

MOTOR VEHICLE

Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer AMERICAN MOTORS CORPORATION	Car Line ALLIANCE AND ENCORE	
Mailing Address 14250 PLYMOUTH ROAD DETROIT, MICHIGAN 48232	Issued OCTOBER 1, 1984	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.

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NOTE:

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

MVMA Specifications Form
Passenger Car

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (*) _____

FEATURE HIGHLIGHTS

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

BODY:

- . All exterior paints, straight shades and metallics, are Clearcoat - 1984 $\frac{1}{2}$
- . Pedestal Front seat track design - unique adjustment - 1983
- . Combination Front Seat: Forward/Rearward reclining back - two-way Rocker - 1983
- . Corrosion Program: Usage of one side, two side galvanized sheet metal for body panels - 1983

CHASSIS:

- . New Handling Package - Standard: Encore GS - Optional: Encore 3-Door*
- . New 14 inch Styled Aluminum Road Wheel - Standard: Encore GS
- Optional: Alliance/Encore*
- . New Sport Tuned exhaust - Standard on Encore GS

ENGINE:

- . Bendix Fuel Injection System - 1983 (49 - State), 1984 (Calif.)
- . 1.7L Engine option (except Convertible - Standard)* - New

ELECTRICAL:

- . Systems Sentry (Monitors Engine Oil Level, Engine Coolant Level, Brake Fluid and Windshield Washer Fluid Level) - 1984
- . Keyless Entry System (Infrared Coded Control) - 1984

OTHER:

- . Automatic transmission electronic control - 1983
- . New Alliance Convertible - Features New 1.7L Engine standard

*Except base models

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Car Line ALLIANCE - ENCORE (RENAULT/AMC)
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Car Models

Model Description 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)
ALLIANCE FWD	FALL 1982	<u>8596</u> SEDAN, 2-DOOR . Base..... (96-0) . Custom (L).. (96-3) . Deluxe (DL).. (96-6)	2/3	45.3 (100)
	FALL 1982	<u>8595</u> SEDAN, 4-DOOR . Base..... (95-0) . (Fleet Only) . Custom (L).. (95-3) . Deluxe (DL).. (95-6) . Luxury..... (95-8) (Limited)	2/3	45.3 (100)
	FALL 1984	<u>8597</u> Convertible, 2-Door . Custom (L) .. (97-3) . Deluxe (DL).. (97-6)	2/2	45.3 (100)
ENCORE FWD	FALL 1983	<u>8593</u> Hatchback, 3-Door . Base..... (93-0) . Custom (S).. (93-3) . Deluxe (LS).. (93-6) . Sport (GS).. (93-9)	2/3	45.3 (100)
	FALL 1983	<u>8599</u> Hatchback, 5-Door . Custom (S).. (99-3) . Deluxe (LS).. (99-6)	2/3	45.3 (100)

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N - m (lb. ft.)			
ALLIANCE 8596-0 8596-3 8595-0 8595-3	1.397 (85.2)	FI Sgl. Point	9.0	NA	NA	S	Manual 4-Speed Transaxle	3.3:1 (STD)
ENCORE 8593-0 8593-3 8599-3						S	Manual 5-Speed Transaxle	3.56:1 (OPT)
*(C3J52)								
ALLIANCE 8596-6 8595-6						1.397 (85.2)	FI Sgl. Point	9.0
ENCORE 8593-6 8599-6								
*(C3J52)								
ALLIANCE 8595-8 8597-3 8597-6	1.721 (103.7)	FI Sgl. Point	9.5	57 (77.5)	130 (96)	S	Manual 5-Speed Transaxle	3.31:1 (STD)
ENCORE 8593-9				5000 RPM	3000 RPM	S	Manual 5-Speed	3.56:1 (STD)
*(F3N04)								

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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 (in³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N - m (lb. ft.)			
ALLIANCE 8596-3 8596-6 8595-3 8595-6 ENCORE 8593-3 8593-6 8599-3 8599-6 *(F3N04) ALLIANCE 8596-0 8596-3 8596-6 8595-0 8595-3 8595-6 ENCORE 8593-0 8593-3 8593-6 8599-3 8599-6 *(C3J53)	1.721 (103.7)	FI Sgl. Point	9.5	57 (77.5) @ 5000 RPM	130 (96) @ 3000 RPM	S	Manual 5-Speed Transaxle	3.3:1 (OPT)
	1.397 (85.2)	FI Sgl. Point	9.0	NA	NA	S	Automatic 3-Speed Transaxle	3.56:1 (OPT)

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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 (in³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N - m (lb. ft.)			
ALLIANCE 8596-3 8596-6 8595-3 8595-6	1.721 (103.7)	FI Sgl. Point	9.5	57 (77.5) @ 5000 RPM	130 (96) @ 3000 RPM	S	Automatic 3-Speed Transaxle	3.56:1 (OPT)
ENCORE 8593-3 8593-6 8599-3 8599-6								
*(F3N05)								

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Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (•) _____

Engine Description/Carb.
 Engine Code

4-CYL. 1.4L (85.2 C.I.D.) 4-CYL. 1.7L (103.7 C.I.D.)
 SGL. POINT FUEL INJECTION-C3J SGL. POINT FUEL INJECTION-F3N

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	INLINE REAR TILTED 12° TRANSVERSE	
No. of cylinders	4	4
Bore	76mm (2.99 in)	81mm (3.19 in)
Stroke	77mm (3.03 in)	83.5mm (3.29 in)
Bore spacing (c / l to c / l)	85mm (3.346 in)	89mm (3.50 in)
Cylinder block material	Cast Iron w/Replaceable Wet Sleeves	Cast Iron
Cylinder block deck height	204mm (8.0315 in)	221mm (8.70 in)
Deck clearance (minimum) (above or below block)	0.3mm (0.0118 in) (Above Block)	1.88mm (0.074 in) (Below Block)
Cylinder head material	Cast Aluminum Alloy	Aluminum
Cylinder head volume (cm³)	39.05 cm³	
Head gasket thickness (compressed)	1.2mm (0.047 in)	1.22mm (0.048 in)
Minimum combustion chamber total volume (cm³)	37.2 cm³	44.29 cm³
Cyl. no. system (front to rear)*	L. Bank	Inline 4-3-2-1
	R. Bank	NA
Firing order	1-3-4-2	1-3-4-2
Recommended fuel (leaded, unleaded, diesel)	Unleaded	Unleaded
Fuel antiknock index (R + M) 2	87 (Min)	87 (Min)
Total dressed engine mass (wt) dry**	124.0 kg (273.42 lb)	125 kg (276 lb)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Alum. (AS12 UNG Y35) 299.371g (10.56 oz)	Alum. (AS12 UN) 354.369 (12.5 oz)
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Engine - Camshaft

Location	CYLINDER BLOCK	CYLINDER HEAD
Material & mass kg (weight, lbs.)	Cast Iron 1.637 kg (3.61 lb)	Cast Iron 2.067 kg (4.56 lb)
Drive type	Chain / belt	Cogged Belt
	Width / pitch	19mm (0.75 in) / 9.525mm (.364 in)

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

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

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Engine Code

4-CYL. 1.4L (85.2 C.I.D.)
SGL. POINT FUEL INJECTION-C3J

4-CYL. 1.7L (103.7 C.I.D.)
SGL. POINT FUEL INJECTION-F3N

Engine - Valve System

Hydraulic lifters (std., opt., NA)	SOLID	N/A
Valves	4/4	4/4
Head O.D. intake / exhaust	34.2 / 28.8 (mm)	38.1 / 32.5 (mm)

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	Forged Steel 0.57 kg (1.25 lb)	Forged Steel 0.64 kg (1.4 lb)
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Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]	Material* 10.82 kg (23.86 lb)	Material* 11.79 kg (26 lb)
End thrust taken by bearing (no.)	2	2
Number of main bearings	5	5

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	100 kPa (14.5 psi) @ 1000 rpm	200 kPa (29psi) @ 1000 rpm
Type oil intake (floating, stationary)	Stationary	Stationary
Oil filter system (full flow, part, other)	Full Flow	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.79L (4.0 qt)	5.0L (5.2 qt)

Engine - Diesel Information

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

Engine - Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

*Nodular Cast Iron

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Engine Description/Carb.
 Engine Code

4-CYL. 1.4L (85.2 C.I.D.)
SINGLE POINT FUEL INJECTION
C3J - WITH MANUAL TRANSMISSION

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Std - Pressurized Coolant Recovery	
Coolant fill location (rad., bottle)	Radiator and Bottle	
Radiator cap relief valve pressure (kPa (psi))	120.0 kPa (17 psi)	
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	86.7° C (188° F)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	25L/min (6.7 gal/min)
	Number of pumps	One
	Drive (V-belt, other)	V-Belt
	Bearing type	Ball
By-pass recirculation (type (inter., ext.))	Internal	
Cooling system capacity	With heater-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	With air cond.-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	Opt. equipment (specify-L(qt.))	
Water jackets full length of cyl. (yes, no)	No	
Water all around cylinder (yes, no)	Yes	
Radiator core	Describe (type, material, no. of rows)	Cross-flow: Tube + Fin - Alum 2-Row (Man. Trans. - Std.), Tube + Spacer - Alum 1-Row (with A/C or HD Cooling Opt.)
	Std., A/C, HD	Std. with Man. Trans. With A/C or HD Cooling Opt
	Width	400mm (15.7 in) 440mm (17.3 in)
	Height	400mm (15.7 in) 400mm (15.7 in)
	Thickness	34mm (1.34 in) 38mm (1.50 in)
	Fins per inch	17.5 17
Fan	Std., elec., opt.	Electric - Std Electric - Std
	Number of blades & type (flex, solid, material)	10-Blades - Solid Plastic 4-Blades - Solid Metal
	Diameter & projected width	270 mm (10.6 in) 356 mm (14 in)
	Ratio (fan to crankshaft rev.)	N.A. N.A.
	Fan cutout type	Thermal Switch - Remote Thermal Switch - Remote
	Drive (type (direct, remote))	Direct Direct
	RPM at idle (elec.)	2025 +/- 175 2025 +/- 175
	Motor rating (wattage) (elec.)	80W 120W
	Motor switch (type & location) (elec.)	Thermal Switch - Radiator Outlet Tank
	Switch point (temp., pressure) (elec.)	Fan "ON" 87.8° C (190° F) - Fan "OFF" 76.7° C (170° F)
	Fan shroud (material)	with A/C or HD Cooling Only - Plastic

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Model Year 1985 Issued 10-1-84 Revised (•) _____

Engine Description/Carb.
Engine Code

4-CYL. 1.4L (85.2 C.I.D.)
SINGLE POINT FUEL INJECTION
C3J - WITH AUTOMATIC TRANSMISSION

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Std - Pressurized Coolant Recovery	
Coolant fill location (rad., bottle)	Radiator and Bottle	
Radiator cap relief valve pressure [kPa (psi)]	120.0 kPa (17 psi)	
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	86.7° C (188° F)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	25L/min (6.7 gal/min)
	Number of pumps	One
	Drive (V-belt, other)	V-Belt
	Bearing type	Ball
By-pass recirculation (type (inter., ext.))	Internal	
Cooling system capacity	With heater-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	With air cond.-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	Opt. equipment (specify-L(qt.))	
Water jackets full length of cyl. (yes, no)	No	
Water all around cylinder (yes, no)	Yes	
Radiator core	Describe (type, material, no. of rows)	Cross-flow: Tube + Spacer - Alum 1-Row (Auto Trans.-Std.), Tube + Spacer - Alum 1-Row (with A/C or HD Cooling Opt)
	Std., A/C, HD	Std with Auto Trans with A/C or HD Cooling Opt
	Width	360mm (14.2 in) 440mm (17.3 in)
	Height	400mm (15.7 in) 400mm (15.7 in)
	Thickness	32mm (1.26 in) 38mm (1.50 in)
	Fins per inch	17 17
Fan	Std., elec., opt.	Electric - Std Electric - Std
	Number of blades & type (flex, solid, material)	10-Blades - Solid Plastic 4-Blades - Solid Metal
	Diameter & projected width	270mm (10.6 in) 356mm (14 in)
	Ratio (fan to crankshaft rev.)	N.A. N.A.
	Fan cutout type	Thermal Switch - Remote Thermal Switch - Remote
	Drive (type (direct, remote))	Direct Direct
	RPM at idle (elec.)	2025 +/- 175 2025 +/- 175
	Motor rating (wattage) (elec.)	80W 120W
	Motor switch (type & location) (elec.)	Thermal Switch - Radiator Outlet Tank
	Switch point (temp., pressure) (elec.)	Fan "ON" 87.8° C (190° F) - Fan "OFF" 76.7° C (170° F)
	Fan shroud (material)	with A/C or HD Cooling Only - Plastic

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Engine Description/Carb.
 Engine Code

4-CYL. 1.7L (103.7 C.I.D.)
 SINGLE POINT FUEL INJECTION
 F3N - WITH MANUAL TRANSMISSION

Engine - Cooling System

Coolant recovery system (std., opt., n.s.)	Std - Pressurized Coolant Recovery Bottle	
Coolant fill location (rad., bottle)	Bottle	
Radiator cap relief valve pressure (kPa (psi))	120.0 kPa (17 psi)	
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	89° C (192° F)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	32L/min (8.5 gal/min)
	Number of pumps	One
	Drive (V-belt, other)	Poly V-Belt
	Bearing type	Roller-Ball Bearing
By-pass recirculation (type (inter., ext.))	Internal	
Cooling system capacity	With heater-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	With air cond.-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle
	Opt. equipment (specify-L(qt.))	
Water jackets full length of cyl. (yes, no)	Yes	
Water all around cylinder (yes, no)	No	
Radiator core	Describe (type, material, no. of rows)	Cross-flow: Tube + Fin - Alum 1-Row (Man Trans - Std), Tube + Spacer - Copper Brass - 1-Row (with A/C or HD Cool. Opt.
	Std., A/C, HD	Std with Man Trans with A/C or HD Cooling Opt
	Width	400mm (15.7 in) 440mm (17.3 in)
	Height	400mm (15.7 in) 400mm (15.7 in)
	Thickness	34mm (1.34 in) 18mm (0.7 in)
	Fins per inch	17.5 23
Fan	Std., elec., opt.	Electric - Std Electric - Std
	Number of blades & type (flex, solid, material)	10 - Blades - Solid Plastic 4- Blades - Solid Metal
	Diameter & projected width	270mm (10.6 in) 356mm (14 in)
	Ratio (fan to crankshaft rev.)	N.A. N.A.
	Fan cutout type	Thermal Switch - Remote Thermal Switch - Remote
	Drive (type (direct, remote))	Direct Direct
	RPM at idle (elec.)	2025 +/- 175 2025 +/- 175
	Motor rating (wattage) (elec.)	80W 120W
	Motor switch (type & location) (elec.)	Thermal - Radiator Outlet Tank
	Switch point (temp., pressure) (elec.)	Fan "ON" 87.8° C (190° F) - Fan "OFF" 76.7° C (170° F)
	Fan shroud (material)	with A/C or HD Cooling Only - Plastic

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Engine Description/Carb.
 Engine Code

4-CYL. 1.7L (103.7 C.I.D.)
 SINGLE POINT FUEL INJECTION
 F3N - WITH AUTOMATIC TRANSMISSION

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std - Pressurized Coolant Recovery Bottle	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure [kPa (psi)]		120.0 kPa (17 psi)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at °C (°F)	89° C (192° F)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	32L/min (8.5 gal/min)	
	Number of pumps	One	
	Drive (V-belt, other)	Poly V-Belt	
	Bearing type	Roller-Ball Bearing	
By-pass recirculation [type (inter., ext.)]		Internal	
Cooling system capacity	With heater-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle	
	With air cond.-L(qt.)	6.6L (7 qt) - Incl. Coolant Recovery Bottle	
	Opt. equipment [specify-L(qt.)]		
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		No	
Radiator core	Describe (type, material, no. of rows)	Cross-flow: Tube+ Spacer - Copper Brass 1-Row (Auto Trans - Std), Tube + Spacer - Copper Brass 1-Row (with A/C or HD Opt)	
	Std., A/C, HD	Std with Auto. Trans.	With A/C or HD Cooling Opt
	Width	360mm (14.2 in)	440mm (17.3 in)
	Height	400mm (15.7 in)	400mm (15.7 in)
	Thickness	18mm (0.7 in)	18mm (0.7 in)
	Fins per inch	20	23
Fan	Std., elec., opt.	Electric - Std	Electric - Std
	Number of blades & type (flex, solid, material)	10-Blades - Solid Plastic	4-Blades - Solid Metal
	Diameter & projected width	270mm (10.6 in)	356mm (14 in)
	Ratio (fan to crankshaft rev.)	N.A.	N.A.
	Fan cutout type	Thermal Switch - Remote	Thermal Switch - Remote
	Drive [type (direct, remote)]	Direct	Direct
	RPM at idle (elec.)	2025 +/- 175	2025 +/- 175
	Motor rating (wattage) (elec.)	80W	120W
	Motor switch (type & location) (elec.)	Thermal - Radiator Outlet Tank	
	Switch point (temp., pressure) (elec.)	Fan "ON" 87.8° C (190° F) - Fan "OFF" 76.7° C (170° F)	
Fan shroud (material)		with A/C or HD Cooling Only - Plastic	

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Engine Description/Carb.
 Engine Code

4-CYL. 1.4L (85.2 C.I.D.) SGL. POINT FUEL INJECTION-C3J	4-CYL. 1.7L (103.7 C.I.D.) SGL. POINT FUEL INJECTION-F3N
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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection - Single Point Bendix - 49 - States & California	
Carburetor	Mtgr.	Bendix TBI	
	Choke (type)	Automatic	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Not Adjustable
		Automatic	
Idle A/F mix.			
Fuel injection	Point of injection (no.)	One	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure (kPa (psi))	117.2 - 1.22 kPa (17.0 - 17.7 psi)	
Intake manifold heat control (exhaust or water thermostatic or fixed)			
Air cleaner type	Standard	Dry Paper Element	
	Optional		
Fuel pump	Type (elec. or mech.)	Electrical	
	Location (eng., tank)	In Tank	
	Pressure range (kPa (psi))	250.0 kPa (36.25 psi)	

Fuel Tank

Capacity (refill L (gallons))		47L (12.5 U.S. gal)
Location (describe)		Under Rear Floor Pan
Attachment		Bolts
Material		Terne Plate Steel
Filler pipe	Location & material	Right Rear Quarter - Lead Dip Steel
	Connection to tank	Rubber
Fuel line (material)		Steel Tube
Fuel hose (material)		Elastomer
Return line (material)		Steel Tube
Vapor line (material)		Steel Tube
Extended range tank	Opt., n.a.	N.A.
	Capacity (L (gallons))	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	N.A.
	Capacity (L (gallons))	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (*)

Engine Description/Carb.
Engine Code

4-CYL. 1.4L (85.2 C.I.D.) SGL. POINT FUEL INJECTION-C3J	4-CYL. 1.7L (103.7 C.I.D.) SGL. POINT FUEL INJECTION-F3N
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EFI - CAT - EGR - EGS	
	Air Injection	Pump or pulse	Not Used	
		Driven by		
		Air distribution (head, manifold, etc.)		
		Point of entry		
	Exhaust Gas Recircula- tion	Type (controlled flow, open orifice, other)	Controlled	
		Exhaust source	Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Manifold	
	Catalytic Converter	Type	TWC	
		Number of	ONE	
Location(s)		Under Floor		
Volume (L (in ³))		1.507L (93 in ³)	1.820L (110 in ³)	
Substrate type		Monolithic		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Fixed Orifice, Vent to Intake	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges (to intake manifold, other)		Intake Manifold/Throttle Body	
	Air inlet (breather cap, other)		Not Used	
Evapora- tive Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	N.A.	
	Vapor storage provision		Carbon Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator)		One, Reverse Flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	50.8mm (2.00 in) o.d., 1.5mm (.06 in) w/t
	Material	Stainless Steel
Inter- mediate pipe	o.d. & wall thickness	44.45mm (1.75 in) o.d., 1.83mm (.072 in) w/t
	Material	Aluminized Steel
Tail pipe	o.d. & wall thickness	44.45mm (1.75 in) o.d., 1.83mm (.072 in) w/t - Std / *
	Material	Aluminized Steel - Std / *

*With optional Sport Muffler: o.d. & wall thickness: 50.8mm (2.00 in) o.d., 1.83 mm (.072 in) w/t
(Models 8593 & 8599 Only)

Material: Chrome Plated low Carbon Steel

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 Engine Code

4-CYL. 1.4L (85.2 C.I.D.) SGL. POINT FUEL INJECTION-C3J	4-CYL. 1.7L (103.7 C.I.D.) SGL. POINT FUEL INJECTION-F3N
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Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.)	N.A.	N.A.
Manual 4-speed (std., opt., n.a.)	Transaxle - Std	N.A.
Manual 5-speed (std., opt., n.a.)	Transaxle - Opt.	Transaxle - Std.
Manual overdrive (std., opt., n.a.)	N.A.	N.A.
Automatic (std., opt., n.a.)	Transaxle - Opt.	Transaxle - Opt.
Automatic overdrive (std., opt., n.a.)	N.A.	N.A.

Manual Transmission/Transaxle

Number of forward speeds		Four	Five
Transmission ratios	In first	3.73:1	3.73:1
	In second	2.05:1	2.05:1
	In third	1.32:1	1.32:1
	In fourth	0.90:1	0.90:1
	In fifth		0.79:1
	In overdrive		
	In reverse	3.54:1	3.54:1
Synchronous meshing (specify gears)			
Shift lever location		Floor Mount	Floor Mount
Lubricant	Capacity (L (pt.))	3.25L (6.87 pt)	3.4L (7.18 pt)
	Type recommended	API GL-5	API - GL-5
	SAE viscosity number	Summer 75W - 90	75W - 90
		Winter 75W - 90	75W - 90
		Extreme cold 75W - 90	75W - 90

Clutch (Manual Transmission)

		1.4L Engine	1.7L Engine
Make, type, engagement (describe)		Verto Dry Disc, 180 CP 310 Self Adjusting, Cable	Verto Dry Disc, 200 DC 410 Self Adjusting, Cable
Type pressure plate springs		Diaphragm Spring	Diaphragm Spring
Total spring load [N (lb.)]			
No. of clutch driven discs		One	One
Clutch facing	Material	Asbestos Based Friction Mat'l	Non-Asbestos Based Friction Mat'l
	Manufacturer	Verto	Verto
	Part number		
	Rivets/plate		
	Rivet size		
	Outside & inside dia.	181.5mm o.d. - 127mm i.d.	200mm o.d. - 137mm i.d.
	Total eff. area [cm ² (in. ²)]	132 cm ² (20.46 in ²)	167 cm ² (25.89 in ²)
	Thickness	7.7mm (0.303 in)	7.7mm (0.303 in)
Engagement cushion method		Damper Hub	
Release bearing	Type & method of lubrication	Sealed Ball Bearing	
Torsional damping	Method: springs, friction material	Coil Spring	

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METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (e)

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Engine Code

4-CYL. 1.4L (85.2 C.I.D.)
SGL. POINT FUEL INJECTION-C3J

4-CYL. 1.7L (103.7 C.I.D.)
SGL. POINT FUEL INJECTION-F3N

Automatic Transmission/Transaxle

Trade name	RENAULT	
Type and special features (describe)	MBI	
Selector	Location	Floor Mounted
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	R	2
	D	2.5, 1.5, 1
	L ₃	- -
	L ₂	2.5, 1.5
	L ₁	2.5
Max. upshift speed - drive range [km/h (mph)]		108 km/h (67 mph)
Max. kickdown speed - drive range [km/h (mph)]		94 km/h (58 mph)
Min. overdrive speed [km/h (mph)]		N.A.
Torque converter	Number of elements	Three
	Max. ratio at stall	2.19
	Type of cooling (air, liquid)	Air & Oil
	Nominal diameter	216mm
Lubricant	Capacity [refill L (pt.)]	4.3L (9.09 pt, U.S. liq.)
	Type Recommended	Dexron II D - Mobil ATF 220
Oil cooler (std., opt., NA, internal, external, air, liquid)		Standard--Oil to Coolant Radiator Tank Intercooler

Axle or Front Wheel Drive Unit

Type (front, rear)	Front Wheel Drive	
Description		
Limited slip differential (type)		
Drive pinion offset		
Drive pinion (type)		
No. of differential pinions		
Pinion / differential adjustment (shim, other)		
Pinion / differential bearing adjustment (shim, other)		
Driving wheel bearing (type)		
Lubricant	Capacity [L (pt.)]	
	Type recommended	
	SAE viscosity number	Summer
		Winter
		Extreme cold

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

Axle ratio (or overall top gear ratio)		3.29	3.56	3.56	3.29	3.56	3.56
No. of teeth	Pinion	17	16	16	17	16	16
	Ring gear or gear	56	57	57	56	57	57
Ring gear o.d.							
Transaxle	Transfer gear ratio			0.92-25-23			0.83-24-29
	Final drive ratio	2.96	2.81	3.27	2.60	2.81	2.95
		MAN	MAN	AUTO	MAN	MAN	AUTO
		4-Spd.	5-Spd.	3-Spd.	5-Spd.	5-Spd.	3-Spd.

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Engine Code

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Axle Shafts - Front Wheel Drive

Number used		TWO	
Type (straight, solid bar, tubular, etc.)		Left	Two (2) Constant Velocity Joints - Tubular Connection
		Right	Two (2) Constant Velocity Joints - Tubular Connection w/ Damper
Outer diam. x length* x wall thickness	Manual transmission	Left	35 x 541 x 4mm
		Right	35 x 488 x 4mm
	Automatic transmission	Left	35 x 541 x 4mm
		Right	35 x 488 x 4mm
	Optional transmission	Left	
		Right	
Slip yoke	Type		
	Number of teeth		
	Spine o.c.		
Universal joints	Make and mfg. no.	Inner	G1 69 Tri Axis Renault
		Outer	GE 86 Renault
	Number used	Two (2) Half-Shafts/Vehicle	
	Type, size, plunge	Inner	
		Outer	
	Attach (u-bolt, clamp, etc.)		
	Bearing	Type (plain, anti-friction)	
		Lubrication (fitting, prepack)	Permanently Lubricated
Drive taken through (torque tube, arms or springs)		Lower Control Arms	
Torque taken through (torque tube, arms or springs)		Lower Control Arms	

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

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Body Type And/Or
 Engine Displacement

4-CYL. 1.4L (85.2 C.I.D.) 4-CYL. 1.7L (103.7 C.I.D.)
 SGL. POINT FUEL INJECTION-C3J SGL. POINT FUEL INJECTION-F3N

Suspension - General

Car leveling	Std. opt. n.a.	N.A.
	Type (air, hyd., etc.)	
	Manual/auto controlled	
Provision for brake dip control		
Provision for accel. squat control		
Provisions for car jacking		Body Pick-Up Slots on Rocker Panel
Shock absorber (front & rear)	Type	Front: MacPherson Strut Rear: Twin Tube Hydraulic
	Make	Deico - Monroe - Allinquant
	Piston diameter	Front: 32mm Rear: 25mm
	Rod diameter	Front: 20mm Rear: 12mm

Suspension - Front

Type and description		MacPherson Strut Type - Off Center Spring Negative Ground Offset
Drive and torque taken through		122mm
Travel	Full jounce	65mm
	Full rebound	
Spring	Type (coil, leaf, other) & material	Coil - SAE 9260 - Alloy Steel (Cr - Si)
	Insulators (type & material)	Upper - Rubber
	Size (coil design height & i.d., bar length & dia.)	I.D. - From 142mm to 147mm Wire Dia: 11.2mm to 12.5mm (Opt: 12.04mm to 12.13mm) 5.5 Coils or 6.5 Coils
	Spring rate [N/mm (lb./in.)]	Std: 9.6 to 12.3 (55 to 70) - Opt: 15.8 to 16.7 (90 to 95)
	Rate at wheel [N/mm (lb./in.)]	Std: 12 to 15 (68 to 86) - Opt: 20 to 21 (114 to 120)
Stabilizer	Type (link, linkless, frameless)	Linkless to Lower Control Arm
	Material & bar diameter	Std: 23mm - Steel -- Opt: 24mm - Steel

Suspension - Rear

Type and description		Independent Sprung Wheels on Trailing Arms Unique Tubular Suspension Arms Pivoting on Bushings
Drive and torque taken through		
Travel	Full jounce	178mm
	Full rebound	72mm
Spring	Type (coil, leaf, other) & material	Torsion Bar - Alloy Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	Std: 18.5mm Dia - Length 645mm Opt: 19.5mm Dia - Length 645mm
	Spring rate [N/mm (lb./in.)]	Std: 11 to 14 (63 to 80) - Opt: 14 to 23 (80 to 131)
	Rate at wheel [N/mm (lb./in.)]	Std: 11 to 14 (63 to 80) - Opt: 14 to 23 (80 to 131)
	Insulators (type & material)	Rubber Bushing
Stabilizer	Type (link, linkless, frameless)	Linkless to Trailing Arm
	Material & bar diameter	Std: 15mm - Alloy Steel -- Opt: 23mm - Alloy Steel
Track bar (type)		None

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4-CYL. 1.4L (85.2 C.I.D.) SGL. POINT FUEL INJECTION- C3J	4-CYL. 1.7L (103.7 C.I.D.) SGL. POINT FUEL INJECTION- F3N
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Brakes - Service

Description			Hydraulic - Disc-type Front Brakes, Drum-type Rear Brakes with Vacuum Power Assist		
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)		Twin Combination Pressure Differential Warning and Proportioning Valve		
			Standard		
Power brake (std., opt., n.a.)			Standard		
Booster type (remote, integral, vac., hyd., etc.)			Vacuum		
Vacuum source (inline, pump, etc.)			Not Applicable		
Vacuum reservoir (volume in. ³)			Not Applicable		
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			Not Applicable		
Anti-skid device type (std., opt., n.a.) (F/R)			N.A.		
Effective area (cm ² (in. ²))*			407.0 cm ² (63.1 in ²)		
Gross lining area (cm ² (in. ²))* (F/R)			148.4 cm ² (23.0 in ²) / 291.6 cm ² (45.2 in ²)		
Swept area (cm ² (in. ²))* (F/R)			1456.2 cm ² (225.8 in ²) / 434.8 cm ² (67.4 in ²)		
Rotor	Outerworking diameter	F/R	Front	238.00mm (9.4 in)	
	Inner working diameter	F/R	Front	146.0mm (5.75 in)	
	Thickness	F/R	Front	12.0mm (.47 in)	
	Material & type (vented/solid)	F/R	Front	Cast Iron - Solid	
Drum	Diameter & width	F/R	Rear	203.2mm (8.0 in)	
	Type and material	F/R	Rear	Composit - Cast Iron/Steel	
Wheel cylinder bore			48.0mm (1.89 in) - Front / 20.6mm (.81 in) - Rear		
Master cylinder	Bore/stroke	F/R	21.0mm (.83 in) / 30.0mm (1.18 in)		
Pedal arc ratio			4.0:1		
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			167.0 kPa (1150 psi)		
Lining clearance			(F/R)	None Set - Low Drag / .25mm (0.010 in)	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Riveted 5/seg.	
		Rivet size		7.5mm x 7.56mm (.297 in x .298 in)	
		Manufacturer		Assembly - Kelsey Hayes / Lining - Bendix	
		Lining code		X0 - EE	
		Material		7161A	
		****	Primary or out-board	110 x 38.9 x 11.2mm (4.3 x 1.5 x .44 in)	
		Size	Secondary or in-board	110 x 38.9 x 11.2mm (4.3 x 1.5 x .44 in)	
		Shoe thickness (no lining)		4.65mm (.18 in)	
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted 10 / Seg	
		Manufacturer		Bendix	
		Lining code		M0 - FF	
		Material		3152F	
		****	Primary or out-board	214.0 x 34.0 x 4.16mm (8.43 x 1.34 x .16 in)	
		Size	Secondary or in-board	214.0 x 34.0 x 4.16mm (8.43 x 1.34 x .16 in)	
		Shoe thickness (no lining)		1.89mm (.07 in)	

*Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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Body Type And/Or
 Engine Displacement

4-CYL. 1.4L (85.2 C.I.D.)
 SGL. POINT FUEL INJECTION-C3J

4-CYL. 1.7L (103.7 C.I.D.)
 SGL. POINT FUEL INJECTION-F3N

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80R13 - Load Range "S" 2-Ply Tread	
	Type (bias, radial, etc.)		Radial Glass Belt	
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	207 kPa (30 psi)	
		Rear (kPa (psi))	207 kPa (30 psi)	
Wheels	Rev./mile-at 70 km/h (45 mph)			
	Type & material		Semi-Styled Stamped Steel Wheel	
	Rim (size & flange type)		13 in x 5.00 in "SJB" Flat Hump	
	Wheel offset		41mm	
	Attachment	Type (bolt or stud)	Studs and Nuts	
		Circle diameter	100mm	
Spare	Number & size		4 - M12 - 1.5	
	Tire and wheel (same, if other describe)		Polyspare P155/80D13	
	Storage position & location (describe)		Trunk - Wheel Well in Rear Floor Pan	

Tires And Wheels (Optional)

Size (load range, ply)		P175/70R13 - Load Range "S" 2-Ply Tread	
Type (bias, radial, etc.)		Radial Steel Belt	
Wheel (type & material)		Semi-Styled Stamped Steel Wheel	
Rim (size, flange type and offset)		13 in x 5.00 in "SJB" Flat Hump	
Size (load range, ply)		P185/60R14 - Load Range "S"	
Type (bias, radial, etc.)		Radial Steel Belt	
Wheel (type & material)		Styled Cast Aluminum Alloy	
Rim (size, flange type and offset)		14 in x 5.50 in "JJ" - 36mm 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)			

Brakes - Parking

Type of control		Hand Operated Lever	
Location of control		On Floor Between Seats	
Operates on		Rear Wheels	
If separate from service brakes	Type (internal or external)	NA	
	Drum diameter	NA	
	Lining size (length x width x thickness)	NA	

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Model Year 1985 Issued 10-1-84 Revised (●)

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Engine Displacement

4-CYL. 1.4L (85.2 C.I.D.) SGL. POINT FUEL INJECTION-C3J	4-CYL. 1.7L (103.7 C.I.D.) SGL. POINT FUEL INJECTION-F3N
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Steering

Manual (std., opt., n.a.)		Standard (Except Model 8597 - 6)		
Power (std., opt., n.a.)		Optional (Std on Model 8597 - 6)		
Adjustable steering wheel (tilt, swing, other)	Type and description	N.A.		
	(Std., opt., n.a.)			
Wheel diameter	Manual	380mm		
	Power	380mm		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	9.97 (32.71) & 9.96 (32.67)	
		Curb to curb (l. & r.)	9.24 (30.31) & 9.22 (30.26)	
	Inside rear	Wall to wall (l. & r.)	4.55 (14.94)	
		Curb to curb (l. & r.)	4.63 (15.19)	
Scrub Radius				
Manual	Gear	Type	Rack and Pinion	
		Make	Renault	
		Ratios	Overall	21.8:1
	No. wheel turns (stop to stop)		Four (4)	
	Power	Type (coaxial, linkage, etc.)		Rack and Pinion
Make		TRW		
Gear		Type	Integral Valve	
		Ratios	Gear	3.2
		Overall		17.7:1
Pump (drive)		Crankshaft Driven		
No. wheel turns (stop to stop)				
Linkage	Type		Adjustable Tie Rods	
	Location (front or rear of wheels, other)		Rear	
	Drag links (trans. or longt.)			
	Tie rods (one or two)		Two (2)	
Steering axis	Inclination at camber (deg.)		7-1/2° at 1/16° Camber	
	Bearings (type)	Upper	Bottom of Spring - Ball Bearing	
		Lower	Ball Joint	
		Thrust		
	Steering spindle & joint type		Forged Knuckle	
Wheel spindle	Diameter	Inner bearing	35 - 65 x 35 Double Tapered Bearing	
		Outer bearing		
	Thread (size)		M20 - 1.5	
	Bearing (type)		Double Tapered Bearing - Permanently Sealed and Lubricated	

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SGL. POINT FUEL INJECTION
F3N

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$+1\frac{1}{2}^{\circ} \pm 3/4^{\circ}$	Not Adjustable
		Camber (deg.)	$+1/16^{\circ} \pm 1/4^{\circ}$	Not Adjustable
		Toe-in (outside track-mm (in.))	-2.2 to -6.6mm (-0.087 to -0.259 in)	Toe-Out
	Service reset*	Caster		Not Adjustable
		Camber		Not Adjustable
		Toe-in	-2.2 to -6.6mm (-0.087 to -0.259 in)	Toe-Out
	Periodic M.V. inspection	Caster	$+1\frac{1}{4}^{\circ} \pm 3/4^{\circ}$	
		Camber	$+1/16^{\circ} \pm 1/4^{\circ}$	
		Toe-in	-2.2 to -6.6mm (-0.087 to -0.259 in)	Toe-Out
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-0^{\circ}50' \pm 30'$	
		Toe-in (outside track-mm (in.))		
	Service reset*	Camber		Not Adjustable
		Toe-in		Not Adjustable
	Periodic M.V. inspection	Camber	$-0^{\circ}50' \pm 30'$	
		Toe-in		

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

Electrical - Instruments and Equipment

Speedometer	Type	Mechanical - Cable Drive
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		N.A.
Charge indicator	Type	Warning Lamp - Std.
	Warning device	N.A.
Temperature indicator	Type	Electric Gauge
	Warning device	N.A.
Oil pressure indicator	Type	Warning Lamp
	Warning device	
Fuel indicator	Type	Electric Gauge
	Warning device	Low Fuel Warning Light - Std. on some Models
Windshield wiper	Type (standard)	Electric—Two-Speed and Pulse Wipe Washer
	Type (optional)	Intermittent Wiper - Fixed Interval (Std. on some Models)
	Blade length	457.2mm (18 in)
	Swept area (cm ² (in. ²))	5335 cm ² (827 in ²)
Windshield washer	Type (standard)	Fluidic - Electric Pump
	Type (optional)	None
	Fluid level indicator	Float Type-Electric Signal (Part of Systems Sentry Option)
Horn	Type	Electric Diaphragm
	Number used	One (Base & L, S Models)-Two (DL, LS, LTD & GS Models)
Other		Seat Belt Warning Lamp & Buzzer, Key Reminder, Buzzer (Std-Base & L, S Models); Seat Belt Warning Lamp & Chime, Key Reminder & Headlamps-on Chimes (Std-DL, LS, LTD & GS Models); Parking Brake Warning Lamp-Std; Electric Tachometer and oil Level Gauge - Std. on some Models.

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METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (•) _____

Engine Description/Carb.
 Engine Code

4-CYL. 1.4L (85.2 C.I.D.)
 SGL. POINT FUEL INJECTION-C3J

4-CYL. 1.7L (103.7 C.I.D.)
 SGL. POINT FUEL INJECTION-F3N

Electrical - Supply System

Battery	Make	Globe Union - Maintenance Free	
	Model, std., (opt.)	58-390 CCA (58 - 425 CCA)	58A-425 CCA (58-475 CCA)
	Voltage	12 Volts	
	Amps at 0°F cold crank	390 AMPS (425 AMPS)	425 AMPS (475 AMPS)
	Minutes-reserve capacity	75 min (82 min)	82 min (80 min)
	Amp/hrs. - 20 hr. rate	NA	
Generator or alternator	Location	Engine Compartment - Front, Right Side	
	Type and rating	Alternator - 12 Volt 50 Amp	Alternator - 12 Volt 60 Amp
	Ratio (alt. crank rev.)	2.15:1	
	Optional (type & rating)	Alternator - 12 Volt 70 Amp	Alternator - 12 Volt 75 Amp
Regulator	Type	Electronic - Integral with Alternator	

Electrical - Starting System

Start. motor	Current drain at 0°F	200 Amps
Motor drive	Engagement type	Positive (Pre-engaged) Solenoid
	Pinion engages from (front, rear)	Rear

Electrical - Ignition System

Type	Conventional (std., opt., n.a.)	N.A.	
	Electronic (std., opt., n.a.)	Standard - Programmed Spark Advance	
	Other (specify)		
Coil	Make	Part of Ignition Control Box (Renix)	
	Model	Opt: Ducellier, AC Delco, Magnetic Marelli	
	Current	Engine stopped - A	0
Spark plug		Engine idling - A	0.4A - 0.8A
	Make	Champion	Champion
	Model	RN12YC / RN-12Y	RN-9YC
	Thread (mm)	14mm	14mm
	Tightening torque (N-m (lb. ft.))	24.4-29.8 (18-22)	24.4-29.8 (18-22)
	Gap	0.8mm (.032 in)	0.8mm (.032 in)
	Number per cylinder	One	One
Distributor	Make	Ducellier	Ducellier
	Model	7700707070	7700718086

Electrical - Suppression

Locations & type	Suppression Type Ignition Cables Resistor Type Spark Plugs
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (a) _____

Body Type

ALLIANCE	ALLIANCE
SEDAN - 2-Door (96)	CONVERTIBLE - 2-Door (97)
SEDAN - 4-Door (95)	

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel - Clearcoat
Hinge location (front, rear)	Front
Type (counterbalance, prop)	Prop
Release control (internal, external)	Internal
Type (counterbalance, other)	Counterbalance
Internal release control (elec., mech., n.a.)	N.A.
Type (counterbalance, other)	N.A.
Internal release control (elec., mech., n.a.)	N.A.
Bar material & mass, kg (weight, lbs.)	Urethan Foam or Elvax Absorber
Reinforcement material & mass, kg (lbs.)	
Bar material & mass, kg (weight, lbs.)	Urethan Foam or Elvax Absorber
Reinforcement material & mass, kg (lbs.)	
Vent window control (crank, friction, pivot, power)	Front: N.A. Rear: N.A.
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front: Pedestal Mounted Bucket - Foam Pad Rear: Bench - Wire Frame and Foam Pad 3rd seat: N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front: Bucket - Non-Reclining / Reclining - Foam Pad Rear: Bench - Wire Frame and Foam Pad 3rd seat: N.A.
Vehicle identification no. location	Instrument Panel - L. H. Side

Frame

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

Backlight slope angle (deg.)	H121	50°	44° 30'
Windshield slope angle (deg.)	H122	55° 20'	
Tumble-Home (deg.)	W122		
Windshield glass exposed surface area [cm ² (in. ²)]	S1		
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2		
Backlight glass exposed surface area [cm ² (in. ²)]	S3		
Total glass exposed surface area [cm ² (in. ²)]	S4		
Windshield glass (type)		Laminated	
Side glass (type)		Tempered	
Backlight glass (type)		Tempered	Plastic

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (●) _____

Body Type

ENCORE
 Hatchback - 3-Door (93)
 Hatchback - 5-Door (99)

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel - Clearcoat	
Hood	Hinge location (front, rear)	Front
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	N.A.
	Internal release control (elec., mech., n.a.)	N.A.
Hatchback lid	Type (counterbalance, other)	Gas Struts
	Internal release control (elec., mech., n.a.)	Electric - Opt. (Std. on "GS" Model)
Bumper front	Bar material & mass, kg (weight, lbs.)	Urethan Foam or Elvax Absorber
	Reinforcement material & mass, kg (lbs.)	
Bumper rear	Bar material & mass, kg (weight, lbs.)	Urethan Foam or Elvax Absorber
	Reinforcement material & mass, kg (lbs.)	
Vent window control (crank, friction, pivot, power)	Front	N.A.
	Rear	N.A.
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Pedestal Mounted Bucket - Foam Pad**
	Rear	Bench (Full Cushion)* Std.; 60/40 Split - Folding* Opt.
	3rd seat	N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket - Non-Reclining/Reclining - Foam Pad**
	Rear	Bench (Full Back)* Std.; 60/40 Split - Folding* Opt.
	3rd seat	N.A.
Vehicle identification no. location	Instrument Panel - L.H. Side	

Frame

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

Backlight slope angle (deg.)	H121	28° 30'
Windshield slope angle (deg.)	H122	55° 20'
Tumble-Home (deg.)	W122	
Windshield glass exposed surface area [cm ² (in. ²)]	S1	
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	
Backlight glass exposed surface area [cm ² (in. ²)]	S3	
Total glass exposed surface area [cm ² (in. ²)]	S4	
Windshield glass (type)		Laminated
Side glass (type)		Tempered
Backlight glass (type)		Tempered

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type

ALLIANCE	ENCORE
SEDAN - 2-Door (96) Convertible	Hatchback - 3-Door (93)
SEDAN - 4-Door (95) 2-Door (97)	Hatchback - 5-Door (99)

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: 3-Point Rear: 2-Point
	Location	Meet and Comply with Federal Standard No. 209
Passive seat belts	Standard/optional	N.A.
	Power/manual	
	2 or 3 point	
	Knee bar/lap belt	

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (*)

Body Type

ALLIANCE SEDAN	ALLIANCE	ENCORE HATCHBACK
2-Door (96)	Convertible	2-Door (93)
4-Door (95)	2-Door (97)	4-Door (99)

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

Air conditioning (manual, auto, temp control)		Optional - Manual Temp. Control
Clock (digital, analog)		Fresh/Recirc. Air Reheat system; Cycling Clutch
Compass / thermometer		Quartz Digital (Electric Vacuum Fluorescent Digital Display)
Console (floor, overhead)		N.A.
Defroster, elec. backlight		Floor - Standard
Electronic	Diagnostic warning (integrated, individual)	Electric Backlight (Grid) - Opt. (Exc. Convertible - N.A.)
	Instrument cluster (list instruments)	Opt - Monitors Fluids Level & Front Disc Brake Lining Wear
	Keyless entry	N.A.
	Trip/indicator (avg. spd., fuel)	Opt (Exc. Convertible - N.A.) - Infrared Coded Control
	Voice alert (list items)	N.A.
	Other	N.A.
Fuel door lock (remote, key, electric)		Locking Cap - Key - Opt
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Courtesy (Type 89)*; Map (Type c11-7w)* (Exc Convertible-N.A.)
	Door lock, ignition	N.A.
	Engine compartment	Opt - Type 105*
	Fog	Opt - Halogen
	Glove compartment	Opt - Type c11-5w*
	Trunk	Opt - Type 105*
	Other	Dome Std.-Loc. Above Driver (Center of w/shield Header-Convertible) Type c11-7w
Mirrors	Day/night (auto, man.)	8" Prismatic Inside Rear View - Man.
	L.H. (remote, power, heated)	Non-Remote (Std. some Models); Mechanical Remote Opt.*
	R. H. (convex, remote, power, heated)	Convex Mechanical Remote Opt.*
	Visor vanity (RH: L.H. illuminated)	RH Illuminated-Opt. (Exc. Convertible-N.A.)*
Parking brake-auto release (warning light)		N.A.
Power equipment	Door locks: deck lid - specify	Power Door Locks: Opt.; Hatchback Lid Power Release: Opt.*
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	N.A.
	Side windows	Front Only (Front & Rear Quarter - Convertible)-Opt.
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whip, w/shield, power)	Fixed Mast Whip-Type-Loc. on w/shield Lwr Cowl-Right Side
	AM, FM, stereo, tape, CB	AM, AM/FM Monaural, AM/FM Stereo & AM/FM Stereo/Cassette***
	Speaker (number, location) Premium sound	Monaural: 2, AM/FM Stereo: 4, AM/FM Stereo/Cassette***
Roof open air fixed (flip-up, sliding, "T")		Glass Pop-Up-Rotary Infinitely Variable Opening Control**
Speed control device		Optional - Demand Vacuum System
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		Optional - Standard on Some Models
Theft protection-type		Steering Column Lock

*Optional (Std. on Some Models)

**Except Convertible - Convertible Soft Top is Controlled Hydraulically.

***AM/FM Stereo/Cassette (ETR): w/dynamic noise reduction, four speakers; w/dolby, six MVMA-C-85 Speakers.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (●)

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

Body Type

SAE Ref. No.	ALLIANCE SEDAN 4-Door (95)	ALLIANCE SEDAN 2-Door (96)	ALLIANCE Convertible 2-Door (97)
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Width

ALL DIMENSIONS mm (in) UNLESS NOTED

Tread (front)	W101	1402 (55.2)
Tread (rear)	W102	1341 (52.8)
Vehicle width	W103	1651 (65.)
Body width at Sg RP (front)	W117	
Vehicle width (front doors open)	W120	
Vehicle width (rear doors open)	W121	

Length

Wheelbase	L101	2483 (97.8)
Vehicle length	L103	4161 (163.8)
Overhang (front)	L104	787 (31.)
Overhang (rear)	L105	891 (35.)
Upper structure length	L123	2478
Rear wheel C/L "X" coordinate	L127	
Cowl point "X" coordinate	L125	

Height*

Passenger distribution (frt./rear)	PD1,2,3	2/3	2/3	2/2
Trunk/cargo load Kg (lb)			45.3 (100.)	
Vehicle height	H101	1304 (51.3)	1304 (51.3)	1348 (53.)
Cowl point to ground	H114		878 (34.6)	
Deck point to ground	H138		859 (33.8)	
Rocker panel-front to ground	H112		159 (6.3)	
Bottom of door closed-front to grd.	H133		264 (10.4)	
Rocker panel-rear to ground	H111		142 (5.6)	
Bottom of door closed-rear to grd.	H135		246 (9.7)	

Ground Clearance*

Front bumper to ground	H102	349 (13.75) +/-25 (1.)
Rear bumper to ground	H104	263 (10.4) +/-25 (1.)
Bumper to ground (front at curb mass (wt.))	H103	367 (14.4) +/-25 (1.)
Bumper to ground (rear at curb mass (wt.))	H105	399 (15.7) +/-25 (1.)
Angle of approach (degrees)	H106	27.8°
Angle of departure (degrees)	H107	19°
Ramp breakover angle (degrees)	H147	12°
Rear axle differential to ground	H153	N.A.
Min. running ground clearance	H156	120 (4.75)
Location of min. run. grd. clear.		Exhaust System at 1200 longitudinal (x) coordinate

* 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.

MVMA Specifications Form Passenger Car

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

See Key Sheets for definitions

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type	SAE Ref. No.	ENCORE HATCHBACK 3-Door (93)	ENCORE HATCHBACK 5-Door (99)
Width			
ALL DIMENSIONS mm (in) UNLESS NOTED			
Tread (front)	W101	1402 (55.2)	
Tread (rear)	W102	1341 (52.8)	
Vehicle width	W103	1651 (65.)	
Body width at Sg RP (front)	W117		
Vehicle width (front doors open)	W120		
Vehicle width (rear doors open)	W121		
Length			
Wheelbase	L101	2483 (97.8)	
Vehicle length	L103	4079 (160.6)	
Overhang (front)	L104	787 (31.)	
Overhang (rear)	L105	809 (31.9)	
Upper structure length	L123		
Rear wheel C/L "X" coordinate	L127	2478	
Cowl point "X" coordinate	L125		
Height*			
Passenger distribution (fr./rear)	PD1,2,3	2/3	
Trunk/cargo load Kg (lb)		45.3 (100)	
Vehicle height	H101	1304 (51.3)	
Cowl point to ground	H114	878 (34.6)	
Deck point to ground	H138	862 (33.9)	
Rocker panel-front to ground	H112	159 (6.3)	
Bottom of door closed-front to grd.	H133	264 (10.4)	
Rocker panel-rear to ground	H111	142 (5.6)	
Bottom of door closed-rear to grd.	H135	246 (9.7)	
Ground Clearance*			
Front bumper to ground	H102	349 (13.75) +/-25 (1.)	
Rear bumper to ground	H104	263 (10.4) +/-25 (1.)	
Bumper to ground (front at curb mass (wt.))	H103	367 (14.4) +/-25 (1.)	
Bumper to ground (rear at curb mass (wt.))	H105	399 (15.7) +/-25 (1.)	
Angle of approach (degrees)	H106	27.8°	
Angle of departure (degrees)	H107	20.2°	
Ramp breakover angle (degrees)	H147	12°	
Rear axle differential to ground	H153	N.A.	
Min. running ground clearance	H156	120 (4.75)	
Location of min. run. grd. clear.		Exhaust System at 1200 longitudinal (x) Coordinate	

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line ALLIANCE - ENCORE (RENAULT/AMC)

Model Year 1985 Issued 10-1-84 Revised (e) _____

Body Type

SAE Ref. No.	ALLIANCE SEDAN 4-Door (95)	ALLIANCE SEDAN 2-Door (96)	ALLIANCE CONVERTIBLE 2-Door (97)
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ALL DIMENSIONS mm (in) UNLESS NOTED

Front Compartment

Sg RP front, "X" coordinate F.B. (a)	L31	1265 (49.8)	1265 (49.8)	1265 (49.8)
Effective head room	H61	942 (37.1)	942 (37.1)	9801 (38.6)
Max. eff. leg room (accelerator)	L34	1036 (40.8)	1036 (40.8)	1036 (40.8)
Sg RP (front to heel)	H30	280 (11.)	280 (11.)	280 (11.)
Design H-point front travel	L17	180 (7.1)	180 (7.1)	180 (7.1)
Shoulder room	W3	1336 (52.6)	1336 (52.6)	1336 (52.6)
Hip room	W5	1277.6 (50.3)	1320.8 (52)	1320.8 (52)
Upper body opening to ground	H50	1296 (51)	1296 (51)	1296 (51)
Steering wheel angle	H18	26.3	26.3	26.3
Back angle (a)	L40	22.5° F.B./25° REC.	22.5° F.B./25°	22.5° F.B./25° REC.

Rear Compartment

Sg RP Point couple distance	L50	745 (29.3)	745 (29.3)	745 (29.3)
Effective head room	H63	940 (37)	940 (37)	967 (38.1)
Min. effective leg room	L51	975 (38.4)	975 (38.4)	975 (38.4)
Sg RP (second to heel)	H31	256 (10.1)	256 (10.1)	256 (10.1)
Knee clearance	L48			
Compartment room	L3	640 (25.2)	640 (25.2)	640 (25.2)
Shoulder room	W4	1313 (51.7)	1296 (51)	976 (38.4)
Hip room	W6	1321 (52.)	1296 (51)	998 (39.3)
Upper body opening to ground	H51	1296 (51.)	1296 (51.)	1296 (51.)
Back angle	L41	21°	21°	21°

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	.36m ³ (12.8 cu. ft.)	.36m ³ (12.8 cu. ft.)	.21m ³ (7.45 cu. ft.)
Liftover height	H195	815 (32.1)	815 (32.1)	815 (32.1)

Interior Volumes (EPA Classification)

Vehicle class		COMPACT	COMPACT	SUBCOMPACT
Interior volume index (cu. ft.)		101.6 cu. ft.	101.4 cu. ft.	8/.8 cu. ft.
Trunk/cargo index (cu. ft.)				

(a) F.B.=FIXED BACK - REC.=RECLINER BACK

MVMA Specifications Form Passenger Car

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

See Key Sheets for definitions

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type

SAE Ref. No.	ENCORE HATCHBACK 3-Door (93)	ENCORE HATCHBACK 5-Door (99)
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ALL DIMENSIONS mm (in) UNLESS NOTED

Front Compartment

Sg RP front, "X" coordinate	L31	1265 (49.8) (Fixed Back)
Effective head room	H61	942 (37.1)
Max. eff. leg room (accelerator)	L34	1036 (40.8)
Sg RP (front to heel)	H30	280 (11.)
Design H-point front travel	L17	180 (7.1)
Shoulder room	W3	1336 (52.6)
Hip room	W5	1321 (52.)
Upper body opening to ground	H50	1296 (51.)
Steering wheel angle	H18	26.3°
Back angle	L40	22.5° (Fixed Back) / 25° (Recliner)

Rear Compartment

Sg RP Point couple distance	L50	745 (29.3)
Effective head room	H63	925 (36.4)
Min. effective leg room	L51	978 (38.5)
Sg RP (second to heel)	H31	272 (10.7)
Knee clearance	L48	
Compartment room	L3	580 (22.8)
Shoulder room	W4	1296 (51.) 1313 (51.7)
Hip room	W6	1296 (51.) 1321 (52)
Upper body opening to ground	H51	1296 (51)
Back angle	L41	21°

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	See Page 22, V3
Liftover height	H195	794 (31.3)

Interior Volumes (EPA Classification)

Vehicle class		Compact
Interior volume index (cu. ft.)	103.2	103.9
Trunk/cargo index (cu. ft.)		N.A.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line ALLIANCE - ENCORE (RENAULT/AMC)

Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type

SAE Ref. No.	ENCORE HATCHBACK 3-DOOR (93)	ENCORE HATCHBACK 5-DOOR (99)
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Station Wagon - Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	
Back angle	L88	

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

ALL DIMENSIONS mm (in) UNLESS NOTED

Front seat back to load floor height	H197	480 (18.9)	480 (18.9)
Cargo length at front seat back height	L208	1311 (51.6)	1311 (51.6)
Cargo length at floor (front)	L209	1602 (63.1)	1602 (63.1)
Cargo volume index (m ³ (ft. ³))	V3	.92m ³ (32.4 cu ft)**	.91m ³ (32.0 cu ft)**
Hidden cargo volume (m ³ (ft. ³))	V4	N.A.	N.A.
Cargo volume index-rear of 2-seat	V11	.45m ³ (15.95 cu ft)***	.45m ³ (15.7 cu ft)***

Aerodynamics*

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

* Describe measurement method.

** With Rear Seat Back Down.

*** With Rear Seat Back Up.

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type

ALLIANCE: 4-DOOR SEDAN (95) - 2-DOOR SEDAN (96) - 2-DOOR CONVERTIBLE (97)
ENCORE: 3-DOOR HATCHBACK (93) - 5-DOOR HATCHBACK (99)

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location										
Front											
Rear											
Fiducial Mark Number											
Front	<table border="1"> <tr><td>W21</td><td></td></tr> <tr><td>L54</td><td></td></tr> <tr><td>H81</td><td></td></tr> <tr><td>H161</td><td></td></tr> <tr><td>H163</td><td></td></tr> </table>	W21		L54		H81		H161		H163	
W21											
L54											
H81											
H161											
H163											
Rear	<table border="1"> <tr><td>W22</td><td></td></tr> <tr><td>L55</td><td></td></tr> <tr><td>H82</td><td></td></tr> <tr><td>H162</td><td></td></tr> <tr><td>H164</td><td></td></tr> </table>	W22		L55		H82		H162		H164	
W22											
L55											
H82											
H162											
H164											

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

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (•) _____

Body Type

SAE Ref. No.	ALLIANCE 4-DOOR SEDAN (95) 2-DOOR SEDAN (96) 2-DOOR CONVERTIBLE (97)
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	625.0	(24.61)
		Lowest		
	Taillamp (H128)	Highest**	689.5	(27.15)
		Lowest		
	Sidemarker	Front	480.5	(18.92)
		Rear	480.5	(18.92)
Distance from C/L of car to center of bulb	Headlamp	Inside	411.5	(16.20)
		Outside**	607.0	(23.90)
	Taillamp	Inside		
		Outside**	609.0	(23.98)
	Directional	Front	590.0	(23.23)
		Rear	609.0	(23.98)
	Headlamp shape			DUAL RECTANGULAR

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

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (*) _____

Body Type

SAE Ref. No.	<u>ENCORE</u>	
	<u>3-DOOR HATCHBACK (93)</u>	<u>5-DOOR HATCHBACK (99)</u>

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	625.0 (24.61)
		Lowest	
	Taillamp (H128)	Highest**	779.28 (30.68)
		Lowest	
	Sidemarker	Front	555.7 (21.88)
		Rear	507.5 (19.98)
Distance from C/L of car to center of bulb	Headlamp	Inside	411.5 (16.20)
		Outside**	607.0 (23.90)
	Taillamp	Inside	
		Outside**	666.0 (26.22)
	Directional	Front	590.0 (23.23)
		Rear	666.0 (26.22)
	Headlamp shape		DUAL RECTANGULAR

* Measured at curb mass (weight).

** If single lamps are used enter here.

METRIC (U.S. Customary)

Model Year 1985 Issued 10-1-84 Revised (●)

* Reference - SAE J1100a, Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition -

METRIC (U.S. Customary)

Model Year 1985 Issued 10-1-84 Revised (•

* Reference - SAE J1100a, Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition -

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (●) _____

Equipment **	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
TRIM PACKAGES:				
ALLIANCE:				
Deluxe 4-Door (95-6)	1.00 (2.2)	1.54 (3.4)	2.54 (5.6)	Add individual weight of items listed in note 1 (below).
Deluxe 2-Door (96-6)	1.7 (3.8)	2.13 (4.7)	3.86 (8.5)	Add individual weight of items listed in note 1 (below)
Deluxe Convertible 2-Door (97-6)	1.13 (2.5)	1.50 (3.3)	2.63 (5.8)	Add individual weight of items listed in note 1 (below)
Luxury 4-Door (95-8)	1.22 (2.7)	2.40 (5.3)	3.63 (8.0)	Add individual weight of items listed in notes 1 and 2 (below)
ENCORE:				
Custom 3-Door (93-3)	0.45 (1.0)	0.54 (1.2)	1.00 (2.2)	Add individual weight of A.M. Radio, as listed within these specifications
Deluxe 3-Door (93-6)	1.45 (3.2)	1.04 (2.3)	2.49 (5.5)	Add individual weight of items listed in note 1 (below)
Deluxe 5-Door (99-6)	1.00 (2.2)	0.68 (1.5)	1.68 (3.7)	Add individual weight of items listed in note 1 (below)
Sport 3-Door (93-9)	1.45 (3.2)	1.68 (3.7)	3.13 (6.9)	Add individual weight of 5-Speed Manual Transmission, P185/14 Tires and 1.7L 4-Cyl Engine as listed within these specifications.
SEATS:				
ALLIANCE:				
Bucket Recliner:				
4-Door (95)	0.54 (1.2)	0.54 (1.2)	1.09 (2.4)	
2-Door (96)	0.45 (1.0)	0.45 (1.0)	0.91 (2.0)	

*Also see Engine - General Section for dressed engine mass (weight).
 **Vehicle Model Number is in Parenthesis.

NOTE 1: Add 5-Speed Manual Transmission, P175/13 Tires and Extra Quiet Insulation Package as listed within these specifications.
 NOTE 2: Add 1.7L 4-Cyl. Engine as listed within these specifications.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•) _____

Equipment 装备	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
SEATS (CONTINUED):				
ALLIANCE:				
Bucket Rocker-Recliner:				
4-Door (95)	2.49 (5.5)	2.68 (5.9)	5.17 (11.4)	
2-Door (96) (97)	2.45 (5.4)	2.54 (5.6)	4.99 (11.0)	
Wingback Bucket Rocker-Recliner:				
4-Door (95)	2.72 (6.0)	2.9 (6.4)	5.62 (12.4)	
2-Door (96) (97)	2.63 (5.8)	2.81 (6.2)	5.44 (12.0)	
ENCORE:				
Bucket Recliner:				
5-Door (99)	0.54 (1.2)	0.54 (1.2)	1.09 (2.4)	
3-Door (93)	0.45 (1.01)	0.45 (1.0)	0.91 (2.0)	
Bucket Rocker-Recliner:				
5-Door (99)	2.49 (5.5)	2.68 (5.9)	5.17 (11.4)	
3-Door (93)	2.45 (5.4)	2.54 (5.6)	4.99 (11.0)	
Wingback Bucket Rocker-Recliner:				
5-Door (99)	2.72 (6.0)	2.90 (6.4)	5.62 (12.4)	
3-Door (93)	2.63 (5.8)	2.81 (6.2)	5.44 (12.0)	

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

**Vehicle Model Number is in Parenthesis.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•) _____

		Optional Equipment Differential Mass (weight)*		
Equipment **	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
ENGINE:				
1.7 Liter 4-Cylinder (8gl Point P.I.)	23.5 (51.9)	-2.4 (-5.3)	21.1 (46.6)	
TRANSMISSION:				
5-Speed Manual	2.0 (4.4)	0.0 (0.0)	2.0 (4.4)	
3-Speed Automatic	12.7 (28.0)	0.0 (0.0)	12.7 (28.0)	
TIRES:				
P175/13 Steel Blt.	2.27 (5.0)	2.27 (5.0)	4.54 (10.0)	
P185/14 Steel Blt.	3.63 (8.0)	3.63 (8.0)	7.26 (16.0)	
POWER OPTIONS:				
Steering	5.85 (12.9)	0.14 (0.3)	5.99 (13.2)	
Door Locks:				
4-Dr. (95)/5-Dr. (99)	1.13 (2.5)	1.36 (3.0)	2.49 (5.5)	
2-Dr. (96) (97)/3-Dr. (93)	1.00 (2.2)	0.73 (1.6)	1.72 (3.8)	
Windows and Door Locks:				
4-Dr. (95)/5-Dr. (99)	2.95 (6.5)	2.45 (5.4)	5.40 (11.90)	
2-Dr. (96) (97)/3-Dr. (93)	2.81 (6.2)	1.81 (4.0)	4.63 (10.2)	

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

**Vehicle Model Number is in Parenthesis.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
WHEELS AND WHEEL				
ORNAMENTATION:				
Chrome Hub Cover and Trim Rings	0.64 (1.4)	0.64 (1.4)	1.27 (2.8)	
Luxury Wheel Cover, Except Encore 5-Dr. (99)	1.36 (3.0)	1.36 (3.0)	2.72 (6.0)	
Sport Wheel Cover, Encore Only	0.91 (2.0)	0.91 (2.0)	1.81 (4.0)	
Aluminum Wheel	1.09 (2.4)	1.09 (2.4)	2.18 (4.8)	
OPTION GROUPS:				
Visibility	0.86 (1.9)	0.32 (0.7)	1.18 (2.6)	
Light	0.32 (0.7)	0.27 (0.6)	0.59 (1.3)	
Protection	2.54 (5.6)	1.54 (3.4)	4.08 (9.0)	
Cold Weather	0.59 (1.3)	0.05 (0.1)	0.64 (1.4)	
RADIOS:				
AM	1.4 (3.0)	0.4 (0.9)	1.8 (3.9)	
AM/FM Monaural	1.6 (3.6)	0.5 (1.1)	2.1 (4.7)	
AM/FM Stereo	2.2 (4.9)	1.9 (4.1)	4.1 (9.0)	
AM/FM Stereo/Cassette 4-Speaker System	2.6 (5.8)	2.0 (4.4)	4.6 (10.2)	Electronically Tuned Radio with Dynamic Noise Reduction
AM/FM Stereo/Cassette 6-Speaker System	4.1 (9.1)	3.1 (6.8)	7.2 (15.9)	Electronically Tuned Radio with Dolby Noise Reduction

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

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

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
 Model Year 1985 Issued 10-1-84 Revised (e) _____

Equipment **	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg (weight lb.)			
	Front	Rear	Total	
AIR CONDITIONING:	27.35	-1.77	25.58	
	(60.3)	(-3.9)	(56.4)	
AIR CONDITIONING PREP PACKAGE:	3.86	-0.50	3.36	
	(8.5)	(-1.1)	(7.4)	
REAR WINDOW DEFOGGER	0.45	0.0	0.45	
	(1.0)	(0.0)	(1.0)	
CLOCK:	0.27	0.0	0.27	
	(0.6)	(0.0)	(0.6)	
TACHOMETER:	0.14	0.0	0.14	
	(0.3)	(0.0)	(0.3)	
CRUISE CONTROL:	1.95	-0.14	1.81	
	(4.3)	(-0.3)	(4.0)	
INTERMITTENT WIPERS:	0.18	0.09	0.27	
	(0.4)	(0.2)	(0.6)	
HALOGEN FOG LAMPS:	1.95	-0.50	1.45	
	(4.3)	(-1.1)	(3.2)	
KEYLESS ENTRY SYSTEM:				
4-Door(95)/5-Door(99)	1.50	1.36	2.86	
	(3.3)	(3.0)	(6.3)	
2-Door (96)(97)/3-Dr.(93)	1.36	0.73	2.09	
	(3.0)	(1.6)	(4.6)	
EXTRA QUIET INSULATION PACKAGE:				
ALLIANCE:	1.00	2.09	3.08	
	(2.2)	(4.6)	(6.8)	
ENCORE:	0.73	4.45	5.17	
	(1.6)	(9.8)	(11.4)	
SUN ROOF:	6.03	7.98	14.02	
	(13.3)	(17.6)	(30.9)	
LICENSE PLATE BRACKET:	0.45	0.0	0.45	
	(1.0)	(0.0)	(1.0)	

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

**Vehicle Model Number is in Parenthesis.

METRIC (U.S. Customary)

Car Line ALLIANCE - ENCORE (RENAULT/AMC)
Model Year 1985 Issued 10-1-84 Revised (•)

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

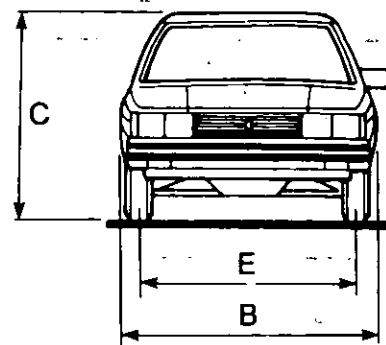
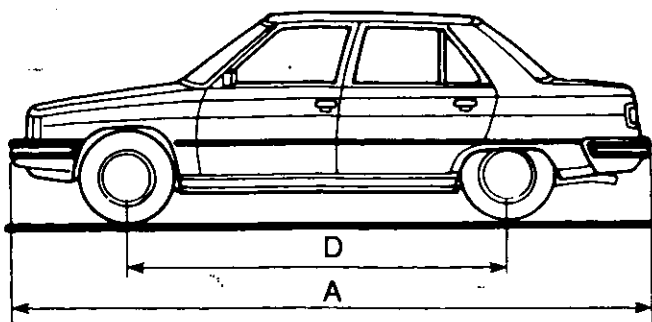
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GENERAL EXTERIOR DIMENSIONS

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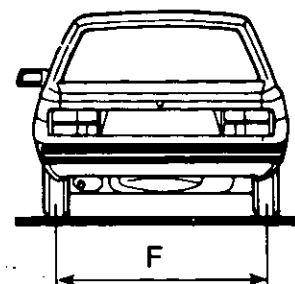
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NOTES



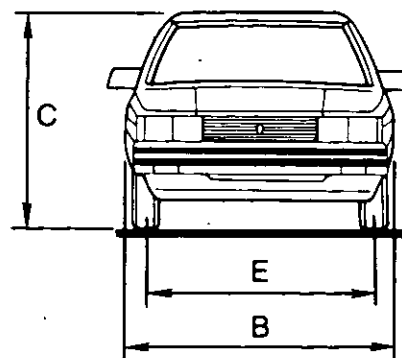
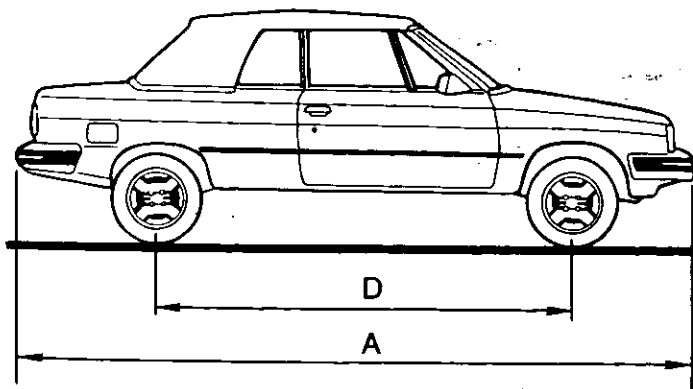
EXTERIOR DIMENSIONS

Overall length	A	4161 mm (163.8 in)
Overall width	B	1651 mm (65.0 in)
Overall height ①	C	1304 mm (51.3 in)
Wheelbase	D	2483 mm (97.8 in)
Front track	E	1402 mm (55.2 in)
Rear track	F	1341 mm (52.8 in)

① at design load weight



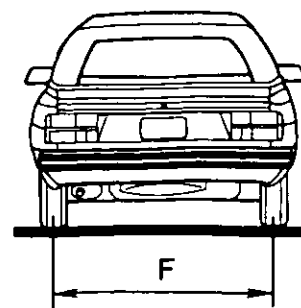
CONVERTIBLE



EXTERIOR DIMENSIONS

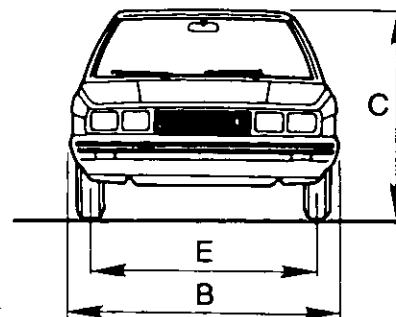
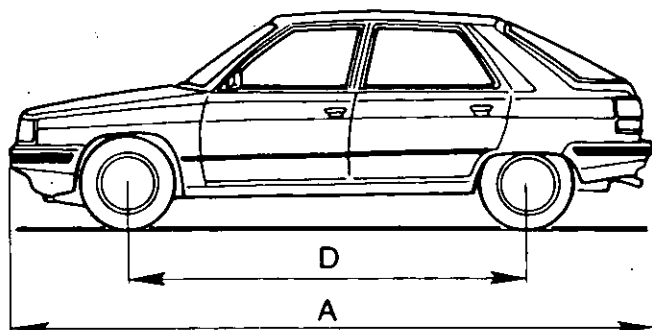
Overall length	A	4161 mm (163.8 in)
Overall width	B	1651 mm (65.0 in)
Overall height ①	C	1348 mm (53 in)
Wheelbase	D	2483 mm (97.8 in)
Front track	E	1402 mm (55.2 in)
Rear track	F	1341 mm (52.8 in)

① at design load weight



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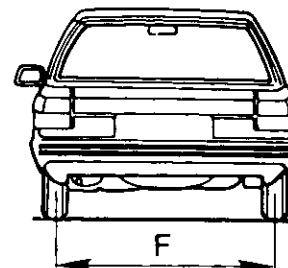
HATCHBACK



EXTERIOR DIMENSIONS

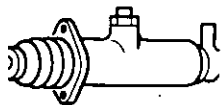
Overall length	A	4079 mm (160.6 in)
Overall width	B	1651 mm (65.0 in)
Overall height ①	C	1304 mm (51.3 in)
Wheelbase	D	2483 mm (97.8 in)
Front track	E	1402 mm (55.2 in)
Rear track	F	1341 mm (52.8 in)

① at design load weight



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BRAKE SYSTEM

GENERAL INFORMATION



SPECIFICATIONS

FRONT BRAKES

Caliper cylinder bore	48 mm (1.890 in.)
Diameter of the rotor	238 mm (9.370 in.)
Thickness of the rotor (Except GTA)	12 mm (0.472 in.)
Thickness of the rotor (GTA)	20 mm (0.079 in.)
Minimum thickness of the rotor (Except GTA)	11 mm (0.433 in.)
Minimum thickness of the rotor (GTA)	19 mm (0.750 in.)
Thickness of the pads (including the backing plate)	15.8 mm (0.623 in.)
Minimum thickness of the Pads (including the backing plate)	7 mm (0.276 in.)
Maximum warping of the rotor	0.07 mm (0.003 in.) on a diameter of 228 mm (8.976 in.)

TANDEM MASTER CYLINDER

Bore	21 mm (.827 in.)
Length of power stroke	30 mm (1.181 in.)
Pressure drop indicator (P.D.I.)	Combination Valve
Brake booster (Bore)	203.0 mm (7.874 in.)
Residual pressure valve	without

PARKING BRAKE LEVER: On the floor, mechanically controlled, acting on the rear wheels. Travel: over a minimum of 7 to 8 notches.

BRAKE FLUID: Conforms to SAE standards J 1703 F and DOT 3 or DOT 4.

REAR BRAKE

With automatic free play adjustment

Wheel cylinder bore	20.64 mm (.813 in.)
Diameter of the drums	203.2 mm (8.000 in.)
Maximum diameter of the drums after regrinding	204.7 mm (8.060 in.)
Width of the linings	34 mm (1.338 in.)
Thickness of the linings (including the shoe)	6 mm (0.238 in.)
Minimum thickness of the linings	0.5 mm (0.020 in.) above the heads of the rivets or above the metal bracket.

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