



1976 MVMA Specifications Form

Passenger Car

Manufacturer Chevrolet Motor Division General Motors Corporation	Car Line VEGA	
Mailing Address Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	Model Year 1976	Issued: September, 1975
		Revised (e) January, 1976

• Revised pages - 5, 10, 13, 17, 19, 21, 26

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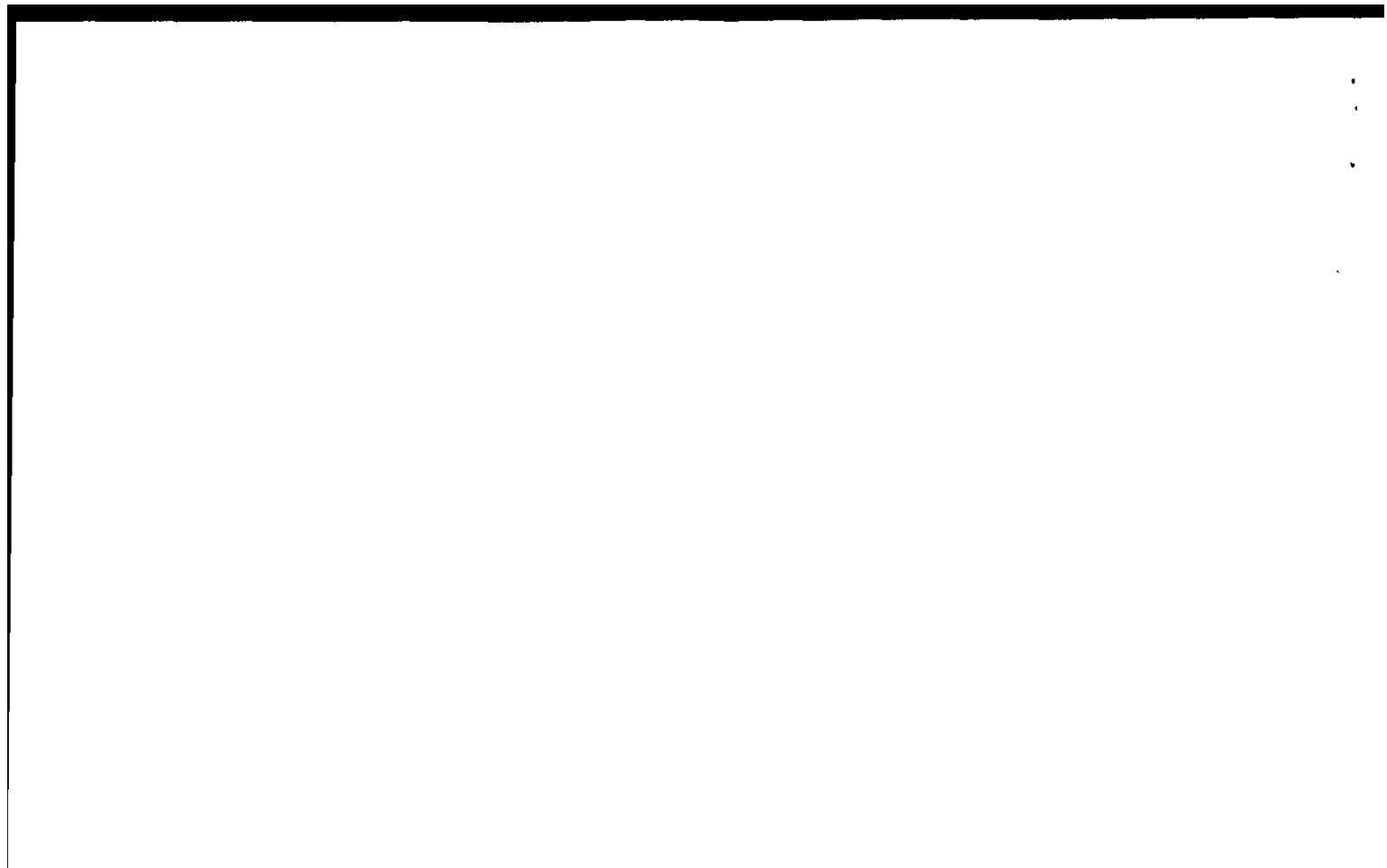
Passenger Car

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NOTES:

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



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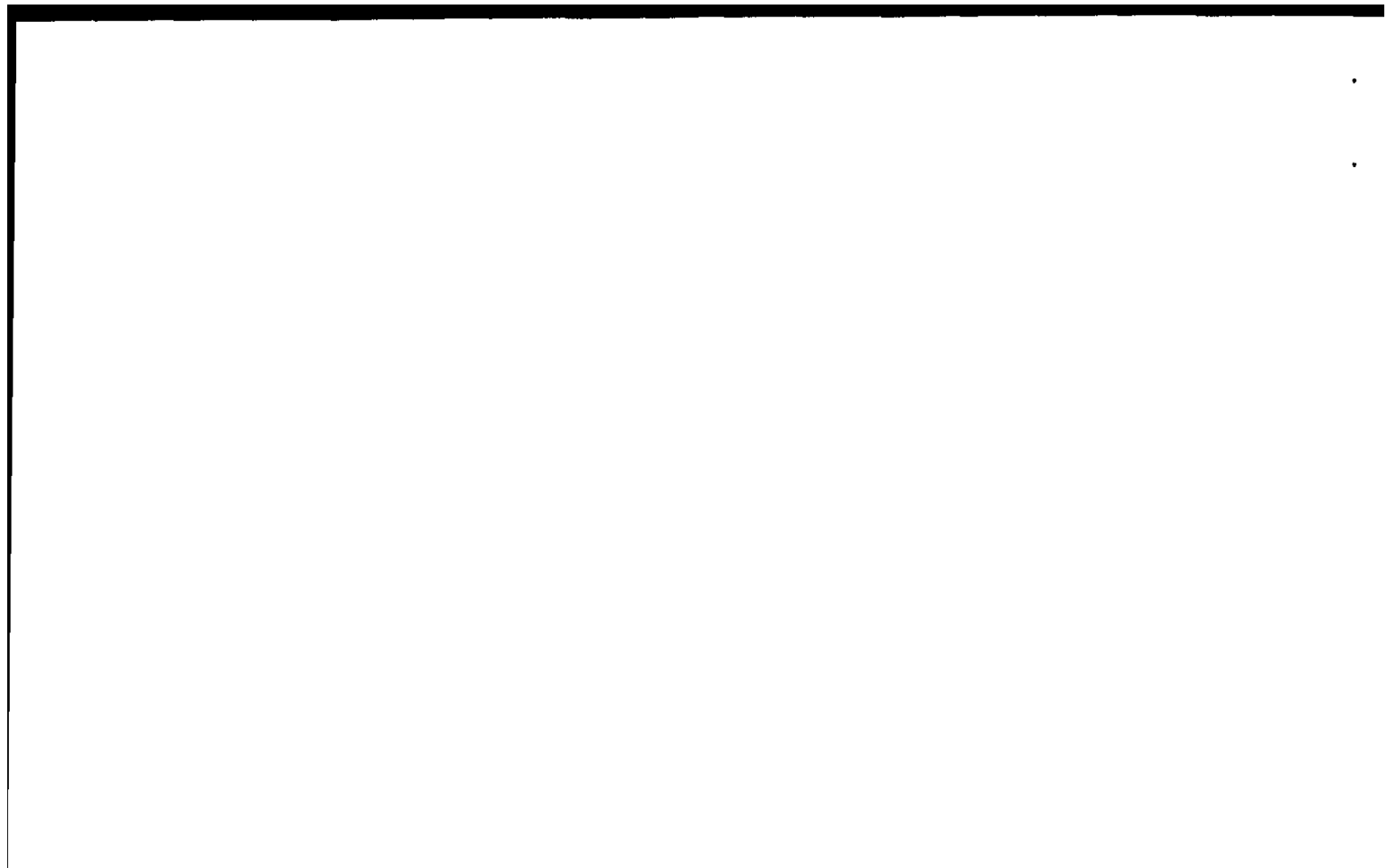
Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (e) _____

Car Models

Model Description	Make, Car line, Series, Body Type (Mfr's Model Code)	Max. Number of Passengers (Front/Rear)	
<u>VEGA</u>	<u>Models</u>	<u>Front</u>	<u>Rear</u>
2-Door Notchback (Coupe)	1HV11	2	2
2-Door Hatchback (Coupe)	1HV77	2	2
2-Door Station Wagon 2-Seat	1HV15	2	2

NOTE:

ANYSPECIFICATIONS ON THE FOLLOWING PAGES THAT ARE SPECIFIC TO CALIFORNIA REQUIREMENTS ARE INDICATED ACCORDINGLY.



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Car and Body Dimensions See Key Sheets, Pgs. 30-33

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for: 4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

SAE Ref. No.	Body Type		
	2-Door Notchback Coupe	2-Door Hatchback	2-Door Station Wagon

Width

Tread - Front	W101	54.8
Tread - Rear	W102	53.6
Maximum overall car width	W103	65.4
Body width at No. 2 pillar	W117	64.4
Max. front doors open	W120	146.8
Max. rear doors open	W121	--

Length

Body "O" to front of dash	L 30	-0.8
Wheelbase	L101	97.0
Overall car length	L103	175.4 (with impact strips 176.4)
Overhang - front	L104	35.2 (with impact strips 35.7)
Overhang - rear	L105	43.2 (with impact strips 43.7)
Body upper structure length	L123	93.2 95.2 108.0
Body "O" line to C/L of rear wheel	L127	86.0
Body "O" line to w/s cowl point	L130	12.0

Height

Passenger Distribution (front & rear)	*	2-2
Trunk/Cargo load (lbs.)	*	0
Overall height	H101	51.8 50.0 51.8
Cowl height	H114	35.2
Deck height	H138	4.3 3.7 4.4
Rocker panel - front	To ground	H112' 6.6
	From front wheel C/L	
Bottom of front door to ground	H133	9.1 9.2
Rocker panel - rear	To ground	H111 6.2
	From rear wheel C/L	
Bottom of rear door to ground	H135	--
Windshield slope angle	H122	55.0° 58.0° 55.0°

Ground Clearance

Bumper to ground - front	H102	14.8
Bumper to ground - rear	H104	13.2
Angle of approach	H106	20.26 20.25 20.23
Angle of departure	H107	21.36 21.37 20.35
Ramp breakover angle	H147	15.21
Rear axle differential to ground	H153	6.1
Min. running clearance (Specify)	H156	4.8 (a)

* All measurements are made at the stated passenger and trunk/cargo loadings

(a) Catalytic Converter.



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Car And Body Dimensions See Key Sheets, Pgs. 30-33

Body Type

SAE Ref. No.	2-Door Notchback Coupe	2-Door Hatchback Coupe	2-Door Station Wagon
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Front Compartment

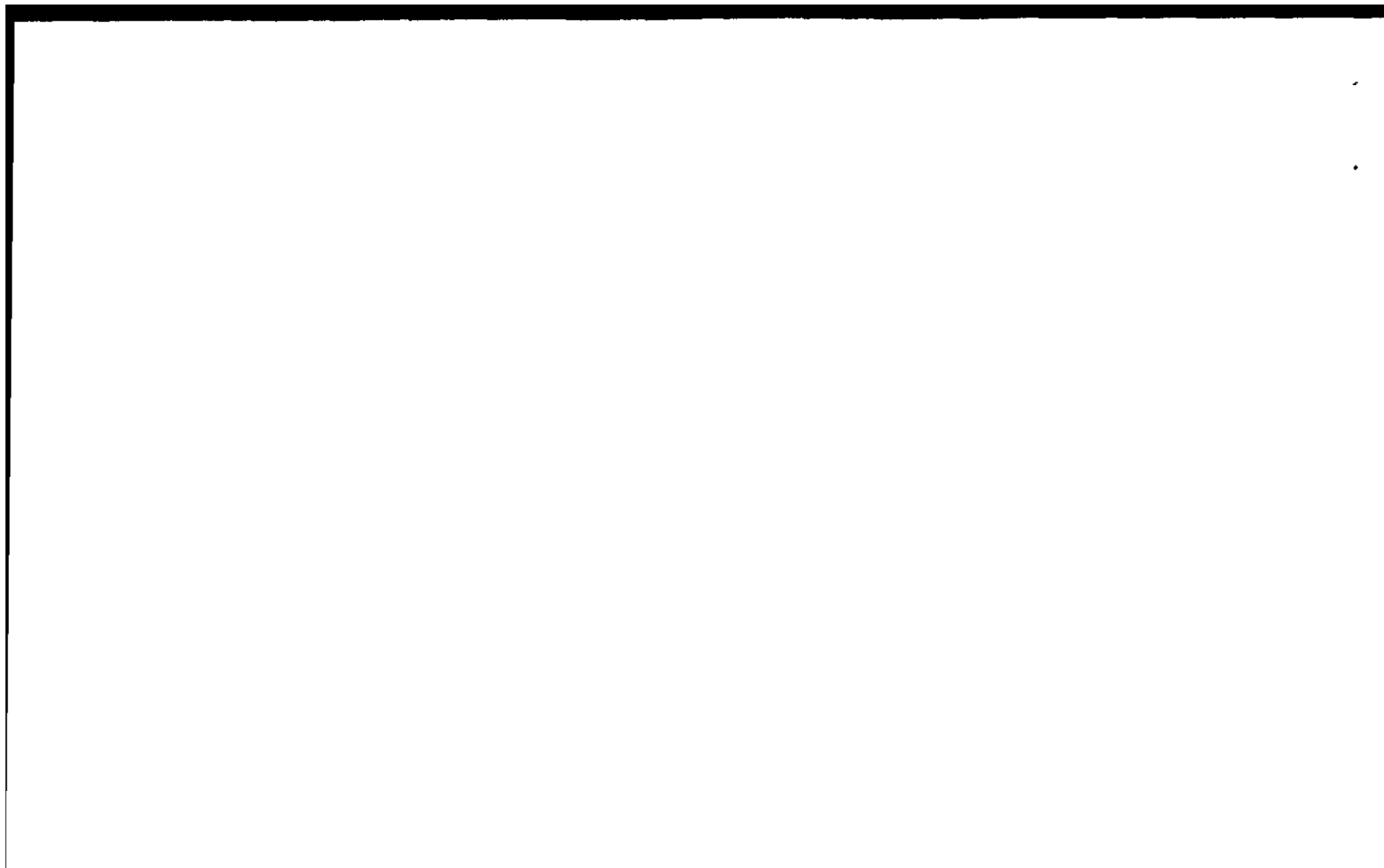
H Point to body "O" line	L31	43.7	43.6	43.7
Effective head room	H61	38.4	37.0	38.5
Effective T Point head room	H75	38.6	37.2	38.6
Max. eff. leg room - accelerator	L34		42.8	
H Point to Heel point	H30	8.1	7.7	8.1
H Point travel	L17		6.5	
Shoulder room	W3		51.3	
Hip room	W5	46.9	47.2	46.9
Upper body opening to ground	H50	47.2	45.9	48.3
Steering Wheel Angle Vertical	H-18		18.0°	
Back Angle Front	L-40		26.0°	

Rear Compartment

H Point couple distance	L50	27.1	27.4	
Effective head room	H63	39.4	37.1	40.1
Effective T Point head room	H76	39.4	36.3	40.3
Min. effective leg room	L51	28.9	29.7	30.1
H Point to Heel point	H31	9.0		8.5
Min. knee room	L48	-2.6	-2.3	-2.2
Rear Compartment room	L3	25.1	24.3	24.5
Shoulder room	W4		49.2	
Hip room	W6		42.5	
Upper body opening to ground	H51		--	

Luggage Compartment

Usable luggage capacity (cu. ft.)	V1	8.7	--	--
Liftover height	H195		29.4	32.7
Position of spare tire storage		Flat in recessed area of compartment floor.		
Method of holding lid open		Torsion Rod	Telescoping gas spring	Torsion Rods



SAE Specifications Form
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Car And Body Dimensions See Key Sheets, Pgs. 30-33

Body Type

SAE Ref. No.	2-Door Hatchback Coupe	2-Door Station Wagon
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Station Wagon — Third Seat

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	Not
Effective head room	H86	Applicable
Effective T Point head room	H89	
Seat facing direction		

Station Wagon — Cargo Space

Cargo length at floor - front seat	L202	65.3
Cargo length at belt - front seat	L204	57.2
Cargo width - Wheelhouse	W201	42.5
Opening width at belt	W204	47.0
Maximum cargo height	H201	28.6
Rear opening height	H202	25.7
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	46.6

Hatchback — Cargo Space

Front Seat Back to Load Floor Height	H197	18.1
Cargo length at Front Seat Back Height	L208	37.6
Cargo length at Floor - Front Seat	L209	65.0
Cargo volume index (cu. ft.) $\frac{2}{1728} \times W4 \times H197$	V3	26.5



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Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

SERIES AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO * (Std. first) ** (Indicate A/C ratio)			
	Displ. cu. in.	Carb.	Compr. Ratio	SAE Net @ RPM			Exhaust System*	'A'	'B'	'C'
				BHP	Torque					
All models Base-all states except Calif.	140L4 (L13)	One 1-bbl	8.0:1	70	107	S	3-Spd. manual (3.11:1 low)	2.92	--	--
				@	@		4-Spd. manual (3.75:1 low)	2.92	--	--
				4400	2400		3-Spd. Automatic	2.92	--	--
All models Optional All states	140L4 (L11)	One; 2-bbl	8.0:1	84	113	S	3-Spd. manual (3.11:1 low)	2.92	--	--
				@	@		4-Spd. manual (3.75:1 low)	2.92	--	--
				(Cal. 79	(Cal. 109		5-Spd. manual (3.41:1 low)	2.93	--	--
				@	@		3-Spd. automatic	2.92	--	3.42
1HV77 Optional - all states	122 L-4	Fuel Injec- tion	8.0:1	110	107	S	4-Spd. manual (3.11:1 low)	3.73	--	--
				@	@		5-Spd. manual (3.41:1 low)	4.10	--	--
<p># - "Base and "Optional" refer to engine availability * - Positraction available optionally for all models **- Same ratios available with Air Conditioning except not available with L4-122</p> <p>A - Base B - Highway option C - High Altitude Option</p>										

*S - Single D - Dual



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Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Engine — General

Type, no. cyls., valve arr.	In-line 4-cyl. overhead camshaft	In-line 4-cyl. twin overhead camshaft
Bore and stroke (nominal)	3.501 x 3.625	3.501 x 3.160
Piston displacement, cu. in.	140	122
Bore spacing (C/L to C/L)	4.00	
No. system	1-2-3-4	
(front to rear)	In-Line	
Firing Order	1-3-4-2	
Cylinder Head Material	High chrome cast alloy iron	Aluminum alloy
Cylinder Block Material	Die cast high - silicon aluminum alloy	
Cyl. Sleeve-Wet, dry, none	None	
Number of mtg. points	Front	Two
	Rear	One
Engine installation angle	3°50'	
Recommended fuel	Unleaded	
regular — premium		
Cylinder Head Volume (cc)	73.50	39.67
Head Gasket Thickness (Compressed)	.049	.044
Head Gasket Volume (cc)	8.08	7.38
Deck Clearance (minimum) (above or below block)	.0025 (below)	.0025 (below)
Minimum Combustion Chamber Volume (cc)	72.0	39.2

Engine — Pistons

Material	Cast aluminum alloy	Forged aluminum alloy	
Description and finish	Flat head, iron plated open skirt	Flat with deep valve pockets, iron plated slipper skirt	
Weight (piston only) oz.	14.08	20.0	
Clearance (limits)	Top land	.0300-.0360	
	Skirt	Top	.0018-.0028 (a)
		Bottom	.0020-.0030 (b)
Ring groove diameter	No. 1 ring	3.130-3.140	
	No. 2 ring	3.130-3.140	
	No. 3 ring	3.080-3.090	

- (a) Measured 1.50 from top of piston
 (b) Measured 1.73 from top of piston



2

1



Signature

Zone:

CHEVROLET

NEVER

PRODUCED

A

PRODUCTION

VEGA

ENGINE

WITH

STEEL

SLEEVES
WALLS.

IN

THE

CYLINDER

FOR

A

REPAIR

ENGINES

WERE

BEING

REMANUFACTURED

(BY

AN OUTSIDE

CO)

WITH

EITHER

.030

Date

Additional Comments

OVERSIZE

PISTONS

OR

SLEEVES,

- PER

RALPH MARKS.

JM 3-21-85

Dealer

Signature

TOTAL

COSWORTH ENGINES

1446 - 76

7 - 74

Date



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Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Engine - Piston Rings

Function (top to bottom)	No. 1. oil or comp.	COMPRESSION
	No. 2. oil or comp.	COMPRESSION
	No. 3. oil or comp.	OIL
Compression	Description - material, coating, etc. UPPER	CAST ALLOY IRON, BARREL FACE; CHROME PLATED
	Description - material, coating, etc. LOWER	CAST ALLOY IRON, BARREL FACE, INSIDE BEVEL; CHROME FLASH
	Width	.0775 - .0780
Oil	Gap	UPPER .015 - .025; LOWER .009 - .019
	Description - material, coating, etc.	MULTI-PIECE (2 RAILS AND 1 SPACER EXPANDER) RAILS-STEEL, CHROME PLATED OD; EXPANDER-STAINLESS STEEL
	Width	.1870 - .1890 (ASSEMBLED)
Expanders	Gap	.010 - .030
		IN OIL RING ASSEMBLY

Engine - Piston Pins

Material	CHROMIUM STEEL	
Length	2.740 - 2.760	2.990 - 3.010
Diameter	.9270 - .9273	
Type	Locked in rod, in piston, floating, etc.	LOCKED IN ROD
	Bushing	NONE
Clearance	In rod or piston	NONE
	In piston	.00030 - .00040
Direction & amount offset in piston	In rod	.00045 - .00055
		MAJOR THRUST SIDE .060

Engine - Connecting Rods

Material	DROP FORGED STEEL	
Weight (oz.)	14.24	19.2
Length (center to center)	5.695 - 5.705	
Bushing	Material & Type	STEEL BACKED WITH ALUMINUM OR COPPER LEAD LINING EQUIVALENT
	Overall length	.807
	Clearance (limits)	.0007 - .0027
	End Play	.0009 - .0013



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4



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Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Engine—Crankshaft

Material	CAST NODULAR IRON	FORGED STEEL (A)	
Vibration damper type	NONE		
End thrust taken by bearing (No.)	4		
Crankshaft end play	.002 - .008		
Main bearing	Material & type	STEEL BACKED INSERT; COPPER LEAD ALLOY LINING, PRECISION REMOVABLE	
	Clearance	.0003 - .0029 (B)	
	Journal dia. and bearing overall length	No. 1	2.3004 X .752 2.3011 X .752
		No. 2	2.3004 X .752 2.3011 X .752
		No. 3	2.3004 X .752 2.3011 X .752
		No. 4	2.3004 X .760 2.3006 X .771
		No. 5	2.3004 X .864 2.3011 X .864
		No. 6	NONE
		No. 7	NONE
	Dir. & amt. cyl. offset	NONE	
No. bolts/main brg. cap	10 BOLTS/5 CAPS		
Crank journal diameter	1.999 - 2.000		

Engine—Camshaft

Location	IN CYLINDER HEAD	IN OVERHEAD CARRIER		
Material	CAST ALLOY IRON			
Bearings	Material	STEEL BACKET BABBIT	NONE - CAMS RUN DIRECTLY ON	
	Number	5	CAM CARRIER INTEGRAL SUPPORTS	
Type of Drive	Gear or chain	FIBERGLASS REINFORCED COG TIMING BELT		
	Crankshaft gear or sprocket material	SINTERED IRON SPROCKET		
	Camshaft gear or sprocket material	SINTERED IRON SPROCKET		
	Timing chain	No. of links	91 TEETH	128
		Width	.954 - 1.031	1.27
Pitch		.500	0.375	

(A) HEAT TREATED AND TUFTRIDED

(B) NO. 1, 2, 3, AND 5 - .0008 - .0034; NO. 4 - .0002 - .0029



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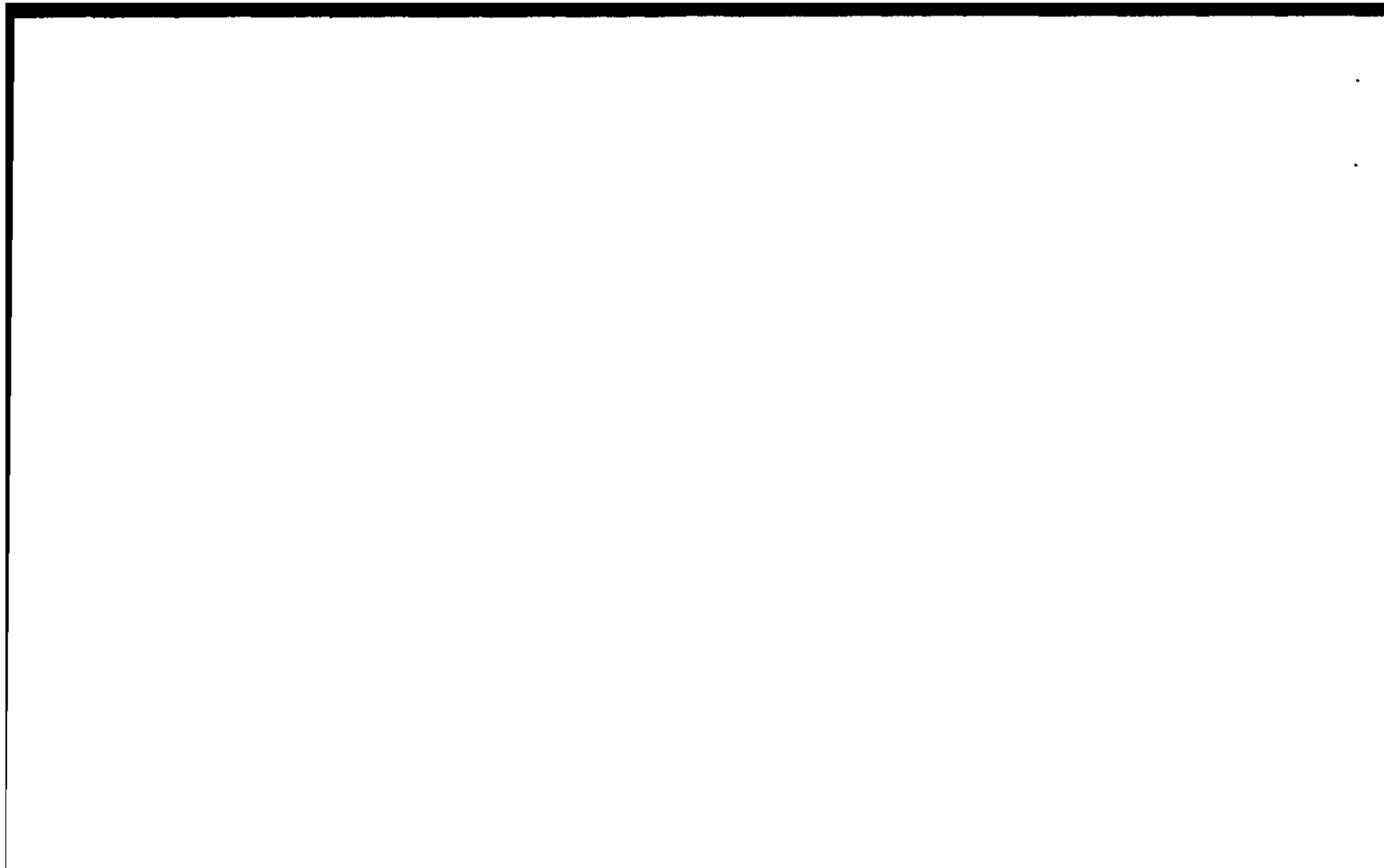
Engine Displacement

L11	L4-140 C.I.	L13	L4-122 C.I.
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Engine—Valve System

Hydraulic lifters (Std. opt. NA)		STANDARD	NA
Valve rotator, type (intake, exhaust)		NONE	
Push rods (dia., length, material)		NONE	
Rocker ratio			
Operating tappet clearance (indicate hot or cold)	Intake	ZERO	.014
	Exhaust	ZERO	.014
Timing (based on top of ramp points)	Intake	Opens (*BTC)	34 ⁰
		Closes (*ABC)	74 ⁰
		Duration (deg.)	288 ⁰
	Exhaust	Opens (*BBC)	76 ⁰
		Closes (*ATC)	36 ⁰
		Duration (deg.)	292 ⁰
Valve open overlap (deg.)		70 ⁰	68 ⁰
Material		ALLOY STEEL WITH COATED FACE	HR STEEL ALLOY (A)
Overall length		4.590 - 4.610	4.938 - 4.958
Actual overall head dia		1.615 - 1.625	1.3975 - 1.4075
Angle of seat & face (deg.)		46 ⁰ SEAT; 45 ⁰ FACE	
Seat insert material		NONE	STELLITE
Stem diameter		.3410 - .3417	.2788 - .2795
Stem to guide clearance		.0010	.0027
Lift (a zero lash)		.4000	.3550
Intake	Outer spring press. & length	Valve closed (lb. @ in.)	71-79@1.746
		Valve open (lb. @ in.)	183-197@ 1.310
	Inner spring press. & length	Valve closed (lb. @ in.)	SPRING DAMPER
		Valve open (lb. @ in.)	SPRING DAMPER
Material		HIGH ALLOY STEEL, CHROME PLATED STEM	ARMCO #21-2N STEEL
Overall length		4.576 - 4.596	4.9375 - 4.9575
Actual overall head dia.		1.370 - 1.380	1.195 - 1.205
Angle of seat & face (deg.)		46 ⁰ SEAT; 45 ⁰ FACE	
Seat insert material		NONE	STELLITE
Stem diameter		.3410 - .3417	.2788 - .2795
Stem to guide clearance		.0010	.0027
Lift (a zero lash)		.4150	.3550
Exhaust	Outer spring press. & length	Valve closed (lb. @ in.)	71-79@ 1.746
		Valve open (lb. @ in.)	183-197@ 1.310
	Inner spring press. & length	Valve closed (lb. @ in.)	SPRING DAMPER
		Valve open (lb. @ in.)	SPRING DAMPER

(A) HEAT TREATED, HIGH NICKEL ALLOY PLATING



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Engine Displacement

L11	L4-140 C.I.	L13	L4-122 C.I.
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Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	PRESSURE
	Connecting rods	PRESSURE
	Piston pins	SPLASH
	Camshaft bearings	PRESSURE
	Tappets	SPLASH
	Timing gear or chain	NONE
	Cylinder walls	SPLASH
Oil pump type	ECCENTRIC INSIDE-OUTSIDE GEAR DRIVEN BY CRANKSHAFT	
Normal oil pressure (lb. @ engine rpm)	27-41 @ 2000	
Oil press. sending unit (elect. or mech.)	ELECTRIC	
Type oil intake (floating, stationary)	STATIONARY	
Oil filter system (full flow, part., other)	FULL FLOW	
Filter replacement (element, complete)	COMPLETE	
Capacity of oil case, less filter-refill (qt.)	3.5	
Oil grade recommended (SAE viscosity and temperature range)	20 ⁰ F AND ABOVE 10W-30, 10W-40, 20W-20, 20W-40, 20W-50 0 ⁰ TO 60 ⁰ F-10W; 5W-30, 10W-30, 10W-40 BELOW 20 ⁰ F-5W-20, 5W-30	
Engine service reqmt. (SD, SE, etc.)	SE	

Engine — Exhaust system

Type (single, single with cross-over, dual, other)	SINGLE WITH CONVERTER	SINGLE	SINGLE WITH SINGLE CONVERTER AND SINGLE TAIL PIPE
Muffler No. & type (reverse flow, straight thru, separate resonator)	ONE REVERSE FLOW		
Resonator No. & type	NONE		
Exhaust Pipe	Branch O. D., wall thickness	2.00X.084(A)	2.25 X.084
	Main O. D., wall thickness	2.00X.072	2.00 X.083
	Material	SEAMLESS STEEL TUBING	
Tail Pipe	O. D. & wall thickness	1.75 X.057	2.00X.057
	Material	ALUMINIZED SEAMLESS STEEL TUBING	

(A) LAMINATED



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Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Engine — Fuel System

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		CARBURETOR	FUEL INJECTION	
Fuel Tank		16 APPROXIMATELY		
Refill capacity (U. S. gals.)				
Filler location		RIGHT REAR QUARTER PANEL		
Fuel Pump	Type (elec. or mech.)	ONE ELECTRIC MOUNTED	TWO ELECTRIC: ONE IN TANK,	
	Locations	IN FUEL TANK	ONE IN FUEL LINE	
	Pressure range	3-4 1/2 PSI @ 12.5 VOLTS (C)		
Vacuum booster (std., optional, none)		NONE		
Fuel Filter	Type	MESH PLASTIC STRAINER (A) (D)		
	Locations	IN FUEL TANK (A) (D)		
Choke type		AUTOMATIC		
Intake manifold heat control (exhaust or water)		WATER		
Carburetor	Air cleaner type	Standard	ONE PIECE WELDED UNIT	
		Optional	REMOTE FROM ENGINE (B)	
	Idle speed (spec. neutral or drive)	Manual	700	600
		Automatic	750	-
Idle A/F mix.		NOT SPECIFIED		

Carburetor Supplementary Information

Model Usage	Piston Displ.	Transmission	Carburetors		No Used and Type	Barrel Size
			Make	Model		
ALL MODELS	140	MANUAL	ROCHESTER	17056023	ONE	1.44
	L13	AUTOMATIC		17056022	1-BBL	
	140	MANUAL	HOLLEY	366829 (366833)	ONE	PRIM. 1.24
	L11	AUTOMATIC		366830 (366834)	2-BBL	SEC. 1.40

NOTE: DATA BRACKETED () PERTAINS TO ENGINE APPLICATION SPECIFIC TO CALIFORNIA

- (A) ADDITIONAL PAPER ELEMENT IN CARBURETOR INLET
- (B) CONTAINS OIL-WETTED PAPER ELEMENT
- (C) ADDITIONAL IN-LINE PUMP WITH L4-122 RATED AT 40 PSI @ 12 VOLTS
- (D) ADDITIONAL IN-LINE FUEL FILTER WITH L4-122



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Engine Displacement		
L4-140 C.I.	L13	L4-122 C.I.
L13 & L11 EXCEPT CAL.	CALIFORNIA ONLY	

Engine — Cooling System

Type system (pressure, pressure vented, atmospheric, other)	ATMOSPHERIC AND PRESSURE VENTED THRU		COOLANT RECOVERY SYS.								
Radiator cap relief valve pressure	15+1PSI										
Circulation thermostat	Type (choke, bypass)	CHOKE									
	Starts to open at (°F)	192 ⁰ - 198 ⁰									
Water pump	Type (centrifugal, other)	CENTRIFUGAL									
	GPM 2000 pump rpm	14.7	12.8								
	Number of pumps	ONE									
	Drive (V-belt, other)	MULTIPLE 'V' DRIVE IN BACKSIDE OF CAMSHAFT TIMING BELT									
	Bearing type	PERMANENTLY LUBRICATED DOUBLE ROW BALL									
By-pass recirculation type (inter., ext.)	INTERNAL										
Radiator core type (cross-flow, vertical, cellular, tube and fin, other)	TUBE AND CENTER; CROSS FLOW										
Cooling system capacity	With heater (qt.)	8.0	6.8								
	Without heater (qt.)										
	Opt. equipment-specify (qt.)	8.0	6.8								
Water jackets full length of cyl. (yes, no)	YES										
Water all around cylinder (yes, no)	NO										
Radiator hose	Lower	Number and type (molded, straight)	ONE, MOLDED								
		Inside diameter	1.75								
	Upper	Number and type (molded, straight)	ONE, MOLDED								
		Inside diameter	1.28	1.25							
	By-pass	Number and type (molded, straight)	NONE								
		Inside diameter	---								
Fan	Number of blades & spacing	5 BLADE, STAGGERED									
	Diameter	14.0									
	Ratio-fan to crankshaft rev.	1:07:1									
	Fan cutout type	NONE									
	Bearing type	NONE									
*Drive belts (indicate belt used by letter)	Fan	A	A	F							
	Generator or alternator	B	E	G							
	Water Pump	A	A	F							
	Power Steering	C	C	C							
	Air Conditioning	D	D	-							
	CRANKSHAFT	AB	E	FG							
	AIR INJECTION	--	E								
Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	52 ⁰ (A)	38 ⁰	38 ⁰	38 ⁰	38 ⁰	52 ⁰ (A)	38 ⁰				
Nominal length (SAE)	45.50	36.00	53.25	36.25	51.50	48.13	9.25				
W.	1.031	.380	.380	.380	.380	1.031	.380				

(A) 6 'V' GROOVE



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**MVMA Specifications Form
Passenger Car**

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) 1/76

Engine Displacement		
L11 ALL STATES EXCEPT. CAL.	L4-140 CU. IN. L13 All States exc. Calif.	L11 California only
		L4-122 C.I. LY3 ALL STATES

Vehicle Emission Control

Type (Air injection, engine modifications, other)		ENGINE MODIFICATIONS	AIR INJECTION	SEE* NOTE BELOW
Air Injection Pump	Type	CONTROLLED COMBUSTION SYSTEM	SEMI-ARTICULATED VANE	PULSE-AIR
	Displacement		19.3 CUBIC INCH	—
	Drive ratio		1.15:1	—
	Drive type		CRANKSHAFT PULLEY	—
	Relief valve (type)		CENTRIFUGAL AIR CLEANER	—
	Filter (describe)		DIVERTER VALVE	—
Air Injection System	Air distribution (head, manifold, etc.)		MANIFOLD	MANIFOLD
	Point of entry		EXHAUST PORTS	EXHAUST PORTS
	Injection tube i.d.		.2200	—
	Check valve type		PRESSURE PLATE	PRESSURE PLATE
	Backfire protection (type)		DIVERTER VALVE	SHUT-OFF VALVE
Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	CONTROLLED FLOW		
	Valve type	VACUUM MODULATED SHUT-OFF VALVE		NONE
	Valve location	LEFT FRONT OF INLET MANIFOLD		—
	Control energy source	CARBURETOR VACUUM		—
	Exhaust source	MANIFOLD		—
	Exhaust cooler type	NONE		—
	Orifice no. and size	ONE .030		—
Catalytic Converter System	Catalyst	Type	PLATINUM-PALLADIUM	
		Volume	160 Cu. In.	NA 260 cu. in. 160 CU. IN.*
	Substrate type	ALUMINUM		
	Container location	BENEATH RIGHT FRONT UNDERBODY		
Other	CARBURETOR	THERMOSTATICALLY CONTROLLED AIR CLEANER		NOT
	HOT AIR	REGULATES AND MIXES HEATED AIR WITH INCOMING AIR TO REDUCE HYDRO CARBON EMISSION		APPLIC- ABLE

NOTE: L4-122 C.I. - ELECTRONIC FUEL INJECTION - SOLENOID OPERATED FUEL INJECTORS ARE ACTUATED AT A SPECIFIC POINT IN THE ENGINE CYCLE TO PRODUCE THE LEAST ENGINE EMISSIONS.

* 260 Cu. In. for California



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**MVMA Specifications Form
Passenger Car**

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) _____

Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Vehicle Emission Control (Continued)

		Type (ventilates to atmos., induction system, other)	Standard Optional	
Crankcase Emission Control	Control Unit	INDUCTION SYSTEM		
		--		
		Make and model	AC SPARK PLUG 6486955	
		Location	FRONT CAMSHAFT COVER MIDDLE OF CAMSHAFT COVER	
	Complete System	Energy source (manifold vacuum, carburetor, other)	MANIFOLD VACUUM	
		Control method (variable orifice, fixed orifice, other)	VARIABLE ORIFICE	
		Discharges (to intake manifold, other)	INTAKE MANIFOLD	
	Fuel Tank	Air inlet (breather cap, other)	CARBURETOR AIR CLEANER	
		Flame arrestor (screen, other)	SCREEN	
		Thermal expansion volume (cu. ft.)	.0410	
Evaporative Emission Control	Fuel Tank	Relief pressure (psi) and location	FILLER CAP 25-35" OF WATER	
		Vacuum relief (psi) and location	FILLER CAP 5-14" OF WATER	
		Vapor-liquid separator type	INTEGRAL CHAMBER WITH FUEL TANK	
		Vapor vented to (crankcase, canister, other)	CANISTER	
		--		
	Carbu- retor F.I.	Vapor vented to (crankcase, canister, other)	CANISTER	
		--		
	Vapor Storage	Storage provision (crankcase, canister, other)	CANISTER	
		--		
		Volume (cu. ft.) or capacity (grams)	50-130 GRAMS	
		Control valve type	VACUUM DIAPHRAGM CONTROLLED - CONSTANT ORIFICE	



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MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (e) _____

Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Electrical — Supply System

Battery	Make and Model	DELCO REMY 1980347	DELCO REMY 1980401	
	Voltage Rtg. & Total Plates	12 VOLTS (2500WATTS) -48	12 VOLTS (3500WATTS) -48	
	SAE Designation No. and/or capacity	0 ⁰ F@175AMPS; -10F@210AMPS 60 MINUTES RESERVE CAPACITY	0 ⁰ F@430AMPS; -10F@230AMPS	
	Location	RIGHT SIDE FRONT OF ENGINE COMPARTMENT		
	Terminal grounded	NEGATIVE		
Generator or Alternator	Make	DELCO REMY		
	Model	1102858	1102850	
	Type and rating	DIODE RECTIFIED - 37 AMPS	DIODE RECTIFIED - 42 AMPS	
	Output at engine idle (neutral)	18-23 AMPS	14-22 AMPS	
	Ratio—Gen. to Cr/s rev.	2.73:1	2.31:1	
Regulator	Make	DELCO REMY		
	Model	--		
	Type	MICRO CIRCUIT UNIT, INTEGRAL WITH GENERATOR		
	Cutout relay	Closing voltage @ generator rpm	NONE	
		Reverse current to open	NONE	
	Regulated	Voltage	13.8-14.8@86 ⁰ F	
		Current	--	
Voltage test conditions	Temperature	OPERATING		
	Load	3-8 AMPERES		
	Other	NONE		

Electrical — Starting System

Starting Motor	Make	DELCO REMY		
	Model	1108771(MAN'L)	1108772(AUTO)	1108773
	Rotation (drive end view)	CLOCKWISE		
Motor Drive	Engagement type	POSITIVE SHIFT SOLENOID		
	Pinion engages from (front, rear)	REAR		
	Number of teeth	Pinion	9	
		Flywheel	Manual	153
			Auto.	153
	Flywheel tooth face width	Manual	.4010	.4130
Auto.		.4010	.4130	



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MVMA Specifications Form

Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (•) _____

Engine Displacement

L4-140 C.I.	L4-122 C.I.
RPO L13	RPO L11

Electrical — Ignition System — Distributor

Breaker gap (in.)		NOT APPLICABLE		
Cam angle (deg.)		NOT APPLICABLE		
Brkr. arm tension (oz.)		NOT APPLICABLE		
Distributor	Manual	1112862		1110649
	Automatic	1112862		1110649
Timing	Manual	8° @ 750	10° @ 700	12° BTC @ 1600
	Automatic	10° @ 750	12° @ 750	---

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
1112862	0° @ 1620	5° @ 2000	22° @ 4800	8° @ 5	24° @ 11
1110649	0° @ 2000	---	17° @ 3600	0° @ 3*	16° @ 8*
* THE DISTRIBUTOR FOR L4-122 C.I. (1110649) FEATURES A VACUUM RETARD AND SHOULD BE READ ON THIS BASIS INSTEAD OF A VACUUM ADVANCE.					



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MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) 1/76

Engine Displacement

L4-140 C.I.	L4-122 C.I.
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Electrical—Ignition System

Type	Conventional - Std., Opt., N.A.	---	---	
	Transistorized - Std., Opt., N.A.	---	---	
	Other (specify)	HIGH ENERGY IGNITION SYSTEM		
Coil	Make	DELCO REMY		
	Model	I115444		
	Current	Engine stopped	4.0	
		Engine idling	1.8	
Spark Plug	Make	AC SPARK PLUG		
	Model	R43TS	R43LTS	
	Thread (mm)	14		
	Tightening torque (lb. ft.)	25 (ORIGINAL) 15 (REPLACEMENT)		
	Gap	.035		
Cable	Conductor type	FIBERGLASS CORE IMPREGNATED WITH ELECTRICAL CONDUCTING MATERIAL.		
	Insulation type	SILICONE RUBBER		
	Spark plug protector	SILICONE RUBBER		

Electrical—Suppression

Locations & type	NON-METALLIC HIGH TENSION IGNITION CABLES
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Electrical—Instruments and Equipment

Speed-ometer	Type	IN-LINE WITH POINTER
	Trip odometer (std. opt. N.A.)	NA
EGR maintenance indicator		NA
Charge Indicator	Type	TELL-TALE
	Warning device	NA
Temperature Indicator	Type	TELL-TALE
	Warning device	NA
Oil pressure Indicator	Type	TELL-TALE
	Warning device	NA
Fuel Indicator	Type	ELECTRIC GAUGE
	Warning device	NA
Wind-shield Wiper	Type - standard	ELECTRIC 2-SPEED
	Type - optional	NONE
	Blade length	15.9"
	Swept area	689.10
Wind-shield Washer	Type - standard	PUSH-BUTTON
	Type - optional	NONE
	Fluid level indicator	NA
Horn	Type	VIBRATOR
	Number used	ONE
	Current draw (A) per horn	4.5-6.0 @ 12.5 VOLTS

Other **PARKING BRAKE WARNING LIGHT AND BRAKE FAILURE WARNING LIGHT.
 RESTRAINT SYSTEM WARNING LIGHT AND BUZZER ON DRIVERS SEAT ONLY.
 COOLANT WARNING LIGHT.**



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MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) _____

Engine Displacement

L13	L4-140 C.I.	L11	L4-122 C.I.
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Drive Units—Clutch (Manual Transmission)

Make & type	CHEVROLET SINGLE DRY DISC			
Type pressure plate springs	DIAPHRAGM			
Total spring load (lb.)	1250-1450			
No. of clutch driven discs	ONE			
Clutch facing	Material	WOVEN TYPE ASBESTOS		
	Manufacturer	CHEVROLET		
	Part Number	6262868		
	Rivets/Plate	36		
	Rivet size	.184 X .208		
	Outside & inside dia	8.00 X 6.00	9.12 X 6.12	9.12 X 6.12
	Total eff. area (sq. in.)	43.98	71.82	71.82
	Thickness	.135		
Engagement cushioning method	FLAT SPRING STEEL BETWEEN FACINGS			
Release bearing	Type & method of lubrication	SINGLE ROW BALL, PACKED AND SEALED		
Torsional damping	Methods, springs, friction material	COIL SPRINGS		

Drive Units—Transmissions

Manual 3-speed (std., opt., N.A.)	STANDARD
Manual 4-speed (std., opt., N.A.)	OPTIONAL
Automatic (std., opt., N.A.)	OPTIONAL

Drive Units — Manual Trans.

Number of forward speeds	3	4	3	4	5*	4	5*	
Transmission ratios	In first	3.11	3.75	3.11	3.75	3.41	3.11	3.41
	In second	1.84	2.16	1.84	2.16	2.08	2.20	2.08
	In third	1.00	1.38	1.00	1.38	1.40	1.47	1.40
	In fourth	----	1.00	----	1.00	1.00	1.00	1.00
	In reverse	3.22	3.82	3.22	3.82	3.36	3.11	3.36
Synchronous meshing specify gears	ALL FORWARD GEARS							
Shift lever location	FLOOR MOUNTED							
Lubricant	Capacity (pt)	3						
	Type recommended	MEETING MILITARY SPECS MIL-L-2105B						
	SAE viscosity number	Summer	SAE 80					
		Winter	SAE 80					
Extreme cold		SAE 80						

* 5TH GEAR = .80



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MVMA Specifications Form Passenger Car

Car Line VEGA
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Engine Displacement

L4-140 C.I.

Drive Units—Automatic Transmission

Trade name		TURBO HYDRA-MATIC
Type (describe)		3-SPEED TORQUE CONVERTER
Selector location		FLOOR MOUNTED
Gear Ratios	P	PARK
	R	1.94
	N	NEUTRAL
	D	2.52-1.52-1.00
	L2	2.52-1.52
	L1	2.52
Max upshift speed - drive range		73
Max kickdown speed - drive range		70
Torque Converter	Number of elements	3
	Max ratio at stall	2.60
	Type of cooling (air, liquid)	AIR
	Nominal diameter	10.00
Lubricant	Capacity - refill (pt.)	8
	Type recommended	Dexron II
Special transmission features		

Drive Units—Axle

Type (front, rear)		REAR	
Description		SEMI-FLOATING WITH HYPOID OVERHUNG PINION GEAR	
Limited Slip differential, type		CONE CLUTCH	
Drive Pinion Offset		6 1/2 ring gear 1.00; 7 1/2 ring gear 1.50	
No. of differential pinions		TWO	
Pinion adjustment (shim, other)		SHIM	
Pinion bearing adj. (shim, other)		COLLAPSIBLE SLEEVE	
Wheel bearing type		SINGLE ROW, CYLINDRICAL ROLLER	
Lubricant	Capacity (pt.)	2.8	
	Type recommended	MEETING MILITARY SPECS MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80 - 90
		Winter	SAE 80 - 90
Extreme cold		SAE 80 - 90	

Axle Ratio Tooth Combinations (See "Power Teams" for axle ratio usage)

Axle ratio		2.92	2.93	3.42	3.73	4.10
No. of teeth:	Pinion	13	14	12	11	10
	Ring gear	38	41	41	41	41
Ring Gear O. D.		6 1/2			7 1/2	



MVMA Specifications Form Passenger Car

Car Line VEGA
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Engine Displacement

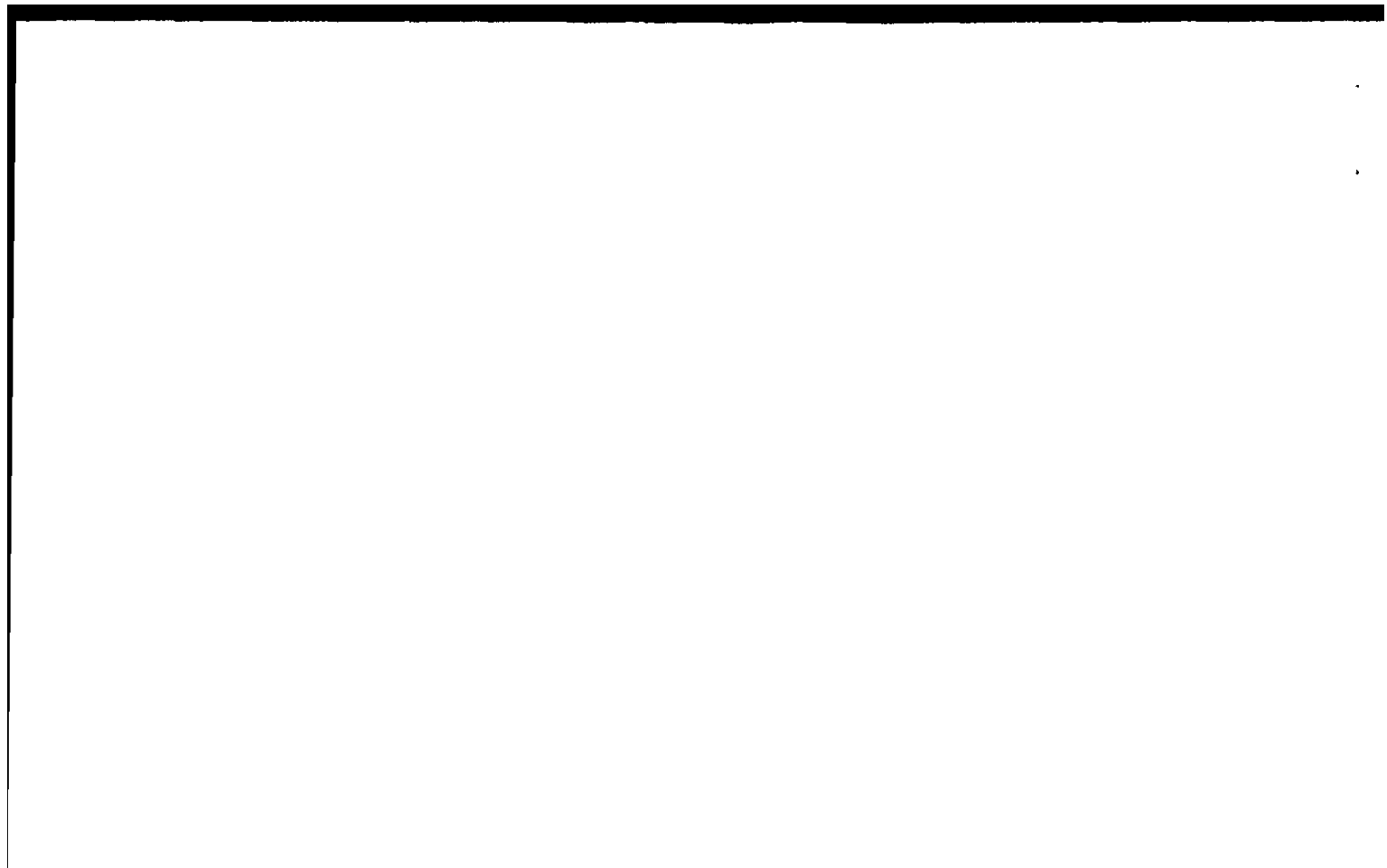
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Drive Units—Propeller Shaft

Number used		ONE	
Type (straight tube, tube-in-tube, internal-external damper, etc.)		STRAIGHT TUBE	
Outer diam. x length* x wall thickness (a)	Manual 3-speed trans.	2.75 X 48.82 X 0.065	
	Manual 4-speed trans.	2.75 X 48.82 x 0.065 (LY3 - 3.00 X 50.11 X 0.065)	
	Automatic transmission	2.75 X 48.82 X 0.065	
Inter-mediate bearing	Type (plain, anti-friction)	NONE	
	Lubrication (fitting, prepack)	----	
Slip Yoke	Type	YOKE	
	Number of teeth	27	
	Spline O. D.	1.1755 - 1.1765	
Universal joints	Make and Mfg. No.	CHEVROLET 1285	
	Number used	TWO	
	Type (ball and trunnion, cross)	CROSS	
	Rear attach. (u-bolt, clamp, etc.)	FLANGE TYPE	
	Bearing	Type (plain, anti-friction)	ANTI-FRICTION
		Lubric. (fitting, prepack)	PRE-PACK
Drive taken through (torque tube or arms, springs)		REAR SUSPENSION CONTROL ARMS & TORQUE ARM	
Torque taken through (torque tube or arms, springs)		REAR SUSPENSION CONTROL ARMS & TORQUE ARM	

*Center to center of universal joints, or to centerline of rear attachment.

(a) MANUAL 5-SPEED TRANS: L11 - 2.75 X 44.78 X .065
 LY3 - 3.00 X 44.78 X .065



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Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) 1/76

Body Type And/Or Engine Displacement, Etc.

L4-140 C.I.	L4-122 C.I.
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Drive Units — Tires And Wheels (Standard)

		A 78-13 B	BR 70-13 B	
TIRES	Size, load range, ply	BIAS PLY	STEEL BELTED RADIAL	
	Type (bias, radial, etc.)			
	Inflation pressure (cold) for recommended max. vehicle load	Front *	24	24
		Rear *	26	26
	Rev. mile @ 45 mph	884	887	
WHEELS	Type & material	SHORT SPOKE SPIDER-STEEL	CAST ALUMINUM	
	Rim (size & flange type)	13X5	13X6	
	Wheel offset ●	0.20	0.45	
	Attachment	Type (bolt or stud)	STUD	
		Circle diameter	4.00	
		Number & size	4 HEX NUTS 7/16-20 UNF-2B	
Spare wheel (same or other)	SAME			

Drive Units — Tires And Wheels (Optional)

Size, load range, ply	BR 78X13B
Type (bias, radial, etc.)	STEEL BELTED RADIAL
Wheel type & material	SHORT SPOKE SPIDER-STEEL
Rim (size, flange type, and offset) ●	13X6 - 0.45
Size, load range, ply	A78X13B
Type (bias, radial, etc.)	Bias Belted
Wheel type & material	Short Spoke Spyder
Rim (size, flange type, and offset) ●	13X5 - 0.20
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	

Brakes — Parking

Type of control	GRIP HANDLE	
Location of control	ON TUNNEL BETWEEN FRONT SEATS	
Operates on	REAR SERVICE BRAKES	
If separate from service brakes	Type (internal or external)	---
	Drum diameter	---
	Lining size (length x width x thickness)	---

*FULL RATED PRESSURES SHOWN, SELECTED TIRE PRESSURES ARE CONTINGENT ON WEIGHT OF VEHICLES.



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MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (e) _____

Body Type And/Or Engine Displacement

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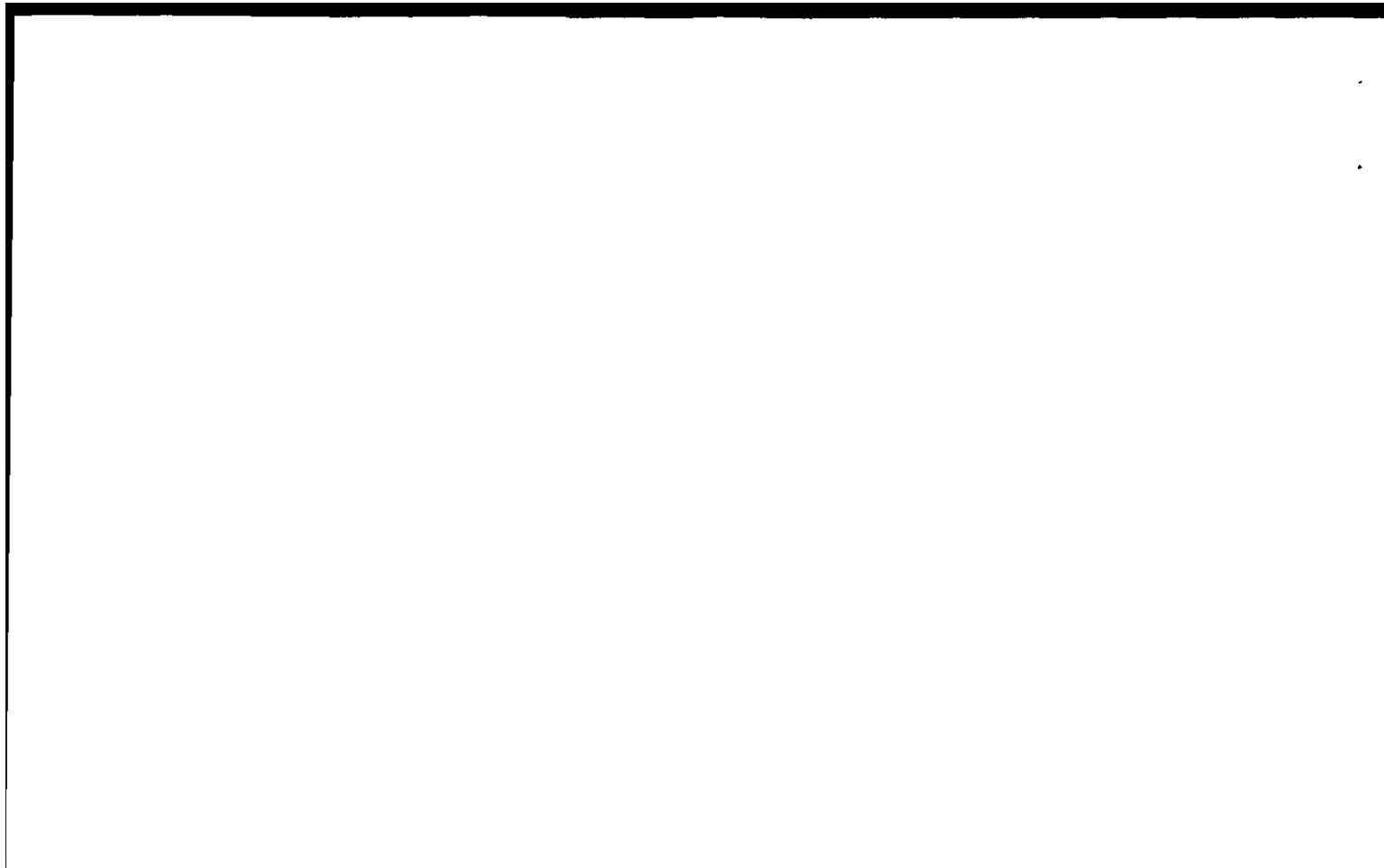
Brakes — Service

Brake Type (std., opt., N.A.)	Drum	Front	---	
		Rear	STANDARD	
	Disc	Front	STANDARD	
		Rear	---	
Self adjusting (std., opt., N.A.)			STANDARD	
Special Valving	Type (proportion, delay, metering, other)		PROPORTIONING & METERING	
Power Brake (std., opt., N.A.)			OPTIONAL	
Booster Type (remote, integral, etc.)			---	
Effective area (sq. in.)*			81.88	
Gross lining area (sq. in.)**			85.26	
Swept area (sq. in.)***			264.71	
Drum	Diameter (nominal)	Front	---	
		Rear	9.5	
Type and material		COMPOSITE, CAST IRON RIM AND STEEL WEB		
Rotor	Outer working diameter		9.88	
	Inner working diameter		6.40	
	Thickness		0.50	
	Material & type (vented/solid)		CAST IRON-SOLID, INTEGRAL WITH HUB	
Wheel cylinder bore	Front		1.875	
	Rear		.6875	
Master Cylinder	Bore		0.75	
	Stroke		1.159	
Pedal arc ratio			MANUAL 6.47 POWER 4.00	
Line pressure at 100 lb. pedal load				
Shoe Clearance	Front		SELF-ADJUSTING	
	Rear		SELF-ADJUSTING	
Anti-skid device type (std., opt., N.A.)			NOT AVAILABLE	
Brake Lining	Bonded or riveted, rivets/seg.		FRONT - BONDED, REAR - RIVETED	
	Rivet size		.144 X .250	
	Manufacturer		DELCO MORaine	
	Part number		---	
	Front Wheel	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Prim. or out-board	4.00X 1.54 X 0.370
			Second. or in-board	4.00X 1.54 X 0.370
		Segments per shoe		ONE
		Shoe thickness		.570
		Rear Wheel	Material	
	Size (length x width x thickness)		Prim. or out-board	7.30X1.08X.23
			Second. or in-board	9.46X1.99X.30
	Segments per shoe		ONE	
	Shoe thickness		PRIMARY .275; SECONDARY .305	

* Excludes rivet holes, grooves, chamfers, etc.

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

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



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Steering

Manual (std., opt., NA)		STANDARD	
Power (std., opt., NA)		OPTIONAL	
Adjustable steering wheel (tilt, swing, other)	Type and description	NOT AVAILABLE	
	(std., opt., NA)	---	
Wheel diameter	Manual	14.75X14.25	
	Power	14.75X14.25	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	38.4
		Curb to curb (l. & r.)	35.8
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Manual	Gear	Type	SEMI-REVERSIBLE, RECIRCULATING ANTI-FRICTION BEARINGS
		Make	SAGINAW STEERING
	Ratios	Gear	20.9:1
		Overall	22.5:1
	No. wheel turns (stop to stop)		4.4
Power	Type (coaxial, linkage, etc.)		INTEGRAL GEAR AND POWER PISTON WITH VANE TYPE PUMP
	Make		SAGINAW STEERING
	Gear	Type	SAME AS MANUAL
		Ratios	Gear
	Overall		16.5:1-13.5:1
	Pump driven by		BELT FROM CRANKSHAFT PULLEY
No. wheel turns (stop to stop)		2.82	
Linkage	Type		PARALLELOGRAM
	Location (front or rear of wheels, other)		FRONT
	Drag link (trans. or longit.)		TRANSVERSE
	Tie rods (one or two)		TWO
Steering Axis	Inclination at camber (deg.)		8.55 @ 25°
	Bearings (type)	Upper	SINTERED STEEL SPHERICAL
		Lower	SINTERED STEEL SPHERICAL
		Thrust	NONE
Whl Align. (range at curb wt. & preferred)	Caster (deg.)		N 3/4 + 1
	Camber (deg.)		P 1/2 ± 3/4
	Toe-in (outside track inches)		1/4 ± 1/16
Steering spindle & joint type		SPHERICAL JOINT STEERING KNUCKLE PIVOTS	
Wheel Spindle	Diameter	Inner bearing	1.25
		Outer bearing	0.687
	Thread size		11/16 - 20 NEF - 3 (MODIFIED)
	Bearing type		TAPER ROLLER



MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (e)

Body Type And/Or Engine Displacement

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Suspension — General

(See Supplement page for details on Air Suspension)

Provision for car leveling	NONE	
Provision for brake dip control	FRONT SUSPENSION GEOMETRY	
Provision for acc. squat control	REAR SUSPENSION GEOMETRY	
Special provisions for car jacking	POSITION JACK IN BUMPER SLOT IN LOWER FACE OF FRONT AND REAR BUMPERS	
Shock absorber front & rear	Type	DIRECT DOUBLE ACTING HYDRAULIC
	Make	DELCO PRODUCTS
	Piston dia.	1.00
Other special features	---	

Suspension — Front

Type and description	INDEPENDENT SLA TYPE, COIL SPRINGS	
Travel	Full Jounce	1.94
	Full Rebound	3.50
Spring	Type (coil, leaf, other)	COIL
	Material	STEEL ALLOY
	Size (coil design height & I.D., bar length x dia.)	8.70 X 3.50; 98.61 X .562 (A)
	Spring rate (lb. per in.)	325 (A)
	Rate at wheel (lb. per in.)	105.8
Optional Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	HR STEEL 0.875

Suspension — Rear

Type and description	SALISBURY REAR AXLE, COIL SPRINGS, TORQUE ARM SUSP.	
Drive and torque taken through	TORQUE ARM SYSTEM.	
Travel	Full Jounce	2.75
	Full Rebound	4.64
Spring	Type (coil, leaf, other)	COIL
	Material	CHROME CARBON STEEL HEAT TREATED
	Size (length x width, coil design height & I.D., bar length & dia.)	10.24 X 4.24; 107.06 X .499 (A)
	Spring rate (lb. per in.)	130 (A)
	Rate at wheel (lb. per in.)	133.8
	Mounting insulation type	RUBBER PAD - TOP AND BOTTOM
	If leaf	No. of leaves
	Shackle (comp. or tens.)	---
Stabilizer	Type (link, linkless, frameless)	LINKLESS (B)
	Material & bar diameter	0.75
Track bar type	HAS LATERAL TRACK BAR-BODY TO AXLE.	

(A) FOR BASE EQUIPPED MODEL. SPRINGS FOR ALL MODELS ARE COMPUTER SELECTED BY SIZE AND RATE ACCORDING TO VEHICLE WEIGHT INCLUDING OPTIONAL EQUIPMENT.

(B) USED WITH SPECIAL PERFORMANCE OPTION RPO F41.



MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (e) _____

Body Type		
2-DOOR NOTCHBACK COUPE	2-DOOR HATCHBACK COUPE	2-DOOR STATION WAGON

Frame

Type and description (Separate frame, unitized frame, partially - unitized frame)

INTEGRAL BODY - FRAME

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)	ACRYLIC LACQUER		
Hood counterbalanced (yes, no)	NO		
Hood release control (internal, external)	INTERNAL		
Vehicle indent No. location	TOP LEFT HAND OF INSTRUMENT PANEL PAD.		
Theft protection - type	LOCK: MOUNTED ON STEERING COLUMN; LOCKS STEERING WHEEL, AND IGNITION.		
Vent window control method (crank, friction pivot, power)	Front	---	
	Rear	---	
Seat cushion type	Front	FORMED FULL FOAM PAD	
	Rear	FORMED WIRE AND FULL FOAM CONSTRUCTION	
	3rd seat	---	
Seat back type	Front	FORMED FULL FOAM PAD	
	Rear	FORMED WIRE AND FULL FOAM CONSTRUCTION	
	3rd seat	---	
Windshield glass type	CURVED LAMINATED PLATE		
Side glass type	CURVED - TEMPERED PLATE		
Backlight glass type	CURVED - TEMPERED PLATE		
Windshield glass exposed surface area	1116.2	1143.9	1116.2
Side glass exposed surface area	1545.4	1334.4	2062.0
Backlight glass exposed surface area	973.8	1071.3	662.5
Total glass exposed surface area	3635.4	3549.6	3840.7



MVMA Specifications Form

Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) 1/76

Body Type		
2-DOOR NOTCHBACK COUPE	2-DOOR HATCHBACK COUPE	2-DOOR STATION WAGON

Convenience Equipment

Power windows	Side windows	NA
	Vent windows	NA
	Backlight or tailgate	NA
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		2-POSITION INCLUDED IN PACKAGE OPTION
Radios (specify type as well as availability)		OPTIONAL-AM-PUSH-BUTTON, AM-FM-PUSH-BUTTON, AM-FM STEREO, 2-SPKRS. - ALSO TAPE PLAYERS UM1 and UM2.
Rear seat speaker		OPTIONAL
Power antenna		NA
Clock		NA
Air conditioner (specify type and availability)		OPTIONAL-FOUR SEASON, WITH MANUAL CONTROL.
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		STANDARD
Glove compartment lamp		OPTIONAL
Luggage compartment lamp		OPTIONAL, STATION WAGON
Underhood lamp		OPTIONAL
Courtesy lamp		NA
Map lamp		NA
Cornering light lamp		NA
Rear window WIND FOGGER electrically heated		OPTIONAL
Rear window defogger		NA
Windshield Antenna		AVAILABLE AND INCLUDED WITH FACTORY INSTALLED RADIO.
Tinted body glass		OPTIONAL
Swing-out rr.qtr.windows		OPTIONAL WITH NOTCHBACK & HATCHBACK COUPES ONLY

● Lamp Height And Spacing*

Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	26.3	
		Lowest	--	
	Tail (H126)	Highest	26.5	26.0
		Lowest	--	
Sidemarker	Front	22.7		
	Rear	23.1		
Distance from C.L. of car to center of bulb	Headlamp	Inside	--	
		Outside**	25.48	
	Tail	Inside	--	
		Outside	23.32	
	Directional	Front	17.92	
		Rear	23.32	

*Measured with passenger load and trunk/cargo load specified in Car and Body Dimension section.

**If single headlamps are used enter here.





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3



MVMA Specifications Form Passenger Car

Car Line VEGA
 Model Year 1976 Issued 9/75 Revised (●) _____

Body Type

Vehicle Fiducial Marks

Fiducial Mark
Number *

Define Coordinate Location

Front

X - FIDUCIAL MARK TO CENTERLINE OF CAR - FRONT,
 WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO FIDUCIAL MARK
 LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.

Y - FIDUCIAL MARK TO VERTICAL BODY ZERO LINE - FRONT,
 MEASURED HORIZONTALLY FROM THE BODY ZERO LINE TO THE FRONT
 FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING
 BOLT.

Z - FIDUCIAL MARK TO HORIZONTAL BODY ZERO LINE - FRONT,
 MEASURED VERTICALLY FROM BODY ZERO LINE TO THE FRONT FIDUCIAL MARK
 LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.

Rear

X - FIDUCIAL MARK TO CENTERLINE OF CAR - REAR,
 WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO FIDUCIAL MARK
 LOCATED ON THE REAR UNDERBODY CROSSBAR.

Y - FIDUCIAL MARK TO VERTICAL BODY ZERO LINE - REAR,
 MEASURED HORIZONTALLY FROM BODY ZERO LINE TO THE REAR FIDUCIAL
 MARK LOCATED ON REAR UNDERBODY CROSSBAR.

Z - FIDUCIAL MARK TO HORIZONTAL BODY ZERO LINE - REAR,
 MEASURED VERTICALLY FROM BODY ZERO LINE TO THE REAR FIDUCIAL
 MARK LOCATED ON THE REAR UNDERBODY CROSSBAR.

Fiducial
Mark
Number

Coordinate Location of
Fiducial Mark

Fiducial Mark
to Ground
at Curb

COUPES 9.08
 STATION WAGONS 9.04

Front

X	Y	Z
19.86	29.40	4.12

COUPES 15.10
 STATION WAGONS 15.05

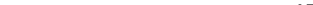
Rear

X	Y	Z
8.25	122.00	10.32



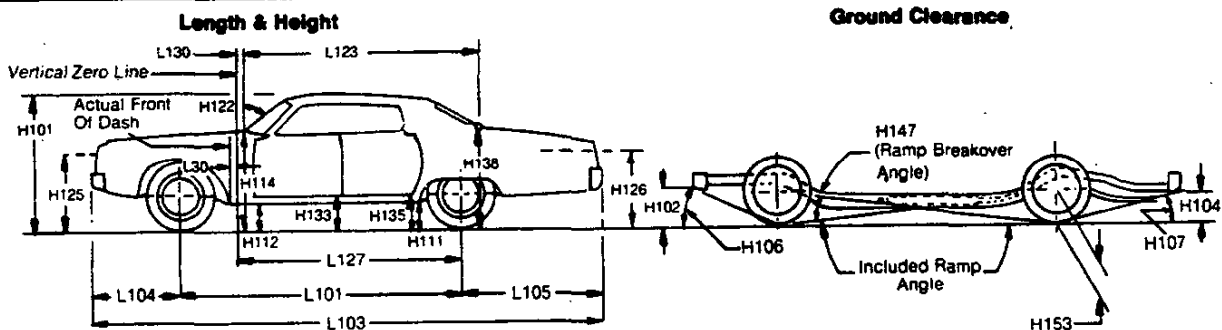
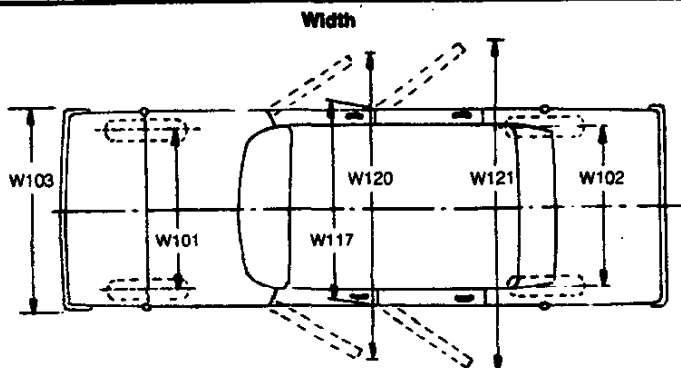
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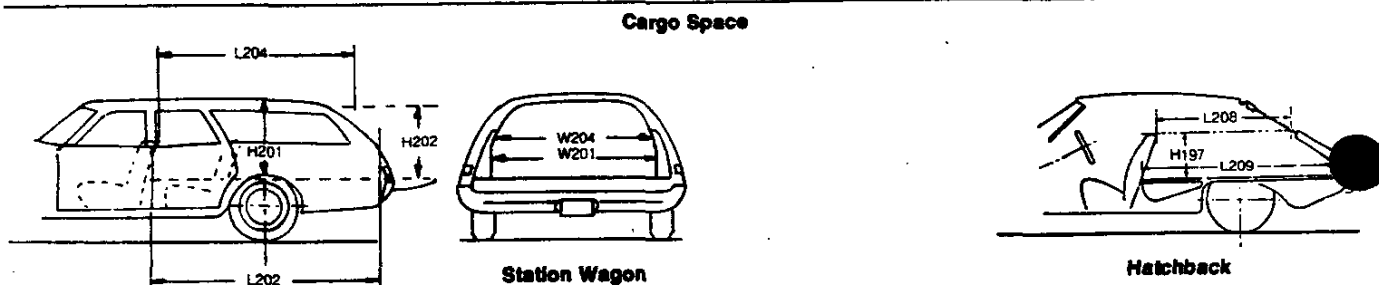
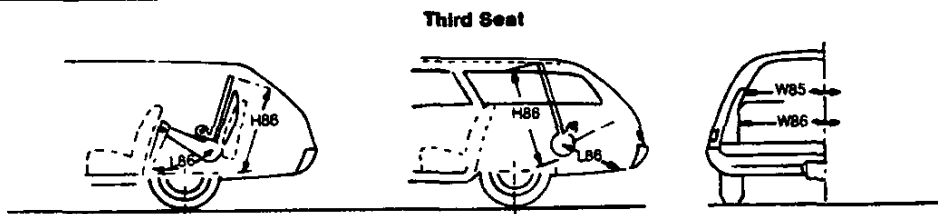
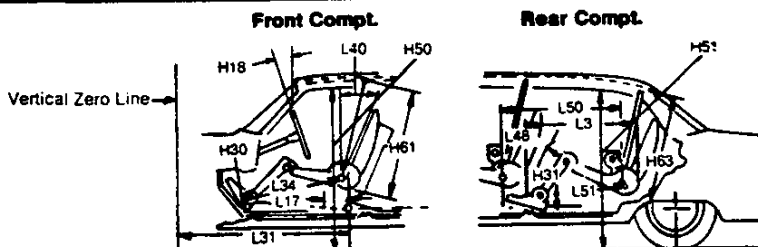
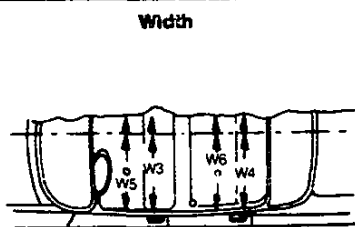


MVMA Specifications Form Passenger Car

Exterior Car And Body Dimensions — Key Sheet



Interior Car And Body Dimensions — Key Sheet





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MVMA Specifications Form

Passenger Car

Exterior Car And Body Dimensions — Key Sheet

Dimension Definitions

Width Dimensions

- W101 WHEEL TREAD — FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD — REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT NO. 2 PILLAR. Measured across body at No. 2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

Length Dimensions

- L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (—) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG — FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG — REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

Height Dimensions

- H101 OVERALL HEIGHT — DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.

- H112 ROCKER PANEL TO GROUND — FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H133 BOTTOM OF DOOR TO GROUND, CLOSED — FRONT is the same point on the door as H132 dimension, with door closed.
- H111 ROCKER PANEL TO GROUND — REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED — REAR is measured in same manner as H133.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.
- H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.
- H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

Ground Clearance Dimensions

- H102 BUMPER TO GROUND — FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND — REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.



MVMA Specifications Form Passenger Car

Interior Car And Body Dimensions — Key Sheet Dimension Definitions

Front Compartment Dimensions

- L31 H POINT TO VERTICAL ZERO LINE — FRONT is a horizontal dimension.
- H61 EFFECTIVE HEAD ROOM — FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- H75 EFFECTIVE T POINT HEADROOM — FRONT. The arc dimension from the T Point to the headlining plus 30 inches.
- L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H30 H POINT TO HEEL POINT — FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within the belt line to 10 inches above the H-point—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within 1.0 inches below and 3.0 inches above the H-point height and 3.0 inches fore and aft of the H-point.
- H50 UPPER BODY OPENING TO GROUND — FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.
- H18 STEERING WHEEL ANGLE — VERTICAL. The angle measured from a vertical to the surface plane of the steering wheel.
- L40 BACK ANGLE — FRONT. The angle measured between a vertical line through the H-Point-Front and the torso line.

Rear Compartment Dimensions

- L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H63 EFFECTIVE HEAD ROOM — REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- H76 EFFECTIVE T POINT HEADROOM — REAR. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM — REAR. Measured along a diagonal line from the ankle pivot center to the H

Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

- H31 H POINT TO HEEL POINT — REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L48 KNEE CLEARANCE. The minimum dimension measured from the knee pivot center to the back of front seatback minus 2.0 inches.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the H-point—second within 10.0-16.0 inches above the H-point—second.
- W6 HIP ROOM—SECOND. Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND — REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

Luggage Compartment Dimensions

- V1 LUGGAGE CAPACITY — USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

Station Wagon — Third Seat Dimensions

- W85 SHOULDER ROOM—THIRD. Measured in the same manner as W4.
- W86 HIP ROOM—THIRD. Measured in the same manner as W5.
- L86 EFFECTIVE LEG ROOM — THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H86 EFFECTIVE HEAD ROOM — THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.
- H89 EFFECTIVE T POINT HEADROOM — THIRD SEAT. Measured in the same manner as H75.



MVMA Specifications Form Passenger Car

Interior Car And Body Dimensions — Key Sheet Dimension Definitions

Station Wagon — Cargo Space Dimensions

- L202 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT — FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH — WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail and liftgates fully open.
- V2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

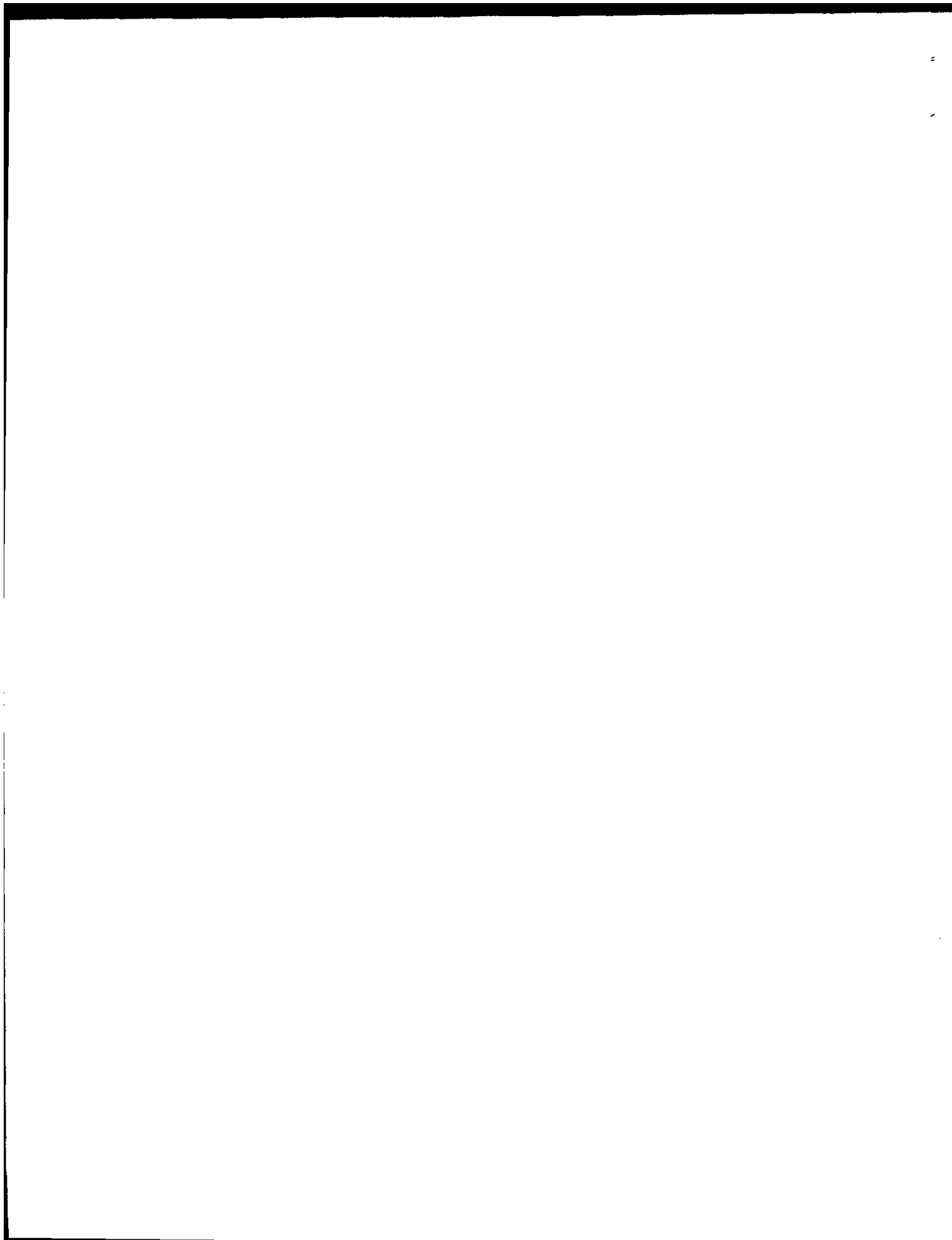
$$\frac{W4 \times L204 \times H201}{1728}$$

Hatch Back — Cargo Space Dimensions

All hatch back cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatch back door is in the closed position (For electrically adjusted seats, see manufacturer's specifications for Design 'H' Point).

- H197 FRONT SEAT BACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seat back to the undepressed floor covering.
- L208 CARGO LENGTH AT FRONT SEAT BACK HEIGHT. The horizontal dimension measured from the top rear of front seat back to the inside limiting interference of the hatch back door on the car centerline.
- L209 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension measured at floor level from the rear of the front seat back to the normal limiting interference of the hatch back door on the car centerline.
- V3 HATCH BACK — CARGO INDEX VOLUME. Hatch back cargo index volume is to be determined by the following formula, and expressed in terms of cubic feet.

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728}$$



MVMA Specifications Form Passenger Car

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