

MOTOR VEHICLE Specifications

METRIC (U.S. Customary)

Passenger Car

1986

Manufacturer CHRYSLER CORPORATION	Car Line CHRYSLER LASER	
Mailing Address DETROIT, MICHIGAN 48288	Issued JUNE 15, 1985	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.

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 Line CHRYSLER LASER

Model Year 1986 Issued 6-15-85 Revised (a)

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)
FWD	SEPT. 1985			
LASER 2-DOOR HATCHBACK		CH24	4(2/2)	52(115)
LASER XE 2-DOOR HATCHBACK		CP24	4(2/2)	52(115)

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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. (Barrel, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N-m (lb. ft.)			
STD. - H	2.2L (135)	EFI	9.5	72 (97) @ 5200	165 (122) @ 3200	S	MANUAL 5-Speed	2.57
				AUTOMATIC			3.02	
OPT. - P, H	2.2L (135)	EFI Turbo	8.1	109 (146) @ 5200	230 (170) @ 3600	S	MANUAL 5-Speed	2.57
				AUTOMATIC			3.02	
STD. - P OPT. - H	2.5L (153)	EFI	9.0	75 (100) @ 4800	184 (136) @ 2800	S	MANUAL 5-Speed	2.57
				AUTOMATIC			3.02	

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Car Line **CHRYSLER LASER**

Model Year **1986**

Issued

6-15-85

Revised (•)

Engine description/Carb.
 Engine Code

2.2L (135.0 in³)
EFI, EDF

2.2L (135.0 in³)
EFI TURBO, EDG

ENGINE - GENERAL

Type & descr. (inline, V, angle, flat, location, front, mid, rear, transverse, long., sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Four-Cylinder, In-line, OHC Canted Front, Transverse	
Manufacturer	Chrysler Corp.	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block material & mass kg (lbs.)	Cast Iron	35.33 (77.9)
Cylinder block deck height	237.8 (9.36)	
Deck clearance (minimum) (above or below block)	0.00	
Cylinder head material & mass kg (lbs.)	Aluminum	9.824 (21.66)
Cylinder head volume (cm ³)	48.5 - 51.5	
Head gasket thickness (compressed)	1.73 (0.068)	
Minimum combustion chamber total volume (cm ³)	Clearance Volume: 65.31	Clearance Volume: 73.815
Cyl. no. system (front to rear)*	L. Bank	Right to left as installed in car 1, 2, 3, 4
	R. Bank	
Firing order	1, 3, 4, 2	1, 3, 4, 2
Intake manifold matl. & mass (kg(wt., lbs.))	2.199 (4.850)	
Exhaust manifold matl. & mass (kg(wt., lbs.))	5.93 (13.075)	
Recommended fuel (leaded, unleaded, diesel)	Unleaded fuel	Super or Premium Unleaded fuel
Fuel antiknock index $\frac{R + M}{2}$	87 Octane or higher	91 Octane or higher (recommended) 87 Octane or higher (acceptable)
Total dressed engine mass (wt) dry**	134.4 (295.7)	145.06 (319.8)

Engine - Pistons

Material & mass, g (weight, oz.) piston only	457 ± 2 (16.12)	Aluminum	441 ± 3 (15.5)
--	-----------------	----------	----------------

Engine - Camshaft

Location	Overhead		
Material & mass kg (weight, lbs.)	Hardenable cast iron 2.903 (6.40)		
Drive type	Chain/belt	Belt	
	Width/pitch	Width: 24.5 (0.965); Pitch: 9.52 (0.375)	

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

**Dressed engine mass (weight) includes the following: Starter, Alternator, Manifold, Water Pump, Engine Mounted Emission Controls, Drive Belts, Oil Filter, Engine Mounts Front & Right and Throttle Controls as required, Power Steering Pump

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Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6-15-85** Revised (•) _____

Engine description/Carb.
 Engine Code

2.5L (153.0 in³)
EFI, EDM

ENGINE - GENERAL

Type & descr. (inline, V, angle, flat, location, front, mid, rear, transverse, long., sohc,dohc, ohv, hemi, wedge, pre-camber, etc.	Four-Cylinder, In-line, OHV Canted Front, Transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke	104 (4.094)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block material & mass kg (lbs.)	Cast Iron	38.509 (84.6)
Cylinder block deck height	249.8	
Deck clearance (minimum) (above or below block)	0.00	
Cylinder head material & mass kg (lbs.)	Aluminum	10.278 (22.66)
Cylinder head volume (cm ³)	48.5 - 51.5	
Head gasket thickness (compressed)	1.73 (0.068)	
Minimum combustion chamber total volume (cm ³)	Clearance Volume: 73.818	
Cyl. no. system (front to rear)*	L. Bank	Right to left as installed in car 1, 2, 3, 4
	R. Bank	
Firing order	1, 3, 4, 2	
Intake manifold matl. & mass (kg(wt., lbs.))	Aluminum	2.199 (4.850)
Exhaust manifold matl. & mass (kg(wt., lbs.))	Cast Iron	5.93 (13.075)
Recommended fuel (leaded, unleaded, diesel)	Unleaded fuel	
Fuel antiknock index $\frac{R + M}{2}$	87 Octane or higher	
Total dressed engine mass (wt) dry**		

Engine - Pistons

Material & mass, g (weight, oz.) piston only	Aluminum Alloy 430 ± 2
--	---------------------------

Engine - Camshaft

Location	Overhead	
Material & mass kg (weight, lbs.)	Hardenable cast iron 2.903 (6.40)	
Drive type	Chain/belt	Belt
	Width/pitch	Width: 24.5 (0.965); Pitch: 9.52 (0.375)

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

**Dressed engine mass (weight) includes the following: Starter, Alternator, Manifold, Water Pump, Engine Mounted Emission Controls, Drive Belts, Oil Filter, Engine Mounts Front & Right and Throttle Controls as required, Power Steering Pump

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Revised (●) _____

Engine Description/Carb.
 Engine Code

2.2L (135 in.³)
EFI, EDF; EFI Turbo, EDG

2.5L (153.0 in.³)
EFI, EDM

Engine - Valve System

Hydraulic lifters (std., opt., NA)	Standard
Valves	Number intake/exhaust
	4/4
	Head O.D. intake/exhaust
	40.6 mm/35.4 mm

Engine - Connecting Rods

Material & mass {kg., (weight, lbs.)}	Forged Steel: 0.691 (1.52)
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Engine - Crankshaft

Material & mass {kg., (weight, lbs.)}	Nodular iron: 16.1 (35.6)	Nodular Iron 17.082 (37.6)
End thrust taken by bearing (no.)	Three	
Number of main bearings	Five	
Seal (material, one, two piece design, etc.)	Front	One Piece
	Rear	One Piece

Engine - Lubrication System

Normal oil pressure {kPa (psi) at eng rpm}	345 (50) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow (a)
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4)

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pres. {kPa(psi)}
Pre-chamber design	
Fuel inj. pump	Manufacturer
	Type
Fuel inj. 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	Garrett
Super charger - manufacturer	
Charge cooler	

(a) Filter change for turbocharged engines specified at every oil change

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Revised (●)

Engine Description/Carb.

Engine Code

2.2L (135.0 in ³) EFI, EDF		2.2L (135.0 in ³) EFI Turbo, EDG	
WO/AC	W/AC	WO/AC	W/AC

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure (kPa (psi))		96-124 (14-18)	
Circulation thermostat	Type (choke, bypass)	Choke, Pellet Operated	
	Starts to open at °C(°F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump RPM	-	
	Number of pumps	One	
	Drive (V-belt, other)	Multi-Groove Belt	
	Bearing type	Integral Ball Bearing	
	Impeller material	Steel	
	Housing material	Cast Aluminum	
By-pass recirculation (type (inter., ext.))		-	
Cooling System Capacity	With heater - L(qt.)	8.5 (9.0)	
	With air cond. - L(qt.)	-	
Water jackets full length of cyl. (yes, no)	Opt. equip. (specify - L(qt.))	8.5 (9.0)	
		Yes	
Water all around cylinder (yes, no)		No	
Water jackets open at head face (yes, no)			
Radiator Core	Std., A/C, HD		
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin&tube, mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row	
	Material, mass(kg(wt., lbs.))	Copper - Brass	
	Width	533.4 (21.0)	
	Height	387.6 (15.26)	
	Thickness	17.8 (0.7)	
	Fins per inch	13	15 M / 20 AUTO 23
Radiator end tank material		Nylon 66	
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	2-Blade Metal	5-Blade Metal
	Diameter & projected width	315(12.4)/33(1.3)	360 (14.2) / 46 (1.8) 356(14)/42(1.65)
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	1815	1790 1455
	Motor rating (wattage) (elec.)	65	130 160
	Motor switch (type & loc.) (elec.)	Thermistor, Water Box & A/C	
	Switch point (temp., press.) (elec.)	210° F (Low Speed); 230° F (High Speed)	
	Fan shroud (material)	Metal	

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Engine Description/Carb.

Engine Code

2.5L (153.0 in³) EFI, EDM

WO/AC

W/AC

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure [kPa (psi)]		96-124 (14-18)	
Circulation thermostat	Type (choke, bypass)	Choke, Pellet Operated	
	Starts to open at °C(°F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump RPM	-	
	Number of pumps	One	
	Drive (V-belt, other)	Multi-Groove Belt	
	Bearing type	Integral Ball Bearing	
	Impeller material	Steel	
	Housing material	Cast Aluminum	
By-pass recirculation [type (inter., ext.)]		-	
Cooling System	With heater - L(qt.)	8.5 (9.0)	
	With air cond. - L(qt.)	-	
Capacity	Opt. equip. [specify - L(qt.)]	8.5 (9.0)	
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		No	
Water jackets open at head face (yes, no)			
Radiator Core	Std., A/C, HD		
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin&tube, mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row	
	Material, mass[kg(wt., lbs.)]	Copper - Brass	
	Width	533.4 (21.0)	
	Height	387.6 (15.26)	
	Thickness	17.8 (0.7)	
	Fins per inch	13	15/MTX 20/AUTO
Radiator end tank material		Nylon 66	
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	2-Blade Metal	
	Diameter & projected width	315(12.4) / 33(1.3)	360 (14.2) / 46 (1.8)
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	1815	1885
	Motor rating (wattage) (elec.)	65	150
	Motor switch (type & loc.) (elec.)	Thermistor, Water Box & A/C	
	Switch point (temp., press.) (elec.)	210° F (Low Speed); 230° F (High Speed)	
	Fan shroud (material)	Metal	

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Model Year **1986** Issued **6-15-86** Revised (•) _____

Engine Description/Carb.
 Engine Code

2.2L (135.0 in³) EFI EDF	2.5L (153.0 in³) EFI EDM	2.2L (135.0 in³) Turbocharged, EFI EDG
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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carb., fuel inj. sys., etc.			electronic fuel injection	
Carburetor	Mfr.			
	Choke (type)			
	Idle spd. rpm (spec. neutral or drive and propane if used)	Manual	900	900
		Automatic	700	800
Idle A/F mix				
Fuel Injection	Point of injection (no.)		throttle body (1)	port injection (4)
	Constant pulse, flow		pulse	
	Control (electronic, mech.)		electronic	
	System pressure [kPa (psi)]		100 (14.5)	379.6 (55.1) ± manifold vacuum
Intake manifold heat control (exhaust or water thermostatic or fixed)			water	none
Air cleaner type	Standard		oil -wetted paper element	
	optional		--	
Fuel pump	Type (elec. or mech.)		electric	
	Location (eng., tank)		in fuel tank	in fuel tank
	Pressure range [kPa (psi)]		152 - 655 (22 - 95) @ 12V & 0 flow	503-875 (73-122) @ 120 pph & 12V

Fuel Tank

Capacity [refill L (gallons)]		53 (14.0)
Location (describe)		forward of axle
Attachment		terne plated strap to floor pan
Material & mass [kg (weight lbs.)]		terne plated steel
Filler pipe	Location & material	external, right rear quarter panel; lead dipped steel
	Connection to tank	rubber grommet
Fuel line (material)		duplex-coated steel
Fuel hose (material)		fuel resistant rubber
Return line (material)		duplex-coated steel
Vapor line (material)		terne plated 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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Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6 - 15 - 85** Revised (●)

Engine Description/Carb.
 Engine Code

2.2L (135.0 in ³) EFI EDF	2.5L (153.0 in ³) EFI EDM	2.2L (135.0 in ³) Turbo EFI EDG
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Vehicle Emission Control

	Type (air injection, eng. modifications)		(a)	(b)
Exhaust Emission Control	Air Injection	Pump or pulse	pulse	none
		Driven by	exhaust pressure	--
		Air distribution (head, manifold, etc.)	single point	--
		Point of entry	exhaust manifold collector	--
	Exhaust Gas Recirc- ulation	Type (controlled flow, open orifice, other)	controlled flow	
		Exhaust source	manifold collector	
		Point of exhaust inj., (spacer, carb., manif., etc)	intake manifold	
	Catalytic Converter	Type	3-way + oxidation	3-way
		Number of	one	one
		Location(s)	below exhaust manifold	under floor
		Volume [L(in ³)]	1.23 (75) 3WC + 0.74 (45) ox.	1.80 (110) 3WC
		Substrate type	monolithic	monolithic
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system	
	Energy source (manifold, vacuum, carburetor, other)		manifold vacuum	
	Discharges (to intake manif., other)		intake manifold	
	Air inlet (breather cap, other)		air cleaner	
Evapora- tive emis- sion control	Vapor vented to (crank- case, canister, other)	Fuel tank	canister	
		carburetor	--	
	Vapor storage provision		canister	
Electronic system	Closed loop (yes/no)		yes - hot engine	
	Open loop (yes/no)		yes - cold engine	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single w/120 in ³ conv. & air inj.	single w/110 in ³ converter
Muffler no. & type (reverse flow, straight through separate resonator) Mat'l & mass [kg(weight lbs.)]		one, reverse flow aluminized steel	stainless steel
Resonator no. & type		none	
Exhaust pipe	Branch o. d., wall thickness	50.8 × 1.4 (2.00 × 0.055)	57/63.5 × 1.4 (2.2/2.5 × 0.055)
	Main o. d., wall thickness	47.8 × 1.4 (1.88 × 0.055)	63.5 × 1.4 (2.50 × 0.055)
	Material & mass [kg(weight lbs.)]	stainless steel	stainless steel
Intermed- iate pipe	o. d., & wall thickness	(c)	(d)
	Material & mass [kg(weight lbs.)]	aluminized steel	stainless steel
Tail pipe	o. d., & wall thickness	(c)	(d)
	Material & mass [kg(weight lbs.)]	aluminized steel	stainless steel

(a) aspirator, exhaust gas recirculation, engine modifications, catalytic converter

(b) exhaust gas recirculation, engine modifications, catalytic converter

(c) 47.8 × 1.1 (1.88 × 0.043)

(d) 47.8 × 1.2 (1.88 × 0.047)

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Car Line **CHRYSLER LASER**

Model Year **1986** Issued **5-15-85** Revised (•) _____

Engine Description/Carb.
 Engine Code

2.2L (135.0 in³) EFI EDF	2.2L (135.0 in³) Turbo EFI EDG
--	--

Transmissions/Transaxle

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

Manual Transmissions/Transaxle

Number of forward speeds		5
Transmission ratios	In first	3.29
	In second	2.08
	In third	1.45
	In fourth	1.04
	In fifth	0.72
	In overdrive	--
	In reverse	3.14
Synchronous meshing (specify gears)		all forward gears
Shift lever location		floor
Lubricant	Capacity [L(pt.)]	2.15 (4.55)
	Type recommended	Mopar Dexron II automatic transmission fluid
	SAE viscosity number	Summer
		Winter
		Extreme cold

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Luk, dry disc cable	Aisen Seiki, dry disc cable	Fichtel & Sachs, dry disc cable
Assist (yes, no/percent)		no		
Type pressure plate springs		belleville		
Total spring load [N(lb.)]		4400 (989)	3880 (872)	5700 (1282)
No. of clutch driven discs		one		
Clutch facing	Material	woven asbestos		
	Manufacturer	Textar		
	Part Number	A302295201	31501-99838	181861877001
	Rivets/Plate	16		
	Rivet Size	9.50 (0.374)	8.00 (0.315)	10 (0.39)
	Outside & inside diameter	215 x 154 (8.46 x 6.06)	215 x 140 (8.46 x 5.51)	228 x 150 (8.98 x 5.91)
	Total eff. area [cm ² (in ²)]	353.6 (54.8)	418.2 (64.8)	438.0 (67.9)
	Thickness	3.45 (0.136)	3.5 (0.138)	3.5 (0.138)
	Engagement cushion method	wave spring segments		
Release Bearing	Type & method of lubrication	angular contact ball bearing, permanently lubed with grease		
Torsional Damping	Method: springs, frictional material	coil springs and fiber friction washers		

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Engine Description/Carb.
 Engine Code

2.5L (153.0 in³)/EFI
EDM

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	not available
Manual 4-speed (std., opt., n.a.) (mfr.)	not available
Manual 5-speed (std., opt., n.a.) (mfr.)	standard
Manual overdrive (std., opt., n.a.) (mfr.)	not available
Automatic (std., opt., n.a.) (mfr.)	optional
Automatic overdrive (std., opt., n.a.) (mfr.)	not available

Manual Transmissions/Transaxle

Number of forward speeds		5
Transmission ratios	In first	3.29
	In second	2.08
	In third	1.45
	In fourth	1.04
	In fifth	0.72
	In overdrive	--
	In reverse	3.14
Synchronous meshing (specify gears)		all forward gears
Shift lever location		floor
Lubricant	Capacity [L(pt.)]	2.15 (4.55)
	Type recommended	Mopar Dexron II automatic transmission fluid
	SAE viscosity number	Summer --
		Winter --
		Extreme cold --

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Fichtel and Sachs, dry disc cable
Assist (yes, no/percent)		no
Type pressure plate springs		Belleville
Total spring load [N(lb.)]		4300 (966)
No. of clutch driven discs		one
Clutch facing	Material	woven asbestos
	Manufacturer	Textar
	Part Number	102-11798 (Borg And Beck)
	Rivets/Plate	32
	Rivet Size	9 (0.354)
	Outside & inside diameter	232 x 155 (9.13 x 6.10)
	Total eff. area (cm ² (in ²))	463.5 (71.86)
	Thickness	3.5 (0.138)
Engagement cushion method		wave spring segments
Release Bearing	Type & method of lubrication	angular contact ball bearing, permanently lubed with grease
Torsional Damping	Method: springs, frictional material	coil springs and fiber friction washers

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Passenger Car
METRIC (U.S. Customary)

Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6-15-85** Revised (•) _____

Engine Description/Carb.

Engine Code

2.2L (135.0 in³)
EFI, EDF

2.2L (135.0 in³), 2.5L (153.0 in³)
EFI Turbo, EDG; EFI, EDM

Automatic Transmission/Transaxle

Trade Name		Torqueflite	
Type and special features (describe)		Torque Converter with Automatically Operated Planetary Transmission and Parallel Axis Final Drive	
Selector	Location	Floor Console Mounted	
	Ltr./No. designation	PRND21	
Gear ratios	R	2.10	
	D	2.69, 1.55, 1.00	
	L ₁	-	
	L ₂	2.69, 1.55	
	L ₃	2.69	
Max. upshift speed - drive range [km/h (mph)]		113 (70)	129 (80)
Max. kickdown speed - drive range [km/h (mph)]		105 (65)	119 (74)
Min. overdrive speed [km/h (mph)]		-	
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.00:1	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	241 (9.5)	
Lubricant	Capacity (refill L (pt.))	8.40 (17.75) (a)	
	Type recommended	Dexron II Automatic Transmission Fluid	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Water Cooled	Air Cooled

Axle or Front Wheel Drive Unit

Type (front, rear)			Front
Description			Transaxle
Limited slip differential (type)			N.A.
Drive pinion offset			-
Drive pinion (type)			Helical
No. of differential pinions			Two
Pinion/differential adjustment (shim, other)			
Pinion/differential bearing adjustment (shim, other)			Shim
Driving wheel bearing (type)			Double Row Ball or Double Row Taper Roller
Lubricant	Capacity [L (pt.)]		
	Type recommended		
	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 top gear ratio)		2.57	3.02
No. of teeth	Pinion	16	21
	Ring gear or gear	57	60
Ring gear o.d.		198.05 (7.97)	184.53 (7.26)
Transaxle	Transfer gear ratio	-	1.06
	Final drive ratio	3.56	2.86

(a) Torque Converter, Transmission, and Differential

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Car Line **CHRYSLER LASER**

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Engine Description/Carb.
 Engine Code

2.2L (135.0 in.³)
EFI, EDF

2.2L (135.0 in.³)
EFI Turbo, EDG

Axle Shafts - Front Wheel Drive

Number used			Two	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar	
		Right	Tube	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	-	
		Right	-	
	Automatic transmission	Left	GKN-EUR: 22.86x365.4(0.9x14.39)(a)	Citroen: 22.86x363(0.90x14.29) (c)
		Right	(b)	Same as above
	Optional transmission	Left	-	
		Right	-	
Slip Yoke	Type		-	
	Number of teeth		-	
	Spline o.d.		-	
Universal joints	Make and mfg. no.	Inner	(d)	GKN-EUR: G172 or Citroen
		Outer	(e)	GKN EUR: 95 AC or Citroen
	Number used		Two	
	Type, size, plunge	Inner	Tripod plunge	
		Outer	Rzeppa-fixed	
	Attach (u-bolt, clamp, etc.)		-	
	Bearing	Type (plain, anti-friction)	-	
		Lubrication (fitting, prepack)	Prepack	
Drive taken through (torque tube, arms or springs)			-	
Torque taken through (torque tube, arms or springs)			-	

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

(a) GKN-US: 24.2x364.1 (0.95x14.33) or Citroen: 22.86x363 (0.90x14.29) or SSG: 23.81x358.0 (0.937x14.095)

(b) GKN-EUR: 40.5x600.8x2.7 (1.59x23.65x1.0) GKN-US: 40.5x603.3x3.72 (1.59x23.75x0.146) or Citroen: 40x598.3x3.2 (1.57x23.56x0.126) or SSG: 38.0x59.1x5.0 (1.496x23.272x0.197)

(c) or GKN-Eur: 22.86x362.3(0.90x14.26)

(d) GKN-EUR: G169 or Citroen/GKN-USC-2000 or SSG #19

(e) GKN-EUR: 92 AC or Citroen/GKN-USC-2000 or SSG #23

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Car Line CHRYSLER LASER
 Model Year 1986 Issued 6-15-85 Revised (•) _____

Engine Description/Carb.
 Engine Code

2.5L (153.0 in.³)
EFI, EDM

Axle Shafts - Front Wheel Drive

Number used			Two
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Tube
Outer diam. x length* x wall thickness	Manual transmission	Left	-
		Right	-
	Automatic transmission	Left	Citroen: 22.86x363(0.90x14.29) or GKN-Eur: 22.86x362.3(0.90x14.26)
		Right	GKN-EUR: 40.5x600.8x2.7 (1.59x23.65x0.106) (a)
	Optional transmission	Left	-
		Right	-
Slip Yoke	Type		-
	Number of teeth		-
	Spline o.d.		-
Universal joints	Make and mfg. no.	Inner	GKN-EUR: GI72 or Citroen
		Outer	GKN EUR: 95 AC or Citroen
	Number used		Two
	Type, size, plunge	Inner	Tripod plunge
		Outer	Rzeppa-fixed
	Attach (u-bolt, clamp, etc.)		-
	Bearing	Type (plain, anti-friction)	-
		Lubrication (fitting, prepack)	Prepack
Drive taken through (torque tube, arms or springs)			-
Torque taken through (torque tube, arms or springs)			-

*Centerline to centerline of universal joints, or to centerline of attachment
 (a) or Citroen 40x593.8x3 2 (1.57x23.56x0.126)

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Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6-15-85** Revised (e) _____

Body Type And/Or
 Engine Displacement

24		
Standard (SDA)	Firm Feel (SDC)(a)	Firm Feel (SDE)(b)

Suspension - General

Car leveling	Std./opt./n.a.	N.A.	
	Type (air, hyd., etc.)	-	
	Manual/auto controlled	-	
Provision for brake dip control		Inclined Control Arm and Strut	
Provision for accel. squat control		None	
Provisions for car jacking		Scissors-Type Sill Jack Jack Supports Located at Each End of Body Sills	
Shock absorber (front & rear)	Type	Front: Direct Rear: Gas Charged	Gas Charged
	Make	Front: Monroe	Rear: Monroe
	Piston diameter	Front: 32 (1.26)	Rear: 30.2 (1.19)
	Rod diameter	Front: 20 (0.79)	Rear: 12.7 (0.50)

Suspension - Front

Type and description		Iso-Strut	
Drive and torque taken through		-	
Travel	Full jounce	65.0 (2.56)	72.7 (2.86)
	Full rebound	109.4 (4.30)	101.7 (4.00)
Spring	Type (coil, leaf, other) & mat'l.	coil, AISI 5160H Chromium Steel	
	Insulators (type & material)	Compression: Rubber	
	Size (coil design height & i.d., bar length x dia.)	229 x 152 I.D. (9.00 x 6.00 I.D.)	
	Spring rate [N/mm (lb./in.)]	14.9 (85)	21.0 (120)
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)	24.5 (140)
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material & bar diameter	AISI 1090 Spring Steel 27.0 (1.06)	31.8 (1.25)

Suspension - Rear

Type and description		Trailing Flex Arm with Track Bar		
Drive and torque taken through		Arm		
Travel	Full jounce**	103.1 (4.06)	82.6 (3.25)	93.6 (3.69)
	Full rebound	87.5 (3.44)	81.4 (3.20)	70.4 (2.77)
Spring	Type (coil, leaf, other) & mat'l	Coil; AISI 5160H Chromium Alloy Steel		
	Size (length x width, coil design height & i.d., bar length x dia.)	229 x 102 I.D. (9.0 x 4.01 I.D.)		
	Spring rate [N/mm (lb./in.)]	28 (160)	42 (240)	
	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	27 (151)	
	Insulators (type & material)		Compression: Rubber	
	if leaf	No. of leaves	-	
		Shackle (comp. or tens.)	-	
Stabilizer	Type (link, linkless, frameless)	Frameless ERW Tube		Frameless Rod
	Material & bar diameter	80KSI HSLA Steel 25.4 (1.0) O.D.	80KSI HSLA Steel 28.6 (1.13) O.D.*	
Track bar (type)		Channel type		

*Both SDE & SDC
 **from curb

(a) Standard on Laser XE w/turbo engine
 (b) Standard w/ Laser XT package

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Car Line **CHRYSLER LASER**

Model Year **1986**

Issued **6 - 15 - 85**

Revised (•)

Body Type And/Or
 Engine Displacement

ALL

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)		dual proportioning valve		
Power brake (std., opt., n.a.)			standard		
Booster type (remote, integral, vac., hyd., etc.)			vacuum, single or tandem		
Vacuum source (inline, pump, etc.)			intake manifold		
Vacuum reservoir (volume in. ³)			--		
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			--		
Anti-skid device type (std., opt., n.a.) (F/R)			N. A.		
Effective area [cm ² (in. ²)]* (F/R)			513.27 (79.56)	526.88 (1.67)	
Gross lining area [cm ² (in. ²)]** (F/R)			543.04 (84.17)	560.96 (86.95)	
Swept area[cm ² (in. ²)]*** (F/R)			1776.77 (275.40)	1825.30 (282.92)	
Rotor	Outer working diameter	F/R	front: 254.8 (10.03)	front: 256.2 (10.09)	
	Inner working diameter	F/R	front: 160.8 (6.33)	front: 158.2 (6.23)	
	Thickness	F/R	front: 24.0 (0.945)		
	Material & type (vented/solid)	F/R	front: damped cast iron, vented		
Drum	Diameter & width	F/R	rear: 220 (8.86) x 44.26 (1.74)		
	Type and material	F/R	rear: cast composite		
Wheel cylinder bore			front: 54 (2.13); rear: 14.27 (0.562)		
Master cylinder	Bore/stroke	F/R	21.0 (0.827)/32.79 (1.291)		
Pedal arc ratio			all: 3.28:1		
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			power: 9854 (1390)		
Lining clearance		F/R	no major adjustments		
Brake Lining	Front wheel (a)	Bonded or riveted (rivets/seq.)		riveted, 6/shoe	
		Rivet size		3.57 (0.14) dia. x 7.57 (0.3)	4.65 (0.18) dia. x 7.5 (0.3)
		Manufacturer		Bendix	
		Lining code *****		BX-JD-EE	
		Material		molded metallic	
		****	Primary or out-board	4764 x 11.34 (7.38 x 0.446)	
		Size	Secondary or in-board	4280 x 12.34 (6.36 x 0.486)	
		Shoe thickness (no lining)		outer: 4.83 (0.190); inner: 5.68 (0.224)	
	Rear wheel	Bonded or riveted (rivets/seq.)		riveted, 10/shoe	
		Manufacturer		Bendix	
		Lining code *****		--	
		Material		rolled asbestos	
		****	Primary or out-board	226.35 x 40.0 x 6.65 (8.91 x 1.575 x 0.262)	
		Size	Secondary or in-board	226.35 x 40.0 x 6.65 (8.91 x 1.575 x 0.262)	
		Shoe thickness (no lining)		2.17 (0.0854)	

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept area for 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) area x thickness

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Body Type And/Or
 Displacement

Laser	Laser XE
--------------	-----------------

Tires and Wheels (Standard)

Tires	Size (load range)		P185/70 R 14, SL	P205/60 HR 15, SL
	Type (bias, radial, etc.)		Steel 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)		862	846
Wheels	Type & material		Disc Steel	Cast Aluminum
	Rim (size & flange type)		14 x 5.5 JJ	15 x 6.0 JJ
	Wheel offset		40 (1.6)	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	100 (3.94)	
Spare	Tire and wheel (same, if other describe)		T115/70 D14 Compact Spare 14 x 4.0 T Steel Disc Wheel	T125/70 D14 Compact Spare 14 x 4.0 T Steel Disc Wheel
	Storage position & location (describe)		Horizontal - Rear Floor Pan Under Cargo Area	

Tires and Wheels (Optional)

Size (load range)		P195/70 R 14, SL (a)	P225/50 VR 15, SL (a)
Type (bias, radial, etc.)		Steel Radial	
Wheel (type & material)		Cast Aluminum	
Rim (size, flange type and offset)		14 x 5.5 JJ 40 (1.6)	15 x 6.5 JJ 40 (1.6)
Size (load range, ply)			
Type (bias, radial, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Size (load range, ply)			
Type (bias, radial, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
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)		Matching Spare Available with P185/70 R 14 Tires Only	

Brakes - Parking

Type of control		Foot Operated Pedal, Hand Release Lever
Location of control		Upper End of Instrument Panel
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

(a) T125/70 D14 Compact Spare, 14 x 4.0 T Steel Disc Wheel

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Body Type And/Or
 Engine Displacement

185 and 195 Width Tires

205 and 225 Width Tires

Steering Manual (std., opt., n.a.)

Manual (std., opt., n.a.)				not available		
Power (std., opt., n.a.)				standard		
Adjustable steering wheel (tilt, swing, other)		Type and description		tilt		
		(Std., opt., n.a.)		optional		
Wheel diameter (W9) SAE J1100		Manual		--		
		Power		381 (15)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.3 (37.0)	13.1 (42.9)	
		Curb to curb (l. & r.)		10.5 (34.3)	12.4 (40.7)	
	Inside rear	Wall to wall (l. & r.)		5.8 (19.0)	7.9 (26.1)	
		Curb to curb (l. & r.)		5.9 (19.3)	8.0 (26.3)	
Scrub Radius*				-10 (-0.4)		
Manual	Gear	Type				
		Make				
		Ratios	Gear			
			Overall			
	No. wheel turns (stop to stop)					
Power	Type (coaxial, linkage, etc.)		integral power unit			
	Make		Saginaw			
	Gear	Type		rack and pinion with integral power unit		
		Ratios	Gear	--		
			Overall	14.2:1		
	Pump (drive)		pulley and belt, off crankshaft			
	No. wheel turns (stop to stop)		2.5		2.05	
Linkage	Type		rack and pinion (rod and ball directly attached to gear)			
	Location (front or rear of wheels, other)		rear of wheels			
	Tie rods (one or two)		2 (tie rod inners integral with rack and pinion gear)			
Steering Axis	Inclination at camber (deg.)		13.3			
	Bearings (type)	Upper	ball bearing			
		Lower	ball joint			
		Thrust	ball joint			
Steering spindle & joint type				Iso-Strut with lower ball joint		
Wheel spindle	Diameter	Inner bearing		76/42 (3.0/1.65) dia.; 37/40 (1.46/1.57) wide		
		Outer bearing		--		
	Thread (size)		M22 x 1.5			
	Bearing (type)		double row Unipack ball or tapered roller bearing			

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

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Body Type And/Or
 Engine Displacement

All

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	-
		Camber (deg.)	-0.2° to +0.8°
		Toe-in [outside track-mm (in.)]	5.6 (0.218) Toe-in to 3.2 (0.125) Toe-out
	Service reset*	Caster	Not adjustable
		Camber	Same as above
		Toe-in	Same as above
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber	-1.3° to +0.3°
		Toe-in [outside track-mm (in.)]	7.6 (0.3) Toe-out to 7.6 (0.3) Toe-in
	Service reset*	Camber	Same as above (shim)
		Toe-in	Same as above (shim)
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical - Instruments and Equipment

Mechanical Cluster

Electronic Cluster

Speedometer	Type	Magnetic torque drive	Vacuum flourescent display
	Trip odometer (std., opt., n.a.)	Standard	Vacuum flourescent display Std.
EGR maintenance indicator		-	-
Charge indicator	Type	Voltmeter	Vacuum flourescent Voltmeter
	Warning device	Light (opt.)	-
Temp. Indicator	Type	Magnetic gage	Vacuum flourescent gage
	Warning device	Light (opt.)	-
Oil pressure indicator	Type	Magnetic gage	Vacuum flourescent gage
	Warning device	Light Oil (std.)	Light Oil (std.)
Fuel indicator	Type	Magnetic gage	Vacuum flourescent gage
	Warning device	-	-
Wind shield wiper	Type (standard)	Electric 2-speed, Non-depressed park	
	Type (optional)	Electric 2-speed, Intermittent wipe	
	Blade length	457 (18)	
	Swept area (cm ² (in. ²))	6064.5 (940)	
Windshield washer	Type (standard)	Electric (arm mounted)	
	Type (optional)	-	
	Fluid level indicator	Optional	
Horn	Type	Four-inch seashell	
	Number used	Two, standard	
Other			

*Indicates high coolant temperature or low oil pressure

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Car Line CHRYSLER LASER
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Engine Description/Carb.
 Engine Code

2.2L (135.0 in. ³)		2.5L (153.0 in. ³)
EFI, EDF	EFI Turbo, EDG	EFI., EDM

Electrical - Supply System

Battery	Make	Mopar		
	Model, std., (opt.)	GRP 26 (GRP 34)	GRP 34	GRP 26 (GRP 34)
	Voltage	12V		
	Amps at 0°F cold crank	335 (500) (c)	400 (500)	335 (500)
	Minutes-reserve capacity	62 (10)	100 (62)	62 (10)
	Amp/hr. - 20 hr. rate	-		
	Location	Left front fender side shield		
Generator or alternator	Type and rating	90 Amp		
	Ratio (alt. crank/rev.)	2.4:1	2.52:1	
	Optional (type & rating)	-		
Regulator	Type	Electronic		

Electrical - Starting System

Start, motor	Current drain at 0°F	210-250A	230-280A
Motor drive	Engagement type	Solenoid shift	
	Pinion engages from (front, rear)	Front	

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard		
	Other (specify)	(a)	(b)	(a)
Coil	Make	UTC or Prestolite		
	Model	5226865	5226866	
	Current	3.0A		
	Engine idling - A	1.9A		
Spark plug	Make	Champion		
	Model	RN12YC		
	Thread (mm)	14 mm		
	Tightening torque (N-m (lb-ft))	(20)		
	Gap	(0.035in.)		
	Number per cylinder	one		
Distributor	Make	Chrysler		
	Model	5226575	5226525	5226575

Electrical - Suppression

Locations & type	
------------------	--

- (a) Electronic fuel injection - Engine control electronics
 (b) Electronic fuel injection turbo-charged - Engine control electronics
 (c) 400 (100 min.) Standard w/heated backlite

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Body Type

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Body

Structure	
Bumper system front - rear	Front - Urethane Fascia 4.45 kg (9.8 lb) Aluminum 5.32 kg (11.7 lb) Rear - Urethane Fascia 5.0 kg (11.0 lb) Ultra High -Strength, Low Carbon Steel 5.69 kg (12.5 lb)
Anti-corrosion treatment	Extensive use of galvanized steel.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Buffable Acrylic Enamel	
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Counterbalance
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	-
Hatch-back lid	Type (counterbalance, other)	Gas Pressurized Struts
	Internal release control (elec., mech., n.a.)	Remote Cable
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket Flex-O-lator Mat
	Rear	Full Foam
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket Flex-O-lator Mat
	Rear	Full Foam
	3rd seat	-

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Body Type

24

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: lap and shoulder belt Rear: Lap belt
	Location	Front: Two Rear: Two
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
Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm ² (in ²)]	S1	6718 (1041)
Side glass exposed surface area [cm ² (in ²)]	S2	7907 (1226)
Backlight glass exposed surface area [cm ² (in ²)]	S3	9604 (1489)
Total glass exposed surface area [cm ² (in ²)]	S4	24229 (3755)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Heat treated safety glass
Backlight glass (type)		Heat treated safety glass

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

Car Line CHRYSLER LASER
 Model Year 1986 Issued 6-15-85 Revised (●) _____

Body Type

All

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

Air conditioning (manual, auto, temp. control)		Manual - Opt.	
Clock (digital, analog)		Digital - Std. w/Radio	
Compass/thermometer		N.A.	
Console (floor, overhead)		Floor - Std.	
Defroster, elec. backlight		EBL - Opt.	
Electronic	Diagnostic warning (integrated, individual)	N.A.	
	Instrument cluster (list instruments)	Std. - Premium N.A. - High (See Page 15).	
	Keyless entry	N.A.	
	Tripminder (avg. spd., fuel)	Std. w/ Electronic Navigator	
	Voice alert (list items)	Opt. N.A. - Premium*	
	Other Navigator	Std. - Premium Opt. - High*	
	Graphic Message Center	Std.*	
Fuel door lock (remote, key, electric)		N.A.	
Lamps	Auto head on / off delay, dimming	N.A.	
	Cornering	N.A.	
	Courtesy (map, reading)	Std. - Premium Opt. - High	
	Door lock, ignition	Door Lock - Opt. Ignition - Std. Premium Opt. - High	
	Engine compartment	Std. - Premium Opt. - High	
	Fog	N.A.	
	Glove compartment	Std. - Premium Opt. - High	
	Trunk (Cargo)	Std. - Premium Opt. - High	
	Other		
Mirrors	Day/night (auto. man.)	Manual - Std.	
	L.H. (remote, power, heated)	High - Manual - Std. Premium - Power - Std. (e)	
	R.H. (convex, remote, power, heated)	High - Manual - Std. Premium - Power - Std. (e)	
	Visor vanity (RH / LH, illuminated)	RH - Std.	
Parking brake-auto release (warning light)		Std.	
Power equipment	Door locks / deck lid - specify	Door Locks - Opt.	
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Manual Lumbar, Thigh Support - Std. - Premium Opt. High	
	Side windows	Opt.	
	Vent windows	N.A.	
	Rear window	N.A.	
Radio systems	Antenna (location, whip, w/shield, power)	Whip - Std. Right Front Fender	
	AM, FM, stereo, tape, CB	High (a) - Std. (b) (c) (d) - Opt. Premium (b) - Std. (c) (d) - Opt.*	
	Speaker (number, location) Premium sound	N.A.	
Roof open air/fixed (flip-up, sliding, "T")		Sun Roof - Opt. T-Bar - Opt.	
Speed control device		Opt.	
Speed warning device (light, buzzer, etc.)		N.A.	
Tachometer (rpm)		Std.	
Theft protection-type		Inside Hood Release - Std. Glove Box Lock - Std. Locking Steering Column - Std.	

*See Page 19A.

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

Car Line CHRYSLER LASER
Model Year 1986 Issued 6-15-85 Revised (●) _____

-
- (a) AM Electronically Tuned Radio
 - (b) AM/FM/MX ETR
 - (c) AM/FM/MX Cassette/ETR
 - (d) AM/FM/MX Cassette/ETR Ultimate Sound System (Includes Premium Speakers)
 - (E) L.H. and R.H. Mirrors: Power - Opt. High Power/Heated - Opt.

Electronic Voice Alert Includes: Key in Ignition, Headlights on, Fasten Seat Belts, Door Ajar, Low Washer Fluid, Parking Brake on, Low Fuel, Low Oil Pressure, Electrical System Malfunction and All Monitored Systems Functioning.

Electronic Navigator Includes: US/MET Conversion, Distance to Empty Fuel Tank, Estimated Time of Arrival, Distance to Destination, Clock/Date, Fuel Consumed, Average Speed, Miles Traveled, Elapsed Driving Time, Instantaneous and Average MPH Readings.

Graphic Message Center Includes: Low Fuel, Low Washer Fluid, Door Ajar and Trunk Ajar.

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

Car Line **CHRYSLER LASER**
 Model Year **1986** Issued **6-15** Revised (•) _____

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type Width	SAE Ref. No.	24
Tread (front)	W101	1464 (57.6)
Tread (rear)	W102	1464 (57.6)
Vehicle width	W103	1760 (69.3)
Body width at SqRP (front)	W117	1759 (69.3)
Vehicle width (front doors open)	W120	3848 (151.5)
Vehicle width (rear doors open)	W121	-
Front fender overall width	W106	1740 (68.5)
Rear fender overall width	W107	1751 (68.9)
Tumble-home (deg.)	W122	29°

Length

Wheelbase	L101	2465 (97.0)
Vehicle length	L103	4446 (175.0)
Overhang (front)	L104	1024 (40.3)
Overhang (rear)	L105	957 (37.6)
Upper structure length	L123	2664 (104.9)
Rear wheel C/L "X" coordinate	L127	2553 (100.5)
Cowl point "X" coordinate	L125	576 (22.7)
Front end length at centerline	L126	1512 (59.5)
Rear end length at centerline	L129	269 (10.6)

Height*

Passenger distribution (front/rear)	PD1,2,3	2-FRONT, 2-REAR (a)
Trunk/cargo load		-
Vehicle height	H101	1279 (50.4)
Cowl point to ground	H114	935 (36.8)
Deck point to ground	H138	849 (33.4)
Rocker panel-front to ground	H112	207 (8.1)
Bottom of door closed-front to grd.	H133	246 (9.7)
Rocker panel-rear to ground	H111	187 (7.4)
Bottom of door closed-rear to grd.	H135	-
Windshield slope angle	H122	60°
Backlight slope angle	H121	70°

Ground Clearance

Front bumper to ground	H102	258 (10.2)
Rear bumper to ground	H104	298 (11.7)
Bumper to ground [front at curb mass (wt.)]	H103	275 (10.8)
Bumper to ground [rear at curb mass (wt.)]	H105	359 (14.1)
Angle of approach (degrees)	H106	14.9°
Angle of departure (degree)	H107	17°
Ramp breakover angle (degrees)	H147	11.8°
Axle differential to ground (front/rear)	H153	182 (7.2)
Min. running ground clearance	H156	115 (4.5)
Location of min. run. grd. clear.		FRT. SUSP. C'MBR. BRKT.

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

(a) Weighted vehicle loading capacity 325 (715)

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

Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6-15-85** Revised (•) _____

See Key Sheets for Definitions

Body Type

SAE
Ref.
No.

24

Front Compartment

SqRP front, "X" coordinate	L31	1430 (56.3)
Effective head room	H61	94.2 (37.1)
Max. eff. leg room (accelerator)	L34	1077 (42.4)
SqRP to heel point	H30	231 (9.1)
SqRP to heel point	L53	880 (34.6)
Back angle	L40	26°
Hip angle	L42	98°
Knee angle	L44	128°
Foot angle	L46	87°
Design H-point front travel	L17	205 (8.1)
Normal driving & riding seat track trvl.	L23	185 (7.3)
Shoulder room	W3	1420 (55.9)
Hip room	W5	1382 (54.4)
Upper body opening to ground	H50	1016 to "0" (40.0)
Steering wheel maximum diameter	W9	381 (15.0)
Steering wheel angle	H18	23°
Accel. heel pt. to steer. whl. cntr.	L11	516 (20.3)
Accel. heel pt. to steer. whl. cntr.	H17	606 (23.9)
Steering wheel to C/L of thigh	H13	90 (3.5)
Steering wheel torso clearance	L7	362 (14.3)
Headlining to roof panel (front)	H37	18 (0.7)
Undepressed floor covering thickness	H67	22 (0.9)

Rear Compartment

SqRP Point couple distance	L50	679 (26.7)
Effective head room	H63	872 (34.3)
Min. effective leg room	L51	763 (30.0)
SqRP (second to heel)	H31	250 (9.8)
Knee clearance	L48	-84 (-3.3)
Compartment room	L3	551 (21.7)
Shoulder room	W4	1362 (53.6)
Hip room	W6	1216 (47.9)
Upper body opening to ground	H51	-
Back angle	L41	22°
Hip angle	L43	72°
Knee angle	L45	68°
Foot Angle	L47	114°
Headlining to roof panel (second)	H38	-
Depressed floor covering thickness	H73	13 (0.5)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	272 (9.6) (a)
Liftover height	H195	

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Subcompact
Interior volume index (cu. ft.)		99.7
Trunk/cargo index (cu. ft.)		484 (17.1)

(a) with tonneau cover

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

Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6-15-85** Revised (•) _____

See Key Sheets for Definitions

Body Type

SAE
Ref.
No.

41

Station Wagon - Third Seat

SqRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SqRP 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	1223 (48.1)
Cargo length at floor (front)	L209	1745 (68.7)
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	545 (21.5)
Second seatback to load floor height	H198	
Cargo volume index [m ³ (ft. ³)]	V3	1.189 (42.0)
Hidden cargo volume [m ³ (ft. ³)]	V4	-
Cargo volume index-rear of 2-seat	V11	-

Aerodynamics*

Wheel lip to ground, front		637 (25.1)
Wheel lip to ground, rear		639 (25.2)
Frontal area [m ² (ft. ²)](a)		1.99 (21.43)
Drag coefficient (Cd)		N.A.

* Describe measurement method

(a) Two outside mirrors, 185/R70-14 tires

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

Car Line CHRYSLER LASER
 Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type

ALL

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in front longitudinal approximately 836 mm (32.9 in.) from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinal approximately 3134 mm (123.4 in) from the centerline of front wheels.
Front	W21	433.5 (17.1)
	L54	925 (36.4)
	H81	- 9 (- 0.35) Bottom Surface of Longitudinal
	H161	
	H163	
Rear	W22	527.6 (20.8)
	L55	3300 (129.9)
	H82	236 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

*Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
 All linear dimensions are in millimeters (inches).

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

Car Line **CHRYSLER LASER**

Model Year **1986** Issued **6 - 15 - 85** Revised (●)

Body Type

ALL

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	629.0 (24.8)
		Lowest	not applicable
	Taillamp (SAE - H128)	Highest**	728.0 (28.7)
		Lowest	not applicable
	Sidemarker	Front	510.0 (20.1)
		Rear	728.0 (28.7)
Height above ground to center of bulb or marker	Headlamp	Inside	408.0 (16.1)
		Outside**	585.0 (23.0)
	Taillamp	Inside	not applicable
		Outside**	649.0 (25.6)
	Directional	Front	609.0 (24.0)
		Rear	649.0 (25.6)
Halogen headlamp (std., opt., n.a.)	Lo beam		standard
	Hi beam		standard
	Replaceable bulb		not available
	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.

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

Car Line **CHRYSLER LASER**

Model Year 1985 Issued 6-15-85 Revised (●)

[illegible]

*Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

****Shipping mass (weight) definition -**

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

Car Line **CHRYSLER LASER XE**

Model Year 1986 Issued 6-15-85 Revised (●)

[illegible]

*Reference - SAE J1100 Motor vehicle dimensions, curb weight definition

****Shipping mass (weight) definition -**

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

Car Line CHRYSLER LASER
 Model Year 1986 Issued 6-15-85 Revised (●) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
500 Amp Battery	.9 (2)	0 (0)	.9 (2)	
Enthusiast Seat	2.7 (6)	2.7 (6)	5.4 (12)	
Cargo Dress-Up	0 (0)	.9 (2)	.9 (2)	
Frt/RR Floor Mats	.9 (2)	1.4 (3)	2.3 (5)	
Tonneau Cover	-.4 (-1)	2.7 (6)	2.3 (5)	
Automatic Transmission	20 (44)	-2.7 (-6)	17.3 (38)	EFI Engine
	15.9 (35)	-2.7 (-6)	13.2 (29)	Turbo Engine
Sun Roof	2.7 (6)	5 (11)	7.7 (17)	
Air Conditioning	26.8 (59)	-2.3 (-5)	24.5 (54)	
Sound Insulation	-.5 (-1)	7.7 (17)	7.2 (16)	
Rear Wiper/Washer	-1.4 (-3)	6.8 (15)	5.4 (12)	
Power Windows	1.8 (4)	1.4 (3)	3.2 (7)	
Power Door Locks	.9 (2)	.9 (2)	1.8 (4)	
Power Left Seat	3.6 (8)	3.2 (7)	6.8 (15)	
Auto Speed Control	1.8 (4)	0 (0)	1.8 (4)	
Radio - AM/FM/MX-ETR Cassette	2.7 (6)	2.7 (6)	5.4 (12)	

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

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

Car Line CHRYSLER LASER XE
 Model Year 1986 Issued 6-15-85 Revised (●) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
GLH Performance Pkg.	15 (33)	16.8 (37)	31.8 (70)	Turbo Engine
500 Amp Battery	.9 (2)	0 (0)	.9 (2)	
Frt/RR Floor Mats	.9 (2)	1.4 (3)	2.3 (5)	
Tonneau Cover	-.4 (-1)	2.7 (6)	2.3 (5)	
Automatic Transmission	20 (44)	-2.7 (-6)	17.3 (38)	EFI Engine
	15.9 (3.5)	-2.7 (-6)	13.2 (29)	Turbo Engine
Sun Roof	2.7 (6)	5 (11)	7.7 (17)	
Air Conditioning	26.8 (59)	-2.3 (-5)	24.5 (54)	
Rear Wiper/Washer	-1.4 (-3)	6.8 (15)	5.4 (12)	
Power Windows	1.8 (4)	1.4 (3)	3.2 (7)	
Power Door Locks	.9 (2)	.9 (2)	1.8 (4)	
Power Left Seat	3.6 (8)	3.2 (7)	6.8 (15)	
Auto Speed Control	1.8 (4)	0 (0)	1.8 (4)	
Radio - AM/FM/MX-ETR Cassette	2.7 (6)	2.7 (6)	5.4 (12)	
Undercoating	1.4 (3)	1.8 (4)	3.2 (7)	

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

Exterior Car And Body Dimensions – Key Sheet

[illegible]

Technical drawing of a car side profile with dimension lines and labels L101 through L129 and H101 through H138.

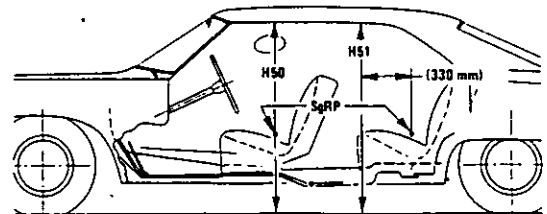
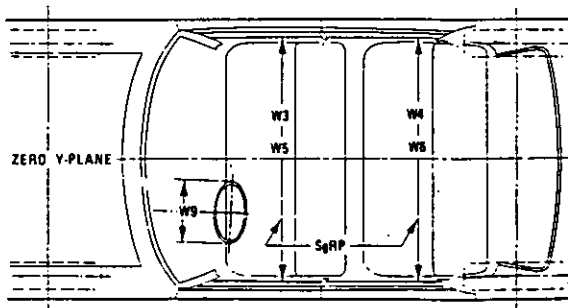
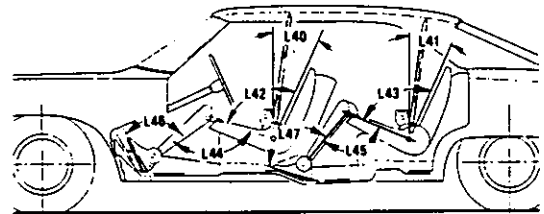
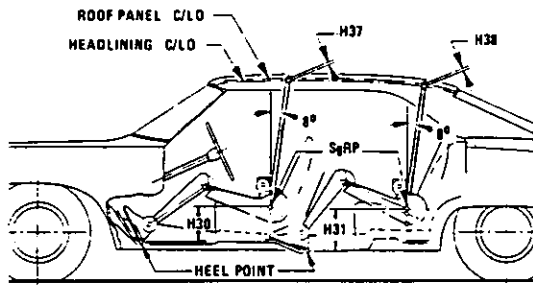
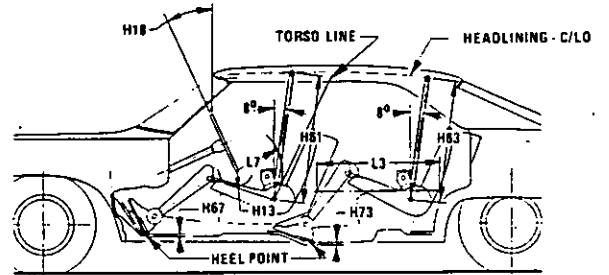
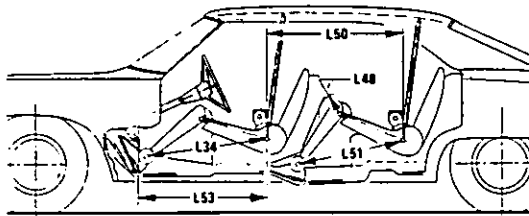
Technical drawing of a ramp assembly. The drawing shows a side view of a ramp with a central section labeled "H147 (RAMP BREAKOVER ANGLE)". The ramp is supported by two circular bases. Dimensions and angles are indicated: "H106" at the left base, "H153" at the right base, "H109" at the right base, and "H107" at the right end. The "INCLUDED RAMP ANGLE" is shown as the angle between the ramp surface and the horizontal line.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet



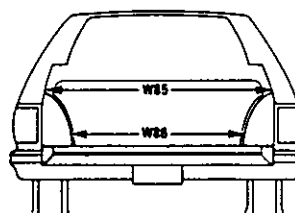
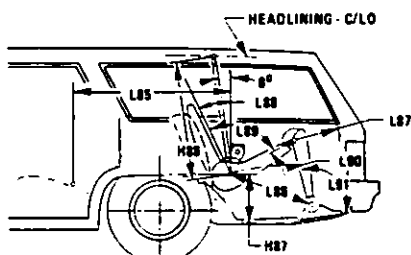
MVMA Specifications Form

Passenger Car

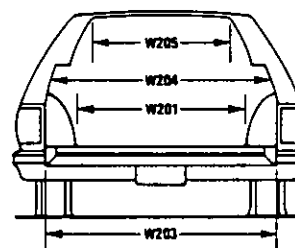
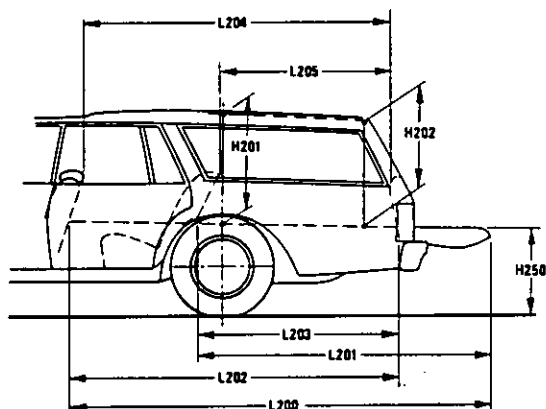
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

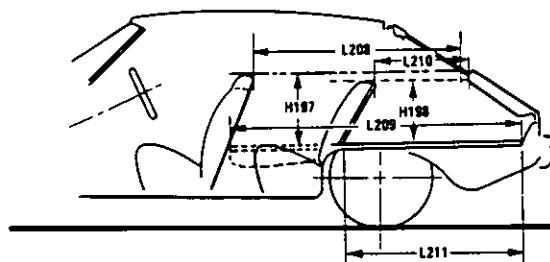
Third Seat



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.

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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 undeepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed 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 undeepressed 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 undeepressed 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.
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 undeepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undeepressed 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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