

AMA Specifications—Passenger Car

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MANUFACTURER FORD MOTOR COMPANY	CAR NAME MONTEGO	
MAILING ADDRESS P. O. Box 2053 - Dearborn, Mich. 48121	MODEL YEAR 1970	ISSUED: 9-2-69 REVISED (•)

NOTES:

- The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - 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.

SERIES AND BODY MODELS

BODY CODE

MONTEGO

2-Door Hardtop
4-Door Sedan

65A
54A

MONTEGO MX

2-Door Hardtop
2-Door Hardtop
4-Door Sedan
4-Door Station Wagon

65B
65E*
54B
71C

MONTEGO MX BROUGHAM

2-Door Hardtop
4-Door Hardtop
4-Door Sedan
4-Door Station Wagon (Wood Grain)

65D
57D
54D
71A

CYCLONE

Cyclone 2 Dr. Hardtop
Cyclone Spoiler
Cyclone GT

65F
65G
65H

*Bucket Seats

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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.	54	57	65	71
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WIDTH

Track - Front	W101	60.5			
Track - Rear	W102	60.0			
Maximum overall car width	W103	77.3			75.4
Body width at No. 2 pillar	W117	74.2			

LENGTH

Body "O" to front of dash	L 30	0.0			
Wheelbase	L101	117.0			114.0
Overall car length	L103	209.9			211.8
Overhang - front	L104	42.7			
Overhang - rear	L105	50.2			55.1
Body upper structure length	L123	100.7	100.7	101.2	129.0
Body "O" line to $\mathbb{C}$ of rear wheel	L127	99.6	99.6	99.6	96.9
Body "O" line to w/s cowl point	L130	9.5			

HEIGHT

Passenger Distribution (front & rear)		2 + 3			
Trunk/Cargo load (lbs.)		-			
Overall height	H101	53.1	53.1	52.3	55.7
Cowl height	H114	36.5	36.5	36.5	37.8
Deck height	H138	37.2		37.1	-
Rocker panel - front	To ground	H112	7.4		8.7
	From front wheel $\mathbb{C}$				
Rocker panel - rear	To ground	H111	5.6		7.5
	From rear wheel $\mathbb{C}$				
Windshield slope angle	H122	53.7 ⁰			52.0 ⁰

GROUND CLEARANCE

Bumper to ground - front	H102	11.9	11.9	11.8	12.9
Bumper to ground - rear	H104	15.3	15.3	15.3	9.3
Angle of approach	H106				
Angle of departure	H107				
Ramp breakover angle	H147				
Min. running clearance (Specify)	H156				

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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.	54	57	65	71
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FRONT COMPARTMENT

Effective head room	H61	37.9	37.9	37.1	38.2
Max. eff. leg room — accelerator	L34	42.0			
H Point to Heel point	H30	9.3			
H Point travel	L17	5.0			
Shoulder room	W 3	57.5			
Hip room	W 5	59.0			
Upper body opening to ground	H50	47.8			49.9

REAR COMPARTMENT

H Point couple distance	L50	33.3	33.3	30.5	31.5
Effective head room	H63	36.8	36.8	36.2	39.0
Min. effective leg room	L51	35.9	35.9	33.0	34.4
H Point to Heel point	H31	11.3	11.3	10.7	11.6
Min. knee room	L48	1.3	1.3	-.7	-.3
Rear Compartment room	L 3	27.3	27.3	24.9	26.8
Shoulder room	W 4	57.6	57.6	56.7	58.0
Hip room	W 6	59.2	59.2	58.0	59.5
Upper body opening to ground	H51				

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	16.2			
Liftover height	H195	27.8	27.8	27.9	
Position of spare tire storage					
Method of holding lid open					

STATION WAGON — THIRD SEAT

Shoulder Room	W85				46.0
Hip room	W86				35.4
Effective leg room	L86				34.0
Effective head room	H86				37.0
Seat facing direction					Rear

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202				89.0
Cargo length at belt — front seat	L204				77.6
Cargo width — Wheelhouse	W201				42.6
Opening width at belt	W204				49.1
Maximum cargo height	H201				32.6
Rear opening height	H202				29.0
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2				85.2 cu. ft. (a)

(a) Additional Hidden Cargo Storage 8.0 cu. ft. 2 Seat Models.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)		
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		1	2	3
All Except 65 & 71	250	1V	9.0	155@ 4000	240@ 1600	Man. 3 Speed Automatic	3.00 2.79, 3.25	3.00	
71						Man. 3 Speed Automatic	3.00 3.25	3.00, 3.25	
All Except 65 & 71	302	2V	9.5	220@ 4600	300@ 2600	Man. 3 Speed Automatic	2.79 3.00, 3.25	3.00	
71						Man. 3 Speed Automatic	3.25 3.00	3.25, 3.00	
All Except 65F, G & 71	351	2V	9.5	250@ 4600	355@ 2600	Man. 3 Speed Automatic	3.00 3.25	3.00, 3.25	
71						Man. 4 Speed	2.75 3.00, 3.25	3.00, 3.25	
						Man. 3 Speed Automatic	3.00 3.25	3.00, 3.25	
All Except 65 F, G & 71	351	4V	11.0	300@ 5400	380@ 3400	Man. 3 Speed Automatic	3.00 3.25	3.00, 3.25	
71						Man. 4 Speed	3.25 3.00	3.25, 3.00	
						Man. 3 Speed	3.25 3.00	3.25, 3.00	
						Automatic	3.25 3.00	3.00, 3.25	
All Except 71	429 Thunderjet	4V	10.5	360@ 4600	480@ 2800	Man. 4 Speed Automatic	3.25 3.00, 3.50	3.00, 3.25	
71						Automatic	3.00 3.25, 3.50	3.00, 3.25	
Model 65	429 Cobra Jet (Non-Ram Air)	4V	11.3	370@ 5400	450@ 3400	Man. 4 Speed Automatic	3.25 3.00, 3.50	3.25, 3.00	
Model 65	429 Cobra Jet (Ram Air)	4V	11.3	370@ 5400	450@ 3400	Man. 4 Speed Automatic	3.25 3.50	3.25, 3.50	
Model 65	429 S. C. J. (Drag Pack)	4V	10.5	375@ 5600	450@ 4000	Man. 4 Speed Automatic		3.91, 4.30	

1. Standard
2. Optional
3. Locking

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MODEL CID 250- 1V 302-2V 351-2V 351-4V

ENGINE – GENERAL

Type, no. cyls., valve arr.	In-Line, 6, OHV	90°V, 8, OHV		
Bore and stroke (nominal)	3.682 x 3.91	4.002 x 3.00	4.002 x 3.50	
Piston displacement, cu. in.	250	302	351	
Bore spacing (C to C)	4.08	4.38		
No. system	L. Bank	5-6-7-8		
(front to rear)	R. Bank	1-2-3-4		
Firing order	1-5-3-6-2-4	1-5-4-2-6-3-7-8	1-3-7-2-6-5-4-8	
Compres. ratio (MAX)	9.0:1	9.5:1	9.5:1	11.0:1
Cylinder Head Material	Cast Iron			
Cylinder Block Material	Cast Iron			
Cyl. Sleeve-Wet, dry, none	None			
Number of	Front	Two		
mtg. points	Rear	One		
Engine installation angle	40°†	40°		
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$	32.5	51.2		
Publishing max. bhp* @ eng. RPM	155 @ 4000	220 @ 4600	250 @ 4600	300 @ 5400
Publishing max. torque* (lb. ft. @ RPM)	240 @ 1600	300 @ 2600	335 @ 2600	380 @ 3400
Recommended fuel regular – premium	Regular			Premium

ENGINE – PISTONS

Material			Aluminum Alloy with Steel Struts		
Description and finish			Autothermic, Slipper Skirt, Cam Ground, and Tin Plated		
Weight (piston only) oz.			17.42	21.16	21.51
Clearance (limits)	Top land		.022-.0308	.0304-.0408	.0240-.0316
	Skirt	Top	.0012-.0021 (a)	.0018-.0026 (a)	.0014-.0022 (a)
		Bottom	.0008-.0014	-	-
Ring groove depth	No. 1 ring		.1925-.1995	.202-.209	.199-.214
	No. 2 ring		.1925-.1995	.202-.209	.199-.214
	No. 3 ring		.1925-.1995	.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.

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MODEL CID 429-4V 429-CJ 429-SCJ

ENGINE – GENERAL

Type, no. cyls., valve arr.	90° V, 8 CYL., OHV		
Bore and stroke (nominal)	4.362 x 3.590		
Piston displacement, cu. in.	429		
Bore spacing (C to C)	4.90		
No. system	L. Bank	5-6-7-8	
(front to rear)	R. Bank	1-2-3-4	
Firing order	1-5-4-2-6-3-7-8		
Compres. ratio (MAX)	10.5:1	11.3:1	11.3:1
Cylinder Head Material	Cast Iron		
Cylinder Block Material	Cast Iron		
Cyl. Sleeve-Wet, dry, none	None		
Number of	Front	Two	
mtg. points	Rear	One	
Engine installation angle	30° 35'	40° 30'	
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower. 2.5}}$	60.83		
Publishing max. bhp* @ eng. RPM	360 @ 4600	370 @ 5400	375 @ 5600
Publishing max. torque * (lb. ft. @ RPM)	480 @ 2800	450 @ 3400	450 @ 3400
Recommended fuel regular - premium	Premium		

ENGINE – PISTONS

Material	Aluminum Alloy with Steel Struts		Aluminum Alloy
Description and finish	Cast, Autothermic, Slipper Skirt Cam Ground, Tin Plated		Extruded, Slipper Skirt, Cam Ground, Tin Plated.
Weight (piston only) oz.	28.46	28.46	28.46
Clearance (limits)	Top/land	.027-.0346	.026-.0356
	Skirt (a)	Top	.0014-.0022
		Bottom	.0023-.0030
Ring groove depth	No. 1 ring	.2305-.2375	.2300-.2380
	No. 2 ring	.2325-.2395	.2320-.2400
	No. 3 ring	.2005-.2075	.2000-.2080
	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.

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ALL MODELS

MODEL CID 250-1V 302-2V 351-2V-4V

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 - material, coating, etc.	#1 Cast Iron Alloy, Straight Face, Inside Beveled, Molybdenum Filled Groove. (a) #2 Cast Iron Alloy, Straight Face, Scraper Groove, Oxide Coated. (b)
	Width	#1 & #2 (.07-.078) #1 and #2 (.077-.078)
	Gap	.008-.016 .010-.020
Oil	Description - material, coating, etc.	Multi-Piece: Two Rails and One Spacer-Expander. Rails: Steel (SAE 1070) Chrome Plated, Black-Oxide Coated. Spacer-Expander: Steel (AISI-C-1075) 302, Blued. (c)
	Width	.187 .1845
	Gap	.015-.055 Rails Only
Expanders		Part of Oil Ring Assembly

ENGINE — PISTON PINS

Material		Steel (SAE 5015) Heat Treated
Length		3.040-.3.010
Diameter		.9124-.9118 Select Fit
Type	Locked in rod, in piston, floating, etc.	Press Fit in Rod
	Bush- ing	In rod or piston
	Material	None
Clearance	In piston	.0003-.0005 .0002-.0004 .0003-.0005
	In rod	Press Fit
Direction & amount offset in piston		Right .090 Right .0625

ENGINE — CONNECTING RODS

Material		Forged Steel (SAE 1041-H)
Weight (oz.)		20.88 19.86 27.49
Length (center to center)		5.88 5.09 5.78
Bearing	Material & Type	(d) Plated Copper-Lead Alloy on Steel Back (Replaceable)
	Overall length	.790-.810 .706-.726 .706-.726
	Clearance (limits)	.0008-.0024 .0008-.0026 .0008-.0026
	End play	.0035-.0105 .010-.020 (2 Rods) .010-.020 (2 Rods)

(a) 302 and 351 #1 Ring, Cast Iron Alloy, Barrel Face, Moly. Filled Groove.

(b) 351-CID Same Except Tapered Face, Phosphate Coated, 302 Phosphate Coated.

(c) 351-CID Rustless Steel (SAE-30201).

(d) 250-CID Unplated Copper-Lead Alloy on Steel Back (Replaceable).

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MODEL CID 429-4V 429-4V-CJ 429-4V-SCJ

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 - material, coating, etc.	#1 Cast Iron Alloy, Inside Bevel, Straight Face, Molybdenum Filled Groove. #2 Cast Iron Alloy, Straight Face, Scraper Groove, Phosphate Coated
	Width	#1 and #2 (.078-.077)
	Gap	.010-.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: Rustless Steel (SAE-30201)
	Width	.1875
	Gap	.010-.035 Rails Only
Expanders		Part of Oil Ring Assembly.

ENGINE—PISTON PINS

Material		Steel SAE-5015
Length		3.31 - 3.29
Diameter		1.040 - 1.0403
Type	Locked in rod, in piston, floating, etc.	Pressed Fit in Rod
	Bush- ing	In rod or piston
	Material	None
Clearance	In piston	.0002 - .0004
	In rod	Press Fit
Direction & amount offset in piston		Right .0625

ENGINE—CONNECTING RODS

Material		Forged Steel (SAE-1041-H)
Weight (oz.)		27.83
Length (center to center)		6.605
Bearing	Material & Type	Plated Copper-Lead Alloy on Steel Back. (Replaceable Inserts)
	Overall length	.861
	Clearance (limits)	.0008-.0026
	End play	.010-.020 Two Rods

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MODEL CID 250-1V 302-2V 351-2V-4V

ENGINE – CRANKSHAFT

Material			Nodular Cast Iron, Precision Molded		
Vibration damper type			Tuned, Elastic Suspended, Inertia Member		
End thrust taken by bearing (No.)			Five	Three	
Crankshaft end play			.004-.008	.004-.008	.004-.010
Main bearing	Material & type		Plated Copper-Lead Alloy on Steel Back (a) (Replaceable Insert) (c)		
	Clearance		.0005-.0022	.0005-.0024 (b)	.0009-.0026
	Journal dia. and bearing overall length	No. 1	2.3986 x .965	2.2486 x .880	2.7488 x .875
		No. 2	2.3986 x .965	2.2486 x .880	2.7488 x .875
		No. 3	2.3986 x .965	2.2486 x 1.132	2.7488 x 1.117
		No. 4	2.3986 x .965	2.2486 x .880	2.7488 x .875
		No. 5	2.3986 x 1.194	2.2486 x .880	2.7488 x .875
		No. 6	2.3986 x .965	-	-
		No. 7	2.3986 x .965	-	-
Dir. & amt. cyl. offset		None	R.B. Leads .84	R.B. Leads .84	
Crankpin journal diameter			2.1232	2.1232	2.3107

ENGINE – CAMSHAFT

Location		In Block		
Material		Special Alloy Iron, Precision Molded, Induction Hardened, Phosphate Coated		
Bearings	Material	SAE 15 Lead Base Babbitt on SAE 1010 Steel Back (Replaceable)		
	Number	Four	Five	Five
Type of Drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Sintered Iron (Steel Optional)	
	Camshaft gear or sprocket material		Cast Iron	Aluminum Die Cast Body with Molded Nylon Teeth
	Timing chain	No. of links	56	58
		Width	1.113 (1.013 Alternate)	.637 (.750 Alternate)
		Pitch	.375	.375

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard		
Valve rotator, type (intake, exhaust)		Ford Free Turn Intake & Exhaust	Two Piece	None
Rocker ratio		1.50	1.61	1.73
Operating tappet clearance (indicate hot or cold)	Intake	Zero(.095-.195)(d)	Zero(.093-.193)(d)(e) (.067-.167)(d)(f)	Zero(.074-.174) 2V (.067-.167) 4V
	Exhaust	Zero(.095-.195)(d)	Zero(.093-.193)(d)(e) (.067-.167)(d)(f)	Zero(.074-.174) 2V (.067-.167) 4V

(Continued)

- (a) SAE 15 Lead Base Babbitt on SAE 1010 Steel Back (Replaceable)
- (b) #1 Main Bearing .0001-.0020
- (c) 351-CID Same Except Unplated Copper-Lead Alloy.
- (d) Tappets Collapsed.
- (e) Manual Transmission.
- (f) Automatic Transmission.

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ENGINE – CRANKSHAFT

Material		Nodular Cast Iron Alloy, Precision Molded (a)	
Vibration damper type		Tuned, Elastic Suspended, Inertia Member	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.004-.008	
Main bearing	Material & type		(b) Plated Copper-Lead Alloy on Steel Back (Replaceable Insert)
	Clearance		.0005-.0025
	Journal dia. and bearing overall length	No. 1	2.9998 x .945
		No. 2	2.9998 x .945
		No. 3	2.9998 x 1.119
		No. 4	2.9998 x .945
		No. 5	2.9998 x .945
		No. 6	-
		No. 7	-
Dir. & amt. cyl. offset		Right Bank Leads 1.000	
Crankpin journal diameter		2.4992-2.5000	

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 or Steel
	Camshaft gear or sprocket material		Aluminum Die Cast Body with Molded Nylon Teeth
	Timing chain	No. of links	52
		Width	.885
		Pitch	.50

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard	Mechanical
Valve rotator, type (intake, exhaust)		None	One Piece Retainer
Rocker ratio		1.75:1	1.73:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero (.075-.175)(c)	.017-.020 Hot
	Exhaust	Zero (.075-.175)(c)	.017-.020 Hot

(Continued)

- (a) Cobra Jet 90° Nodularity.
- (b) 429-4V, Unplated Copper-Lead Alloy.
- (c) Tappets Collapsed.

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ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	10	16	12	18
		Closes (°ABC)	62	70	66	70
		Duration - deg.	252	266	258	268
	Exhaust	Opens (°BBC)	49	44	66	81
		Closes (°ATC)	25	20	20	19
		Duration - deg.	254	244	266	280
	Valve opening overlap		35	36	32	37
	Material		Steel (SAE-1047), Aluminized Head, Chrome Plated Stem & Foot (a)(b)			
	Overall length		4.26	5.050	5.231	
	Actual overall head dia.		1.660-1.642	1.788-1.773	2.046-2.036	2.195-2.185
Intake	Angle of seat & face		Seat 44° 30' to 45° Face 45° 30' to 45° 45'			
	Seat insert material		None			
	Stem diameter		.3107-.3100	.3423-.3416	.3423-.3416	
	Stem to guide clearance		.0008-.0025	.0010-.0027	.0010-.0027	
	Lift @ zero lash		.368	.368	.400	.430
	Outer spring press. & length	Valve closed (lb. @ in.)	51-57 @ 1.59	76-84 @ 1.69	76-84 @ 1.82	85-95 @ 1.82
		Valve open (lb. @ in.)	142-158 @ 1.22	190-210 @ 1.31	199-221 @ 1.42	244-272 @ 1.39
	Inner spring press. & length	Valve closed (lb. @ in.)	None	None	Damper Only	
		Valve open (lb. @ in.)	None	None	Damper Only	
Exhaust	Material		Cast Austenitic Steel, Aluminized Head, Chrome Plate Stem & Foot (a)(c)			
	Overall length		4.26	4.990(+06 Cap)	5.050	
	Actual overall head dia.		1.399-1.381	1.457-1.442	1.6595-1.6495	1.7145-1.7045
	Angle of seat & face		Seat 44° 30' to 45° Face 45° 30' to 45° 45'			
	Seat insert material		None			
	Stem diameter		.3105-.3098	.3418-.3411	.3418-.3411	
	Stem to guide clearance		.0010-.0027	.0015-.0032	.0015-.0032	
	Lift @ zero lash		.368	.380	.400	.450
	Outer spring press. & length	Valve closed (lb. @ in.)	51-57 @ 1.59	76-84 @ 1.69	76-84 @ 1.82	85-95 @ 1.82
		Valve open (lb. @ in.)	142-158 @ 1.22	190-210 @ 1.31	199-221 @ 1.42	251-279 @ 1.37
	Inner spring press. & length	Valve closed (lb. @ in.)	None	None	None	Damper Only
		Valve open (lb. @ in.)	None	None	None	Damper Only

ENGINE – LUBRICATION SYSTEM

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

(Continued)

(a) 250 - CID NO Chrome Plate.

(b) 351 - CID SIL-Chrome, Chrome Plated Stem 4V, No Chrome 2V.

(c) 351 - CID 21-4N, Aluminized Head, Chrome Plated Stem 4V, No Chrome 2V

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (•)

MODEL CID 429-4V 429-4V-CJ 429-4V-SCJ

ENGINE—VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	32°	40° 30'
		Closes (°ABC)	60°	70°	79° 30'
		Duration - deg.	256°	282°	300°
	Exhaust	Opens (°BBC)	70°	90°	88° 30'
		Closes (°ATC)	20°	26°	31° 30'
		Duration - deg.	270°	296°	300°
	Valve opening overlap		36°	58°	72°
Intake	Material		#1 SIL-Chrome, Hardened Face & foot, Chrome Plated Stem		
	Overall length		5.288	5.275	
	Actual overall head dia.		2.090-2.075	2.248-2.242	
	Angle of seat & face		(a)	Seat 59° 30' to 60°, Face 60° 30' to 60° 45'	
	Seat insert material		None		
	Stem diameter		.3423-.3416		
	Stem to guide clearance		.0010-.0027		
	Lift (@ zero lash)		.442	.500	.515
	Outer spring press. & length	Valve closed (lb.@ in.)	76-84 @ 1.81	87.4-96.6 @ 1.82	
		Valve open (lb.@ in.)	240-266 @ 1.33	299.3-330.7 @ 1.32	
	Inner spring press. & length	Valve closed (lb.@ in.)	None		
		Valve open (lb.@ in.)	None		
Exhaust	Material		21-4N, Aluminized Head, Welded & Hardened Tip, Chrome Stem.		
	Overall length		5.080	5.068	
	Actual overall head dia.		1.661-1.646	1.728-1.722	
	Angle of seat & face		Seat 44° 30' to 45° Face 45° 30' to 45° 45'		
	Seat insert material		None		
	Stem diameter		.3423-.3416		
	Stem to guide clearance		.0010-.0027		
	Lift (@ zero lash)		.486	.500	.515
	Outer spring press. & length	Valve closed (lb.@ in.)	76-84 @ 1.81	87.4-96.6 @ 1.82	
		Valve open (lb.@ in.)	240-266 @ 1.33	299.3-330.7 @ 1.32	
	Inner spring press. & length	Valve closed (lb.@ in.)	None		
		Valve open (lb.@ in.)	None		

ENGINE—LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Oil Mist
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Directed Spray
	Cylinder walls	Oil Mist & Spray

(Continued)

(a) (429-4V) Seat 44° 30' to 45°, Face 45° 30' to 45° 45'

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (•)

ALL MODELS

MODEL CID 250-1V 302-2V 351-2V 351-4V

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor		
Normal oil pressure (lb. engine rpm)	35-55 psi @ 2000 RPM		50-70 psi @ 2000 RPM
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 oil 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		+90°F & above - SAE 40
	0° and above - SAE 10W40		+32°F to +90°F - SAE 30
	-10°F to +90°F - SAE 10W30		+10°F to +32°F - SAE 20-20W
	Below -10°F (-32° Max) SAE 50W30		-10°F to +10°F - SAE 10W
Engine Service Reqmt. (MM, MS, etc.)	MS		

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single		Dual (a)	
Muffler No. & type (reverse flow, straight thru, separate resonator)		One Reverse Flow 4.06 x 10.5 x 21.7			
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00x.084 Lam	1.88x.084 Lam	2.00x.084 Lam	2.25x.084 Lam
	Main	2.00x.075 Solid		2.25x.075 Solid	2.25x.075 Solid
Tail pipe dia. (O.D. & wall thickness)		2.00x.060 Solid		2.25x.060 Solid	2.00x.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	Carburetor Body (Primaries-4V)
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner	
	Flame arrestor (screen, check valve, other)	Emission Valve and Air Cleaner Filter	

(a) Single on Station Wagon & Ranchero Common with 351-2V.

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (•)

MODEL 429-4V 429-CJ 429-SCJ

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor	Gear
Normal oil pressure (lb. engine rpm)	35-75 @ 2000	120 @ 2000
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(a)	6(a)
Oil grade recommended (SAE viscosity and temperature range)	Multi-Viscosity (b) +32°F & Above - SAE 20W-40 0° and Above - SAE 10W-40 -10°F to +90°F - SAE 10W-30 Below -10°F (-32°F MAX) -SAE5W-30	
Engine Service Reqmt. (MM, MS, etc.)	MS (Ford Spec. M2C-101-B)	

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual with Balance Tube
Muffler No. & type (reverse flow, straight thru, separate resonator)		2 Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.25 O.D.X.084 Wall Laminated (c)
	Main	
Tail pipe dia. (O.D. & wall thickness)		2.25 O.D.X.060 Wall 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, A.C., 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	Carburetor Throttle Body and/or Carburetor Air Cleaner.
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner	
	Flame arrestor (screen, check valve, other)	Emission Valve and Air Cleaner Filter.	

(a) Add One Quart with Filter Replacement.

(b) SAE 10W40 Recommended for Normal Use.

(c) From Balance Tube to Muffler, 2.25 O.D.X.070 Wall.

AMA Specifications—Passenger Car

MAKE OF CAR	MONTEGO	MODEL YEAR	1970	DATE ISSUED	9-2-69	REVISED (a)
TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC		
MODEL	CID	250-1V	250-1V	302-2V	302-2V	

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)						
	Carburetor	Make	Carter		Autolite		
Model -9510-		DOZF-C	DOZF-F(a)	DOAF-C	DOAF-D(b)		
Barrel size		1.5625	1.5625	1.564	1.564		
(C) Idle speed		Drive	-	550	-	575	
		Neutral	750	-	700	-	
Idle A/F mixture		.085 @ 11.5CFM	.088 @ 9.5CFM				
Distributor	Aux. Adv. Systems (type)	(See Page 13) Centrifugal and Vacuum					
	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 and 11A					
Exhaust System		See Page 8					
Vacuum Retard;		-2 @ 4.5 - 8.5		-2 @ 4 - 8	-2 @ 5 - 9		
Crankshaft Degrees		-8 @ 6.5 - 10.6		-8 @ 6 - 10	-4 @ 6 - 10		
At Inches of Mercury		-(10-12) @ 12		-(10-12) @ 11	-(5-7) @ 11		

(a) DOZF - 9510 -D with Air Cond. (b) DOAF-9510-U with Air Cond.

(c) Lights on-Non A/C; Special Settings Required with Air Cond.

AMA Specifications—Passenger Car

MAKE OF CAR	MONTEGO	MODEL YEAR	1970	DATE ISSUED	9-2-69	REVISED (•)
TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC		
MODEL	CID	250-1V	250-1V	302-2V	302-2V	

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)					
Carburetor	Make	Carter		Autolite		
	Model -9510-	DOZF-C	DOZF-F(a)	DOAF-C	DOAF-D(b)	
	Barrel size	1.5625	1.5625	1.564	1.564	
	Idle speed (C)	Drive	-	550	-	575
		Neutral	750	-	700	-
	Idle A/F mixture	.085 @ 11.5CFM	.088 @ 9.5CFM			
Distributor	Aux. Adv. Systems (type)	(See Page 13) Centrifugal and Vacuum				
	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 and 11A				
Exhaust System		See Page 8				
Vacuum Retard;		-2 @ 4.5 - 8.5		-2 @ 4 - 8	-2 @ 5 - 9	
Crankshaft Degrees		-8 @ 6.5 - 10.6		-8 @ 6 - 10	-4 @ 6 - 10	
At Inches of Mercury		-(10-12) @ 12		-(10-12) @ 11	-(5-7) @ 11	

(a) DOZF - 9510 -D with Air Cond. (b) DOAF-9510-U with Air Cond.

(c) Lights on-Non A/C; Special Settings Required with Air Cond.

AMA Specifications—Passenger Car

MAKE OF CAR	MONTEGO	MODEL YEAR	1970	DATE ISSUED	9-2-69	REVISED (•)
TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC		
MODEL	CID	351-2V	351-2V	351-4V	351-4V	

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)				
Carburetor	Make	Autolite			
	Model -9510-	DOOF-K	DOOF-L(a)	DOOF-AB	DOOF-AC(b)
	Barrel size	1.689	1.689	1.565 PR1., 1.690 Secondary	
	(c) Drive	-	600	-	600
	Idle speed	750	-	700	-
	Idle A/F mixture	.0776 @ 19 CFM	.088 @ 15CFM	.076 @ 20CFM	.082 @ 16CFM
Aux. Adv. Systems (type)		(See Page 13) Centrifugal and Vacuum			
Distributor	Make				
	Model				
	Cent'gal 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		60°BTC @ Idle (Vacuum Disconnected)			
Cooling System		See Page 11A			
Exhaust System		See Page 8			

Vacuum Retard;	-2 @ 5.5-9.5	None	-2 @ 6 - 10	-2 @ 6 - 10
Crankshaft Degrees	-8 @ 8 - 12		-8 @ -8 -12	-4 @ 6.5 -10.5
At Inches of Mercury	-(10-12) @ 13		-(10-12) @ 12.5	-(5-7) @ 11
(a) DOOF-9510-M with Air Cond. (b) DOOF-9510- AD with Air Cond.				
(c) Lights On-Non A/C; Special Settings Required with Air Cond.				

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (a)

TRANSMISSION MANUAL AUTOMATIC

MODEL CID 429-4V 429-4V

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)			
Carburetor	Make	Autolite		
	Model	DOAF-9510-AL	DOAF-9510-AM	
	Barrel size	1.565 Primary	1.690 Secondary	
	(a) Idle speed	Drive	-	600
		Neutral	700	-
	Idle A/F mixture	.079 @ 19.0 CFM	.080 @ 20.0 CFM	
Distributor	Aux. Adv. Systems (type)	(See Page 13) Centrifugal and Vacuum		
	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 11B		
Exhaust System		See Page 8A		

Vacuum Retard;	-2 @ 5 - 9	-2 @ 4.5 - 8.5
Crankshaft Degrees	-8 @ 7 - 11	-8 @ 7.5 - 11.5
At Inches of Mercury	-(10-12) @ 12	-(10-12) @ 12.5

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

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

TRANSMISSION MANUAL AUTOMATIC MANUAL AUTOMATIC

MODEL CID 429-CJ 429-CJ 429-SCJ 429-SCJ

ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Engine, Carburetor and Distributor Modifications		Air Injection, Engine, Carb., & Dist. Modifications.	
Air Injection Pump	Type		None		Positive Displacement	
	Displacement				19.3 Cu. In. Per Revolution	
	Drive ratio				1.04:1	
	Drive type				V-Belt and Pulley	
	Relief valve (type)				Poppet-Pressure Sensitive	
	Filter (describe)				Centrifugal	
Air Injection System	Air distribution (head, manifold, etc.)		None		Internal Manifold	
	Point of entry				Rifle, Drilled Head	
	Injection tube I.D.				Exhaust Ports in Cyl. Heads	
	Check valve type				.281	
	Backfire protection (type)				Poppet-Spring Loaded	
Carburetor	Make		Rochester (720 CFM)		Holley (780 CFM)	
	Model -9519-		DOOF-A (a)	DOOF-B(b)	DOOF-N	DOOF-R
	Barrel size		1.38 Primary	2.25 Secondary	1.687 P. & S.	1.687 P. & S.
	(C) Idle speed	Drive	-	650	-	650
		Neutral	700	-	700	-
		Idle A/F mixture				
Distributor	Aux. Adv. Systems (type)		(See Page 13)		Centrifugal and Vacuum	
	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 Venturi			
Timing - Crank degrees @ rpm			10° BTC @ Idle (Vacuum Disconnected)			
Cooling System			See Page 11B Hot Idle Compensator			
Exhaust System			None See Page 8			

Vacuum Retard;	-2 @ 4 - 8	-2 @ 5 - 9	Same as Cobra Jet
Crankshaft Degrees	-8 @ 7.5 - 11.5	-8 @ 7 - 11	
At Inches of Mercury	-(10-12) @ 12.5	-(10-12) 12	

(a) DOOF-9510-F with Air Cond. (b) DOOF-9510-E with Air Cond.

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

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL CID 250-1V 302-2V 351-2V-4V 429-4V

ENGINE - FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor (Downdraft)			
Fuel Tank	Refill capacity (U.S. gals.)(d)		22 18 with Evaporative Emission Control System			
	Filler location		Left Hand Rear Quarter Panel			
Fuel Pump	Type (elec. or mech.)		Mechanical			
	Locations		Left Side of Engine			
	Pressure range		4.5 - 5.5		5.5 - 6.5(c)	
Vacuum booster (std., optional, none)			None			
Fuel Filter	Type		#1 Saran Plastic		#2 Nylon and Monel Cloth	
	Locations		#1 in Fuel Tank (Permanent)		#2 In-Line at Carburetor	
Carburetor	Choke type		Automatic			
	Intake manifold heat control (exhaust or water)		Hot and Cold Air Supply		Exhaust (CJ)	
			Water Heated Carburetor Spacer (a)		Crossover(SCJ)	
	Air cleaner type	Standard	Dry-Replaceable Element			
		Optional	None			
	Idle speed (spec. neutral or drive)	Manual	700	700	750(2V)800(4V)	700 (800CJ)
		Automatic	550	575	600	600 (650CJ)
(b)		Idle A/F mix.	See Page 9-9A-9B-9C			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
				-9510-		
All	250	Manual	Carter	DOZF-C	One-1V	1.5625
Non-A/C	250	Automatic	Carter	DOZF-F	One-1V	1.5625
With A/C	250	Automatic	Carter	DOZF-D	One-1V	1.5625
All	302	Manual	Autolite	DOAE-C	One-2V	1.564
Non-A/C	302	Automatic	Autolite	DOAF-D	One-2V	1.564
With A/C	302	Automatic	Autolite	DOAF-U	One-2V	1.564
All	351	Manual	Autolite	DOOF-K	One-2V	1.689
Non-A/C	351	Automatic	Autolite	DOOF-L	One-2V	1.689
With A/C	351	Automatic	Autolite	DOOF-M	One-2V	1.689
All	351	Manual	Autolite	DOOF-AB	One-4V	1.565 Pri.
Non-A/C	351	Automatic	Autolite	DOOF-AC	One-4V	1.690 Sec.
With A/C	351	Automatic	Autolite	DOOF-AD	One-4V	1.690 Sec.
All	429	Manual	Autolite	DOAF-AL	One-4V	1.565 Pri.
All	429	Automatic	Autolite	DOAF-AM	One-4V	1.690 Sec.
CJ Non-A/C	429	Manual	Rochester	DOOF-A	One-4V	1.38 Pri.
CJ Non-A/C	429	Automatic	Rochester	DOOF-B	One-4V	2.25 Sec.
CJ with A/C	429	Manual	Rochester	DOOF-F	One-4V	1.38 Pri.
CJ with A/C	429	Automatic	Rochester	DOOF-E	One-4V	2.25 Sec.
Super Cobra Jet	429	Manual	Holley	DOOF-N	One-4V	1.687 P. & S.
Super Cobra Jet	429	Automatic	Holley	DOOF-R	One-4V	1.687 P. & S.

(a) Not Available on 250-1V or 351-2V-4V

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

(c) CJ & SCJ 6.8-8.8

(d) 19 and 17 for Station Wagons

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL CID 250-1V

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°F, Full Open 212°F (Alt. 196°-203°F, Full Open 220°)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM @ 1000 pump rpm	11		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Double Row, Sealed, Ball and Ball Bearings		
By-pass recirculation type (inter., ext.)		Internal		
Radiator core type (cellular, tube and fin, other)		Cross-Flow, Tube and Slit Fin		
Cooling system capacity	With heater (qt.)	11.4		
	Without heater (qt.)	10.4		
	Opt. equipment-specify (qt.)	11.4 with 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	1.75 @ Radiator, 1.87 @ Water Pump	
	Upper	Number and type (molded, straight)	One, Molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	Standard	
Cooling Package		Air Conditioning		
Fan	Number of blades & spacing	4 Uneven	6 Uneven	
	Diameter	17.5 x 1.8	17.0 x 1.75	
	Ratio-fan to crankshaft rev.	1.04:1	1.18:1	
	Fan cutout type	None	Thermo-Modulated	
	Bearing type	Sealed, Ball and Ball: (Water Pump Bearing)		
*Drive belts (indicate belt used by letter)	Arrangement	1 or 1 and 3	4	3 and 4
	Generator or alternator	A	C	C
	Water Pump	A	C	C
	Power Steering	B		B
	Air Conditioning		C	C
	Crankshaft	A B	C	C B
	Idler or Air Pump			

* Drive Belt Dimensions	A	B	# C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°								
Nominal length (SAE)	42.50	45.25	48.25								
Width	15/32	15/32	15/32								

1. Standard Cooling 2. Extra Cooling 3. Power Steering 4. Air Conditioning
Dual Belts (A) Thermo-Modulated

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)MODEL 302-2V 351-2V-4V

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° F, Full Open 212° F								
Water pump	Type (centrifugal, other)	Centrifugal								
	GPM @ 1000 pump rpm	14	13							
	Number of pumps	One	One							
	Drive (V-belt, other)	V-Belt								
	Bearing type	Double Row, Sealed, Ball and Roller Bearing								
By-pass recirculation type (inter., ext.)		External		Internal Controlled						
Radiator core type (cellular, tube and fin, other)		Cross-Flow Tube and Slit Fin								
Cooling system capacity	With heater (qt.)	15.2	15.4							
	Without heater (qt.)	14.2	14.4							
	Opt. equipment-specify (qt.)	15.2 with E/C or A/C	15.8 with E/C or 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	1.75							
	Upper	Number and type (molded, straight)	One, Molded							
		Inside diameter	1.50							
	By-pass	Number and type (molded, straight)	One Molded	None						
		Inside diameter	.615	-						
Fan	Number of blades & spacing		4 Uneven	5 Uneven	4 Uneven	5 Uneven				
	Diameter		17.5 x 2	17.56 x 2.4	17.5 x 2	18.00 x 2.4				
	Ratio-fan to crankshaft rev.		.96:1	1.13:1	.96:1	1.13:1				
	Fan cutout type		None	Flex Blade	None	Flex Blade				
	Bearing type		Double Row, Sealed, Ball & Roller (Water Pump Bearing)							
*Drive belts (indicate belt used by letter)	Fan Arrangement		1or2	1or2&3	4	3&4	1or2	1or2&3	4	3 & 4
	Generator or alternator		A	B	B	B	A	B	B	B
	Water Pump		A	C	D	E	A	G	D	H
	Power Steering			C		E		G		H
	Air Conditioning				F	F				F
	Crankshaft		A	BC	BDF	BEF	A	B G	BDF	BHF
	Idler				DF	F			DF	F

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°	36°			
Nominal length (SAE)	42.50	39.00	51.50	46.75	50.50	55.75	52.25	51.25			
Width	15/32	15/32	1/2	1/2	1/2	1/2	1/2	1/2			

1. Standard Cooling 2. Extra Cooling 3. Power Steering 4. Air Conditioning

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (•)

MODEL 429-4V 429-CJ 429-SCJ

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure				
Radiator cap relief valve pressure	12-16 PSI				
Circulation thermostat	Type (choke, bypass)	Poppet Valve with External By-Pass			
	Starts to open at (°F)	188°-195°F, Fully Open 212°F			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	23			
	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Double Row, Sealed, Ball and Ball Bearings			
By-pass recirculation type (inter., ext.)		External			
Radiator core type (cellular, tube and fin, other)		Cross-Flow, Tube and Slit Fin			
Cooling system capacity	With heater (qt.)	19.0	19.6	19.6	19.6
	Without heater (qt.)	18.0	18.6	18.6	18.6
	Opt. equipment-specify (qt.)	19.0 with A/C	19.6 with A/C	None	None
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, 1.50 at Water Outlet (Engine)		
	By-pass	Number and type. (molded, straight)	One, Straight		
		Inside diameter	.615		
Fan	Number of blades & spacing	4 Uneven	7 Uneven	7 Uneven	7 Uneven
	Diameter	19.0 x 1.75	19.0 x 2.25	19.0 x 2.25	19.0 x 2.25
	Ratio-fan to crankshaft rev.	.96:1	1.25:1	.96:1	1.10:1
	Fan cutout type	None	(A)	Flex Blade	Flex Blade
	Bearing type			Flex Blade	Flex Blade
* Drive belts (indicate belt used by letter)	Fan Arrangement	1or2 1or2&3	3and4	1or2 1or2&3	3and4
	Generator or alternator	A A	A	A A	A
	Water Pump	B C	D E	B C	F G
	Power Steering		D	C	F
	Air Conditioning		E		G
	Crankshaft	A B A C	A D E	A B A C	A F G
	(Idler) Airpump	(B)		(B)	(B) H H

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°	36°			
Nominal length (SAE)	34.75	46.00	53.00	53.50	56.00	52.25	54.75	35.00			
Width	15/32	1/2	1/2	1/2	1/2	1/2	1/2	3/8			

1. Standard Cooling 2. Extra Cooling 3. Power Steering
4. Air Conditioning

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (a)

MODEL CID 250-1V | 302-2V | 351-2V-4V | 429-4V | 429-CJ-SCJ

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model -10655-		Autolite C9AF-A (a)		C9AF-D
	Voltage Rtg. & Total Plates		12V, 54 Plates		12V, 78 Plates
	SAE Designation & Amp. Hr. Rtg.		17 MIA, 45 Amp. Hr.		17H3A, 80A.H.
	Location		Right Front Engine Compartment		
	Terminal grounded		Negative		
Generator or Alternator	Make		Autolite (a)		
	Model -10300-		D0ZF-B	D0AF-G(b)	D0ZF-A
	Type and rating		3 Phase, Full Wave Bridge Rectified, Self Limiting		
Regulator	Output at engine idle (neutral)				
	Ratio-Gen. to Cr/s rev.		2.60:1	2.5	2.02
	Make		Autolite		
	Model		C8AF-10316-A (C8TF-10316-A with 55 Amp. + Alternators)		
	Type		Two Unit, Voltage Control and Field Relay		
	Cutout relay	Closing voltage generator rpm	2.5-4.0 Volts at 75 ⁰ F		
		Reverse current to open	Not Applicable		
	Regulated	Voltage	13.5-15.3 @ 50 ⁰ -125 ⁰ F On Lower Contacts (Shorting Stage)		
		Current	Not Applicable		
	Voltage test conditions	Temperature	75 ⁰ F		
		Load	5 Amps.		
		Other	-		

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make (Autolite)		All Trans.	Man. Trans.	Man. Trans.	All Trans.
	Model -11001-		D0AF-B	D0AF-C (c)	D0AF-C (c)	C9AF-A
	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	9			
		Flywheel				
		Manual	157	164	164	164
		Auto.	157	157	164	164
	Flywheel tooth face width	Manual	.365			
		Auto.	.365			

(a) For All Other Applications See Page 12A.

(b) D0ZF-10300-B with Power Steering.

(c) 302/351 Auto. Trans.: D0AF-B

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL _____

BATTERY APPLICATIONS (-10655-)

<u>Engine — CID</u>	<u>Transmission</u>	<u>Air Cond.</u>	<u>Standard</u>	<u>Optional</u>
250-6	Man. & Auto.	#	C9AF-A(45AH)	70AH
302-8	Man. & Auto.	#	C9AF-A(45AH)	70AH
351-2V	Manual	#	C9AF-A(45AH)	70AH
351-2V	Automatic	#	C9AF-B(55AH)	C9AF-C(70AH)
351-4V-GT	Man. & Auto.	#	C9AF-C(70AH)	None
429-4V	Man. & Auto.	#	C9AF-D(80AH)	None
429-CJ	Man. & Auto.	#	C9AF-D(80AH)	None

#With or Without Air Conditioning.

ALTERNATOR APPLICATIONS (-10300-)

<u>Engine — CID</u>	<u>Standard</u>	<u>Ratio</u>	<u>Air Conditioned</u>		<u>Ratio</u>
			<u>No P/S</u>	<u>With P/S</u>	
250-6	D0ZF-B (38A)	2.6	D0AF-H (55A)	D0AF-H (55A)	2.6
302, 351-8	D0AF-G (42A)(a)	2.5	D0SF-A (55A)	D0SF-A (55A)	3.0
302-351	D0ZF-B (38A)	3.0	D0SF-A (55A)	D0SF-A (55A)	3.0
429-4V	D0ZF-B (38A)	3.0	D0SF-A (55A)	D0SF-A (55A)	3.0
429-CJ	D0ZF-A (55A)	2.02	D0ZF-A (55A)	D0ZF-A (55A)	2.02

(a) Less Power Steering

AMA Specifications—Passenger Car

MAKE OF CAR	MONTEGO	MODEL YEAR	1970	DATE ISSUED	9-2-69	REVISED (*)
	TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC	
MODEL	CID	250-1V	250-1V	302-2V	302-2V	

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)	(70K4) D12	(70F85)D12	(70F37)D6		
	Model	-12127-	D00F-A	D00F-A	D0AF-Y	D0AF-T	
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	0-4 @ 960		0-4 @ 1525	0-4 @ 1525	
		Intermediate points deg.@rpm	11-15 @ 1340 17.8-22.2 @ 3000		12-16 @ 2000 16-23.5 @ 3000	12-16 @ 2000 14.3-18.8 @ 3000	
			Max. deg.@rpm	25-30 @ 4000		20-25 @ 4000	16.5-21.3 @ 4000
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	0-3 @ 6.3		0-3 @ 8	0-6 @ 7.5	
		Intermediate points, deg.@in. Hg.	0-6 @ 7.8 8-14 @ 10		0-6 @ 11 7-13 @ 15 14.5-20.5 @ 20	7-13 @ 10 12-18 @ 13 12-18 @ 13	
			Max. deg. in. Hg.	13-18 @ 12		17-22 @ 22	18-23 @ 18
	Breaker gap (in.)		.024-.030		.018-.024		
	Cam angle (deg.)		35-40		24-29		
	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-	FEH-B	(BF-82)	C6AF-A	(BF-42)	
	Thread (mm)		18mm		18mm		
	Tightening torque (lb. ft.)		15-25				
	Gap		.032-.036				
Cable	Conductor type		Resistance Core Cable				
	Insulation type		Hypalon Sheath				
	Spark plug protector		Hypalon Boot				

ELECTRICAL – SUPPRESSION

Locations & type.	Capacitor in Alternator and Voltage Regulator			
Static Collectors in Front Wheels	Resistance Core Ignition Cable and Hood Ground			
Vacuum Retard Char.;	-2 @ 4.5 - 8.5	-2 @ 4 - 8	-2 @ 5 - 9	
Crankshaft Degrees	-8 @ 6.5 - 10.6	-8 @ 6 - 10	-4 @ 6 - 10	
at Inches of Mercury	-(10-12) @ 12	-(10-12) @ 11	-(5-7) @ 11	

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL	TRANSMISSION CID	MANUAL 351-2V	AUTOMATIC 351-2V	MANUAL 351-4V	AUTOMATIC 351-4V
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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-I2029-A			
	Amps	Engine stopped	4.5			
		Engine idling	2.5			
Distributor	Make (Autolite)		(70F97)D12	(70F57)S	(70F118)D12	(70F30)D6
	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	13-17 @ 2400	10-14 @ 1350	16-20 @ 2700	10.5-14.5@1750
			15.8-20@3000	16.5-21@3000	17-21.3@3000	12.5-16.7@3000
		Max. deg.@rpm	20-25@4000	20.5-25.5@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	0-3 @ 7	0-3 @ 7
		Intermediate points, deg.@in. Hg.	0-6 @ 5.5	0-6 @ 8.3	0-6 @ 8.5	0-6 @ 8.5
			8-14 @ 9	10-16 @ 13	8-14 @ 13	8-14 @ 13
		Max. deg. in. Hg.	16-22 @ 13.5	16-22 @ 17	12-18 @ 16	8-14 @ 13
	Breaker gap (in.)		.018-.024	.014-.020	.018-.024	
	Cam angle (deg.)		24-29	26-31	24-29	
	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-12405-B		C9ZF-12405-A	
	Thread (mm)		14mm		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		Capacitor in Alternator and Voltage Regulator			
		Resistance Core Ignition Cable and Hood Ground			
Static Collectors in Front Wheels					
Vacuum Retard Character,		-2 @ 5.5-9.5	None	-2 @ 6-10	-2 @ 6-10
Crankshaft Degrees		-8 @ 8-12		-8 @ 8-12	-4 @ 6.5-10.5
at Inches of Mercury		-(10-12) @ 13		-(10-12)@12.5	-(5-7) @ 11

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

TRANSMISSION	MANUAL	AUTOMATIC
CID	429-4V	429-4V

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		(67APG59)D12
	Model		(68L2)D12
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	C9AF-Y
		Intermediate points deg. @ rpm	0-4 @ 850
			13.5-17.5 @ 1400
			16-20.5 @ 2600
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Max. deg. @ rpm	0-4 @ 1200
			13-17 @ 2000
			16-20.4 @ 3000
			18-23 @ 4000
	Start (in. Hg.)		0-4 @ 6
			0-3 @ 8.2
			1-8 @ 10
			12-18 @ 15
Timing	Breaker gap (in.)		9-15 @ 12
	Cam angle (deg.)		12-17 @ 14.5
	Breaker arm tension (oz.)		19-24 @ 24
Spark Plug	Crankshaft deg. @ rpm		.018-.024
	Mark location		.014-.020
	Make		24-29
	Model		17-21
	Thread (mm)		6 BTC @ Idle (Vacuum Disconnected)
Cable	Tightening torque (lb. ft.)		Crankshaft Damper
	Gap		Autolite
	Conductor type		C6AF-A (BF-42)
Cable	Insulation type		18mm
	Spark plug protector		15-25
	Resistance Core Cable		.032-.036
Cable	Hypalon Sheath		Resistance Core Cable
	Silicone Boot		Hypalon Sheath
			Silicone Boot

ELECTRICAL – SUPPRESSION

Locations & type	Capacitor in Alternator & Voltage Regulator, Static Collectors in Front Wheels
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Resistance Core Ignition Cable and
Hood Ground
Vacuum Retard Characteristics,
Crankshaft Degrees at Inches
of Mercury

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (a)

MODEL	TRANSMISSION	MANUAL	AUTOMATIC	MANUAL	AUTOMATIC
	CID	429-CJ	429-CJ	429-S CJ	429-S CJ

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		(70F56)D12	(70F-129)D12		
	Model		-12127-		D00F-AA	D00F-Y	D00F-AA	D00F-Y
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)			0-4 @ 1050	0-4 @ 825		
		Intermediate points deg.@rpm			14.5-18.5@1700 20.5-25 @ 3000	15-19 @ 1350 20.5-25 @ 3000	Same as Cobra Jet	
		Max. deg.@rpm			25-30 @ 4000	23.5-28.5 @ 4000		
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)			0-3 @ 5.5	0-3 @ 5.5		
		Intermediate points, deg.@in. Hg.			0-6 @ 7 4-10 @ 9 9-15 @ 12	0-6 @ 6.5 6-12 @ 10		
		Max. deg. in. Hg.			12-17 @ 14.5	12-17 @ 15		
	Breaker gap (in.)				.018-.024			
	Cam angle (deg.)				24-29			
	Breaker arm tension (oz.)				17-21			
Timing	Crankshaft deg.@rpm				10° BTC @ Idle (Vacuum Disconnected)			
	Mark location				Crankshaft Damper			
Spark Plug	Make				Autolite			
	Model		-12405-		C9ZF-A	(AF-32)		
	Thread (mm)				14mm			
	Tightening torque (lb. ft.)				10-15			
	Gap				.032-.036			
Cable	Conductor type				Resistance Core Cable			
	Insulation type				Hypalon Sheath			
	Spark plug protector				Silicone Boot			

ELECTRICAL – SUPPRESSION

Locations & type		Capacitor in Alternator & Voltage Regulator, Static Collectors			
		in Front Wheels			
Resistance Core Ignition Cable & Hood Ground					
Vacuum Retard Characteristics, Crankshaft Degrees at Inches of Mercury.		-2 @ 4-8	-2 @ 5-9	Same as Cobra Jet	
		-8 @ 7.5-11.5	-8 @ 7-11		
		-(10-12) @ 12.5	-(10-12) @ 12		

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL _____

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Pointer
	Trip odometer (yes,no)	No
Charge indicator – type		Warning Light
Temperature indicator – type		Electric Gauge
Oil pressure indicator – type		Warning Light
Fuel indicator – type		Electric Gage
Other *		Elect. Clock & Tachometer, Emergency Flashers, Brake System Warning Lt. Safety Convenience Warn. Lights (Low Fuel, Seat Belts, Door Ajar)
Wind-shield wiper	Type – Standard	Two Speed Electric
	Type – Optional	—
Wind-shield washer	Type – Standard	Electric
	Type – Optional	—
Horn	Type	Air Electric
	Number used	1 on Base Model, 2 on High Series, 2 on Base Model as RPO
	Amp draw (each)	5.5 Amp.

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Semi-Centrifugal, Single Disc Dry Plate				
		250-1V	302-2V	351-2V-4V	429-4V	429-CJ
Type pressure plate springs		Coil	Coil	Coil	Coil	
Total spring load (lb.)		1332	1404	1845	2100	
No. of clutch driven discs		1	1	1	1	
Clutch facing	Material	Woven Asbestos				
	Outside & inside dia.	10"x6.75"	10"x6.75"	11.0"x7.0"	11.5"x7.0"	
	Total eff. area (sq.in.)	85.5	85.5	113.1	130.0	
	Thickness	.125	.125	.125	.125	
	Engagement cushioning method	Torband Disc				
Release bearing	Type & method of lubrication	Ball Thrust Prepacked Steel.				
Torsional damping	Methods: springs, friction material	Spring Steel				

* Directional Signal Lights, Headlamp Beam Indicator Light.

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED ^(a)

MODEL	CID	250-1V	351-2V 302-2V	351-4V	429-4V
DRIVE UNITS – TRANSMISSIONS					

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Std.	Std.	Std.	N.A.
Manual 4-speed (std. or opt.)	Opt.	Opt.	Opt.	Std.
Manual with overdrive (std. or opt.)	Not Available			
Automatic (std. or opt.)	Opt.	Opt.	Opt.	Opt.

DRIVE UNITS – MANUAL TRANS.

		250-1V	302 351-2V	351-4V	351-2V-4V	429-4V
Number of forward speeds		3	3	3	4	4 (a)
Transmission ratios	In first	2.99:1	2.99:1	2.42:1	2.78:1	2.32:1
	In second	1.75:1	1.75:1	1.61:1	1.93:1	1.69:1
	In third	1.00:1	1.00:1	1.00:1	1.36:1	1.29:1
	In fourth				1.00:1	1.00:1
	In reverse	3.17:1	3.17:1	2.33:1	2.78:1	2.32:1
Synchronous meshing, specify gears		1-2-3	1-2-3	1-2-3	1 thru 4	1 thru 4
Shift lever location		Column Shift			Floor Shift	
Lubricant	Capacity (pt.)	3.5	3.5	3.5	4	4
	Type recommended	ESW-M2C83-B				
	SAE viscosity number	SAE80				
	SAE viscosity number	SAE80				
	Extreme cold	SAE80				

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)	
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
	SAE viscosity number
	Extreme cold

Not Available

(a) Optional 351-2V & 4V Engines

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (a)

MODEL CID 250-1V 302-2V 351-2V-4V

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Select-Shift				
Type describe	Torque Converter with Planetary Gears				
Selector location	Column or Floor Shift (With Console)				
List gear ratios Selector Pattern and indicate which are used in each selector position	P-Park	—	—	C-4	FMX-MX
	R-Reverse	2.20:1	2.20:1	2.20:1	2.00:1
	N-Neutral	—	—	—	—
	D-Drive	1.00:1	1.00:1	1.00:1	1.00:1
	2-Second	1.46:1	1.46:1	1.46:1	1.47:1
	1-First	2.46:1	2.46:1	2.46:1	2.40:1
Max. upshift speed—drive range	81	92	76(2V)	89 (4V)	
Max. kickdown speed—drive range	78	90	71(2V)	79 (4V)	
Torque converter	Number of elements	Three			79
	Max. ratio at stall	2.10:1	2.02:1		2.05:1
	Type of cooling (air, liquid)	Liquid Passed Through Heat Exchanger on Radiator			
	Nominal diameter	11.25	11.25	12.00	
Lubricant	Capacity—refill (pt.)	18.0	18.0	22.0	
	Type recommended	Transmission Fluid — M2C33F			
Special transmission features	Engine Starts Only When shift lever is in "N" or "P" position				

DRIVE UNITS – PROPELLER SHAFT

Number used	One			
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Exposed Tube-in-tube or cardboard lined			
Outer diam. x length* x wall thickness	Sed.	3.00 x 59.79 x .065	3.00 x 59.79 x .065	3.00x58.64x.065
	Manual 3-speed trans. S/W	3.00 x 56.81 x .065	3.00 x 56.81 x .065	3.00x55.68x.065
	Sed.	—	—	3.00x58.64x.065
	Manual 4-speed trans. S/W	—	—	3.00x55.68x.065
	Overdrive transmission	—	—	—
	Automatic transmission S/W	3.00 x 59.79 x .065	3.00 x 59.79 x .065	3.50x58.64x.065(a)
* Center to center of universal joints, or to centerline of rear attachment.		(Continued)		
Sed.		3.50x59.22x.065(b)		
Auto. Trans. S/W		3.50x56.26x.065(b)		

(a) C-4 Auto. Trans.

(b) FMX Auto. Trans.

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)MODEL CID 429-4V

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Select-Shift
Type describe	Torque Converter with planetary gears
Selector location	Column or floor shift (with console)
List gear ratios Selector Pattern and indicate which are used in each selector position	P-Park — R-Reverse 2.175:1 N-Neutral — D-Drive 1.00:1 2-Second 1.43:1 1-First 2.46:1
Max. upshift speed—drive range	100
Max. kickdown speed—drive range	90
Torque converter	Number of elements Three
	Max. ratio at stall 2.05:1
	Type of cooling (air, liquid) Liquid passed through heat exchanger on radiator
Lubricant	Nominal diameter 12.00
	Capacity—refill (pt.) 26.0
	Type recommended Type "A" transmission fluid - M2C33F
Special transmission features	Engine starts only when shift lever is in "N" or "P" position

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Exposed tube-in-tube or cardboard lined
Outer diam. x length* x wall thickness	Manual 3-speed trans.	
	Sed. Manual 4-speed trans.	3.50 x 55.28 x .065
	Overdrive transmission	
	Sed. Automatic transmission	3.50 x 55.28 x .065
	S/W	3.50 x 52.32 x .065

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED ^(a)

MODEL CID 250-1V 302-2V 351 2V-4V 429-4V

DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		None			
	Lubrication (fitting, prepack)		None			
Slip Yoke	Type		Splined			
	Number of teeth		28	28		31
	Spline O.D.		1-1/2	1-1/2		1-11/16
Universal joints	Make and Mfg. No.		Ford 1260	Ford 1310	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)	Anti-Friction			
		Lubric. (fitting, prepack)	Pre-Packed			
Drive taken through (torque tube or arms, springs)			Spring			
Torque taken through (torque tube or arms, springs)			Spring			

DRIVE UNITS — AXLE

Type (front, rear)		Rear	
Description		Conventional rear axle, with semi-floating axle shafts and straddle mounted pinion.	
Limited Slip differential, type		Ford Traction-Lok	
Drive Pinion Offset		1.50	2.25
No. of differential pinions		Two	Two & Four
Pinion adjustment (shim, other)		Shim	Collapsible & Solid Spacer
Pinion bearing adj. (shim, other)		Collapsible spacer	
Wheel bearing type		Single row double sealed ball bearing	
Lubricant	Capacity (pt.)		4 5.0
	Type recommended		Hypoid-extreme pres. (a) M-2C105A
	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	2.79:1	3.00:1	3.25:	3.50:1	3.91	4.30
No. of teeth	Pinion	16	14	13	12	10	11	10
	Ring gear	44	39	39	39	35	43	43
Ring Gear O.D.		9	8	8 & 9	8 & 9	9	9	9

(a) M2C119 for Traction-Lok

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (•)

MODEL _____

DRIVE UNITS – WHEELS

Type & material	Stamped Steel Disc.	
Rim (size & flange type)	Std.	14x5 JJ on all Except Cyclone Spoiler & GT Which Have 14x7 JJ
	Opt.	14x7 JJ and 14 x 7 JJ Styled
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	Five - 1/2-20

MODEL _____

DRIVE UNITS – TIRES

-Engines-

Montego Sedans & H'Tops	Montego MX Sedans & All Sedans H'Tops & H'Tops S/W	2Dr H'Top	Cyclone Spoiler	GT
250 302	250,302 & 351	429	429	351

Standard	Size, ply rating, & ply		E78-14/B F78-14/B G78-14/B G78-14/B G70-14/B G70-14/B F70-14/B						
	Type (bias, radial, etc.)		Belted Bias						
	Full rated Inflation Press.	Front	27	26	26	22	28	28	28
		Rear	29	28	28	32	28	28	28
Optional	Rev./Mile at 50 MPH		799	777	766	766	781	781	791
	Size, ply rating, & ply		E 78-14/B WSW						
			F 78-14/B WSW						
			G 78-14/B WSW						
			F 70-14/B WSW						
			F 70-14/B "Traction"						
			G 70-14/B "Traction"						

BRAKES – PARKING

Type of control	Foot Operated Hand Release	
Location of control	Left of Steering Column	
Operates on	Rear Service Brake	
If separate from service brakes	Type (internal or external)	—
	Drum diameter	—
	Lining size (length x width x thickness)	—

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

250-302 250-302 250-302 351-429 351-429
Sedans & Hardtops Conv. S/W Sed/HT S/W

MODEL

BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Drum				
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 Only see Page 19A				
Effective area (sq. in.) *		136.1	144.5	144.5	144.5	161.3
Gross lining area (sq. in.) **		163.6	173.3	173.3	173.3	192.5
Swept area (sq. in.) ***		267.2	282.8	282.8	282.8	314.0
Front to Rear Effectiveness Relationship		62.0/ 38.0	61.1/ 38.9	57.7/ 42.3	61.1/ 38.9	57.7/ 42.3
Drum	Diameter (nominal)	Front	10x2.25	10x2.50	10x2.50	10x2.50
		Rear	10x2.0	10x2.0	10x2.0	10x2.5
	Type and material	Front: Full Cast Flared & Finned Rear: Composite Rear: Full Cast Flared & Finned				
Rotor	Outer working diameter		—			
	Inner working diameter		—			
	Working width		—			
	Material & type (vented/solid)		—			
Wheel cylinder bore	Front		1.125			
	Rear		.906	.906	.969	.906 .969
Master Cylinder	Bore		1.00			
	displacement	Front %	65			
	distribution	Rear %	35			
Pedal arc ratio		6.24:1				
Line pressure at 100 lb. pedal load		795				
Shoe Clearance	Front		.015			
	Rear		.015			
Brake lining	Bonded or riveted		Riveted			
	Front Wheel	Material	Molded Asbestos			
		Size (length x width x thickness)	Prim. or out-board	8.46x2.25x.184	8.46x2.50x.184	
			Second. or in-board	10.88x2.25x.239	10.88x2.50x.239	
		Segments per shoe	One			
	Rear Wheel	Material	Molded Asbestos			
		Size (length x width x thickness)	Prim. or out-board	8.46x2.00x.184	8.46x2.50x.184	
			Second. or in-board	10.88x2.00x.239	10.88x2.50x.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.)

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

ALL MODELS

MODEL CID All with optional front disc brakes

BRAKES — SERVICE Optional — Disc Brakes — (Front) — All

Type (drum) or (disc & no. of pistons)				Caliper Disc	
Self adjusting (std., opt., N.A.)				Std.	
Special Valving	Type (proportion, delay, metering, other)			Pressure Differential	
Power brake make & type (remote, int., etc.)		Std.			
		Opt. Package		Bendix tandem integral dual master cylinder	
Effective area (sq. in.) *				40.6	
Gross lining area (sq. in.) **				40.6	
Swept area (sq. in.) ***				232	
Front to Rear Effectiveness Relationship				Controlled by Controlled by valving	
Drum	Diameter (nominal)	Front		11.3 (disc)	
		Rear		10.0 (drum)	
	Type and material			Cast-iron disc, Duclite Iron Caliper	
Rotor	Outer working diameter			11.3	
	Inner working diameter			7.35	
	Working width			.940	
	Material & type (vented/solid)			Cast-iron vented	
Wheel cylinder bore	Front			2.38	
	Rear			See page 19	
Master Cylinder	Bore			.937	
	displacement distribution	Front	%	65	
		Rear	%	35	
Pedal arc ratio				3.5	
Line pressure at 100 lb. pedal load				1230	
Shoe Clearance	Front			0	
	Rear			0	
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.)

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL

ALL MODELS

STEERING

Manual (std., opt., NA)			Standard	
Power (std., opt., NA)			Optional	
Adjustable steering wheel (tilt, swing, other)		Type and description		
		(std., opt., NA)	NA	
Wheel diameter		Manual	15 x 15.5 Semi Oval	
		Power	15 x 15.5 Semi Oval	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	NA	
		Curb to curb (l. & r.)	42.33 with Base Tire	
	Inside rear	Wall to wall (l. & r.)	NA	
		Curb to curb (l. & r.)	NA	
Outside Whl. Angle W/Ins. Wh. at 20°: 17° 19' Man. Strg. 17° 49' Power Steering				
Manual	Gear	Type	Recirculating ball & nut lube ESW-M1C87-A .87lb. + .07	
		Make	Ford	
		Ratios	Gear	22.1
			Overall	29.04:1
		No. wheel turns (stop to stop)	4.93 Lock to lock	
Power	Type (coaxial, linkage, etc.)		Linkage booster	
	Make		Bendix	
	Gear	Type	Recirculating ball and nut lube ESW-M1C87-A .87 lb. + .07	
		Ratios	Gear	16.1
			Overall	20.64/1
			Pump driven by	
No. wheel turns (stop to stop)		3.5 Lock to lock		
Linkage	Type		Parallelogram	
	Location (front or rear of wheels, other)		Rear of wheels	
	Drag link (trans. or longit.)		Transverse	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		All 7° 40'	
	Bearings (type)	Upper	Joint with sintered iron ball - teflon coated fabric washer	
		Lower	Joint with sintered iron ball - teflon coated fabric washer	
		Thrust	Steel spring and cap in all joints	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		-3/4° + 1/2	
	Camber (deg.)		+1/4° + 1/2	
	Toe-in (outside track inches)		1/4" + 1/16"	
Steering spindle & joint type			Integral assy with ball socket joints	
Wheel Spindle	Diameter	Inner bearing	1.38 I. I.	
		Outer bearing	.86 I. D.	
	Thread size		13/16" - 20 UNEF-2A R. H. Thd.	
	Bearing type		Tapered Roller	

AMA Specifications—Passenger Car

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL

ALL MODELS

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 suspension
Provision for acc. squat control	Asymmetrical type rear spring mounting
Special provisions for car jacking	None
Shock absorber front & rear	Type Direct acting, rebound cut-off front
	Make Autolite Gabriel
	Piston dia. 1.00 Std. 1.18 Heavy Duty
Other special features	

SUSPENSION – FRONT

Type and description	Independent S. L. A. Suspension with Ball Joints and Coil Springs.			
Spring	Type	Coil		
	Material	SAE-5160 Steel		
	Size (coil design height & I.D. bar length x dia.)	10.61" x 3.88", 127" - 149" Bar Length, .60-.66" Bar Dia.		
	Spring rate (lb. per in.)	225 (a)	252 (b)	275 (c) 500 (f)
	Rate at wheel (lb. per in.)	77	85	92 151
Stabilizer	Type (link, linkless, frameless)	Link Type		
	Material & bar diameter	SAE 1090 Steel - .72 (g) .75 (h) .95 (j)		

SUSPENSION – REAR

Type and description			Hotchkiss			
Drive and torque taken through			Rear Spring			
Spring	Type		Semi-Elliptic Leaf			
	Material		SAE -5160: Spring Steel			
	Size (length x width, coil design height & I.D.; bar length & dia.)		58.0" x 2.5"			
	Spring rate (lb. per in.)		94 (l)	105 (m)	140 (n)	210 (r)
	Rate at wheel (lb. per in.)		93	102	138	190
	Mounting insulation type		Rubber Bushings			
	If leaf	No. of leaves	4	4	4	
	Shackle (comp. or tens.)		Compression			
Stabilizer	Type (link, linkless, frameless)		None			
	Material		—			
Track bar type			None			

- (a) All Models with 250 Engine
 (b) All Models with 302 Engine
 (c) All Models with 351 Engine
 (f) Competition Suspension, GT, and 429 Engines.

- (g) 250 & 302 Engines
 (h) 351 & 429 Engines
 (j) All Models with Competition Suspension
 (l) All 250 & 302 Models Except 71
 (m) 351 & 429 Model 76
 (n) All Station Wagons
 (r) All Models with 429 C. J.

AMA Specifications—Passenger Car

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Page 23

MAKE OF CAR MONTEGO MODEL YEAR 1970 DATE ISSUED 9-2-69 REVISED (*)

MODEL _____

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Opt.
	Vent windows	NA
	Backlight or tailgate	Opt.
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)		AM Transistorized (Opt.)
Rear seat speaker		Opt.
Power antenna		NA
Clock		Opt.
Air conditioner (specify type and availability)		NA 250 CID S/W Integrated Re-heat (Optional)
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		Std.
Glove compartment lamp		Opt.
Luggage compartment lamp		Opt.
Underhood lamp		Opt.
Courtesy lamp		Opt. (Rear Door Switches)
Map lamp		Opt.
Auto. trans. quad. lamp		Std. (With Optional Auto. Trans.)
Cornering light lamp		NA
Brake Trouble Warning Lamp		Std.
Seat Belt Warning Lamp		Opt. (With Opt. Deluxe Seat Belts)
Tachometer		Opt.
AM-FM Multiplex Radio		Opt.
Steering Wheel Rim Blow Horn		Opt. (Except Brougham)

LAMP HEIGHT AND SPACING

54-65 A, B, F, G 54D, 57 C, D 65H, C, D, E Station Wagon

Height above ground to center of bulb or marker	Headlamp	Highest *	25.68	25.68	27.82
		Lowest	25.68	25.68	27.82
	Tail	Highest	—	—	—
		Lowest	25.90	25.87	33.34
Distance from C/L of car to center of bulb	Sidemarker	Front	21.22	21.22	33.36
		Rear	23.01	23.01	N.A.
	Headlamp	Inside	17.80	18.18	17.80
		Outside *	24.70	24.69	24.70
	Tail	Inside	27.90	22.85	32.65
		Outside	—	—	—
	Directional	Front	23.10	23.10	23.10
		Rear	NA	NA	NA

* If single headlamps are used enter here.

WEIGHTS

-102 lb. Form Rev. 3-68

WEIGHTS

*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

(c) With Evaporative Emission Control All

Models Except 71-108 Lb., Model 71-102 Lb.

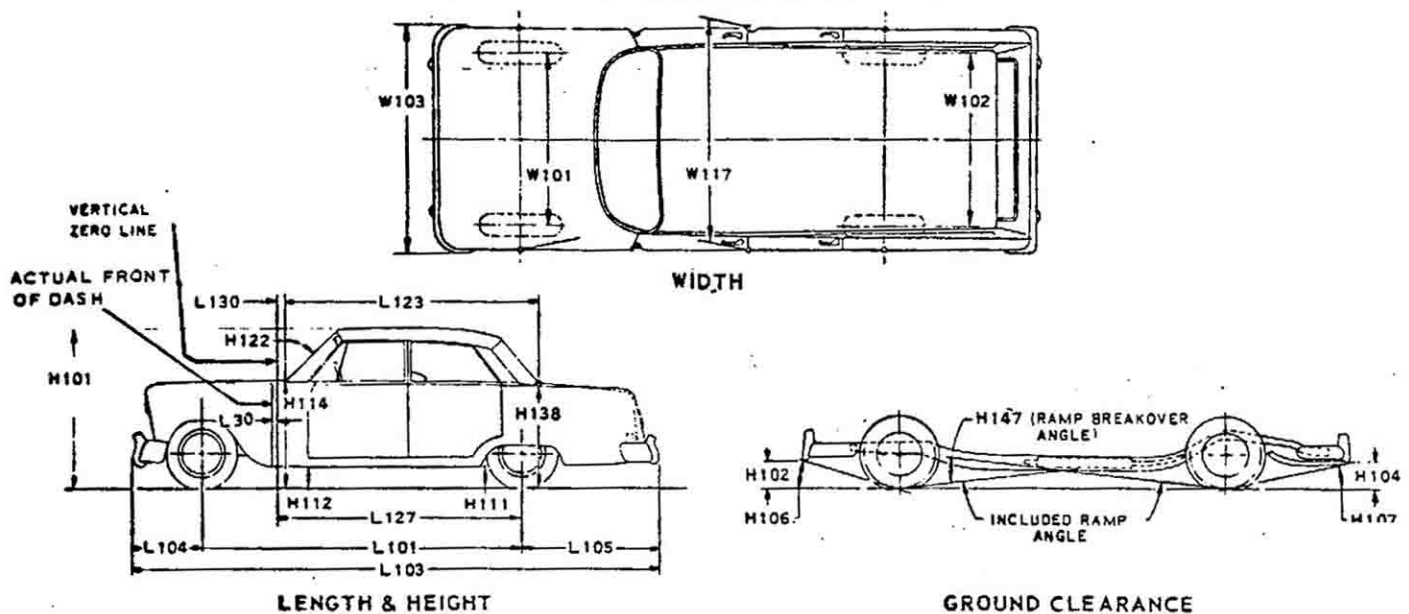
WEIGHTS

Form Rev. 3-68

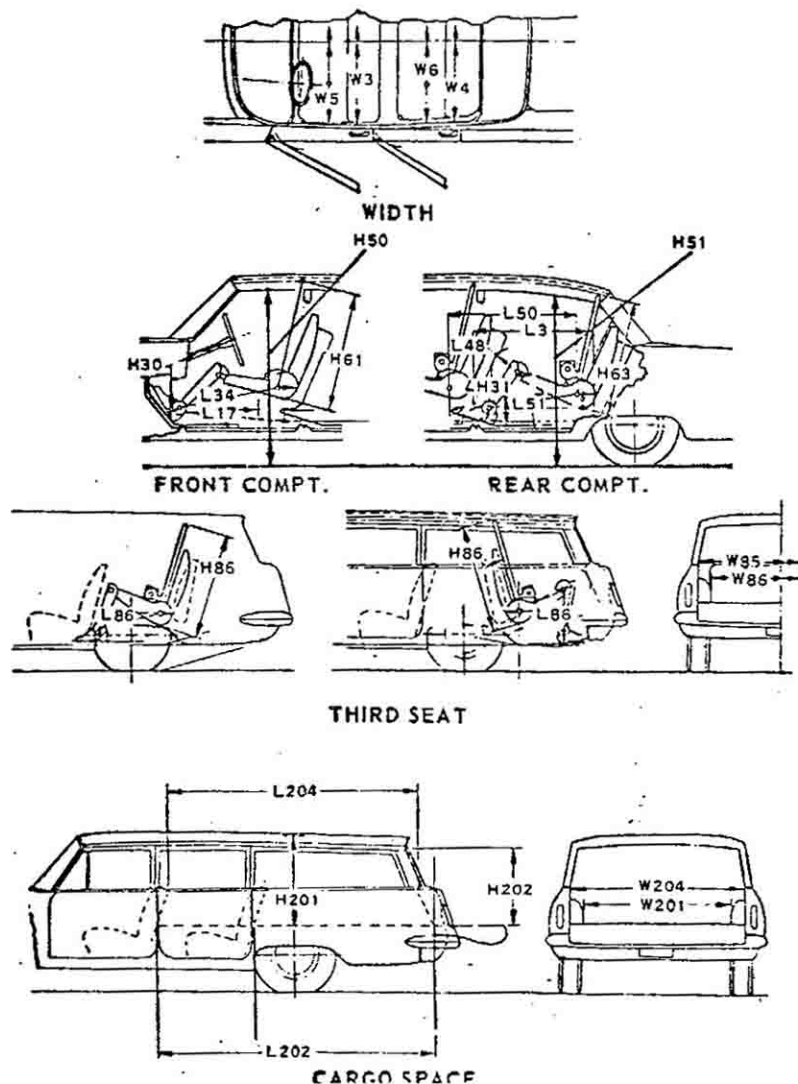
CAR AND BODY DIMENSIONS

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

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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