MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

Passenger Car

1987

Manufacturer	Car Line	
CHRYSLER MOTORS	DODGE ARIES	
Mailing Address		1
DETROIT, MICHIGAN 48288		
DETROIT, MICHIGAN 40200	Issued Aevised JUNE 20, 1986	

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

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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NOTE:

- 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).
- The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
- Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

Car Line _	DODGE ARIES		
Model Ye	ar 1987	Issued 6 - 20 - 86	Revised (•)

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)
ARIES-FWD	SEPT. 1986			
2-DOOR SEDAN 4-DOOR SEDAN		DL21 DL41	5(2/3) 5(2/3)	52(115) 52(115)
ARIES LE-FWD	SEPT. 1986			
2-DOOR SEDAN		DM21	5(2/3)	52(115)
4-DOOR SEDAN		DM41	5(2/3)	52(115)
2-SEAT WAGON		DM45	5(2/3)	68(150)

Car Line DO	DGE ARIES			
Model Year _	1987	_ Issued _	6-20-86	Revised (•)

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.

			ENGINE					
				SAE Net	t at RPM	E x h		
SERIES AVAILABILITY	Displ. Liters (in.3)	Carb. (Barrel, Fl, etc.)	Compr. Ratio	kW (bhp)	Torque N-m (lb. ft.)	a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
STD.	2.2L	EFI	9.5	72 (97)	165 (122)	5	MANUAL 5-Speed	2.51
	(135) EDF			@ 5200	@ 3200		AUTOMATIC	2.78(a), 3.02(c)
OPT. M	2.5L (153) EDM	EFI	9.0	75 (100) @ 4800	180 (133) @ 2800	5	AUTOMATIC	3.02, 3.22 (b)

⁽a) Not available for 45

⁽b) Police Package

⁽c)Police package and 45

Car Line DC	DDGE A	RIES			
Model Year	1987	Issued	6-20-86	Revised (•)	

	Engine description/Carb. Engine Code	2.2L (135.0 in ³) EFI, EDF	2.5L (153.0 in ³) EFI, EDM
--	--------------------------------------	---	---

ENGINE - GENERAL

flat, location, front, mid, rear; transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc.	Four-cylinder, in-line, SOHC, canted, front, transverse		
Manufacturer	Chr	ysler	
No. of Cylinders		our	
Bore		(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)	0	.00	
(above or below block)	<u> </u>		
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: 73.8		
Cyl. no. system L. Bank	Right to left as installed in car 1, 2, 3, 4		
(front to rear)* R. Bank			
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	Regular		
(leaded, unleaded, diesel)	unleaded		
Fuel antiknock index R + M		ctane igher	
2	128.64 (283.6)	140.57 (309.9)	
2 Total dressed engine mass (wt) dry***	120.04 (203.0)	140.37 (303.3)	
	120.04 (203.0)	140.37 (303.3)	

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

Engine - Camshaft

Location		Overhead				
Material & mass kg (weight, lbs.)		Hardenable cast iron				
		2.5	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)

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

Engine description/Carb. Engine Code			2.2L (135.0 in.3) EFI, EDF	2.5L (153.0 in.3) EFI, EDM		
Engine - Valv	ve System					
Hydraulic lifters				Std		
Valves		r intake/exhaust		4/4		
	Head O	D. intake/exhaust	40.6 mr	n. / 35.4 mm.		
Engine - Con	nectina F	Rods				
Material & Mass			Forged steel (0.63 (1.4)	Forged steel 0.67 (1.5)		
Engine - Crar						
Material & Mass		ht lbs.)	Nodular iron 15.19 (33.5)	Forged steel 16.52 (36.4)		
End thrust taker	_			Three		
Number of main			·	Five		
Seal (material, o	one,	Front	Oı	ne piece		
two piece design	г	Rear	<u> </u>	ne piece		
Engine - Lub	rication S	System				
Normal oil press			25 - 80 psi @ 3000			
Type of intake (Stationary			
Oil filter system			Full flow			
Capacity of c/cas			3.8 (4)			
Engine - Dies	sel Inforn	nation				
Diesel engine m						
Glow plug, curre		<u> </u>				
Injector	Type	ng pres.[kPa (psi)]				
nozzle		ig pres.(kra (psi/)				
Pre-chamber de		acturer				
Fuel inj.	Type	accarer				
pump Fuel ini, pump d		chain gear)				
Fuel inj. pump drive (belt, chain, gear)						
	Supplementary vacuum source (type)					
Fuel heater (yes/no) Water separator description (std., opt.)		on (std., opt.)				
Turbo manufacturer		(3,2,1,2,1,1)				
Oil cooler type (oil to engine coolant;		ne coolant:				
oil to ambient a						
Oil filter						
Engine - Inta	ke Syste	·m				
Turbo - charger						
Super - charger - manufacturer				·		

Car Line _	DODGE ARIES	5			
Model Yea	ir <u>1987</u>	Issued	6-20-86	_Revised (•)	

Engine Description/Carb.	2.2L (135.0 in ³) EFI, EDF, 2.5 L (153.0 in. ³) EFI, EDM			
Engine Code	W/O AC	W/AC		

Coolant re	Cooling System covery system (std., opt., n.a.)	- Sta	ndard	
	l location (rad., bottle))	Bottle		
_	ap relief valve pressure [kPa (psi)]		4 (14-18)	
Circulation	Type (choke, bypass)	Choke, Pellet Operated		
thermostat	Starts to open at °C(°F)	90.6	5 (195)	
	Type (centrifugal, other)	Cent	trifugal	
	GPM 1000 pump RPM	-	•	
	Number of pumps		One	
Water	Drive (V-belt, other)	Multi-G	roove Belt	
Pump	Bearing type	Integral	Ball Bearing	
	Impeller material	S	teel	
	Housing material	Cast A	luminum	
By-pass re	circulation (type (inter., ext.))	ex	ternal	
Cooling	With heater - L(qt.)	8.5	(9.0)	
System	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		
	kets open at head face (yes, no)			
	Std., A/C, HD			
	Type (cross-flow, etc.)	Cro	ss-Flow	
no di sano	Construction (fin&tube, mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row		
Radiator	Material, mass[kg(wt., lbs.)] (a)	(b) (c)	(b) (d),	
Core	Width		4 (21.0)	
	Height	387.6	(15.26)	
	Thickness	17.	8(0.7)	
	Fins per inch	13	15 man., 16 or 20 auto.	
Radiator e	end tank material	Ny	lon 66	
	Std., elec., opt.		ectric	
	Number of blades & type (flex, solid, material)	2-Bla	de Metal	
	Diameter & projected width	315(12.4)/33(1.3)	360 (14.2) / 46 (1.8)	
	Ratio (fan to crankshaft rev.)		•	
F	Fan cutout type	Elect	ric Motor	
Fan	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.)		; 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.

Car Line	DODGE AR	ILES			
Model Yea	r <u>1987</u>	_lssued	6-20-86	Revised (•)	

•		
Engine Description/Carb. Engine Code	2.2L (135.0 in³) / EFI EDF	2.5L (153.0 in ³) / EFI EDM

	uel System		details of Fuel Injection, Supercharger, Turbocharger, etc. if used) electronic fuel injection	
Induction type: carb., fuel inj. sys., etc. Mfr.		sys., etc.	Bosch or Holly	
	Choke (type)		none	
Carburetor	tdle spd. rpm	Manual		
Carburetor	(specl neutral or drive and propane if used)	Automatic	700	
Idle A/F mix				
Point of injection (no.)		on (no.)	throttle body (1)	
Fuel	Constant, pulse	, flow	pulse	
Injection	Control (electr	onic, mech.)	electronic	
	System pressur	e (kPa (psi)]	100 (14.5)	
Intake manif	old heat control		water	
(exhaust or v	vater thermostat	ic or fixed)		
Air cleaner	Standard		oil-wetted paper element	
type	optional			
	Type (elec. or mech.)		electric	
Fuel pump	Location (eng.		in fuel tank	
	Pressure range [kPa (psi)]		116-262 @12V & 15.0 PSI(a)	

Fuel Tank

ruei tank				
Capacity (re	fill L (gallons)]	53 (14.0)		
_	Location (describe) forward of axle			
Attachment		Galv. or terne plated strap to floor pan		
Material & n	nass [kg (weight lbs.)]	terne plated steel 9.34 (20.6)		
Filler	Location & material	external, right rear quarter panel; lead dipped steel		
pipe	Connection to tank	rubber grommet		
Fuel line (m	aterial)	duplex-coated steel		
Fuel hose (m		fuel resistant rubber		
Return line (material)		duplex-coated steel		
	Vapor line (material) terne plated steel			
	Opt., n. a.			
Extended	Capacity (L (gallons))			
range tank	Location & material			
Lank	Attachment			
	Opt., n. a.			
Auxiliary	Capacity (L (gallons))			
tank	Location & material			
COLL	Attachment			
	Selector switch or valve			
	Separate fill			

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

Carline DODGE ARIES

Model Year 1987 Issued 6-20-86 Revised(•)

Engine Description/Carb.	2.2L(135.0in ³)	2.5L (153.0 in.3)
Engine Code	EFI	EFI
	EDF	EDM

	Type (air inj	ection, eng. m	odifications)	(a)		
		Pump or puls	e	pulse		
	İ	Driven by		exhaust pressure		
	Air	Air distributi	on	single point		
injection (h		(head, manif	old, etc.)			
	·	Point of entr	у	exhaust manifold collector		
		Type (contro	lled flow,	controlled flow		
	Exhaust	open oriface, other)				
Exhaust	Gas	Exhaust sour	ce	manifold collector		
Emission	Recirc-	Point of exha	iust inj.	intake manifold		
Control	ulation	(spacer, carb., manif., etc.)				
		Туре		3 - Way + oxidation		
	Catalytic	Number of		one		
	Converter	Location(s)		below exhaust manifold		
		Volume [L9ir	1.3)]	1.23(75) 3WC + 0.74(45)ox.		
		Substrate typ	oe	monolithic		
	Type (ventil	ates to atmos	phere,	closed induction system		
	induction system, other)					
Crankcase	Energy sour	ce (manifold,	vacuum,	manifold vacuum		
Emission	carburetor,	other)				
Control	Discharges	(to intake mar	nif.,other)	intake manifold		
	Air inlet (br	eather cap, ot	her)	air cleaner		
Evapora-	Vapor vent	ed to (crank-	Fuel tank	canister		
tive emis-	case, canist	case, canister, other) Carburetor		-		
sion control	Vapor storage position			canister		
Electronic	Closed loop	(yes/no)		yes - hot engine		
system	Open loop ((yes/no)		yes - cold engine		

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single w/120 in ³ conv.&air inj.		
Muffler no. & type (reverse flow, straight through separate resonator) Material & mass [kq. (weight lbs.)]]			erse flow	
		stainless st	eel 4.67(10.3	
Resonator no.	& typenone	one straight through		
Exhaust	Branch o. d., wall thickness	50.8 x 1.4 (2.00 x 0.055)		
pipe	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-	o. d., & wall thickness	47.8 x 1.4(1.88 x 0.047)	
iate pipe	Material & mass [kg. (weight lbs.)]	stainless steel 2.36(5.2)	stainless steel 4.17 (9.2)	
Tail	o. d., & wall thickness	47.8 x 1.2 (1.88 x 0.047)		
pipe	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

MVMA Specifications Fo	rm
Passenger Car	
METRIC (U.S. Customary)	

Car Line	DODGE AR	IES			
Model Year	1987	Issued	6-20-86	Revised (●)	

METRIC (L	I.S. Custor	mary)					
Engine Description/Carb. Engine Code			2.2L (135.0 in³) EFI EDF	2.5L (135.0 in ³) EFI, EDM			
Transmiss	ions/Tran	saxle					
Manual 3-sp	eed (std., op	t., n.a.) (mfr.)	N.,				
		t., n.a.) (mfr.)	N,				
		t., n.a.) (mfr.)	standard (C	· · · · · · · · · · · · · · · · · · ·			
		opt., n.a.) (mfr.)	N.				
Automatic (optional (C				
Automatic o	verdrive (sto	d., opt., n.a.) (mfr)	N.	Α			
Manual Ti	ansmissio	ons/Transaxle					
Number of f	orward spee	eds	5				
	In first		3.2				
	In second		2.(
Transmis- sion ratios	In third		1.4				
	In fourth		1.0				
	in fifth		0.72				
	In overdrive		214				
	In reverse		3.14 all forward gears				
Synchronous		pecify gears)					
Shift lever lo		17-631	floor				
	Capacity [API SF/CC				
	SAE vis-	Summer	SAE 5W-30				
Lubricant	cosity	Winter	SAE 5W-30				
	number	Extreme cold	SAE 5W-30				
Clutch (M		nsmission)					
		nt (describe) -	Luk, dry disc	Fichtel and Sachs, dry disc			
(hydraulic, c		it (describe)	cable	cable			
Assist (yes, n			n	0			
Type pressu		nas	belle	eville			
Total spring			4400 (989)	4700 (1057)			
No. of clutch			or	ne			
	Material		woven a				
,	Manufact	urer		tar			
	Part Numb	ber	A302297201 181862101001				
	Rivets/Plat	te		6			
Clutch	Rivet Size		9.50 (0.374)	9.5 (.374)			
facing		inside diameter	215 × 154 (8.46 × 6.06)	228 x 150 (8.98 x 5.91)			
	_	area [cm² (in²)]	353.6 (54.8)	438.0 (67.9)			
	Thickness		3.45 (0.136)	3.5 (0.138)			
		ent cushion method	. wave spring				
Release	Type & me	& method angular contact ball bearing, permanently lubed with grease					

coil springs and fiber friction washers

Release Bearing

Torsional

Damping

Method: springs,

frictional material

of lubrication

Car Line DOD	GE ARIES	
Model Year 19	87 Issued <u>6-20-86</u>	Revised (•)

Engine Description/Carb. Éngine Code

2.2L (135.0 in³) 2bbl., EDE

2.5L (153.0 in³) EFI, EDM

Automatic Transmission/Transaxle

Trade Name		Torqueflite	
Type and spe	ecial features (describe)	Torque Converter with Automatically Operated Planetary Transmission and Parallel Axis Final Drive	
Selector	Location	Floor or Column Mounted	
	Ltr./No. designation	PRND21	
	R	2.10	
Gear	D	2.69, 1.55, 1.00	
ratios	La	·	
	Ĺ,	2.69, 1.55	
	L ₁	2.69	
Max, upshift speed - drive range (km/h (mph))		113 (70)	
Max. kickdo	wn speed - drive range [km/h (mph)]	105 (65)	
Min. overdri	ive speed (km/h (mph))	•	
	Number of elements	Three	
Torque	Max. ratio at stall	2.00:1	
converter	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 (st external, air	td., opt., NA, internal, r, liquid)	Std. Internal liquid	

· Axle or Front Wheel Drive Unit

Type (front,	rear)		Front	
Description			Transaxle	
Limited slip	differential (ty	ype)	N.A.	
Drive pinion	offset			
Drive pinion	(type)		Helical	
No. of differential pinions			Two	
Pinion/differ	ential adjustr	nent (shim, other)	·	
Pinion/differ	entialbearing	adjustment (shim, other)	Shim	
Driving whe	el bearing (tys	pe)	Double Row Ball	
	Capacity (L	. (pt.)]	see transaxle	
Lubricant	Type recommended		see transaxle	
Lubricant	SAE vis-	Summer	see transaxle	
	cosity number	Winter	see transaxle	
	nomber	Extreme cold	see transaxle	<u> </u>

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	Pinion	14	20	21	20
teeth	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 may be used, only if Mopar ATF is not available.

Car Line D	ODGE ARIES			
Model Year	1987 Issued	6-20-86	_Revised (•)	

Engine	Description/Carb.
Engine	Code

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

Axle Shafts - Front Wheel Drive

Number use	d	-			Two		
Type (straig	ype (straight, solid bar,		Left		Solid bar		
túbular, etč.	.)		Right		Tube		
	Manual transi	mission	Left	(a)	n.a.		
Outer diam, x			Right	(b)	n.a		
ength* x	Automatic		Left	(a)	(c)		
wall :hick-	transmission		Right	(b)	(d)		
ness	Optional	-	Left				
	transmission	_	Right				
Slip Yoke	Туре				•		
	Number of teeth				•		
	Spline o.d.				•		
	Make and mfg. no.		Inner	(e)	GKN-Eur: GI72 or Citroen or SSG #19		
	i		Outer	(f)	(g)		
,	Number used	Number useds		Two			
Universal	Type, size, plu	ınge	Inner	Tripod plunge			
joints			Outer	R	Rzeppa-fixed		
	Attach (u-bol	t, clamp,	etc.)	<u> </u>	•		
		Type (pl anti-fric	ain, tion)	·	· 		
	Bearing	Lubricat (fitting,	ion prepack)		Prepack		
Drive taken arms or spri	through (torqu	e tube,					
Torque take arms or spri	en through (toro	ue tube,	_		•		

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

- (a) GKN-US: 24.2×333.2 (0.95 x 13.12) or Citroen: 22.9×333.3 (0.90 x 13.12) or SSG: 23.9×327.5 (0.94 x 12.89) or GKN-Eur 22.9×334.5 (0.90 x 13.17)
- (b) GKN-Eur: $40.5 \times 600.8 \times 2.7$ (1.59 $\times 23.65 \times 0.10$) or GKN-US: $40.5 \times 603.3 \times 3.72$ (1.59 $\times 23.75 \times 0.146$) or Citroen: $40 \times 598.3 \times 3.2$ (1.57 $\times 23.56 \times 0.126$) or SSG: $38.0 \times 591.1 \times 5.0$ (1.50 $\times 23.27 \times 0.197$)
- (c) Citroen: 22.9×333 (0.90 × 13.1) or GKN-Eur: 22.9×331.4 (0.90 × 13.05) or SSG: 23.9×327.5 (0.94 × 12.98)
- (d) Citroen $40 \times 598.3 \times 3.2$ (1.57 × 23.56 × 0.126) or GKN-Eur: $40.5 \times 600.8 \times 2.7$ (1.59 × 23.65 × 0.106) or SSG: $38.0 \times 591.1 \times 5.0$ (1.50 × 23.27 × 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

Car Line	DODGE A	RIES			
Model Ye	ear 1987	issued 6	5-20-86	_Revised (•) _	

ME INC (C	J.S. Customary)				
Body Type A Engine Displ		Standard SDA	Heavy Duty SDB	Fleet SDD	
Suspensio	on - General				
Car	Std./opt./n.a.		N	.A.	
leveling	Type (air, hyd., etc.)			-	
	Manual/auto controlled			-	
Provision for	r brake dip control		Inclined Contro	ol Arm and Strut	
	raccl. squat control		No	one ·	
Provisions fo	or car jacking	Jac	Scissors-Ty k Supports Located	rpe Sill Jack at Each End of Body Sills	
Shock	Туре	Direct-l	Hydraulic	Front & Rear: Gas Charged	
absorber (front &	Make	Front: , Delc	o or Monroe; Re	ear: Delco, Monroe or Maremont	
rear)	Piston diameter		; 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)	
Suspensio	on - Front				
Type and de			lso-	Strut	
Drive and to	orque taken through		Lower co	entrol arm	
Travel	Full jounce	68 ((2.68)	75 (2.93)	
	Full rebound	106.2 (4.18)		99 (3.87)	
	Type (coil, leaf, other) & mat'l.	coil, AISI 5160H Chromium Steel			
r	Insulators (type & material)			on: Rubber	
Spring	Size (coil design height & i.d. bar length x dia.)	:		(9.00 x 6.00 l.D.)	
	Spring rate [N/mm (lb./in.)]	14.9 (85)	21.0(120)	21.0 (120)	
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)	24.0(140)	24.5 (140)	
Stabilizer	Type (link, linkless, frameless)		Lin	kless	
	Material & bar diameter	A101 1090 Spring steel.			
C		25.4(1.00).		27.0(1.06).	
Suspensic Type and de			Trailing Flex Ar	m with Track Bar	
D. ()				· ·	
	rque taken through Full jounce*	123.0 (4.84)			
rravei.	Full rebound	75.5 (2.97)			
	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.)			
Carden	Spring rate (N/mm (lb./in.)]	28 (160)	35(200)	42.0(240)	
Spring	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	22(126)	26.5(151)	
	Insulators (type & material)			on: Rubber	
	If No. of leaves				
	leaf Shackle (comp. or tens.)			•	
Stabilizer	Type (link,linkless,frameless)		Frameless	ERW Tube	
	Material & bar diameter			el: 25.4 (1.0) O.D.	
Track bar (t	ype)		Chanr	nel type	

^{*}from curb

Car Line	DODGE AF	RIES		<u></u>	
Model Year	1987	Issued _	6-20 - 86	Revised (•)	

Body	Туре	And/Or	
Engin	e Dis	placement	

ALL			

Brakes	- Service	<u> </u>		
Descript	Description			four-wheel hydraulic actuated system
Brake type Front (disc or drum) (std., opt., n.a.) Rear (disc or drum)		m)	disc	
			drum	
Self-adii	ustina (std.	, opt., n.a.)		standard
Special valving		oportion, delay, metering	, other)	dual proportioning valve
Power b	rake (std.,	opt., n.a.)		standard
Booster	type (remo	ote, integral, vac., hyd., et	:.)	vacuum, single or tandem
		line, pump, etc.)		intake manifold
Vacuum	reservoir	volume in.3)		••
Vacuum if other	pump-typ so state)	e (elec, gear driven, belt c	riven,	
Antı-ski	d device ty	pe (std., opt., n.a.) (F/R)		N. A.
		?(in.²)]* (F/R)		391 (60.6)
Gross lin	ing area (d	:m²(in,²)]* <u>*</u> (F/R)		406.10 (62.95)
Swepta	rea(cm²(in	. ²)]*** (F/R)		1349.32 (209.15)
	Outerv	vorking diameter	F/R	front: 235.7 (9.28)
Rotor	inner w	orking diameter	F/R	front: 159.7 (6.29)
KOLO	Thickne	ss	F/R	front: 24.0 (0.945)
	Materia	l & type (vented/solid)	F/R	front: damped cast iron, vented
Drum Diameter & width F/R		F/R	rear: 200 (7.87) × 37.62 (1.48)	
Type and material F/		F/R	rear: cast composite	
Wheel	ylinder bo			front: 54 (2.13); rear: 15.87 (0.625)
Master cylinder Bore/stroke F/R		F/R	21.0 (0.827)/32.79 (1.291)	
Pedal arc ratio		<u> </u>	all: 3.28:1	
Line pre	ssure at 44	5 N(100 lb.) pedal load [k	Pa (psi)]	power: 9854 (1390)
Lining c	learance		F/R	no major adjustments
-	T	Bonded or riveted (rivet	s/seg.)	bonded
		Rivet size		-
	1	Manufacturer		<u>Chrysler</u>
	Front	Lining code *****		CW - K -FF
	(a)	Material		molded metallic
	-	**** Primary or out-b	oard	3700 × 12.45 (5.74 × 0.490)
		Size Secondary or in-	poard	3700 × 12.45 (5.74 × 0.490)
Brake Shoe thickness (no lining))	5.30 (0.209)	
Lining	Bonded or riveted (rivets/seq.)		riveted, 10/shoe	
	Manufacturer		<u>Bendix</u>	
	Lining code *****		-	
	wheel	Material		rolled asbestos
		**** Primary or out-b	oard	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)
		Size Secondary or in-		198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)
		Shoe thickness (no lining	1)	2.17 (0.0854)

(a) area x thickness

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.

 Car Line
 DODGE ARIES

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

Body Type And/Or	ALL
Displacement	

Tires and Wheels (Standard)

	Size (load range	2)	P175/80 R 13, SL
Tires Inflation ure (cold)	Type (bias, radia	al, etc.)	Steel Radial
	Inflation pres- ure (cold) for	Front [kPa (psi)]	240 (35)
	recommended max. vehicle load	Rear [kPa (psi)]	240 (35)
Rev./mile - at 70 km/		km/h (45 mph)	870
Type & material			steel disc
Rim (size & flar	Rim (size & flan	ge type)	13 × 5.0 JB
Wheels	Wheel offset		40 (1.6)
		Type (bolt or stud)	Stud
	Attachment	Circle diameter	100 (3.94)
	ļ	Number & size	5-M 12 × 1.5mm
Tire and wheel (so other describe)		(same, if	T115/70 D14 Compact Spare 14 × 4.0 T Steel Disc Wheel
Spare Storage posi (describe)	Storage position (describe)	n & location	Sedan: Vertical, Bak 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 × 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
	1

Brakes - Parking

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

Car Line _	DODGE A	ARIES			
Model Yea	r <u>1987</u>	Issued	<u>6-20 - 86</u>	Revised (•)	

Body Type And/Or	ALL
Engine Displacement	<u> </u>

SteeringManual (std., opt., n.a.)

Manual (std., opt., n.a.)			standard	
Power (std., opt., n.a.)			optional	
Adjustable steering wheel Type and description (tilt, swing, other)		description	tilt	
•		(Std., opt.	, n.a.)	<u>optional</u>
Wheel dia	meter	Manual		381 (15)
(W9) SAE J	1100	Power		381 (15)
	Outside	Wall to w	all (l. & r.)	11.6 (38.1)
Turning diameter	front	Curb to cu	ırb (l. & r.)	10.7 (35.2)
m (ft.)	Inside	Wall to w	all (l. & r.)	6.0 (19.8)
, ,	rear	Curb to cu	ırb (l. & r.)	6.1 (20.1)
Scrub Radi	us*			-9 (-0.35)
		Туре		rack and pinion
Manual	Gear	Make		Cam Gears
Manual	Gear		Gear	**
		Ratios	Overall	22:1
	No. wheel	turns (stop	to stop)	4
Type (coaxial, linkage, etc.)		, etc.)	integral power unit	
Make			TRW	
		Туре		rack and pinion with integral power unit
Power	Gear	Ratios	Gear	
			Overall	18.3:1
	Pump (dri	ve)		pulley and belt, off crankshaft
		turns (stop	to stop)	3.2
	Туре			rack and pinion (rod and ball directly attached to gear)
Linkage		front or rea , other)	r	rear of wheels
	Tie rods (c	ods (one or two)		2 (tie rod inners integral with rack and pinion gear)
	+	at camber	(dea.)	13.3
Steering		Upper	, - <u></u>	ball bearing
Axis	Bearings			ball joint
	(type)	(type) Cower Thrust		ball bearing
Steering s	pindle & joir	1		Iso-Strut with lower ball joint
	Diameter	T	ring	76/42 (3.0/1.65) dia.; 37/40 (1.46/1.57) wide
Wheel		Outer be		7-
spindle	Thread (si			M22×1.5
		aring (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.

Car Line D	<u>ODGE ARI</u>	ES			
Model Year	1987	Issued	6-20-86	Revised (•)	

Body	Туре	And/Or
Engin	e Dis	placement

All	

Wheel Alignment

		Caster (deg.)	-	
	Service checking	Camber (deg.)	-0.2° to +0.8°	
	Cilecking	Toe-in (deg)	0.4° Toe-in to 0.2° Toe-out	
Front wheel at	Service	Caster	Not adjustable	
curb mass	reset*	Camber	Same as above	
(wt.)		Toe-in	Same as above	
	Periodic M.V. in- spection	Caster	•	
		Camber	-	
		Toe-in	•	
	Service checking	Camber	-1.3° to +0.3°	
Rear		Toe-in [outside track-mm (in.)]	0.6° Toe-out to 0.6° Toe-in (b)	
wheel at	Service Camber		Same as above (shim)	
curb mass (wt.)	reset*	Toe-in	Same as above (shim)	
(44 (.)	Periodic	Camber	•	
	M.V. in- spection	Toe-in		

^{*} Indicates pre-set, adjustable, trend set or other

Electrical - Instruments and Equipment

Standard Cluster

Certified Cluster (a)

Speed-	Туре	Magnetic torque drive		
ometer	Trip odometer (std., opt., n.a.)	Standard		
EGR maintena	ance indicator			
Charge	Туре	Voltmeter		
indicator	Warning device	-		
Temp.	Туре	Magnet	tic gage	
ndicator	Warning device			
Oil pressure	Туре	Light	Magnetic gage	
indicator	Warning device	<u> </u>	Light	
indicator	Туре	Magnetic gage		
	Warning device	•		
	Type (standard)	Electric 2-speed, Non-depressed park		
Wind shield	Type (optional)	Electric 2-speed, Intermittent wipe		
wiper	Blade length	406.4 (16)		
	Swept area [cm²(in.²)]	5413	(839)	
	Type (standard)	Electric (arr	n mounted)	
Windshield washer	Type (optional)		<u> </u>	
	Fluid level indicator	Opti	onal	
Horn	Type mm (in.)	102 mm (4.0	in.) seashell	
	Number used	1 or 2 (low note - Std)		

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

Car Line _ D	ODGE ARIE	S	
Model Year	1987 Issu	ed 6-20-86	Revised (•)

Engine Description/Carb.	
Engine Code	

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

Electrical - Supply System

<u> </u>	Make	Mopar			
	Model, std., (opt.)	Group 26 (Group 34)	Group 34		
	Voltage	12V	/		
9attoni	Amps at 0°F cold crank	335(500)	400(500)		
Battery	Minutes-reserve capacity	62 (110)	100(110)		
	Amp/hr 20 hr. rate	42 (66)	60 (66)		
	Location	Left front fender	side shield		
	Manufacturer	Chrysler or Robert Bosch			
Alternator	Rating	90 Amp			
Aiternator	Ratio (alt. crank/rev.)	2.4:1			
	Optional (type & rating)	•			
Regulator	Туре	(a)			

Electrical - Starting System

Start, motor	Current drain at 0°F	210-250A	230-280 A	
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)	
	Make		UTC	Prestolite	Diamond
e_:1	Model		5226865	5227372	5227252
Coil	Current	Engine stopped - A		3.0A	
		Engine idling - A		1.9A	
	Make		Champion		
	Model		RN12YC		
park	Thread (mm)		14 mm		
park lug	Tightening torque [N-m (lb-ft)]		28 (20)		
	Gap		0.9 (0.035)		
	Number per cylinder		one		
Distributor	Make	- 1		Chrysler	
5.51,.56101	Model		5226575		5226575

Electrical - Suppression

Locations & type	

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

MVMA	Specifications	Form
Passen	ger car	
METRIC	U.S. Customary)	

Car Line DOD	GE ARIES	5			
Model Year 1	987	<u>Issued</u>	6-20-86	Revised(•)	

			r			
Body Type			21,41	45		
Body				· ·		
Structure						
Bumper system			Front - Urethane Fasc Steel 9.8 kg.			
front - rear			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 g	Extensive use of galvonized steel		
Body - Mis	cellaneous Information	-				
	(lacquer, enamel, other)		Buffable acrylic enamel			
	Hinge location (front, rear)		Rear			
Hood	Type (counterbalance, pr		Counterbalanced, clockspring			
	Release control (internal	, external)	Internal			
Trunk-	Type (counterbalance, of	:her)	Counterbalanced, Forsion bar			
lid	Internal release control (elec., mech., n.a.)				
Hatch-	Type (counterbalance, of			Gas Prop		
back lid	Internal release control (•-			
Station Wagon						
Vent window	control (crank,	Front	Nor	ne		
friction, pivo	, ,	Rear	None			
Seat cushion		Front	Bucket - Flex-			
	• '	Rear	Full foam with zig za			
(e.g., 60/40, bucket, bench, Rear 3rd seat						
Seat back type Front		Bucket - Flex-	O-Lator Mat			
(e.g., 60/40, bucket, bench,		Formed				
wire, foam, e		3rd seat				
wire, roam, e	SS.J	Jid Seat				
			†			

MVMA	Specifications Forr	n
Passen ^e	ger Car	
METRIC (U.S. Customary)	

Car Line D	ODGE AR	IES			
Model Year	1987	Issued	6-20-86	Revised (•)	

Body Type	21	41	45
	L		· · · · · · · · · · · · · · · · · · ·

Restraint System

*********	it system.			
	Standard/optional	Standard		
Active restraint system	Type and description	Front: Outboard lap and shoulder belt Rear: Lap belt		
	Location	Front: two Rear: three		
<u>-</u> -	Standard/optional	-		
Passive seat belts	Power/manual	-		
peitz	2 or 3 Point	-		
	Knee bar/lap belt	_		

Frame

Type and description (separate frame, unitized frame, partially unitized frame)		Unitized construction			
Glass	SAE Ref. No.				
Vindshield glass exposed urface area [cm²(in²)]	\$1		8069 (1251)		
Side glass exposed surface area [cm²(in²)]	\$2	9227 (1430)	9647(1495)	15542(2409)	
Backlight glass exposed surface area (cm²(in²))	\$3	4559 (707)	5139 (797)	5234 (811)	
Total glass exposed surface area (cm²(in²))	\$4	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			

Car Line DODGE ARIES							
Model Year	1987	Issued 6-20-86	Revised(•)				

All

	3	
Body Type		

Air conditioning (r	quipment (standard, optional, n.a.)	Manual - Opt.		
auto, temp. contro				
Clock (digital, analog)		Digital - Std. with radio		
Compass/thermon		N.A.		
Console (floor, ove		Full Floor - Opt. Mini - Std.		
Defroster, elec. ba		EBL - Opt.		
	Diagnostic warning (integrated, individual)	N.A.		
	Instrument cluster (list instruments)	N.A.		
Electronic	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.		
	Auto head on/off delay, dimming	N.A.		
	Cornering	N.A.		
	Courtesy (map reading)	Std Medium		
	Door lock, ignition	Ignition Opt.		
Lamps	Engine compartment	Opt.		
P-	Fog	• N.A.		
	Glove compartment	Std Medium		
	Trunk	Std Medium		
	Other	Dome Std.		
	Shift indicator	Std. N.A. with automatic		
	Day/night (auto. man.)	Manual - Std.		
Mirrors	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 - a	uto release (warning light)	Std.		
3.50	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)			
Power equipment	rectining (driver, pass.) memory (1-2 preset, recline)	•		
equipment	Side windows	N.A.		
	Vent windows	N.A.		
	Rear windows	N.A.		
Radio	Antenna (location, whip, w/shield, power)	Whip - Std Right front fender		
Systems	AM,FM, stereo, tape, CB	Am Electronically Tuned Radio-Std Medium Opt-Low		
-,	Speaker (number, location) Premium sound	N.A		
Roof open air/fixe	ed (flip-up, sliding, "T")	N.A.		
Speed control dev		Opt.		
	evice (light, buzzer, etc.)	N.A		
Tachometer (rpm		N.A.		
		N.A.		
Telephone system - mobile Theft protection-type		Inside Hood Release-Std. Glove Box Lock-Std.		
		Locking Steering Column-Std. Anti-theft Labels-Std.		

Car Line **DODGE ARIES**

Model Year 1987 Issued

Issued 6-20-86 Revised

Cae and Body Dimensions

See Key Sheets for Definitions

All dimensions to ground are for comparitive 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			1462 (57.6)	
Tread (front)	W101		1462 (57.6)	
Tread (raer)	W102		1453 (57.2)	
Vehicle width	W103		1727 (68.0)	
Body width at SgRP (front)	W117	4040 (450.3)	1725 (67.9)	2E 1\
Vehicle width (front doors open)	W120	4019 (158.2)	3431 (1	33.1)
Vehicle width (rear doors open)	W121		3142 (123.7)	
Front fender overall width	W106	 -	1709 (67.3) 1727 (68.0)	
Rear fender overall width	W107		23°	· · ·
Tumble-home (deg.)	W122		23	
Length	1.00	2548	(100.3)	2550 (100.4)
Wheelbase	L101		(178.6)	4533 (178.5)
Vehicle length	L103	453/	985 (38.8)	<u> </u>
Overhang (front)	L104	1004	(39.5)	998 (39.3)
Overhang (rear)	L105	1004	2937 (115.6)	
Upper structure length	L123	2636	(103.8)	2638 (103.9)
Rear wheel C/L "X" coordinate	L127	2030	535 (21.1)	2000 (100.0)
Cowl point "X" coordinate	L125	···	1432 (56.4)	····
Front end length at centerline Rear end length at centerline	L126	897	(34.9)	164 (6.5)
··	1.5.55			
Height*	PD 1,2,3		2 - Front 3 - Rear	
Passenger distribution (front/rear)	F01,2,3			
Trunk/cargo load	H101	1333 (52.5)	1343 (52.9)	1351 (53.2)
Vehicle height	H114		(35.9)	913 (35.9)
Cowl point to ground	H138		(34.9)	858 (33.8)
Deck point to ground	H112		206 (8.1)	
Roker panel front to ground Bottom of door closed front to ground	H133	251 (9.9)		(10.1)
Rocker panel rear to ground	H111		178 (7.0)	<u> </u>
Bottom of door closed rear to ground	H135	••		6 (9.7)
Windshield slope angle	H122		53°	
Backlight slope angle	H121	32°		34°
Ground Clearance	111103		299 (11.8)	
Front bumper to ground	H102	274 (294 (11.6)
Rear bumper to ground	H104	2/4(10.0)	237(11.0)
Bumper to ground (front	H103	_318(12 5)	314 (12.4)
at curb mass (wt.)]	U105	310[14.3]	J17([2,7]
Bumper to ground (rear	H105	356 (14.0\	376 (14.8)
at curb mass (wt.)	11126	330 (18°	370(17.0)
Angle of approach (degrees)	H106	<u>.</u>	16°	17°
Angle of departure (degrees)	H107		11°	12°
Ramp breakover angle (degrees)	H147		N.A.	1 14
Axle differential to ground (front/rear)	H153	117		116 (4.6)
Min. running ground clearance	H156	11/1 Ent C.ion	C'mbr Brit (laft h	
Location of min. run. ground clearance	<u>_</u>	rrc. susp	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 C-87

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

Car Line **DODGE ARIES**

Model Year 1987 Issued 6-20-86 Revised(•)

See Key Sheets for Definitions

Body Type

200	Key sileets for Definition	113		
SAE				
Ref.	21	41	45	
No.	Bucket .	Bucket	Bucket	ŀ

Front Compartment				·
SgRP 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)	
SgRP to heel point	H30		264 (104)	
SgRP to heel point	L53		864 (34.0)	
Back angle	L40		24°	
Hip angle	L42		<u>9</u> 7°	
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)	140	7 (55.4)
Hip room	W5	1416 (55.7)	141.	2 (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	н67		22 (0.9)	

Rear Compartment

Ticor compartment				
SgRP Point couple distance	L50	791 (31.1) 785 (30.9)		785 (30.9)
Effective head room	н63	940 (37.0)	960 (37.8)	977 (38.5)
Min. effective leg room	L51	913 (3	35.9)	907 (35.7)
SgRP (second to heel)	Н31		281 (11.1)	
Knee clearance	L48	16 (0	0.6)	10 (0.4)
Compartment room	L3	631 (2	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.	12	14 (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.)]	٧ì	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	5.039)	34.579

^{*} See Page 14

MVMA Specifications Form Passenger car

METRIC (U.S. Customary) **Car and Body Dimensions** Car Line **DODGE ARIES**

_lssued__**6-20-86** Model Year 1987 Revised(*)

See Key Sheets for Definitions

Body Type

	30010	cy streets to be minuted.	
Γ	SAE		
	Ref.	21, 41	45
	No.	•	

Station Wagon - Third Seat

Capp sample distance	L85	
SgRP couple distance		
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	Н86	
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

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 [m³(ft.3)]	V2		1.917 (67.7)
Hidden cargo volume [m³(ft.³)]	V4		0.028 (1.0) (b)
Cargo volume index-rear of 2-seat	V10	/	988 (34.9)

Hatchback - Cargo Space

L208	
L209	
L210	
L211	
H197	
H198	
V3	
V4	
V10	
	L209 L210 L211 H197 H198 V3 V4

Aerodynamics*

Wheel lip to ground, front	631 (24.8)		
Wheel lip to ground, rear	622 (24.5)	- 634 (24.96)	
Frontal area [m ³ (ft. ³)] (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

Car Line DODGE ARIE	<u> </u>			
Model Year 1987	Issued	6-20-86	Revised(e)	

Body Type		All
<u>Vehicle Fid</u>	ucial Mar	ks
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.
Fiducial		
Mark		·
Number		
	W21	433.5 (17.1)
	L54	925 (36.4)
Front	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	H163	
	W22	527.6 (20.8)
	L55	3452.4 (135.9)
Rear	H82	236 (9.3) Bottom Surface of Longitudinal
	H162	
	W164	

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

Car Line DODGE ARIE	<u>.</u>			
Model Year 1987	Issued	6-20-86	Revised(*)	 •

45

777.0 (30.6)

ody Type			21, 41	45
Lamps and H	eadlamps Sha	pe*		
Headlamp		Highest**	677.	4 (26.7)
	(SAE - H127)	Lowest		
Height above ground	Taillamp	Highest**	672.9 (26.5)	758.0 (29.8)
to (SAE - H128) center of bulb or marker Sidemarker	Lowest			
		Front	677.	4 (26.7)
	Sidemarker	Rear	332.5 (13.1)	758.0 (29.8)
		Inside		
	Headlamp	Outside**	554.	0 (21.8)
Distance from centerline of car to center of bulb or marker Directional		Inside		
	Taillamp -	Outside**	569.2 (22.4)	774.0 (30.5)
	-	Front	751.	0 (29.6)
	Directional	 		

21,41

Halogen	Lo beam	<u>Standard</u>	
headlamp	Hi beam	Standard	
(std., opt., n.a.)	Replaceable bulb	N.A	
,,	Shape	Rectangular	
Headlamp	Lo beam		
ther than	Hi beam		
bove	Replaceable bulb		
	Shape		
	Type		

569.2 (22.4)

Rear

^{*} Measured at curb mass (weight)

^{**} If single lamps are used enter here.

Car Line DODGE ARIES	<u> </u>	
Model Year 1987	Issued <u>6-20-86</u>	Revised(*)

Estimated

	Vehicle Mass (Weight)							
Model	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION			SHIPPING	
	- F		Total	Pass, in Front		Pass. in Rear		MASS, kg
				Front	Rear	Front	Rear	(weight, lb.)**
<u>Aries</u>	_ <u></u>						<u> </u>	
2.2L (135.0 in.3) EDF engine	·				<u> </u>			
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)
Aries 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)
							T	
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-

Carline DC	DGE AR	IES _			
Model Year	1987	Issued	6-20-86	Revised(•)	

Estimated

	Optional Equipment Differential Mass (Weight)*					
	MASS, kg (weight, lb.)			Remarks		
Equipment	Front	Rear	Total			
2.5L (153.0 in. ³) EDM	42	2	40	LE only and auto, trans.		
	(93)	(-5)	(88)			
Automatic transmission	18	-1	_17			
	(41)	(-3)	(38)			
Air conditioning	26.8	-2.3	24.5			
	(59)	(-5)	(54)			
Power steering	9.1	0.4	9.5			
	(20)	(1)	(21)			
Power door locks	1.4	0.4	1.8	two-door		
	(3)	(1)	(4)			
	2.3	1.3	3.6	four - door and station wagon		
	(5)	(3)	(8)			
Bench seat	4.1	5.0	9.1	LE two door, automatic trans. only		
	(9)	(11)	(20)			
	3.6	4.1	7.7	LE four door and station wagon		
	(8)	(9)	(17)	automatic transmission only		
Console	1.4	1.4	2.8	<u> </u>		
	(3)	(3)	(6)			
AM Stereo/FM Stereo radio	1.7	2.3	4.0	Aries		
	(4)	(5)	(9)			
	0.4	1_4	1.8	Aries LE		
	(1)	(3)	(4)			
500 ampere battery	5.9	-0.9	5.0			
	(13)	(-2)	(11)			
Rear wiper washer	-0.9	4.5	3.6	Station wagon only		
	(-2)	(10)	(8)			
uggage rack	0.4	5.0	5.4	Station wagon only		
	(1)	(11)	(12)			
pecial sound insulation	0.4	2.3	2.7	Sedan		
	(1)	(5)	(6)			
	0	10.9	10.9	Station wagon		
	(0)	(24)	(24)			
Front & rear floor mats	2	1	3			
	(4)	(3)	(7)			
Tonneau cover	0	23	2.3	Station wagon		
	_(0)	(5)	(5)			
Conventional spare tire		15	8	Sedan		
	(-15)	(32)	(17)			
	5	11	6	Station wagon		
	(-10)	(24)	(14)			
Undercoating	0.9	1.4	2.3			
	(2)	(3)	(5)			
	<u></u>	T				
		1				
•						
						

^{*} Also see Engine - General fopr dressed engine mass (weight).