

# AMA Specifications—Passenger Car

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MANUFACTURER <b>FORD MOTOR COMPANY</b>	CAR NAME <b>MUSTANG</b>	ISSUED: 10-1-68
MAILING ADDRESS <b>P. O. BOX 2053 — DEARBORN, MICH. 48121</b>	MODEL YEAR <b>1969</b>	REVISED (•) <b>2-24-69</b>

## 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.

#### Body Model

#### Model Number

#### STANDARD

2-Door Hardtop	65A
2-Door Hardtop	65C*
2-Door Fastback	63A
2-Door Convertible	76A

#### DELUXE

2-Door Hardtop	65B
2-Door Hardtop	65D*
2-Door Fastback	63B
2-Door Convertible	76B

#### MACH 1

2-Door Fastback	63C
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#### GRANDE

2-Door Hardtop	65E
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#### MUSTANG E

2-Door Fastback	63D
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\*Bench Seat

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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.	65	68	76
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### WIDTH

Track - Front	W101	58.5		
Track - Rear	W102	58.5		
Maximum overall car width	W103	71.3	71.8	71.3
Body width at No. 2 pillar	W117	69.7		

### LENGTH

Body "O" to front of dash	L 30	1.3		
Wheelbase	L101	108.0		
Overall car length	L103	187.4		
Overhang - front	L104	38.9		
Overhang - rear	L105	40.5		
Body upper structure length	L123	84.3	93.2	85.2
Body "O" line to $\Phi$ of rear wheel	L127	88.5		
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	51.2	50.3	51.2
Cowl height	H114	36.0		
Deck height	H138	36.7	38.1	36.7
Rocker panel - front	To ground	8.4		
	From front wheel $\Phi$			
Rocker panel - rear	To ground	7.4		
	From rear wheel $\Phi$			
Windshield slope angle	H122	52.5 <sup>0</sup>	54.7 <sup>0</sup>	52.5 <sup>0</sup>

### GROUND CLEARANCE

Bumper to ground - front	H102	17.4		
Bumper to ground - rear	H104	14.6		
Angle of approach	H106	23.8 <sup>0</sup>		
Angle of departure	H107	16.3 <sup>0</sup>		
Ramp breakover angle	H147	11.8 <sup>0</sup>		
Min. running clearance (Specify)	H156	4.6		

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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.	YEAR		
		65	68	76
<b>FRONT COMPARTMENT</b>				
Effective head room	H61	37.4	37.1	38.2
Max. eff. leg room - accelerator	L34	41.1		
H Point to Heel point	H30	7.7	7.0	7.7
H Point travel	L17	4.9		
Shoulder room	W 3	56.0		
Hip room	W 5	55.6	55.6	55.6
Upper body opening to ground	H50	46.1	45.5	46.0
<b>REAR COMPARTMENT</b>				
H Point couple distance	L50	27.3	-	27.3
Effective head room	H63	35.8	-	35.9
Min. effective leg room	L51	29.5	-	29.5
H Point to Heel point	H31	10.0	-	10.0
Min. knee room	L48	- 1.2	-	- 1.2
Rear Compartment room	L 3	21.4	23.3	21.4
Shoulder room	W 4	54.7	-	43.2
Hip room	W 6	51.3	-	43.6
Upper body opening to ground	H51	-	-	
<b>LUGGAGE COMPARTMENT</b>				
Usable luggage capacity	V 1	9.8	5.3	8.0
Liftover height	H195	29.6		
Position of spare tire storage		Flat-Right Rear Corner of Trunk		
Method of holding lid open		Torsion Bar		
<b>STATION WAGON - THIRD SEAT</b>				
Shoulder Room	W85	-		
Hip room	W86	-		
Effective leg room	L86	-		
Effective head room	H86	-		
Seat facing direction		-		
<b>STATION WAGON - CARGO SPACE</b>				
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.)	V2	-		
W4 x L204 x H201 1728				

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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		
63-65-A-B-C 76-A-B	200	1V	8.8	115 @ 3800	190 @ 2200	Manual 3-Spd. Cruise-O-Matic	3.08 2.83, 3.08
63-65-A-B-C 76-A-B	250	1V	9.0	155 @ 4000	240 @ 1600	Manual 3-Spd. Cruise-O-Matic	3.00(a) (d), 2.79 2.79, 3.00(a) (d)
63-D	250	1V	9.0	155 @ 4000	240 @ 1600	Cruise-O-Matic	2.33(e)
63-65-A-B-C 76-A-B	302	2V	9.5	220 @ 4600	300 @ 2600	Manual 3-Spd. Cruise-O-Matic	2.79, 3.00(a) (d) 2.79, 3.00(a) (d)
63-65-A-B-C 76-A-B	351	2V	9.5	250 @ 4600	355 @ 2600	Manual 3-Spd. Manual 4-Spd. Cruise-O-Matic	2.75, 3.00(d), 3.25(c) 3.00(d), 3.25(c) 2.75, 3.00(d), 3.25(c)
63-65-A-B-C 76-A-B	351	4V	10.7	290 @ 4800	385 @ 3200	Manual 3-Spd. Manual 4-Spd. Cruise-O-Matic	3.00(d), 3.25(c) 3.00(d), 3.25(c) 3.00(d), 3.25(c)
63-65-A-B-C 76-A-B	390	4V	10.5	320 @ 4600	427 @ 3200	Manual 4-Spd. Cruise-O-Matic	3.00(d), 3.25(c) 2.75, 3.00(d), 3.25(c)
Non Ram Air 63-65-A-B-C 76-A-B	428	4V	10.6	335 @ 5200	440 @ 3400	Manual 4-Spd. Cruise-O-Matic	3.25, 3.50(c), 3.91(b), 4.30(b) 3.25, 3.50(c), 3.91(b), 4.30(b) 3.00(d)
Ram Air 63-65-A-B-C 76-A-B	428	4V	10.6	335 @ 5200	440 @ 3400	Manual 4-Spd. Cruise-O-Matic	3.50(c), 3.91(b), 4.30(b) 3.50(c), 3.91(b), 4.30(b), 3.00(d)

- (a) Equi-lock differential available.  
 (b) Traction-lok differential available only.  
 (c) Traction-lok differential available.  
 (d) A/C ratio.  
 (e) A/C not available.

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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		
GT Option	351	2V	9.5	250 @ 4600	355 @ 2600	Manual 3-Spd. Manual 4-Spd. Cruise-O-Matic	3.00(d), 3.25(c) 3.00(d), 3.25(c) 3.00(d), 3.25(c), 2.75
GT Option	351	4V	10.7	290 @ 4800	385 @ 3200	Manual 3-Spd. Manual 4-Spd. Cruise-O-Matic	3.25(c), 3.00(d) 3.25(c), 3.00(d) 3.25(c), 3.00(d)
GT Option	390	4V	10.5	320 @ 4600	427 @ 3200	Manual 4-Spd. Cruise-O-Matic	3.25(c), 3.00(d) 3.25(c), 3.00(d)

- (a) Equi-lock differential available.  
 (b) Traction-lok differential available only.  
 (c) Traction-lok differential available.  
 (d) A/C ratio.

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		ALL MODELS	
MODEL	CID	200-1V	250-1V      302-2V

## ENGINE – GENERAL

Type, no. cyls., valve arr.	In-Line, 6 Cyl., OHV		90°V, 8 Cyl., OHV
Bore and stroke (nominal)	3.682 x 3.126	3.682 x 3.910	4.002 x 3.00
Piston displacement, cu. in.	200	250	302
Bore spacing (℄ to ℄)	4.08	4.08	4.38
No. system (front to rear)	L. Bank	-	5-6-7-8
	R. Bank	-	1-2-3-4
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-4-2-6-3-7-8
Compres. ratio (nominal)	8.3:1 (8.8:1 Max.)	8.6:1 (9.0:1 Max.)	9.0:1 (9.5:1 Max.)
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	40°		4°
Taxable horsepower <small>Di<sup>2</sup>xNo. Cyl. 2.5</small>	32.5		51.2
Publishing max. bhp* @ eng. RPM	115 @ 3800	155 @ 4000	220 @ 4600 250 @ 5200 (b)
Publishing max. torque* (lb. ft. @ RPM)	190 @ 2200	240 @ 1600	300 @ 2600 300 @ 3400 (b)
Recommended fuel regular – premium	Regular		

## ENGINE – PISTONS

Material	Aluminum Alloy with Steel Struts		
Description and finish	Autothermic, Slipper Skirt, Cam Ground, and Tin Plated		
Weight (piston only) oz.	17.10	17.42	21.16
Clearance (limits)	Top land	.022-.0308	.022-.0308
	Skirt	Top	.0014-.0020 (a)
		Bottom	.0008-.0014 (d)
Ring groove depth	No. 1 ring	.1925-.1995	.202-.209
	No. 2 ring	.1925-.1995	.202-.209
	No. 3 ring	.1925-.1995	.184-.191
	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.  
 (b) High Output (Tunnel Port) 302-4V  
 (c) Model 63D 9.0:1 (9.5:1 Max.)  
 (d) Model 63D. Top .0021-.0029, Bottom .0015-.0021

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		ALL MODELS			
MODEL	CID	351-2V	351-4V	390-4V	428-4V

## ENGINE – GENERAL

Type, no. cyls., valve arr.	90°V, 8 Cyl, OHV				
Bore and stroke (nominal)	4.002 x 3.50		4.052 x 3.784		4.132 x 3.984
Piston displacement, cu. in.	351		390		428
Bore spacing (℄ to ℄)	4.38		4.63		
No. system (front to rear)	L. Bank	5-6-7-8		5-6-7-8	
	R. Bank	1-2-3-4		1-2-3-4	
Firing order	1-3-7-2-6-5-4-8		1-5-4-2-6-3-7-8		
Compres. ratio (nominal)	9.0 (9.5 Max) 10.2 (10.7 Max)		10.0:1 (10.5:1 Max)		10.2:1 (10.6:1 Max)
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°		4° 40'		
Taxable horsepower <small>Dia<sup>2</sup>xNo. Cyl. 2.5</small>	51.2		52.49		54.58
Publishing max. bhp* @ eng. RPM	250 @ 4600-2V 290 @ 4800-4V		320 @ 4600		335 @ 5200
Publishing max. torque* (lb. ft. @ RPM)	355 @ 2600-2V 385 @ 3200-4V		427 @ 3200		440 @ 3400
Recommended fuel regular – premium	Regular-2V Premium-4V		Premium		

## 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		23.1		24.4
Clearance (limits)	Top land	.0304-.0408		.024-.0316	
	Skirt	Top	.0018-.0026 (a)		.0023-.0031(a)
		Bottom	---		
Ring groove depth	No. 1 ring	.202-.209		.208-.215	
	No. 2 ring	.202-.209		.210-.217	
	No. 3 ring	.184-.191		.1945-.2015	
	No. 4 ring	---			

\* Max. bhp (broke 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	200-1V	250-1V	302-2V

## 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 Bevel, Moly. Filled Groove. 302-Cast Iron Alloy, Barrel Face, Molybdenum Filled Groove. #2 Cast Iron Alloy, Straight Face, Scraper Groove, Oxide Coated.		
	Width	#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)		
	Width	.188		
	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	
	Bushing In rod or piston Material	None - - -	
Clearance	In piston	.0003-.0005	.0002-.0004
	In rod	Press Fit	Press Fit
Direction & amount offset in piston	Right .060	Right .090	Right .0625

## ENGINE - CONNECTING RODS

Material	Forged Steel (SAE-1041-H)		
Weight (oz.)	18.69	20.88	19.86
Length (center to center)	4.715	5.88	5.09
Bearing	Material & Type	Unplated Copper-Lead Alloy On Steel Back (Replaceable)	Plated Copper-Lead Alloy on Steel Back (Replaceable Insert)
	Overall length	.790-.810	.706-.726
	Clearance (limits)	.0006-.0022	.0008-.0024
	End play	.0035-.0105	.010-.020 (Two Rods)



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MODEL	CID	ALL MODELS		
		351-2V-4V	390-4V	428-4V

## 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, Barrel Face, Moly. Filled Groove. 390-428, Cast Iron Alloy, Straight Face, Chrome Plated. #2 Cast Iron Alloy, Tapered Face, Scraper Groove, Oxide Coated (a)		
	Width	#1 and #2 (.077-.078)	#1 (.0777) #2 (.0935)	#1 (.0777) #2 (.0775)
	Gap	#1 and #2 (.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	.187		
	Gap	.015-.055 Rails Only		
Expanders	Part of Oil Ring Assembly			

## ENGINE – PISTON PINS

Material	Steel (SAE-5015) (SAE-1016 Optional)		
Length	3.025	3.160	3.170
Diameter	.9124-.9118		.9754-.9749 (Select fit)
Type	Locked in rod, in piston, floating, etc.	Press Fit in Rod	Full Floating Tubular
	Bush- ing	In rod or piston	In Rod
		Material	— — —
Clearance	In piston	.0002-.0004	.0001-.0003
	In rod	Press Fit	.0001-.0003
Direction & amount offset in piston	Right .0625		Right .0625

## ENGINE – CONNECTING RODS

Material	Forged Steel (SAE-1041-H)		
Weight (oz.)	24.92	27.09	29.7
Length (center to center)	5.956	6.488	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
	End play	.010-.020 (2 Rods)	

(a) 390 &amp; 428 Straight Face, 390 Phosphate-Coated.

(b) 428 Blued Steel (AISI-C-1075).

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		ALL MODELS		
MODEL	CID	200-1V	250-1V	302-2V

## 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	
Main bearing	Material & type	SAE - 15 Lead Base Babbitt on SAE - 1010 Steel Back (Replaceable)		Plated, Copper-Lead Alloy on Steel Back	
	Clearance	.0007-.0026		.0005-.0024	
	Journal dia. and bearing overall length	No. 1	2.2486 x 1.015	2.3986 x .965	2.2486 x .880
		No. 2	2.2486 x 1.015	2.3986 x .965	2.2486 x .880
		No. 3	2.2486 x 1.015	2.3986 x .965	2.2486 x 1.132
		No. 4	2.2486 x 1.015	2.3986 x .965	2.2486 x .880
		No. 5	2.2486 x 1.270	2.3986 x 1.194	2.2486 x .880
		No. 6	2.2486 x 1.015	2.3986 x .965	- - -
No. 7		2.2486 x 1.015	2.3986 x .965	- - -	
Dir. & amt. cyl. offset	None		None	R.B. Leads .84	
Crankpin journal diameter		2.1236		2.1232	

## 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	
Type of Drive	Gear or chain	Chain			
	Crankshaft gear or sprocket material	Sintered Iron or Steel			
	Camshaft gear or sprocket material	Cast Iron		Aluminum Body with Molded Nylon Teeth.	
	Timing chain	No. of links	50	56	58
		Width	.762 (.875 Alternate)	1.113 (1.013 Alt.)	.637 (.750 Alt.)
Pitch		.375	.375	.375	

## ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard		
Valve rotator, type (intake, exhaust)		Ford Free Turn (Intake and Exhaust)		Two-Piece
Rocker ratio		1.50:1		1.61:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero (.116-.216) (a)	Zero (.095-.195) (a)	Zero (.067-.167) (a)
	Exhaust	Zero (.116-.216) (a)	Zero (.095-.195) (a)	Zero (.067-.167) (a)

(a) Tappets Collapsed

(Continued)

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MODEL	C. I. D.	351-2V-4V	390-4V	428-4V
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## ENGINE - CRANKSHAFT

Material	Nodular Cast Iron Alloy, Precision Molded			
Vibration damper type	Tune, Elastic Suspended, Inertia Member.			
End thrust taken by bearing (No.)	Three	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	.0005-.0025	
	Journal dia. and bearing overall length	No. 1	2.9998 x .880	2.7488 x .907
		No. 2	2.9998 x .880	2.7488 x .907
		No. 3	2.9998 x 1.132	2.7488 x 1.117
		No. 4	2.9998 x .880	2.7488 x .907
		No. 5	2.9998 x .880	2.7488 x .907
		No. 6	-	-
No. 7		-	-	
Dir. & amt. cyl. offset	R. B. Leads .84	Right Bank 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 or Steel		
	Camshaft gear or sprocket material	Aluminum Die Cast Body with Molded Nylon Teeth		
	Timing chain	No. of links	58	48
		Width	.637(.750 Alt.)	.875 (.890 Alternate)
Pitch		.375	.50	

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		
Valve rotator, type (intake, exhaust)	Two Piece	Ford Free Turn (Intake and Exhaust)	None
Rocker ratio	1.60:1	1.73:1	
Operating tappet clearance (indicate hot or cold)	Intake	Zero (.083-.183) (b)	Zero (.100-.200) (b)
	Exhaust	Zero (.083-.183) (b)	Zero (.100-.200) (b)

(a) 351-2V-4V Unplated.  
 (b) Tappets Collapsed.

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MODEL	CID	200-1V	250-1V	302-2V
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ENGINE— VALVE SYSTEM (cont.) ALL  
Exc. 63D      63D

Timing (based on top of ramp points)	Intake	Opens ("BTC)	9	10	16	16	
		Exhaust	Opens ("BBC)	42	49	55	44
		Closes ("ABC)	51	62	56	70	
		Closes ("ATC)	18	25	19	20	
		Duration - deg.	240	252	252	266	
		Duration - deg.	240	254	254	244	
		Valve opening overlap	27	35	35	36	
		Material	Steel (SAE-1047), Aluminized Head, Chrome Plated Stem & Foot				
		Overall length	4.26	4.26	5.050		
		Actual overall head dia.	1.657-1.642	1.657-1.642	1.788-1.773		
		Angle of seat & face	Seat 44° 30' to 45° 00' Face 45° 30' to 45° 45'				
		Seat insert material	None				
		Stem diameter	.3107-.3100	.3107-.3100	.3423-.3416		
		Stem to guide clearance	.0008-.0025	.0008-.0025	.0010-.0027		
		Lift (- zero lash)	.348	.368	.368		
Intake	Outer spring press. & length	Valve closed (lb. @ in.)	51-57 @ 1.59	51-57 @ 1.59	76-84 @ 1.69		
		Valve open (lb. @ in.)	142-158 @ 1.22	142-158 @ 1.22	190-210 @ 1.31		
	Inner spring press. & length	Valve closed (lb. @ in.)	None	None	None		
		Valve open (lb. @ in.)	None	None	None		
Exhaust		Material	Cast Austenitic Steel, Aluminized Head, Chrome Plated Stem & Foot				
		Overall length	4.26	4.26	4.99 Plus .06 Cap		
		Actual overall head dia.	1.396-1.381	1.396-1.381	1.457-1.442		
		Angle of seat & face	Seat 44° 30' to 45° 00' Face 45° 30' to 45° 45'				
		Seat insert material	None				
		Stem diameter	.3105-.3098	.3105-.3098	.3418-.3411		
		Stem to guide clearance	.0010-.0027	.0010-.0027	.0015-.0032		
		Lift (- zero lash)	.348	.368	.380		
		Outer spring press. & length	Valve closed (lb. @ in.)	51-57 @ 1.59	51-57 @ 1.59	76-84 @ 1.69	
			Valve open (lb. @ in.)	142-158 @ 1.22	142-158 @ 1.22	190-210 @ 1.31	
	Inner spring press. & length	Valve closed (lb. @ in.)	None	None	None		
		Valve open (lb. @ in.)	None	None	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	Splash
	Cylinder walls	Pressure Stream, Splash

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-18-68 REVISED (\*)10-1-68

ALL MODELS

MODEL CID 351-2V-4V | 390-4V | 428-4V

ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	11	16	18
		Closes (°ABC)	65	60	72
Duration - deg.	256	256	270		
Exhaust	Opens (°BBC)	68	55	82	
	Closes (°ATC)	22	21	28	
	Duration - deg.	270	256	290	
Valve opening overlap		33	37	46	
Intake	Material		#1 Sil-Chrome, Hardened Face & Foot, Chrome Plated Stem & Foot (a)		
	Overall length		5.070	5.446	5.446
	Actual overall head dia.		1.849-1.834	2.037-2.022	2.097-2.082
	Angle of seat & face		Seat 44°30'-45° Face 45°30'-45°45' Seat 59°30'-60°F. 60°30'-60°45'		
	Seat insert material		None		
	Stem diameter		.3423-.3416	.3718-.3711	.3718-.3711
	Stem to guide clearance		.0010-.0027	.0010-.0027	.0010-.0027
	Lift (w zero lash)		.418	.438	.481
	Outer spring press. & length	Valve closed (lb. @ in.)	79-87 @ 1.79	85-95 @ 1.82	86-94 @ 1.82
		Valve open (lb. @ in.)	204-226 @ 1.34	209-231 @ 1.38	271-299 @ 1.32
	Inner spring press. & length	Valve closed (lb. @ in.)	Damper Only	Damper Only	Damper Only
		Valve open (lb. @ in.)	Damper Only	Damper Only	Damper Only
	Exhaust	Material		21-4N Steel, Aluminized Head, Chrome Plated Stem & Foot (b)	
Overall length		5.070	5.426	5.426	
Actual overall head dia.		1.548-1.533	1.566-1.551	1.660-1.645	
Angle of seat & face		Seat 44°30' to 45°00' Face 45°30' to 45°45'			
Seat insert material		None			
Stem diameter		.3418-.3411	.3713-.3706	.3708-.3701	
Stem to guide clearance		.0015-.0032	.0015-.0032	.0020-.0037	
Lift (w zero lash)		.448	.438	.489	
Outer spring press. & length		Valve closed (lb. @ in.)	79-87 @ 1.79	85-95 @ 1.82	86-94 @ 1.82
		Valve open (lb. @ in.)	204-226 @ 1.34	209-231 @ 1.38	271-299 @ 1.32
Inner spring press. & length		Valve closed (lb. @ in.)	Damper Only	Damper Only	Damper Only
		Valve open (lb. @ in.)	Damper Only	Damper Only	Damper Only

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Component	Lubrication System
	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Timed Press. Str. Oil Mist
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Press. Splash
	Cylinder walls	Oil Mist, Splash Pressure Stream

- (a) 351 (SAE-1047) Steel, Aluminized Head, Chrome Plated Stem & Foot; 390 No Chrome Plate. (Continued)
- (b) 390 Cast Austenitic Steel; 428 Hardened Foot.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-18-68 REVISED (•)10-1-68

	ALL MODELS		
MODEL <u>CID</u>	200-1V	250-1V	302-2V

## ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor		
Normal oil pressure (lb. engine rpm)	35-55 psi @ 2000 Engine 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 10W-40	+32°F to +90°F - SAE 30	
	-10°F to +90°F - SAE 10W-30	+10°F to +32°F - SAE 20-20W	
	Below -10°F (-32°Max) SAE 5W-30	-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		
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow		
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00x.084 Lam.	
	Main	2.00x.075 Solid	2.25x.075 Solid
Tail pipe dia. (O.D. & wall thickness)	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
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner
	Flame arrester (screen, check valve, other)	Emission Valve and Air Cleaner Filter

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-18-68 REVISED (•) 2-24-69

		ALL MODELS		
MODEL	CID	351-2V-4V	390-4V	428-4V

### ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor		
Normal oil pressure (lb. engine rpm)	35-55 psi @ 2000 Engine rpm	45-65	40-60 psi @ 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.)	4.0		
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 10W-40	+32°F to +90°F - SAE 30	
	-10°F to +90°F - SAE 10W-30	+10°F to +32°F - SAE 20-20W	
Engine Service Reqmt. (MM, MS, etc.)	Below -10°F (-32°Max) SAE 5W-30 -10°F to +10°F - SAE 10W MS		

ENGINE – EXHAUST SYSTEM		351-2V	351-4V	390-4V	428-4V
Type (single, single with cross-over, dual, other)		Single	Dual (3-Can)	Dual (3-Can)	Dual (3-Can)
Muffler No. & type (reverse flow, straight thru, separate resonator)		One Reverse Flow	(a)	(a)	(a)
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.25x.084 Lam.	2.25x.084 Lam.	2.00x.084 Lam.	2.25x.084 Lam.
	Main	2.50x.075 Solid	2.25x.075 Solid	2.00x.075 Solid	2.25x.075 Solid
Tail pipe dia. (O.D. & wall thickness)		2.25x.060 Solid	2.00x.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	Intake Manifold 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) Two – Two Passage Reverse Flow  
One – Reverse Flow

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-25-68 REVISED (a) 2-24-69

MODEL CID 200-1V | 250-1V | 302-2V  
 MANUAL TRANSMISSION

## 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	C9DF-9510-B	C9OF-9510-B (a)	C8AF-9510-BD	
	Barrel size	1.437	1.688	1.564	
	Idle speed	Drive	—	—	—
		Neutral	750 Lights on	700 Lights & A/C on	650 Lights & A/C on
	Idle A/F mixture	.085 @ 8.0 CFM	.100 @ 6.5 CFM	.078 @ 11.5 CFM	
	Aux. Adv. Systems (type)	See Page 13 Centrifugal and Vacuum			
Distributor	Make	Autolite			
	Model	C8DF-12127-C	C9OF-12127-R	C8AF-12127-E	
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	0°-4° @ 1000	0°-4° @ 1000	0°-4° @ 1040
		Intermed. points deg. @ rpm	16.8° @ 2120	11° @ 1550	12.4° @ 1550
		Max. deg. @ rpm	18.8° @ 3000	16.8° @ 3000	18.3° @ 3000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	0°-2° @ 5"	0°-2.5° @ 6.8"	0°-3.2° @ 9"
		Intermed. points deg. @ in. Hg	0°-7° @ 6"	0°-7.5° @ 8.2"	0°-7.4° @ 10.5"
		Max. deg. @ in.	16.5° @ 10"	9.8° @ 10"	11.5°-16.5° @ 15"
			20°-25° @ 13.5"	12°-17° @ 12.5"	17°-22° @ 19"
		Vacuum Source	Carburetor		
	Timing - Crank degrees @ rpm	6° BTC @ Idle (b)			
	Cooling System	See Page 11			
	Exhaust System	See Page 8			

(a) C9OF-9510-J with Air Conditioning

(b) Set with vacuum line off distributor (initial timing)



## AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-25-68 REVISED (a) 2-24-69MODEL CID 200-1V | 250-1V | 302-2V  
AUTOMATIC TRANSMISSION

## 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	C80F-9510-B	C90F-9510-A (a)(b)	C9AF-9510-A	
	Barrel size	1.437	1.688	1.564	
	Idle speed	Drive	550 Lights on	550 Lights & A/C on	550 Lights & A/C on
		Neutral	—	—	—
Idle A/F mixture	.080 @ 9.0 CFM	.090 @ 7.0 CFM	.081 @ 11.0 CFM		
Aux. Adv. Systems (type)		Centrifugal and Vacuum See Page 13			
Make		Autolite			
Model		C8DF-12127-D	C90F-12127-V	C9AF-12127-N	
Distributor	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	0°-4° @ 1100	0°-4° @ 850	0°-3.5° @ 850
		Intermed. points deg. @ rpm	8° @ 1550	16.5° @ 1350	12.7° @ 1300
		Max. deg. @ rpm	18.4° @ 2800	25° @ 3000	16.8° @ 3000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	0°-2° @ 5"	0°-2° @ 5"	0°-2° @ 5"
Intermed. points deg. @ in. Hg		0°-7° @ 6.2"	0°-6° @ 6"	0°-7° @ 7"	
Max. deg. @ in.		13°-19° @ 10"	10°-15.5° @ 10"	10° @ 10"	
Vacuum Source		Carburetor			
Timing - Crank degrees @ rpm		6° BTC @ 550 RPM (c)			
Cooling System		See Page 11			
Exhaust System		See Page 8			

(a) C90F-9510-K with Air Conditioning.

(b) C90F-9510-M Model 63D.

(c) Set with Vacuum Line Off Distributor (Initial Timing)

## AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

MANUAL TRANSMISSION

MODEL CID 351-2V | 351-4V | 390-4V

## 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	C9ZF-9510-A	C9ZF-9510-C	C9ZF-9510-E
	Barrel size	1.689	1.437 Pri., 1.562 Sec.	1.562 Pri., 1.6875 Sec.
	(a) Idle speed	Drive	—	—
	Neutral	650	650	700
Idle A/F mixture		.083 @ 11.0 CFM	.078 @ 11.0 CFM	.078 @ 12. CFM
Aux. Adv. Systems (type)		See Page 13		
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				
Timing - Crank degrees @ rpm				
Cooling System		See Page 11.		
Exhaust System		See Page 8.		

(a) With Lights and Air Conditioning on.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED <sup>(a)</sup>

MODEL CID 351-2V | AUTOMATIC TRANSMISSION | 351-4V | 390-4V

**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	C9ZF-9510-B	C9ZF-9510-D	C9ZF-9510-F	
	Barrel size	1.689	1.437 Pri., 1.562 Sec.	1.562 Pri., 1.6875 Sec.	
	(a) Idle speed	Drive	550	550	550
		Neutral	—	—	—
	Idle A/F mixture	.085 @ 11.0 CFM	.075 @ 12.5 CFM	.070 @ 14. CFM	
	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				
Timing - Crank degrees @ rpm					
Cooling System		See Page 11			
Exhaust System		See Page 8			

(a) With Lights and Air Conditioning on.

## AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*) 2-24-69

MODEL	CID	MANUAL TRANSMISSION	AUTOMATIC TRANSMISSION
		428-4V	428-4V

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air Injection, Engine, Carburetor & Distributor Modifications		
Air Injection Pump	Type	Positive Displacement, Vane Type		
	Displacement	19.3 Cubic Inches Per Revolution		
	Drive ratio	1.21:1 (1.25:1 with A/C)		
	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 Load Plate-Poppet		
	Backfire protection (type)	Air By-Pass or Anti-Backfire Valve		
Carburetor	Make	Holley		
	Model	C9AF-9510-M	C9AF-9510-N	
	Barrel size	1.68 Primary & Secondary	1.68 Primary & Secondary	
	(a) Idle speed	Drive Neutral	650 —	
	Idle A/F mixture	.0835 @ 18.5 CFM	.0855 @ 20. CFM	
Distributor	Aux. Adv. Systems (type)	See Page 13		
	Make	Autolite		
	Model	C8OF-12127-H (69F20)	C8OF-12127-J (69F17)	
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	0°-4° @ 950	0°-4° @ 950
		Intermed. points deg. @ rpm	17° @ 1450	17° @ 1450
			21.7° @ 3000	21.3° @ 2900
		Max. deg. @ rpm	27° @ 4000	27° @ 4000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	0°-2.6° @ 7.6"	0°-3° @ 8"
		Intermed. points deg. @ in. Hg	0°-6° @ 8.6"	2°-9.5° @ 10"
			4°-9.6° @ 10"	14°-20° @ 15"
Max. deg. @ in.		14°-19° @ 15"	17°-22° @ 17"	
Vacuum Source	Carburetor			
Timing - Crank degrees @ rpm	6° BTC @ Idle (b)			
Cooling System	See Page 11			
Exhaust System	See Page 8			

(a) With Lights and Air Conditioning on.

(b) Set with Vacuum Line Off Distributor (Initial Timing).

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-25 REVISED (•) 2-24-69

MODEL		CID	200-1V	250-1V	302-2V	351-2V-4V	390-4V	428-4V	
<b>ENGINE – FUEL SYSTEM</b>									
(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.)	20 Gal.							
Fuel Tank	Filler location	(Left Rear Quarter Panel Model 63) Center Lower Back Panel All Others.							
Fuel Pump	Type (elec. or mech.)	Mechanical							
Fuel Pump	Locations	Left Side of Engine							
Fuel Pump	Pressure range	4.5 - 5.5							
Vacuum booster (std., optional, none)			None						
Fuel Filter	Type	#1 Saran Plastic			#2 Nylon and Monel Cloth				
Fuel Filter	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 Water Heated Carburetor Spacer N/A on 200-250 & 351							
	Air cleaner type	Standard	Dry - Replaceable Element						
	Air cleaner type	Optional	None						
(a)	Idle speed (spec. neutral or drive)	Manual	750 (Neu.)	700	650	650	700	700	
		Automatic	550 (Dr.)	550	550	550	550	650	
	Idle A/F mix.	See Pages 9, 9A, 9B, 9C, 9D							

### CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
All exc. 63D	200	Manual	Autolite	- 9510 - C9DF-B	One-1V	1.437
	200	Automatic	Autolite	C8OF-B	One-1V	1.437
	250	Manual	Autolite	C9OF-B	One-1V	1.688
	250	Automatic	Autolite	C9OF-A	One-1V	1.688
	250	Manual	Autolite	C9OF-J	One-1V	1.688 with A/C
	250	Automatic	Autolite	C9OF-K	One-1V	1.688 with A/C
Model 63D	250	Automatic	Autolite	C9OF-M	One-1V	1.688
All exc. 63D	302	Manual	Autolite	C8AF-BD	One-2V	1.564
	302	Automatic	Autolite	C9AF-A	One-2V	1.564
	351	Manual	Autolite	C9ZF-A	One-2V	1.689
	351	Automatic	Autolite	C9ZF-B	One-2V	1.689
	351	Manual	Autolite	C9ZF-C	One-4V	1.437 P
	351	Automatic	Autolite	C9ZF-D	One-4V	1.562 S
	390	Manual	Autolite	C9ZF-E	One-4V	1.562 P
	390	Automatic	Autolite	C9ZF-F	One-4V	1.687 S
	428	Manual	Holley	C9AF-M	One-4V	1.680 P. & S.
	428	Automatic	Holley	C9AF-N	One-4V	

(a) With Lights & A/C on.

# AMA Specifications—Passenger Car

MAKE OF CAR	MUSTANG	MODEL YEAR	1969	DATE ISSUED	7-18-68	REVISED	(*) 2-24-69
				ALL MODELS EXCEPT 63-D		63-D	
MODEL	CID	200-1V	250-1V	250-1V	250-1V	250-1V	

## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure					
Radiator cap relief valve pressure	12-15 PSI			14-17 PSI		
Circulation thermostat	Type (choke, bypass)	Choke — Poppet or Sleeve Valve				
	Starts to open at (°F)	188°-192°F, Full Open 212°F (Alt. 196°-203°F, Full Open 220°F) (a)				
Water pump	Type (centrifugal, other)	Centrifugal				
	GPM @ 1000 pump rpm	8	11			
	Number of pumps	One				
	Drive (V-belt, other)	V-Belt				
	Bearing type	Double Row, Sealed, Ball and Ball Bearing				
By-pass recirculation type (inter., ext.)	Internal					
Radiator core type (cellular, tube and fin, other)	Down-Flow, Tube and Slit Fin					
Cooling system capacity	With heater (qt.)	9.0	9.8	10.2		
	Without heater (qt.)	8.0	8.8	9.8		
	Opt. equipment-specify (qt.)	9.0 with E.C.		10.2 With A/C or E.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	1.25 @ Radiator	1.75 @ Radiator	1.87 @ Water Pump	
	Upper	Number and type (molded, straight)	One, Molded			
		Inside diameter	1.25	1.50		
	By-pass	Number and type (molded, straight)	None			
		Inside diameter	Standard	Extra	1 or 2	Air Cond.
Fan	Number of blades & spacing	4 Uneven	6 Uneven	4 Uneven	6 Uneven	6 Uneven
	Diameter	16x1.75	15x1.90	17.1x1.75	17.0x1.75	17.0x1.75
	Ratio-fan to crankshaft rev.	1.04:1	1.04:1	1.04:1	1.18:1	1.04:1
	Fan cutout type	None	None	None	Thermo-Modulated	
	Bearing type	Sealed, Ball & Ball (Water Pump Bearing)				
*Drive belts (indicate belt used by letter)	Fan Arrangement	1 or 2 and 3		1 or 2 and 3	4 3 and 4	1 or 1 and 3
	Generator or alternator	A		C	E E	C
	Water Pump	A		C	E E	C
	Power Steering	B		D	D D	
	Air Conditioning				E E	
	Crankshaft	A B	C D		E E D	C D

* Drive Belt Dimensions	A	B	C	D	# E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°						
Nominal length (SAE)	34.00	41.00	42.50	44.25	48.25						
Width	15/32	15/32	15/32	15/32	15/32						

(a) Standard Thermostat for 63D. #Dual Belts.

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

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-18-68 REVISED <sup>(\*)</sup>2-24-69

MODEL \_\_\_\_\_ CID \_\_\_\_\_ ALL MODELS \_\_\_\_\_  
 302-2V . 351-2V-4V

### ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		12-15 psi	
Circulation thermostat	Type (choke, bypass)	Choke -- Poppet or Sleeve Valve	
	Starts to open at (°F)	188°-192° Full Open 212°F (Alt. 196°-203°F, Full Open 220°F)	
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 Bearings	
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.)	13.5	14.6
	Without heater (qt.)	12.5	13.6
	Opt. equipment-specify (qt.)	15.0 with E/C or A/C	16.1 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		
		Inside diameter	.615"	4	1 or 2

### COOLING PACKAGE

Fan	Number of blades & spacing	4 Uneven	5 Uneven	4 Uneven	5 Uneven
	Diameter	17.5 x 2.0	17.56 x 2.4	17.56 x 2.25	17.56 x 2.4
	Ratio-fan to crankshaft rev.	.95:1	1.13:1	.95:1	1.13:1
	Fan cutout type	None	Flex Blade	None	Flex Blade
	Bearing type	Sealed Ball & Roller (Water Pump Bearing)			

* Drive belts (indicate belt used by letter)	<b>Arrangement</b>		1 or 2 & 3	4	3&4	1 or 2 & 3	4	3 & 4
	Generator or alternator		A	C	A	A	C	A
	Water Pump & Fan		A B	C	A E	A B	C	A E
	Power Steering		B		E	B		E
	Air Conditioning			D	D		F	F
	<b>Crankshaft</b>		A B	C D	A E D	A B	C F	A E F
<b>Idler</b>			D	D		F	F	

* 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)	40.25	47.25	40.25	52.75	48.00	54.00					
Width	15/32	15/32	15/32	1/2	15/32	1/2					

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

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED <sup>(\*)</sup> 2-24-69

<b>MODEL</b>	<b>CID</b>	<b>ALL MODELS</b> 390-4V
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## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		<b>Pressure</b>			
Radiator cap relief valve pressure		12-15 psi			
Circulation thermostat	Type (choke, bypass)	Choke — Poppet or Sleeve Valve			
	Starts to open at (°F)	188°-195°F (Fully Open 212°F) (Alt. 196°-203°F Full Open 220°F)			
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 Bearings			
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.)	20.1			
	Without heater (qt.)	19.1			
	Opt. equipment-specify (qt.)	20.1 with Air Conditioning or Extra Cooling			
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, 2.07 @ Water Pump		
	Upper	Number and type (molded, straight)	One, Molded		
		Inside diameter	1.50 @ Radiator, 1.75 @ Water Outlet (Engine)		
	By-pass	Number and type (molded, straight)	One, Straight		
		Inside diameter	.615	4	
<b>COOLING PACKAGE</b>					
Fan	Number of blades & spacing		7 Uneven		
	Diameter		18.25 x 2.0		
	Ratio-fan to crankshaft rev.		94:1	1.25:1	
	Fan cutout type		Thermo Modulated		
	Bearing type		Sealed, Ball & Ball (Water Pump Bearings)		
* Drive belts (indicate belt used by letter)	<b>Arrangement</b>		1 or 2 & 3	4	3&4
	Generator or alternator		A	C	E
	Water Pump and Fan		A	C	F
	Power Steering		B		F
	Air Conditioning			D	D
	<b>Crankshaft</b>		A B	C D	E F D
<b>Idler</b>			D	D	

* 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)	44.75	44.00	44.25	55.00	44.25	51.50					
Width	15/32	1/2	15/32	1/2	15/32	15/32					

1. Std. Cooling 2. Extra Cooling 3. Power Steering 4. Air Conditioning  
# Dual Belts



# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (•) 2-24-69

MODEL	CID	ALL MODELS 428-4V
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### ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure
Radiator cap relief valve pressure		12-15 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°F)
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 Bearings
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.)	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 @ Radiator, 2.07 @ Water Pump
	Upper	Number and type (molded, straight)	One, Molded
		Inside diameter	1.50 @ Radiator, 1.75 @ Water Outlet (Engine)
	By-pass	Number and type (molded, straight)	One, Straight
		Inside diameter	.615

### COOLING PACKAGE

Fan	Number of blades & spacing	7 Uneven (A)	4	7 Uneven
	Diameter	18.25 x 2.00		18.25 x 2.00
	Ratio-fan to crankshaft rev.	.94:1		1.25:1
	Fan cutout type	Thermo-Modulated		
	Bearing type	Sealed, Ball & Ball (Water Pump Bearings)		

* Drive belts (indicate belt used by letter)	<del>Fan</del> Arrangement	1 or 2 & 3	4	3 & 4
	Generator or alternator	A	D	F
	Water Pump	A B	D	F G
	Power Steering	C		G
	Air Conditioning		E	E
	Crankshaft	A C	D E	F G E
Air Pump or Idler	B	E	E	

* 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	62.50	41.00	51.50				
Width	15/32	15/32	1/2	15/32	1/2	15/32	15/32				

1. Std. Cooling 2. Extra Cooling 3. Power Steering 4. Air Conditioning  
 # Dual Belts (A) 6 Blade, 18 Dia., No Clutch with 3.9 or 4.3:1 Axle Form Rev. 3-67

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-23-68 REVISED (\*) 10-1-68

MODEL	CID	200-1V	250-1V	302-2V 351-2V-4V	390-4V	428-4V
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## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model	-10655-	Autolite C9AF-A (a)				C9AF-D	
	Voltage Rtg. & Total Plates		12 Volt, 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-	C6AF-B	C9AF-A	C6AF-B	C9AF-A	C9ZF-B	
	Type and rating		3 Phase, Full Wave Bridge Rectified, Self Limiting					
	Output at engine idle (neutral)							
	Ratio-Gen. to Cr/s rev.		2.30:1	2.60:1	2.40:1	2.54:1	2.54:1	
Regulator	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°F				
		Reverse current to open		Not Applicable				
	Regulated	Voltage		13.5-15.3@ 50°-125°F on Lower Contacts (Shorting Stage)				
		Current		Not Applicable				
	Voltage test conditions	Temperature		75°F				
Load			5 Amps.					
	Other		-					

## ELECTRICAL – STARTING SYSTEM

Starting Motor	Make (Autolite)	Manual Transmission (a)						
	Model	-11001-	C7ZF-A	C9ZF-A	C7AF-F	C9AF-B	C8AF-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	136	157	164	184	184
	Auto.		132	157	(b) (c)	184	184	
Flywheel tooth face width	Manual		.365					
	Auto.		.365					

(a) For all other applications see page 12A

(b) 157-302 CID

(c) 164-351 CID

# AMA Specifications—Passenger Car

Page 12A

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-23-68 REVISED (•) 10-1-68

MODEL \_\_\_\_\_

## BATTERY APPLICATIONS (-10655-)

<u>Engine -- CID</u>	<u>Transmission</u>	<u>Air Cond.</u>	<u>Standard</u>	<u>Optional</u>
200-6	Man. & Auto.	N.A.	C9AF-A(45AH)	55AH, 70AH
250-6	Man. & Auto	#	C9AF-A(45AH)	55AH, 70AH
302-8	Man. & Auto.	#	C9AF-A(45AH)	55AH, 70AH
351, 390	Manual	#	C9AF-A(45AH)	55AH, 70AH
351, 390	Automatic	#	C9AF-B(55AH)	C9AF-C(70AH)
428	Man. & Auto.	#	C9AF-D(80AH)	Engine Compartment
428	Man. & Auto.	#	C9ZF-A(85AH)	Trunk Installation

#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>	
200-6	C6AF-B(42A)	2.3	N.A.	N.A.	
250-6	C9AF-A(42A)	2.6	C9AF-B(55A)	C9AF-B(55A)	2.6
302-351-8	C6AF-B(42A)	2.4	C6AF-G(55A)	C6AF-F(55A)	2.6
390	C9AF-A(42A)	2.54	C9AF-B(55A)	C9SF-A(55A)	2.73
428	C9ZF-B(55A)	2.54	C9ZF-B(55A)	C9ZF-C(55A)	2.73

## STARTING MOTOR APPLICATIONS

<u>Engine -- CID</u>	<u>Manual Trans.</u>	<u>Auto. Trans.</u>
200-6	C7ZF-11001-A	C7OF-11001-A
250-6	C9ZF-11001-A	C9ZF-11001-A
302-351-8	C7AF-11001-F	C7AF-11001-B
390	C9AF-11001-B	C9AF-11001-B
428	C8AF-11001-A	C8AF-11001-A

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (•) 2-24-69  
 MODEL CID 200-1V 250-1V 302-2V  
 MANUAL TRANSMISSION

### ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard		
	Transistorized – Std., Opt., N.A.		N. A.		
	Other (specify)		None		
Coil	Make		Autolite		
	Model		C5DF-12024-A (FAC-12029-A)		C9AF-12024-B
	Amps	Engine stopped	4.5		
Engine idling		2.5			
Distributor (a)	Make		Autolite		
	Model		C8DF-12127-C	C9OF-12127-R	C8AF-12127-E
	Cent'g adv. in c shaft degrees @ engine rpm (nominal)	Start (rpm)	0°-4° @ 1000	0°-4° @ 1000	0°-4° @ 1040
		Intermediate points deg. : rpm	14.8°-18.8° @ 2120 16.6°-21° @ 3000	9°-13° @ 1550 14.5°-19° @ 3000	10.4°-14.4° 16°-20.5° @ 3000
		Max. deg. : rpm	19°-24° @ 4000	18°-23° @ 4000	20°-25° @ 4000
	Vacuum adv. in c shaft degrees : in. Hg. (nominal)	Start (in. Hg.)	0°-2° @ 5"	0°-2.5° @ 6.8"	0°-3.2° @ 9"
		Intermediate points, deg. : in. Hg.	0°-7° @ 6" 13.5°-19.5° @ 10"	0°-7.5° @ 8.2" 6.8°-12.8° @ 10"	0°-7.4° @ 10.5" 11.5°-16.5° @ 15"
		Max. deg. in. Hg.	20°-25° @ 13.5"	12°-17° @ 12.5"	17°-22° @ 19"
	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 (a) 4°-6° ATC @ Curb Idle (b)		
	Mark location		Front Cover		Crankshaft Damper
Spark Plug	Make		Autolite		
	Model <u>-12405-</u>		FEH-B (BF-82)	FEH-B BF-82	C6AF-A (BF-42)
	Thread (mm)		18MM		
	Tightening torque (lb. ft.)		15-25		
Cable	Gap		.032-.036		
	Conductor type		Resistance Core Cable		
	Insulation type		Neoprene Sheath		
Spark plug protector		Hypalon Boot			

### ELECTRICAL – SUPPRESSION

Locations & type		Capacitor in Alternator and Voltage Regulator		
		Resistance Core Ignition Cable and Hood Ground		
(b)	Vacuum Retard Characteristics,	-2° @ 4.3"-8.3"	None	-2° @ 5"-9"
	Crankshaft Degrees at Inches of Mercury	-8° @ 6.8"-10.8"		-8° @ 8"-12"
		-10°-12° @ 11.5"		-10°-12° @ 13"

- (a) Set with vacuum line off distributor.
- (b) Read with vacuum line on distributor (200 and 302 manual only).

MAKE OF CAR	MUSTANG	MODEL YEAR	1969	DATE ISSUED	10-1-68	REVISED (a)	2-24-69
AUTOMATIC TRANSMISSION							
MODEL	CID	200-1V	250-1V	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		C5DF-12024-A (PAC-12029-A)		C9AF-12024-B
	Amps.	Engine stopped	4.5		
		Engine idling	2.5		
Distributor	Make		Autolite		
	Model		C8DF-12127-D	C9OF-12127-V	C9AF-12127-N
	Cent'fgal adv. in c' shaft degrees @ engine rpm (nominal)	Start (rpm)	0°-4° @ 1100	0°-4° @ 850	0°-3.5° @ 850
		Intermediate points deg. @ rpm	6°-10° @ 1550 16.2°-20.5° @ 2800	14.5°-18.5° @ 1350 23°-27° @ 3000	10.7°-14.7° @ 1300 14.5°-19° @ 3000
		Max. deg. @ rpm	24°-28° @ 3750	27°-32° @ 4000	16.5°-21.5° @ 4000
	Vacuum adv. in c' shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0°-2° @ 5"	0°-2° @ 5"	0°-2° @ 5"
		Intermediate points, deg. @ in. Hg.	0°-7° @ 6.2" 13°-19° @ 10"	0°-6° @ 6" 10°-15.5° @ 10"	0°-7° @ 7" 6.6°-13.4° @ 10" 15°-21° @ 15"
		Max. deg. in. Hg.	17°-22° @ 12.3"	13°-18° @ 12"	18°-23° @ 17.5"
	Breaker gap (in.)		.024-.030		
	Cam angle (deg.)		35°-40°		
Breaker arm tension (oz.)		17-21			
Timing	Crankshaft deg. @ rpm		6° BTC @ 550 RPM (a) 4°-6° ATC @ Curb Idle (200) (b)		
	Mark location		Crankshaft Damper		
Spark Plug	Make		Autolite		
	Model -12405-		FEH-12405-B (BF-82) (c)		C6AF-A (BF-42)
	Thread (mm)		18MM		
	Tightening torque (lb. ft.)		15-25		
Cable	Gap		.032-.036		
	Conductor type		Resistance Core Cable		
	Insulation type		Neoprene Sheath		
Spark plug protector		Hypalon Boot			

## ELECTRICAL—SUPPRESSION

Capacitor in Alternator and Voltage Regulator

Locations & type	Resistance Core Ignition Cable and Hood Ground		
(b) Vacuum Retard Characteristics, Crankshaft Degrees at Inches of Mercury	-2° @ 4.5"-8.5" -8° @ 6.8"-10.8" -10°-12° @ 11.5"	None	None

(a) Set with vacuum line off distributor.

(b) Read with vacuum line on distributor.

(c) C2OF-12405-A (BF-92) for Model 63-D only.

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (a) 2-24-69

	MANUAL TRANSMISSION		
MODEL	CID	351-2V	351-4V
			390-4V

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard		
	Transistorized - Std., Opt., N.A.		N. A.		
	Other (specify)		None		
Coil	Make		Autolite		
	Model		C9AF-12024-B (FAC-12029-A)		C5AF-12024-B
	Amps	Engine stopped	4.5		
		Engine idling	2.5		
Distributor (a)	Make		Autolite		
	Model		C9OF-12127-M	C9OF-12127-N	C9AF-12127-K
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	0°-4° @ 1000	0°-4° @ 1000	0°-4° @ 1160
		Intermediate points deg. @ rpm	8°-12° @ 1400 15°-20° @ 3000	12°-16° @ 1800 14.6°-19.4° @ 3000	10.5°-14.5° @ 1800 15.5°-20° @ 3000
		Max. deg. @ rpm	19.5°-24.5° @ 4000	17°-22° @ 4000	19.5°-24.5° @ 4000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0°-2° @ 5"	0°-3.4° @ 7.4"	0°-2° @ 5.2"
		Intermediate points, deg. @ in. Hg.	0°-6° @ 5.7" 10°-16° @ 8.8"	2°-9° @ 10" 11°-17° @ 15"	0°-6° @ 6.6" 7.2°-13.2° @ 10" 14°-20° @ 15"
		Max. deg. in. Hg.	11°-16° @ 10"	16°-21° @ 20"	18°-23° @ 21"
	Breaker gap (in.)		.014-.020		
	Cam angle (deg.)		26°-31°		
Breaker arm tension (oz.)		17-21			
Timing	Crankshaft deg. @ rpm		6° BTC @ Idle (a)		
	Mark location		Crankshaft Damper		
Spark Plug	Make		Autolite		
	Model	-12405-	C6AF-A (BF-42)	C0AF-B (BF-32)	C6AF-A (BF-42)
	Thread (mm)		18MM		
	Tightening torque (lb. ft.)		15-25		
Gap		.032-.036			
Cable	Conductor type		Resistance Core Cable		
	Insulation type		Neoprene sheath		
	Spark plug protector		Hypalon Boot		

## ELECTRICAL - SUPPRESSION

Locations & type	Capacitor in Alternator and Voltage Regulator		
	Resistance Core Ignition Cable and Hood Ground		
Vacuum Retard Characteristics, Crankshaft Degrees at Inches of Mercury	None	None	None

(a) Set with vacuum line off distributor.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (a) 2-24-69  
 AUTOMATIC TRANSMISSION

MODEL CID 351-2V 351-4V 390-4V

## ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard		
	Transistorized – Std., Opt., N.A.		N. A.		
	Other (specify)		None		
Coil	Make		Autolite		
	Model		C9AF-12024-B (FAC-12020-A)		C5AF-12024-B
	Amps	Engine stopped	4.5		
		Engine idling	2.5		
Distributor (a)	Make		Autolite		
	Model		C90F-12127-M	C90F-12127-T	C7AF-12127-AC
	Centrifugal adv. in c shaft degrees @ engine rpm (nominal)	Start (rpm)	0°-4° @ 1000	0°-4° @ 975	0°-2° @ 920
		Intermediate points deg. @ rpm	8°-12° @ 1400 15°-20° @ 3000	16°-20° @ 1850 17°-22.3° @ 3000	9°-13° @ 1400 15.5°-20° @ 3000
		Max. deg. @ rpm	19.5°-24.5° @ 4000	19°-24° @ 4000	19.5°-24.5° @ 4000
	Vacuum adv. in c shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0°-2° @ 5"	0°-2° @ 5"	0°-2.6° @ 8"
		Intermediate points, deg. @ in. Hg.	0°-6° @ 5.7" 10°-16° @ 8.8"	0°-6° @ 6.3" 10°-16° @ 10" 18°-24° @ 15"	2°-9.5° @ 10" 14°-20° @ 15"
		Max. deg. in. Hg.	11°-16° @ 10"	20°-25° @ 17"	20°-25° @ 21.5"
	Breaker gap (in.)		.014-.020		
	Cam angle (deg.)		26°-31°		
Breaker arm tension (oz.)		17-21			
Timing	Crankshaft deg. @ rpm		6° BTC @ Idle (a)		
	Mark location		Crankshaft Damper		
Spark Plug	Make		Autolite		
	Model <u>-12405-</u>		C6AF-A (BF-42)	C0AF-B (BF-32)	C6AF-A (BF-42)
	Thread (mm)		18MM		
	Tightening torque (lb. ft.)		15-25		
Gap		.032-.036			
Cable	Conductor type		Resistance Core Cable		
	Insulation type		Neoprene Sheath		
	Spark plug protector		Hypalon Boot		

## ELECTRICAL – SUPPRESSION

Locations & type	Capacitor in Alternator and Voltage Regulator Resistance Core Ignition Cable, and Hood Ground
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(a) Set with vacuum line off distributor.

MAKE OF CAR	MUSTANG	MODEL YEAR	1969	DATE ISSUED	10-1-68	REVISED (a)
MODEL	CID	MANUAL TRANS.	428-4V	AUTOMATIC TRANS.	428-4V	

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard	
	Transistorized - Std., Opt., N.A.		N. A.	
	Other (specify)		None	
Coil	Make		Autolite	
	Model		C5AF-12024-B	
	Amps	Engine stopped	4.5	
Engine idling		2.5		
Distributor	Make		Autolite	
	Model		C8OF-12127-H	
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	0°-4° @ 950	C8OF-12127-J 0°-4° @ 950
		Intermediate points deg.@rpm	15°-19° @ 1450 19.4°-24° @ 3000	15°-19° @ 1450 19°-23.5° @ 2900
		Max. deg.@rpm	22°-27° @ 4000	22°-27° @ 4000
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	0°-2.6° @ 7.6"	0°-3° @ 8"
		Intermediate points, deg.@in. Hg.	0°-6° @ 8.6" 4°-9.6° @ 10"	2°-9.5° @ 10" 14°-20° @ 15"
		Max. deg. in. Hg.	14°-19° @ 15"	17°-22° @ 17"
	Breaker gap (in.)		.014-.018	.014-.020
	Cam angle (deg.)		26°-31°	26°-31°
Breaker arm tension (oz.)		17-21		
Timing	Crankshaft deg.@rpm		6° BTC @ Idle (a) 1° BTC-1° ATC @ 700 RPM (b)	
	Mark location		Crankshaft Damper	
Spark Plug	Make		Autolite	
	Model		C0AF-12405-B (BF-32)	
	Thread (mm)		18MM	
	Tightening torque (lb. ft.)		15-25	
Gap		.032-.036		
Cable	Conductor type		Resistance Core Cable	
	Insulation type		Neoprene Sheath	
	Spark plug protector		Hypalon Boot	

## ELECTRICAL - SUPPRESSION

Locations & type	Capacitor in Alternator and Voltage Regulator	
	Resistance Core Ignition Cable and Hood Ground.	
(b) Vacuum Retard Characteristics, Crankshaft Degrees at Inches of Mercury	-2° @ 6.5"-10.5"	None
	-4° @ 7.5"-11.5"	
	-5°-7° @ 12"	

(a) Set with vacuum line off distributor.

(b) Read with vacuum line on distributor (428 manual only.)



# AMA Specifications—Passenger Car

MAKE OF CAR	MUSTANG	MODEL YEAR	1969	DATE ISSUED	10-1-68	REVISED (a)
MODEL	CID	200-1V	250-1V	302-2V	351-2V-4V 390-4V	428-4V

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Pointer
	Trip odometer (yes, no)	Optional
Charge indicator – type		Electric Gage Shunt (a)
Temperature indicator – type		Electric Gage
Oil pressure indicator – type		Electric Gage (a)
Fuel indicator – type		Electric Gage
Other		Elec. Clock & Tach. Opt., Emergency Flasher, Directional Signal Lights, Headlamp Beam Indicator Light, Brake Sys. & Seat Belt Warning Lights
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 Amps. Max.

## DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Semi-Centrifugal, Single Disc, Dry Plate				
Type pressure plate springs	Coil				
Total spring load (lb.)	1158	1338	1404	1845	2100
No. of clutch driven discs	One				
Clutch facing	Material	Woven Asbestos			
	Outside & inside dia.	9.0 x 6.0	10.0 x 6.75	11 x 7	11.5x7
	Total eff. area (sq.in.)	70.7	85.5	113.1	130.0
	Thickness	.125	.125	.125	.125
	Engagement cushioning method	Torbend Disc			
Release bearing	Type & method of lubrication	Angular Contact, prepacked sealed			
Torsional damping	Methods: springs, friction material	Spring			

(a) Warning lights are used with optional tachometer.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (\*) 10-1-68

MODEL	CID	200-1V	250-1V	302-2V	351-2V 351-4V	390-4V	428-4V
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### DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Std.	Std.	Std.	Std.	NA	NA
Manual 4-speed (std. or opt.)	NA	NA	Opt.	Opt.	Std.	Std.
Manual with overdrive (std. or opt.)	NA	NA	NA	NA	NA	NA
Automatic (std. or opt.)	Opt.	Opt. (e)	Opt.	Opt.	Opt.	Opt.

### DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Speed (a)	4-Speed (b)	3-Speed (c)	4-Speed (d)	
Transmission ratios	In first	2.99	2.78	2.42	2.32	
	In second	1.75	1.93	1.61	1.69	
	In third	1.00	1.36	1.00	1.29	
	In fourth	-	1.00		1.00	
	In reverse	3.17	2.78	2.33	2.32	
Synchronous meshing, specify gears		1st, 2nd, 3rd	1st, 2nd, 3rd, 4th	1st, 2nd, 3rd	1st, 2nd, 3rd, 4th	
Shift lever location		Floor				
Lubricant	Capacity (pt.)	3.5	4.0	3.5	4.0	
	Type recommended	ESW-M2C83-B				
	SAE viscosity number	Summer	80			
		Winter	80			
	Extreme cold					

### 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	NOT AVAILABLE
Lubricant	Capacity (pt.) (Overdrive only)
	Separate filler (yes, no)
	Type recommended
	SAE viscosity number
	Summer
	Winter
	Extreme cold

- (a) Standard with 200-1V, 250-1V and 302-2V Engines.
- (b) Standard with 390-4V and optional with 302-2V, 351-2V & 351-4V Engines.
- (c) Standard with 351-2V & 351-4V Engines.
- (d) Standard with 428-4V Engine and optional with 351-2V, 351-4V & 390-4V Engines.
- (e) Standard with Model 63D.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (\*) 11-8-68

ALL MODELS

MODEL	CID	200-1V	250-1V	302-2V	351-2V-4V	390-4V	428-4V
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### DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Select-Shift						
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	2.46:1 D & 1 1.46:1 D & 2 1.00:1 D 2.20:1 R		2V    4V		2.46:1 D & 1 1.46:1 D & 2 1.00:1 D 2.175:1		
Max. upshift speed—drive range	82		86	76    82	91	91	
Max. kickdown speed—drive range	87		87	71    75	82	82	
Torque converter	Number of elements	Three					
	Max. ratio at stall	2.10:1	2.02:1	2.02:1	2.05:1 (b)	2.05:1	2.05:1
Lubricant	Type of cooling (air, liquid)	Liquid					
	Nominal diameter	10.25	11.25	11.25	12.00 (b)	12.00	12.00
Special transmission features	Capacity—refill (pt.)	16	18	18	22 (b)	26	26
	Type recommended	Type – Transmission M-2C33F					

### DRIVE UNITS – PROPELLER SHAFT

Number used	One					
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Exposed					
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.75"	2.75"	3.00	3.00	
		50.76"	50.96"	50.22"	50.02	N. A.
	Manual 4-speed trans.	.065	.065	.065	.065	
			2.75	3.00	3.00	3.00
Overdrive transmission		50.96	50.22	50.02	50.02	
		.065	.065	.065	.065	
Automatic transmission	Not Available					
	3.00	3.00	3.00	2.75	3.00	3.00
	50.96	50.61	50.96	50.61	46.58	46.58
	.065 (a)	.065 (a)	.065 (a)	.065	.065	.065

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

(Continued)

(a) Tube & Tube

(b) Model 63D with 250 CID

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (11-8-68)

MODEL	CID	200-1V	250-1V	302-2V	351-2V 351-4V	390-4V	428-4V
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## DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None					
	Lubrication (fitting, prepack)	None					
Slip Yoke	Type						
	Number of teeth	28		28	28	28 Man. 31 Auto.	31 Man. 31 Auto.
	Spline O.D.	1-1/2		1-1/2	1-1/2	1-1/2 Man. 1-11/16 Auto.	1-11/16 Man. 1-11/16 Auto.
Universal joints	Make and Mfg. No.	Dana 1110		Ford 1260	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, overhung pinion (6 Cyl.) (200-1V) Conventional, semi-floating, straddle mtd. pinion (8 Cyl.) & 6 Cyl. 250					
Limited Slip differential, type		Equa-Lok			Traction Lok		
Drive Pinion Offset		1.50			2.25		
No. of differential pinions		Two			Two & Four		
Pinion adjustment (shim, other)		Shim					
Pinion bearing adj. (shim, other)		Collapsible Spacer			Collapsible & Solid Spr.		
Wheel bearing type		Single Row, Double Sealed Ball					
Lubricant	Capacity (pt.)	2.5	4.0	5			
	Type recommended	M2C-104A			M2C-105-A*		
	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		2.33	2.79	2.83	3.00	3.08	3.20	3.25	3.50	3.91	4.30
No. of teeth	Pinion	24	14	12	13	12	10	12	10	11	10
	Ring gear	56	39	34	39	32	32	39	35	43	43
Ring Gear O.D.		7-3/4	8	7-1/4	8/9	7-1/4	7-1/4	8/9	9	9	9

\* For Equa-Lock Axle Assy.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (•)10-1-68

MODEL CID 200-1V 250-1V 302-2V 351-2V-4V

### DRIVE UNITS – WHEELS

Type & material		<b>Stamped Steel</b>	
Rim (size & flange type)	Std.	14 x 5 JJ	
	Opt.	N. A.	14 x 6 Styled Wheel 14 x 6 Stamped Steel
Attachment	Type (bolt or stud)	Stud	
	Circle diameter	4.5	
	Number and size	Four - 1/2"	Five - 1/2"

### MODEL

### DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		7.35 x 14 4PR BSW	E78 x 14 BSW
	Type (bias, radial, etc.)		Bias	Bias
	Full rated Inflation Press. (a)	Front	24	24
		Rear	24	24
	Rev./Mile at 50 MPH		801	797
Optional	Size, ply rating, & ply	7.35 x 14 4PR WSW C78 x 14 WSW E78 x 14 B & WSW	E78 x 14 BSW & WSW F70 x 14 WSW (c) (Belted) FR70 x 14 WSW (a) (c) E70 x 14 WSW (b) (Belted)	

### BRAKES – PARKING

Type of control		<b>Foot Operated Step-On/Hand Release</b>
Location of control		<b>L-Hand of steering column under instrument panel</b>
Operates on		<b>Rear service brake</b>
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

- (a) With Handling Suspension Only.
- (b) With Styled Wheel Only.
- (c) With 14 x 6 Wheel Only.

- (a) Tire pressures to provide maximum fuel economy
  - 4 ply rated tires - inflate to 32 PSI maximum
  - 8 ply rated tires - inflate to 40 PSI maximum

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

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (a)10-1-68

MODEL CID 390-4V 351-4V G. T. 390-4V G. T. 428-4V

### DRIVE UNITS – WHEELS

Type & material		Stamped Steel	Stamped Steel
Rim (size & flange type)	Std.	14 x 6 JJ	14 x 6 JJ Styled Whl. 14 x 6 JJ
	Opt.	14 x 6 JJ Styled WHL.	14 x 6 JJ Styled Whl.
Attachment	Type (bolt or stud)	Stud	Stud
	Circle diameter	4.5	4.5
	Number and size	Five - 1/2"	Five - 1/2"

MODEL \_\_\_\_\_

### DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		E78 x 14 (Belted)	F70-14 WSW (F70-14) (Belted)
	Type (bias, radial, etc.)		4 PR BSW	Bias
	Full rated Inflation Press. (a)	Front	24	28
		Rear	24	28
Rev. Mile at 50 MPH		797	784	784
Optional	Size, ply rating, & ply		7.35 x 14 WSW	FR70 x 14 WSW (3) FR70 x 14 WSW (3)
			F70 x 14 WSW (3) Belted	
			FR70 x 14 WSW (1) (3)	
			E70 x 14 WSW (2) (Belted)	

### BRAKES – PARKING

Type of control		Foot-Operated "Step-On" Type/Hand 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)	-

- (1) With Handling Suspension Only.
- (2) With Styled Wheel Only.
- (3) With 14 x 6 Wheel Only.

- (a) Tire pressures to provide maximum fuel economy
  - 4 ply rated tires - inflate to 32 PSI maximum
  - 8 ply rated tires - inflate to 40 PSI maximum

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

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED <sup>(\*)</sup> 10-1-68

MODEL	CID	200-1V	250-1V	302-2V	351-2V & 351-4V	390-4V	428-4V
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## BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)		Duo-Servo					
Self adjusting (std., opt., N.A.)		Standard					
Special Valving	Type (proportion, delay, metering, other)		None				
Power brake make & type (remote, int., etc.) *	Std.	N.A.					
	Opt.	N.A.	Disc (a)	Disc (a)	Disc (a)	Disc (a)	
Effective area (sq. in.) *		109.4	129.7	146	146		
Gross lining area (sq. in.) **		131.0	154.7	174.2	174.2		
Swept area (sq. in.) ***		212.0	251.4	282.5	282.5		
Front to Rear Effectiveness Relationship		60.8%					
Drum	Diameter (nominal)	Front	9.0	10.0 Fl.	10.0 Fl.	10.0 Fl.	
		Rear	9.0	10.0	10.0	10.0	
Type and material		F&R Comp.	Rr: Comp.	Rear Composite			
			Fr: Cast Iron	Fr: Cast Iron			
Rotor	Outer working diameter		--				
	Inner working diameter		--				
	Working width		--				
	Material & type (vented/solid)		--				
Wheel cylinder bore	Front		1.062	1.125	1.094	1.094	
	Rear		.844	.875	.875	.875	
Master Cylinder	Bore		1.00	1.00	1.00	1.00	
	displacement distribution	Front %	65	65	65	65	
		Rear %	35	35	35	35	
	Pedal arc ratio		6.24:1				
Line pressure at 100 lb. pedal load		795					
Shoe Clearance	Front		0.015				
	Rear						
Bonded or riveted		Riveted					
Brake lining	Front Wheel	Material		Asbestos			
		Size (length x width x thickness)	Prim. or out-board	2.25 x 7.66 x .22	2.25 x 8.46x.18	2.50 x 8.46x.18	2.50 x 8.46x.18
			Second. or in-board	2.25 x 9.82 x .25	2.25 x 10.88x.25	2.50 x 10.88x.25	2.50 x 10.88x.25
	Segments per shoe		One				
	Rear Wheel	Material		Asbestos			
		Size (length x width x thickness)	Prim. or out-board	1.5 x 7.66 x .22	1.75 x 8.46x.18	2.00 x 8.46x.18	2.00 x 8.46x.18
Second. or in-board			1.5 x 9.82 x .25	1.75 x 10.88x.25	2.00 x 10.88x.25	2.00 x 10.88x.25	
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.)

## AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)MODEL CID ALL MODELS

## BRAKES - SERVICE

Optional - Disc Brakes - (Front) - All Except 200 CID

Type (drum) or (disc & no. of pistons)		Caliper Disc		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	1) Differential valve and warning light switch 2) Proportioning valve (Rear Brakes)		
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		63%		
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		1.00	
	displacement distribution	Front %	65	
Rear %		35		
Pedal arc ratio		3.00		
Line pressure at 100 lb. pedal load		1000 @ 20 Hg.		
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 <b>MUSTANG</b>	MODEL YEAR <b>1969</b>	DATE ISSUED <b>7-1-68</b>	REVISED <b>(*)</b>
MODEL	CID	200-1V	250-1V
		302-2V	351-2V
			-4V
			390-4V
			428-4V

**STEERING**

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Dual Tilt		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	16.0		
	Power	16.0		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	39.43	
		Curb to curb (l. & r.)	37.6	
	Inside rear	Wall to wall (l. & r.)	21.26	
		Curb to curb (l. & r.)	21.22	
			18° 40'	
Manual	Gear	Type	Recirculating Ball and Nut Lube ESW-M1C87-A .55 Lb. + .05	
		Make	Ford	
		Ratios	Gear	19.9
			Overall	25.3
No. wheel turns (stop to stop)		4.64		
Power	Type (coaxial, linkage, etc.)		Linkage	
	Make		Ford	
	Gear	Type	Recirculating Ball & Nut Lube ESW-M1C87-A .55 Lb. + .05	
		Ratios	Gear	16.0
			Overall	20.32
	Pump driven by		Belt off crankshaft pulley Lube M2C33-F	
No. wheel turns (stop to stop)		3.74		
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	Washer in upper ball joint	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		+ 1/4° ± 1/2°	
	Camber (deg.)		+ 1° ± 3/4°	
	Toe-in (outside track inches)		3/16 ± 1/16	
Steering spindle & joint type		Integral w/wheel spindle; ball socket joints		
Wheel Spindle	Diameter	Inner bearing	1.75 I.D.	
		Outer bearing	.75 I.D.	
	Thread size		3/4-16 NF3	
	Bearing type		Tapered Roller	

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (•)

MODEL	CID	200-1V	250-1V	302-2V, 351-2V & 351-4V	390-4V	428-4V
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## SUSPENSION – GENERAL

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	1.0	1.0 (a)	1.0 (a)	1-3/16 (b)
Other special features						

## SUSPENSION – FRONT

Type and description		Independent S. L. A. with drag strut, ball joints, coil springs & shock absorbers mounted over upper arm				
Spring	Type	Coil				
	Material	Steel SAE 5160				
	Size (coil design height & I.D. bar length x dia.)	10.04x3.87 128 x .57	10.04x3.87 134 x .60	10.04x3.87 134 x .60	10.04x3.87 127 x .60	10.04x3.87 123.2 x .65
	Spring rate (lb. per in.)	220	245	260 (c)	260 (c)	365
	Rate at wheel (lb. per in.)	74	83	88	88	123
Stabilizer	Type (link, linkless, frameless) & Material	Link Type Steel SAE 1090				
	bar diameter	.69	.69	.69 (d)	.72 (d)	.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.)	53 x 2.50				
	Spring rate (lb. per in.)	85	85 (e)	85 (e)	85 (e)	135
	Rate at wheel (lb. per in.)	103	103	103	103	140
	Mounting insulation type	Silent block (Frt.) Split Type Rubber Bushing Rear				
Stabilizer	If leaf	No. of leaves				Four
	Material	Shackle (comp. or tens.) Compression				
Type (link, linkless, frameless)		None				
Track bar type		None				

- (a) 1-3/16 Gabriel used with G. T. Package.
- (b) 1-3/16 Gabriel.
- (c) 320 Rate Springs used with G. T. Package.
- (d) .85 Stabilizer Bar used with G. T. Package.
- (e) 115 Rate Springs used with G. T. Package.

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED 10-1-68

MODEL 65 63 76

<b>FRAME</b>	
Type and description (Separate frame, unitized frame, partially - unitized frame)	<b>Unitized Construction</b>

**BODY – MISCELLANEOUS INFORMATION**

Drs. hinged (front, rr.)	Front doors	<b>Front</b>
	Rear doors	<b>-</b>
Type of finish (lacquer, enamel, other)		<b>Enamel</b>
Hood counterbalanced (yes, no)		<b>Yes</b>
Hood release control (internal, external)		<b>External</b>
Vehicle ident. No. Location		Top of instrument panel on drivers 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 ignition switch
Vent window control method (crank, friction pivot)	Front	<b>None</b>
	Rear	<b>Models 65-76 (Crank Type) Flipper Qtr. Model 63 (Friction Type Pivot)</b>
Seat cushion type	Front	<b>Formed Wire</b>
	Rear	<b>Formed Wire</b>
	3rd seat	<b>None</b>
Seat back type	Front	<b>Formed Wire</b>
	Rear	<b>Formed Wire</b>
	3rd seat	<b>None</b>
Windshield glass type (i.e., single curved - laminated plate)		<b>Compound Curved, one piece laminated plate</b>
Side glass type (i.e., curved - tempered plate)		<b>Curved, tempered sheet</b>
Backlight glass type (i.e., compound curved - tempered plate, three piece)		<b>Compound curved, tempered plate, one piece</b>
Windshield glass exposed surface area	<b>1138</b>	<b>1128</b>
Side glass exposed surface area	<b>1072</b>	<b>945</b>
Backlight glass exposed surface area	<b>678</b>	<b>1250</b>
Total glass exposed surface area	<b>2888</b>	<b>3288</b>
		<b>1127</b>
		<b>1074</b>
		<b>779</b>
		<b>2980</b>

# AMA Specifications—Passenger Car

MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 7-1-68 REVISED (\*)

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MODEL 65 63 76

## CONVENIENCE EQUIPMENT

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

	Side windows	Opt. door only
Power windows	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)		Std.
Radios (specify type as well as availability)		Opt. Push Button AM, Opt. Push Button AM/FM Opt. AM Radio Stereosonic Tape System
Rear seat speaker		Opt. with AM Radio Only
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Ford Selectaire Integrated with Heater
Speed warning device		NA
Speed control device		Opt.
Ignition lock lamp		NA
Dome lamp		Std. Model 65, NA Model 76 - Dual Qtr. Pillar on Model 63 (Opt.)
Glove compartment lamp		Opt.
Luggage compartment lamp		Opt.
Underhood lamp		N. A.
Courtesy lamp		Opt. Model 65, Std. on Models 63, 76
Map lamp		Opt. on Model 65, 63
Auto. trans. quad. lamp		Std. w/optional auto. trans.
Cornering light lamp		NA
Dual Tilt Column		Opt.
Low Fuel Warning Lamp		N. A.
Door Ajar Warning Lamp		N. A.
Seat Belt Warning Lamp		Opt. with Deluxe Seat Belts
Qtr. Flipper Wdo.		Std. Model 63

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	25.1
		Lowest	24.8
	Tail	Highest	24.6
		Lowest	-
	Sidemarker	Front	16.2
		Rear	19.3
Distance from C L of car to center of bulb	Headlamp	Inside	18.8
		Outside *	29.8
	Tail	Inside	-
		Outside	23.1
	Directional	Front	20.9
		Rear	23.1

\* If single headlamps are used enter here.



MAKE OF CAR MUSTANG MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (3)

### WEIGHTS

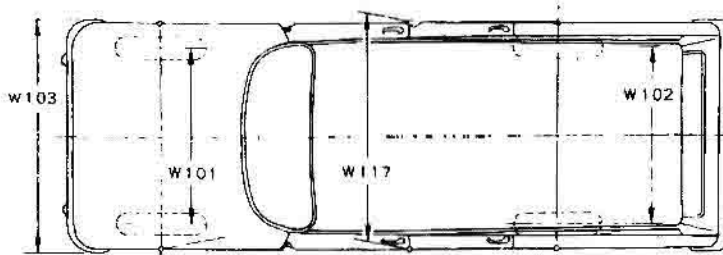
	CURB WEIGHT * POUNDS			Remarks
	Front	Rear	Total	
<b>Accessories &amp; Equipment Differential Weights (Cont'd.)</b>				
Locking Differential	0	+ 3	+ 3	
Power Steering	+28	0	+28	
Power Disc Brakes	+22	+ 2	+24	302
Power Disc Brakes	+15	+ 2	+17	351, 390 & 428
Special Hldg. Pkg.	+ 6	+ 3	+ 9	302 & 351
Special Hldg. Pkg.	+ 4	+ 3	+ 7	390
Wheel Covers	+ 1	+ 1	+ 2	
W.S.W. Tires	+ 1	+ 2	+ 3	
E78-14 Belted Tires	+ 1	+ 1	+ 2	Std. 351 & 390
E70-14 Belted Tires	+ 5	+ 9	+14	Std. 428
E70-14 Belted Tires	+ 8	+14	+22	
SR70-14 Belted Tires	+ 3	+14	+22	
14x3 Wheels	+ 7	+12	+19	
Styled Steel Wheels	+ 9	+16	+25	
55 Amp. Hr. Batt.	+ 8	- 1	+ 7	
80 Amp. Hr. Batt.	+18	- 2	+20	Std. on 428
85 Amp. Batt.	-54	+79	+25	Trunk Mounted - 428 Mod. 65 Only
Power Conv. Top	+ 1	+ 8	+ 9	
Conv. Glass Backlite	0	+ 3	+ 3	
Bumper Guards - Frt.	+ 3	- 1	+ 2	
Full Console	+ 6	+ 6	+12	
Vinyl Roof	+ 3	+ 5	+ 8	
Bench Seat - Frt.	+ 4	+ 5	+ 9	
High Back Bucket Seats	+ 1	+ 2	+ 3	
Dual Tilt Wheels	+ 4	+ 2	+ 6	
Interior Decor	+ 1	0	+ 1	
Deluxe Interior Decor	+ 2	+ 1	+ 3	
Exterior Decor	+ 2	+ 1	+ 3	
Speed Control System	+ 5	+ 1	+ 6	8 Cyl. Auto. Only
Visibility Light Grp	+ 1	+ 1	+ 2	
Clock - Electric	+ 1	+ 1	+ 2	
Heater Delete	-20	- 6	-26	Hawaii Only
GT Group	+17	+43	+60	351-2V
GT Group	+18	+32	+50	351-4V
GT Group	+23	+17	+40	390-4V
Mach I	+156	+110	+266	Model 63 Only 351-2V Included
Grande	+39	+36	+75	Model 65 Only
Mustang E	-33	- 7	-90	Model 63D Only, 250, Auto. Std.

\*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (3).

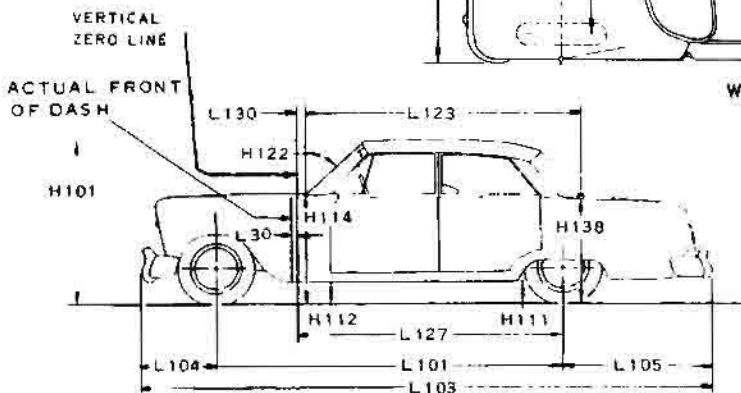
## CAR AND BODY DIMENSIONS

### KEY SHEET

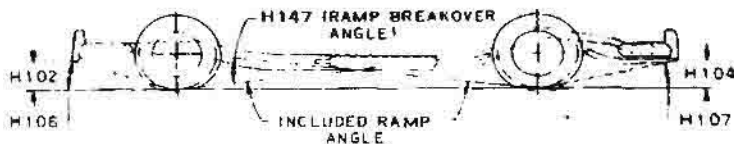
#### EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

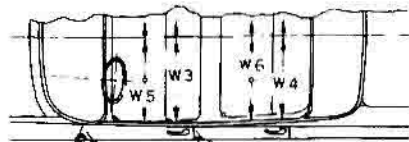


LENGTH & HEIGHT

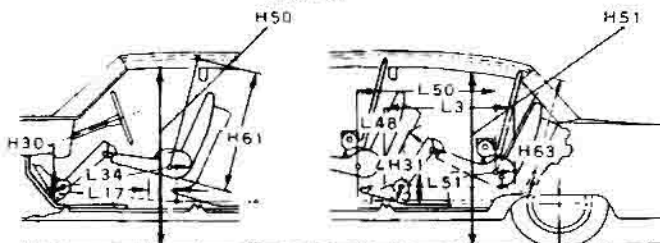


GROUND CLEARANCE

#### INTERIOR CAR AND BODY DIMENSIONS



WIDTH

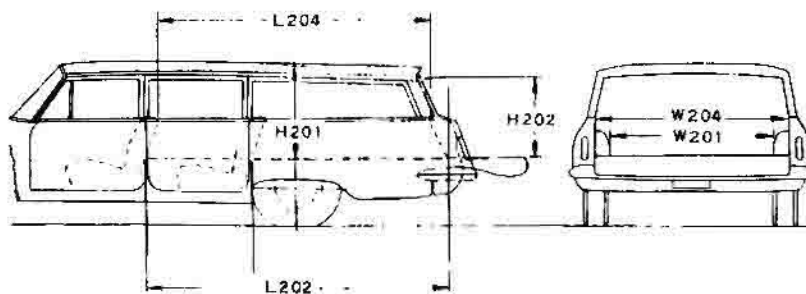


FRONT COMPT.

REAR COMPT.



THIRD SEAT



CARGO SPACE

## 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 BRAKING 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 wheelhouseings 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

1728



SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Automatic Transmission.....	16	Kingpin (Steering Axis).....	20
Axis, Steering.....	20	Lamp height and spacing.....	23
Axle, Rear.....	17	Legroom.....	2
Battery.....	12	Lengths - Car and Body.....	1
Bearings, Engine.....	5, 6, 7	Lifters, valve.....	6
Belts - Fan, Generator, Water Pump.....	11	Linings - Clutch, Brake.....	14, 19
Brakes - Parking, Service Power.....	18, 19	Lubrication.....	7, 8, 14, 15, 16, 17
Camber.....	20	Luggage Compartment.....	2
Camshaft.....	6	Motor, Starting.....	12
Capacities		Muffler.....	8
Cooling System.....	11	Overdrive.....	15
Fuel Tank.....	10	Piston Pins & Rings.....	4, 5
Lubricants		Pistons.....	4, 5
Engine Crankcase.....	8	Power Brakes.....	19
Transmission and Overdrive.....	15, 16	Power Steering.....	20
Rear Axle.....	17	Power Teams.....	3
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Length.....	1	Water.....	11
Height.....	1	Radiator, Hoses.....	11
Ground Clearance.....	1	Ratios - Axle.....	3, 17
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Rear Compartment.....	2	Steering.....	20
Luggage Compartment.....	2	Transmission.....	15, 16
Station Wagon - Third Seat.....	2	Rear Axle.....	3, 17
Station Wagon - Cargo Space.....	2	Regulator - Generator.....	12
Carburetor.....	3, 9, 10	Rims.....	18
Caster.....	20	Rings, Piston.....	5
Choke, Automatic.....	10	Rods - Connecting.....	5
Clutch - Pedal Operated.....	14	Shock Absorbers, Front & Rear.....	21
Coil, Ignition.....	13	Spark Plugs.....	13
Connecting Rods.....	5	Speedometer.....	14
Convenience Equipment.....	23	Springs - Front & Rear Suspension.....	21
Cooling System.....	11	Valve, Engine.....	6
Crankcase Ventilation System.....	8	Stabilizer (Sway Bar) - Front & Rear.....	21
Crankshaft.....	6	Starting System.....	12
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Dimension Definitions		Supply System.....	12
Key Sheet.....	25	Suppression - Ignition, Radio.....	13
Exterior & Interior.....	26	Suspension - Front & Rear.....	21
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Bore, Stroke, Displacement, Type.....	4	Tires.....	18
Compression Ratio.....	4	Toe in.....	20
Firing Order, Cylinder Numbering.....	4	Torque Converter.....	16
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Exhaust Emission Control.....	9	Manual & Overdrive.....	3, 10, 15
Exhaust System.....	8	Ratios.....	15, 16
Equipment Availability.....	22	Track.....	1
Fan, Cooling.....	11	Trunk Luggage Capacity.....	2
Filters - Engine Oil, Fuel System.....	8, 10	Turning Diameter.....	20
Frame.....	22	Unitized Construction.....	22
Front Suspension.....	21	Universal Joints, Propeller Shaft.....	16, 17
Fuel, Fuel Pump, Fuel System.....	4, 10	Valves - Intake & Exhaust.....	6, 7
Fuel Injection.....	10	Vibration Damper.....	6
Generator and Regulator.....	12	Voltage Regulator.....	12
Glass.....	22	Water Pump.....	11
Height (Lamps).....	14	Weights.....	24
Headroom - Body.....	2	Wheel Alignment.....	20
Heights - Car and Body.....	1	Wheelbase.....	1
Horns.....	14	Wheels & Tires.....	18
Horsepower - Brake.....	3, 4	Wheel Spindle.....	20
Ignition System.....	13	Widths - Car and Body.....	1
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