Wheelbase	L101	2745 (108.1)
Vehicle length	L103	5094 (200.6)
Overhang (front)	L104	1077 (42.4)
Overhang (rear)	L105	1272 (50.1)
Upper structure length	L123	2305 (90.7)
Rear wheel C-L "X" coordinate	L127	
Cowl point "X" coordinate	L125	158 (6.2)
Front end length at centerline	L126	
Rear end length at centerline	L129	

Height **

Passenger distribution (front/rear)	PD1,2,3	**
Trunk/cargo load		**
Vehicle height	H101	1387.2 (54.6)
Cowl point to ground	H114	982.8 (38.7)
Deck point to ground	H138	999.1 (39.3)
Rocker panel-front to ground	H112	230.2 (9.1)
Bottom of door closed-front to grd.	H133	278.8 (11.0)
Rocker panel-rear to ground	H111	232.3 (9.1)
Bottom of door closed-rear to grd.	H135	
Windshield slope angle	H122	
Backlight slope angle	H121	

Ground Clearance **

Front bumper to ground	H102	296.0 (11.7)
Rear bumper to ground	H104	331.8 (13.1)
Bumper to ground [front at curb mass (wt.)]	H103	317.0 (12.5)
Bumper to ground [rear at curb mass (wt.)]	H105	348.1 (13.7)
Angle of approach (degrees)	H106	15.8°
Angle of departure (degrees)	H107	16.5°
Ramp breakover angle (degrees)	H147	15.3°
Axle differential to ground (front / rear)	H153	-
Min. running ground clearance	H156	145.1 (5.7)
Location of min. run. grd. clear.		

****All Vehicle Height And Ground Clearances Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.**

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

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

See Key Sheets for definitions

Car Line REGAL, REGAL LIMITED, REGAL T TYPE

Model Year 1986

Issued 10-31-85

Revised (●) _____

Body Type

SAE Ref. No.	COUPE
---------------------	-------

Front Compartment

Sg RP front, "X" coordinate	L31	1088 (42.8)
Effective head room	H61	962 (37.9)
Max. eff. leg room (accelerator)	L34	1086 (42.8)
SgRP to heel point	H30	228 (9.0)
SgRP to heel point	L53	
Back angle	L40	26.5°
Hip angle	L42	
Knee angle	L44	
Foot angle	L46	
Design H-point front travel	L17	172 (6.8)
Normal driving & riding seat track trvl.	L23	1445 (56.9)
Shoulder room	W3	1313 (51.7)
Hip room	W5	1287.3 (50.7)
** Upper body opening to ground	H50	
Steering wheel maximum diameter	W9	19.5°
Steering wheel angle	H18	
Accel. heel pt. to steer. whl. cntr	L11	
Accel. heel pt. to steer. whl. cntr	H17	
Steering wheel to C / L of thigh	H13	
Steering wheel torso clearance	L7	
Headlining to roof panel (front)	H37	
Undepressed floor covering thickness	H67	

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) 21 mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.

Rear Compartment

Sg RP Point couple distance	L50	817 (32.2)
Effective head room	H63	967 (38.1)
Min. effective leg room	L51	924 (36.4)
Sg RP (second to heel)	H31	262 (10.3)
Knee clearance	L48	53 (02.1)
Compartment room	L3	682 (26.9)
Shoulder room	W4	1425 (56.1)
Hip room	W6	1394 (54.9)
** Upper body opening to ground	H51	1282.8 (50.5)
Back angle	L41	
Hip angle	L43	
Knee angle	L45	
Foot angle	L47	
Headlining to roof panel (second)	H38	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	458 (16.2)
** Liftover height	H195	790.8 (31.1)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		MID SIZE
Interior volume index (cu. ft.)		114.5
Trunk/cargo index (cu. ft.)		16.170

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

See Key Sheets for definitions

Body Type

SAE
Ref.
No.

Station Wagon – Third Seat

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

Station Wagon – Cargo Space

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	
Cargo volume, index-rear of 2-seat	V10	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index [m ³ (ft. ³)]	V3	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lip to ground, front	
Wheel lip to ground, rear	
Frontal area [m ² (ft. ²)]	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10-31-85 Revised (●) _____

Body Type

COUPE

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - FRONT, MEASURED HORIZONTALLY FROM BASE GRID LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF FRONT SEAT ADJUSTER MOUNTING BOLT.
		Y - FIDUCIAL MARK TO CENTERLINE OF CAR - FRONT, WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO THE FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
		Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - FRONT, MEASURED VERTICALLY FROM BASE OF GRID LINE TO FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
Rear		X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - REAR, MEASURED HORIZONTALLY FROM THE BASE GRID LINE TO REAR FIDUCIAL MARK LOCATED ON THE RAIL (COMPARTMENT PAN - LONGITUDINAL).
		Y - FIDUCIAL MARK TO CENTERLINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO FIDUCIAL MARK LOCATED ON THE RAIL (COMPARTMENT PAN - LONGITUDINAL).
		Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - REAR, MEASURED VERTICALLY FROM BASE GRID LINE TO REAR FIDUCIAL MARK LOCATED ON THE RAIL (COMPARTMENT PAN - LONGITUDINAL).
Fiducial Mark Number		
Front	W21	564 (22.2)
	L54	2761 (108.7)
	H81	490 (19.3)
	H161	346 (13.6)
	** H163	326 (12.8)
Rear	W22	534 (21.0)
	L55	5338 (210.2)
	H82	616 (24.3)
	H162	474 (18.7)
	** H164	455 (17.9)

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

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line REGAL, REGAL LIMITED, REGAL T TYPE
 Model Year 1986 Issued 10/31/85 Revised (●) _____

Body Type

COUPE

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	695.7 (27.4)
		Lowest	
	Taillamp (SAE - H128)	Highest**	708.0 (27.9)
		Lowest	
	Sidemarker	Front	650.1 (25.6)
		Rear	698.0 (27.5)
Distance from C.L. of car to center of bulb	Headlamp	Inside	
		Outside**	
	Taillamp	Inside	
		Outside**	
	Directional	Front	
		Rear	
Halogen headlamp (std., opt., n.a.)	Lo beam		OPT
	Hi beam		OPT
	Replaceable bulb		
	Shape		Rectangular
Headlamp other than above	Lo beam		
	Hi beam		
	Replaceable		
	Shape		
	Type		

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

METRIC (U.S. Customary)

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* Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition –

METRIC (U.S. Customary)

Model Year 1986 Issued Revised (●)

* * OPTIONAL WEIGHTS OVER 3 POUNDS

METRIC (U.S. Customary)

Model Year 1986 Issued _____ Revised (●) _____

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

* * OPTIONAL WEIGHTS OVER 3 POUNDS

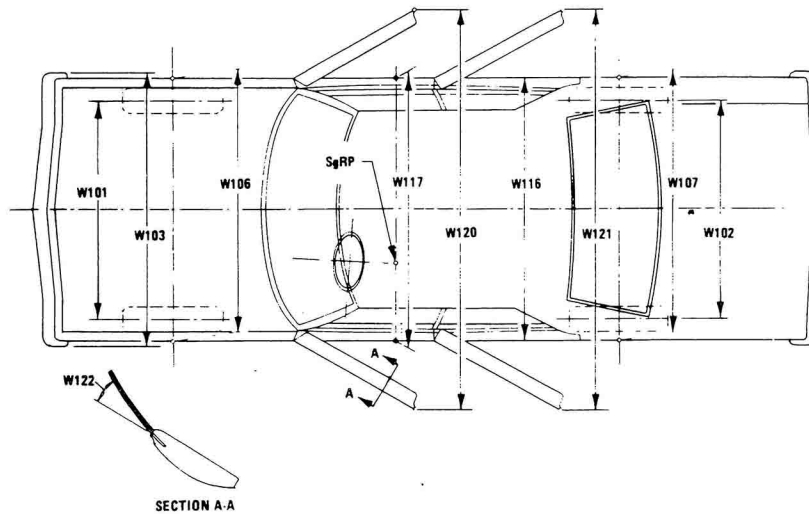
MVMA Specifications Form

Passenger Car

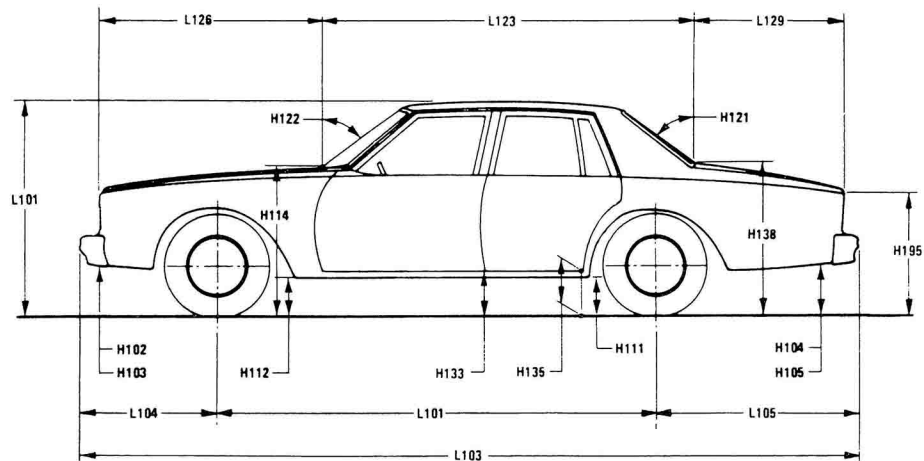
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

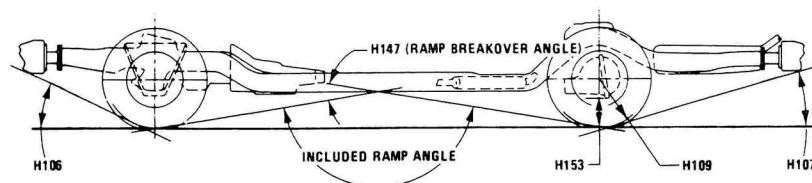
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

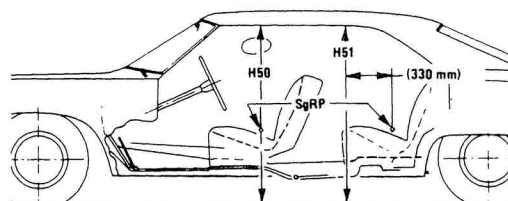
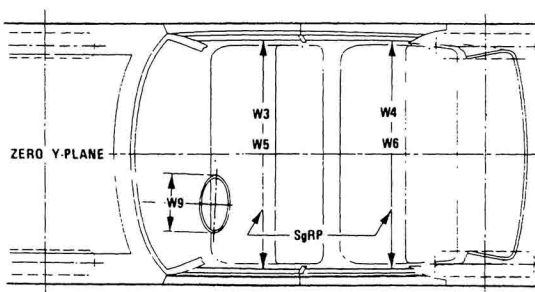
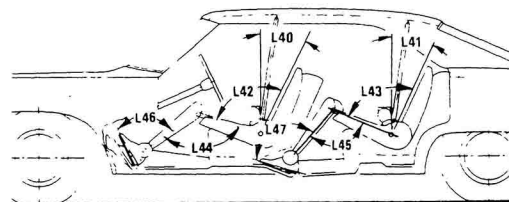
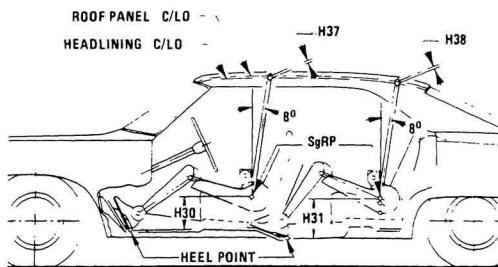
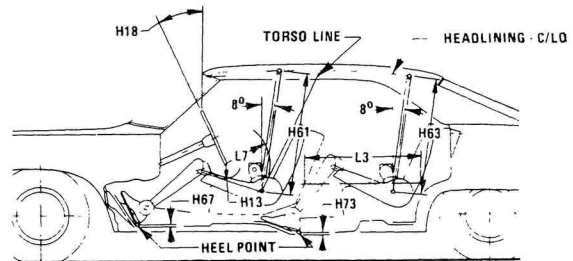
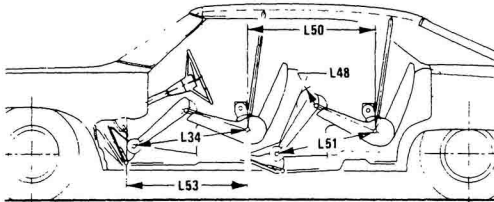


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet



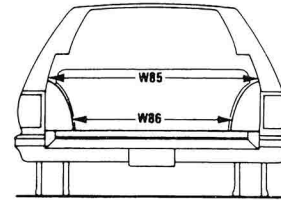
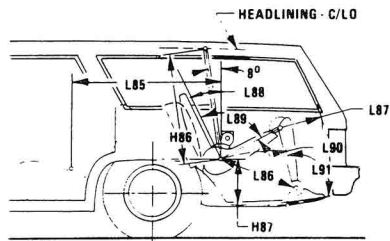
MVMA Specifications Form

Passenger Car

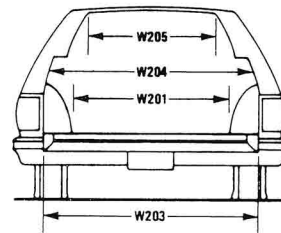
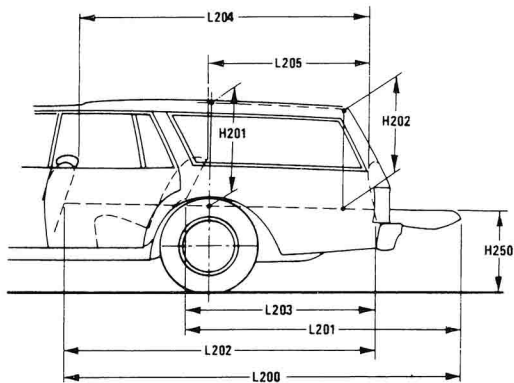
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

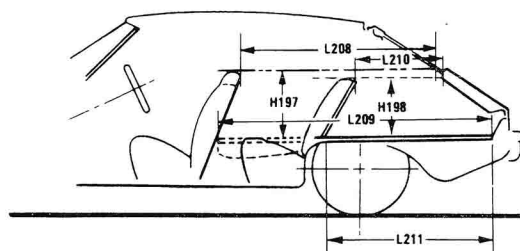
Third Seat



Cargo Space



Station Wagon



Hatchback

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, "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.
- 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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- 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

- 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.
- 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.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body 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.
- 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.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- 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 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.
- H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension 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.
- H133 BOTTOM OF DOOR CLOSED–FRONT 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.
- 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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND–CURB MASS (WT.). Measured in the same manner as H102.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- 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 arc and 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 arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP 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.

Glass Areas

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

Fiducial Mark Dimensions

Fiducial Mark – Number 1

- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.

Fiducial Mark – Number 2

- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat track positions.
- L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. 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.
- L31 SgRP–FRONT. "X" COORDINATED.

- 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.
- 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.
- L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE–FRONT. The angle measured between the 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.
- L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.
- W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.
- 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 of the SgRP–front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP–FRONT TO HEEL. The dimension measured vertically from the SgRP–front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.
- 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.).
- H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

- 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.

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Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

L41	BACK ANGLE–SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
L43	HIP ANGLE–SECOND. The angle measured between torso line and thigh centerline.
L45	KNEE ANGLE–SECOND. The angle measured between 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).
L48	KNEE CLEARANCE–SECOND. The minimum dimension measured from the knee pivot center to the back of front seatback minus 51 mm (2.0 in.).
L50	SgRP COUPLE DISTANCE–SECOND. The dimension measured horizontally from the driver SgRP–front to the SgRP–second.
L51	MINIMUM EFFECTIVE LEG ROOM–SECOND. The dimension measured along a line from the ankle pivot center to the SgRP–second plus 254mm (10.0 in.).
W4	SHOULDER ROOM–SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the “X” plane through the SgRP–second at height between 254-406 mm (10.0-16.0 in.) above the SgRP–second, excluding the door assist straps and attaching parts.
W6	HIP ROOM–SECOND. Measured in the same manner as W5.
H31	SgRP–SECOND TO HEEL. The dimension measured vertically from the SgRP–second to the two dimensional device heel point on the depressed floor covering.
H38	HEADLINING TO ROOF PANEL–SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
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.
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.).
H73	FLOOR COVERING–DEPRESSED–SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
PD2	PASSENGER DISTRIBUTION–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-J1100.
H195	LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero “Y” plane to ground.

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 interior volume index is an estimate of the size of the passenger compartment.

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 – Third Seat Dimensions

L85	SgRP COUPLE DISTANCE–THIRD. The dimension measured horizontally from the SgRP–second to the SgRP–third.
L86	EFFECTIVE LEG ROOM–THIRD. The dimension measured along a line from the ankle pivot center to the SgRP–third plus 254 mm (10.0 in.).
L87	KNEE CLEARANCE–THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.
L88	BACK ANGLE–THIRD. Measured in the same manner as L41.
L89	HIP ANGLE–THIRD. Measured in the same manner as L43.
L90	KNEE ANGLE–THIRD. Measured in the same manner as L45.
L91	FOOT ANGLE–THIRD. Measured in the same manner as L47.
W85	SHOULDER ROOM–THIRD. Measured in the same manner as W4.
W86	HIP ROOM–THIRD. Measured in the same manner as W5.
H86	EFFECTIVE HEAD ROOM–THIRD. The dimension, measured along a line 8 deg. rear from the SgRP–third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
PD3	PASSENGER DISTRIBUTION–THIRD.
SD1	SEAT FACING DIRECTION–THIRD.

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 to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero “Y” plane.
L202	CARGO LENGTH–CLOSED–FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and 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 wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

- 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.
- 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.
- V2 STATION WAGON
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY—REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY—REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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).

- 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.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT—HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR—SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- 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.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undepressed floor covering.
- V3 HATCHBACK.
Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY—REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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