

AMA Specifications – Passenger Car

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MANUFACTURER Ford Motor Company	CAR NAME Ford with High Performance Packages	
MAILING ADDRESS 20,000 Rotunda Drive, Dearborn, Michigan	MODEL YEAR 1961	ISSUED: 11-10-60 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 the standard model without optional equipment. Significant deviations are noted.
 - b. Specifications apply basically to 4-door sedan or equivalent.
 - c. 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.

The High Performance Packages in this A.M.A. Specification are available in all 1961 Ford Passenger Car models, except Station Wagons.

Body models are listed in the basic Ford A.M.A. issued separately.

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High Performance

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	All Models Except Station Wagon
Wheelbase (L-101)		23	119.0
Tread	Front (W-101)	24	61.0
	Rear (W-102)	24	60.0
Maximum Overall Dimensions	Length (L-103)	23	209.9
	Width (W-103)	24	79.9
	Height (H-101)	22	55.0" all except 63A - 54.5" 76B - 53.3
Transmission— (Specify trade name - opt., not available)	Manual	13	Standard
	Overdrive	14	Optional
	Automatic	14	Not Available
Axle ratio	Manual	15	3.56:1 *
	Overdrive	15	4.11:1 *
	Automatic	15	Not Available
Tire size		16	6.70 x 15 - 4 PN Optional - 7.10 x 15 - 4 PN X
Engine	Type, no. cyl., valve arr.	2	90° V8 - 4V OHV.
	Fuel system (Carb., other)	6	4V - Carb.
	Bore and stroke	2	4.05 x 3.78
	Piston displ., cu.in.	2	390
	Std. compression ratio	2	10.6 : 1 (Nominal)
	Max. bhp at engine rpm	2	375 @ 6000
	Max. torque at rpm	2	427 @ ³⁴⁰⁰ 3200

* Optional ratios available.

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3.00:1	4.11:1	5.43:1
3.10:1	4.29:1	5.67:1
3.22:1	4.57:1	5.83:1
3.40:1	4.72:1	
3.56:1	4.86:1	
3.89:1	5.14:1	

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MODEL _____ All Models Except Station Wagon

ENGINE—GENERAL

Type, no. cyls., valve arr.	V Type 8 Cyl. OHV	
Bore and stroke (nominal)	4.05 x 3.78	
Piston displacement, cu. in.	390	
Bore spacing (C/L to C/L)	4.63	
No. system (front to rear)	L. Bank	5-6-7-8
	R. Bank	1-2-3-4
Firing order	1-5-4-2-6-3-7-8	
Compres. ratio (nominal)	10.6:1	
Cylinder Head Material	Cast Iron	
Cylinder Sleeve—Wet, dry, none	None	
Number of mounting points	Front	Two
	Rear	One
Engine installation angle	4° 40'	
Taxable horsepower	$\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$	52.49
Published max. bhp* @ eng. RPM	375 @ 6000	
Published max. torque* (lb. ft. @ RPM)	427 @ 3200 ³⁴⁰⁰	
Recommended fuel regular - premium	Premium	
Idle speed (spec. neutral or drive)	Manual	700 RPM
	Automatic	Not Available

ENGINE—PISTONS

Material	Aluminum
Description and finish	Autothermic Type - Slipper Skirt
Weight (piston only) oz.	24.41 - 24.62

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BPH @ RPM	Torque @ RPM		
All Except Station Wagon	V8 390	4V	11.1 Max.	375 @ 6000	427 @ 3400	Manual Overdrive	3.56 * 4.11 *
Additional Limits and Specifications							
* Top of Block to Top of Piston .010 to .030 inches.							
* Piston to Deck Height							
						Piston to Deck Volume	
						13.3 C.C.	
						14.4 C.C.	
						15.4 C.C.	
						16.5 C.C.	
						17.5 C.C.	
Cylinder Head Gasket						5.5 C.C.	

* See page #1 for optional ratios available.

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Volume of cylinder head combustion chamber (with valves and spark plug in place)
56.2 to 61.0 C.C. Ref.

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MODEL _____ All Except Station Wagon

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.036 - .043
	Skirt	Top	.0045 - .0049 (Center line of piston pin)
		Bottom	
Ring groove depth	No. 1 ring		.1890 - .1960
	No. 2 ring		.1890 - .1960
	No. 3 ring		.1855 - .1925
	No. 4 ring		-----

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.		-----
Compression	Description - material, type, coating, etc.		#1 Plain face cast iron, alloy chrome plated #2 Plain, scraper groove cast iron alloy, phosphated coated.
	Width		#1 .0774 - .0781 #2 .0930 - .0960
	Gap		.010 - .020
Oil	Description - material, type, coating, etc.		Three piece, sectional blued expanders SAE 1070 steel rail chrome plated.
	Width		3/16 nominal - snug in groove
	Gap		.015 - .055
Expanders		Integral with Oil Ring	

ENGINE—PISTON PINS

Material		Alloy steel heat treated	SAE 5015 Steel
Length		3.212 - 3.202	
Diameter		.9750 - .9753	
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		.0003 - .0005
Direction & amount offset in piston		To Right - .0575 - .0675	

ENGINE—CONNECTING RODS

Material		Forged steel with separately forged caps	
Weight (oz.)		25.25 - 25.68	
Length (center to center)		6.486 - 6.490	
Bearing	Material & Type		Steel backed, Copper-lead alloy replaceable inserts.
	Overall length		.736 - .746
	Clearance (limits)		.0009 - .0029
	End play		.014 - .024 (Two Rods)

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MODEL _____ All Except Station Wagon

ENGINE—CRANKSHAFT

Material		Precision molded alloy cast iron	
Vibration damper type		Rubber floated	
End thrust taken by bearing (No.)		#3	
Crankshaft end play		.004 - .008	
Main bearing	Material & type		Steel backed copper-lead alloy Replaceable inserts
	Clearance		.0010 - .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		None	
Crankpin journal diameter		2.4380 - 2.4388	

ENGINE—CAMSHAFT

Location		In Block	
Material		Precision molded special alloy iron	
Bearings	Material	Steel backed babbitt; replaceable inserts	
	Number	Five	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Sintered iron or steel
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	48
		Width	.86
		Pitch	.50

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		N.A.	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.76 : 1	
Operating tappet clearance (indicate hot or cold)	Intake	.025	* Hot
	Exhaust	.025	* Hot
Timing marks on flywheel, damper, other		Pointer on Front Cover	

* Hot setting is to be made after a minimum of thirty minutes (Continued)
@ 1200 RPM (no load).

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 MODEL _____ All Except Station Wagon

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	24° 30'	@ .025 Valve Clearance Cold
		Closes (°ABC)	73° 30'	@ .025 Valve Clearance Cold
		Duration - deg.	278°	@ .025 Valve Clearance Cold
	Exhaust	Opens (°BBC)	72° 30'	@ .025 Valve Clearance Cold
		Closes (°ATC)	25° 30'	@ .025 Valve Clearance Cold
		Duration - deg.	278°	@ .025 Valve Clearance Cold
Intake	Valve opening overlap			
	Material		Special Alloy Valve Steel (Aluminum Coated)	
	Overall length		5.446	
	Actual overall head dia.		2.022 - 2.037	
	Angle of seat & face		121° - 121° 30'	
	Seat insert material		None	
	Stem diameter		.3718 .3711	
	Stem to guide clearance		.0010 - .0024	
	Lift		.479	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 - 90 lbs. @ 1.82"	
		Valve open (lb. @ in.)	255 - 280 lbs. @ 1.32"	
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only	
		Valve open (lb. @ in.)	-----	
Exhaust	Material		214N Forged Steel (Aluminum Coated)	
	Overall length		5.426	
	Actual overall head dia.		1.551 - 1.566	
	Angle of seat & face		91° 30' - 91°	
	Seat insert material		None	
	Stem diameter		.3693 - .3700	
	Stem to guide clearance		.0028 - .0042	
	Lift		.479	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 - 90 lbs. @ 1.82"	
		Valve open (lb. @ in.)	255 - 280 lbs. @ 1.32"	
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only	
		Valve open (lb. @ in.)	-----	

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Oil Mist
	Camshaft bearings	Pressure
	Tappets	Splash
	Timing gear or chain	Splash
	Cylinder walls	Indexed Pressure Stream

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MODEL _____ All Except Station Wagon

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor
Normal oil pressure (lb. @ engine rpm)	52-62 PSI @ 2000
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary Shrouded Screen in Sump
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Replacement Can Type
Capacity of crankcase, less filter-refill (qt.)	5 *
Oil grade recommended (SAE viscosity and temperature range)	SAE 30 or 10W-30 above 90° SAE 20 or 20W or 10W-30 - 20° to 90° F. SAE 5W-20, 10W or 10W-30, -10° F to 20° F. SAE 5W-20 Below -10° F.
Engine Service Requirement (MM, MS, etc.)	MS

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	6" Round - Reverse Flow
Exhaust pipe dia. (O.D.)	2.0 x .084 Laminated
Branch wall thickness	2.0 x .075 Solid
Main wall thickness	Integral with Muffler
Tail pipe diameter (O.D. & wall thickness)	

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.	Carburetor
Fuel Tank	Capacity (gals.) 20
	Filler location Center Back Panel
Fuel Pump	Type (elec. or mech.) Mechanical
	Locations Left Side on Front Cover
	Pressure range 5.5 - 6.5 PSI
Vacuum booster (std., optional, none)	None
Fuel Filter	Type Wire Cloth - Plastic and Paper
	Locations Wire Cloth-Plastic in Tank - Paper in Fuel Line
	Make & Model No. Holley
	Number of carbs., bbls. per carb. & type One Four Barrel
	Barrel size 1.560 Primary & Secondary
Carburetor	Choke type Automatic
	Intake manifold heat control (exhaust or water) Exhaust
	Air clnr. type Standard Dry Replaceable Element
	Optional

* Opt. Oil Cooler & 7 quart oil pan available.

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MODEL _____ All Except Station Wagon

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure			
Radiator cap relief valve pressure	12 - 15 lbs.			
Circulation thermostat	Type (choke, bypass)	Choke - Poppet Type		
	Starts to open at (°F)	175° - 180° F.		
Water pump	Type (centrifugal, other)	Centrifugal		
	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)	Cross Flow, Tube & Corrugated Fin			
Cooling system capacity	With heater (qt.)	20.0		
	Without heater (qt.)	19.0		
	Opt. equipment-specify (qt.)	____		
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 Formed	
		Inside diameter	1.75"	
	Upper	Number and type (molded, straight)	One Formed	
		Inside diameter	1.75	
	By-pass	Number and type (molded, straight)	One Straight	
		Inside diameter	.576 - .620	
	Fan	Number of blades & Spacing	5 Uneven	(a) 4 Even (b) 4 Even
		Diameter	18.5	18.0 14.0
Ratio-fan to crankshaft rev.		.90:1	.90:1 .90:1	
Fan cutout type		None		
Bearing type		Same as Water Pump		
*Drive belts (indicate belt used by letter)	Fan	See Below		
	Generator	See Below		
	Water Pump	See Below		
	Power Steering	Not Available		
	Air Conditioning	Not Available		

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* Drive Belt Dimensions	
Angle of V	36°
Nominal length (SAE)	45.31
Width	.38

* Opt. Extra Cooling Radiator

(a) and (b) Optional Fans

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MAKE OF CAR Ford High Performance MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED _____

MODEL _____ All Except Station Wagon

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Various
	Voltage Rtg. & Total Plates		12 Volts - 66 Plates - 6 Cells
	SAE Designation & Amp Hr. Rtg		55
	Location		Engine Compartment Right Front
	Terminal grounded		Negative
Generator	Make		Ford
	Model		_____
	Type		Shunt
	Ratio—Gen. to Cr/s rev.		1.55:1
	Gen. cut-in (hot)—engine rpm		880 RPM
Regulator	Make		Ford or American Bosch
	Model		_____
	Type		Three Coil
	Cutout relay	Closing voltage @ generator rpm	12.4 - 13.2 @ 1200
		Reverse current to open	8 AMP Max. @ 12.2 Volts
	Regu- lated	Voltage	14.6 - 15.4 @ 75° F.
		Current	28 - 32
	Voltage test con- ditions	Temperature	75°
		Load	5 Amperes
		Other	_____

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Ford
	Model		FAR-11001-A
	Rotation (drive end view)		Clockwise
	Engine cranking speed		150 - 180 RPM
	Test conditions		85 °F
	Lock test	Amps	58
		Volts	5
		Torque (lb. ft.)	14.8
	No load test	Amps	110
		Volts	12
		RPM (min.)	5200
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Turn ignition key to right beyond the "on position"

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MAKE OF CAR Ford High Performance MODEL YEAR 1961 DATE ISSUED 11-10-60 REVISED _____

MODEL _____ All Except Station Wagon

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Bendix Folo-Thru
	Pinion meshes (front, rear)		Rear
	Number of teeth	Pinion	Synchro - 9
		Flywheel	Synchro - 146
	Flywheel tooth face width		.335 - .375

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Ford
	Model		FAY 12029-A
	Amps	Engine stopped	4.5
		Engine idling	2.5
Distributor	Make		Ford
	Model		COAA 12127-K
	Cent'fgal adv. in crankshaft degrees@ engine rpm (nominal)	Start (rpm)	0° @ 800 RPM
		Intermediate points deg.@rpm	13° @ 1400 RPM
		Max deg. @ rpm	26° @ 4400 RPM
	Vacuum adv. in crankshaft degrees@ in. Hg. (nominal)	Start (in Hg)	None
		Intermediate points,deg@in Hg	None
		Max. deg. in. Hg.	None
	Breaker gap (in.)		.019 - .021 *
	Cam angle (deg.)		26° - 28.5° *
	Breaker arm tension (oz.)		27 to 32 oz. *
	Timing	Crankshaft deg. @ rpm.	
Mark location		Vibration Damper	
Cylinder numbering system (see page 2)		R - 1-2-3-4 L - 5-6-7-8	
Firing order (see page 2)		Page #2	
Spark Plug	Make and model		F-9-Y
	Thread (mm)		18 MM
	Tightening torque (lb. ft.)		20-30
	Gap		.032 - .036
Cable	Conductor type		Steel
	Insulation type		Neopreme Sheath
	Spark plug protector		Hypalon Boot

ELECTRICAL—SUPPRESSION

Locations & type	Capacitors @ the generator and generator regulator - wheel static collectors in front wheel.
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* Dual point distributor is used.

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MAKE OF CAR Ford High Performance MODEL YEAR 1961 DATE: ISSUED 1-10-60 REVISED _____

MODEL _____ All Models Except Station Wagons

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	King Seeley or Ford
	Trip odometer (yes, no)	No
Charge indicator—type		Warning Light
Temperature indicator—type		Electric Gage
Oil pressure indicator—type		Warning Light
Fuel indicator—type		Electric Gage
Other		To Left: Accessories "on"
Ignition switch	Identify positions in order and circuits controlled	To Left: Accessories "on" Center: Accessories and Engine "Off" To Right: First Position: Accessories and Engine "On" Second Position: Starter and Engine "on" with Accessories "Off"
	Provision for illumination	None
	Location	— right —
Main light-ing switch	Identify positions and lamps controlled	Pull Out: - 1st position: Parking, Taillights, License and Instru-ment Panel Lights. 2nd. Position: Headlights, Taillights, License and Instrument Panel Lights. Rotate knob clockwise to dim inst. panel lights, and counter-clockwise to brighten inst. panel lights and turn dome lamp and/or courtesy lamp on.
Other light switches	Locations and lamps controlled	Courtesy lamp brightness control-concentric with headlamp switch. Variable all instruments: stop lamp switch on master cylinder. Dome lamp-automatic switch-both front doors. Turn signal lamps-control switch in steering column.
Other switches	Locations and de-vices controlled	
Windshield wiper	Make	Ford
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Air Electric
	Number used	Two
	Amp draw (each)	10

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MODEL	All Models Except Station Wagons
1965	1965
1966	1966
1967	1967
1968	1968
1969	1969
1970	1970
1971	1971
1972	1972
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2105	2105
2106	2106
2107	2107
2108	2108
2109	2109
2110	2110
2111	2111
2112	2112
2113	2113
2114	2114

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002. Indicate accessories which are not standard equipment by an asterisk following the numbers.

[illegible]

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MODEL _____

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a).

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

* If single headlamps are used enter here.

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MODEL _____ All Except Station Wagons

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Long Mfg. - Semi-centrifugal
Type pressure plate springs		Coil
Effective plate pressure (lb.)		1710
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	11.0 x 7.0
	Total eff. area (sq.in.)	113.10
	Thickness	.125
	Engagement cushioning method	Torbend Disc with Vibration Damper
Release bearing	Type & method of lubrication	Pre-packed Sealed Ball Thrust
Torsional damping	Methods: springs, friction material	Spring Steel

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	Optional
Automatic (std. or opt.)	Not Available

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		Three
Transmission ratios	In first	2.37:1
	In second	1.51:1
	In third	1:1
	In fourth	----
	In reverse	2.81:1
Synchronous meshing, specify gears		Second and Third
Shift lever location		Steering Column
Lubricant	Capacity (pt.)	3.5
	Type recommended	Mild Extreme Pressure
	SAE viscosity number	Summer
		SAE 80
		Winter
		SAE 80
		Extreme cold
		SAE 80

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MODEL _____ All Except Station Wagons

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Planetary	
	Manual lockout (yes, no)		Yes	
	Downshift accelerator control (yes, no)		Yes	
	Minimum cut-in speed		28 MPH (Approx.)	
	Gear ratio		2.49:1 1st. 1.59:1 2nd. 1.00:1 3rd. 0.72 Overdrive	
	Lu- bri- cant	Capacity (pt.) (Overdrive only)	1.72	3.15:1 Reverse
		Separate filler (yes, no)	Yes	
		Type recommended	Mild- Extreme Pressure	
		SAE viscosity number	SAE-80	
		Ext. cold	SAE-80	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	
Type describe	
Method of Selection (Lever, Push Button or other)	
Selector Pattern	
List gear ratios Selector Pattern and indicate which are used in each selector position	
Max. upshift speeds—drive range	
Max. kickdown speeds—drive range	
Torque converter	Number of elements
	Max. ratio at stall
	Type of cooling (air, water)
Lubricant	Capacity—refill (pt.)
	Type recommended
Special transmission features	

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DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	3.00 x 56.54 x .065	
	Overdrive transmission	3.00 x 56.54 x .065	
	Automatic transmission	-----	
Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lubrication (fitting, prepack)	None	
Universal joints	Make	Cleveland	
	Number used	Two	
	Type (ball and trunnion, cross, other)	Cross	
	Bearing	Type (plain, anti-friction)	Needle
		Lubric. (fitting, prepack)	Pre-Packed
Drive taken through (torque tube or arms, springs)		Springs	
Torque taken through (torque tube or arms, springs)		Springs	

DRIVE UNITS—REAR AXLE

Description - (incl. limited slip differential)		Semi-Floating Hypoid
Drive Pinion Offset		2.25
No. of differential pinions		Four
Gear ratio and No. of teeth	Manual transmission	See Page #1
	Overdrive transmission	See Page #1
	Automatic transmission	None
Ring gear pitch diameter & O.D.		8.75 x 1.38
Pinion adjustment (shim, other)		Shims
Pinion bearing adj. (shim, other)		Collapsible Spacer
Wheel bearing type		Single row, doubled sealed ball bearing
Lubricant	Capacity (pt.)	4.5
	Type recommended	Hypoid Extreme Pressure
	SAE viscosity number	SAE-90
	SAE viscosity number	SAE-90
		SAE-80

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

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MODEL All Except Station Wagon

DRIVE UNITS—WHEELS

Type & material	Stamped Steel Disc
Rim (size and flange type)	15 x 5 $\frac{1}{2}$ (a)
Attachment	Stud
Circle diameter	4.5
Number and size	5- $\frac{1}{2}$ x30

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	670 x 15 (b)
	Type - Nylon, etc.	Nylon
Rev/mile at 30 mph.		
Inflation press.(cold)	Front	30 PSI
	Rear	30 PSI

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)	Hydraulic, Duo Servo
Power brake make & type (remote, integral, etc.)	Spindle Anchor Frt. - Fixed Anchor Rear
Effective area (sq. in.)*	Not Available
Gross lining area (sq. in.)**	190
Swept drum area (sq. in.)***	234
Percent brake effectiveness—front	381
Drum	54%
Diameter	Front 11.03 x 3.0
	Rear 11.03 x 2.5
Type and material	Composite, Pressed Steel Disc & Cast Iron Drums
Bonded or riveted	Riveted
Material	Molded Asbestos
Front Shoe	Size (length x width x thickness) Front wheel 9.35 x 3.0 x 0.207
	Rear wheel 9.35 x 2.5 x 0.207
Segments per shoe	One
Material	Molded Asbestos
Rear Shoe	Size (length x width x thickness) Front wheel 11.96 x 3.0 x 0.290
	Rear wheel 11.96 x 2.5 x 0.227
Segments per shoe	One
Wheel cyl-inder bore	Front 1.094
	Rear .94
Master cylinder bore	1.00
Available pedal travel	7.20 inch
Line pressure at 100 lb. pedal load	705 PSI
Shoe clearance adjustment	.010

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes:

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

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(a) 14 x 5 $\frac{1}{2}$ J and 14 x 6K optional

(b) 750 x 14 and 800 x 14 also 710 x 15 optional

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MODEL _____ All Except Station Wagons

BRAKES—PARKING

Type of control	Foot
Location of control	Under Instrument
Operates on	Rear Service Brakes
If separate from service brakes	Type (internal or external)
	Drum diameter
	Lining size (length x width x thickness)

FRAME or UNITIZED CONSTRUCTION

Type and description	Ladder Type with Full Length Boxed Side Rails and (5) crossmembers
----------------------	--

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

Provision for car leveling	None
Provision for brake dip control	Geometry Semi-elliptic splay
Provision for acc. squat control	Asymmetrical type spring mounting
Special provisions for car jacking	None
Shock absorber front & rear	Type
	Make
	Piston dia.
	Direct Acting
	Various
	1 3/16
Other special features	

SUSPENSION—FRONT

Type and description	Independent S.L.A. suspension with ball joints and coil springs.
----------------------	--

(Continued)

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* Air Suspension:
 Air spring type
 Compressor data
 type
 make
 drive ratio
 Normal operating pressures
 spring rates
 leveling data

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SUSPENSION FRONT (cont.)

Spring	Type	Coil	
	Material	Steel SAE 9260 - 5160	
	Size (coil design height & I.D.; bar length x dia.)	10.45 x 4.03	132.35 x .725
	Spring rate (lb. per in.)	500	
	Rate at wheel (lb. per in.)	130	
	Design load (lb. @ design height)	2325	2425
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SAE 1090	.62 dia. and opt. .75 dia.

STEERING

Mechanical (std., opt., NA)			Standard
Power (std., opt., NA)			N/A
Wheel diameter			17"
Turning diameter	Outside front	Wall to wall (l. & r.)	45.95
		Curb to curb (l. & r.)	41.12
	Inside rear	Wall to wall (l. & r.)	25.82
		Curb to curb (l. & r.)	26.62

Outside wheel angle with inside wheel at 20°

Mechanical	Gear	Type		Recirculating Ball & Nut	
		Make		Ford	
		Ratios	Gear	22:1	
			Overall	30:1	
	No. wheel turns			5 (approx.) lock to lock	
Power	Type (coaxial, linkage, etc.)				
	Make				
	Trade name				
	Gear	Type			
		Ratios	Gear		
			Overall		
	Pump driven by				
	Number wheel turns				
Linkage	Type			Parallelogram	
	Location (front or rear of wheels, other)			Rear	
	Drag link (trans. or longit.)			Transverse	
	Tie rods (one or two)			Two	

* Linkage available to reduce overall ratio to 22:1

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STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		6° 45' with 1° camber (curb)
	Bearings (type)	Upper	Pre-lubrication - ball joint-spring load
		Lower	Pre-lubrication - ball joint
		Thrust	Teflon bearing in lower joint
Wheel alignment (range and preferred)	Caster (deg.)		Curb - $\frac{1}{2}^{\circ}$ to $\frac{1}{2}^{\circ}$
	Camber (deg.)		$\frac{1}{4}^{\circ}$ to 1°
	Toe-in (outside tread-inches)		$\frac{1}{8}^{\circ}$ to $\frac{1}{4}$
Steering spindle & joint type			Pre-lubrication - ball socket joint
Wheel spindle	Diameter	Inner bearing	1.12 I.D.
		Outer bearing	.75 I.D.
	Thread size		$\frac{3}{4}$ 16 NF 3
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description			Hotchkiss Drive		
Drive and torq. taken through (see page 15)			Rear Spring		
Spring	Type		Semi-Elliptic		
	Material		SAE-Spring steel 5160		
	Size (length x width, coil design height and I.D.; bar length & dia.)		60 x 2.50		
	Spring rate (lb. per in.)		140		
	Rate at wheel (lb. per in.)		135		
	Design load (lb. at design height)		1015		
	Mounting insulation type		Rubber Bushed Shackle		
	If leaf	No. of leaves		5	
		Inserts	Type and size	Flat	
Material			Fabric		
Shackle (comp. or tens.)			Tension		
Stabilizer	Type (link, linkless, frameless)		None		
	Material		None		
Track bar type			None		

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NHRA Technical Specifications

For 1961 Ford Motors

BORE	STROKE	DISPLACEMENT	CYLINDERS	ROD LENGTH
3.500	2.500	144	6	4.855
3.500	2.940	170	6	4.715
3.625	3.600	223	6	6.260
3.750	3.300	292	8	6.324
4.002	3.500	352	8	6.540
4.052	3.784	390	8	6.488

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Revised: 6-20-67, 8-1-99

HP	Disp	C.R.	Ind.	Make	Model/Transmission	Manifold	R.R.	Lifter	Head cc	Notes
85	144	8.7	1-1	Holl	CODE-C, C1DE-A/S1 C1DZ-A/ALL Carb sizes - 1437/1125		1.50	M	43.6	1
101	170	8.7	1-1	Holl	C1DE-C, E/SM D, F/AUTO Carb sizes - 1437/1250		1.50	M	49.4	
135	223	8.4	1-1	Holl	COAE-U/SM Z/AUTO Carb sizes - 1563/1250		1.43	M	72.0	
175	292	8.8	1-2	Ford	C1AE-Y, AA/SM A, AB/AUTO		1.43	M	68.5	
220	352	8.9	1-2	Ford	C1AE-AC, AE/SM AD, AF/AUTO		1.76	H	73.0	
300	390	9.6	1-4	Ford	C1AE-AG/SM AH/AUTO		1.76	H	73.8	
330	390	9.6	1-4	Ford	C1AE-AK/SM AL/AUTO		1.76	M	73.8	
375	390	11.1	1-4	Holl	C1AE-A/ALL (2143) Carb sizes - 1500x1500/1186x1250		1.76	M	56.2	
401	390	11.1	3-2	Holl	C1AE-AU (2437) Fr & Rr AV (2436) Center/ALL Carb sizes - (2437) 1500x1186 (2436) 1500x1125		1.76	M	56.2	

1-Alt carbs CODE-D, C1DE-B/AUTO Carb sizes - 1437/1125

HP	Disp	Deck Cl	Piston Type	Height	Vol	Valves	Cam Lift	Gasket	Springs
85	144	.012				1467/1266	344/344		Outer Only
101	170	.032				1527/1266	344/344		Outer Only
135	223	.023				1785/1520	369/369		Outer Only
175	292	.010				1652/1520	360/360		Outer Only
220	352	.051				2037/1566	408/408		Outer Only
300	390	.010				2037/1566	408/408		Outer Only
330	390	.010				2037/1566	440/440		Outer w Damper
375	390	Note 3				2037/1566	499/499		Outer w Damper
401	390	Note 3				2037/1566	499/499		Outer w Damper

3-Deck = .010 w/dished piston .020 w/flat piston