

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

Passenger Car

1987

Manufacturer CHRYSLER MOTORS	Car Line DODGE LANCER	
Mailing Address DETROIT, MICHIGAN 48288	Issued JUNE 20, 1986	Revised

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

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Table of Contents

1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
8-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
12-13	Brakes
13	Tires and Wheels
14-15	Steering
15-16	Electrical
17	Body – Miscellaneous Information
18	Restraint System
18	Frame
18	Glass
19	Convenience Equipment
20-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Differential Mass (Weight)
27-33	Car and Body Dimensions Definitions - Key Sheets
34	Index

NOTE:

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

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

Car Line **DODGE LANCER**

Model Year **1987** Issued **6-20-86** Revised (a) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
LANCER-FWD 5-Door Sport Sedan	SEPT. 1986	DH44	5(2/3)	52(115)
LANCER ES-FWD 5-Door Sport Sedan	SEPT. 1986	DS44	5(2/3)	52(115)

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

Car Line **DODGE LANCER**

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.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in. ³)	Carb. (Barrel, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N-m (lb. ft.)			
STD.	2.2L (135) EDF	EFI	9.5	72 (97) @ 5200	165 (122) @ 3200	S	MANUAL 5-Speed	2.51
				AUTOMATIC			3.02	
OPT.	2.2L (135) EDG	EFI Turbo	8.1	109 (146) @ 5200	230 (170) @ 3600	S	MANUAL 5-Speed	2.51
				AUTOMATIC			3.02	
OPT.	2.5L (153) EDM	EFI	9.0	75 (100) @ 4800	180 (133) @ 2800	S	MANUAL 5-Speed	2.51
				AUTOMATIC			3.02	

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

Car Line **DODGE LANCER**

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

Engine description/Carb.
 Engine Code

2.2L (135.0 in³)
EFI, EDF

2.2L (135.0 in³)
EFI Turbo, EDG

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Four-cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke (C/L to C/L)	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block mat'l. & mass kg (lbs.) (machined)	Cast Iron 35.79 (78.9)	Cast Iron 35.46 (78.2)
Cylinder block deck height	237.8 (9.36)	
Cylinder block length	418 (16.46)	
Deck clearance (minimum) (above or below block)	0.00	
Cylinder head material & mass kg (lbs.)	Aluminum 9.71 (21.4)	
Cylinder head volume (cm ³)	48.5 -51.5	
Cylinder liner material	n.a.	
Head gasket thickness (compressed)	1.78 (.070)	
Minimum combustion chamber total volume (cm ³)	Clearance volume: 65.31	Clearance Volume: 73.815
Cyl. no. system	Right to left as installed in car 1, 2, 3, 4	
(front to rear)*		
Firing order	1, 3, 4, 2	
Intake manifold mat'l. & mass [kg(lbs.)]**	Aluminum 2.62 (5.8)	Aluminum 2.13 (4.7)
Exhaust manifold mat'l. & mass [kg(lbs.)]**	Cast iron 6.23 (13.7)	Cast iron 4.26 (9.4)
Recommended fuel (leaded, unleaded, diesel)	Regular unleaded	Super or premium unleaded
Fuel antiknock index $\frac{R+M}{2}$	87 octane or higher	91 octane or higher (recommended) 87 octane or higher (acceptable)
Total dressed engine mass (wt) dry***	128.64 (283.6)	135.44 (298.6)

Engine - Pistons

Material & mass, g (weight, oz.) piston only	Aluminum	
	440 (15.7)	443 (15.2)

Engine - Camshaft

Location	Overhead	
Material & mass kg (weight, lbs.)	Hardenable cast iron	
	2.92 (6.4)	2.95 (6.5)
Drive type	Chain/belt	Belt
	Width/pitch	Width: 24.7 (0.972); Pitch: 9.52 (0.375)

*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

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

Car Line **DODGE LANCER**

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

Engine description/Carb.
 Engine Code

2.5L (153.0 in³)
EFI, EDM

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc.	Four-cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke (C/L to C/L)	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block mat'l. & mass kg (lbs.) (machined)	Cast Iron 39.42 (86.9)	
Cylinder block deck height	249.8 (9.83)	
Cylinder block length	418 (16.46)	
Deck clearance (minimum) (above or below block)	0.00	
Cylinder head material & mass kg (lbs.)	Aluminum 9.71 (21.4)	
Cylinder head volume (cm ³)	48.5-51.5	
Cylinder liner material	n.a.	
Head gasket thickness (compressed)	1.78 (.070)	
Minimum combustion chamber total volume (cm ³)	Clearance Volume: 73.815	
Cyl. no. system (front to rear)*	L. Bank	Right to left as installed in car 1, 2, 3, 4
	R. Bank	
Firing order	1, 3, 4, 2	
Intake manifold matl. & mass (kg(lbs.))**	Aluminum 2.61 (5.8)	
Exhaust manifold matl. & mass (kg(lbs.))**	Cast iron 6.23 (13.7)	
Recommended fuel (leaded, unleaded, diesel)	Regular unleaded	
Fuel antiknock index	$\frac{R + M}{2}$	87 octane or higher
Total dressed engine mass (wt) dry***	140.57 (309.9)	

Engine - Pistons

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

Engine - Camshaft

Location		Overhead
Material & mass kg (weight, lbs.)		Hardenable cast iron 2.92 (6.4)
Drive type	Chain/belt	Belt
	Width/pitch	Width: 23.8 (0.937); Pitch: 9.52 (0.375)

*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

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued **6-20-86**

Revised(•)

Engine description/Carb.

Engine Code

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

2.5L (153.0 in.3)
EFI, EDM

Engine - Valve System

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

Engine - Connecting Rods

Material & Mass [kg., (weight lbs.)]	Forged steel (0.63 (1.4)	Forged steel 0.67 (1.5)
--------------------------------------	--------------------------	-------------------------

Engine - Crankshaft

Material & Mass [kg., (weight lbs.)]	Nodular iron 15.19 (33.5)	Forged steel 16.52 (36.4)
End thrust taken by bearing (no.)	Three	
Number of main bearings	Five	
Seal (material, one, two piece design, etc.)	Front	One piece
	Rear	One piece

Engine - Lubrication System

Normal oil pressure [kPa (psi) at eng. rpm]	25 - 80 psi @ 3000
Type of intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4)

Engine - Diesel Information

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

Engine - Intake System

Turbo - charger - Manufacturer	Garrett	N.A.
Super - charger - manufacturer	N.A.	
Charge cooler	N.A.	

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

2.2 L (135.0 in. ³) EFI, EDF 2.5 L (153.0 in. ³) EFI, EDM		2.2 L (135.0 in. ³), EDG	
W/O AC	W/AC	W/O AC	W/AC

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure (kPa (psi))		96-124 (14-18)	
Circulation thermostat	Type (choke, bypass)	Choke, Pellet Operated	
	Starts to open at °C(°F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump RPM	-	
	Number of pumps	One	
	Drive (V-belt, other)	Multi-Groove Belt	
	Bearing type	Integral Ball Bearing	
	Impeller material	Steel	
	Housing material	Cast Aluminum	
By-pass recirculation [type (inter., ext.)]		external	
Cooling System	With heater - L(qt.)	8.5 (9.0)	
	With air cond. - L(qt.)	8.5 (9.0)	
Capacity	Opt. equip. [specify - L(qt.)]	--	
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		No	
Water jackets open at head face (yes, no)			
Radiator Core	Std., A/C, HD		
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin&tube, mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row	
	Material, mass[kg(wt., lbs.)] (a)	(b) 4.63 (10.2)	(b) (c),
	Width	533.4 (21.0)	
	Height	387.6 (15.26)	
	Thickness	17.8 (0.7)	
	Fins per inch	13	15 man., 20 auto.
Radiator end tank material		Nylon 66	
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	2-Blade Metal	5-Blade Metal
	Diameter & projected width	315(12.4)/33(1.3)	360 (14.2) / 46 (1.8)
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	1815	1790
	Motor rating (wattage) (elec.)	65	130
	Motor switch (type & loc.) (elec.)	Thermistor, Water Box & A/C	
	Switch point (temp., press.) (elec.)	99 °C (210° F) (Low Speed); 110 °C (230° F) (High Speed)	
	Fan shroud (material)	Metal	

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

(b) Copper-brass

(c) 4.55 (10.0) man., 5.03 (11.1) auto.

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Passenger Car
METRIC (U.S. Customary)

Car Line **DODGE LANCER**

Model Year **1987**

Issued **6-20-86**

Revised (●) _____

Engine Description/Carb.
 Engine Code

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

Induction type: carb., fuel inj. sys., etc.			electronic fuel injection	
Carburetor	Mfr.		Bosch or Holly	Bosch
	Choke (type)		none	none
	Idle spd. rpm (spec. neutral or drive and propane if used)	Manual		
		Automatic	700	800
Idle A/F mix				
Fuel Injection	Point of injection (no.)		throttle body (1)	port injection (4)
	Constant, pulse, flow		pulse	
	Control (electronic, mech.)		electronic	
	System pressure [kPa (psi)]		100 (14.5)	379.6 (55.1) ± manifold vacuum
Intake manifold heat control (exhaust or water thermostatic or fixed)			water	none
Air cleaner type	Standard		oil-wetted paper element	
	optional		--	
Fuel pump	Type (elec. or mech.)		electric	
	Location (eng., tank)		in fuel tank	in fuel tank
	Pressure range [kPa (psi)]		116-262 @ 12V & 15 PSI (a)	184-352 @ 12v & 55 PSI (a)

Fuel Tank

Capacity [refill L (gallons)]		53 (14.0)
Location (describe)		forward of axle
Attachment		Galv. or terne plated strap to floor
Material & mass [kg (weight lbs.)]		terne plated steel 9.34(20.6) terne plated steel 10.16 (22.4)
Filler pipe	Location & material	external, right rear quarter panel; lead dipped steel
	Connection to tank	rubber grommet
Fuel line (material)		duplex-coated steel
Fuel hose (material)		fuel resistant rubber
Return line (material)		duplex-coated steel
Vapor line (material)		terne plated steel
Extended range tank	Opt., n. a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n. a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

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

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

2.5L (153.0 in.³) EFI EDM	2.2L(135.0in³) EFI EDF	2.2L (135.0 in.³) Turbo, EFI EDG
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Vehicle Emission Control

Type (air injection, eng. modifications)		(a)	(b)
Exhaust Emission Control	Air injection	Pump or pulse	pulse
		Driven by	exhaust pressure
		Air distribution (head, manifold, etc.)	single point
		Point of entry	exhaust manifold collector
			--
	Exhaust Gas Recirc- ulation	Type (controlled flow, open orifice, other)	controlled flow
		Exhaust source	manifold collector
		Point of exhaust inj. (spacer, carb., manif., etc.)	intake manifold
	Catalytic Converter	Type	3 - Way + oxidation
		Number of	one
		Location(s)	below exhaust manifold
		Volume [L9in. ³]	1.23(75) 3WC + 0.74(45)ox.
		Substrate type	monolithic
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system
	Energy source (manifold, vacuum, carburetor, other)		manifold vacuum
	Discharges (to intake manif., other)		intake manifold
	Air inlet (breather cap, other)		air cleaner
Evapora- tive emis- sion control	Vapor vented to (crank- case, canister, other)	Fuel tank	canister
		Carburetor	--
	Vapor storage position		canister
	Closed loop (yes/no)		yes - hot engine
	Open loop (yes/no)		yes - cold engine

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single w/120 in ³ conv.& air inj.	single w/110 in ³ converter
Muffler no. & type (reverse flow, straight through separate resonator) Material & mass [kg. (weight lbs.)]		one reverse flow stainless steel 5.22 (11.5)	stainless steel 6.08 (13.4)
Resonator no. & type		none	none
Exhaust pipe	Branch o. d., wall thickness	50.8 x 1.4 (2.00 x 0.055)	57/63.5 x 1.4(2.2/2.5x0.055)
	Main o. d., wall thickness	47.8 x 1.4(1.88 x 0.055)	63.5 x 1.4(2.50 x 0.055)
	Material & mass [kg. (weight lbs.)]	stainless steel 5.30 (11.7)(e)	stainless steel 1.23(2.7)
Intermed- iate pipe	o. d., & wall thickness	(d)	(c)
	Material & mass [kg. (weight lbs.)]	stainless steel 2.57 (5.7)	stainless steel 8.03 (17.7)(f)
Tail pipe	o. d., & wall thickness	(d)	(c)
	Material & mass [kg. (weight lbs.)]	stainless steel (see muffler assembly)	

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

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

(c) 47.8 x (1.88 x .047)

(d) 47.8 x 1.2(1.88 x 0.047)

(e) EDF engine includes 1.56 kg.(3.44 lbs.) - Federal, 1.69 kg.(3.72 lbs.) - California, substrate and stainless steel mesh

EDM engine includes 1.56 kg.(3.44lbs.) - federal manual trans., 1.69 kg. (3.72lbs.) - federal auto. trans. & California, substrate and stainless steel mesh

(f) Includes 1.52 kg.(3.34 lbs.) substrate and stainless steel mesh

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

2.2L (135.0 in ³) EFI EDF	2.2L (135.0 in ³) TURBO EFI EDG
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Transmissions/Transaxle

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

Manual Transmissions/Transaxle

Number of forward speeds		5
Transmis- sion ratios	In first	3.29
	In second	2.08
	In third	1.45
	In fourth	1.04
	In fifth	0.72
	In overdrive	--
	In reverse	3.14
Synchronous meshing (specify gears)		all forward gears
Shift lever location		floor
Lubricant	Capacity [L(pt.)]	2.3L (4.81 pt.)
	Type recommended	API SF/CC
	SAE vis- cosity number	Summer SAE 5W-30
		Winter SAE 5W-30
		Extreme cold SAE 5W-30

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Luk, dry disc cable	Fichtel and Sachs, dry disc cable
Assist (yes, no/percent)		no	
Type pressure plate springs		belleville	
Total spring load [N(lb.)]		4400 (989)	5800 (1304)
No. of clutch driven discs		one	
Clutch facing	Material	woven asbestos	
	Manufacturer	Textar	
	Part Number	A302297201	181862101001
	Rivets/Plate	16	
	Rivet Size	9.50 (0.374)	9.5 (.374)
	Outside & inside diameter	215 x 154 (8.46 x 6.06)	228 x 150 (8.98 x 5.91)
	Total eff. area [cm ² (in ²)]	353.6 (54.8)	438.0 (67.9)
	Thickness	3.45 (0.136)	3.5 (0.138)
Engagement cushion method		wave spring segments	
Release Bearing	Type & method of lubrication	angular contact ball bearing, permanently lubed with grease	
Torsional Damping	Method: springs, frictional material	coil springs and fiber friction washers	

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Engine Description/Carb.
 Engine Code

2.5L (153.0 in³)/EFI
EDM

Transmissions/Transaxle

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

Manual Transmissions/Transaxle

Number of forward speeds		5
Transmission ratios	In first	3.29
	In second	2.08
	In third	1.45
	In fourth	1.04
	In fifth	0.72
	In overdrive	--
	In reverse	3.14
Synchronous meshing (specify gears)		all forward gears
Shift lever location		floor
Lubricant	Capacity [L(pt.)]	2.3L (4.81 pt.)
	Type recommended	API SF/CC
	SAE viscosity number	Summer SAE 5W-30
		Winter SAE 5W-30
		Extreme cold SAE 5W-30

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Fichtel and Sachs, dry disc cable
Assist (yes, no/percent)		no
Type pressure plate springs		Belleville
Total spring load [N(lb.)]		4700 (1057)
No. of clutch driven discs		one
Clutch facing	Material	woven asbestos
	Manufacturer	Textar
	Part Number	181862101001
	Rivets/Plate	16
	Rivet Size	9.5 (0.374)
	Outside & inside diameter	228 x 150 (8.98 x 5.91)
	Total eff. area [cm ² (in ²)]	438.0 (67.9)
	Thickness	3.5 (0.138)
Engagement cushion method		wave spring segments
Release Bearing	Type & method of lubrication	angular contact ball bearing, permanently lubed with grease
Torsional Damping	Method: springs, frictional material	coil springs and fiber friction washers

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Passenger Car
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Engine Description/Carb.

Engine Code

2.2L (135.0 in³) EFI, EDF
2.5L (153.0 in.³) EFI, EDM

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

Automatic Transmission/Transaxle

Trade Name		Torqueflite	
Type and special features (describe)		Torque Converter with Automatically Operated Planetary Transmission and Parallel Axis Final Drive	
Selector	Location	Floor Console Mounted	
	Ltr./No. designation	PRND21	
Gear ratios	R	2.10	
	D	2.69, 1.55, 1.00	
	L ₃	-	
	L ₂	2.69, 1.55	
	L ₁	2.69	
Max. upshift speed - drive range [km/h (mph)]		113 (70)	129 (80)
Max. kickdown speed - drive range [km/h (mph)]		105 (65)	119 (74)
Min. overdrive speed [km/h (mph)]		-	
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.00:1	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	241 (9.5)	
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) (a)	
	Type recommended	Mopar ATF Plus (Auto. Trans. Fluid - Type 7176)(b)	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std. Internal liquid	

Axle or Front Wheel Drive Unit

Type (front, rear)			Front
Description			Transaxle
Limited slip differential (type)			N.A.
Drive pinion offset			-
Drive pinion (type)			Helical
No. of differential pinions			Two
Pinion/differential adjustment (shim, other)			
Pinion/differential bearing adjustment (shim, other)			Shim
Driving wheel bearing (type)			Double Row Ball
Lubricant	Capacity [L (pt.)]		see transaxle
	Type recommended		see transaxle
	SAE viscosity number	Summer	see transaxle
		Winter	see transaxle
		Extreme cold	see transaxle

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

Axle ratio (or overall top gear ratio)		2.51	3.02
No. of teeth	Pinion	14	21
	Ring gear or gear	49	60
Ring gear o.d.		197.46 (7.77)	187.40 (7.38)
Transaxle	Transfer gear ratio	--	1.06
	Final drive ratio	3.50	2.86

(a) Torque Converter, Transmission, and Differential

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

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

2.2L (135.0 in.³)
EFI, EDF

2.2L (135.0 in.³)
EFI Turbo, EDG

Axle Shafts - Front Wheel Drive

Number used			Two	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar	
		Right	Tube	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	(a)	(c)
		Right	(b)	(c)
	Automatic transmission	Left	(a)	(c)
		Right	(b)	(c)
	Optional transmission	Left	-	-
		Right	-	-
Slip Yoke	Type		-	
	Number of teeth		-	
	Spline o.d.		-	
Universal joints	Make and mfg. no.	Inner	(d)	GKN-Eur: GI72 or Citroen or SSG #19
		Outer	(e)	(f)
	Number used		Two	
	Type, size, plunge	Inner	Tripod plunge	
		Outer	Rzeppa-fixed	
	Attach (u-bolt, clamp, etc.)		-	
	Bearing	Type (plain, anti-friction)	-	
		Lubrication (fitting, prepack)	Prepack	
Drive taken through (torque tube, arms or springs)			-	
Torque taken through (torque tube, arms or springs)			-	

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

- (a) GKN-US: 24.2 x 333.2 (0.95 x 13.12) or Citroen: 22.9 x 333.3 (0.90 x 13.12) or SSG: 23.9 x 327.5 (0.94 x 12.89) or GKN-Eur 22.9 x 334.5 (0.90 x 13.17)
- (b) GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.10) or GKN-US: 40.5 x 603.3 x 3.72 (1.59 x 23.75 x 0.146) or Citroen: 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)
- (c) GKN-Eur: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.8 x 327.5 (0.94 x 12.89) or Citroen: 22.9 x 333.2 (0.90 x 13.12)
- (d) GKN-Eur: GI69 or Citroen or GKN-US C-2000 or SSG #19
- (e) GKN-Eur: 92 AC or Citroen or GKN-US C-2000 or SSG #23
- (f) GKN-Eur: 95AC or Citroen or SSG #23

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

2.5L (153.0 in.³)
EFI, EDM

Axle Shafts - Front Wheel Drive

Number used			Two
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Tube
Outer diam. x length* x wall thickness	Manual transmission	Left	(a)
		Right	(b)
	Automatic transmission ^a	Left	(a)
		Right	(b)
	Optional transmission	Left	-
		Right	-
Slip Yoke	Type		-
	Number of teeth		-
	Spline o.d.		-
Universal joints	Make and mfg. no.	Inner	GKN-Eur: GI72 or Citroen or SSG #19
		Outer	GKN-Eur: 95 AC or Citroen or SSG #23
	Number useds		Two
	Type, size, plunge	Inner	Tripod plunge
		Outer	Rzeppa-fixed
	Attach (u-bolt, clamp, etc.)		-
	Bearing	Type (plain, anti-friction)	-
		Lubrication (fitting, prepack)	Prepack
Drive taken through (torque tube, arms or springs)			-
Torque taken through (torque tube, arms or springs)			-

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

(a) Citroen: 22.9 x 333 (0.90 x 13.1) or GKN-Eur: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.9 x 327.5 (0.94 x 12.98)

(b) Citroen 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.106)
 or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)

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

Car Line **DODGE LANCER**

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

Body Type And/Or
 Engine Displacement

44	
Standard (SDA)	Firm Feel (SDC)

Suspension - General

Car leveling	Std./opt./n.a.	N.A.	
	Type (air, hyd., etc.)	-	
	Manual/auto controlled	-	
Provision for brake dip control		Inclined Control Arm and Strut	
Provision for accel. squat control		None	
Provisions for car jacking		Scissors-Type Sill Jack Jack Supports Located at Each End of Body Sills	
Shock absorber (front & rear)	Type	Gas Charged-Hydraulic	
	Make	Front: Sachs	Rear: Maremont
	Piston diameter	Front: 30 (1.18)	Rear: 30.2 (1.19)
	Rod diameter	Front: 20 (0.79)	Rear: 12.7 (0.50)

Suspension - Front

Type and description		Iso-Strut	
Drive and torque taken through		Lower control arm	
Travel	Full jounce	76.5 (3.0)	70.8 (2.8)
	Full rebound	99.0 (3.9)	104.7 (4.12)
Spring	Type (coil, leaf, other) & mat'l.	coil, AISI 5160H Chromium Steel	
	Insulators (type & material)	Compression: Rubber	
	Size (coil design height & i.d. bar length x dia.)	229 x 152 I.D. (9.00 x 6.00 I.D.)	
	Spring rate [N/mm (lb./in.)]	14.9 (85)	21.0 (120)
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)	24.5 (140)
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material & bar diameter	AISI 1090 Spring Steel 27.0 (1.06)	

Suspension - Rear

Type and description		Trailing Flex Arm with Track Bar	
Drive and torque taken through		Arm	
Travel	Full jounce*	124 (4.9)	110 (4.3)
	Full rebound	69 (2.7)	76 (3.0)
Spring	Type (coil, leaf, other) & mat'l.	Coil; AISI 5160H Chromium Alloy Steel	
	Size (length x width, coil design height & i.d., bar length x dia.)	229 x 102 I.D. (9.0 x 4.01 I.D.)	
	Spring rate [N/mm (lb./in.)]	28 (160)	35 (200)
	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	22 (126)
	Insulators (type & material)	Compression: Rubber	
	If leaf	-	
	No. of leaves Shackle (comp. or tens.)	-	
Stabilizer	Type (link, linkless, frameless)	Frameless ERW Tube	
	Material & bar diameter	80KSI HSLA Steel 28.6 (1.13) O.D.	
Track bar (type)		Channel type	

*from curb

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

Car Line **DODGE LANCER**

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

Body Type And/Or
 Engine Displacement

ALL

Brakes - Service

Description			four-wheel hydraulic actuated system	
Brake type (std., opt., n.a.)		Front (disc or drum)	disc	
		Rear (disc or drum)	drum	
Self-adjusting (std., opt., n.a.)			standard	
Special valving	Type (proportion, delay, metering, other)		dual proportioning valve	
Power brake (std., opt., n.a.)			standard	
Booster type (remote, integral, vac., hyd., etc.)			vacuum, single or tandem	
Vacuum source (inline, pump, etc.)			intake manifold	
Vacuum reservoir (volume in. ³)			--	
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			--	
Anti-skid device type (std., opt., n.a.) (F/R)			N. A.	
Effective area [cm ² (in. ²)]* (F/R)			410.64 (63.65)	
Gross lining area [cm ² (in. ²)]** (F/R)			438.98 (68.04)	
Swept area[cm ² (in. ²)]*** (F/R)			1632.57 (253.05)	
Rotor	Outer working diameter	F/R	front: 254.8 (10.03)	
	Inner working diameter	F/R	front: 160.8 (6.33)	
	Thickness	F/R	front: 24.0 (0.945)	
	Material & type (vented/solid)	F/R	front: damped cast iron, vented	
Drum	Diameter & width	F/R	rear: 200 (7.87) × 37.62 (1.48)	
	Type and material	F/R	rear: cast composite	
Wheel cylinder bore			front: 54 (2.13); rear: 15.87 (0.625)	
Master cylinder	Bore/stroke	F/R	21.0 (0.827)/32.79 (1.291)	
Pedal arc ratio			all: 3.28:1	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			power: 9854 (1390)	
Lining clearance		F/R	no major adjustments	
Brake Lining	Front wheel (a)	Bonded or riveted (rivets/seq.)		riveted, 6/shoe
		Rivet size		3.57 (0.14) dia. × 7.57 (0.3)
		Manufacturer		Bendix
		Lining code *****		BX-JD-EE
		Material		molded metallic
		****	Primary or out-board	4764 × 11.34 (7.38 × 0.446)
		Size	Secondary or in-board	4280 × 12.34 (6.36 × 0.486)
		Shoe thickness (no lining)		outer: 4.83 (0.190); inner: 5.68 (0.224)
	Rear wheel	Bonded or riveted (rivets/seq.)		riveted, 10/shoe
		Manufacturer		Bendix
		Lining code *****		--
		Material		rolled asbestos
		****	Primary or out-board	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)
		Size	Secondary or in-board	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)
		Shoe thickness (no lining)		2.17 (0.0854)

* Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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

(a) area x thickness

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued **6-20-86**

Revised (•) _____

Body Type And/Or
 Displacement

Lancer	Lancer ES
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Tires and Wheels (Standard)

Tires	Size (load range)	P185/70 R 14, SL	P195/70 R 14, SL
	Type (bias, radial, etc.)	Steel Radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	220 (32)
		Rear [kPa (psi)]	220 (32)
	Rev./mile - at 70 km/h (45 mph)	862	843
Wheels	Type & material	steel disc	cast aluminum
	Rim (size & flange type)	14 x 5.5 JJ	
	Wheel offset	40 (1.6)	
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 (3.94)
		Number & size	5-M 12 x 1.5mm
Spare	Tire and wheel (same, if other describe)	T115/70 D14 Compact Spare 14 x 4.0 T Steel Disc Wheel	T125/70 D14 Compact Spare 14 x 4.0 T Steel Disc Wheel
	Storage position & location (describe)	Horizontal, On Rear Floor Pan Below Cargo Floor	

Tires and Wheels (Optional)

Size (load range)	P195/70 R 14, SL	P205/60 HR 15, SL
Type (bias, radial, etc.)	Steel Radial	
Wheel (type & material)	Cast Aluminum	Steel Disc or Cast Aluminum
Rim (size, flange type and offset)	14 x 5.5 JJ 40 (1.6)	15 x 6.0 JJ 40 (1.6)
Size (load range)	P205/60 HR 15, SL	
Type (bias, radial, etc.)	Steel Radial	
Wheel (type & material)	Steel Disc or Cast Aluminum	
Rim (size, flange type and offset)	15 x 6.0 JJ 40 (1.6)	
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	--Matching Spare Available with P185/70 R 14 Tires Only --T125/70 D14 Compact Spare on 14 x 4.0 T Steel Disc Wheel used with all optional tires --Location same as standard spare	

Brakes - Parking

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

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued

6-20 - 86

Revised (●)

Body Type And/Or
 Engine Displacement

185 and 195 Width Tires

205 Width Tires

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

Manual (std., opt., n.a.)				not available		
Power (std., opt., n.a.)				standard		
Adjustable steering wheel (tilt, swing, other)		Type and description		tilt		
		(Std., opt., n.a.)		optional		
Wheel diameter (W9) SAE J1100		Manual		--		
		Power		381 (15)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.8 (38.7)	13.7 (44.9)	
		Curb to curb (l. & r.)		11.0 (36.2)	13.1 (42.9)	
	Inside rear	Wall to wall (l. & r.)		6.3 (20.6)	8.6 (28.1)	
		Curb to curb (l. & r.)		6.4 (20.9)	8.7 (28.4)	
Scrub Radius*				-10 (-0.4)		
Manual	Gear	Type				
		Make				
		Ratios	Gear			
			Overall			
	No. wheel turns (stop to stop)					
Power	Type (coaxial, linkage, etc.)		integral power unit			
	Make		TRW			
	Gear	Type		rack and pinion with integral power unit		
		Ratios	Gear	--		
			Overall	14.2:1		
	Pump (drive)		pulley and belt, off crankshaft			
	No. wheel turns (stop to stop)		2.5		2.2	
Linkage	Type		rack and pinion (rod and ball directly attached to gear)			
	Location (front or rear of wheels, other)		rear of wheels			
	Tie rods (one or two)		2 (tie rod inners integral with rack and pinion gear)			
Steering Axis	Inclination at camber (deg.)		13.3			
	Bearings (type)	Upper	ball bearing			
		Lower	ball joint			
		Thrust	ball bearing			
Steering spindle & joint type				Iso-Strut with lower ball joint		
Wheel spindle	Diameter	Inner bearing		76/42 (3.0/1.65) dia.; 37/40 (1.46/1.57) wide		
		Outer bearing		--		
	Thread (size)		M22 x 1.5			
	Bearing (type)		double row Unipack ball or tapered roller bearing			

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

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued **6-20-86**

Revised (●)

Body Type And/Or
 Engine Displacement

All

Wheel Alignment

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

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

Electrical - Instruments and Equipment

Mechanical Cluster

Electronic Cluster

Speedometer	Type	Magnetic torque drive	Vacuum fluorescent display
	Trip odometer (std., opt., n.a.)	Standard	Vacuum fluorescent display
EGR maintenance indicator		-	-
Charge indicator	Type	Voltmeter	Vacuum fluorescent Voltmeter
	Warning device	Light STD	abnormal voltage (a)
Temp. Indicator	Type	Magnetic gage	Vacuum fluorescent gage
	Warning device	Light (check gage)* Std.	High temperature (a)
Oil pressure indicator	Type	Magnetic gage	Vacuum fluorescent gage
	Warning device	Light (check gage)* Std.	Low oil pressure (a)
Fuel indicator	Type	Magnetic gage	Vacuum fluorescent gage
	Warning device	Light (low fuel) Std.	Low fuel (a)-
Wind shield wiper	Type (standard)	Electric 2-speed, Non-depressed park	
	Type (optional)	Electric 2-speed, Intermittent wipe	
	Blade length	457 (18)	
	Swept area [cm ² (in. ²)]	6239 (967.1)	
Windshield washer	Type (standard)	Electric (arm mounted)	
	Type (optional)	-	
	Fluid level indicator	Optional	
Horn	Type mm (in.)	102 mm (4.0 in.) seashell	
	Number used	2	
Other			

*Indicates high coolant temperature or low oil pressure

(a) ISO in VFD flashes to indicate . . .

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

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

Car Line **DODGE LANCER**

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

Engine Description/Carb.
 Engine Code

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

Electrical - Supply System

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

Electrical - Starting System

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

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	n.a.		
	Other (specify)	(b)		
Coil	Make	UTC	Prestolite	Diamond
	Model	5226865	5227372	5227252
	Current	Engine stopped - A		
		3.0A		
Spark plug	Engine idling - A	1.9A		
		Champion		
	Make	Champion		
	Model	RN12YC		
	Thread (mm)	14 mm		
	Tightening torque [N-m (lb-ft)]	28 (20)		
Distributor	Gap	0.9 (0.035)		
	Number per cylinder	one		
	Make	Chrysler		
Model	5226575	5226525	5226575	

Electrical - Suppression

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

(a) Standard with electronic navigator

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

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

Car Line **DODGE LANCER**

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

Body Type

All

Body

Structure

Bumper system
front - rear

Front - Urethane Fascia 4.3 kg. (9.5 lbs.)
High Strength Steel 7.8 kg. (17.25 lbs.)

Rear - Urethane Fascia 4.7 kg. (10.31 lbs.)
High Strength Steel 6.0 kg. (13.25 lbs.)

Anti - corrosion treatment

Extensive use of galvanized steel

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Buffable acrylic enamel
Hinge location (front, rear)		Rear
Type (counterbalance, prop)		Counterbalanced, clockspring
Release control (internal, external)		Internal
Type (counterbalance, other)		--
Internal release control (elec., mech., n.a.)		--
Type (counterbalance, other)		Gas pressurized struts
Internal release control (elec., mech., n.a.)		Remote cable - Opt.
Station		
Wagon		
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Flex-O-Lator Mat
	Rear	Full foam
	3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Flex-O-Lator Mat
	Rear	Full foam
	3rd seat	--

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued

6-20-86

Revised (e)

Body Type

44

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: lap and shoulder belt Rear: Lap belt
	Location	Front: Two Rear: Three
Passive seat belts	Standard/optional	-
	Power/manual	-
	2 or 3 Point	-
	Knee bar/lap belt	-

Frame

Type and description (separate frame, unitized frame, partially unitized frame)		Unitized construction
Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm ² (in ²)]	S1	6763 (1048)
Side glass exposed surface area [cm ² (in ²)]	S2	10670 (1654)
Backlight glass exposed surface area [cm ² (in ²)]	S3	8019 (1243)
Total glass exposed surface area [cm ² (in ²)]	S4	25452 (3945)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Heat treated safety glass
Backlight glass (type)		Heat treated safety glass

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

Car Line **DODGE LANCER**

Model Year **1987**

Issued **6-20-86**

Revised(*)

Body Type

44

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

Air conditioning (manual, auto, temp. control)		Manual - Opt. DP44 - Std.
Clock (digital, analog)		Digital - Std. with radio
Compass/thermometer		Digital - Opt. in Lancer ES (located in overhead)
Console (floor, overhead)		Floor - Std. Armrest - Std. Sport Opt. - highline
Defroster, elec. backlight		EBL - Opt.
Electronic	Diagnostic warning (integrated, individual)	N.A.
	Instrument cluster (list instruments)	Sport - Opt. N.A. - Highline See Page 15
	Keyless entry	N.A.
	Tripminder (avg. spd. fuel)	Std. with Electronic Navigator
	Voice alert (list items)	Sport - Opt. N.A. - Highline
	Other	Navigator - Sport - Opt. N.A. - Highline
Fuel door lock (remote, key, electric)		Graphic Message Center Std. - See Page 19A
Lamps	Remote release - Std.	
	Auto head on/off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map reading)	Sport - Std. Highline - Opt.
	Door lock, ignition	Door lock, Sport-Opt-Ignition - Std-Sport Opt.-High
	Engine compartment	Sport - N.A. Highline - Opt.
	Fog	N.A.
	Glove compartment	Std.
	Trunk	Std.
	Other	Dome - Std.
Mirrors	Shift indicator - Std. N.A. w/ Automatic or Turbo	
	Manual - Std.	
	Day/night (auto. man.)	Remote - Std - Power - Opt.
	L.H. (remote, power, heated)	Remote - Std. Power - Opt.
	R.H. (convex, remote, power, heated)	Remote - Std. Power - Opt.
	Visor vanity (RH/LH, illuminated)	RH - Std. RH Illuminated - Opt.
Parking brake - auto release (warning light)		N.A.
Power equipment	Door locks/ deck lid - specify	Door locks - Opt. Remote Hatch release - Std.
	Seat (2-4-6 way)	
	heated (driver, pass., other)	6 Way track - Opt. (driver only)
	lumbar, hip, thigh support (power, manual)	
	reclining (driver, pass.)	
	memory (1-2 preset, recline)	
	Side windows	Opt.
Radio Systems	Vent windows	N.A.
	Rear windows	N.A.
	Antenna (location, whip, w/shield, power)	Whip - Std. - Right front fender
	AM, FM, stereo, tape, CB	(a) Std. (b)(c) Opt. See Page 19A
Speaker (number, location) Premium sound		Infinity - Opt. (w/ Ultimate sound radio)
Roof open air/ fixed (flip-up, sliding, "T")		Flip up sunroof - Opt.
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		Std.
Telephone system - mobile		N.A.
Theft protection-type		Inside Hood Release-Std. Glove Box Lock-Std. Locking Steering Column-Std. Anti-theft Labels-Std. Cargo security system - Std.

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

Car Line **DODGE LANCER**

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

-
- (a) AM/FM/MX ETR
 - (b) AM/FM/MX Cassette/ETR
 - (c) AM/FM/MX Cassette/ETR Ultimate Sound System (Premium Speakers)

Electronic Voice Alert Includes: Key in ignition, Headlights on, Fasten seatbelts, Door ajar, Low washer fluid, Parking brake on, Low fuel, Low oil pressure, Electrical system malfunction and All monitored systems functioning.

Electronic Navigator Includes: US/MET Conversion, Distance to empty fuel tank, Estimated time of arrival, Distance to destination, Clock/Date, Fuel consumed, Average speed, Miles traveled, Elapsed driving time, Instantaneous and average MPG readings.

Graphic Message Center Includes: Low fuel, Low washer fluid, Door ajar and Hatchback ajar.

MVMA Specifications Form

Passenger car

METRIC (U.S. Customary)

Cae and Body Dimensions

Car Line **DODGE LANCER**Model Year **1987** Issued **6-20-86** Revised(*)

See Key Sheets for Definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line

SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions", unless otherwise specified.

Body Type	SAE Ref. No.	
		44

Width

Tread (front)	W101	1464 (57.6)
Tread (rear)	W102	1453 (57.2)
Vehicle width	W103	1736 (68.3)
Body width at SgRP (front)	W117	1736 (68.3)
Vehicle width (front doors open)	W120	3511 (138.2)
Vehicle width (rear doors open)	W121	3394 (133.6)
Front fender overall width	W106	1707 (67.2)
Rear fender overall width	W107	1729 (68.1)
Tumble-home (deg.)	W122	24°

Length

Wheelbase	L101	2618 (103.1)
Vehicle length	L103	4581 (180.4)
Overhang (front)	L104	1028 (40.5)
Overhang (rear)	L105	935 (36.8)
Upper structure length	L123	2715 (106.9)
Rear wheel C/L "X" coordinate	L127	2706 (106.5)
Cowl point "X" coordinate	L125	472 (18.6)
Front end length at centerline	L126	1412 (55.6)
Rear end length at centerline	L129	454 (17.9)

Height*

Passenger distribution (front/rear)	PD 1,2,3	2 - Front 3 - Rear
Trunk/cargo load		--
Vehicle height	H101	1345 (53.0)
Cowl point to ground	H114	934 (36.8)
Deck point to ground	H138	926 (36.5)
Rocker panel front to ground	H112	
Bottom of door closed front to ground	H133	250 (9.8)
Rocker panel rear to ground	H111	
Bottom of door closed rear to ground	H135	219 (8.6)
Windshield slope angle	H122	58°
Backlight slope angle	H121	62°

Ground Clearance

Front bumper to ground	H102	268 (10.6)
Rear bumper to ground	H104	291 (11.5)
Bumper to ground (front at curb mass (wt.))	H103	287 (11.3)
Bumper to ground (rear at curb mass (wt.))	H105	369 (14.5)
Angle of approach (degrees)	H106	17°
Angle of departure (degrees)	H107	17°
Ramp breakover angle (degrees)	H147	11°
Axle differential to ground (front/rear)	H153	N.A.
Min. running ground clearance	H156	121 (4.8)
Location of min. run. ground clearance		Frnt. Susp. C'mbr. Brkt. (left hand side)

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

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

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

Car Line **DODGE LANCER**

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

See Key Sheets for Definitions

Body Type

SAE Ref. No.	44
	Low-back bucket

Front Compartment

SgRP front, "X" coordinate	L31	1405 (55.3)
Effective head room	H61	972 (38.3)
Max. eff. leg room (accelerator)	L34	1044 (41.1)
SgRP to heel point	H30	264 (10.4)
SgRP to heel point	L53	828 (32.5)
Back angle	L40	24°
Hip angle	L42	94°
Knee angle	L44	119°
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	1418 (55.8)
Hip room	W5	1310 (51.6)
Upper body opening to ground	H50	1081 (42.6) TO "O"
Steering wheel maximum diameter*	W9	381 (15.0)
Steering wheel angle	H18	26°
Accel. heel pt. to steering wheel center	L11	475 (18.7)
Accel. heel pt. to steering wheel center	H17	641 (25.2)
Steering wheel to C/L of thigh	H13	88 (3.5)
Steering wheel torso clearance	L7	336 (13.2)
Headlining to roof panel	H37	17 (0.7)
Undepressed floor covering thickness	H67	23 (0.9)

Rear Compartment

SgRP Point couple distance	L50	816 (32.1)
Effective head room	H63	963 (37.9)
Min. effective leg room	L51	927 (36.5)
SgRP (second to heel)	H31	268 (10.6)
Knee clearance	L48	44 (1.7)
Compartment room	L3	686 (27.0)
Shoulder room	W4	1420 (55.9)
Hip room	W6	1318 (51.9)
Upper body opening to ground	H51	1092 (42.9)
Back angle	L41	25°
Hip angle	L43	85.5°
Knee angle	L45	95°
Foot angle	L47	125°
Headlining to roof panel (second)	H38	22 (0.9)
Depressed floor covering thickness	H73	14 (0.5)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	N.A.
Liftover height	H195	663 (26.1)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Mid - size
Interior volume index (cu. ft.)		113.9
Trunk/cargo index (cu. ft.)		518 (18.3)

* See Page 14

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

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

Car Line **DODGE LANCER**

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

See Key Sheets for Definitions

Body Type

SAE
Ref.
No.

44

Station Wagon - Third Seat

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

Station Wagon - Cargo Space

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	1167 (45.9)
Cargo length at floor (second)	L209	1767 (69.6)
Cargo length at second seatback height	L210	685 (27.0)
Cargo length at floor (second)	L211	967 (38.1)
Front seatback to load floor height	H197	579 (22.8)
Second seatback to load floor height	H198	443 (17.4)
Cargo volume index[m ³ (ft. ³)]	V3	0.935 (42.59)
Hidden cargo volume [m ³ (ft. ³)]	V4	--
Cargo volume index-rear of 2-seat	V10	0.518 (18.32)

Aerodynamics*

Wheel lip to ground, front		654 (25.7)
Wheel lip to ground, rear		650 (25.6)
Frontal area [m ² (ft. ²)] (c)		1.92 (20.65) (a)
Drag coefficient (Cd)		N.A.

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

*EPA Loaded Vehicle Weight, Loading Conditions

(a) All tires, two mirrors and antenna

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

Car Line **DODGE LANCER**

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

Body Type

All

Vehicle Fiducial Marks

Fiducial Mark
Number*

Define Coordinate Location

Front

The center of gauge holes located in front longitudinal approximately 836 mm (32.9 in.) from centerline of front wheels.

Rear

The center of gauge holes located in rear longitudinal approximately 3211 mm (126.4 in) from the centerline of front wheels.

Fiducial
Mark
Number

Front	W21	433.5 (17.1)
	L54	925 (36.4)
	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	H163	
Rear	W22	527.6 (20.8)
	L55	3452.4 (135.9)
	H82	236 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

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

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

Car Line **DODGE LANCER**

Model Year **1987** Issued **6-20-86** Revised(a)

Body Type

All

Lamps and Headlamps Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	657.3 (25.9)
		Lowest	--
	Taillamp (SAE - H128)	Highest**	721.4 (28.4)
		Lowest	--
	Sidemarker	Front	496.0 (19.5)
		Rear	721.4 (28.4)
Distance from centerline of car to center of bulb or marker	Headlamp	Inside	447.5 (17.6)
		Outside**	623.5 (24.5)
	Taillamp	Inside	--
		Outside**	619.1 (24.4)
	Directional	Front	589.5 (23.2)
		Rear	619.1 (24.2)

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

* Measured at curb mass (weight)

** If single lamps are used enter here.

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

Car Line **DODGE LANCER**

Model Year **1987** Issued **6-20-86** Revised(a)

Estimated

	Vehicle Mass (Weight)							
Model	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb.)**
	Front	Rear	Total	Pass. in Front		Pass. in Rear		
				Front	Rear	Front	Rear	
Lancer								
2.2L (135.0 in. ³) EDF engine	718	481	1199	51.6	48.4	19.8	80.2	1169
	(1583)	(1060)	(2643)					(2577)
2.2L (135.0 in. ³) EDG engine	746	475	1221	51.6	48.4	19.8	80.2	1191
	(1645)	(1048)	(2693)					(2627)
2.5L (153.0 in. ³) EDM engine	742	478	1220	51.6	48.4	19.8	80.2	1190
	(1636)	(1053)	(2689)					(2623)
Lancer ES								
2.2L (135.0 in. ³) EDF engine	734	487	1221	51.6	48.4	19.8	80.2	1191
	(1619)	(1073)	(2692)					(2626)
2.2L (135.0 in. ³) EDG engine	758	488	1246	51.6	48.4	19.8	80.2	1216
	(1671)	(1076)	(2747)					(2681)
2.5L (153.0 in. ³) EDM engine	756	483	1239	51.6	48.4	19.8	80.2	1209
	(1667)	(1065)	(2732)					(2666)

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

** Shipping mass (weight) definition-

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

Car Line **DODGE LANCER**

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

Estimated

	Optional Equipment Differential Mass (Weight)*			
Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
500 ampere battery	6 (13)	-1 (-2)	5 (11)	
Front & rear floor mats	2 (4)	1 (3)	3 (7)	
Console - center arm rest	2 (4)	2 (5)	4 (9)	Std. - Lancer ES
Automatic transmission	19 (42)	-2 (-2)	17 (40)	EDF engine
	13 (30)	-1 (-3)	12 (27)	EDG engine
	21 (46)	-2 (-4)	19 (42)	EDM engine Lancer
	24 (52)	-2 (-4)	22 (48)	EDM engine Lancer ES
Air conditioning	27 (60)	-3 (-6)	24 (54)	Std. - premium
Rear wiper washer	-0.5 (-1)	4.5 (9)	4 (8)	premium
	-1 (-2)	6 (13)	5 (11)	highline
Power windows	3.5 (8)	3.5 (8)	7 (16)	
Power seat - left	4 (10)	3 (7)	7 (17)	
AM Stereo/ FM Stereo/ Cassette radio w/ Graphic Equalizer	2 (5)	1 (1)	3 (6)	
Conventional spare tire	-1 (-2)	5 (12)	4 (10)	185 tire only
P195/70 R 14 tires	2 (5)	3 (6)	5 (11)	Std. Lancer ES
Undercoating	1 (2)	1 (3)	2 (5)	
Sunroof	3 (7)	5 (10)	8 (17)	

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