

AMA Specifications—Passenger Car

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MANUFACTURER FORD MOTOR COMPANY	CAR NAME MUSTANG HIGH PERFORMANCE	
MAILING ADDRESS P. O. BOX 2053 - DEARBORN, MICHIGAN	MODEL YEAR 1967	ISSUED: 5-19-66
		REVISED (*)

NOTES:

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

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BODY—TYPES AND STYLE NAMES—

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

<u>Body Model</u>	<u>Passenger</u>	<u>Model No.</u>
2-Door Hardtop	4	65A
2-Door Fastback	2 / 2	63A
2-Door Convertible	4	76A

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	ALL MODELS		
		65A	63A	76A
Wheelbase (L101)		108		
Track	Front (W101)	58.1		
	Rear (W102)	58.1		
Maximum Overall Dimensions	Length (L103)	183.6		
	Width (W103)	70.9		
	Height (H101)	51.6	51.8	51.6
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	3-Speed, Manual, Standard	
	Manual - 4 speed	15	4-Speed, Manual, Optional	
	Overdrive	15	NA	
	Automatic	16	3-Speed, Cruise-O-Matic, Optional	
Axle ratio	Manual - 3 speed	17	See Page 4	
	Manual - 4 speed	17	See Page 4	
	Overdrive	17	NA	
	Automatic	17	See Page 4	
Tire size	18	6.95/8.95 x 14	F 70 x 14	
Engine	Type, no. cyl., valve arr.	3	90° V8, OHV	
	Fuel system (Carb., other)	10	4V HP	
	Bore and stroke	3	4.00 x 2.87	
	Piston displ., cu. in.	3	289	
	Std. compression ratio	3	10.0:1	
	Max. bhp at engine rpm	3	271 @ 6000	
	Max. torque at rpm	3	312 @ 3400	

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GENERAL SPECIFICATIONS—DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	SAE Ref. No.	65A	76A	63A
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FRONT COMPARTMENT

Shoulder room	W3	53.4	53.4	53.4
Hip room	W5	53.9	53.9	53.9
Max. eff. leg room - accelerator	L34	41.8	41.8	41.8
Effective head room	H61	37.4	37.8	37.3
H Point to Heel point	H30	7.8	7.8	7.8

REAR COMPARTMENT

Shoulder room	W4	53.9	43.5	NA
Hip room	W6	50.9	43.5	NA
Minimum effective leg room	L51	28.8	28.8	NA
Effective head room	H63	35.9	35.9	-

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	9.2 E	7.7 E	5.1 E
Liftover height	H195	29.2		
Position of spare tire storage		Right Rear Quarter		
Method of holding lid open		Torsion Bar		

STATION WAGON—THIRD SEAT

Hip room	W86			
Effective leg room	L86			
Effective head room	H86			NOT APPLICABLE
Seat facing direction				

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	
Minimum distance between wheel houses at floor level	W201	
Rear end opening width at belt	W204	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	NOT APPLICABLE
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
Cargo volume index (cu. ft.)	$\frac{W4 \times L204 \times H201}{1728}$	V2

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MODEL 289 CID

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V8, OHV	
Bore and stroke (nominal)	4.005 x 2.87	
Piston displacement, cu. in.	289	
Bore spacing (C/L to C/L)	4.38	
No. system (front to rear)	L. Bank	5-6-7-8
	R. Bank	1-2-3-4
Firing order	1-5-4-2-6-3-7-8	
Compres. ratio (nominal)	9.6:1	
Cylinder Head Material	Cast Iron	
Cylinder Block Material	Cast Iron	
Cylinder Sleeve-Wet, dry, none	None	
Number of mounting points	Front	Two
	Rear	One
Engine installation angle	4° 7'	
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	51.2
Publishing max. bhp* @ eng. RPM	271 @ 6000	
Publishing max. torque* (lb. ft. @ RPM)	312 @ 3400	
Recommended fuel regular - premium	Premium	
Idle speed(spec. neutral or drive)	Manual	750-800 Neutral
	Automatic	650-675 Drive

ENGINE—PISTONS

Material	Aluminum Alloy W/Steel Struts		
Description and finish	Autothermic type, slipper skirt, cam ground and tin plated		
Weight (piston only) oz.	21.31 - 21.52		
Clearance (limits)	Top land	.0350 - .0427 Dia.	
	Skirt	Top	.0020 - .0038 Dia. (a)
		Bottom	.0008 - .0014
Ring groove depth	No. 1 ring	.215 - .222 Radial	
	No. 2 ring	.215 - .222 Radial	
	No. 3 ring	.184 - .191 Radial	
	No. 4 ring	None	

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

(a) @ Centerline of pin hole.

* With headlights off.

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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		
All	289	4V Prem.	* 10.0:1	271@ 6000	312@ 3400	4-Spd. Manual 3-Spd. Automatic	3.50:1 (a), 3.89:1 Opt. 3.50:1 (a), 3.89:1 Opt.

(a) Equi-lock axle available.

* 10.9:1 available with special order gasket.

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MODEL 289 CID

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	-
Compression	Description - material, coating, etc.	#1 Cast Iron Alloy, Straight Face, Chrome Plated #2 Cast Iron Alloy, Straight Face, Scraper Groove Phosphate Coated
	Width	#1 .0774-.0781 #2 .077-.078
	Gap	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece: Two Rails and One Spacer Expander Rails: Steel, Chrome Plated, Oxide Coated Spacer Expander: Blued Steel (All SAE 1070)
	Width	.1875
	Gap	.015 - .055 Rails Only
Expanders		Integral with Oil Ring Assembly

ENGINE—PISTON PINS

Material	Alloy Steel, Heat-treated SAE 5015		
Length	3.020		
Diameter	.9121		
Type	Locked in rod, in piston, floating, etc.	Press fit in rod	
	Bushing	In rod or piston	None
		Material	-
Clearance	In piston	.0002 - .0004	
	In rod	Press fit	
Direction & amount offset in piston	Right .0575 - .0675		

ENGINE—CONNECTING RODS

Material	Forged Steel - SAE 1041	
Weight (oz.)	20.49 - 20.92	
Length (center to center)	5.155	
Bearing	Material & Type	Plated Copper-lead alloy on steel back, replaceable inserts
	Overall length	.721
	Clearance (limits)	.0015
	End play	.014 - .024 (a)

(a) Two Rods.

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ENGINE—CRANKSHAFT

Material	Precision Molded Alloy Cast Iron		
Vibration damper type	Rubber floated inertia member		
End thrust taken by bearing (No.)	3		
Crankshaft end play	.004 - .008		
Main bearing	Material & type	Unplated copper-lead alloy on steel back (replaceable inserts)	
	Clearance	.0005 - .0024	
	Journal dia. and bearing overall length	No. 1	2.2486 x .885
		No. 2	2.2486 x .885
		No. 3	2.2486 x 1.132
		No. 4	2.2486 x .885
		No. 5	2.2486 x .885
		No. 6	None
No. 7		None	
Dir. & amt. cyl. offset	Right hand bank leads .84		
Crankpin journal diameter	2.1232		

ENGINE—CAMSHAFT

Location	In Block		
Material	Special alloy iron, precision molded, induction hardened, and phosphate coated		
Bearings	Material	SAE 15 lead base babbitt - SAE 1010 steel back (replaceable inserts)	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Steel SAE 1146	
	Camshaft gear or sprocket material	Cast Iron	
	Timing chain	No. of links	58
		Width	.75 Max.
Pitch		.375	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Mechanical	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.60:1	
Operating tappet clearance (indicate hot or cold)	Intake	.016 - .022 Hot (a)
	Exhaust	.018 - .024 Hot (a)
Timing marks on flywheel, damper, other	On crankshaft damper	

(Continued)

(a) Hot setting to be made after a minimum of 30 minutes operation @ 1200 RPM (no load).

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MODEL

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	46° @ .00767	
		Closes (°ABC)	84° @ .0101	
		Duration-deg.	310°	
	Exhaust	Opens (°BBC)	94° @ .00767	
		Closes (°ATC)	36° @ .0101	
		Duration-deg.	310°	
Valve opening overlap		82°		
Intake	Material		SAE 1047 Steel, Aluminum coated head	
	Overall length		4.863	
	Actual overall head dia.		1.788 - 1.773	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		.3423 - .3416	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.471 @ .020 Lash	
	Outer spring press. and length	Valve closed (lb. @ in.)	88 @ 1.77	
		Valve open (lb. @ in.)	247 @ 1.32	
	Inner spring press. and length	Valve closed (lb. @ in.)	Flat wire damper 4 - 7 @ 1.77	
		Valve open (lb. @ in.)	Flat wire damper 4 - 7 @ 1.32	
	Exhaust	Material		Forged (21-4N)
		Overall length		4.863
Actual overall head dia.		1.457 - 1.442		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		.3413 - .3406		
Stem to guide clearance		.0020 - .0037		
Lift (@ zero lash)		.4574 @ .020 Lash		
Outer spring press. and length		Valve closed (lb. @ in.)	88 @ 1.77	
		Valve open (lb. @ in.)	247 @ 1.32	
Inner spring press. and length		Valve closed (lb. @ in.)	Flat wire damper 4 - 7 @ 1.77	
	Valve open (lb. @ in.)	Flat wire damper 4 - 7 @ 1.32		

ENGINE—LUBRICATION SYSTEM

Type of lubrication (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

(Continued)

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor
Normal oil pressure (lb. @ engine rpm)	50-60 @ 2000
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary shrouded screen in sump
Oil filter system (full flow, partial, other)	Full flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	4.0
Oil grade recommended (SAE viscosity and temperature range)	90°F and above - SAE 30 or 20W40 20°F to 90° - SAE 20 or 20W or 10W30 -10°F to 20° - SAE 5W20 or 10W30, 10W -10°F and below - SAE 5W20
Engine Service Requirement (MM, MS, etc.)	MS

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual H. P.
Muffler No. & type (reverse flow, straight thru, separate resonator)	*
Exhaust pipe dia. (O.D., wall thickness)	Branch 2.00 x .084 Laminated Main 2.00 x .075 Solid
Tail pipe diameter (O.D. & wall thickness)	2.00 x .060 Solid

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system (open system) (a)
	Optional	Ventilates to induction system (closed system) (b)
Control Unit	Make and model	AC & Chicago Screw (positive vent.)
	Location	Rocker Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
Complete system	Control method (variable orifice, fixed orifice, other)	Variable Orifice, Modulated Flow
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Carburetor Spacer
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap (open system) (a) (RPO - Carburetor Air Cleaner) (closed system) (b)
	Flame arrestor (screen, check valve, other)	Emission Valve

(a) Standard all states except California.

(b) Optional all states except California - standard for California.
Must include exhaust emission (see page 9).

* Two-Two Passage reverse flow, in resonator.

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ENGINE—EXHAUST EMISSION CONTROL

Type (Air Injection, engine modifications, other)		Air injection, carburetor and distributor modifications			
Air Injection Pump	Type	Positive Displacement Vane Type			
	Displacement	19.3 cu. in.			
	Drive ratio	1.25:1			
	Drive type	V-Belt and Pulley			
	Relief valve (type)	Pressure Sensitive Poppet			
Filter (describe)		Polyurethane Element - Silenced			
Air Injection System	Air distribution (head, manifold, etc.)	Cylinder Head			
	Point of entry	At Each Exhaust Port in Cylinder Heads			
	Injection tube I.D.	.260			
	Check valve type	Spring Loaded Plate - Poppet			
Backfire protection (type)		Air By-Pass Valve or Anti-Backfire Valve			
Carburetor	Make	Holley			
	Model	NA			
	Barrel size	1.562			
	Idle speed	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Drive</td> <td>NA</td> </tr> <tr> <td>Neutral</td> <td>None</td> </tr> </table>	Drive	NA	Neutral
Drive	NA				
Neutral	None				
Aux. Adv. Systems (type)		Ford (G.P.D)			
Make		NA			
Model		NA			
Distributor	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)	NA		
		Intermed. points deg. @ rpm	NA		
		Max. deg. @ rpm.	NA		
	Vacuum adv. in. crank degrees @ eng. rpm	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Start (in Hg)</td> <td rowspan="3">NA</td> </tr> <tr> <td>Intermed. points deg. @ in. Hg</td> </tr> <tr> <td>Max. deg. @ in.</td> </tr> </table>	Start (in Hg)	NA	Intermed. points deg. @ in. Hg
Start (in Hg)	NA				
Intermed. points deg. @ in. Hg					
Max. deg. @ in.					
Vacuum Source		Carburetor Throttle Bore			
Timing - Crank degrees @ rpm		NA			
Cooling System (describe changes)		NA			
Exhaust System (describe changes)		None			

(1) With headlights off.

* Only manual trans. info.

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MODEL 289 CID

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.

Carburetor

Fuel Tank	Refill capacity (gals.)	17
	Filler location	Rear Center of Lower Back Panel
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Lower Left Front Corner of Engine
	Pressure range	4.5 - 5.5 PSI
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	#1 Wire Cloth or Plastic (a) #2 Wire Cloth or Plastic (b)
	Locations	#1 In line at carburetor #2 In fuel tank
Choke type		Manual
Carburetor	Intake manifold heat control (exhaust or water)	Exhaust Heated Manifold
	Air cleaner type	Standard
Optional		None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
<u>C/C Emission</u>						
All	289	Manual	Ford - GPD	NA	One, 4V	1.562
All	289	Automatic	Ford - GPD	NA	One, 4V	1.562
<u>Exh. Emission</u>						
All	289	Manual	Holley	NA	One, 4V	1.562
All	289	Automatic	Holley	NA	One, 4V	1.562

(a) Disposable. (b) Permanent. (c) Water heated carburetor spacer.

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MODEL _____ 289 CID

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		12 - 15 PSI	
Circulation thermostat	Type (choke, bypass)	Poppet Valve	
	Starts to open at (°F)	188° - 195° Fully Open 212°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	18 GPM @ 1000 Pump RPM	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Double Row Sealed Ball	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Down Flow Tube and Slit Fin	
Cooling system capacity	With heater (qt.)	15	
	Without heater (qt.)	14	
	Opr. equipment-specify (qt.)	None	
Water jackets full length of cylinder (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
Code - Belt Arrangement			
Fan	Number of blades & spacing		4 Uneven
	Diameter X Width		16.0 x 2.0
	Ratio-fan to crankshaft rev.		1.04:1
	Fan cutout type		None
	Bearing type		Water Pump Bearing
*Drive belts (indicate belt used by letter)	Fan		F
	Generator or alternator		F
	Water Pump		F
	Power Steering		NA
	Air Conditioning		NA
	Crankshaft		F

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V											
Nominal length (SAE)											
Width											

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Battery	Make and Model		Autolite C5AF-10655-A (a)
	Voltage Rtg. & Total Plates		12V 54 Plate
	SAE Designation & Amp Hr. Rtg.		17 MIA-45 Amp. Hr.
	Location		Right Hand Front Engine Compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Autolite
	Model		C6AF-10300-D
	Type and rating		42 Amp.
	Output at engine idle (neutral)		10.0 @ 12.8 Volts
	Ratio—Gen. to Cr/s rev.		1.84:1
Regulator	Make		Autolite
	Model		C5AF-10316-A
	Type		2-Unit - Voltage Control & Field Relay
	Cutout relay	Closing voltage @ generator rpm	2.5 - 4 @ 75°
		Reverse current to open	None
	Regulated	Voltage	14.1 - 14.7 @ 75°
		Current	None
	Voltage test conditions	Temperature	75°
Load		5 Amp.	
Other		None	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Ford
	Model		C40F-11001-A (e)
	Rotation (drive end view)		Clockwise
	Engine cranking speed		180 RPM @ 80°F
	Test conditions		80°
	No load test	Amps	70.0
Volts		12.0	
RPM (min)		9500	
Motor control	Switch (solenoid, manual)		
	Starting procedure		Turn ignition key to spring loaded start position

(a) RPO C5AF-10655-B (66 Plates, 17M2B-55 AH)

(e) 289 CID with auto. trans. with 3 or 4 speed manual use C6AF-11001-B. ^(Continued)

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Positive Electro Mechanical
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	Manual
	Auto.		160
Flywheel tooth face width	Manual	.365	
	Auto.	.365	

ELECTRICAL—IGNITION SYSTEM

AUTOMATIC TRANSMISSION

Coil	Transistorized - Std., Opt., N.A.		NA
	Make		Ford
	Model		FAC-12029-A
	Amps	Engine stopped	4.5
Engine idling		2.5	
Distributor	Make		Ford
	Model		
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	
		Intermediate points deg. @ rpm.	
		Max. deg. @ rpm.	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	
		Intermediate points, deg. @ in. Hg.	
		Max. deg. in. Hg.	
	Breaker gap (in.)		
	Cam angle (deg.)		
Breaker arm tension (oz.)		27 - 30	
Timing	Crankshaft deg. @ rpm.		12°
	Mark location		Pointer on Front Cover
Spark Plug	Make		Autolite
	Model		BF-32
	Thread (mm)		18 MM
	Tightening torque (lb. ft.)		15 - 20
	Gap		.032 - .036
Cable	Conductor type		Resistance Core Cable
	Insulation type		Neoprene Sheath
	Spark plug protector		Synthetic

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MODEL 289 CID

ELECTRICAL—SUPPRESSION

Locations & type	Alternator - Condenser (1.0 MFD) Hood - Ground Voltage Regulator - Condenser (.5 MFD) Front Wheels - Static Collectors Ignition Coil to Distributor - Resistance Core Cable Distributor to Spark Plugs - Resistance Core Cable
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	Ford - GPD
	Trip odometer (yes, no)	No
Charge indicator—type	Ammeter (Shunt)	
Temperature indicator—type	Electric Gage	
Oil pressure indicator—type	Electric Gage	
Fuel indicator—type	Electric Gage	
Other	Tachometer and trip odometer - Optional	
Windshield wiper	Make	Ford
	Type—Standard	Electric Two Speed - Depressed Park
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Foot Operated Pump
Horn	Type	Air Electric
	Number used	Two
	Amp draw (each)	10.0

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Semi-Centrifugal, Single Disc, Dry Plate	
Type pressure plate springs	Coil	
Total spring load (lb.)	1611	
No. of clutch driven discs	One	
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	10.4 x 6.50
	Total eff. area (sq. in.)	103.5
	Thickness	.137
	Engagement cushioning method	Torband Disc
Release bearing	Type & method of lubrication	Ball Thrust, prepacked sealed
Torsional damping	Methods: springs, friction material	Spring Steel

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MODEL CID 289 CID

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	4-Speed		
Transmission ratios	In first	2.78	
	In second	1.93	
	In third	1.36	
	In fourth	1.00	
	In reverse	2.78	
Synchronous meshing, specify gears	1st, 2nd, 3rd, 4th		
Shift lever location	Floor		
Lubricant	Capacity (pt.)	4.0	
	Type recommended	ESW-M2083-B	
	SAE viscosity number	Summer	80
		Winter	80
Extreme cold			

DRIVE UNITS—MANUAL TRANSMISSION WITH 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		

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MODEL 289 CID

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Cruise-O-Matic	
Type describe	Torque Converter W/Planetary Gears	
Method of Selection (Lever, Push Button or other)	Floor Lever	
Selector Pattern	P R N D 2 1	
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	
Max. upshift speeds—drive range	84	
Max. kickdown speeds—drive range	79	
Torque converter	Number of elements	Three
	Max. ratio at stall	2.02:1
	Type of cooling (air, liquid)	Liquid
Lubricant	Capacity—refill (pt.)	17
	Type recommended	
Special transmission features		

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed	
Outer diameter x length* x wall thickness	Manual 3-speed transmission	-
	Manual 4-speed transmission	2.75" x 50.10" x .065"
	Overdrive transmission	Not Available
	Automatic transmission	2.75" x 50.10" x .065"

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

(Continued)

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MODEL 289 CID

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Universal joints	Make	Ford
	Number used	Two
	Type (ball and trunnion, cross, other)	Cross
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Plugged for Fittings (Pre-Pack)
Drive taken through (torque tube or arms, springs)		Rear Springs
Torque taken through (torque tube or arms, springs)		Rear Springs

DRIVE UNITS—REAR AXLE

Description	Conventional, semi-floating, overhung pinion (6 Cyl.) Conventional, semi-floating, straddle mounted pinion (8 Cyl.)		
Limited Slip differential, type	Optional		
Drive Pinion Offset	1.50		
No. of differential pinions	Two		
Ring gear O.D. (std. ratio)	8.75		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Collapsible Spacer		
Wheel bearing type	Single Row, Double Sealed Ball		
Lubricant	Capacity (pt.)	5	
	Type recommended	Hypoid - E.P.M.-2C28-B M-2C57-A	
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
Extreme cold		SAE 90	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	3.89:1	3.50:1	
No. of teeth	Pinion	9	10
	Ring gear	35	35

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DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.50/8.95 x 14 Wide Oval	
	Type - Nylon, etc.		
Rev/mile at 50 mph.	NA		
Inflation press. (cold)	Front	28	
	Rear	28	
Optional tires - size and ply			

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)	Duo-servo			
Self adjusting (std., opt., N.A.)	Standard			
Hydraulic system type (single, dual, etc.)	Dual			
Power brake make & type (remote, integral, etc.)	Integral (Optional)		* Integral	
Effective area (sq. in.) *	129.7	* Swept Frt. 219.2		
Gross lining area (sq. in.) **	154.7	* Swept Rr. 110.8		
Swept drum area (sq. in.) ***	251.3	* Swept Total 330.0		
Percent brake effectiveness—front	62.3%			
Drum or Rotor	Diameter	Front	10.0	* 11.38
		Rear	10.0	10.00
	Type and material		Cast Iron Drums	
	Rotor (vented or solid)		Solid	
No. pistons per caliper		Two		* Four
Wheel cyl- inder bore	Front	1.125	* 1.625	
	Rear	.875	.875	
Master cylinder bore	1.0		1.0	
Available pedal travel	7.05		3.78	
Line pressure at 100 lb. pedal load	780		1050	
Shoe clearance adjustment	.020		-	

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

*** Total swept area for four brakes:

Widest lining contact width for each brake x its drum circumference.

* Optional Disc Brakes Front

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BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Drum	Disc (Opt.)
	Bonded or riveted		Riveted	Bonded
Front Wheel	Material		Molded Asbestos	Asbestos
	Size (length x width x thickness)	Prim. or out-board	2.25 x 8.46 x .22	4.82 x 1.84 x .53
		Second. or in-board	2.25 x 10.88 x .25	4.82 x 1.84 x .53
	Segments per shoe		One	
Rear Wheel	Material		Molded Asbestos	
	Size (length x width x thickness)	Prim. or out-board	1.75 x 8.43 x .22	
		Second. or in-board	1.75 x 10.88 x .25	
	Segments per shoe		One	

BRAKES—PARKING

Type of control	Hand operated "Cane" handle	
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)	-

FRAME

Type and description (Separate frame, unitized frame, partially unitized frame)	Platform type unitized construction
---	-------------------------------------

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)	Opt.		
Wheel diameter	Manual	15.50		
	Power	15.50		
Turning diameter	Outside front	Wall to wall (l. & r.)	39.43	
		Curb to curb (l. & r.)	37.16	
	Inside rear	Wall to wall (l. & r.)	21.26	
		Curb to curb (l. & r.)	21.22	
Outside wheel angle with inside wheel at 20°		18° 40'		
Manual Gear	Type	Recirculating Ball and Nut		
	Make	Ford		
	Ratios	Gear	19.88 (a)	
		Overall	25.3	
No. wheel turns		4.64		

(B)

(Continued)

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STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		Linkage	
	Make		Bendix	
	Gear	Type		Recirculating Ball & Nut
		Ratios	Gear	16.0
	Overall		20.3	
	Pump driven by		Belt off crankshaft pulley	
Number wheel turns		3.60		
Linkage	Type		Parallelogram with cross link	
	Location (front or rear of wheels, other)		Rear	
	Drag link (trans. or longit.)		Transverse	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		6-3/4° Theoretical Non-Adjustable	
	Bearings (type)	Upper	Ball Joint	
		Lower	Ball Joint	
		Thrust	Friction Washer in upper ball joint	
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		* 1/2° Positive * 1/2° Negative	
	Camber (deg.)		* 1/2° Positive	
	Toe-in (outside track inches)		3/32"	
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	

* Maximum difference between wheels not to exceed 1/2°, recommended 1/4°.

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MODEL _____ 289 CID

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	None	
Provision for brake dip control	Yes	
Provision for acc. squat control	Yes	
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	Gabriel - Autolite
	Piston dia.	1-3/16 Gabriel
Other special features	Reduced Jounce #	

SUSPENSION—FRONT

Type and description	Independent S. L. A. drag strut, ball joints, coil springs mounted over upper arm, shock absorber	
Spring	Type	Coil
	Material	Steel SAE 5160
	Size (coil design height & I.D.; bar length x dia.)	NA
	Spring rate (lb. per in.)	NA
	Rate of wheel (lb. per in.)	NA
Stabilizer	Type (link, linkless, frameless)	Link Type
	Material & bar diameter	NA

SUSPENSION—REAR

Type and description	Hotchkiss drive		
Drive and torque taken through	Rear Spring		
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.)	NA	
	Rate of wheel (lb. per in.)	NA	
	Mounting insulation type	Silent block (Frt.) Split Type Rubber Bushing Rear	
	If leaf	No. of leaves	Four
		Shackle (comp. or tens)	Compression
Stabilizer	Type (link, linkless, frameless)	None	
	Material		
Track bar type	None		

Also on special handling package.

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 ALL MODELS

MODEL 65A 76A 63A

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	-
Type of finish (lacquer, enamel, other)		Enamel
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. 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	Friction Pivot
	Rear	Slide Type Quarter Extractors (a)
Seat cushion type	Front	Formed Wire
	Rear	Formed Wire
	3rd seat	None
Seat back type	Front	Formed Wire
	Rear	Formed Wire
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Compound Curved, one piece laminated plate
Side glass type (i.e., curved - tempered plate)		Curved, tempered sheet
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound curved, tempered plate, one piece
Windshield glass exposed surface area		1070.4
Side glass exposed surface area		1073.0
Backlight glass exposed surface area		803.0
Total glass exposed surface area		2946.4
		1070.4
		1039.8
		513.2
		2623.4
		1070.4
		913.6
		1453.6
		3437.6

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	25.4
		Lowest	NA
	Tail	Highest	23.5
		Lowest	NA
Distance from C/L of car to center of bulb	Headlamp	Inside	NA
		Outside *	28.51
	Tail	Inside	NA
		Outside	24.75
	Directional	Front	26.53
		Rear	24.75

* If single headlamps are used enter here.

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 ALL MODELS

MODEL 65A 76A 63A

CONVENIENCE EQUIPMENT

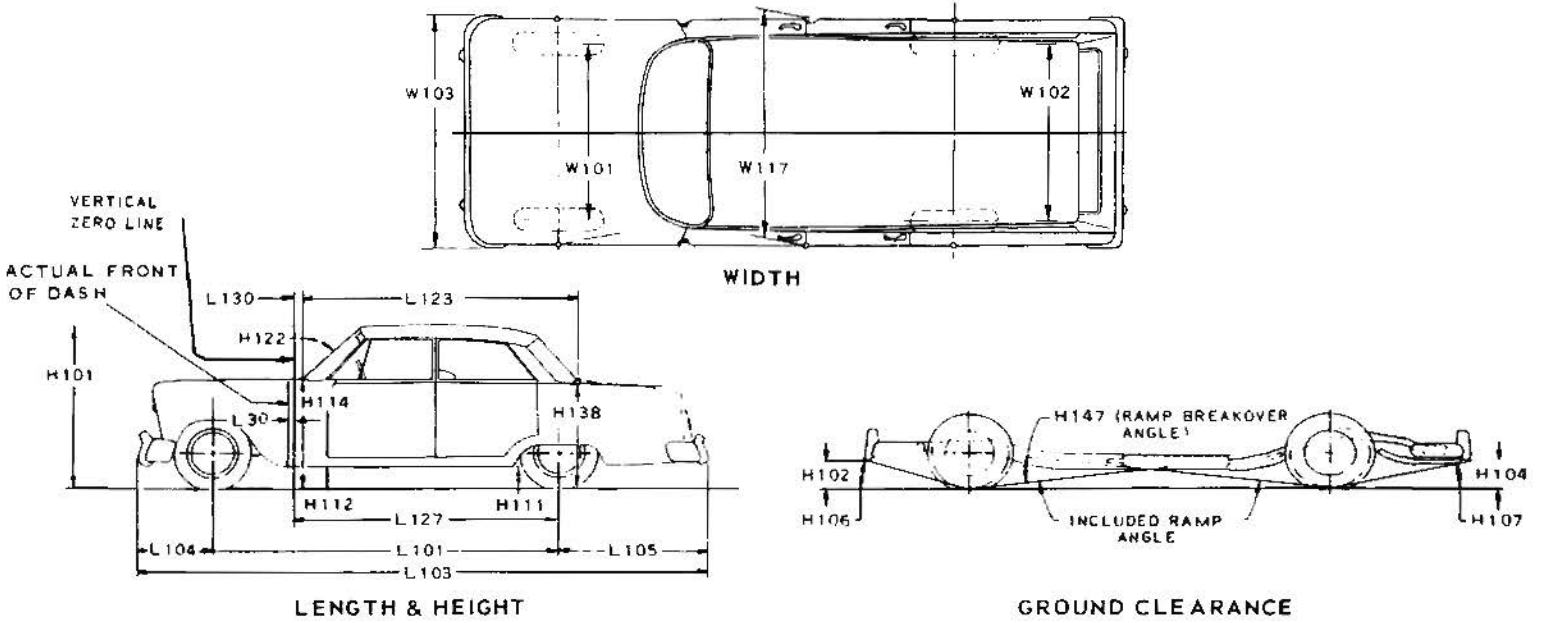
(Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	NA
	Vent Windows	NA
	Backlight or tailgate	-
Power seats (specify type as well as availability)		NA
Reclining front seat back		NA
Front seat headrest		NA
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		NA
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
Back up lamp		Std. Equipment
Dome lamp		Std. Model 65, NA Model 76 - Dual Qtr. Pillar on Model 63
Glove compartment lamp		Std.
Prkg. brake signal lamp		Opt.
Luggage compartment lamp		Opt.
Underhood lamp		Opt.
Courtesy lamp		Std. on Models 63, 76; Opt. Model 65
Map lamp		Opt.
Auto. trans. quad. lamp		Std. w/optional auto. trans.
Emergency flasher lamp		NA
Cornering light lamp		NA
Dual Tilt Column		Opt.
Low Fuel Warning Lamp		Opt.
Door Ajar Warning Lamp		Opt.
Seat Belt Warning Lamp		Opt.

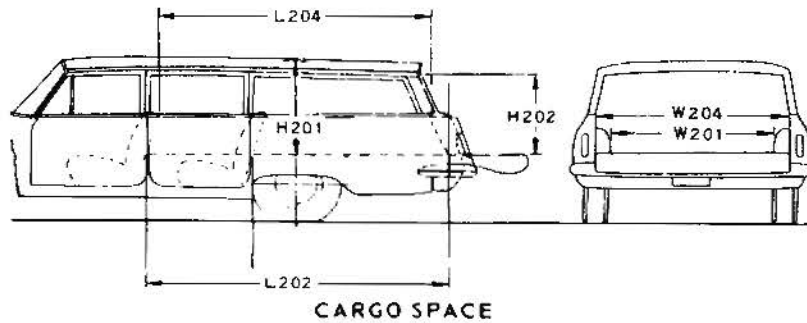
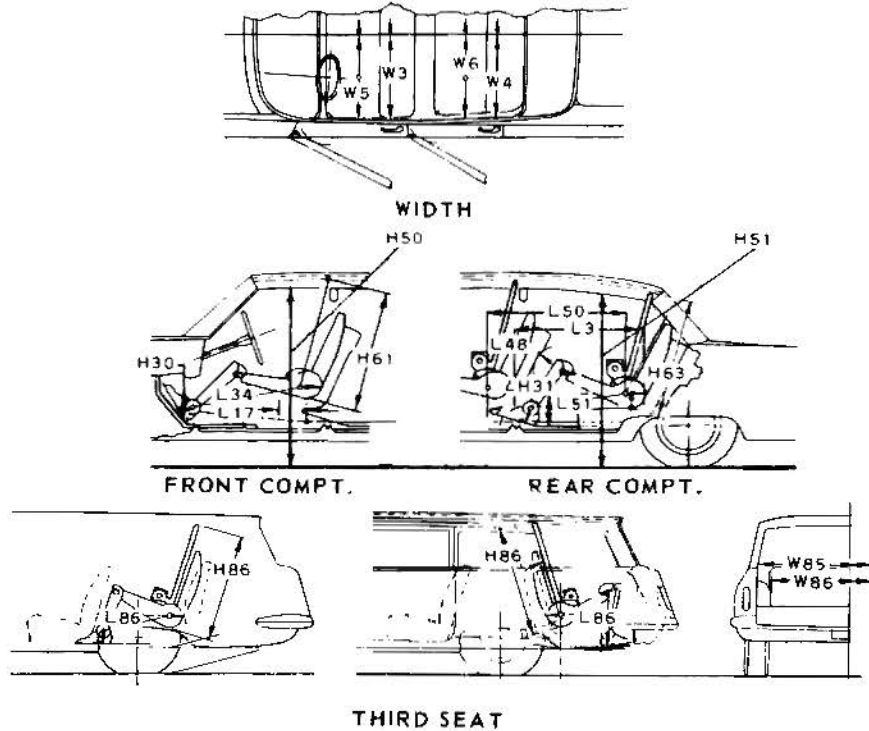
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

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

EXTERIOR LENGTH DIMENSIONS

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

EXTERIOR HEIGHT DIMENSIONS

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

GROUND CLEARANCE DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS (Cont.)

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

REAR COMPARTMENT DIMENSIONS

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

LUGGAGE COMPARTMENT DIMENSIONS

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

STATION WAGON - THIRD SEAT DIMENSIONS

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

STATION WAGON - CARGO SPACE DIMENSIONS

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

W4xL204xH201

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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
Car and Body Dimensions.....		Propeller Shaft, Universal Joints.....	16, 17
Width.....	1	Pumps - Oil, Fuel.....	8, 10
Length.....	1	Water.....	11
Height.....	1	Radiator, Hoses.....	11
Ground Clearance.....	1	Ratios - Axle.....	3, 17
Front Compartment.....	2	Compression.....	3, 4
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Luggage Compartment.....	2	Transmission.....	15, 16
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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
Cylinders and Cylinder Head.....	4	Steering.....	20
Dimension Definitions.....		Supply System.....	12
Key Sheet.....	25	Suppression - Ignition, Radio.....	13
Exterior & Interior.....	26	Suspension - Front & Rear.....	21
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