Specifications Form Passenger Car

1981

METRIC (U.S. Customary)

Manufacturer	Car Line	
FORD MOTOR COMPANY	MUSTANG	
Mailing Address P.O. BOX 2053 DEARBORN, MICHIGAN 48121	Model Year 1981	Issued: Sept. 1980 Revised (•) JULY, 1981

MVMA Specifications Form
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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The Metric unit of measurement 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. A printed or computer tape supplement containing additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (•)

Car Models

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load -- Kilograms (Pounds)
2-Door	66B	2-2	45.4 (100)
2-Door Ghia	66H	2-2	45.4 (100)
3-Door	61R	2-2	45.4 (100)
3-Door Ghia	61H	2-2	45.4 (100)

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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. liters (in^3)	Carb. (Barrels)	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N·m (lb. ft.)	Exhaust System*		
				50 STATES				
All	2.3L (140)	2V	9.0	66 (88) @ 4600	160 (119) @ 2600	S	Manual 4-Speed Manual 5-Speed Automatic (b)	3.08 (a) 3.45 (a) 3.08 3.45 (a)
All	2.3L (140) Turbo	2V (Canada Only)	9.0			S	Manual 4-Speed Manual 5-Speed	3.08 (a) 3.45 (a)
All	3.3L (200)	1V	8.6	70 (94) @ 4000	214 (158) @ 1400	S	Manual 4-Speed Automatic	3.08 (a) 2.73 (a) 2.47 (c)
All	4.2L (255)	2V (d)	8.2	86 (115) @ 3400	264 (195) @ 2200	S	Automatic	2.26 3.08 (a)
All	4.2L (255)	VV (e)	8.2	90 (120) @ 3400	278 (205) @ 2600	S	Automatic	2.26 3.08 (a)

* A/C uses standard ratio
(a) Available with locking axle
(b) Standard with altitude package, N.A. California
(c) Post Job #1
(d) 49 States
(e) California

*S — Single D — Dual

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Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code			
		2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — General

Type (Inline, V and Angle, Flat)			Inline, OHC	
Location (Front, Mid, Rear)			Front	
Engine installation position (transverse, longitudinal)			Longitudinal	
Number of mtg. points	Front		Two	
	Rear		One	
No. of cylinders			Four	
Bore			96.04 (3.781)	
Stroke			79.40 (3.126)	
Piston Displacement cm^3 (in^3)			2301 (140)	
Bore Spacing (C/L to C/L)			105.99 (4.173)	
Cylinder Block Material			Cast Iron	
Cylinder block deck height			212.55 (8.368)	
Deck clearance (minimum) (above or below block)			0.178 (0.007) (Above)	
Cylinder Head Material			Cast Iron	
Cylinder Head Volume — cm^3			61.3	
Head Gasket Thickness (Compressed)			1.09 (0.043)	
Head Gasket Volume — cm^3			8.9	
Minimum Combustion Chamber Volume — cm^3 (a)			76.9	
Cyl. No. system (front to rear)**	L Bank		--	
	R. Bank		--	
Firing Order			1-3-4-2	
Recommended fuel (Leaded, unleaded)			Unleaded	
Fuel antiknock index $\frac{(R + M)}{2}$			N.A.	
Total dressed engine mass (wt) dry *			155(341)Man. (b);140(308)Auto.	168(370)Man, 153(337)Auto.

Engine — Pistons

Material			Aluminum Alloy (with or without steel struts)	
Description and finish (Flat, dished, dome, etc.)			Full Skirt Cam Ground	Forged, Full Skirt Cam Machined
Mass, g (weight, oz.) — Piston Only			497-503 (17.5-17.7)	499-509 (17.60-17.95)
Clearance (limits)	Top land		.749-1.044 (.0295-.0411)	0.953-1.247 (0.038-0.049)
	Skirt	Top	.036-.071 (.0014-.0028)	0.086-0.107 (0.003-0.004)
		Bottom	0.0-0.071 (0.0-0.0028)	0.036-0.091 (0.001-0.004)
Ring groove diameter	No. 1 ring		85.14-85.39 (3.35-3.36)	
	No. 2 ring		85.14-85.39 (3.35-3.36)	
	No. 3. ring		84.84-85.09 (3.34-3.35)	

*Dressed engine mass (weight) includes the following: ENGINE ASSY. EXCEPT ALTERNATOR AND STARTER, CLUTCH COMPONENTS (for Manual Trans.)

(a) Total Clearance Volume.

(b) Includes Clutch Components

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

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description / Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Engine — General

Type (inline, V and Angle, Flat)		Inline, OHV	90°V, OHV
Location (Front, Mid, Rear)		Front	Front
Engine installation position (transverse, longitudinal)		Longitudinal	
Number of mtg. points	Front	Two	
	Rear	One (Transmission)	
No. of cylinders		Six	Eight
Bore		93.5 (3.68)	
Stroke		79.40 (3.126)	76.2 (3.00)
Piston Displacement cm^3 (in^3)		3300 (200)	4200 (255)
Bore Spacing (C/L to C/L)		104.1 (4.1)	111.25 (4.38)
Cylinder Block Material		Cast Iron	
Cylinder block deck height		198.32 (7.808)	208.43 (8.206)
Deck clearance (minimum) (above or below block)		0.038 (0.0015) (a)	0.013 (0.0005)
Cylinder Head Material		Cast Iron	
Cylinder Head Volume — cm^3		57.25 - 60.25	59 - 62
Head Gasket Thickness (Compressed)		0.533 (0.021)	1.1938 (0.047)
Head Gasket Volume — cm^3		3.86	10.10
Minimum Combustion Chamber Volume — cm^3 (b)		69.1	72.9
Cyl. No. system (front to rear)**	L Bank	--	5-6-7-8
	R. Bank	--	1-2-3-4
Firing Order		1-5-3-6-2-4	1-5-4-2-6-3-7-8
Recommended fuel (Leaded, unleaded)		Unleaded	
Fuel antiknock index (R + M) 2		N.A.	
Total dressed engine mass (wt) dry *		180 (397) Man. 158 (348) Auto.	196 (431)

Engine — Pistons

Material			Aluminum Alloy	
Description and finish (Flat, dished, dome, etc.)			Cast, Autothermic, Slipper Skirt, Cam Ground, Tin Plated	Cast, Slipper Skirt, Cam/machined and Tin Plated
Mass, g (weight, oz.) — Piston Only			442.5 (17.42)	473-467 (16.68-16.47)
Clearance (limits)	Top land		0.762 - 1.087 (.030-/.043)	0.8636 - 1.1557 (.0340- .0425)
	Skirt	Top	0.033 - 0.053 (.0013 - .0021)	0.036 - 0.061 (0.0014 - 0.0024)
		Bottom	0.0 - 0.071 (0.0 - 0.0028)	N.A.
Ring groove diameter	No. 1 ring		83.03 - 82.78 (3.27 - 3.26)	83.007 - 82.753 (3.268 - 3.258)
	No. 2 ring		83.03 - 82.78 (3.27 - 3.26)	83.007 - 82.753 (3.268 - 3.258)
	No. 3. ring		83.03 - 82.78 (3.27 - 3.26)	82.499 - 82.245 (3.248 - 3.238)

*Dressed engine mass (weight) includes the following:
(a) Below Cylinder Block - Head Face
(b) Total Clearance Volume
(c) At Centerline and 90° to Axis of Pin Hole

@ Includes Clutch Components.

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

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Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

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 Control	
Compression	Description — Material, coating, etc. #1	Cast Iron, Moly. Coated	Ductile Iron, Moly. Coated
	Description — Material, coating, etc. #2	Cast Iron, Oxide Coat or Phosphate	Cast Iron, Taper Face Chrom Plate
	Width	1.98-1.96 (0.078-0.077)	
	Gap	0.25-0.50 (0.010-0.020)	
Oil	Description — material, coating, etc. #3 Multipiece	Two Rails and One Spacer - Expander. Rails: (SAE 1070 or SAE 1074) Chrome - Plated Spacer - Expander: (SAE 30201 or SAE 30301)	
	Width	4.50-4.62 (0.177-0.182) (b); 0.584-0.635 (0.023-0.025) (c)	
	Gap (Rails Only)	4.0-0.8 (0.16-0.03)	
Expanders		Part of Oil Ring Assembly	

Engine — Piston Pins

Material			SAE - 1016, SAE - 5015 or SAE - 5115	
Length			76.5-77.2 (3.01-3.04)	
Diameter			23.175-23.162 (0.9119-0.9124)	
Type	Locked in rod, in piston, floating, etc.		Press Fit in Rod	
	Bushing	In rod or piston	None	
		Material	-	
Clearance	In piston		0.005-0.010 (0.0002-0.0004)	0.008-0.013 (0.0003-0.0005)
	In rod		0.0178-0.041 (0.0007-0.0016) Press Fit	
Direction & amount offset in piston			Right 1.52 (0.060)	Right 1.02 (0.040)

Engine — Connecting Rods

Material		Forged Steel, I-Beam SAE - 1041-H or SAE - 1541-H
Mass, g (weight, oz.)		626-642 (22.08-22.64)
Length (center to center)		132.24-132.16 (5.203-5.206)
Bearing	Material & Type (a)	Plated Copper-Lead Alloy on Steel Back, Replaceable Insert
	Overall length	20.1-20.3 (0.79-0.80)
	Clearance (limits)	0.020-0.061 (0.0008-0.0026)
	End Play	0.089-0.267 (0.0035-0.0105)

(a) Replaceable Inserts
(b) Expander
(c) Each Rail

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Engine Description / Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

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 Control	
Compression	Description — Material, coating, etc.	#1	Cast Iron, Barrel Face (a)	Cast Iron, Barrel Face (a)
		#2	Cast Iron, Scraper Groove (b)	Cast Iron, Phosphate Coated
	Width		1.98 - 1.96 (0.078 - 0.077)	
	Gap		0.20 - 0.41 (0.008 - 0.016)	0.25 - 0.51 (0.010 - 0.020)
Oil	Description — material, coating, etc.	#3	Multi-piece: Two rails and One Spacer - Expander Rails: Steel (SAE-1070) Chrome Plated, Black Oxide Coated Spacer - Expander: Steel AISI-C-1075	
	Width		4.78 - 4.80 (0.188 - 0.189)	3.76 - 3.96 (0.148 - 0.156)
	Gap		Rails Only: 0.381 - 1.397 (0.015 - 0.055)	
Expanders			Part of Oil Ring Assembly	

Engine — Piston Pins

Material			Steel SAE 5015 H.T.	
Length			76.45 - 77.22 (3.01 - 3.04)	77.22 - 76.45 (3.040 - 3.010)
Diameter			23.18 - 23.16 (0.912 - 0.912)	Select Fit
Type	Locked in rod, in piston, floating, etc.		Press Fit in Rod	
	Bushing	In rod or piston	None	
		Material	-	
Clearance	In piston		1.008 - 0.013 (0.0003 - 0.0005)	0.005 - 0.010 (0.0002 - 0.0004)
	In rod		Press Fit	
Direction & amount offset in piston			Right 2.29 (0.090)	Right 1.588 (0.0625)

Engine — Connecting Rods

Material		Nodular Cast Iron	Forged Steel, SAE-1541-H; Optional SAE-1151-M
Mass, g (weight, oz.)		530 (18.69)	569 - 557 (20.07 - 19.64)
Length (center to center)		119.76 (4.715)	129.25 - 129.32 (5.0885 - 5.0915)
Bearing	Material & Type	Plated Copper - Lead Alloy on Steel Back-Replaceable Insert	Plated aluminum Tin or Plated copper, Lead Alloy on Steel Back -
	Overall length	20.57 - 20.07 (0.81 - 0.79)	18.44 - 17.93 (0.726 - 0.706)
	Clearance (limits)	0.018 - 0.061 (0.0007 - 0.0024)	0.020 - 0.066 (0.0008-0.0026)
	End Play		0.254 - 0.508 (0.010 - 0.020)

(a) Moly. Coated
(b) Taper Face, Oxide Coated

* Replaceable Insert

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Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — Crankshaft

Material			Nodular Cast Iron Alloy
Vibration damper type			None
End thrust taken by bearing (No.)			No. 3
Crankshaft end play			0.10-0.20 (0.004-0.008)
Main bearing	Material & type (a)		Plated Copper-Lead on Steel Back
	Clearance		.020-.066 (.0008-.0026)
	Journal dia. and bearing overall length	No. 1	60.914 - 60.935, 24.0
		No. 2	60.914 - 60.935, 24.0
		No. 3	60.914 - 60.935, 24.0
		No. 4	60.914 - 60.935, 24.0
		No. 5	60.914 - 60.935, 24.0
		No. 6	--
		No. 7	--
	Dir. & amt. cyl. offset		None
	No. bolts/main brg. cap		2
Crankpin journal diameter			52.00 - 51.98 (2.0472 - 2.0465)

Engine — Camshaft

Location			Cylinder Head
Material			Hardenable Cast Iron, Phosphate Coated
Bearings	Material (a)		Aluminum Alloy on Steel Back
	Number		Four
Type of Drive	Gear, chain or belt		Belt, Cogged Gilmer Type
	Crankshaft gear or sprocket material		Sintered Iron
	Camshaft gear or sprocket material		Sintered Iron
	Timing chain	No. of links	Neoprene (b) 129 teeth
	Chain or Belt	Width	21.8 - 22.8 (0.86 - 0.90)
		Pitch	9.525 (0.375)

(a) Replaceable Inserts
(b) Glass Reinforced, Nylon Fabric Faced

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Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Engine — Crankshaft

Material			Nodular Cast Iron Alloy (4.2L - Green Sand Process)	
Vibration damper type			Tuned Elastic Suspended, Inertia Member	
End thrust taken by bearing (No.)			Five	Three
Crankshaft end play			0.102-0.203 (0.004-0.008)	
Main bearing	Material & type		Lead Base Babbitt on Steel Back	Plated Copper - Lead Alloy on Steel Back
	Clearance		.018-.061 (.0007 - .0024)	(b)
	Journal dia. and bearing overall length	No. 1	57.11 x 25.78 (2.249 x 1.015)	57.11 x 22.35 (2.249 x 0.880)
		No. 2	57.11 x 25.78 (2.249 x 1.015)	57.11 x 22.35 (2.249 x 0.880)
		No. 3	57.11 x 25.78 (2.249 x 1.015)	57.11 x 28.75 (2.249 x 1.132)
		No. 4	57.11 x 25.78 (2.249 x 1.015)	57.11 x 22.35 (2.249 x 0.880)
		No. 5	57.11 x 32.26 (2.249 x 1.270)	57.11 x 22.35 (2.249 x 0.880)
		No. 6	57.11 x 25.78 (2.249 x 1.015)	--
		No. 7	57.11 x 25.78 (2.249 x 1.015)	--
	Dir. & amt. cyl. offset		N.A.	R.B. Leads 17.92 (0.84)
	No. bolts/main brg. cap		2	
Crankpin journal diameter			53.94 - 53.92 (2.1240 - 2.1232)	53.93 (2.123)

Engine — Camshaft

Location			In Block	
Material			Special Alloy Iron, Green Sand Molded, Induction Hardened, Phosph. Coated	
Bearings	Material		Lead base Babbitt on Steel Back, Replaceable Inserts (a)	
	Number		4	5
Type of Drive	Gear, chain or belt		Chain	
	Crankshaft gear or sprocket material		Sintered Iron	Sintered Iron (Alt. - Steel)
	Camshaft gear or sprocket material		Sintered Iron	Aluminum Die Cast Body, Molded Nylon Teeth
	Timing chain	No. of links	50	58
	Chain or Belt	Width	19.35 - 19.23 (.762 - .757)	16.05 - 16.18 (0.632 - 0.637)
		Pitch	9.525 (0.375)	

(a) 3.3L Alternate - Aluminum Alloy on Steel Back
(b) No. 1 = 0.0025 - 0.0508 (0.0001 - 0.0020); Nos. 2-5 = 0.0127 - 0.0610 (0.0005 - 0.0024)

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Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — Valve System

Hydraulic lifters (Std., opt., NA)				Standard
Valve rotator, type (intake, exhaust)				Ford Free Turn Intake and Exhaust
Push rods (dia., length, material)				---
Rocker ratio				1.4:1 to 1.6:1
Operating tappet clearance (indicate hot or cold)	Intake			Zero
	Exhaust			Zero
Timing (based on top of ramp points)	Intake	Opens (°BTC)		22
		Closes (°ABC)		66
		Duration (deg.)		268
	Exhaust	Opens (°BBC)		64
		Closes (°ATC)		24
		Duration (deg.)		268
	Valve open overlap (deg.)			46
Intake Valve	Material			SAE-1547 Steel Alum. Hd. Silicon Chromium Steel
	Overall length			121.6 (4.787)
	Actual overall head dia.			44.07 (1.735)
	Angle of seat & face (deg.)			Seat 44° 30' to 45°00; Face 45° 30' to 45° 45'
	Seat insert material			None
	Stem diameter			8.694-8.677 (.3423 - .3416)
	Stem to guide clearance			.025 - .069 (.001 - .0027)
	Lift (at zero lash)			10.16 (0.400)
	Outer Spring press. & length	Valve closed — N at mm (lb. at in.)		316 - 351 @ 39.6 (71 - 79 @ 1.56)
		Valve open — N at mm (lb. at in.)		707 - 778 @ 29.5 (159 - 175 @ 1.16)
	Inner spring press. & length	Valve closed — N at mm (lb. at in.)		None
		Valve open — N at mm (lb. at in.)		None
Exhaust Valve	Material			Austenitic Steel (21-2N) Alum.Hd. Chromium, Nickel Alloy
	Overall length mm(in.)			122.10 (4.807)
	Actual overall head dia.			38.10 (1.500)
	Angle of seat & face (deg.)			Seat 44° 30' to 45°; Face 45° 30' to 45° 45'
	Seat insert material			None
	Stem diameter			8.682 - 8.664 (0.3418 - 0.3411)
	Stem to guide clearance			0.038 - 0.081 (0.0015 - 0.0032)
	Lift (at zero lash)			10.16 (0.400)
	Outer spring press. & length	Valve closed — N at mm (lb. at in.)		316 - 351 @ 39.6 (71 - 79 @ 1.56)
		Valve open — N at mm (lb. at in.)		707 - 778 @ 29.5 (159 - 175 @ 1.16)
	Inner spring press. & length	Valve closed — N at mm (lb. at in.)		None
		Valve open — N at mm (lb. at in.)		None

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Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Engine — Valve System

Hydraulic lifters (Std., opt., NA)			Standard		
Valve rotator, type (intake, exhaust)			Ford Free Turn Intake and Exhaust	Positive on Exhaust; 2-Piece on Intake	
Push rods (dia., length, material)				7.899 (0.311), 175.39 (6.905) Steel	
Rocker ratio			1.52:1	1.59:1	
Operating tappet clearance (indicate hot or cold)	Intake		Zero		
	Exhaust		Zero		
Timing (based on top of ramp points)				Calif.	49 States
	Intake	Opens (°BTC)	20	16	16
		Closes (°ABC)	52	48	48
		Duration (deg.)	254	244	244
	Exhaust	Opens (°BBC)	59	48	57
		Closes (°ATC)	15	16	19
		Duration (deg.)	254	244	256
	Valve open overlap (deg.)		35	32	35
Intake Valve	Material		SAE-1547 Steel, Alum. Hd.		
	Overall length		108.2 (4.26)	128.78 (5.07)	
	Actual overall head dia.		44.70 - 44.25 (1.76 - 1.74)	42.67 (1.68)	
	Angle of seat & face (deg.)		Seat 44° 30' to 45°; Face 45°	30' to 45° 45'	
	Seat insert material		None		
	Stem diameter		7.78 - 7.89 (.311 - .310)	8.676 - 8.694 (.3416 - .3423)	
	Stem to guide clearance		.020 - .063(0.0008 - .0025)	0.025 - 0.069 (0.0010 - 0.0027)	
	Lift (at zero lash)		9.459 (.372)	9.55 (0.376)	
	Outer Spring press. & length	Valve closed — N at mm (lb. at in.)	240 @ 40.39 (54 @ 1.59)	3.47 @ 45.2 (78 @ 1.78)	
		Valve open — N at mm (lb. at in.)	667 @ 30.99 (150 @ 1.22)	854 @ 35.6 (192 @ 1.4)	
	Inner spring press. & length	Valve closed — N at mm (lb. at in.)	None		
		Valve open — N at mm (lb. at in.)	None		
Exhaust Valve	Material		Cast Austenitic Steel, Aluminized Head		
	Overall length		108.2 (4.26)	126.3 (5.01)	
	Actual overall head dia.		35.6 - 35.1 (1.40 - 1.38)	36.83 (1.45)	
	Angle of seat & face (deg.)		Seat 44° 30' to 45°; Face 45°	30' to 45° 45'	
	Seat insert material		None	Induction Hardened	
	Stem diameter		7.89 - 7.89 (0.311 - 0.310)	8.682 - 8.664 (0.3418 - 0.3411)	
	Stem to guide clearance		0.025 - 0.069(0.001 - 0.0027)	0.038 - 0.081 (0.0015 - 0.0032)	
	Lift (at zero lash)		9.459 (.372)	9.55 (0.376)	
	Outer spring press. & length	Valve closed — N at mm (lb. at in.)	240 @ 40.39 (54 @ 1.59)	316 @ 40.6 (80 @ 1.6)	
		Valve open — N at mm (lb. at in.)	667 @ 30.99 (150 @ 1.22)	763 @ 30.9 (193 @ 1.22)	
	Inner spring press. & length	Valve closed — N at mm (lb. at in.)	None		
		Valve open — N at mm (lb. at in.)	None		

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

Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (*) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure	
	Connecting rods	Pressure	
	Piston pins	Oil Mist & Splash	
	Camshaft bearings	Pressure	
	Tappets	Pressure	
	Timing gear or chain	None	
	Cylinder walls	Splash, squirt & mist	
Oil pump type		Gerotor	
Normal oil pressure-kPa(psi) at engine rpm		345 (50) PSI @ 2000 rpm	379 (55) PSI @ 2000 rpm
Type oil intake (floating, stationary)		Stationary, Shrouded Screen in Sump	
Oil filter system (full flow, part. other)		Full Flow	
Capacity of c/case, less filter-refill-L(qt.)		3.8(4.0) Plus 0.9(1.0)for Filter	4.3(4.5) Plus 0.9(1.0)for Filter
Oil grade recommended (SAE viscosity and temperature range)		Multi-Viscosity +10°F & Above - SAE 20W40 -10°F to +90°F - SAE 10W40 -10°F to +90°F - SAE 10W30 -32°F to +32°F - SAE 5W30	Single Viscosity +60°F & Above - SAE 40 +32°F to +90°F - SAE 30 +10°F to +60°F - SAE 20-20W -10°F to +32°F - SAE 10-10W
Engine service reqmt. (SD, SE, etc.)		SF (Ford Specification ESE-M2C-153-B)	

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single	
Muffler No. & Type (reverse flow, straight thru, separate resonator)		One, Reverse Flow	
Resonator No. & type		N.A.	One, Straight Thru
Exhaust Pipe	Branch O.D., wall thickness	N.A.	
	Main O.D., wall thickness	44.5 x 1.75 (2.00 x 0.054) Solid	
	Material	Aluminized	
Inter-mediate Pipe	O.D. & wall thickness	50.8 x 1.75 (2.00 x 0.069)	
	Material	Low Carbon Steel	
Tail Pipe	O.D. & wall thickness	47.8 x 1.37 (1.88 x 0.054)	
	Material	Aluminized	

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Passenger Car
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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure	
	Connecting rods	Pressure	
	Piston pins	Oil Mist and Splash	
	Camshaft bearings	Pressure	
	Tappets	Pressure	
	Timing gear or chain	Oil Mist (Groove #1 Cam Bearing) Drip	
	Cylinder walls	Squirt and Splash	Splash & Oil Mist
Oil pump type		Gerotor	Rotor
Normal oil pressure-kPa(psi) at engine rpm		207 - 345 (30-50) @ 2000	275.8 - 413.7 (40-60) @ 2000
Type oil intake (floating, stationary)		Stationary (4.2L - Shrouded Screen in Sump)	
Oil filter system (full flow, part. other)		Full Flow	
Capacity of c/case, less filter-refill-L(qt.)		3.8 Plus 0.9 For Filter (4.0 Plus 1.0 for Filter)	
Oil grade recommended (SAE viscosity and temperature range)		Multi-Viscosity +10°F & Above - SAE 20W40 -10°F to +90°F - SAE 10W30 or 40 -32°F to +32°F - SAE 5W30	Single Viscosity +60°F & Above - SAE 40 +32°F to +90°F - SAE 30 -10°F to +32°F - SAE 20-20W
Engine service reqmt. (SD, SE, etc.)		SE (Ford Spec. ESE-M2C-153-A)	SE (Ford Spec. ESE-M2C-101-C)

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single	Single with Y System
Muffler No. & Type (reverse flow, straight thru, separate resonator)		One, Reverse Flow	One Louvre Flow
Resonator No. & type		N.A.	One Straight Through
Exhaust Pipe	Branch O.D., wall thickness	N.A.	
	Main O.D., wall thickness	44.5 x 1.75 (1.75x0.069) Solid	57.0 x 1.9 (2.25x.076) Min. (Laminated)
	Material	Aluminized Inside	C.R.S.
Inter-mediate Pipe	O.D. & wall thickness	50.8 x 1.75 (2.00 x 0.069)	50.8x1.9(2.00x0.069 Min.)(Solid)
	Material	Low Carbon Steel	Low Carbon Steel
Tail Pipe	O.D. & wall thickness	47.8 x 1.37 (1.88 x 0.054)	57.0 x 1.9 (2.25 x 0.069)
	Material	Aluminized Steel	Aluminized Steel

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

Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — Fuel System

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

Induction type: Carburetor, fuel injection system, etc.			Carburetor (downdraft)	
Fuel Tank	Refill capacity — L (U.S. gals.)		47.3 (12.5) Approx. (45.0 (11.9) on 2.3 Turbo w/Auto. Trans.), (c)	
	Filler location		Right Rear Side	
Fuel Pump	Type (elec. or mech.)		Mechanical	Mech.-Man.Trans.;Elec.-Auto.Trans.
	Locations		Left Side of Engine	Left Side of Eng.-Man.Trans.(a)
	Pressure range — kPa (psi)		37.9 - 44.8 (5.0 - 6.5)	37.9-44.8(5.5 - 6.5)-Man.Trans.(b)
Fuel Filter	Type (Series 2 req		d.) #1 Poly-Chloride Cloth; #2 Nylon or Monel Cloth	
	Locations		#1 Serviceable Fuel Tank; #2 in Fuel Line at Carburetor	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Water	
	Air cleaner type	Standard	Dry Replaceable Element & Hot & Cold Air Supply	
		Optional	None	
	Idle spd.-rpm (spec. neutral or drive)	Manual	850 Neutral	--
		Propane (Neu.)		
		Automatic	750 (Drive)	800 (Drive) (600 (Drive) Calif.)
		Propane (Neu.)		
	Idle A/F mix.		N.A.	

(a) Inside Fuel Tank - Auto. Trans.
(b) 17.24 - 20.68 (2.5 - 3.0)
(c) 58.2 (15.4) as of April, 1981.

Carburetor Supplementary Information

Model Usage	Engine Displ. — L (in.^{3})	Transmission	Carburetors		No. Used and Type (Barrels)	Barrel Size
			Make	Model		

Engine — Diesel Information

Glow plug		
Injector nozzle	Type	
	Opening pressure—kPa, (psi)	
Pre-Chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

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

Induction type: Carburetor, fuel injection system, etc.			Carburetor (Downdraft)	
Fuel Tank	Refill capacity — L (U.S. gals.)		47.3 (12.5) Approx., 58.2 (15.4) as of April, 1981.	
	Filler location		Right Rear Quarter Panel	
Fuel Pump	Type (elec. or mech.)		Mechanical	
	Locations		Left Side of Engine	
	Pressure range — kPa (psi)		37.9 - 44.8 (5.5 - 6.5)	41.4 - 55.2 (6-8)
Fuel Filter	Type		#1 Woven Poly-Chloride Cloth(a)	#1Ply.Chl.Cl.,#2 Nyl.cloth
	Locations		#1 Serviceable In-Fuel Tank, #2 In-Fuel Line in Carburetor	
Carburetor	Choke type		Automatic, Electrically Operated	Automatic - Full Electric
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Dry Replaceable Element - Hot & Cold Air Control	
		Optional	None	
	Idle spd.-rpm (spec. neutral or drive)	Manual	900 (Neutral) w/ A/C on	--
		Propane (Neu.)	20 - 60 Gain	
		Automatic	700 (Drive) (49S) w/ A/C on	500 (Drive)
		Propane (Neu.)	10 - 30 Gain	--
	Idle A/F mix.			

(a) #2 Nylon and Monel Cloth with Magnet

Carburetor Supplementary Information

Model Usage	Engine Displ. — L (in.³)	Transmission	Carburetors		No. Used and Type (Barrels)	Barrel Size
			Make	Model		
49S	4.2	A/T, AOD	Motorcraft	2150	1-2V	1.08"
50S	3.3L	Man/Auto	Holley	1946	1 & 1V	1.69"

Engine — Diesel Information

Glow plug		
Injector nozzle	Type	
	Opening pressure—kPa, (psi)	
Pre-Chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

MVMA Specifications Form
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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Engine — Cooling System

Coolant recovery system (std., opt., none)			Standard	
Radiator cap relief valve pressure — kPa (psi)			82.7 (13) (a)	
Circulation thermostat	Type (choke, bypass)		By-Pass	
	Starts to open at °C (°F)		87 - 91 (188 - 195)	
Water pump	Type (centrifugal, other)		Centrifugal - Vane	
	GPM 1000 pump rpm		11.5	
	Number of pumps		One	
	Drive (V-belt, other)		V-Belt	
	Bearing Type		Double Row, Sealed, Ball and Roller (3/4")	
By-pass recirculation type (inter., ext.)			Internal	
Radiator core type (cross-flow) vertical, cellular, tube and fin, other)			Down Flow, Tube and Fin (Non A/C) Cross Flow - Tube and Slit Fin (A/C)	
Cooling System Capacity	With heater — L(qt.)		8.2 (8.6)	
	Without heater — L(qt.)		N.A.	
	Opt. equipment-specify — L (qt.)		8.9 (9.4) w/A/C	
Water jackets full length of cyl. (yes, no)			Yes	
Water all around cylinder (yes, no)			Yes	
Radiator hose	Lower	Number and type (molded, straight)	One-Molded	
		Inside diameter	32 (1.25) at Radiator; 38 (1.50) at Water Pump	
	Upper	Number and type (molded, straight)	One-Molded	
		Inside diameter	32 (1.25) at Radiator; 30 (1.18) at Water Connection	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	--	
Radiator (Core)	Standard	Width	623.3 (24.5)	
		Height	452.1 (17.8)	
		Thickness	37.8 (1.49)	
	A/C	Width	623.3 (24.5)	
		Height	453.1 (17.8)	
		Thickness	37.8 (1.49)	
	Heavy duty	Width	N.A.	
		Height		
		Thickness		
Fan (Standard)	Number of blades & type - Flex/Solid		4 Uneven	4 Uneven - Elec. Motor Driven
	Diameter		406.6 (16.00)	355.6 (14.00)
	Ratio -- fan to crankshaft rev.		1.05:1	1500 rpm - Constant
	Fan cutout type		None	Temp. Switch (Top Water)
	Drive Type Number of Fans		Belt driven, one	Electric Motor Driven, one
Fan (optional) A/C	No. of blades and spacing		5 Uneven	N
	Diameter		419.1 (16.50)	O
	Ratio - fan to crankshaft rev.		1.05:1	N
	Fan cut-out type		Flex Blade	E
	Drive Type Number of Fans		Belt driven, one	

(a) 110.3 (16) with A/C

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Passenger Car
METRIC (U.S. Customary)

Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description / Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Engine — Cooling System

Coolant recovery system (std., opt., none)			Standard	
Radiator cap relief valve pressure — kPa (psi)			110.3 (16) (a)	
Circulation thermostat	Type (choke, bypass)		Choke - Poppet or Sleeve Valve	
	Starts to open at °C (°F)		86.7° - 90.6° (188° - 195°)	86 - 90 (188 - 195)
Water pump	Type (centrifugal, other)		Centrifugal - Vane	
	GPM 1000 pump rpm		10.5	15.0
	Number of pumps		One	
	Drive (V-belt, other)		V-Belt	
	Bearing Type		Double Row, Sealed, Ball & Ball	Serpentine (Poly-V Belt)
By-pass recirculation type (inter., ext.)			Internal	External
Radiator core type (cross-flow) vertical, cellular, tube and fin, other)			Downflow, Tube and Fin Crossflow, Tube and Fin (A/C)	Crossflow, Tube and Slit Fin
Cooling System Capacity	With heater — L (qt.)		7.9 (8.4)	13.9 (14.7)
	Without heater — L (qt.)		7.9 (8.4)	13.3 (14.1)
	Opt. equipment-specify — L (qt.)		7.9 (8.4) w/A/C	14.2 (15.0) w/A/C
Water jackets full length of cyl. (yes, no)			Yes	
Water all around cylinder (yes, no)			Yes	
Radiator hose	Lower	Number and type (molded, straight)	One-Molded	
		Inside diameter	38 (1.50) at Radiator; (b)	38 (1.50) at Radiator; (c)
	Upper	Number and type (molded, straight)	One-Molded	
		Inside diameter	38 (1.50) at Radiator; (d)	32 (1.25) at Radiator; (e)
	By-pass	Number and type (molded, straight)	None	One, Molded
		Inside diameter	--	15.6 (0.615)
Radiator (Core)	Standard	Width	622.3 (24.50)	
		Height	453.1 (17.84)	
		Thickness	20.6 (0.81)	37.8 (1.49)
	A/C	Width	622.3 (24.50)	
		Height	453.1 (17.84)	
		Thickness	20.6 (0.81)	37.8 (1.49)
	Heavy duty	Width	--	
		Height	--	
		Thickness	--	
Fan (Standard)	Number of blades & type - Flex/Solid		4 Even	7 Uneven
	Diameter		419.1 (16.5)	469.9 (18.5)
	Ratio — fan to crankshaft rev.		1.18:1	1.25:1
	Fan cutout type		None	Clutch
	Drive Type-Number of Fans		Belt driven, one	Clutch, one
Fan (optional)	No. of blades and spacing		5 Uneven solid	7 Uneven
	Diameter		419.1 (16.5)	469.9 (18.5)
	Ratio — fan to crankshaft rev.		1.25:1	
A/C	Fan cut-out type		Clutch	
	Drive Type-Number of Fans		Clutch	

(a) 110.3 (16) with A/C (b) 44.5 (1.75) at Water Pump
(c) 44.5 (1.75) at Water Pump (d) 32 (1.25) at Water Pump (e) 38 (1.50) at water out connection

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)			Vehicle, Engine, Carb. and Distributor Modifications Plus Exhaust Gas Recirculation and Air Injection (a)	
	Air Injection Pump	Type		Vane Type, Constant Displacement	
		Displacement — cm^3 (in^3)		180 (11)	
		Drive ratio		0.95:1	
		Drive type		Belt	
		Relief valve (type)		None	
		Filter (describe)		Centrifugal	
	Air Injection System	Air distribution (head, manifold, etc.)		Exhaust Manifold and Cylinder Head (a) (b)	
		Point of entry		Exhaust Port in Cyl. Head (3-Port all COC; 4-Port TWC)	
		Injection tube i.d. (Drilled)		8.6 (0.34)	
		Check valve type		Diaphragm	
		Backfire protection (type)		Check Valve	
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)		Controlled Flow	
		Valve type		Vacuum Operated	Vacuum Operated Poppet
		Valve location		Carb. Spacer	Intake Manifold
		Control energy source		Carburetor Port	
		Exhaust source		External Tube	
		Exhaust cooler type		None	
		Orifice no. and size		None - Tapered Stem One	
		Point of exhaust injection (spacer, carburetor, manifold, other)		Carburetor Spacer	Intake Manifold
	Catalytic Converter System	Catalyst	Type	Monolithic	
			Volume — L (in^3)		
		Substrate type		Coated Ceramic Monolith	
		Container location		49S - Under Body & Toeboard; Calif. - Under Body Only	All States - Under Body & Toeboard
		No. of Converters		Two (49S); One (Calif.)	Two (All States)
	Other Exh. Gas Catalytic Conversion System	Conv. Size-(in^3)		(67) Under Toeboard & (66) Under Body - 49S; (160) Under Body - Calif.	(42) Under Toeboard & (55) Under Body - 49S; (42) Under Toeboard & (92) Under Body - Calif.

(a) Pulse air Emission System replaces Air-Injection Pump on 2.3L-2V Non-Turbo Engine with auto. trans. for 49-state applications during a model year.

(b) Exhaust Manifold entry with Pulse Air.

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Passenger Car
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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code: 3.3L (200 CID)

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		Vehicle, Engine, Carburetor and Distributor Modifications Plus Exhaust Gas Recirculation (b)
	Air Injection Pump	Type	Van Type, Constant Displacement
		Displacement — cm^3 (in^3)	311 (19)
		Drive ratio	1.37:1
		Drive type	Belt
		Relief valve (type)	None
		Filter (describe)	Centrifugal
	Air Injection System	Air distribution (head, manifold, etc.)	External Air Manifold
		Point of entry (a)	Multiple or Single Entry to Man.
		Injection tube i.d.	6.4 (0.25) Multiple, 17.27 (0.680) Sgl.
		Check valve type	Diaphragm (c)
		Backfire protection (type)	By Pass Valve
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	Controlled Flow Pintle
		Valve type (a)	Poppet or Tapered B/P EGR
		Valve location	Intake Manifold
		Control energy source	Carb. Port & B/P
		Exhaust source	External Tube
		Exhaust cooler type	None
		Orifice no. and size (a)	3.18 - 11.43 (.125 - .45)
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
	Catalytic Converter System	Catalyst — Type	Monolithic
		Catalyst — Volume — L (in^3)	2.3 (140) - 49S; 2.5 (154) - Calif.
		Substrate type	Coated Ceramic Monolith
		Container location	Transverse Mtd. under Trans. Ext. Hsg. & Exhaust Flange Mounted & Flange Mounted on Exhaust Manifold
	Other	No. of Converters	Two
		Conv. Size (in^3)	(62) Flange mount - 50 states
			(66) Underbody mount - 50 states

(a) Exact Components Vary According to Engine Calibration.

(b) Pulse air Emission System replaces Air-Injection pump with automatic trans. for 49-State applications during model year.

(c) Two reed-type check valves for Pulse Air.

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code: 4.2L (255 CID) (49-States)

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		Vehicle and Engine Modifications Plus Exhaust Gas Recirculation and Air Injection (a)
	Air Injection Pump	Type	Vane
		Displacement — cm^3 (in^3)	311 (19) (Constant Displacement)
		Drive ratio	1.36:1
		Drive type	Belt - Serpentine
		Relief valve (type)	None
		Filter (describe)	Centrifugal
	Air Injection System	Air distribution (head, manifold, etc.)	Cylinder Head/Catalyst
		Point of entry	Multiple to Cylinder Head or Catalyst Mid-Bed
		Injection tube i.d.	6.35 (0.25) Multiple, 17.27 (0.680) Single
		Check valve type	Diaphragm
		Backfire protection (type)	Check Valve
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	Controlled Flow Pintle
		Valve type (a)	B/P
		Valve location	Intake Manifold
		Control energy source	Carburetor Port Vacuum & B/P
		Exhaust source	Intake Man. Crossover
		Exhaust cooler type	None
		Orifice no. and size (a)	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
	Catalytic Converter System	Catalyst — Type	TWC/COC
		Catalyst — Volume — L (in^3)	
		Substrate type	Monolithic
		Container location	Toe Board Mounted R.H. & Transverse Mounted under Trans.
		No. of Converters	Two
	Other		1) (42) Toeboard
			2) (110) Underbody

(a) Components vary according to Engine Calibration.

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Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard		Induction System (Closed System)	
		Optional		None	
	Control Unit	Make and model 6C317		Ford D8EE-AA (a)	Ford D8DE-AA
		Location		Left Side Crankcase Rocker Cover	
		Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	Carb. Plenum Vac.
		Control method (variable orifice, fixed orifice, other)		Variable Orifice	
	Complete System	Discharges (to intake manifold, other)		Carb. Spacer	Intake Manifold
		Air inlet (breather cap, other)		Carb. Air Cleaner	
		Flame arrestor (screen, other)		Emission Valve and Air (b)	Emission Valve & (c)
Evaporative Emission Control	Fuel Tank	Thermal expansion volume — dm^3 (ft^3)		N.A.	
		Relief Pressure kPa (psi) and location		11.0 (1.6) Min. Opening Press; Orifice Assy. in Tank Plus Valve in Filler Cap.	
		Vacuum relief - kPa (psi) and location		3.5 (0.50) Max. Opening Press; Orifice Assy. in Tank Plus Valve in Filler Cap.	
		Vapor-liquid separator type		Orifice and Float Valve Assy. in Top of Fuel Tank	
		Vapor vented to (crankcase, canister, other)		Carbon Canister	
	Carbu-etor	Vapor vented to (crankcase, canister, other)		Externally Vented to Carbon Canister	
				Internally Vented to Air Cleaner	
	Vapor Storage	Storage provision (crankcase, canister, other)		Carbon Canister	
		Volume — dm^3 (ft^3) or capacity (grams) (Milli-liter)		925	
		Control valve type		Purge Valve	

Other — MCU System (2.3L 50 States): The Microprocessor Control Unit (MCU) Controls Feedback Carburetor, Canister Purge and Secondary Air.

(a) D8EE-BA - 49 States Manual Transmission
(b) Cleaner Filter
(c) Breather Cap

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Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description / Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Induction (Closed) System	
			Optional	None	
	Control Unit	Make and model		D9BE-6A666-CA	D8ZE-6A666-AB
		Location		Rocker Arm Cover (3.3L - Left Side)	
		Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
		Control method (variable orifice, fixed orifice, other)		Variable Orifice	
	Complete System	Discharges (to intake manifold, other)		Carb. Spacer	Intake Manifold
		Air inlet (breather cap, other)		Carburetor Air Cleaner	
		Flame arrestor (screen, other)		Emission Valve and Air Cleaner Filter	
Evaporative Emission Control	Fuel Tank	Thermal expansion volume — dm^3 (ft^3)		7.6 (0.27) Approx.	11.3 (0.4) Approx.
		Relief Pressure kPa (psi) and location		11.0 (1.6) Min. Opening Pressure with Open Orifice Assembly in Tank, Plus Valve in Filler Cap	
		Vacuum relief kPa (psi) and location		3.5 (0.5) Max. Opening Pressure with Open Orifice Assy. in Tank, Plus Valve in Filler Cap	
		Vapor-liquid separator type		Orifice and Float Valve Assy. in Top of Fuel Tank	
		Vapor vented to (crankcase, canister, other)		Carbon Canister	
	Carbu-etor	Vapor vented to (crankcase, canister, other)		Externally Vented to Carbon Canister	
				Internally Vented to Air Cleaner	
	Vapor Storage	Storage provision (crankcase, canister, other)		Carbon Canister	
		Volume — dm^3 (ft^3) or capacity (grams)		925 ml	1400 ml
		Control valve type		Purge Solenoid	Elec. Solenoid w/MCU control

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

Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID) (a)	3.3L (200 CID)	4.2L (255 CID)

Electrical — Supply System

Battery	Make and Model -10655-		Motorcraft EOAF-BA	EOAF-AA	
	Voltage Rtg. — V — & Total Plates		12 Volt		
	SAE Designation No. and/or capacity		45 A.H., 54 A.H. Opt.	36 A.H., 45 A.H. and 54 A.H. Opt. - EOAF-CA	
	Location		Right - Front Corner of Engine Compartment		
Generator or Alternator	Make		Motorcraft		
	Model -10300 -		See page 12A		D9ZF-AA (60A)
	Type and rating		3-Phase, Full Wave Bridge Rectified, Self-Limiting		
	Output at engine idle (neutral) A		--		
	Ratio — Gen. to Cr/s rev.		2.31:1		3.0:1
Regulator	Make		Motorcraft		
	Model -10316		D9VF-AB		
	Type		Electronic		
	Regulated	Voltage	13.8 - 14.6		
		Current A	Not Applicable		
	Voltage test conditions	Temperature — °C (°F)	24° (75°)		
		Load A	5 Amps		
		Other	--		

Electrical — Starting System

Starting Motor	Make		Motorcraft		
	Model - 11001 -		E1BF-AA (b)	E1BF-AA (c)	E1AF-BA
Motor Drive	Engagement Type		Positive (Electro-Mechanical)		
	Pinion engages from (front, rear)		Front		
	Number of teeth	Pinion	9		
		Flywheel — Manual	132	136	None
		Flywheel — Auto	135	132	164

(a) Both Non-Turbo & Turbo Engines
(b) Manual & Auto. Trans.
(c) Shown w/Man. Trans.; E1BF-BA w/Auto. Trans.

Alternator Applications (-10300-)

	Non A/C Alt. Rating	Drive Ratio	A/C Alternator Rating	Drive Ratio
2.3L	E1ZF-AA (40) Std	2.31	E1ZF-CA (60)	2.31
	E1ZF-DA (40) (with P/S)	2.31	E1BF-AA (60) (with P/S)	2.42
	E1ZF-CA (60) (B less P/S)	2.31		
	E1ZF-BA (60) (B with P/S)	2.42		
3.3L	E1ZF-AA (40) Std	2.31	E1BF-AA (60) (M)	2.42
	E1ZF-CA (60) (M with B)	2.31	E1BF-BA (70) (A)	2.20
	E1ZF-EA (70) (A with B)	2.20		
4.2L	E1ZF-FA (60) Std	3.00	E1ZF-FA (60)	3.00
			E1AF-DA (70) (B)	2.68

(B) Heated Backlight
(M) Manual Trans.
(A) Automatic Trans.

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Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (•) _____

Engine Description / Carb.
Engine Code

Electrical — Ignition System — Distributor

Distributor	Manual	NOT AVAILABLE
	Automatic	
Timing	Manual	
	Automatic	

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at kPa (in. of Hg.)	
	Start	Intermediate	Maximum	Start	Maximum

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) Turbo

Electrical — Ignition System

Type	Conventional — Std., Opt., N.A.		N.A.	
	Transistorized — Std., Opt., N.A.		Breakerless Duraspark II	
	Other (specify)		None	
Coil	Make		Motorcraft	
	Model - 12029 -		D5AE-AB (D7AE-AA Calif.)	
	Current	Engine stopped — A	5.0 (0.0 Calif.)	
		Engine idling — A	2.5 (1.0 Calif.)	
Spark Plug	Make		Motorcraft	
	Model - 12405 -		AWSF-42	AWSF-32
	Thread (mm)		14	
	Tightening torque — N-m (lb. ft.)		13.6-20 (10-15)	
	Gap		0.86 (0.034)	

Electrical — Suppression

Locations & type	Capacitor in Alternator, Capacitor on Voltage Regulator, Resistor Spark Plugs & Resistance Core Ignition Wire. Ground Cable - Engine to Dash Ground Cable, Hood Bond, and Windshield Wiper Motor Capacitor Module (FM Radios Only). RF Shield on underside of Hood Scoop (2.3L Turbo only).

Electrical — Instruments and Equipment

Speedometer	Type	Pointer
	Trip odometer (std., opt., N.A.)	Std.
EGR maintenance indicator		None
Charge Indicator	Type	Ammeter (Shunt) 45° Pointer
	Warning device	None
Temperature Indicator	Type	Electric Gauge, 45° Pointer
	Warning device	None
Oil pressure Indicator	Type	Electric Gauge, 45° Pointer
	Warning device	None
Fuel Indicator	Type	Electric Gauge, 45° Pointer
	Warning device	Low Fuel Warning Light in Console - Optional (c)
Windshield Wiper	Type — standard	Two-Speed Electric (Column Mounted Stalk Control)
	Type — optional	Interval Wipe (Column Mounted Stalk Control)
	Blade length	41.9 (16.5)
	Swept area — cm^2 ($in.^2$)	4817.5 (746.9)
Windshield Washer	Type — standard	Electric Pump (Impeller Type)
	Type — optional	None
	Fluid level indicator	Optional (Warning Light) (c)
Horn	Type	Electric
	Number used	1
Other		Brake System Warning Light - Emergency Flasher, Directional Signal, Lights, Hi-Beam Indicator, Fasten Seat Belts Warning Light Std., Elec. Tach. (6000 rpm) - Std., Door Ajar Warning Light and Headlamps "On" Warning Buzzer (N.A. in Cluster Area) - Optional.

(a) California

(c) Elec. Graphic Display warning indicator system in-console. Also includes Lamp-out Indicator for Headlamps, Taillights or Brakelights.

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•)

Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Electrical — Ignition System

Type	Conventional — Std., Opt., N.A.		N.A.	
	Transistorized — Std., Opt., N.A.		Breakerless Duraspark II	
	Other (specify)		None	
Coil	Make		Motorcraft	
	Model		D5AE-AB	
	Current	Engine stopped — A	5.0	
		Engine idling — A	2.5	
Spark Plug	Make		Motorcraft	
	Model		BRF-82	ASF-42
	Thread (mm)		18	14
	Tightening torque — N-m (lb. ft.)		20.3 - 27.1 (15-20)	14 - 20 (10-15)
	Gap		1.27 (0.050)	1.3 (0.50)

Electrical — Suppression

Locations & type	(See Page 14)

Electrical — Instruments and Equipment

Speed-ometer	Type	
	Trip odometer (std., opt., N.A.)	(See Page 14)
EGR maintenance indicator		
Charge Indicator	Type	
	Warning device	
Temperature Indicator	Type	
	Warning device	
Oil pressure Indicator	Type	
	Warning device	
Fuel Indicator	Type	
	Warning device	
Wind-shield Wiper	Type — standard	
	Type — optional	
	Blade length	
	Swept area — cm^2 ($in.^2$)	
Wind-shield Washer	Type — standard	
	Type — optional	
	Fluid level indicator	
Horn	Type	
	Number used	
Other		

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO	3.3L (200 CID)

Drive Units — Clutch (Manual Transmission)

Make & type		Single Disc. Dry Plate		
Type pressure plate springs		Belleville Spring		
Total spring load — N (lb.)		4693 (1055)	5778 (1299)	5160 (1160)
No. of clutch driven discs		One		
Clutch facing	Material	Woven Asbestos		Woven Asbestos/(a)
	Manufacturer	Porter	Raybestos	Raybestos
	Part Number	-		
	Rivets/Plate	12		24
	Rivet size	9/64 x 7/32		
	Outside & inside dia.	(8.5 x 5.75)		230x152.4(9.06x6.0)
	Total eff. area-cm^2 (in.^{2})	397.2 (61.56)		467.1 (72.4)
	Thickness	3.18 (.125)		
	Engagement Cushion method	Torbend Disk		
Release bearing	Type & method of lubrication	Self-Centering, Angular Contact, Constant Running, Prepacked		
Torsional damping	Method: springs, friction material	Steel Coil Springs		

Drive Units — Transmissions

Manual 3-speed (std., opt., N.A.)	N.A.				
Manual 4-speed (std., opt., N.A.)	Std.	N. A.		Std. (b)	Std. (c)
Manual 5-speed (std., opt., N.A.)	N.A.				
Manual overdrive (std., opt., N.A.)	Opt. - 5-Speed		- 5-Speed(d)	N.A.	
Automatic (std., opt., N.A.)	Opt. (C-3, C-4)		Opt. (C-3)	Opt. (C-3, C-4)(c)	
Automatic overdrive (std., opt., N.A.)					

Drive Units — Manual Transmission

Number of forward speeds		Four	Five	Five	Four	
Transmission ratios	In first	3.98:1	3.72	3.72:1	3.29:1	4.07:1
	In second	2.14:1	2.23	2.23:1	1.84:1	2.57:1
	In third	1.42:1	1.48:1	1.48:1	1.00:1	1.66:1
	In fourth	1.00:1	1.00:1	1.00:1	0.81:1	1.00:1
	In fifth		0.76:1	0.76:1		
	In overdrive					
	In reverse	3.99:1	3.59:1	3.59:1	3.29:1	3.95:1
Synchronous meshing, specify gears		1st, 2nd, 3rd, 4th (Also 5th w/5-Speed)				
Shift lever location		Floor				
Lubricant	Capacity — L (pt.)	1.3 (2.8)	1.7 (3.5)		1.9 (4.0)	1.7 (3.5)
	Type recommended	ESP-M2C83-C				
	SAE viscosity number — Summer	80				
	SAE viscosity number — Winter	80				
	SAE viscosity number — Extreme cold	--				

(a) Woven Asbestos/Non-Asbestos
(b) Std. (W/Overdrive 4th Gear) California Only
(c) 49-S Only
(d) Canada Only

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

Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7-81

Engine Description/Carb. Engine Code	2.3L (140 CID)

Drive Units — Automatic Transmission

Trade name		Select-Shift (C-3)
Type (describe)		Torque Converter with Planetary Gears
Selector	Location	Floor Mounted
	Ltr./No. Designation	P R N D 2 1
Gear Ratios	R	2.11:1
	D	1.00:1
	L_3	--
	L_2	1.47:1
	L_1	2.47:1
Max. upshift speed — drive range — km/h (mph)		127(79)
Max. kickdown speed-drive range — km/h (mph)		121(75)
Min. overdrive speed — km/h (mph)		--
Torque Converter	Number of elements	Three
	Max. ratio at stall	3.00:1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	260 (10.25)
Lubricant	Capacity — refill — L (pt.)	7.6 (16) Approx. C-3; 6.4 (13.4) Approx. C-4; 6.3 (13.4)
	Type recommended	ESP-M2C138-CJ
Special transmission features		Transmission can be Locked in 1 or 2 Positions, Vacuum Controlled Throttle Valve.

Drive Units — Axle or Front Wheel Drive Unit

Type (front, rear)			Rear
Description			Conventional, Semi-Floating, Overhung Pinion
Limited Slip differential, type			7.5 - Cone Clutch Type
Drive Pinion Offset			6.75:38.1 (1.50); 7.5:25.4 (1.0)
Drive pinion type			
No. of differential pinions			Two and Four: 6.75; Two: 7.5
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other) -			Collapsible Spacer
Driving wheel bearing type			6.75 Single Row, Dbl. Sealed Ball Bearing; 7.5: Straight Roller
Lubricant	Capacity — L (pt.)		6.75:1.8 (2.5) 7.5:1.65 (3.5)
	Type recommended		ESP-M2C154-A
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
		Extreme cold	SAE 90

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

Axle Ratio or Overall Ratio		2.73	3.08:1*	3.45:1*
No. of teeth	Pinion	15	12	11
	Ring gear or gear	41	37	38
Ring Gear O. D. mm (in.)		190.5 (7.5) (a)	190.5 (7.5) (a)	190.5 (7.5)
Transaxle	Transfer Gear Ratio	--		
	Final Drive Ratio	--		

(a) Also available 171.5 (6.75)
* Locker available

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Drive Units — Automatic Transmission

Trade name		Select-Shift (C-4)	
Type (describe)		Torque Converter with Planetary Gears	
Selector	Location	Floor Mounted	
	Ltr./No. Designation	P R N D 2 1	
Gear Ratios	R	2.19:1	
	D	1.00:1	
	L_3	--	
	L_2	1.46:1	
	L_1	2.46:1	
Max. upshift speed — drive range — km/h (mph)		130 (81)	138 (85)
Max. kickdown speed-drive range — km/h (mph)		118 (73)	121 (75)
Min. overdrive speed — km/h (mph)		--	
Torque Converter	Number of elements	Three	
	Max. ratio at stall	2.02:1	2.28:1
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter mm (in.)	260.35 (10.25)	300 (12)
Lubricant	Capacity — refill — L (pt.)	6.8 (14.3)	10.4 (22)
	Type recommended	ESP-M2C138-CJ	ESP-M2C138-CJ
Special transmission features		Transmission can be Locked in 1 or 2 Positions, Vacuum Controlled Throttle Valve	

Drive Units — Axle or Front Wheel Drive Unit

Type (front, rear)		(See Page 16)	
Description			
Limited Slip differential, type			
Drive Pinion Offset			
Drive pinion type			
No. of differential pinions			
Pinion adjustment (shim, other)			
Pinion bearing adj. (shim, other)			
Driving wheel bearing type			
Lubricant	Capacity — L (pt.)		
	Type recommended		
	SAE viscosity number — Summer		
	SAE viscosity number — Winter		
	SAE viscosity number — Extreme cold		

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

Axle Ratio or Overall Ratio		2.26:1	2.73:1*	3.08:1*	2.47:1
No. of teeth	Pinion	19	15	12	15
	Ring gear or gear	43	41	37	37
Ring Gear O. D. mm (in.)		190.5(7.5)	190.5(7.5) (a)	190.5(7.5) (a)	190.5(7.5)
Transaxle	Transfer Gear Ratio	--			
	Final Drive Ratio	--			

(a) Also available w/171.5 (6.75) w/3.3L & SROD (4-Pinion)
* Locker available

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7-81

Engine Description/Carb. / Engine Code	2.3L (140 CID)	2.3L (140 CID) TURBO

Drive Units — Propeller Shaft — Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)			Internal Tuned Damper	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		Not Available	
	Manual 4-speed trans.		76.2 x 1206 x 1.65 (a) (d) (3.00 x 47.49 x 0.065)	76.2 x 1178 x 1.65 (b) (e) (3.00 x 46.38 x 0.065)
	Manual 5-speed trans. – Overdrive		76.2 x 1185 x 1.65 (b) (h) (3.00 x 46.69 x 0.065)	
	Overdrive		N.A.	
	Automatic transmission		76.2 x 1240 x 1.65 (b)(c)(f)(g) (3.00 x 48.85 x 0.065)	
Intermediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting prepack)		None	
Slip Yoke	Type		Plain	
	Number of teeth		M5OD, C-3, HM4WR - 25 C-4, SR4 - 28	
	Spline O.D.		M5OD, C-3, HM4WR-28.321 (1.115) Max. C-4, SR 4-30.998 (1.220) Max.	
Universal joints	Make and Mfg. No.	Front	Ford 1310	
		Rear	Ford 1310	
	Number used		Two	
	Type (ball and trunnion, cross)		Cross	
	Rear attach (u-bolt, clamp, etc.)		12 mm Bolts	
	Bearing: Type (plain, anti-friction)		Needle Roller	
	Bearing: Lubric. (fitting, prepack)		Pre-Pack	
Drive taken through (torque tube or arms, springs)			Control Arms	
Torque taken through (torque tube or arms, springs)			Control Arms	

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

(a) 6-3/4" Axle
(b) 7.5" Axle
(c) C-3 Automatic
(d) HM 4 WR Manual
(e) SR 4 Manual
(f) C-4 Automatic - 76.2 x 1168 x 1.65 (3.00 x 45.99 x 0.065) w/7.5" Axle
(g) C-3 Automatic - 76.2 x 1240 x 1.65 (3.00 x 48.85 x 0.065) w/6-3/4" Axle
(h) M5OD

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Car Line MUSTANG
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Engine Description/Carb. Engine Code	3.3L (200 CID)	4.2L (255 CID)

Drive Units — Propeller Shaft — Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)				Internal Tuned Damper or Cardboard Lined	Cardboard Lined
Outer diam. x length* x wall thickness	Manual 3-speed trans.			N.A.	
	Manual 4-speed trans. Overdrive			69.85 x 1154 x 1.65 (c) (d) (2.75 x 45.44 x 0.065)	N.A.
	Manual 5-speed trans.			N.A.	
	Overdrive			N.A.	
	Automatic transmission			69.85 x 1150 x 1.65 (a)(b)(e)(f) (2.75 x 45.26 x 0.065)	69.85 x 1173 x 1.65 (a)(b) (2.75 x 46.19 x 0.065)
Intermediate bearing	Type (plain, anti-friction)			None	
	Lubrication (fitting prepack)			None	
Slip Yoke	Type			Plain	
	Number of teeth			28 & 25	28
	Spline O.D.			C-4 & 4-Spd. OD:30.988(1.220) Max. C-3:28.321 (1.115) Max.	30.988 (1.220) Max.
Universal joints	Make and Mfg. No.		Front	Ford 1310	
			Rear	Ford 1310	
	Number used			Two	
	Type (ball and trunnion, cross)			Cross	
	Rear attach (u-bolt, clamp, etc.)			12 mm Bolts	
	Bearing	Type (plain, anti-friction)		Needle Roller	
		Lubric. (fitting, prepack)		Pre-Pack	
Drive taken through (torque tube or arms, springs)				Control Arms	
Torque taken through (torque tube or arms, springs)				Control Arms	

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

(a) 7.5" Axle
(b) C-4 Automatic
(c) 6.75" Axle
(d) 69.85 x 1137 x 1.65 (2.75 x 44.75 x 0.065) w/7.5" Axle
(e) C-4 Automatic: 69.85 x 1167 x 1.165 (2.75 x 45.95 x 0.065) w/6.75 Axle
(f) C-3 Automatic: 69.85 x 1210 x 1.165 (2.75 x 47.62 x 0.065) w/6.75 Axle

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•)

Engine Description/Carb. Engine Code	ALL MODELS

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply		P185/80R13 BSW (P175/75R14BSW W/Ghia & 4.2L Engine)
	Type (bias, radial, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front-kPa (psi)	241 (35)
		Rear-kPa (psi)	241 (35)
	Rev./mile—at 70 km/h (45 mph)		(861)
WHEELS	Type & material		Styled Steel - Stamped
	Rim (size & flange type)		330 x 127 (13 x 5.0) JJ (356 x 127 (14x5) JJ)
	Wheel offset		28.45 (1.12)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	108 (4.25)
		Number & size	Four, 1/2-20
Spare tire and wheel (same or other)			356 x 127 (14 x 5) w/B78 x 14 BSW Tire (Temp. use only)

Drive Units — Tires And Wheels (Optional)

Size, load range, ply	P175/75R-14 BSW (WSW)
Type (bias, radial, etc.)	Steel Belt Radial
Wheel type & material	Styled Steel
Rim (size, flange type, and offset)	356 x 127 (14 x 5.5) JJ, 28.45 (1.12) Offset
Size, load range, ply	P185/75R-14 BSW (WSW)
Type (bias, radial, etc.)	Steel Belt Radial
Wheel type & material (a)	Styled Steel or Cast Aluminum
Rim (size, flange type, and offset)	356 x 127 (14 x 5.5) JJ, 28.45 (1.12) Offset
Size, load range, ply	P185/75R (RWL)
Type (bias, radial, etc.)	Steel Belt Radial
Wheel type & material (a)	Styled Steel or Cast Aluminum
Rim (size, flange type, and offset)	356 x 127 (14 x 5.5) JJ, 28.45 (1.12) Offset
Size, load range, ply	190/65R 390 BSW, 28 PSI Front & Rear
Type (bias, radial, etc.)	Steel Belt Radial
Wheel type & material	TRX Forged Aluminum
Rim (size, flange type, and offset)	390 x 150 (15.35 x 5.9), 25.4 (.99) Offset
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel)	

Brakes — Parking

Type of control		Pull Lever -Push Button Release
Location of control		Tunnel Mounted
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

(a) Cast Aluminum: Optional for All 14" Tires; 14 x 5.5 JJ Rim w/28.4 (1.12) Offset.

MVMA Specifications Form
Passenger Car
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Car Line MUSTANG

Model Year 1981 Issued 9-80 Revised (•) _____

Body Type And/Or Engine Displacement

ALL MODELS

Brakes — Service

Brake Type (std., Opt., N.A.)	Drum	Front		N.A.
		Rear		Std.
	Disc	Front		Std.
		Rear		N.A.
Self-adjusting (std., opt., N.A.)				Std.
Special Valving	Type (proportion, delay, metering, other)			Pressure Differential and Proportioning
Power Brake (std., opt., N.A.)				Optional, Mandatory w/2.3L Turbo, 3.3L & 4.2L Engines
Booster Type (remote, integral, vac., hyd., etc.)				220 (8.66) Single Diaphragm - Integral Vacuum
Anti-skid device type (std., opt., N.A.)				N.A.
Effective area — cm^2 ($in.^2$)*				Front - 174.8 (27.1); Rear - 302.6 (46.9)
Gross lining area — cm^2 ($in.^2$)**				Front - 199.5 (30.93); Rear - 331.6 (51.4)
Swept area — cm^2 ($in.^2$)***				Front - 972.9 (150.8); Rear - 638.7 (99.0)
Rotor	Outer working diameter		F	236 (9.31)
			R	N.A.
	Inner working diameter		F	
			R	
	Thickness		F	22.1 (0.870)
			R	N.A.
	Material & type (vented/solid)		F	Cast Iron Vented
			R	N.A.
Drum	Diameter (nominal)	Front		N.A.
		Rear		228.6 (9.0)
	Type and material			Composite Cast Iron Steel; Alum. w/C.I. Liner - Optional
Wheel cylinder bore	Front			59.9 (2.36)
	Rear			19.05 (0.75)
Master Cylinder	Bore			22.2 (0.875)
	Stroke			34.8 (1.37) Manual; 35.6 (1.40) Power
Pedal arc ratio				5.80:1 Manual; 3.50:1 Power
Line pressure at 445 N (100 lb.) pedal load—MPa (psi)				N.A.
Lining Clearance Per Shoe	Front			0.254 (0.010)
	Rear			0.381 (0.015)
Brake lining	Front Wheel	Bonded or riveted, rivets/seg.		Riveted
		Rivet size		9/64
		Manufacturer		Thiokol - 2.3L; Bendix - 2.3L Turbo, 3.3L & 4.2L
		Lining Code		TP-1353MFF; BX-XO-EE
		Material		Molded Asbestos-2.3L;Semi-Metallic-2.3L Turbo,3.3L & 4.2L
		**** Prim. or out-board		154 x 35 x 10 (6.1 x 1.37 x 0.39)
		Size Second or in-board		130 x 37 x 11.5 (5.1 x 1.46 x 0.45)
		Shoe thickness (no lining) mm(in.)		5.1 (0.203)
	Rear Wheel	Bonded or riveted, rivets/seg.		Riveted/Primary 8 - Secondary 10
		Manufacturer		Bendix FMD, Primary 3198, Secondary 3199
		Lining Code		PRI BX RY FE - Sec. BX PM FE
		Material		Molded Asbestos
		**** Prim. or out-board		155 x 44 x 4.7 (6.12 x 1.75 x 0.187)
		Size Second or in-board		219 x 44 x 6.2 (8.63 x 1.75 x 0.245)
		Shoe thickness (no lining)		1.709 (0.0673)

*Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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ALL MODELS

Steering

Manual (std., opt., N.A.)				Std.
Power (std., opt., N.A.)				Optional, Mandatory with 3.3L w/A/C & 4.2L
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt - 5 Positions
		(Std., opt., N.A.)		Optional. Not Available with Manual Steering
Wheel diameter		Manual		381(15in.)w/.25in.Offset;Opt:368mm(14.5in.)w/6.4(.25)Offset
		Power		381(15in.)w/.25in.Offset;Opt:368mm(14.5in.)w/6.4(.25)Offset
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		11.15 (36.6)
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Manual	Gear	Type		Rack and Pinion
		Make		Cam Gear Ltd.
		Ratios	Gear	(N.A. for Rack & Pinion Design)10.66 Deg./mm of rack travel
			Overall	24.93:1 on Center; 21.69:1 at Stops
	No. wheel turns (stop to stop)			4.08
Power	Type (coaxial, linkage, etc.)			Integral
	Make			TRW Gear (Ford Gear Alternate) - Ford Pump (c)
	Gear	Type		Rack and Pinion (Variable Ratio) (c)
		Ratios	Gear	8.58 Deg./mm on Center; 7.91 Deg./mm at Stops
			Overall	20.01:1 on Center; 15.98:1 at Stops
	Pump driven by			Belt off Crankshaft Pulley - Lube M2C-33F(4.2L-Serpentine)
	No. wheel turns (stop to stop)			3.05
Linkage	Type			Rack and Pinion (Rod & Ball Joint Direct Attach. to Gear)
	Location (front or rear of wheels, other)			Front of Wheels
	Drag links (trans. or longit.)			None
	Tie rods (one or two)			2 (Inner Tie Rods Integral with Rack and Pinion Gear)
Steering Axis	Inclination at camber (deg.)			15.68
	Bearings (type)	Upper		Upper Strut Mount
		Lower		Ball Joint
		Thrust		
Steering spindle & joint type				Forged Spindle, with Ball Joint
Wheel Spindle	Diameter	Inner bearing		1.3767 I.D.
		Outer bearing		0.8647 I.D.
	Thread size			13/16-20 UNEF (2A R.H. Thd.)
	Bearing type			Tapered Roller
Wheel Align at curb mass (wt.)	Service checking	Caster (deg.)		+0.25° to +1.75° (a)
		Camber (deg.)		-0.5° to +1° (a)
		Toe-in [outside track-mm (in.)]		+5 (0.18) + 3 (0.12) (b)
	Service reset	Caster	Same as	+1° +0.75° (a)
		Camber	Service	+0.25° + 0.75° (a)
		Toe-in	Checking	+5 (0.18) + 3 (0.12) (b)
	Periodic M.V. Inspection	Caster		-1° to +3°
		Camber		-1.25° to +1.75°
		Toe-in	mm (in.)	-1.5 (0.06) to +17 (0.65)

(a) Max. side-to-side difference not to exceed 0.75°.

(b) Steering Wheel Spokes (clear vision) must be within +10° of horizontal after toe setting.

(c) Lubrication - Use ESW-M2C33F Fluid (Texomatic 1865 Fluid 6991) Hydraulic portion and M1C-119A for the Mechanical portion.

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Body Type And/Or Engine Displacement
ALL MODELS

Suspension — General

Car leveling	Standard/Optional/NA	None
	Type (air, hyd., etc.)	–
	Manual/auto. controlled	–
Provision for brake dip control		Spring Mounted on Lower Control Arm
Provision for acc. squat control		Unequal Length Upper/Lower Control Arms (Rear Susp.)
Special provisions for car jacking		Side of Car - Outside Rocker Panel Flanges, Front & Rear
Shock absorber front & rear	Type	Direct Dbl. Acting Hydraulic (Struts) Frt.-Unique Valving Frt.
	Make	Motorcraft & Rear
	Piston dia.	Front: 34.8 (1.37); Rear 25.4 (1.0)
Other special features		Scissors Jack & Wrench

Suspension — Front

Type and description		Hybrid MacPherson Strut w/Springs Mounted on Lower Control(d)
Travel	Full Jounce	93.0 (3.67) at Wheel
	Full Rebound	85.0 (3.34) at Wheel
Spring	Type (coil, leaf, other)	Coil
	Material	SAE 5160 Steel
	Size (coil design height & I.D., bar length x dia.)	254 x 89.0 (10.0 x 3.50)(Coil); 2962 (116.6) (Bar Length); 15.6 (0.614) (Bar Dia.)
	Spring rate — N/mm (lb./in.)	64.8 (370) Std. & Handling; 69.1 (395) TRX
	Rate at wheel — N/mm (lb./in.)	20.14 (115) Std. & Handling; 21.01 (120) TRX
Stabilizer	Type (link, linkless, frameless)	Link; Rubber Side Rail Insulator
	Material & bar diameter	SAE 1090-23.9(.94)-Std., 25.4(1.00)-H.D.,28.5(1.12)-TRX

Suspension — Rear

Type and description			Four Bar Link Coil Spring
Drive and torque taken through			Upper & Lower Control Arm
Travel	Full Jounce		86.61 (3.41)
	Full Rebound		115.32 (4.54)
Spring	Type (coil, leaf, other)		Coil
	Material		SAE 5160-H Steel
	Size (length x width, coil design height & I.D., bar length & dia.)		220.7 x 102 (8.69 x 4.02) 2732 x 13.0 (107.6 x 0.512)
	Spring rate — N/mm (lb./in.)		28 (160) (a); 30.6 (175) (b)
	Rate at wheel — N/mm (lb./in.)		13.5 (77.2); 14.8 (84.4)
	Mounting insulation type		Rubber - (Upper End Only)
	If leaf	No. of leaves	–
		Shackle (comp. or tens.)	–
Stabilizer	Type (link, linkless, frameless)		Linkless
	Material & bar diameter		SAE 1090 Steel; 12.7 (.50)(c) 14.2 (.56) TRX - 2.3L Turbo
Track bar type			None

(a) All Std. Susp.; Handling-2.3 Turbo, 3.3L & 4.2L TRX-2.3L & 2.3L Turbo.
(b) Handling - 2.3L; TRX-3.3L & 4.2L
(c) Handling - 2.3L Turbo, 3.3L & 4.2L; TRX - 2.3L, 3.3L & 4.2L
(d) Arm

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Body Type
ALL MODELS

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		Enamel (Acrylic)
Hood hinge location (front, rear)		Rear
Hood counterbalance (type)		No (Prop Rod)
Hood release control (internal, external)		Primary: Internal; Secondary: External
Vehicle Ident. No. Location		Cowl Top Panel
Vent window control method (crank, friction pivot, power)	Front	None
	Rear	None
Bucket Seat cushion type	Front	Stamped Frame - Added Wire Spring Elements - Foam Pad
	Rear	Integral Frame and Foam Pad Assy.
	3rd Seat	None
Seat back type	Front	Stamped Frame - Foam Pad
	Rear	Frame Hardboard with Foam Pad Assy. (a)
	3rd Seat	None
Method of holding luggage compart. lid open		Torsion Bars (Model 66); Gas Cylinders (Model 61)
Position of spare tire storage		Flat in Storage Well

Passive Restraint System

Inflatable Restraint System	Standard/ Optional	
	Type of charging system	
	Location (stg. whl., instru. panel, other)	
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)	Platform Type Unitized Construction (Isolation Type, Front Suspension Cross-Member)

(a) Fold-down Type Standard on Model 61.

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Body Type
ALL MODELS

Convenience Equipment

Power windows	Side Windows	Optional
	Vent Windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		Optional
Radios (specify type as well as availability)		AM - Std. - Opt. - AM/FM Monl; AM/FM MPX; AM/FM/MPX Tape, AM/FM/MPX Cassette, Prem. Sound Pkg. w/any MPX Ratio
Rear seat speaker		Std. with all Stereo radio Options (Two Req'd); Opt. w/AM or
Power antenna		N.A. AM/FM*
Clock		Digital Electronic (Optional)
Air Conditioner (specify type)		Opt.; Integral on Inst. Panel (Multiple Outlets), Manual Control
Speed warning device		N.A.
Speed control device		Optional
Ignition lock lamp		N.A.
Dome lamp		Std.
Glove compartment lamp		Opt.
Luggage compartment lamp		Opt.
Underhood lamp		Opt.
Courtesy lamp		N.A.
Map lamp		Opt. Dome/Swivel (Deleted w/Sunroof Opt.; Incl. w/Opt. Lt. Grp.)
Cornering lamp		N.A.
Rear window defroster electrically heated		Optional (Required in New York State)
Rear window defogger		N.A.
Theft protection — type		N.A.
Power Door Locks		Optional
Sunroof (Flip-Up)		Optional
Inertia Seat Back Latch		N.A. High Back Bucket Seats; Std. on Low Back, RPO Bucket Seats
Tinted Glass		Opt.
Graphic Display		Opt.

*Mono Radios (Two Req'd)

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* with 15.4 gallon fuel tank

Vehicle Mass (Weight)

Model *	CURB MASS, kg. (Weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (Weight lb)**
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
2-Door 66B	680 (1500)	522 (1152)	1202 (2652)	4.5% (68)	7.1% (82)	1.8% (28)	10.5% (122)	1150 (2536)
2-Door Ghia 66H	688 (1517)	529 (1167)	1217 (2684)	4.4%	7.0%	1.8%	10.4%	1165 (2568)
3-Door 61R	681 (1502)	539 (1190)	1220 (2692)	4.5%	6.8%	1.8%	10.2%	1168 (2576)
3-Door Ghia 61H	688 (1516)	546 (1204)	1234 (2720)	4.4%	6.8%	1.8%	10.1%	1181 (2604)

*ABOVE CURB WEIGHTS REFLECT VEHICLE WITH 2.3L STD. ENGINE AND OPTIONAL C-3 AUTOMATIC TRANSMISSION.

*Reference — SAE J1100a, Motor Vehicle Dimensions, Curb Weight Definition.

**Shipping Mass (Weight) definition — Less fuel and engine coolant

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Optional Equipment Differential Mass (Weight)*

Equipment	MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
2.3L-2V-Manual Trans M4WR	-2.7	0.5	-2.3	Under 2.3L-2V, Auto. Trans.
	(-6)	(1)	(-5)	
2.3L-2V (Turbo) Man. Trans	21.3	2.3	23.6	Over 2.3L-2V, Auto. Trans.
	(47)	(5)	(52)	
2.3L-2V-Man. Trans. M50D	-2.7	0.9	-1.8	Under 2.3L-2V, Auto. Trans.
	(-6)	(2)	(-4)	
3.3L-1V-Man. Trans. SR4	8.1	-8.6	-0.5	Over 2.3L-2V, Auto. Trans.
	(18)	(-19)	(-1)	
3.3L-1V-Auto. Trans. C4I2	30.8	0.5	31.3	Over 2.3L-2V, Auto. Trans.
	(68)	(1)	(69)	
4.2L-2V-Auto. Trans.	79.8	-2.3	77.5	Over 2.3L-2V, Auto. Trans.
	(176)	(-5)	(171)	
Air Conditioning	34.5	-2.7	31.8	2.3L Engine w/Man; w/Auto; 35.4 (78)/-2.7
	(76)	(-6)	(70)	(-6)/32.7 (72)
	33.6	-2.7	30.9	2.3L Turbo Engine
	(74)	(-6)	(68)	
	34.9	-3.6	31.3	3.3L Engine w/Man; w/Auto: 34.5 (76)/
				-3.6 (-8)/ 30.9 (68)
	25.8	-2.7	23.1	4.2L Engine
	(57)	(-6)	(51)	
Power Steering	7.3	0	7.3	2.3L Engine
	(16)	(0)	(16)	
	7.3	0	7.3	2.3L Turbo Engine
	(16)	(0)	(16)	
	8.6	0	8.6	3.3L Engine
	(19)	(0)	(19)	
	8.2	0	8.2	4.2L Engine
	(18)	(0)	(18)	
Power Brakes	2.7	0	2.7	
	(6)	(0)	(6)	
Radio - AM	0	0	0	Std.
	(0)	(0)	(0)	
- AM/FM Monaural	0	0	0	
	(0)	(0)	(0)	
- AM/FM Multiplex	0.9	1.4	2.3	
	(2)	(3)	(5)	
- AM/FM/MPX Tape	2.3	1.3	3.6	
	(5)	(3)	(8)	
- AM/FM/MPX	1.4	1.8	3.2	
Cassette Tape	(3)	(4)	(7)	
Premium Sound System	0.5	1.8	2.3	Req. AM/FM Multiplex or AM/FM/MPX Tape
	(1)	(4)	(5)	or AM/FM/MPX Cassette Tape
Elec. Rear Window Defrost	0	.4	.4	2.3L Engine
	(0)	(1)	(1)	

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

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Optional Equipment Differential Mass (Weight)*

Equipment	MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
Sun Roof	2.7 (6)	6.3 (14)	9.0 (20)	
Rear Window Washer/Wiper	-0.4 (-1)	4.5 (10)	4.1 (9)	N.A. w/2-Door Models
Alum. Spoke Wheels	-2.7 (-6)	-2.7 (-6)	-5.4 (-12)	Under Ghia Models; 2-Door & 3-Door -0.9 (-2)/-0.9 (-2)/-1.8 (-4)
Alum. Sim. Spoke Wheels	-4.1 (-9)	-3.6 (-8)	-7.7 (-17)	Under Ghia Models; 2-Door & 3-Door -2.3 (-5)/-1.8 (-4)/-4.1 (-9)
Wire Wheel Covers	1.4 (3)	1.8 (4)	3.2 (7)	Over Ghia Model; 2-Dr. & 3-Dr. 2.3 (5)/2.7 (6)/5.0 (11)
Tires: (Typical)				
P175/75R 14BSW	0 (0)	0 (0)	0 (0)	Std.
P175/75R 14WSW	0 (0)	0 (0)	0 (0)	
P185/75R 14BSW	1.3 (3)	1.4 (3)	2.7 (6)	
P185/75R 14WSW	1.4 (3)	1.8 (4)	3.2 (7)	
P185/75R 14RWL	1.4 (3)	1.8 (4)	3.2 (7)	
P190/65R/390BSW	3.6 (8)	4.1 (9)	7.7 (17)	
Cobra Option	5.4 (12)	8.6 (19)	14.0 (31)	3-Door Only; N.A. w/Ghia 3-Door;
Handling Suspension	2.3 (5)	0.9 (2)	3.2 (7)	Other powertrains except 2.3L: 2.3 (5)/3.1 (7)/5.4 (12)
Speed Control	2.3 (5)	0.4 (1)	2.7 (6)	Does not include Strg. Wheel, BEPE Wiring, Dump Valve Brkt.
T-Roof	7.7 (17)	9.1 (20)	16.8 (37)	

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

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Car and Body Dimensions See Key Sheets for definitions

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

	SAE Ref. No.	Body Type: 2-Door Models 66B and 66H	Body Type: 3-Door Models 61R and 61H
Width			
Tread — Front	W101	1438 (56.6)	
Tread — Rear	W102	1448 (57.0)	
Vehicle width	W103	1754 (69.1)	
Body width at Sg RP — front	W117	1712 (67.4)	
Vehicle width — front doors open	W120		
Vehicle width — rear doors open	W121		
Length			
Wheelbase	L101	2550 (100.4)	
Vehicle length	L103	4549 (179.1)	
Overhang — front	L104	1003 (39.5)	
Overhang — rear	L105	995 (39.2)	
Upper structure length	L123	2403 (94.6)	2494 (98.2)
Rear wheel C/L "X" coordinate	L127	4194 (86.4)	
Cowl point "X" coordinate	L125	2145 (5.7)	
Height*			
Passenger Distribution (frt./rear)	PD1,2,3	2/2	
Trunk/Cargo load			
Vehicle height	H101	1306 (51.4)	
Cowl point to ground	H114	937 (36.9)	
Deck point to ground	H138	874 (34.5)	892 (35.1)
Rocker panel front to ground	H112		
Bottom of door closed-front to grd.	H133		
Rocker panel rear to ground	H111		
Bottom of door closed-rear to grd.	H135		
Ground Clearance*			
Front bumper to ground *	H102	522 (20.54) *Measured from top of parking lamp to ground	
Rear bumper to ground	H104	335 (13.17)	
Bumper to ground — front at curb mass (wt.) *	H103	527 (20.75) *Measured from top of parking lamp to ground	
Bumper to ground — rear at curb mass (wt.)	H105	390 (15.36)	
Angle of approach	H106	18.5°	18.5°
Angle of departure	H107	18.7°	
Ramp breakover angle	H147	10.6°	
Rear axle differential to ground	H153	157.0 (6.18)	
Min. running ground clearance	H156	Front: 146 (5.78); Rear: 144.0 (5.67)	
Location of min. run. grd. clear.		Front: Steering Gear Mtg. C'Member; Rear: Shock Brkt.	

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

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

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Car and Body Dimensions See Key Sheets for definitions

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Body Type

SAE Ref. No.		2-Door Models 66B and 66H		3-Door Models 61R and 61H	
Front Compartment					
Sg RP front, "X" coordinate	L31	3034	(40.7)		
Effective head room	H61	944	(37.2)		
Effective T Point head room	H75				
Max. eff. leg room — accelerator	L34	1059	(41.7)		
Sg RP — front to heel	H30	224	(8.8)		
Design H-point front travel	L17	155	(6.1)		
Shoulder room	W3	1417	(55.8)		
Hip room	W5	1425	(56.1)		
Upper body opening to ground	H50	1187	(46.7)		
Steering Wheel Angle	H18	23.0°			
Back Angle	L40	25.0°			
Rear Compartment					
Sg RP Point couple distance	L50	701	(27.6)		
Effective head room	H63	912	(35.9)	902	(35.5)
Effective T Point head room	H76				
Min. effective leg room	L51	792	(31.2)		
Sg RP — second to heel	H31	256	(10.1)		
Knee clearance	L48	-30	(-1.2)		
Compartment room	L3	N.A.			
Shoulder room	W4	1387	(54.6)		
Hip room	W6	1197	(47.1)		
Upper body opening to ground	H51	N.A.			
Luggage Compartment					
Usable luggage capacity — L(cu. ft.)	V1	283.2	(10.0)	N.A.	
Liftover height	H195	746	(29.4)		

All linear dimensions are in millimeters (inches).

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Car and Body Dimensions See Key Sheets for definitions

Car Line MUSTANG

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Body Type

SAE Ref. No.	3-Door Models (61R and 61H)

Station Wagon — Third Seat

Shoulder room	W85	
Hip room	W86	N
Effective leg room	L86	O
Effective head room	H86	T
Effective T Point head room	H89	
Seat facing direction	SD1	

Station Wagon — Cargo Space

Cargo length — open — front	L200	
Cargo length — open — second	L201	A
Cargo length — closed — front	L202	P
Cargo length — closed — second	L203	P
Cargo length at belt — front	L204	L
Cargo length at belt — second	L205	I
Cargo width — wheelhouse	W201	C
Rear opening width at floor	W203	A
Opening width at belt	W204	B
Max. rear opening width above belt	W205	L
Cargo height	H201	E
Rear opening height	H202	
Tail gate 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	

Hatchback — Cargo Space

Front seat back to load floor height	H197	521	(20.5)
Cargo length at front seat Back Height	L208	928	(36.6)
Cargo length at floor — front	L209	1684	(66.3)
Cargo volume index — m^3 ($ft.^3$)	V3	0.94	(33.3)
Hidden cargo volume — m^3 ($ft.^3$)	V4		

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

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Car and Body Dimensions See Key Sheets for definitions

Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•)

Body Type

ALL MODELS

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
1 & 2 Front	The Rear vertical edge of the master control notch on the upper side of the front door rocker panels locates the "x" coordinate relative to body grid. X - 444.50 (17.50) Y = N.A. Z = N.A.
3 & 4 Rear	The intersection of the lower and inboard surfaces (outside of metal) of the rocker panel door rabbet locates the "y" and "z" coordinates relative to body grid at particular fore-aft inch lines. The fore-aft location can be determined by using the reference dimension from Fiducial Mark 1 & 2.

Fiducial Mark Number			
3 & 4 Front	W21	737.11	(29.02)
	L54	444.50	(17.50)
	H81	-27.94	(-1.10)
	H161		
	H163		
Rear	W22	-737.11	(29.02)
	L55	1295.40	(51.00)
	H82	-35.81	(-1.41)
	H162		
	H164		

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

N.A. = Not Applicable

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Car Line MUSTANG
Model Year 1981 Issued 9-80 Revised (•) 7/81

	SAE Ref. No.	Body Type: 2-Door Models 66B	66H	3-Door Models 61R	61H
Glass					
Backlight slope angle	H121		57.3°	62.3°	
Windshield slope angle	H122		58.0°		
Tumble-Home	W122		24.9°		
Windshield glass exposed surface area — cm^2 ($in.^2$)	S1	8114.0	(1257.6)		
Side glass exposed surface area — cm^2 ($in.^2$)	S2	8312.7	(1288.4)	8101.1	(1255.6)
Backlight glass exposed surface area — cm^2 ($in.^2$)	S3	8582.4	(1330.2)	8568.9	(1328.1
Total glass exposed surface area — cm^2 ($in.^2$)	S4	25009.2	(3876.2)	24784.1	(3841.3)
Windshield glass type		Laminated			
Side glass type		Tempered			
Backlight glass type		Tempered			
Lamps and Headlamp Shape*					
Height above ground to center of bulb or marker — Headlamp (H127)	Highest**	655.8	(25.82)		
	Lowest	-	-		
Tail (H128)	Highest	691.4	(27.22)		
	Lowest	691.4	(27.22)		
Sidemarker	Front	698.0	(27.48)		
	Rear	691.4	(27.22)		
Distance from C/L of car to center of bulb — Headlamp	Inside	435.4	(17.14)		
	Outside**	620.8	(24.44)		
Tail	Inside	573.28	(22.57)		
	Outside	702.0	(28.04)		
Directional	Front	620.77	(24.44)		
	Rear	702.0	(28.04)		
Headlamp Shape		Rectangular - Dual			

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

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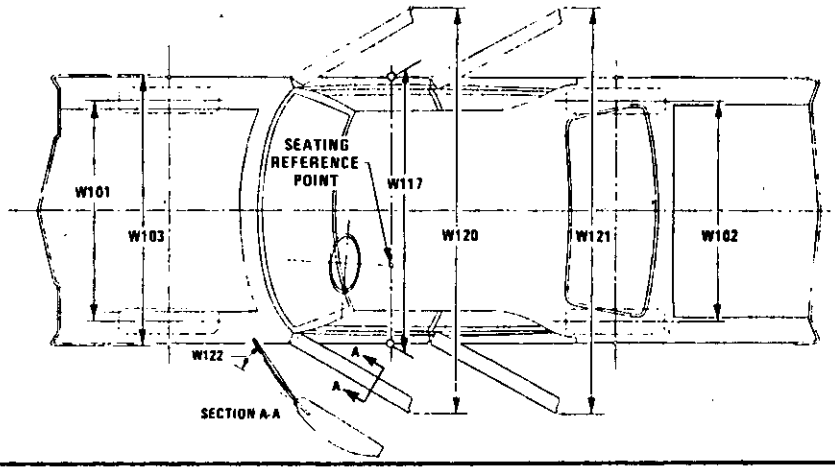
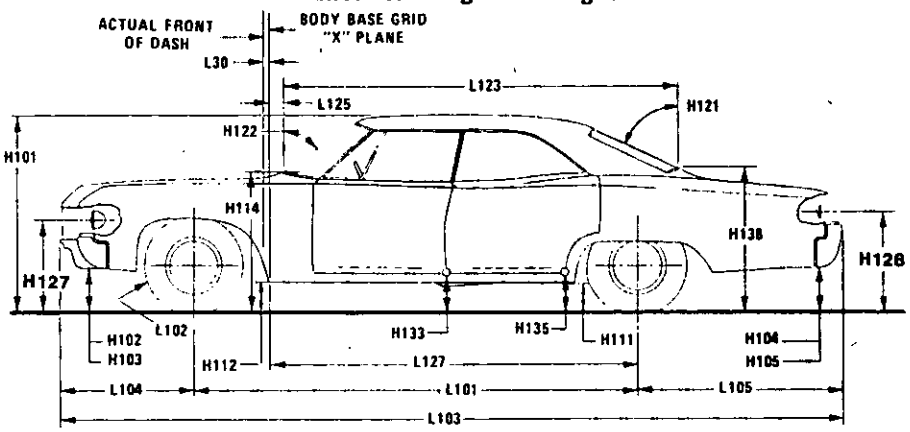
Exterior Car And Body Dimensions — Key Sheet

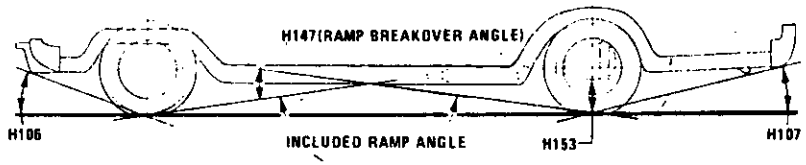
Exterior Width



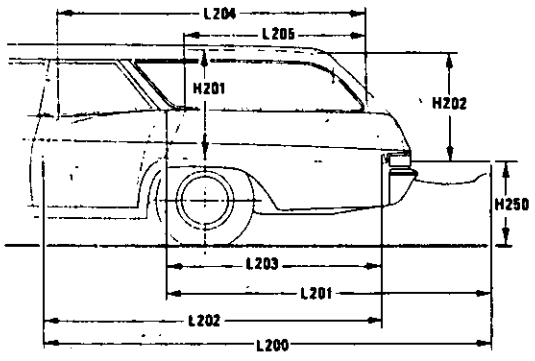
Exterior Length & Height



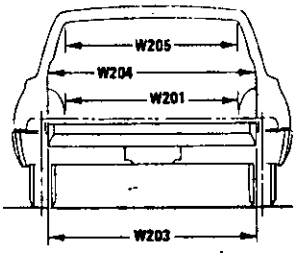
Exterior Ground Clearance

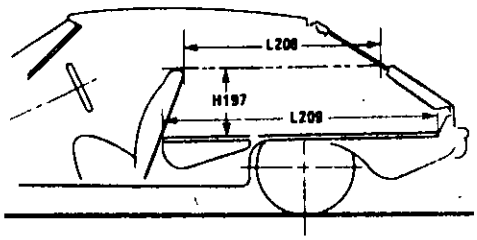


Cargo Space



Station Wagon





Hatchback

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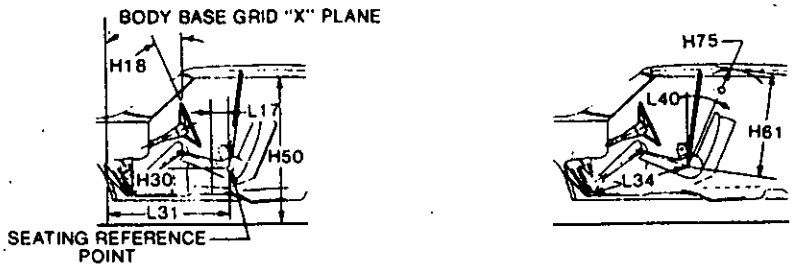
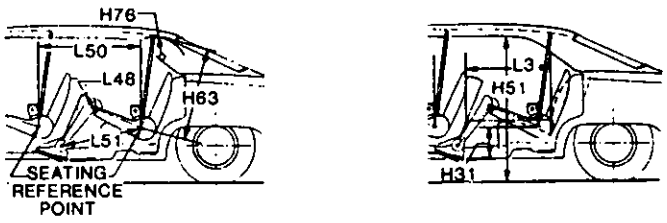
Interior Car And Body Dimensions — Key Sheet

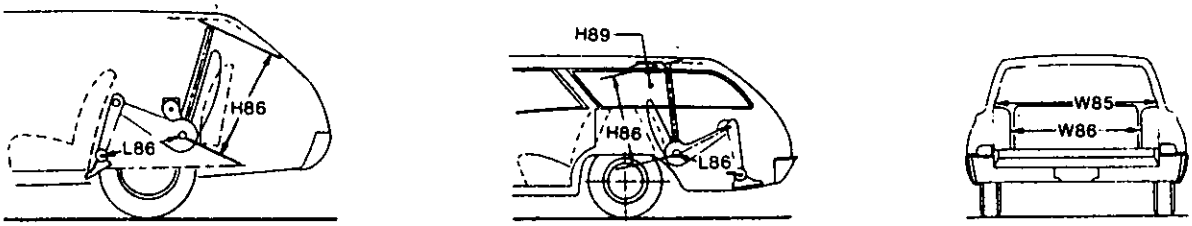
Front Compartment



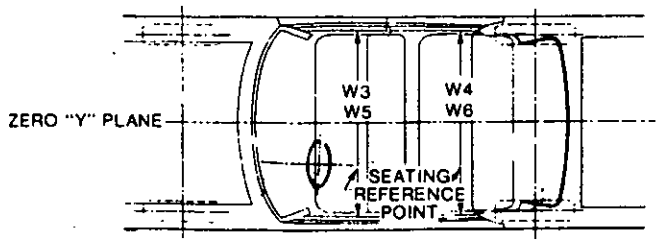
Rear Compartment



Third Seat



Interior Width



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Exterior Car And Body Dimensions — Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which —
(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design vehicle structure;
(c) Simulates the position of the pivot center of the human torso and thigh; and
(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD — FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD — REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP — FRONT. The dimension measured laterally between the widest points on the body at the SgRP - front, excluding door handles, applied moldings, or appliques.

W120 VEHICLE WIDTH — FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH — REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

L30 FRONT OF DASH "X" COORDINATE. A minus (−) dimension indicates actual front of dash is forward of the zero "X" plane.

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L102 TIRE SIZE. As specified by the manufacturer.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, two hooks and/or rub strips, if standard equipment.

L104 OVERHAND — FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, two hooks and/or rub strips, if standard equipment.

L105 OVERHAND — REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, two hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

H112 ROCKER PANEL — FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H132 BOTTOM OF DOOR OPEN — FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

H111 ROCKER PANEL — REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H134 BOTTOM OF DOOR OPEN — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

H135 BOTTOM OF DOOR CLOSED — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 18.0 in. (457 mm) long, drawn from the lower DLO to the intersecting point on the windshield.

H127 HEADLAMP TO GROUND — CURB WEIGHT. The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND — CURB WEIGHT. The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

H103 FRONT BUMPER TO GROUND - CURB WEIGHT. Measured in the same manner as H104.

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

H105 REAR BUMPER TO GROUND — CURB WEIGHT. Measured in the same manner as H104.

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

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H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference reaward of the rear tire to ground: The limiting component shall be designated.

H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION — FRONT.

L31 SgRP — FRONT "X" COORDINATED.

H61 EFFECTIVE HEAD ROOM — FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP — front to the headline, plus 4.0 in. (102 mm).

H75 EFFECTIVE T-POINT HEAD ROOM — FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).

L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP — front plus 10.0 in. (254 mm) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

H30 SgRP — FRONT TO HEEL. The dimension measured vertically from the SgRP — front to the accelerator heel point.

L17 DESIGN H-POINT — FRONT TRAVEL. The dimension measured horizontally between the design H-point — front in the foremost and rearmost seat trace positions

W3 SHOULDER ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP — front within the belt line and 10.0 in. (254 mm) above the SgRP — front.

W5 HIP ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP — front within 1.0 in. (25mm) below and 3.0 (76 mm) above the SgRP — front and 3.0 (76 mm) fore and aft of the SgRP — front.

H150 UPPER BODY OPENING TO GROUND — FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP — front "X" plane.

H18 STEERING WHEEL ANGLE. 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 SgRP — front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION — SECOND.

L50 SgRP COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP — front to the SgRP — second.

H63 EFFECTIVE HEAD ROOM — SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 4.0 in. (102 mm).

H76 EFFECTIVE T-POINT HEAD ROOM — SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM — SECOND. The dimension measured along a line from the ankle pivot center to the SgRP — second plus 10.0 in. (254 mm).

H31 SgRP — SECOND TO HEEL. The dimension measured vertically from the SgRP — second to the two dimensional device heel point on the depressed floor covering.

L48 KNEE CLEARANCE — SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 2.0 in. (51 mm).

L3 COMPARTMENT ROOM — SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM — SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP — second within 10.0-16.0 in. (254-406 mm) above the SgRP — second.

W6 HIP ROOM — SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND — SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 13.0 in. (330 mm) forward of the SgRP — second.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY — Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Station Wagon — Third Seat Dimensions

PD3 PASSENGER DIRECTION — THIRD

W85 SHOULDER ROOM — THIRD. Measured in the same manner as W5.

W86 HIP ROOM — THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM — THIRD. The dimension measured along a line from the ankle pivot center to the SgRP — third plus 10.0 in. (254 mm).

H86 EFFECTIVE HEAD ROOM — THIRD. The dimension, measured along a line 8 deg. from the SgRP — third to the headlining rear of vertical plus a constant of 4.0 in. (102 mm).

H89 EFFECTIVE T-POINT HEAD ROOM — THIRD. Measured in the same manner as H75.

Station Wagon — Cargo Space Dimensions

L200 CARGO LENGTH — OPEN — FRONT. The minimum dimension measured logitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L201 CARGO LENGTH — OPEN — SECOND. The dimension measured logitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH — CLOSED — FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

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L 203 CARGO LENGTH — CLOSED — SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L 204 CARGO LENGTH AT BELT — FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.

L 205 CARGO LENGTH AT BELT — SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W 201 CARGO WIDTH — WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

W 203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W 204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.

W 205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

H 201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.

H 202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

H 250 TAILGATE TO GROUND (CURB WEIGHT). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V 2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = Ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{ (cubic meter)}$$

V 4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

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

H 197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L 208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L 209 CARGO LENGTH AT FLOOR — FRONT — HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

V 3 HATCHBACK.

Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = Ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{ (cubic meter)}$$

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