

AMA Specifications—Passenger Car

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MANUFACTURER FORD MOTOR COMPANY	CAR NAME COUGAR	
MAILING ADDRESS P.O. Box 2053 — Dearborn, Mich. 48121	MODEL YEAR 1970	ISSUED: September, 1969
		REVISED (•) Jan. 1970

NOTES:

1. The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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BODY — TYPES AND STYLE NAMES —

Body type, style names; use manufacturer's code for series & body style.

BODY MODEL

MODEL NUMBER

Cougar

2-Door Hardtop	65A
2-Door Convertible	76A

Cougar XR-7

2-Door Hardtop	65B
2-Door Convertible	76B

Cougar Eliminator

2-Door Hardtop (Derivative of Model 65)

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MAKE OF CAR COUGAR MODEL YEAR 1970 DATE ISSUED 9/69 REVISED (*)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

MODEL	SAE Ref. No.	65 A-B	76 A-B
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WIDTH

Track - Front	W101	58.5	
Track - Rear	W102	58.5	
Maximum overall car width	W103	74.1	
Body width at No. 2 pillar	W117	71.7	

LENGTH

Body "O" to front of dash	L 30	-1.3	
Wheelbase	L101	111.1	
Overall car length	L103	196.1	
Overhang - front	L104	38.9	
Overhang - rear	L105	46.1	
Body upper structure length	L123	93.5	85.8
Body "O" line to C of rear wheel	L127	91.6	
Body "O" line to w/s cowl point	L130	10.4	

HEIGHT

Passenger Distribution (front & rear)		2-1	
Trunk/Cargo load (lbs.)		-	
Overall height	H101	51.5	
Cowl height	H114	36.3	
Deck height	H138	35.6	36.5
Rocker panel - front	To ground	H112	8.7
	From front wheel C		
Rocker panel - rear	To ground	H111	7.6
	From rear wheel C		
Windshield slope angle	H122	52.5 ^o	

GROUND CLEARANCE

Bumper to ground - front	H102	17.0	
Bumper to ground - rear	H104	10.2	
Angle of approach	H106	24.6 ^o	
Angle of departure	H107	15 ^o	
Ramp breakover angle	H147	12 ^o	
Min. running clearance (Specify)	H156	4.85 (a)	

(a) Exhaust System

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	65A	65B	76A-B
FRONT COMPARTMENT				
Effective head room	H61	37.6		38.2
Max. eff. leg room - accelerator	L34	40.1		40.5
H Point to Heel point	H30	7.8		
H Point travel	L17	4.9		
Shoulder room	W 3	55.9		
Hip room	W 5	55.2		
Upper body opening to ground	H50	46.4		46.3
REAR COMPARTMENT				
H Point couple distance	L50	29.2	27.0	
Effective head room	H63	35.9		
Min. effective leg room	L51	30.6	28.0	
H Point to Heel point	H31	10.0		
Min. knee room	L48	-0.9	-2.7	
Rear Compartment room	L 3	23.3	21.3	
Shoulder room	W 4	54.5		43.2
Hip room	W 6	52.4		43.6
Upper body opening to ground	H51	-		-
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1	10.1		8.9
Liftover height	H195	27.2		
Position of spare tire storage		Flat - Right Side of Trunk		
Method of holding lid open		Torsion Bar		
STATION WAGON - THIRD SEAT				
Shoulder Room	W85	-		
Hip room	W86	-		
Effective leg room	L86	-		
Effective head room	H86	-		
Seat facing direction		-		
STATION WAGON - CARGO SPACE				
Cargo length at floor - front seat	L202	-		
Cargo length at belt - front seat	L204	-		
Cargo width - Wheelhouse	W201	-		
Opening width at belt	W204	-		
Maximum cargo height	H201	-		
Rear opening height	H202	-		
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	-		

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE (b)					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A C ratio)		
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		Std.	Opt.	Lock.
All Except Eliminator	351 (C)(W)	2V	9.5	250@ 4600	355@ 2600	Manual 3-Speed	2.75	3.00 3.25	3.00 3.25
						Manual 4-Speed	3.00	3.25	3.00 3.25
						Automatic	2.75	3.00 3.25	3.00 3.25
All Except Eliminator	(C)351	4V	11.0	300@ 5400	380@ 3400	Manual 3-Speed	3.25	3.00	3.25 3.00
						Manual 4-Speed	3.25	3.00	3.25 3.00
						Automatic	3.00	3.25	3.00 3.25 3.50 (a)
Eliminator	(C)351	4V	11.0	300@ 5400	380@ 3400	Manual 3-Speed	3.25	3.00	3.25 3.00
						Manual 4-Speed	3.25	3.00	3.25 3.00
						Automatic	3.25	3.00	3.25 3.00 3.50 (a)
All	428 Cobra	4V Jet	10.6	355@ 5200	440@ 3400	Manual 4-Speed	3.25 (a)	3.50(a)	3.25 (a) 3.50 (a) 3.91 (a) 4.30 (a)
						Automatic	3.25 (a)	3.50(a)	3.25 (a) 3.50 (a) 3.91 (a) 4.30 (a)

(a) "Daytona" Type

(b) Maximum Compression Ratio

(W) Windsor

(C) Cleveland

Note: A/C Axle Ratio 3.00:1 except for 428-4V Engines.
A/C Axle Ratio 3.25:1 for 428-4V Engines.
3.91 and 4.30 Axle Ratio available only with Drag
Pack Option.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE (b)					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)		
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		Std.	Opt.	Lock.
All	428 Cobra Ram	4V Jet Air	10.6	335@ 5200	440@ 3400	Manual 4-Speed	3.50(a)	3.25(a)	3.50(a) 3.25(a) 3.91(a) 4.30(a)
						Automatic	3.50(a)	3.25(a)	3.50(a) 3.25(a) 3.91(a) 4.30(a)

- (a) "Daytona" Type
- (b) Maximum Compression Ratio
- (c) Cleveland
- (w) Windsor

Note: A/C Axle Ratio 3.25:1 (428-4V Engines) unless otherwise specified. 3.91 and 4.30 Axle Ratio available only with Drag Pack Option.

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MODEL CID 351-2V(W) 351-2V-4V (C) 428-4V CJ

ENGINE – GENERAL

Type, no. cyls., valve arr.	90° V, 8 Cyl. OHV		
Bore and stroke (nominal)	4.002 x 3.50		4.132 x 3.984
Piston displacement, cu. in.	351		428
Bore spacing (℄ to ℄)	4.38		4.63
No. system (front to rear)	L. Bank	5-6-7-8	
	R. Bank	1-2-3-4	
Firing order	1-5-4-2-6-3-7-8	1-3-7-2-6-5-4-8	1-5-4-2-6-3-7-8
Compres. ratio (nominal)	9.5:1	9.5:1-2V 11.0:1-4V	10.6:1
Cylinder Head Material	Cast Iron		
Cylinder Block Material	Cast Iron		
Cyl. Sleeve-Wet,dry,none	None		
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle	4°7'		4°40'
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	51.2	54.58
Publishing max. bhp* @ eng. RPM	250@ 4600	250@ 4600-2V 300@ 5400-4V	335@ 5200
Publishing max. torque* (lb. ft. @ RPM)	355@ 2600	355@ 2600-2V 380@ 3400-4V	440@ 3400
Recommended fuel regular - premium	Regular	Regular-2V Premium-4V	

ENGINE – PISTONS

Material	Aluminum Alloy with Steel Struts		
Description and finish	Autothermic, Slipper Skirt, Cam Ground, and Tin Plated.		
Weight (piston only) oz.	22.86	21.51	25.11
Clearance (limits)	Top land	.0304-.0408	.0240-.0316
	Skirt	Top	.0018-.0026
		Bottom	-
Ring groove depth	No. 1 ring	.202-.209	.199-.214
	No. 2 ring	.202-.209	.199-.214
	No. 3 ring	.184-.191	.187-.202
	No. 4 ring	-	-

* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) At Centerline and 90° to Axis of Pin Hole.

(C) Cleveland

(W) Windsor

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MODEL CID 351-2V (W) 351-2V-4V (C) 428-4V CJ

ENGINE – RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil Control
	No. 4, oil or comp.	None
Compression	Description - #1 material, coating, #1 etc.	Cast Iron Alloy, Barrel Face, Molybdenum Filled Groove. (428) Cast Iron Alloy, Straight Face, Chrome Plated.
	#2	Cast Iron Alloy, Tapered Face, Scraper Groove, Phosphate Coated (a)
	Width	#1 and #2 (.077-.078)
	Gap	.010-.020
Oil	Description - material, coating, etc.	Multi-Piece: Two Rails and One Spacer-Expander Rails: Steel (SAE - 1070) Chrome Plated and Black Oxide Coated Spacer-Expander: Rustless Steel SAE-(30201) (b)
	Width	.1845 .188
	Gap	.015-.055 Rails Only.
	Expanders	Part of Oil Ring Assembly.

ENGINE – PISTON PINS

Material	Steel (SAE-5015) (SAE-1016 Optional)		
Length	3.040-3.010 3.170		
Diameter	.9124-.9118 .9754-.9749		
Type	Locked in rod, in piston, floating, etc.	Press Fit in Rod Full Floating	
	Bush- ing	In rod or piston Material	None In Rod Bronze
Clearance	In piston	.0002-.0004 .0003-.0005 .0001-.0003	
	In rod	.0001-.0003	
Direction & amount offset in piston	Right .0625		

ENGINE – CONNECTING RODS

Material	Forged Steel (SAE-1041-H)	
Weight (oz.)	24.92 27.49 27.08	
Length (center to center)	5.956 5.78 6.488	
Bearing	Material & Type	Plated Copper-Lead Alloy on Steel Back, Replaceable Insert
	Overall length	.706-.726 .724-.734
	Clearance (limits)	.0007-.0025 .0008-.0026 .0014-.0032
	End play	.010-.020 Two Rods

- (a) 428 Straight Face.
 (b) 428 Blued Steel (AISI-C-1075)
 (c) Cleveland (W) Windsor

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ENGINE – CRANKSHAFT

Material		Nodular Cast Iron Alloy, Precision Molded			
Vibration damper type		Tuned, Elastic Suspended, Inertia Member			
End thrust taken by bearing (No.)		Three			
Crankshaft end play		.004-.008 .004-.010			
Main bearing	Material & type	Plated Copper-Lead Alloy on Steel Back (Replaceable Insert) (a)			
	Clearance	.0012-.0029 .0009-.0026 .0005-.0025			
	Journal dia. and bearing overall length	No. 1	2.9998x.880	2.7488x.875	2.7488x.907
		No. 2	2.9998x.880	2.7488x.875	2.7488x.907
		No. 3	2.9998x1.132	2.7488x1.117	
		No. 4	2.9998x.880	2.7488x.875	2.7488x.907
		No. 5	2.9998x.880	2.7488x.875	2.7488x.907
		No. 6	-	-	-
No. 7		-	-	-	
Dir. & amt. cyl. offset		Right Bank Leads .84		R. B. Leads .88	
Crankpin journal diameter		2.3107 2.4384			

ENGINE – CAMSHAFT

Location		In Block Above Crankshaft			
Material		Special Alloy Cast Iron, Precision Molded, Induction Hardened, Phosphate Coated.			
Bearings	Material	SAE-15 Lead Base Babbitt on SAE-1010 Steel Back, Replaceable			
	Number	Five			
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		Sintered Iron (Steel Optional)		
	Camshaft gear or sprocket material		Aluminum Die Cast Body With Molded Nylon teeth		
	Timing chain	No. of links	58	48	
		Width	.637(.750 Alt.)	.762(.880 Alt.)	.875(.890 Alt.)
Pitch		.375	.500		

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard		
Valve rotator, type (intake, exhaust)		Two Piece	None	
Rocker ratio		1.60:1	1.73:1	
Operating tappet clearance (indicate hot or cold)	Intake (b)	Zero (.083-.183)	Zero (.074-.174) (c)	Zero (.119-.219)
	Exhaust (b)	Zero (.083-.183)	Zero (.074-.174) (c)	Zero (.119-.219)

(Continued)

- (a) 351 Unplated
 (b) Clearances are with tappets collapsed.
 (c) For 351-2V, (.067-.167 for 351-4V)
 (C) Cleveland
 (W) Windsor

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MODEL CID 351-2V (W) 351-2V (C) 351-4V (C) 428-4V CJ

ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	11	12	18	18	
		Closes (°ABC)	65	66	70	72	
		Duration - deg.	256	258	268	270	
	Exhaust	Opens (°BBC)	68	66	81	82	
		Closes (°ATC)	22	20	19	28	
		Duration - deg.	270	266	280	290	
Valve opening overlap		33	32	37	46		
Intake	Material		Steel (SAE-1047) Aluminized Head, Chrome Plated Stem (a)				
	Overall length		5.070	5.231		5.446	
	Actual overall head dia.		1.849-1.843	2.046-2.195		2.097-2.082	
	Angle of seat & face		Seat 44°30' to 45°, Face 45°30' to 45°45' (b)				
	Seat insert material		None				
	Stem diameter		.3423-.3416			.3718-.3711	
	Stem to guide clearance		.0010-.0027			.0010-.0027	
	Lift (@ zero lash)		.418	.400	.430	.481 .525	
	Outer spring press. & length	Valve closed (lb. @ in.)	79-87 @ 1.79	@ 1.82	85-95 @ 1.82	86-94 @ 1.82	
		Valve open (lb. @ in.)	204-226 @ 1.34	@ 1.42	244-272 @ 1.39	271-299 @ 1.34	
	Inner spring press. & length	Valve closed (lb. @ in.)	None	Damper Only			
		Valve open (lb. @ in.)	None	Damper Only			
	Exhaust	Material		Cast Austenitic Steel, Aluminized Head, Chrome Stem (c)			
		Overall length		5.070	5.050		5.426
Actual overall head dia.		1.548-1.533	1.6595	1.7145	1.660-1.645		
Angle of seat & face		Seat 44°30' to 45°, Face 45°30' to 45°45'					
Seat insert material		None					
Stem diameter		.3418-.3411			.3708-.3701		
Stem to guide clearance		.0015-.0032			.0020-.0037		
Lift (@ zero lash)		.448	.400	.450	.489 .525		
Outer spring press. & length		Valve closed (lb. @ in.)	79-87 @ 1.79	@ 1.82	85-95 @ 1.82	86-94 @ 1.82	
		Valve open (lb. @ in.)	204-226 @ 1.34	@ 1.42	251-279 @ 1.37	271-299 @ 1.34	
Inner spring press. & length		Valve closed (lb. @ in.)	None	Damper Only			
		Valve open (lb. @ in.)	None	Damper Only			

ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure		
	Connecting rods	Pressure		
	Piston pins	Oil Mist	Timed Pressure Stream	Oil Mist
	Camshaft bearings	Pressure		
	Tappets	Pressure		
	Timing gear or chain	Splash	Metered Pressure	Splash
	Cylinder walls	Oil Mist and Splash		

(Continued)

- (a) 351-2V (W & C) No Chrome, 351 (C) and 428 #1 Sil-Chrome
 (b) 428 Seat 59°30' to 60°, Face 60°30' to 60°45'. (C) Cleveland (W) Windsor
 (c) 351 (W & C) and 428 21-4N Steel: 351-2V (W & C) No Chrome Plate.

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MODEL _____ CID 351-2V (W & C) 351-4V (C) 428-4V CJ

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor		
Normal oil pressure (lb. @ engine rpm)	35-55 psi	50-70 psi @ 2000 Eng. rpm	45-65 psi
Oil press. sending unit (elect. or mech.)	Electrical		
Type oil intake (floating, stationary)	Stationary Shrouded Screen in Sump		
Oil filter system (full flow, part., other)	Full Flow		
Filter replacement (element, complete)	Complete		
Capacity of c/case, less filter-refill (qt.)	4.0		
Oil grade recommended (SAE viscosity and temperature range)	Multi-Viscosity		Single Viscosity
	+32° F & Above – SAE 20W-40	0° & Above – SAE 10W-40	+90° F & Above – SAE 40
	-10° F to +90° F – SAE 10W-30	Below-10° F (-32° Max) – SAE 5W-30	+32° F to +90° F – SAE 30
			+10° F to +32° F – SAE 20-20W
			-10° F to +10° F – SAE 10-10W
Engine Service Reqmt. (MM, MS, etc.)			

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Dual	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow	2-Two Passage	Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.25x.084 Lam. (a)	
	Main	2.25x.075 Solid	
Tail pipe dia. (O.D. & wall thickness)	2.25x.060 Solid	2.00x.060 Solid	2.25x.060 Solid

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System (Closed System)
	Optional	None
Control Unit	Make and model	Ford, AC, Chicago Screw, or Eaton
	Location	Rocker Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
	Control method (variable orifice, fixed orifice, other)	Variable Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Carburetor Spacer and/or Carburetor Air Cleaner (Except 351-2V & 4V Cleveland) (b)
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner
	Flame arrester (screen, check valve, other)	Emission Valve and Air Cleaner Filter

(C) Cleveland (W) Windsor

(a) 2.00x.084 Lam. for 351-2V (W)

(b) For 351-2V & 4V Cleveland: Carburetor Body (Primaries 4-V) and/or Carburetor Air Cleaner.

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	Transmission CID	Manual 351-2V (W)	Automatic 351-2V (W)
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ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Engine, Carburetor and Distributor Modifications		
Air Injection Pump	Type	None		
	Displacement			
	Drive ratio			
	Drive type			
	Relief valve (type)			
	Filter (describe)			
Air Injection System	Air distribution (head, manifold, etc.)	None		
	Point of entry			
	Injection tube I.D.			
	Check valve type			
	Backfire protection (type)			
(a) Carburetor	Make	Autolite		
	Model <u>-9510-</u>	D0AF-E	D0AF-F	
	Barrel size	1.689		
	(b) Idle speed	Drive	—	575
		Neutral	800	—
	Idle A/F mixture			
Distributor	Aux. Adv. Systems (type)	See Page 13		
	Make			
	Model			
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)		
		Intermed. points deg. @ rpm		
		Max. deg. @ rpm		
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)		
Intermed. points deg. @ in. Hg				
Max. deg. @ in.				
	Vacuum Source	Carburetor		
Timing - Crank degrees @ rpm		6° BTC @ Idle (Vacuum Disconnected)		
Cooling System		See Page 11		
Exhaust System		See Page 8		

(a) See Page 10 for Carburetor Supplementary Information.

(b) Lights On — Non A/C; Special Settings Required with Air Cond. (W) Windsor

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	Transmission		Manual	Automatic	Manual	Automatic
MODEL	CID		351-2V (C)	351-2V (C)	351-4V (C)	351-4V (C)

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)						
Air Injection Pump	Type	Engine, Carburetor and Distributor Modifications				
	Displacement	None				
	Drive ratio					
	Drive type					
	Relief valve (type)					
	Filter (describe)					
Air Injection System	Air distribution (head, manifold, etc.)	None				
	Point of entry					
	Injection tube I.D.					
	Check valve type					
	Backfire protection (type)					
(a) Carburetor	Make	Autolite				
	Model -9510-	D00F-K	D00F-L	D00F-AB	D00F-AC	
	Barrel size	1.689		1.565 Pri. 1.690 Sec.		
	(b) Idle speed	Drive	600			
		Neutral	750	800		
Idle A/F mixture	.0776 @ 19CFM	.088 @ 15CFM	.076 @ 20CFM	.082 @ 16CFM		
Aux. Adv. Systems (type)		See Page 13				
Distributor	Make					
	Model					
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)				
		Intermed. points deg. @ rpm				
		Max. deg. @ rpm				
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)				
Intermed. points deg. @ in. Hg Max. deg. @ in.						
Vacuum Source		Carburetor				
Timing - Crank degrees @ rpm		6°BTC @ Idle (Vacuum Disconnected)				
Cooling System		See Page 11				
Exhaust System		See Page 8				

(a) See Page 10 for Carburetor Supplementary Information.

(b) Lights On — Non A/C; Special Settings Required with A/C. (C) Cleveland

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Transmission	Manual	Automatic
MODEL <u>CID</u>	<u>428-4V</u>	<u>428-4V</u>

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)	Air Injection, Engine, Carburetor and Distributor Modifications			
Air Injection Pump	Type	Positive Displacement, Vane Type		
	Displacement	19.3 Cubic Inches Per Revolution		
	Drive ratio	1.25:1		
	Drive type	V-Belt and Pulley		
	Relief valve (type)	Pressure Sensitive-Poppet		
	Filter (describe)	Centrifugal		
Air Injection System	Air distribution (head, manifold, etc.)	Manifold		
	Point of entry	Exhaust Ports in Cylinder Heads		
	Injection tube I.D.	.260		
	Check valve type	Spring Loaded Plate – Poppet		
	Backfire protection (type)	Air By-Pass or Anti-Backfire Valve		
(a) Carburetor	Make	Holley		
	Model <u>-9510-</u>	D0ZF-AA	D0ZF-AB	
	Barrel size	1.680 Pri. & Sec.	1.680 Pri. & Sec.	
	(b) Idle speed	Drive	—	675
		Neutral	725	
Idle A/F mixture	.087 @ 19.0CFM	.087 @ 18.0CFM		
Aux. Adv. Systems (type)	See Page 13			
Distributor	Make			
	Model			
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)		
		Intermed. points deg. @ rpm		
		Max. deg. @ rpm		
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)		
		Intermed. points deg. @ in. Hg		
Max. deg. @ in.				
Vacuum Source	Carburetor			
Timing - Crank degrees @ rpm	6°BTC @ Idle (Vacuum Disconnected)			
Cooling System	See Page 11			
Exhaust System	See Page 8			

(a) See Page 10 for Carburetor Supplementary Information.

(b) Lights On — Non A/C; Special Settings Required with Air Cond.

AMA Specifications—Passenger Car

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MODEL CID 351-2V (W) 351-2V-4V (C) 428-4V C.I.

ENGINE - FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor (Down Draft)		
Fuel Tank	Refill capacity (U.S. gals.)	22 Gallons (20 Gallons with Evaporative Emission)		
	Filler location	Rear Center of Car		
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Left Side of Engine		
	Pressure range	4.5 - 5.5	5.0 - 6.0	
Vacuum booster (std., optional, none)		None		
Fuel Filter	Type	#1 Saran Plastic	#2 Nylon and Monel Cloth	
	Locations	#1 In-Fuel Tank (Perm) #2 In-Line at Carburetor		
Carburetor	Choke type	Automatic	Manual	
	Intake manifold heat control (exhaust or water)	Hot and Cold Air Supply Water Heated Carb. Spacer(302-428)	Hot & Cold Air. Exh. Heat	
	Air cleaner type	Standard	Dry Replaceable Element	
		Optional	None	
Idle speed (spec. neutral or drive)	Manual	800	725	
	Automatic	600	675	
(a)	Idle A/F mix.	See Page 9, and Supplement		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
All	(W) 351	Manual	Autolite	-9510- D0AF-E	One-2V	1.689
Non A/C	(W) 351	Automatic	Autolite	D0AF-F	One-2V	1.689
With A/C	(W) 351	Automatic	Autolite	D0AF-V	One-2V	1.689
All	(C) 351	Manual	Autolite	D0AF-K	One-2V	1.689
Non A/C	(C) 351	Automatic	Autolite	D0OF-L	One-2V	1.689
With A/C	(C) 351	Automatic	Autolite	D0OF-M	One-2V	1.689
All	(C) 351	Manual	Autolite	D0OF-AB	One-4V	1.565 Pri.
Non A/C	(C) 351	Automatic	Autolite	D0OF-AC	One-4V	1.690 Sec.
With A/C	(C) 351	Automatic	Autolite	D0ZF-AB	One-4V	1.690 Sec.
All CJ Non A/C	428	Manual	Holley	D0ZF-AA	One-4V	1.687 Pri.
All CJ Non A/C	428	Automatic	Holley	D0ZF-AB	One-4V	1.687 Sec.
All CJ With A/C	428	Manual	Holley	D0ZF-AC	One-4V	1.687 Sec.
All CJ With A/C	428	Automatic	Holley	D0ZF-AD	One-4V	1.687 Sec.

(a) Lights On - Non A/C

(W) Windsor

(C) Cleveland

AMA Specifications—Passenger Car

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MODEL CID 351-2V (Windsor) ALL MODELS

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure
Radiator cap relief valve pressure		12-16 PSI
Circulation thermostat	Type (choke, bypass)	Choke – Poppet or Sleeve Valve
	Starts to open at (°F)	188-195 (Full Open 212)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM @ 1000 pump rpm	14
	Number of pumps	One
	Drive (V-belt, other)	V-Belt
Bearing type		Double Row, Sealed, Ball and Roller
By-pass recirculation type (inter., ext.)		External
Radiator core type (cellular, tube and fin, other)		Downflow, Tube and Slit Fin
Cooling system capacity	With heater (qt.)	14.6
	Without heater (qt.)	13.6
	Opt. equipment-specify (qt.)	16.1 with Extra Cooling or Air Conditioning
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	1.75
	Upper	Number and type (molded, straight)	One, Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One, Molded
		Inside diameter	.615

Cooling Package		Man. Trans.	Auto. Trans.	Air Conditioning
Fan	Number of blades & spacing	4 Uneven	5 Uneven	7 Uneven
	Diameter	17.56 x 2.25	17.56 x 2.40	17.50 x 2.25
	Ratio-fan to crankshaft rev.	0.96:1	1.13:1	
	Fan cutout type	None	Flex Blade	Thermo-Modulated
	Bearing type	Double Row, Sealed, Ball and Roller (Water Pump Bearing)		

*Drive belts (indicate belt used by letter)	Fan Arrangement	1 or 2	1 or 2 & 3	1 or 2	1 or 2 & 3	4	3 & 4
	Generator or alternator	A	B	A	B	B	B
	Water Pump and Fan	A	C	A	C	D	E
	Power Steering		C		C		E
	Air Conditioning					F	F
	Crankshaft	A	BC	A	BC	BDE	BEF
Idler					DE	F	

	1. Standard Cooling			2. Extra Cooling			3. Power Steering			4. Air Conditioning		
* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K	
Angle of V	36°	36°	36°	36°	36°	36°						
Nominal length (SAE)	42.50	39.00	53.50	46.75	52.75	55.75						
Width	15/32	15/32	1/2	1/2	1/2	1/2						

AMA Specifications—Passenger Car

MAKE OF CAR COUGAR MODEL YEAR 1970 DATE ISSUED _____ REVISED (•) 11/69

MODEL CID 351-2V and 4V (Cleveland) ALL MODELS

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure					
Radiator cap relief valve pressure		12-16 PSI					
Circulation thermostat	Type (choke, bypass)	Choke - Poppet or Sleeve Valve					
	Starts to open at (°F)	188 - 195 (Full Open 212)					
Water pump	Type (centrifugal, other)	Centrifugal					
	GPM - 1000 pump rpm	13					
	Number of pumps	One					
	Drive (V-belt, other)	V-Belt					
Bearing type		Double Row, Sealed, Ball and Roller					
By-pass recirculation type (inter., ext.)		Internal					
Radiator core type (cellular, tube and fin, other)		Downflow, Tube and Slit Fin.					
Cooling system capacity	With heater (qt.)	14.6					
	Without heater (qt.)	13.6					
	Opt. equipment-specify (qt.)	16.1 with Extra Cooling or Air Conditioning					
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	1.75				
	Upper	Number and type (molded, straight)	One, Molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	None				
		Inside diameter	Man. Trans.	Auto. Trans.	Air Conditioning		
Cooling Package	Number of blades & spacing	4 Uneven	5 Uneven	7 Uneven			
Fan	Diameter	17.56 x 2.25	17.56 x 2.40	17.50 x 2.25			
	Ratio-fan to crankshaft rev.	0.96:1	1.13:1				
	Fan cutout type	None	Flex Blade	Thermo-Modulated			
	Bearing type	Double Row, Sealed, Ball and Roller (Water Pump Bearing)					
* Drive belts (indicate belt used by letter)	Fan Arrangement	1 or 2	1 or 2 & 3	1 or 2	1 or 2 & 3	4	3 & 4
	Generator or alternator	A	B	A	B	B	B
	Water Pump and Fan	A	C	A	C	D	E
	Power Steering		C		C		E
	Air Conditioning					F	F
	Crankshaft	A	BC	A	BC	BDF	BEF
Idler					DF	F	

	1. Standard Cooling			2. Extra Cooling			3. Power Steering			4. Air Conditioning		
* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K	
Angle of V	36°	36°	36°	36°	36°	36°						
Nominal length (SAE)	42.50	39.00	52.25	46.75	51.25	55.75						
Width	15/32	15/32	1/2	1/2	1/2	1/2						

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MODEL _____ CID 428-4V CJ

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure
Radiator cap relief valve pressure		12-16 PSI
Circulation thermostat	Type (choke, bypass)	Choke - Poppet or Sleeve Valve
	Starts to open at (°F)	188-195 (Full Open 212)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM @ 1000 pump rpm	17
	Number of pumps	One
	Drive (V-belt, other)	V-Belt
Bearing type		Double Row, Sealed, Ball and Ball
By-pass recirculation type (inter., ext.)		
Radiator core type (cellular, tube and fin, other)		Downflow, Tube and Slit Fin
Cooling system capacity	With heater (qt.)	19.3
	Without heater (qt.)	18.3
	Opt. equipment-specify (qt.)	19.3 with Air Conditioning
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	1.75 at Radiator: 2.07 at Water Pump
	Upper	Number and type (molded, straight)	One, Molded
		Inside diameter	1.50 at Radiator: 1.75 at Engine Water Outlet
	By-pass	Number and type (molded, straight)	One, Straight
		Inside diameter	.615

Cooling Package				
Fan	Number of blades & spacing	7 Uneven	6 Uneven	Air Conditioning 7 Uneven
	Diameter	18.00 x 1.80	18.00 x 2.00	18.25 x 2.00
	Ratio-fan to crankshaft rev.	0.94:1		1.25:1
	Fan cutout type	Flex Blade		Thermo-Modulated
	Bearing type	Double Row, Sealed, Ball and Ball (Water Pump Bearing)		

*Drive belts (indicate belt used by letter)	Arrangement	1 or 2 & 3	1 or 2 & 3	4	3 & 4
	Generator or alternator	A	A	D	F
	Water Pump and Fan	AB	AB	D	FG
	Power Steering	C	C		G
	Air Conditioning			E	E
	Crankshaft	A C	A C	DE	EFG
Idler	B	B	E	E	

	1. Standard Cooling			2. Extra Cooling			3. Power Steering			4. Air Conditioning		
* Drive Belt Dimensions	#A	B	C	#D	E	F	G	H	I	J	K	
Angle of V	36°	36°	36°	36°	36°	36°	36°					
Nominal length (SAE)	42.00	35.00	44.00	41.00	62.75	41.00	51.50					
Width	15/32	15/32	1/2	15/32	1/2	15/32	15/32					

(a) For up to 3.91:1 Rear Axle Ratio (b) With 4.30:1 Rear Axle Ratio #Dual Belts Form Rev. 3-67

AMA Specifications—Passenger Car

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MODEL CID 351-2V-4V 428-4V CJ

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model-10655-(a)		C9AF-A	C9AF-D
	Voltage Rtg. & Total Plates		12V. 54 Pl.	12V. 78 Pl.
	SAE Designation & Amp. Hr. Rtg.		17M1A, 45 A.H.	17H3A, 80 A.H.
	Location		Right Front Engine Compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Autolite Alternator	
	Model-10300-		See Page 12A	
	Type and rating		3 Phase, Full Wave Bridge Rectified, Self Limiting	
	Output at engine idle (neutral)			
Ratio-Gen. to Cr/s rev.		See Page 12A		
Regulator	Make		Autolite	
	Model		C8AF-10316-A (C8TF-10316-A with 55 Amp. + Alternator)	
	Type		Two Unit, Voltage Control and Field Relay	
	Cutout relay	Closing voltage at generator rpm	2.5 - 4.0 Volts at 75 ^o F	
		Reverse current to open	Not Applicable	
	Regu- lated	Voltage	13.5-15.3 @50 ^o -125 ^o F on Lower Contacts (Shorting Stage)	
		Current	Not Applicable	
	Voltage test conditions	Temperature	75 ^o F	
Load		5 Amps		
Other				

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Autolite	
	Model -11001-		See Page 12A	
	Rotation (drive end view)		Clockwise	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure			
Motor Drive	Engagement type		Positive (Electro-Mechanical)	
	Pinion meshes (front, rear)		Front	
	Number of teeth	Pinion	164	184
		Flywheel	Manual	164
			Auto.	.365
	Flywheel tooth face width	Manual	.365	
		Auto.		

(a) For Other Applications See Page 12A.

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MODEL _____

BATTERY APPLICATIONS (-10655-)

ENGINE-CID	TRANSMISSION	AIR COND.	STANDARD	OPTIONAL
351-2V	Man. & Auto.	#	C9AF-A (45AH)	55AH
351-2V	Automatic	#	C9AF-B (55AH)	70AH
351-4V	Man. & Auto	#	C9AF-C (70AH)	None
428-4V CJ	Man. & Auto.	#	C9AF-D (80AH)	None

#With or without Air Conditioning

ALTERNATOR APPLICATIONS (-10300-)

ENGINE-CID	STANDARD	RATIO	AIR CONDITIONED	RATIO
351-2V-4V	D0ZF-B (38A) P/S	3.0:1	D0SF-A (55A)	3.0:1
351-2V-4V	D0AF-G (42A) No P/S	2.5:1	D0SF-A (55A)	3.0:1
428-4V CJ	D0ZF-C (55A)	2.54:1	D0ZF-C (55A)	2.73:1

STARTING MOTOR APPLICATIONS (-11001-)

ENGINE-CID	MANUAL TRANS.	AUTOMATIC TRANS.
351-2V	D0AF-C	D0AF-B
351-4V	D0AF-C	D0AF-B
428-4V	D0TF-A	D0TF-A

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MODEL	TRANSMISSION CID (Windsor)	MANUAL 351-2V	AUTOMATIC 351-2V
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ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.	Standard			
	Transistorized – Std., Opt., N.A.	N.A.			
	Other (specify)	None			
Coil	Make	Autolite			
	Model	FAC-12029-A			
	Amps	Engine stopped	4.5		
		Engine idling	2.5		
Distributor (a)	Make	Autolite			
	Model	-12127-			
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	0-4 @ 1000		
		Intermediate points deg. @ rpm	8-12 @ 1400		
			15-20 @ 3000	15-19 @ 3000	
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Max. deg. @ rpm	19.5-24.5 @ 4000		
		Start (in. Hg.)	0-2 @ 5.0	0-3 @ 9.0	
		Intermediate points, deg. @ in. Hg.	0-6 @ 5.7	0-6 @ 11.0	
			10-16 @ 8.8	7-13 @ 14.0	
	Max. deg. in. Hg.	11-16 @ 10.0	14-19 @ 17.0		
Breaker gap (in.)	.018-.024				
Cam angle (deg.)	24.5-29.0				
Breaker arm tension (oz.)	17-21				
Timing	Crankshaft deg. @ rpm	6° BTC @ Idle (Vacuum Disconnected)			
	Mark location	Crankshaft Damper			
Spark Plug	Make	Autolite			
	Model	-12405-	C6AF-A (BF-42)		
	Thread (mm)	18mm			
	Tightening torque (lb. ft.)	15-25			
Gap	.032-.036				
Cable	Conductor type	Resistance Core Cable			
	Insulation type	Hypalon Sheath			
	Spark plug protector	Silicone Boot			

ELECTRICAL – SUPPRESSION

Locations & type	Static Collectors in Front Wheels,	
	Capacitor in Alternator and Voltage Regulator,	
	Resistance Core Ignition Cable and Hood Ground	
Vacuum Retard Characteristics,	-2 @ 5.25-9.25	-2 @ 6.0-10.0
Crankshaft Degrees at	-8 @ 7.0-11.0	-8 @ 8.5-12.5
Inches of Mercury.	10/12 @ 12.0	-10/12 @ 14.0

(a) Set With Vacuum Line Off Distributor

MAKE OF CAR	COUGAR	MODEL YEAR	1970	DATE ISSUED	9/69	REVISED	11/69
	TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC		
MODEL	CID (Cleveland)	351-2V	351-2V	351-4V	351-4V		

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard				
	Transistorized – Std., Opt., N.A.		N.A.				
	Other (specify)		None				
Coil	Make		Autolite				
	Model		FAC-12029-A				
	Amps	Engine stopped	4.5				
Engine idling		2.5					
Distributor	Make		(70F97)	(70F57)	(70F118)	(70F30)	
	Model		-12127-	D00F-T	D00F-U	D00F-V	D00F-Z
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	0-4 @ 1100	0-4 @ 900	0-4 @ 1400	0-4 @ 1200	
		Intermediate points deg. @ rpm	13.0-17.0@2400	10.0-14.0@1350	16.0-20.0@2700	10.5-14.5@1750	
		Max. deg. @ rpm	20.0-25.0@4000	20.5-25.5@4000		15.5-20.5@4000	
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0-3 @ 4.5	0-3 @ 7.0			
		Intermediate points, deg. @ in. Hg.	0-6 @ 5.5	0-6 @ 8.3	0-6 @ 8.5		
		Max. deg. in. Hg.	8-14 @ 9.0	10-16 @ 13.0	8-14 @ 13.0		
	Breaker gap (in.)		.018-.024	.014-.020	.018-.024		
	Cam angle (deg.)		24.5-29.0	27.0-31.5	24.5-29.0		
Breaker arm tension (oz.)		17-21					
Timing	Crankshaft deg. @ rpm		6° BTC @ Idle (Vacuum Disconnected)				
	Mark location		Crankshaft Damper				
Spark Plug	Make		Autolite				
	Model		C9ZF-B	C9ZF-A			
	Thread (mm)		14mm				
	Tightening torque (lb. ft.)		5-10				
Cable	Gap		.032-.036				
	Conductor type		Resistance Core Cable				
	Insulation type		Hypalon Sheath				
Spark plug protector		Silicone Boot					

ELECTRICAL – SUPPRESSION

Locations & type	Static Collectors In Front Wheels, Capacitor in Alternator and Voltage Regulator, Resistance Core Ignition Cable and Hood Ground.			
Vacuum Retard Characteristics:	-2 @ 5.5-9.5	-2 @ 6.0-10.0		
Crankshaft Degrees	-8 @ 8.0-12.0	-8 @ 8.0-12.0	-4 @ 6.5-10.5	
At Inches of Mercury	-10/12 @ 13.0	-10/12 @ 12.5	-5/7 @ 11.0	

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	TRANSMISSION CID	MANUAL 428-4V CJ	AUTOMATIC 428-4V CJ
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ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard		
	Transistorized – Std., Opt., N.A.		N. A.		
	Other (specify)		None		
Coil	Make		Autolite		
	Model		FAC-12029-A		
	Amps	Engine stopped	4.5		
		Engine idling	2.5		
Distributor	Make	(Autolite)	(70F20)	(70F100)	
	Model	-12127-	DOZF-C	DOZF-G	
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)		0-3 @ 1000	0-4 @ 1050
		Intermediate points deg. @ rpm		16-20 @ 1750	12-16 @ 1700
				19.2-23.8 @ 3000	17.5-22.0 @ 3000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Max. deg. @ rpm		22-27 @ 4000	
		Start (in. Hg.)		0-3 @ 8.0	0-3 @ 7.5
		Intermediate points, deg. @ in. Hg.		0-6 @ 9.0	0-6 @ 8.5
				10-16 @ 13.0	4-10 @ 10.0
		Max. deg. in. Hg.		17-22 @ 17.0	14-19 @ 15.0
	Breaker gap (in.)		.018-.022	.014-.020	
	Cam angle (deg.)		32.0-35.0	27.0-31.5	
	Breaker arm tension (oz.)		17-21		
Timing	Crankshaft deg. @ rpm		6° BTC @ Idle (Vacuum Disconnected)		
	Mark location		Crankshaft Damper		
Spark Plug	Make		Autolite		
	Model		C0AF-12405-B (BF-32)		
	Thread (mm)		18 mm		
	Tightening torque (lb. ft.)		15-25		
	Gap		.032-.036		
Cable	Conductor type		Resistance Core Cable		
	Insulation type		Hypalon Sheath		
	Spark plug protector		Silicone Boot		

ELECTRICAL – SUPPRESSION

Locations & type	Static Collectors In Front Wheels, Capacitor In Alternator and Voltage Regulator Resistance Core Ignition Cable and Hood Ground
Vacuum Retard Characteristics:	-2 @ 3.5-7.5
Crankshaft Degrees	-4 @ 6.0-10.0
At Inches of Mercury	-5/7 @ 10.0

AMA Specifications—Passenger Car

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MODEL CID 351-2V 351-4V 428-4V CJ

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Pointer
	Trip odometer (yes,no)	Optional
Charge indicator – type		Warning Light (Optional: Electrical Gage)
Temperature indicator – type		Electrical gage
Oil pressure indicator – type		Warning light (Optional: Electrical Gage)
Fuel indicator – type		Electrical gage
Other		Emergency flasher, directional signal lights, headlamp beam indicator, brake system warning light (a)
Wind-shield wiper	Type – Standard	Electric two-speed
	Type – Optional	Electric variable-dwell
Wind-shield washer	Type – Standard	Electric
	Type – Optional	None
Horn	Type	Electric
	Number used	Two
	Amp draw (each)	5.5 amperes max.

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Semi-centrifugal, single disc, dry plate	
Type pressure plate springs		Coil	
Total spring load (lb.)		1845	2100
No. of clutch driven discs		One	
Clutch facing	Material	Woven asbestos	
	Outside & inside dia.	11.0x7.0	11.5x7.0
	Total eff. area (sq.in.)	113.0	130.8
	Thickness	.125	
	Engagement cushioning method	Torbend disc	
Release bearing	Type & method of lubrication	Angular contact, prepacked sealed	
Torsional damping	Methods: springs, friction material	Springs	

(a) Optional: Electric clock, tachometer, parking brake warning light and safety convenience warning light group which consists of low fuel, door ajar, seat belt warning.

AMA Specifications—Passenger Car

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MODEL CID 351-2V 351-4V 428-4V CJ

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard	Standard	NA
Manual 4-speed (std. or opt.)	Optional	Optional	Standard
Manual with overdrive (std. or opt.)	NA	NA	NA
Automatic (std. or opt.)	Optional	Optional	Optional

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Speed (a)	4-Speed (b)	4-Speed (c)	
Transmission ratios	In first	2.42:1	2.78:1	2.32:1	
	In second	1.61:1	1.93:1	1.69:1	
	In third	1.00:1	1.36:1	1.29:1	
	In fourth	—	1.00:1	1.00:1	
	In reverse	2.33:1	2.78:1	2.32:1	
Synchronous meshing, specify gears		1-2-3	1-2-3-4	1-2-3-4	
Shift lever location		Floor			
Lubricant	Capacity (pt.)	3.5	4.0		
	Type recommended	ESW-M2C83-B			
	SAE viscosity number	Summer	SAE 80		
		Winter	SAE 80		
Extreme cold		SAE 80			

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		Not Available
Manual lockout (yes, no)		
Downshift accelerator control (yes, no)		
Minimum cut-in speed		
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	Summer
Winter		
Extreme cold		

(a) Standard with 351-2V and 351-4V engines.

(b) Optional with 351-2V and 351-4V engines.

(c) Standard with 428-4V engine. Optional with 351-2V and 351-4V engines.

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ALL MODELS

MODEL CID 351-2V 351-4V 428-4V CJ

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Select-Shift Cruise-O-Matic		
Type describe	Torque Converter w/Planetary Gears		
Selector location	Floor lever		
List gear ratios Selector Pattern and indicate which are used in each selector position	P – Park R – Reverse 2.00:1 2.175:1 N – Neutral D – Drive 1.00:1 1.00:1 2 – Second 1.47:1 1.46:1 1 – First 2.40:1 2.46:1		
Max. upshift speed—drive range	77	89	100
Max. kickdown speed—drive range	70	79	90
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.10:1	2.05:1
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	12.00	
Lubricant	Capacity—refill (pt.)	22	26
	Type recommended	Transmission M-2C33F (Type "F")	
Special transmission features	Isolation of 1st and 2nd gear through manual shift. 1st or 2nd gear start-up.		

DRIVE UNITS – PROPELLER SHAFT

Number used	One		
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Exposed cardboard lined		
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.75 x 53.24" x .065" (a)	N.A.
	Manual 4-speed trans.	3.00 x 53.24 x .065	3.00 x 53.03 x .065 3.5 x 53.03 x .065
	Overdrive transmission	Not Available	
	Automatic transmission	3.00 x 53.54 x .065	3.5 x 49.64 x .065

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

(Continued)

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MODEL CID 351-2V ALL MODELS 351-4V 428-4VCJ

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lubrication (fitting, prepack)	None	
Slip Yoke	Type		
	Number of teeth	Man Trans	28
		Auto Trans	31
	Spline O.D.	Man Trans	1.50
Auto Trans		1.68	
Universal joints	Make and Mfg. No.	Ford 1310	Ford 1330
	Number used	Two	
	Type (ball and trunnion, cross)	Cross	
	Rear attach. (u-bolt, clamp, etc.)	"U" Bolt	
	Bearing	Type (plain, anti-friction)	Needle Roller
Lubric. (fitting, prepack)		Pre-Pack	
Drive taken through (torque tube or arms, springs)		Rear Springs	
Torque taken through (torque tube or arms, springs)		Rear Springs	

DRIVE UNITS – AXLE

Type (front, rear)		Rear		
Description		Conventional semi-floating, straddle mounted pinion		
Limited Slip differential, type		Traction-Lok		
Drive Pinion Offset		2.25		
No. of differential pinions		Two and Four		
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		Collapsible spacer and solid spacer		
Wheel bearing type		Single row, double sealed ball		
Lubricant	Capacity (pt.)	5		
	Type recommended	M2C119A		
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 90	
Extreme cold		SAE 90		

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.75:1	3.00:1	3.25:1	3.50:1	3.91	4.30
No. of teeth	Pinion	16	13	12	10	11	10
	Ring gear	44	39	39	35	43	43
Ring Gear O.D.		9"	9"	9"	9"	9"	9"

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MODEL CID ALL MODELS
 351-2V/4V 428-4V CJ

DRIVE UNITS – WHEELS

Type & material		Stamped Steel
Rim (size & flange type)	Std.	14 x 6 JJ
	Opt.	14 x 6 Styled wheel
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	Five – 0.5 inch

MODEL _____

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		E78 – 14 BSW (a)	F70 – 14 WSW (a)
	Type (bias, radial, etc.)		Belted bias	
	Full rated Inflation Press.	Front	26	28
		Rear	26	28
Rev./Mile at 50 MPH		797	784	
Optional	Size, ply rating, & ply		E78 – 14 WSW (a)	—
			F70 – 14 WSW (a)	—
			F70 – 14 "Traction" (a)	F70 – 14 "Traction" (a)(b)

BRAKES – PARKING

Type of control		Foot-operated step-on/handle release
Location of control		L-hand of steering column under instrument panel
Operates on		Rear service brake
If separate from service brakes	Type (internal or external)	—
	Drum diameter	—
	Lining size (length x width x thickness)	—

(a) Load range "B" - inflate to 32 PSI maximum for maximum fuel economy

(b) Standard with 428-4V Ram-Air engine.

NOTE: When using maximum fuel economy inflation pressures any front and rear tire pressure differentials shown above must be maintained but do not exceed maximum pressure.

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ALL MODELS

MODEL _____

BRAKES – SERVICE		Drum Brakes		
Type (drum) or (disc & no. of pistons)		Duo-Servo		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	Pressure Differential		
Power brake make & type (remote, int., etc.)	Std.	—		
	Opt.	Disc (a) (Mandatory option on 428-4V convertibles)		
Effective area (sq. in.) *		144.5		
Gross lining area (sq. in.) **		173.3		
Swept area (sq. in.) ***		282.8		
Front to Rear Effectiveness Relationship		60.6%/39.4%		
Drum	Diameter (nominal)	Front	10.0	
		Rear	10.0	
	Type and material	Front: Flared and finned full cast iron Rear: Composite iron and steel		
Rotor	Outer working diameter		—	
	Inner working diameter		—	
	Working width		—	
	Material & type (vented/solid)		—	
Wheel cylinder bore	Front		1.125	
	Rear		.906	
Master Cylinder	Bore		1.00	
	displacement distribution	Front %	65	
		Rear %	35	
Pedal arc ratio		6.22:1		
Line pressure at 100 lb. pedal load		795		
Shoe Clearance	Front		.015	
	Rear		—	
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material		Asbestos
		Size (length x width x thickness)	Prim. or out-board	2.50 x 8.46 x .184
			Second. or in-board	2.50 x 10.88 x .239
		Segments per shoe		One
	Rear Wheel	Material		Asbestos
		Size (length x width x thickness)	Prim. or out-board	2.00 x 8.46 x .184
			Second. or in-board	2.00 x 10.88 x .239
Segments per shoe		One		

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

(a) Optional disc brakes front, see page 19A.

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ALL MODELS

MODEL _____

BRAKES — SERVICE

Optional — Disc Brakes — Front Only

Type (drum) or (disc & no. of pistons)		Caliper Disc		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	Differential (Front and Rear)		
Power brake make & type (remote, int., etc.)		Std.	Pressure Control — Rear	
Opt.	Pkg.	Bendix tandem integral dual master cylinder		
Effective area (sq. in.) *		40.6		
Gross lining area (sq. in.) **		40.6		
Swept area (sq. in.) ***		231		
Front to Rear Effectiveness Relationship		Controlled by valving		
Drum	Diameter (nominal)	Front	—	
		Rear	10.0	
Type and material		Cast-iron disc, Ductile iron caliper		
Rotor	Outer working diameter		11.3	
	Inner working diameter		7.35	
	Working width		.910	
	Material & type (vented/solid)		Cast-iron vented	
Wheel cylinder bore	Front		2.38	
	Rear		See Page 19	
Master Cylinder	Bore		1.000	
	displacement	Front %	65	
	distribution	Rear %	35	
Pedal arc ratio		3.5		
Line pressure at 100 lb. pedal load		1120 @ 20 Hg		
Shoe Clearance	Front		—	
	Rear		—	
Brake lining	Bonded or riveted		Bonded	
	Front Wheel	Material		Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	6.815 x 2.20 x .362
			Second. or in-board	4.95 x 2.07 x .362
		Segments per shoe		One each side of disc
	Rear Wheel	Material		
Size (length x width x thickness)		Prim. or out-board	(See Page 19)	
		Second. or in-board		
Segments per shoe				

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

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STEERING

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt — 5 Position		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	15.0 x 15.5 Semi-Oval		
	Power	15.0 x 15.5 Semi-Oval		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	N.A.	
		Curb to curb (l. & r.)	39.38	
	Inside rear	Wall to wall (l. & r.)	N.A.	
		Curb to curb (l. & r.)	N.A.	
Ots. whl. angle w/inside whl @ 20°		18°40'		
Manual	Gear	Type	Recirculating ball & nut lube ESW-M1C87-A .55 lb. \pm .05	
		Make	Ford	
		Ratios	Gear	19.9
			Overall	25.45:1
No. wheel turns (stop to stop)		4.46		
Power	Type (coaxial, linkage, etc.)		Linkage	
	Make		Ford	
	Gear	Type	Recirculating ball & nut lube EDW-M1C87-A .55 lbs. \pm .05	
		Ratios	Gear	16.0:1
			Overall	20.48:1
	Pump driven by		Belt off crankshaft pulley lube M-2C33-F	
No. wheel turns (stop to stop)		3.59		
Linkage	Type		Parallelogram with cross link	
	Location (front or rear of wheels, other)		Rear	
	Drag link (trans. or longit.)		Transverse	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		6-3/4° theoretical non-adjustable	
	Bearings (type)	Upper	Ball joint	
		Lower	Ball joint	
		Thrust	Friction washer in upper ball joint	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		0° \pm 0°30'	
	Camber (deg.)		1° \pm 0°45'	
	Toe-in (outside track inches)		.18 \pm .06	
Steering spindle & joint type		Integral w/wheel spindle; ball socket joints		
Wheel Spindle	Diameter	Inner bearing	1.38 I.D.	
		Outer bearing	.86 I.D.	
	Thread size		13/16-20 UNEF-2A R.H. Thread	
	Bearing type		Tapered Roller	

AMA Specifications—Passenger Car

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SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		None	
Provision for brake dip control		Tilted upper control arm anti-dive front suspension	
Provision for acc. squat control		Asymmetrical type rear spring mounting	
Special provisions for car jacking		Special notched rocker panel positions front and rear on each side of car	
Shock absorber front & rear	Type	Direct acting	
	Make	Autolite	Gabriel
	Piston dia.	1.0	1-3/16
Other special features			

SUSPENSION – FRONT

Type and description		Independent S. L. A. with drag strut, ball joints, coil springs and shock absorbers mounted over upper arm	
Spring	Type	Coil	
	Material	Steel SAE 5160	
	Size (coil design height & I.D.; bar length x dia.)	10.04 x 3.88 123" - 128" Length, .60" x .65" Diam.	
	Spring rate (lb. per in.)	260	365
	Rate at wheel (lb. per in.)	95	130
Stabilizer	Type (link, linkless, frameless)	Link type - steel SAE 1090	
	Material & bar diameter	.72	.95

SUSPENSION – REAR

Type and description		Hotchkiss drive		
Drive and torque taken through		Rear springs		
Spring	Type	Semi-elliptical		
	Material	Spring steel SAE 5160, 5147, 5155		
	Size (length x width, coil design height & I.D.; bar length & dia.)	59 x 2.50		
	Spring rate (lb. per in.)	95	148	
	Rate at wheel (lb. per in.)	96	145	
	Mounting insulation type		Silent block bushing front – split type rear	
	If leaf	No. of leaves	Four	
	Shackle (comp. or tens.)	Compression		
Stabilizer	Type (link, linkless, frameless)	None	Link	
	Material	---	.50 Dia.	
Track bar type		None		

(a) Competition suspension package.

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MODEL 65 76

FRAME

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

Unitized Construction

BODY - MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	—
Type of finish (lacquer, enamel, other)		Enamel
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Veh. Ident. No., Location		Top of instrument panel on driver's side, inboard of "A" pillar.
Warranty Plate Location		Lock face of left door.
Engine No. location		Boss on front left side of cylinder block
Theft protection - type		Door locks, ignition key start, theft retarder, steering column locks steering and powertrain.
Vent window control method (crank, friction pivot)	Front	None
	Rear	Std. qtr.-crank type
Seat cushion type	Front	Formed wire
	Rear	Formed wire
	3rd seat	None
Seat back type	Front	Formed wire
	Rear	Formed wire
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Compound curved, one piece laminated plate
Side glass type (i.e., curved - tempered plate)		Curved, tempered sheet
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound curved, tempered plate, one piece
Windshield glass exposed surface area	1138	1127
Side glass exposed surface area	1100	1074
Backlight glass exposed surface area	913	513
Total glass exposed surface area	3151	2714

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MODEL ALL

CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

Power windows	Side windows	Yes
	Vent windows	—
	Backlight or tailgate	—
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		NA
Front seat head restrainer (R-L or both)		Opt.
Radios (specify type as well as availability)		Opt. push button AM, opt. push button AM/FM stereo, opt. AM radio stereosonic tape system
Car seat speaker		Opt. AM radio only
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Integrated with heater
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		NA ("C" pillar lights avail.) except convertible
Glove compartment lamp		Std.
Luggage compartment lamp		Opt.
Underhood lamp		Opt.
Courtesy lamp		Opt.
Map lamp		Opt. on Model 65
Auto. trans. quad. lamp		Std. w/optional auto. trans.
Cornering light lamp		NA
Tilt Steering Wheel		Opt.
Low Fuel Warning Lamp		Opt. (Standard on XR-7 Series)
Door Ajar Warning Lamp		Opt. (Standard on XR-7 Series)
Seat Belt Warning Lamp		Opt. with deluxe seatbelts (Std. on Convertibles and XR-7 Series)
Lights on Warning Lamp		Opt. (Standard on XR-7 Series)
Stg. Wheel Rim Blow Horn		Std. (Except Model 65A)
Park Brake Warning Lamp		Opt. (Standard on XR-7 Series)

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	25.13
		Lowest	—
	Tail	Highest	24.90
		Lowest	—
Sidemarker	Front	19.59	
	Rear	21.54	
Distance from C/L of car to center of bulb	Headlamp	Inside	17.10
		Outside *	23.64
	Tail	Inside	—
		Outside	23.14
	Directional	Front	20.34
		Rear	23.14

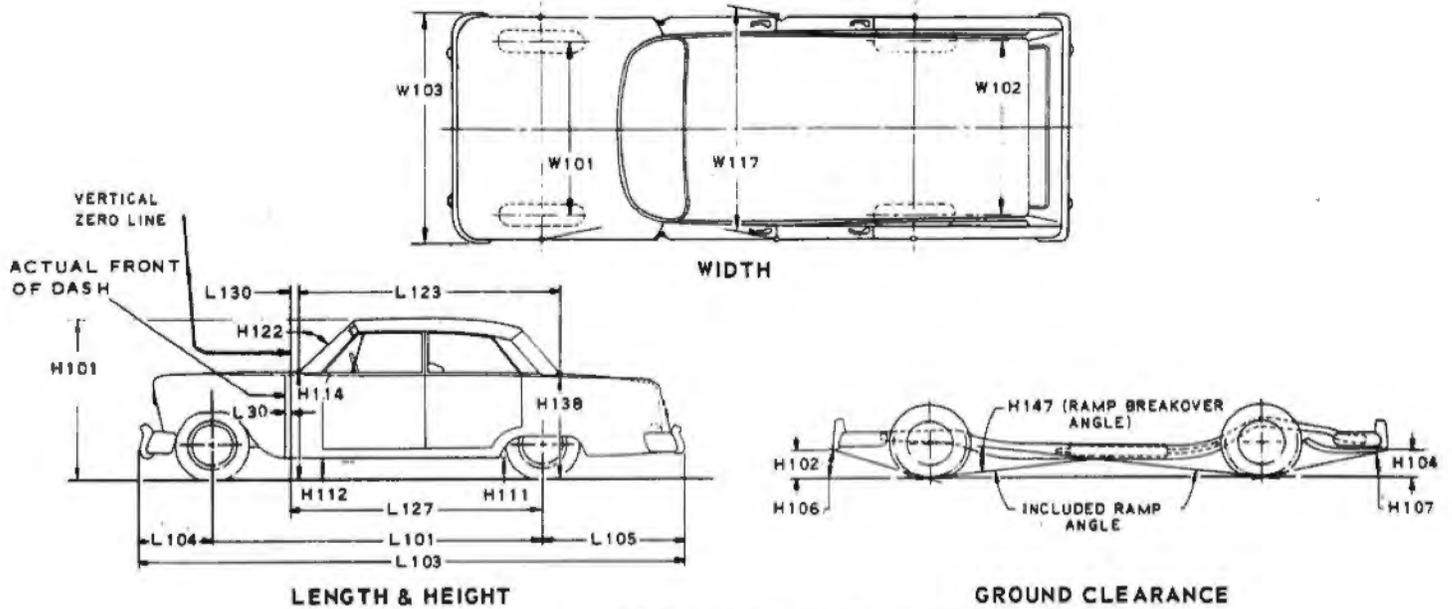
* If single headlamps are used enter here.

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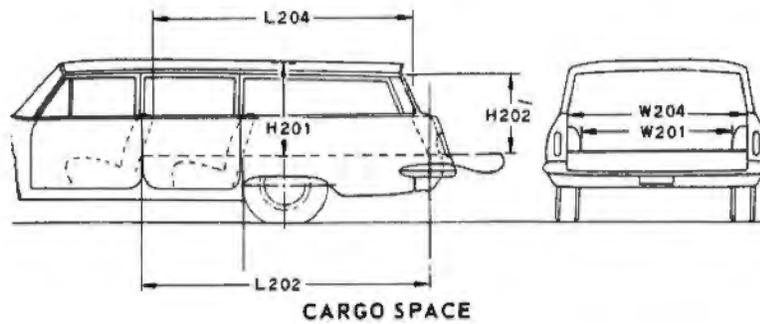
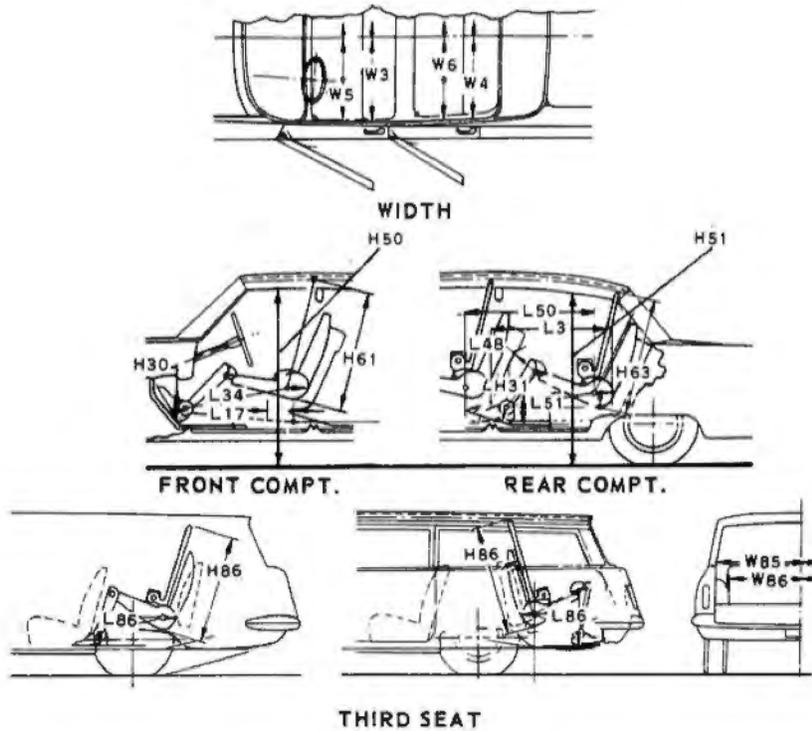
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouses at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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