

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

Passenger Car

1987

Manufacturer <b>CHRYSLER MOTORS</b>	Car Line <b>PLYMOUTH RELIANT</b>	
Mailing Address <b>DETROIT, MICHIGAN 48288</b>	Issued <b>JUNE 20, 1986</b>	Revised

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

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

The General Specifications herein are those in effect at date of compilation and are subject to change without notice 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 PLYMOUTH RELIANT

Model Year 1987

Issued 6-20-86

Revised (a) \_\_\_\_\_

**Car Models**

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
<b>RELIANT-FWD</b>	<b>SEPT. 1986</b>			
2-DOOR SEDAN		PL21	5(2/3)	52(115)
4-DOOR SEDAN		PL41	5(2/3)	52(115)
<b>RELIANT LE-FWD</b>	<b>SEPT. 1986</b>			
2-DOOR SEDAN		PM21	5(2/3)	52(115)
4-DOOR SEDAN		PM41	5(2/3)	52(115)
2-SEAT WAGON		PM45	5(2/3)	68(150)

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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. <sup>3</sup> )	Carb. (Barrel, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N-m (lb. ft.)			
STD.	2.2L (135) EDF	EFI	9.5	72 (97) @ 5200	165 (122) @ 3200	S	MANUAL 5-Speed	2.51
				AUTOMATIC	2.78(a), 3.02(c)			
OPT. M	2.5L (153) EDM	EFI	9.0	75 (100) @ 4800	184 (136) @ 2800	S	AUTOMATIC	3.02, 3.22 (b)

(a) Not available for 45

(b) Police Package

(c) Police package and 45

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Engine description/Carb.  
 Engine Code

**2.2L (135.0 in<sup>3</sup>)**  
**EFI, EDF**

**2.5L (153.0 in<sup>3</sup>)**  
**EFI, EDM**

**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc.	Four-cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke (C/L to C/L)	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block mat'l. & mass kg (lbs.) (machined)	Cast Iron 35.79 (78.9)	Cast Iron 39.42 (86.9)
Cylinder block deck height	237.8 (9.36)	249.8 (9.83)
Cylinder block length	418 (16.46)	
Deck clearance (minimum) (above or below block)	0.00	
Cylinder head material & mass kg (lbs.)	Aluminum 9.71 (21.4)	
Cylinder head volume (cm³)	48.5 -51.5	
Cylinder liner material	n.a.	
Head gasket thickness (compressed)	1.78 (.070)	
Minimum combustion chamber total volume (cm³)	Clearance volume: 65.31	Clearance Volume: 73.815
Cyl. no. system (front to rear)*	Right to left as installed in car 1, 2, 3, 4	
	--	
Firing order	1, 3, 4, 2	
Intake manifold matl. & mass [kg(lbs.)]**	Aluminum 2.62 (5.8)	
Exhaust manifold matl. & mass [kg(lbs.)]**	Cast iron 6.23 (13.7)	
Recommended fuel (leaded, unleaded, diesel)	Regular unleaded	
Fuel antiknock index $\frac{R + M}{2}$	87 octane or higher	
Total dressed engine mass (wt) dry***	128.64 (283.6)	140.57 (309.9)

**Engine - Pistons**

Material & mass, g (weight, oz.) piston only	Aluminum	
	440 (15.7)	430 (15.1)

**Engine - Camshaft**

Location	Overhead	
Material & mass kg (weight, lbs.)	Hardenable cast iron 2.92 (6.4)	
Drive type	Chain/belt	Belt
	Width/pitch	Width: 24.7 (0.972) (a)
		23.8 (0.937) (a)

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

\*\*Finished state

\*\*\*Dressed engine mass (weight) includes the following: starter, alternator, manifolds, water pump, engine-mounted emission controls, drive belts, oil filter, right engine mount, and throttle controls as required

(a) Pitch: 9.52 (0.375)

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**Chassis and Body Dimensions**

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Revised(\*)

Engine description/Carb.

Engine Code

**2.2L (135.0 in.3)  
EFI, EDF**

**2.5L (153.0 in.3)  
EFI, EDM**

**Engine - Valve System**

Hydraulic lifters (std., opt., n.a.)

Std.

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 (0.63 (1.4))

Forged steel 0.67 (1.5)

**Engine - Crankshaft**

Material & Mass (kg., (weight lbs.))

Nodular iron 15.19 (33.5)

Forged steel 16.52 (36.4)

End thrust taken by bearing (no.)

Three

Number of main bearings

Five

Seal (material, one,

Front

One piece

two piece design, etc.)

Rear

One piece

**Engine - Lubrication System**

Normal oil pressure (kPa (psi) at eng. rpm)

25 - 80 psi @ 3000

Type of intake (floating, stationary)

Stationary

Oil filter system (full flow, part, other)

Full flow

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

Type

nozzle

Opening pres. (kPa (psi))

Pre-chamber design

Fuel inj.

Manufacturer

pump

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

Super - charger - manufacturer

Charge cooler

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Engine Description/Carb.

Engine Code

**2.2L ( 135.0 in<sup>3</sup> ) EFI, EDF, 2.5 L (153.0 in. <sup>3</sup>) EFI, EDM**

**W/O 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.))		External	
Cooling System	With heater - L(qt.)	8.5 (9.0)	
	With air cond. - L(qt.)	8.5 (9.0)	
Capacity	Opt. equip. [specify - L(qt.)]	--	
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.)] (a)	(b) (c)	(b) (d),
	Width	533.4 (21.0)	
	Height	387.6 ( 15.26 )	
	Thickness	17.8 ( 0.7 )	
	Fins per inch	13	15 man., 16 or 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	1790
	Motor rating (wattage) (elec.)	65	130
	Motor switch (type & loc.)(elec.)	Thermistor, Water Box & A/C	
	Switch point (temp., press.)(elec.)	99 °C (210° F) (Low Speed) ; 110 °C (230° F) ( High Speed )	
	Fan shroud (material)	Metal	

(a) Mass (weight) shown is for assembly as purchased.

(b) Copper-brass

(c) 4.22 (9.3) EDF w/man. trans., 4.63 (10.2) all auto. trans.

(d) 4.55 (10.0) EDF w/man. trans., 4.74 (10.5) 41 w/EDF & auto. trans., 5.03 (11.1) EDM & 45 w/EDF & auto. trans.

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Car Line **PLYMOUTH RELIANT**

Model Year **1987** Issued **6-20-86** Revised (●) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

<b>2.2L (135.0 in<sup>3</sup>) / EFI EDF</b>	<b>2.5L (153.0 in<sup>3</sup>) / EFI EDM</b>
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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.	Bosch or Holly	
	Choke (type)	none	
	Idle spd. rpm (spec. neutral or drive and propane if used)	Manual	
		Automatic	700
Idle A/F mix		--	
Fuel Injection	Point of injection (no.)	throttle body (1)	
	Constant, pulse, flow	pulse	
	Control (electronic, mech.)	electronic	
	System pressure [kPa (psi)]	100 (14.5)	
Intake manifold heat control (exhaust or water thermostatic or fixed)		water	
Air cleaner type	Standard	concentric oil-wetted paper element	
	optional	--	
Fuel pump	Type (elec. or mech.)	electric	
	Location (eng., tank)	in fuel tank	
	Pressure range [kPa (psi)]	116-262 @12V & 15.0 PSI(a)	

**Fuel Tank**

Capacity [refill L (gallons)]		53 (14.0)
Location (describe)		forward of axle
Attachment		Galv. or terne plated strap to floor pan
Material & mass [kg (weight lbs.)]		terne plated steel 9.34 (20.6)
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	

(a) Flow Range (lbs./hr.)@ nominal regulated pressure.



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**EFI**  
**EDF**

**2.5L (153.0 in.<sup>3</sup>)**  
**EFI**  
**EDM**

**Vehicle Emission Control**

Exhaust Emission Control	Type (air injection, eng. modifications)		(a)
	Air injection	Pump or pulse	pulse
		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
		Number of	one
		Location(s)	below exhaust manifold
		Volume [L9in. <sup>3</sup> ]	1.23(75) 3WC + 0.74(45)ox.
		Substrate type	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	--
Electronic system	Vapor storage position		canister
	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 <sup>3</sup> conv. & air inj.	
Muffler no. & type (reverse flow, straight through separate resonator) Material & mass [kg. (weight lbs.)]		one reverse flow stainless steel 4.67(10.3)	
Resonator no. & type none		one straight through	
Exhaust pipe	Branch o. d., wall thickness		50.8 x 1.4 (2.00 x 0.055)
	Main o. d., wall thickness		47.8 x 1.4 (1.88 x 0.055)
	Material & mass [kg. (weight lbs.)]		stainless steel 5.30(11.7)(b) stainless steel 5.30(11.7)(c)
Intermed- iate pipe	o. d., & wall thickness		47.8 x 1.4 (1.88 x 0.047)
	Material & mass [kg. (weight lbs.)]		stainless steel 2.36(5.2) stainless steel 4.17 (9.2)
Tail pipe	o. d., & wall thickness		47.8 x 1.2 (1.88 x 0.047)
	Material & mass [kg. (weight lbs.)]		stainless steel (see muffler assembly)

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

(b) Includes 1.56 kg.(3.44 lbs.) - Federal, 1.69 kg.(3.72 lbs.) - California, substrate and stainless steel mesh

(c) Includes 1.69 kg.(3.72 lbs.) substrate and stainless steel mesh

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Engine Description/Carb.  
 Engine Code

2.2L (135.0 in <sup>3</sup> ) EFI EDF	2.5L (153.0 in <sup>3</sup> ) EFI EDM
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**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 (CHRYSLER)
Manual overdrive (std., opt., n.a.) (mfr.)	N.A.
Automatic (std., opt., n.a.) (mfr.)	optional (CHRYSLER)
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.)]		2.3L (4.81 pt.)
	Type recommended		API SF/CC
	SAE viscosity number	Summer	SAE 5W-30
		Winter	SAE 5W-30
		Extreme cold	SAE 5W-30

**Clutch (Manual Transmission)**

Make, type, engagement (describe) - (hydraulic, cable, rod)		Luk, dry disc cable	Fichtel and Sachs, dry disc cable
Assist (yes, no/percent)		no	
Type pressure plate springs		belleville	
Total spring load [N(lb.)]		4400 (989)	4700 (1057)
No. of clutch driven discs		one	
Clutch facing	Material	woven asbestos	
	Manufacturer	Textar	
	Part Number	A302297201	181862101001
	Rivets/Plate	16	
	Rivet Size	9.50 (0.374)	9.5 (.374)
	Outside & inside diameter	215 x 154 (8.46 x 6.06)	228 x 150 (8.98 x 5.91)
	Total eff. area [cm <sup>2</sup> (in <sup>2</sup> )]	353.6 (54.8)	438.0 (67.9)
	Thickness	3.45 (0.136)	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 Code

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**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 or Column Mounted
	Ltr./No. designation	PRND21
Gear ratios	R	2.10
	D	2.69, 1.55, 1.00
	L <sub>3</sub>	-
	L <sub>2</sub>	2.69, 1.55
	L <sub>1</sub>	2.69
Max. upshift speed - drive range [km/h (mph)]		113 (70)
Max. kickdown speed - drive range [km/h (mph)]		105 (65)
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	Mopar ATF Plus (Auto. Trans. Fluid - Type 7176)(b)
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std. Internal liquid

**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
Lubricant	Capacity [L (pt.)]	see transaxle
	Type recommended	see transaxle
	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)		2.51	2.78	3.02	3.22
No. of teeth	Pinion	14	20	21	20
	Ring gear or gear	49	61	60	61
Ring gear o.d.		197.46 (7.77)	184.53 (7.26)	187.40 (7.38)	187.40 (7.38)
Transaxle	Transfer gear ratio	-	0.91	1.06	1.06
	Final drive ratio	3.50	3.05	2.86	3.05

(a) Torque Converter, Transmission, and Differential

(b) Dexron II ATF may be used, only if Mopar ATF is not available.

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**EFI, EDF**

**2.5L (153.0 in.<sup>3</sup>)**  
**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	(a)	n.a.
		Right	(b)	n.a.
	Automatic transmission	Left	(a)	(c)
		Right	(b)	(d)
	Optional transmission	Left	-	-
		Right	-	-
Slip Yoke	Type		-	
	Number of teeth		-	
	Spline o.d.		-	
Universal joints	Make and mfg. no.	Inner	(e)	GKN-Eur: GI72 or Citroen or SSG #19
		Outer	(f)	(g)
	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: 24.2 x 333.2 (0.95 x 13.12) or Citroen: 22.9 x 333.3 (0.90 x 13.12) or SSG: 23.9 x 327.5 (0.94 x 12.89) or GKN-Eur 22.9 x 334.5 (0.90 x 13.17)
- (b) GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.10) or GKN-US: 40.5 x 603.3 x 3.72 (1.59 x 23.75 x 0.146) or Citroen: 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)
- (c) Citroen: 22.9 x 333 (0.90 x 13.1) or GKN-Eur: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.9 x 327.5 (0.94 x 12.98)
- (d) Citroen 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.106) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)
- (e) GKN-Eur: GI69 or Citroen or GKN-US C-2000 or SSG #19
- (f) GKN-Eur: 92 AC or Citroen or GKN-US C-2000 or SSG #23
- (g) GKN-Eur: 95AC or Citroen or SSG #23

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Body Type And/Or  
 Engine Displacement

Standard SDA	Heavy Duty SDB	Fleet SDD
--------------	----------------	-----------

**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	Direct-Hydraulic	Front & Rear: Gas Charged
	Make	Front: Delco or Monroe; Rear: Delco, Monroe or Maremont	
	Piston diameter	Front: 32 (1.26); Rear: 25.4 (1.0)	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		Lower control arm	
Travel	Full jounce	68 (2.68)	75 (2.93)
	Full rebound	106.2 (4.18)	99 (3.87)
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)	24.0 (140)
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material & bar diameter	A101 1090 Spring steel.	
		25.4 (1.00)	27.0 (1.06)

**Suspension - Rear**

Type and description		Trailing Flex Arm with Track Bar	
Drive and torque taken through		Arm	
Travel	Full jounce*	123.0 (4.84)	
	Full rebound	75.5 (2.97)	
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)	35 (200)
	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	22 (126)
	Insulators (type & material)	Compression: Rubber	
	If leaf	No. of leaves	-
		Shackle (comp. or tens.)	-
Stabilizer	Type (link, linkless, frameless)	Frameless ERW Tube	
	Material & bar diameter	80KSI HSLA Steel: 25.4 (1.0) O.D.	
Track bar (type)		Channel type	

\*from curb

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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. <sup>3</sup> )		--	
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 <sup>2</sup> (in. <sup>2</sup> )]* (F/R)		391 (60.6)	
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]** (F/R)		406.10 (62.95)	
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)		1349.32 (209.15)	
Rotor	Outer working diameter	F/R	front: 235.7 (9.28)
	Inner working diameter	F/R	front: 159.7 (6.29)
	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: 200 (7.87) x 37.62 (1.48)
	Type and material	F/R	rear: cast composite
Wheel cylinder bore		front: 54 (2.13); rear: 15.87 (0.625)	
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		no major adjustments	
Brake Lining	Front wheel (a)	Bonded or riveted (rivets/seq.)	bonded
		Rivet size	--
		Manufacturer	Chrysler
		Lining code *****	CW - K - FF
		Material	molded metallic
		**** Primary or out-board	3700 x 12.45 (5.74 x 0.490)
		Size Secondary or in-board	3700 x 12.45 (5.74 x 0.490)
		Shoe thickness (no lining)	5.30 (0.209)
	Rear wheel	Bonded or riveted (rivets/seq.)	riveted, 10/shoe
		Manufacturer	Bendix
		Lining code *****	--
		Material	rolled asbestos
		**** Primary or out-board	198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)
		Size Secondary or in-board	198.56 x 32.5 x 6.65 (7.82 x 1.28 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

**ALL**

**Tires and Wheels (Standard)**

Tires	Size (load range)		P175/80 R 13, 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)		870
Wheels	Type & material		steel disc
	Rim (size & flange type)		13 x 5.0 JB
	Wheel offset		40 (1.6)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 (3.94)
		Number & size	5-M 12 x 1.5mm
Spare	Tire and wheel (same, if other describe)		T115/70 D14 Compact Spare 14 x 4.0 T Steel Disc Wheel
	Storage position & location (describe)		Sedan: Vertical, Back of Rear Seat, Passenger Side Station Wagon: Horizontal, Below Cargo Floor

**Tires and Wheels (Optional)**

Size (load range)		P185/70 R 14, SL
Type (bias, radial, etc.)		Steel Radial
Wheel (type & material)		steel disc or cast aluminum
Rim (size, flange type and offset)		14 x 5.5 JJ 40 (1.6)
Size (load range)		P185/70 R 14, SL
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		Same as Road Tire
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		Sedan: Horizontal - Rear Floor Pan, below Cargo Floor

**Brakes - Parking**

Type of control		Foot Operated Pedal, Hand Release Lever
Location of control		Lower Left 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)	--

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Body Type And/Or  
 Engine Displacement

ALL

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

Manual (std., opt., n.a.)				standard	
Power (std., opt., n.a.)				optional	
Adjustable steering wheel (tilt, swing, other)		Type and description		tilt	
		(Std., opt., n.a.)		optional	
Wheel diameter (W9) SAE J1100		Manual		381 (15)	
		Power		381 (15)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.6 (38.1)	
		Curb to curb (l. & r.)		10.7 (35.2)	
	Inside rear	Wall to wall (l. & r.)		6.0 (19.8)	
		Curb to curb (l. & r.)		6.1 (20.1)	
Scrub Radius*				-9 (-0.35)	
Manual	Gear	Type		rack and pinion	
		Make		Cam Gears	
		Ratios	Gear	--	
			Overall	22:1	
	No. wheel turns (stop to stop)		4		
Power	Type (coaxial, linkage, etc.)		integral power unit		
	Make		TRW		
	Gear	Type	rack and pinion with integral power unit		
		Ratios	Gear	--	
			Overall	18.3:1	
	Pump (drive)		pulley and belt, off crankshaft		
	No. wheel turns (stop to stop)		3.2		
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 bearing		
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 (deg.)	0.4° Toe-in to 0.2° 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.)]	0.6° Toe-out to 0.6° Toe-in (b)
	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**

**Standard Cluster**

**Certified Cluster (a)**

Speedometer	Type	Magnetic torque drive	
	Trip odometer (std., opt., n.a.)	Standard	
EGR maintenance indicator		-	
Charge indicator	Type	Voltmeter	
	Warning device	-	
Temp. Indicator	Type	Magnetic gage	
	Warning device	-	
Oil pressure indicator	Type	Light	Magnetic gage
	Warning device	-	Light
Fuel indicator	Type	Magnetic gage	
	Warning device	-	
Wind shield wiper	Type (standard)	Electric 2-speed, Non-depressed park	
	Type (optional)	Electric 2-speed, Intermittent wipe	
	Blade length	406.4 (16)	
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	5413 (839)	
Windshield washer	Type (standard)	Electric (arm mounted)	
	Type (optional)	-	
	Fluid level indicator	Optional	
Horn	Type mm(in.)	102 mm (4.0 in.) seashell	
	Number used	1 Or 2 (low note - Std.)	
Other			

(a) Police package

(b) Measurements are measured in degrees, not mm (in.)

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Engine Description/Carb.  
 Engine Code

<b>2.2L (135.0 in.<sup>3</sup>)</b>	<b>2.5L (153.0 in.<sup>3</sup>)</b>
<b>EFI, EDF</b>	<b>EFI, EDM</b>

**Electrical - Supply System**

Battery	Make	Mopar	
	Model, std., (opt.)	Group 26 ( Group 34)	Group 34
	Voltage	12V	
	Amps at 0°F cold crank	335(500)	400(500)
	Minutes-reserve capacity	62 (110)	100(110)
	Amp/hr. - 20 hr. rate	42 (66)	60 (66)
	Location	Left front fender side shield	
Alternator	Manufacturer	Chrysler or Robert Bosch	
	Rating	90 Amp	
	Ratio (alt. crank/rev.)	2.4:1	
	Optional (type & rating)	-	
Regulator	Type	(a)	

**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.)	n.a.		
	Other (specify)	(a)		
Coil	Make	UTC	Prestolite	Diamond
	Model	5226865	5227372	5227252
	Current	3.0A		
		1.9A		
Spark plug	Make	Champion		
	Model	RN12YC		
	Thread (mm)	14 mm		
	Tightening torque [N-m (lb-ft)]	28 (20)		
	Gap	0.9 (0.035)		
	Number per cylinder	one		
Distributor	Make	Chrysler		
	Model	5226575	5226575	

**Electrical - Suppression**

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

(a) Engine control computer with electronic spark advance and voltage regulator

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Body Type

21, 41

45

**Body**

Structure		
Bumper system front - rear	Front - Urethane Fascia 4.2 kg. (9.25 lbs.) Steel 9.8 kg. (21.6 lbs.)	
	Rear - Urethane Fascia 4.05 kg. (8.9 lbs.) Steel 7.39 kg. (16.25 lbs.)	Rear - Urethane Fascia 3.5 kg. (7.6 lbs.) Steel 5.7 kg. (12.5 lbs.)
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)	Counterbalanced, clockspring
	Release control (internal, external)	Internal
Trunk-lid	Type (counterbalance, other)	Counterbalanced, Torsion bar
	Internal release control (elec., mech., n.a.)	--
Hatch-back lid	Type (counterbalance, other)	Gas Prop
	Internal release control (elec., mech., n.a.)	--
Station Wagon		
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 with zig zag helper elements
	3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Flex-O-Lator Mat
	Rear	Formed wire
	3rd seat	--

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Body Type

21	41	45
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**Restraint System**

Active restraint system	Standard/optional	Standard
	Type and description	Front: Outboard lap and shoulder belt Rear: Lap belt
	Location	Front: two Rear: three
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		
<b>Glass</b>	<b>SAE Ref. No.</b>			
Windshield glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S1	8069 (1251)		
Side glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S2	9227 (1430)	9647(1495)	15542(2409)
Backlight glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S3	4559 (707)	5139 (797)	5234 (811)
Total glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S4	21855 (3388)	22855(3543)	28845(4471)
Windshield glass (type)		Laminated safety glass		
Side glass (type)		Heat treated safety glass		
Backlight glass (type)		Heat treated safety glass		

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Body Type

All

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

Air conditioning (manual, auto, temp. control)		Manual - Opt.
Clock (digital, analog)		Digital - Std. with radio
Compass/thermometer		N.A.
Console (floor, overhead)		Full Floor - Opt. Mini - Std.
Defroster, elec. backlight		EBL - Opt.
Electronic	Diagnostic warning (integrated, individual)	N.A.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Tripminder (avg. spd. fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	
Fuel door lock (remote, key, electric)		N.A.
Lamps	Auto head on/off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map reading)	Std. - Medium
	Door lock, ignition	Ignition - Opt.
	Engine compartment	Opt.
	Fog	N.A.
	Glove compartment	Std. - Medium
	Trunk	Std. - Medium
	Other	Dome - Std.
	Shift indicator	Std. N.A. with automatic
Mirrors	Day/night (auto. man.)	Manual - Std.
	L.H. (remote, power, heated)	Remote - Std - Medium. Opt. - Low
	R.H. (convex, remote, power, heated)	Opt. - All
	Visor vanity (RH/LH, illuminated)	RH w/ visor vanity - Std. - Medium
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)	N.A.
	lumbar, hip, thigh support (power, manual)	
	reclining (driver, pass.)	
	memory (1-2 preset, recline)	
	Side windows	N.A.
Radio Systems	Vent windows	N.A.
	Rear windows	N.A.
	Antenna (location, whip, w/shield, power)	Whip - Std. - Right front fender
	AM, FM, stereo, tape, CB	Am Electronically Tuned Radio - Std. - Medium Opt - Low
Speaker (number, location) Premium sound		N.A.
Roof open air/ fixed (flip-up, sliding, "T")		N.A.
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		N.A.
Telephone system - mobile		N.A.
Theft protection-type		Inside Hood Release-Std. Glove Box Lock-Std. Locking Steering Column-Std. Anti-theft Labels-Std.

# MVMA Specifications Form

Passenger car

METRIC (U.S. Customary)

Cae and Body Dimensions

Car Line **PLYMOUTH RELIANT**

Model Year **1987**

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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	SAE Ref. No.	21	41	45
-----------	--------------	----	----	----

Width			
Tread (front)	W101	1462 (57.6)	
Tread (raer)	W102	1453 (57.2)	
Vehicle width	W103	1727 (68.0)	
Body width at SqRP (front)	W117	1725 (67.9)	
Vehicle width (front doors open)	W120	4019 (158.2)	3431 (135.1)
Vehicle width (rear doors open)	W121	3142 (123.7)	
Front fender overall width	W106	1709 (67.3)	
Rear fender overall width	W107	1727 (68.0)	
Tumble-home (deg.)	W122	23°	

Length			
Wheelbase	L101	2548 (100.3)	2550 (100.4)
Vehicle length	L103	4537 (178.6)	4533 (178.5)
Overhang (front)	L104	985 (38.8)	
Overhang (rear)	L105	1004 (39.5)	998 (39.3)
Upper structure length	L123	2937 (115.6)	
Rear wheel C/L "X" coordinate	L127	2636 (103.8)	2638 (103.9)
Cowl point "X" coordinate	L125	535 (21.1)	
Front end length at centerline	L126	1432 (56.4)	
Rear end length at centerline	L129	887 (34.9)	164 (6.5)

Height*				
Passenger distribution (front/rear)	PD 1,2,3	2 - Front 3 - Rear		
Trunk/cargo load		--		
Vehicle height	H101	1333 (52.5)	1343 (52.9)	1351 (53.2)
Cowl point to ground	H114	912 (35.9)		913 (35.9)
Deck point to ground	H138	887 (34.9)		858 (33.8)
Roker panel front to ground	H112	206 (8.1)		
Bottom of door closed front to ground	H133	251 (9.9)	257 (10.1)	
Rocker panel rear to ground	H111	178 (7.0)		
Bottom of door closed rear to ground	H135	--	246 (9.7)	
Windshield slope angle	H122	53°		
Backlight slope angle	H121	32°	34°	

Ground Clearance			
Front bumper to ground	H102	299 (11.8)	
Rear bumper to ground	H104	274 (10.8)	294 (11.6)
Bumper to ground [front at curb mass (wt.)]	H103	318 (12.5)	314 (12.4)
Bumper to ground [rear at curb mass (wt.)]	H105	356 (14.0)	376 (14.8)
Angle of approach (degrees)	H106	18°	
Angle of departure (degrees)	H107	16°	17°
Ramp breakover angle (degrees)	H147	11°	12°
Axle differential to ground (front/rear)	H153	N.A.	
Min. running ground clearance	H156	117 (4.6)	116 (4.6)
Location of min. run. ground clearance		Frt. Susp. C'mbr. Brkt. (left hand side)	

\* All vehicle height and ground clearance are made at the Manufacturer's Design Load Weight unless otherwise noted

Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**  
**Cae and Body Dimensions**

Car Line **PLYMOUTH RELIANT**

Model Year **1987**

Issued **6-20-86**

Revised(•)

See Key Sheets for Definitions

Body Type

SAE Ref. No.	21 Bucket	41 Bucket	45 Bucket
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**Front Compartment**

SqRP front, "X" coordinate	L31	1405 (55.3)	
Effective head room	H61	970 (38.2)	980 (38.6) 979 (38.5)
Max. eff. leg room (accelerator)	L34	1072 (42.2)	
SqRP to heel point	H30	264 (104)	
SqRP to heel point	L53	864 (34.0)	
Back angle	L40	24°	
Hip angle	L42	97°	
Knee angle	L44	127°	
Foot angle	L46	87°	
Design H - point front travel	L17	197 (7.8)	
Normal driving & riding seat track trvl.	L23	178 (7.0)	
Shoulder room	W3	1398 (55.0)	1407 (55.4)
Hip room	W5	1416 (55.7)	1412 (55.6)
Upper body opening to ground	H50	1222 (48.1)	
Steering wheel maximum diameter*	W9	381 (15.0)	
Steering wheel angle	H18	26°	
Accel. heel pt. to steering wheel center	L11	511 (20.1)	
Accel. heel pt. to steering wheel center	H17	641 (25.2)	
Steering wheel to C/L of thigh	H13	110 (4.3)	
Steering wheel torso clearance	L7	334 (13.1)	
Headlining to roof panel	H37	15 (0.6)	
Undepressed floor covering thickness	H67	22 (0.9)	

**Rear Compartment**

SqRP Point couple distance	L50	791 (31.1)	785 (30.9)
Effective head room	H63	940 (37.0)	960 (37.8) 977 (38.5)
Min. effective leg room	L51	913 (35.9)	907 (35.7)
SqRP (second to heel)	H31	281 (11.1)	
Knee clearance	L48	16 (0.6)	10 (0.4)
Compartment room	L3	631 (24.8)	684 (26.9)
Shoulder room	W4	1494 (58.8)	1421 (55.9)
Hip room	W6	1380 (54.3)	1428 (56.2)
Upper body opening to ground	H51	N.A.	1214 (47.8)
Back angle	L41	25°	
Hip angle	L43	86°	
Knee angle	L45	92°	91°
Foot angle	L47	127°	
Headlining to roof panel (second)	H38	14 (0.6)	15 (0.6) 9 (0.4)
Depressed floor covering thickness	H73	13 (0.5)	

**Luggage Compartment**

Usable luggage capacity [L (cu. ft.)]	V1	424 (15.0)	N.A.
Liftover height	H195	673 (26.5)	503 (19.8)

**Interior Volumes (EPA Classification)**

Vehicle class (subcompact, compact, etc.)		Mid - size	
Interior volume index (cu. ft.)		111.6	111.2 131.1
Trunk/cargo index (cu. ft.)		424 (15.039)	34.579

\* See Page 14

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

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**Car and Body Dimensions**

Car Line **PLYMOUTH RELIANT**

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Revised(\*)

See Key Sheets for Definitions

Body Type

SAE Ref. No.	21, 41	45
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**Station Wagon - Third Seat**

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	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	1747(68.8)
Cargo length (open second)	L201	845 (33.3)
Cargo length (closed front)	L202	1746 (68.7)
Cargo length (closed second)	L203	844 (33.2)
Cargo length at belt (front)	L204	1587 (62.5(a))
Cargo length at belt (second)	L205	815(32.1)
Cargo width (wheelhouse)	W201	980 (38.6)
Rear opening width at floor	W203	1332 (52.4)
Opening width at belt	W204	1317 (51.9)
Max. rear opening width above belt	W205	1000 (39.4)
Cargo height	H201	852 (33.5)
Rear opening height	H202	691 (27.2)
Tailgate to ground height	H250	--
Front seat back to load floor height	H197	480 (18.9) (a)
Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]	V2	1.917 (67.7)
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	0.028 (1.0) (b)
Cargo volume index-rear of 2-seat	V10	988 (34.9)

**Hatchback - Cargo Space**

Cargo length at front seatback height	L208	
Cargo length at floor (second)	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 <sup>3</sup> (ft. <sup>3</sup> )]	V3	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	
Cargo volume index-rear of 2-seat	V10	

**Aerodynamics\***

Wheel lip to ground, front	631 (24.8)	
Wheel lip to ground, rear	622 (24.5)	634 (24.96)
Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] (c)	1.97 (21.2)	2.02 (21.72)
Drag coefficient (Cd)	N.A.	

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

(a) Top of Head Restraint

(c) Models 22, 41: All tires, two mirrors, antenna and class II wheel covers

Model 45: All tires, two mirrors, antenna, luggage rack and class II wheel covers

\*EPA Loaded Vehicle Weight, Loading Conditions

(b) Under Cargo Cover Surface

Model 27: Two mirrors, antenna and class III wheel covers



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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 3211 mm (126.4 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	3452.4 (135.9)
	H82	236 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

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

21, 41	45
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**Lamps and Headlamps Shape\***

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	677.4 (26.7)	
		Lowest	--	
	Taillamp (SAE - H128)	Highest**	672.9 (26.5)	758.0 (29.8)
		Lowest	--	
	Sidemarker	Front	677.4 (26.7)	
		Rear	332.5 (13.1)	758.0 (29.8)
Distance from centerline of car to center of bulb or marker	Headlamp	Inside	--	
		Outside**	554.0 (21.8)	
	Taillamp	Inside	--	
		Outside**	569.2 (22.4)	774.0 (30.5)
	Directional	Front	751.0 (29.6)	
		Rear	569.2 (22.4)	777.0 (30.6)

Halogen headlamp (std., opt., n.a.)	Lo beam	Standard
	Hi beam	Standard
	Replaceable bulb	N.A.
	Shape	Rectangular
Headlamp other than above	Lo beam	--
	Hi beam	--
	Replaceable bulb	--
	Shape	--
	Type	--

\* Measured at curb mass (weight)

\*\* If single lamps are used enter here.

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Estimated

	Vehicle Mass (Weight)							
Model	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb.)**
	Front	Rear	Total	Pass. in Front		Pass. in Rear		
				Front	Rear	Front	Rear	
Reliant								
2.2L (135.0 in.3) EDF engine								
Two door - sedan	678	399	1077	50.2	49.8	19.0	81.0	1047
	(1495)	(880)	(2375)					(2309)
Four door - sedan	680	410	1090	50.2	49.8	19.0	81.0	1060
	(1499)	(903)	(2402)					(2336)
Reliant LE								
2.2L (135.0 in.3) EDF engine								
Two door - sedan	683	404	1087	50.2	49.8	19.0	81.0	1057
	(1505)	(891)	(2396)					(2330)
Four door - sedan	684	415	1099	50.2	49.8	19.0	81.0	1069
	(1507)	(915)	(2422)					(2356)
Station Wagon	678	447	1125	50.2	49.8	19.0	81.0	1095
	(1495)	(985)	(2480)					(2414)

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

\*\* Shipping mass (weight) definition-

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Estimated

**Optional Equipment Differential Mass (Weight)\***

Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
2.5L (153.0 in. <sup>3</sup> ) EDM	42 (93)	-2 (-5)	40 (88)	LE only and auto. trans.
Automatic transmission	18 (41)	-1 (-3)	17 (38)	
Air conditioning	26.8 (59)	-2.3 (-5)	24.5 (54)	
Power steering	9.1 (20)	0.4 (1)	9.5 (21)	
Power door locks	1.4 (3)	0.4 (1)	1.8 (4)	two - door
	2.3 (5)	1.3 (3)	3.6 (8)	four - door and station wagon
Bench seat	4.1 (9)	5.0 (11)	9.1 (20)	LE two door, automatic trans. only
	3.6 (8)	4.1 (9)	7.7 (17)	LE four door and station wagon automatic transmission only
Console	1.4 (3)	1.4 (3)	2.8 (6)	
AM Stereo/FM Stereo radio	1.7 (4)	2.3 (5)	4.0 (9)	Reliant
	0.4 (1)	1.4 (3)	1.8 (4)	Reliant LE
500 ampere battery	5.9 (13)	-0.9 (-2)	5.0 (11)	
Rear wiper washer	-0.9 (-2)	4.5 (10)	3.6 (8)	Station wagon only
Luggage rack	0.4 (1)	5.0 (11)	5.4 (12)	Station wagon only
Special sound insulation	0.4 (1)	2.3 (5)	2.7 (6)	Sedan
	0 (0)	10.9 (24)	10.9 (24)	Station wagon
Front & rear floor mats	2 (4)	1 (3)	3 (7)	
Tonneau cover	0 (0)	2.3 (5)	2.3 (5)	Station wagon
Conventional spare tire	-7 (-15)	15 (32)	8 (17)	Sedan
	5 (-10)	11 (24)	6 (14)	Station wagon
Undercoating	0.9 (2)	1.4 (3)	2.3 (5)	

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