

AMA Specifications—Passenger Car

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MANUFACTURER FORD MOTOR COMPANY		CAR NAME COMET CYCLONE GT AND GTA
MAILING ADDRESS P. O. BOX 2053 - DEARBORN, MICHIGAN		MODEL YEAR 1966
		ISSUED: 10-1-65 REVISED (*)

NOTES:

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

<u>Body Type</u>	<u>Passengers</u>	<u>Bucket Seat Model</u>
<u>Comet Cyclone — GT & GTA</u>		
2-Door Hardtop	5	63H
2-Door Convertible	5	76H

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COMET CYCLONE

MAKE OF CAR GT & GTA MODEL YEAR 1966 DATE ISSUED 10-1-65 REVISED ^(*)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	2-Door Hardtop 63-H	2-Door Convertible 76-H
Wheelbase (L101)			116	
Track	Front (W101)		58.3	
	Rear (W102)		58.3	
Maximum Overall Dimensions	Length (L103)		203	
	Width (W103)		73.8	
	Height (H101)		54.3	54.0
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard — Full Synchronesh — Console Shift	
	Manual - 4 speed	15	Optional — Full Synchronesh — Console Shift	
	Overdrive	15	Not Available	
	Automatic	16	Optional — Merc-O-Matic and Sports Shift Merc-O-Matic Console Shift	
Axle ratio	Manual - 3 speed	17	See Page 4	
	Manual - 4 speed	17	See Page 4	
	Overdrive	17	Not Available	
	Automatic	17	See Page 4	
Tire size		18	See Page 18	
Engine	Type, no. cyl., valve arr.	3	90° V8, OHV	
	Fuel system (Carb., other)	10	4V — Carburetor	
	Bore and stroke	3	4.054 x 3.78	
	Piston displ., cu. in.	3	390	
	Std. compression ratio	3	10.5	
	Max. bhp at engine rpm	3	335 @ 4800	
	Max. torque at rpm	3	427 @ 3200	

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MAKE OF CAR GT & GTA

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	63-H	76-H
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FRONT COMPARTMENT

Shoulder room	W3	58.0	58.0
Hip room	W5	59.5	59.5
Max. eff. leg room - accelerator	L34	42.1	42.1
Effective head room	H61	38.1	38.4
H Point to Heel point	H30	8.9	8.9

REAR COMPARTMENT

Shoulder room	W4	56.7	56.7
Hip room	W6	58.3	48.8
Minimum effective leg room	L51	34.1	33.5
Effective head room	H63	36.7	36.5

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	17.0	
Liftover height	H195	29.1	
Position of spare tire storage		Angled Fwd. Back of Kick-up	Vert. in Deep Well
Method of holding lid open		Torsion Bars	

STATION WAGON—THIRD SEAT

Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
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	
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

63-H & 76-H

390-4V

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V8
Bore and stroke (nominal)	4.054 x 3.78
Piston displacement, cu. in.	390
Bore spacing (C/L to C/L)	4.63
No. system	L. Bank
(front to rear)	R. Bank
Firing order	1-5-4-2-6-3-7-8
Compres. ratio (nominal)	10.5:1
Cylinder Head Material	Cast Iron
Cylinder Block Material	Cast Iron
Cylinder Sleeve-Wet, dry, none	None
Number of mounting points	Front
	Rear
Engine installation angle	4°
Taxable horsepower	2.5
Formula: $\frac{D^2 \times N \times Cyl.}{2.5}$	52.49
Publishing max. bhp* @ eng. RPM	335 @ 4800
Publishing max. torque* (lb. ft. @ RPM)	427 @ 3200
Recommended fuel regular - premium	Premium
Idle speed (spec. neutral or drive)	Manual
	Automatic
	575 - 600 (Neutral)
	475 - 525 (Drive)

ENGINE—PISTONS

Material	Aluminum Alloy with Steel Struts
Description and finish	Autothermic Type, Tin Plated, Cam Ground
Weight (piston only) oz.	23.1
Clearance (limits)	Top land
	Skirt
	Top
	Bottom
Ring groove depth	No. 1 ring
	No. 2 ring
	No. 3 ring
	No. 4 ring

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

(a) At centerline of pin hole.

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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		Std.	Opt.	Locker
Cyclone GT and GTA 2-Door H. T. 2-Door Con- vertible	390	4V Premium	10.5	335@ 4800	427@ 3200	Manual 3-Speed	3.25:1	3.00:1	3.25:1
						Manual 4-Speed	3.25:1	3.00:1	3.25:1
						Merc-O-Matic and Merc-O-Matic Sports Shift	3.25:1	3.00:1	3.25:1

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 MODEL 63H & 76H
 390-4V

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	-
Compression	Description - material, coating, etc.	#1 Cast Iron Alloy, Inside Beveled, Molybdenum Filled Groove #2 Cast Iron Alloy, Straight Face, Scraper Groove, Phosphate Coated
	Width	.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: Blue Steel
	Width	.1875
	Gap	.015 - .055
Expanders		Integral with oil ring assembly

ENGINE—PISTON PINS

Material		Alloy steel - SAE-5015		
Length		3.150 - 3.170		
Diameter		.9752		
Type	Locked in rod, in piston, floating, etc.		Full floating tubular	
	Bushing	In rod or piston		In Rod
		Material		Bronze
Clearance	In piston		.0001 - .0003	
	In rod		.0001 - .0003	
Direction & amount offset in piston			Right .0625	

ENGINE—CONNECTING RODS

Material		Forged Steel - SAE-1041
Weight (oz.)		27.1
Length (center to center)		6.488
Bearing	Material & Type	Plated copper-lead alloy on steel back, replaceable inserts
	Overall length	.741
	Clearance (limits)	.0007 - .0028
	End play	.010 - .020 (Two Rods)

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MODEL _____

 63H & 76H
390-4V

ENGINE—CRANKSHAFT

Material		Precision molded cast iron alloy	
Vibration damper type		Rubber floated	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.004 - .008	
Main bearing	Material & type		Plated copper-lead alloy on steel back, replaceable inserts
	Clearance		.0007 - .0031
	Journal dia. and bearing overall length	No. 1	2.7488 x .907
		No. 2	2.7488 x .907
		No. 3	2.7488 x 1.119
		No. 4	2.7488 x .907
		No. 5	2.7488 x .907
		No. 6	-
		No. 7	-
Dir. & amt. cyl. offset		Right hand bank leads .84	
Crankpin journal diameter		2.4384	

ENGINE—CAMSHAFT

Location	In Block		
Material	Precision molded special alloy iron Induction hardened - phosphate coated		
Bearings	Material	SAE 15 - Lead base babbitt on steel back	
	Number	Five	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Sintered iron or steel
	Camshaft gear or sprocket material		Aluminum body with molded nylon teeth
	Timing chain	No. of links	48
		Width	.86
		Pitch	.50

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		Ford free turn - intake & exhaust
Rocker ratio		1.73:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Timing marks on flywheel, damper, other		Crankshaft Damper

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	18°
		Closes (°ABC)	72°
		Duration-deg.	270°
	Exhaust	Opens (°BBC)	68°
		Closes (°ATC)	22°
		Duration-deg.	270°
Valve opening overlap		40°	
Intake	Material		SAE-1047 Aluminized Steel Head
	Overall length		5.446
	Actual overall head dia.		2.022 - 2.037
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3711 - .3718
	Stem to guide clearance		.0010 - .0027
	Lift (@ zero lash)		.4809
	Outer spring press. and length	Valve closed (lb. @ in.)	85 # @ 1.82"
		Valve open (lb. @ in.)	267.5 @ 1.32"
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only
		Valve open (lb. @ in.)	Damper Only
Exhaust	Material		Aluminized Cast Austenitic Steel
	Overall length		5.426
	Actual overall head dia.		1.551 - 1.566
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3701 - .3708
	Stem to guide clearance		.0010 - .0027
	Lift (@ zero lash)		.4809
	Outer spring press. and length	Valve closed (lb. @ in.)	85 # @ 1.82"
		Valve open (lb. @ in.)	267.5 @ 1.32"
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only
		Valve open (lb. @ in.)	Damper Only

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

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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.)	Electrical
Type oil intake (flooding, 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 above - SAE 10W or SAE 30 20°F to 90°F - SAE 20-20W or SAE 10W-30 -10°F to 20°F - SAE 5W-20 or SAE 10W-30 or 10W 10°F to below - SAE 5W-20
Engine Service Requirement (MM, MS, etc.)	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Dual Reverse Flow
Exhaust pipe dia. (O.D., wall thickness)	2.00 Laminated .084
Branch	2.00 x .074
Main	2.00 - .060
Tail pipe diameter (O.D. & wall thickness)	

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	
Make and model		Ford, A/C or Chicago Screw Emission Valve
Location		Rocker Cover
Energy source (manifold vacuum, carburetor air stream, other)		Manifold Vacuum
Control method (variable orifice, fixed orifice, other)		Variable Orifice
Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake Manifold
Air inlet (breather cap, carburetor air cleaner, other)		Breather Cap - Carburetor Air Cleaner (a)
Flame arrester (screen, check valve, other)		Emission Valve

(a) Optional and as required by statute.

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ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		None
Air Injection Pump	Type	
	Displacement	
	Drive ratio	
	Drive type	
	Relief valve (type)	
Air Injection System	Filter (describe)	
	Air distribution (head, manifold, etc.)	
	Point of entry	
	Injection tube I.D.	
Carburetor	Check valve type	
	Backfire protection (type)	
	Make	
	Model	
Distributor	Barrel size	
	Idle speed	Drive Neutral
	Aux. Adv. Systems (type)	
	Make	
Distributor	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 (describe changes)		
Exhaust System (describe changes)		

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MODEL 63-II & 76-II
 390-4V

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.)		20 Gallons
	Filler location		Rear fill
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Left side front
	Pressure range		5.0 - 6.0 P.S.I.
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		#1 Accreted paper (disposable) #2 Wire cloth plastic
	Locations		#1 Integral with fuel pump #2 In fuel tank
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust heated manifold
	Air cleaner type	Standard	Dry - Replaceable element
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
<u>Model 63H</u> 2-Door Hardtop	390	3-Speed Manual and 4-Speed Manual	Holley 4 Bbl	C6OF-9510-M	(1) 4V	1.562 P 1.562 S
<u>Model 76-H</u> 2-Door Conv.	390	Merc-O-Matic Dual Range and Sport Shift	Holley 4 Bbl	C6OF-9510-N	(1) 4V	1.562 P 1.562 S

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MODEL

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure				
Radiator cap relief valve pressure	12-15 PSI				
Circulation	Type (choke, bypass)	Poppet valve			
thermostat	Starts to open at (°F)	192°			
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			
By-pass recirculation type (internal, external)	External				
Radiator core type (cellular, tube and fin, other)	Down flow, tube and fin				
Cooling system capacity	With heater (qt.)	20.5			
	Without heater (qt.)	19.5			
	Opt. 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, moulded		
		Inside diameter	1.75 @ Radiator 2.07 @ Water pump		
	Upper	Number and type (molded, straight)	One moulded		
		Inside diameter	1.50 @ Radiator 1.75 @ Outlet		
	By-pass	Number and type (molded, straight)	One, straight		
		Inside diameter	.576 - .620		
Code-belt Arrangement	1-2-3	3 & 4	4	1 & 3	
Fan	Number of blades & spacing	7	7	7	7
	Diameter	18-1/4	18-1/4	18-1/4	18-1/4
	Ratio-fan to crankshaft rev.	1.06:1	1.34:1	1.34:1	1.06:1
	Fan cutout type	(a)	(a)	(a)	(a)
	Bearing type				
* Drive belts (indicate belt used by letter)	Fan				
	Generator or alternator	* Same as Base Car with 390 Engine			
	Water Pump				
	Power Steering				
Air Conditioning					

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V		* Same as Base Car with 390 Engine									
Nominal length (SAE)											
Width											

1. Std. cooling
2. Extra cooling

3. Power steering
4. Selectaire A/C

(a) Thermo-modulated

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 MODEL 63-H & 76-H
390-4V

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Autolite C5AF-10655-C		
	Voltage Rtg. & Total Plates		12 V - 66 Plates		
	SAE Designation & Amp Hr. Rtg.		70 A.H.		
	Location		R.H. Front engine compartment		
	Terminal grounded		Negative		
Generator or Alternator	Make		Autolite - Leece Neville (optional)		
	Model		C6DF-10300-A	C6AF-10300-A	C6AF-10300-G
	Type and rating		38 AMP	42 AMP (a)	55 AMP (opt)
	Output at engine idle (neutral)		11-15	25-28	20-25
	Ratio—Gen. to Cr/s rev.		2.36:1	3.07:1	2.80:1 AC & Pwr St
Regulator	Make		Autolite		
	Model		38-42A	C5AF-10316-A	55A-C5TF-10316-A
	Type		Two unit - voltage control and field relay		
	Cutout relay	Closing voltage @ generator rpm	12.0 - 12.8 @ 1200		
		Reverse current to open	Open Circuit		
	Regu- lated	Voltage	14.1 - 14.7 @ 75°		
		Current			
	Voltage test conditions	Temperature	75°F		
		Load	5 AMPS		
		Other	-		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Ford		
	Model		C40F-11001-B		
	Rotation (drive and view)		Clockwise		
	Engine cranking speed		180 RPM @ 80°F		
	Test conditions		80°F		
	No load test	Amps	70		
		Volts	12.0		
		RPM (min)	9500		
Motor control	Switch (solenoid, manual)		Solenoid		
	Starting procedure		Turn key clockwise against spring tension to start		

(a) With Air Conditioning

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MODEL

63H-76H

390-4V

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Positive - Electro Mechanical	
	Pinion meshes (front, rear)			Front	
	Number of teeth	Pinion		9	
		Flywheel	Manual	160	
			Auto.	184	
	Flywheel tooth face width		Manual	365	
			Auto.	365	

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		N.A.
	Make		Ford
	Model		Fac - 12029 - A
	Amps	Engine stopped	4.5
Engine idling		2.5	
Distributor	Make		Ford
	Model		C60F - 12127 - J
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° @ 740
		Intermediate points deg. @ rpm.	10.5° @ 1100
			23° @ 4000
	Max. deg. @ rpm.	24.5° @ 4000	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0° @ 1"
		Intermediate points, deg. @ in. Hg.	9° @ 11"
			17.5° @ 15"
	Max. deg. in. Hg.	22.5° @ 20"	
	Breaker gap (in.)	.014 - .016	
	Cam angle (deg.)	26°	
	Breaker arm tension (oz.)	17 - 20	
Timing	Crankshaft deg. @ rpm.	10° @ 575	
	Mark location	Crankshaft Damper	
Spark Plug	Make	Autolite	
	Model	BF-42	
	Thread (mm)	18	
	Tightening torque (lb. ft.)	15 - 20	
Cable	Gap	.032 - .036	
	Conductor type	Resistance Core	
	Insulation type	Neoprene Sheath	
	Spark plug protector	Hypalon Boot	

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MODEL 63H & 76H
390-4V

ELECTRICAL—SUPPRESSION

Locations & type

Built-In Capacitor at Alternator, Capacitor at Voltage Regulator Wheel
Static Collectors in Front Wheels Resistance Core Ignition Cable

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	Ford
	Trip odometer (yes, no)	No
Charge indicator—type		Electric Gage
Temperature indicator—type		Electric Gage
Oil pressure indicator—type		Warning Light
Fuel indicator—type		Electric Gage
Other		
Windshield wiper	Make	Ford
	Type—Standard	Single Speed Electric
	Type—Optional	Interval Selector with Single Speed Electric
	Vacuum booster provision	None
	Washer provision	Electric Pump
Horn	Type	Air Electric
	Number used	(2) Two
	Amp draw (each)	5.5

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Long Manufacturing, Single Disc Dry Plate
Type pressure plate springs		Coil
Total spring load (lb.)		1944
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	11.5 x 7.0
	Total eff. area (sq. in.)	130 Sq. In.
	Thickness	.125
	Engagement cushioning method	Torbend Disc
Release bearing	Type & method of lubrication	Ball Thrust, Prepacked Seal
Torsional damping	Methods: springs, friction material	Spring Steel

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DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

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

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		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	Summer
		Winter
		Extreme cold

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DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Merc-O-Matic and Sport Shift Merc-O-Matic	
Type describe	Torque Converter with Planetary Gears	
Method of Selection (Lever, Push Button or other)	Console Shift Lever	
Selector Pattern	Merc-O-Matic P-R-N-.-○-L	Sport Shift M-O-M P-R-N-D-2-1
List gear ratios Selector Pattern and Indicate which are used in each selector position	P - Park R - Reverse N - Neutral . - D ₂ Range ○ - D ₁ Range L - Manual Low	Gear Ratios both trans. R - 2.18 3 - 1.00 2 - 1.46 1 - 2.46
Max. upshift speeds—drive range	1-2 - 35-42 MPH.	2-3 - 66-76 MPH
Max. kickdown speeds—drive range	3-1 - 24-31 MPH.	3-2 - 59-68 MPH
Torque converter	Number of elements	Three
	Max. ratio at stall	2.10
	Type of cooling (air, liquid)	Rad. coolant through heat exchanger in radiator
Lubricant	Capacity—refill (pt.)	Total 13.3 Qts.
	Type recommended	Type "A" transmission fluid or M2C33D
Special transmission features	Merc-O-Matic - D ₂ has a 2 to 3 shift D ₁ has a 1-2-3 shift Sport Shift M-O-M - D is Automatic 1-2-3 Shift 1 and 2 are Manual Low & Second	

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed	
Outer diameter × length* × wall thickness	Manual 3-speed transmission	3.00 x 57.43 x .065
	Manual 4-speed transmission	3.00 x 57.43 x .065
	Overdrive transmission	N.A.
	Automatic transmission	3.00 x 54.03 x .065

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

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DRIVE UNITS—PROPELLER SHAFT (cont.)

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

DRIVE UNITS—REAR AXLE

Description		Conventional rear axle, with semi-floating axle shafts and straddle mounted pinion gear
Limited Slip differential, type		Friction clutch
Drive Pinion Offset		2.25
No. of differential pinions		2
Ring gear O.D. (std. ratio)		9"
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Shim
Wheel bearing type		Single row double sealed ball bearing
Lubricant	Capacity (pt.)	4.5
	Type recommended	M-2C57-A
	SAE viscosity number	Summer
		90
		Winter
		90
		Extreme cold
		90

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		3.25	3.00
No. of teeth	Pinion	12	13
	Ring gear	39	35

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DRIVE UNITS—WHEELS

Type & material		Stamped steel disc
Rim (size and flange type)	Std.	14 x 5.5
	Opt.	-
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.50
	Number and size	Five 1/2-20

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75 x 14 4 Ply rated
	Type - Nylon, etc.	Nylon
Rev./mile at 50 mph.		778
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.)			Single
Power brake make & type (remote, integral, etc.)			Midland-Ross Integral Vacuum Booster
Effective area (sq. in.) *			147.1
Gross lining area (sq. in.) **			171.9
Swept drum area (sq. in.) ***			282.6
Percent brake effectiveness—front			59.3
Drum or Rotor	Diameter	Front	10x2.5
		Rear	10x2.0
	Type and material		Front: Full cast iron rear composite
	Rotor (vented or solid)		-
	No. pistons per caliper		-
Wheel cyl- inder bore	Front	1.094	
	Rear	.906	
Master cylinder bore			1.00
Available pedal travel			6.55
Line pressure at 100 lb. pedal load			760 PSI
Shoe clearance adjustment			.015

* 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.

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BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Drum
	Bonded or riveted		Riveted
	Front Wheel	Material	Molded Asbestos
		Size (length x width x thickness)	8.35 x 2.5 x .214
		Prim. or out-board	
		Second, or in-board	
	Segments per shoe		One
	Rear Wheel	Material	Molded Asbestos
		Size (length x width x thickness)	8.35 x 2.0 x .214
		Prim. or out-board	
		Second, or in-board	
	Segments per shoe		One

BRAKES—PARKING

Type of control	Foot operated, hand release
Location of control	Left of steering column
Operates on	Rear service
If separate from service brakes	None
Type (internal or external)	-
Drum diameter	-
Lining size (length x width x thickness)	-

FRAME

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

STEERING

Manual (std., opt., NA)			Standard
Power (std., opt., NA)			Optional
Adjustable steering wheel (tilt, swing, other)		Type and description	
		(std., opt., NA)	N.A.
Wheel diameter		Manual	16
		Power	16
Turning diameter	Outside front	Wall to wall (l. & r.)	44.4
		Curb to curb (l. & r.)	41.5
	Inside rear	Wall to wall (l. & r.)	25.3
		Curb to curb (l. & r.)	26.0
Outside wheel angle with inside wheel at 20°			18° 3'
Manual	Gear	Type	Recirculating ball and nut
		Make	Ford
		Ratios	22:1
		Gear	29.4:1
	Overall		29.4:1
No. wheel turns			5.0 Lock to lock

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STEERING (cont.)

Power	Type (coaxial, linkage, etc.).			Linkage booster	
	Make			Bendix	
	Gear	Type		Recirculating ball and nut	
		Ratios	Gear	16:1	
			Overall	21.6:1	
	Pump driven by			Belt of crankshaft pulley	
Number wheel turns			3.5 Lock to lock		
Linkage	Type			Parallelogram	
	Location (front or rear of wheels, other)			Rear of wheels	
	Drag link (trans. or longit.)			Transverse	
	Tie rods (one or two)			Two	
Steering Axis	Inclination at camber (deg.)			7.5°	
	Bearings (type)	Upper		Ball Joint - Teflon coated fabric washer	
		Lower		Ball Joint - Teflon coated fabric washer	
		Thrust		Spring loaded upper and lower ball	
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		-1° to +1°		0° Preferred
	Camber (deg.)		-1/2° to +1°		1/4° Preferred
	Toe-in (outside track inches)		1/8" to 3/8"		1/4" Preferred
Steering spindle & joint type				Integral assembly with ball socket joint	
Wheel spindle	Diameter	Inner bearing		1.25 I. D.	
		Outer bearing		.75 I. D.	
	Thread size		3/4" - 16NF3		
	Bearing type		Tapered roller		

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SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	None
Provision for brake dip control	Tilted upper control arm anti-dive front suspension
Provision for acc. squat control	Asymmetrical type rear spring mounting
Special provisions for car jacking	Bumper notches lower edge of bumper
Shock absorber front & rear	Direct acting, rebound cut-off front
Type	
Make	Ford Autolite
Piston dia.	1.18"
Other special features	

SUSPENSION—FRONT

Type and description	Independent S. L. A. suspension with ball joints and coil spring
Spring	Coil
Material	SAE 5160 steel
Size (coil design height & I.D.; bar length x dia.)	10.61" x 3.86" 124" bar length, .66" bar diameter
Spring rate (lb. per in.)	365
Rate at wheel (lb. per in.)	119
Stabilizer	Link type
Type (link, linkless, frameless)	
Material & bar diameter	SAE 1090, .85" Dia.

SUSPENSION—REAR

Type and description	Hotchkiss drive
Drive and torque taken through	Rear spring
Spring	Semi-Elliptic leaf
Material	Spring steel SAE-5160
Size (length x width, coil design height & I.D.; bar length & dia.)	58.0" x 2.5"
Spring rate (lb. per in.)	138
Rate at wheel (lb. per in.)	146
Mounting insulation type	Rubber bushings
If leaf	No. of leaves
	4
Shackle (comp, ortens)	Compression
Stabilizer	None
Type (link, linkless, frameless)	
Material	-
Track bar type	-

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BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Enamel
Hood counterbalanced (yes, no)		Rear
Hood release control (internal, external)		Yes-external
Vehicle Ident. No. location		Dash panel—in engine compartment
Engine No. location		Under coil mounting strap
Theft protection - type		Door locks, ignition key start, theft retarder ign. switch
Vent window control method (crank, friction pivot)	Front	Friction pivot
	Rear	N.A.
Seat cushion type	Front	Formed wire springs, comb. cotton and foam pads
	Rear	Formed wire springs, white cotton pads
	3rd seat	-
Seat back type	Front	Formed wire springs, cotton pads
	Rear	Formed wire springs, cotton pads
	3rd seat	-
Windshield glass type (i.e., single curved - laminated plate)		Double curved-laminated plate
Side glass type (i.e., curved - tempered plate)		Single curved-tempered sheet
Backlight glass type (i.e., compound curved - tempered plate, three piece)	Compound curved tempered sheet	Flat tempered sheet
Windshield glass exposed surface area	1028	1022
Side glass exposed surface area	1342	1133
Backlight glass exposed surface area	1211	709
Total glass exposed surface area	3582	2864

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	31.5
		Lowest	23.9
	Tail	Highest	24.6
		Lowest	-
Distance from C/L of car to center of bulb	Headlamp	Upper	30.8
		Lower	Same
	Tail	Inside	27.4
		Outside	-
	Directional	Front	
		Rear	27.4

* If single headlamps are used enter here.

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CONVENIENCE EQUIPMENT

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

Power windows	Side Windows	Optional
	Vent Windows	NA
	Backlight or tailgate	-
Power seats (specify type as well as availability)	Power bucket seat - drivers side only	
Reclining front seat back	NA	
Front seat headrest	NA	
Radios (specify type as well as availability)	AM - All transistor - optional AM - FM All transistorized optional	
Rear seat speaker	Optional	
Power Antenna	NA	
Clock	Optional	
Air Conditioner (specify type and availability)	Optional - integrated in instrument panel	
Speed warning device	NA	
Speed control device	NA	
Ignition lock lamp	-	
Back up lamp	Standard	
Dome lamp	Standard	
Glove compartment lamp	Optional	
Prkg. brake signal lamp	Optional	
Luggage compartment lamp	Optional	
Underhood lamp	Optional	
Courtesy lamp	Standard	
Map lamp	-	
Auto. trans. quad. lamp	Standard	
Emergency flasher lamp	Standard	
Cornering light lamp	NA	

