

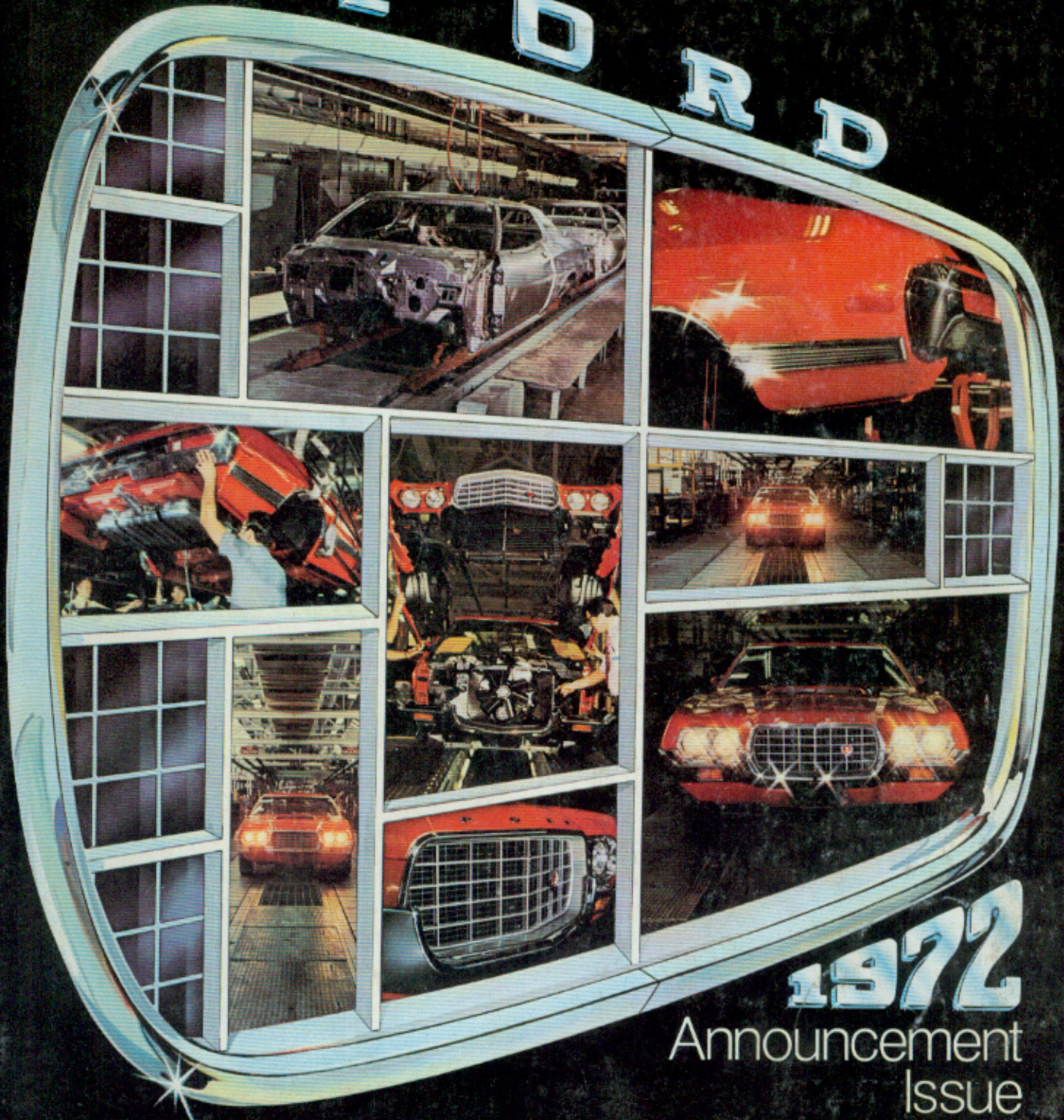
SHOP TIPS

Motorcraft 

VOL. 10, NO. 1

SEPTEMBER, 1971

F O R D



1972

Announcement
Issue

- NEW FEATURES ■ MAINTENANCE SCHEDULES
- SPECIFICATIONS ■ MODEL IDENTIFICATION
- SERVICE TIPS ■ MOTORCRAFT/AUTOLITE PART NUMBERS



MERCURY



MONTEGO



TORINO



FORD



THUNDERBIRD



COUGAR



PINTO



CONTINENTAL
MARK IV



LINCOLN-
CONTINENTAL



MUSTANG



CAPRI



MAVERICK

COMET



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Be sure to file this and future issues for ready reference. If you have any suggestions for articles that you would like to see included in this publication, please write to: Autolite-Ford Parts Division, Merchandising Services Dept., P.O. Box 3000, Livonia, Michigan 48151.

The information in this publication was gathered from materials released by the National Service Department of Autolite-Ford and the Customer Service Divisions of the Ford Marketing Corporation, as well as other vehicle and parts manufacturers. The descriptions and specifications contained in this issue were in effect at the time it was approved for printing. Our policy is one of continuous improvement and we reserve the right to change specifications or design without notice and without incurring obligation.

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Livonia, Michigan

INTRODUCTION TO THE 72'S

Here in one publication you'll find a host of basic technical information on the 1972 Ford and Lincoln-Mercury Division cars and trucks. This information and the service specifications listed for each model will be of great help to you during the coming months and of course an invaluable reference source for the future.

And, so that you can discuss the 1972's with your customers and others who may ask specific questions, we have devoted a number of pages to New Car Technical Features.

Also, in response to field requests for new car and truck information that can directly help service Ford products, the major portion of this issue covers such service oriented details as: Service Locations for the hood release, gasoline, oil and PCV valve; *Lights* and their candlepower and basic bulb trade number; *Circuit Protection* which includes fuse ratings and circuit breaker limits; *Refill Capacities* for all operating units in the drive train; *Service Tips* to help you in tune-up work; *Engine Specifications* for comparison with other powerplants; plus *Performance Specifications* that you'll find valuable during diagnosis, making adjustments, and in the control of exhaust emissions.

Keep this copy handy and refer to it often. It will make your job easier keeping Ford, Mercury and Lincoln passenger cars and Ford trucks at peak performance . . . all during their life.

Motorcraft

Of the newest and the most interesting information, tied in with the 1972 models, is the introduction of the name *Motorcraft* for original equipment parts on Ford-built cars and trucks.

All previously branded Autolite parts, (except spark plugs) will make their first appearance as production installed items under the new brand name, Motorcraft. We urge you to read pages 4 and 5 of this issue, so that you will have knowledge of the major change that has taken place at Autolite-Ford Parts Division.

FORD TRUCKS

100 THRU 350, M AND P SERIES

1972 Models &

GASOLINE ENGINES ENGINE SPECIFICATIONS



Ford F-100



Ford Parcel Delivery



Ford F-250

ENGINE DISPLACEMENT	240 C.I.D.	300 C.I.D.	302 C.I.D.	360 C.I.D.	390 C.I.D.
No. of Cylinders	6	6	8	8	8
Bore (Inches)	4.00	4.00	4.00	4.05	4.05
Stroke (Inches)	3.18	3.98	3.00	3.50	3.78
Distributor Point Gap (Inches)	0.027	0.027	0.017	0.017	0.017
Dwell Angle at Idle Speed	35°-39°	35°-39°	26°-30°	26°-30°	26°-30°
Ignition Timing (BTDC)	6°	6°	6°	6°	6°
Spark Plug (A)	BF-42	BF-42	BF-42	BF-42	BF-42
Spark Plug Gap (Inches)	0.032	0.032	0.032	0.032	0.032
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-4-2 6-3-7-8	1-5-4-2 6-3-7-8	1-5-4-2 6-3-7-8
Idle Speed (RPM) (B)					
Solenoid Connected	Man. 850 Auto. 600	—	Man. 800 Auto. 600	—	—
Solenoid Disconnected	500	—	500	—	—
No Solenoid	—	600	600	Man. 650 Auto. 550	Man. 650 Auto. 550
Anti-Stall Dashpot Clearance	7/64 + 1/64	7/64 + 1/64	1/16 + 1/64	1/8	1/8
Choke Housing Setting	1 Lean (Man. Trans.)	1 Lean (Light Truck)	See Note ①	See Note ②	1 Lean (Man. Trans.)
	Index (Auto. Trans.)	Index (Med. Truck)			Index (Auto. Trans.)
Choke Pulldown Setting					
Man. Trans.	0.230	0.260	0.140	0.160	0.140
Auto. Trans.	0.230	0.260	0.140	0.160	0.160
Accelerator Pump Setting	—	—	See Note ③	See Note ③	See Note ③
High Tension (Ignition) Wire Resistance	NOT TO EXCEED 1000 OHMS PER INCH				
Ignition Coil Voltage Output	MUST FIRE ACROSS 3/16 INCH GAP				
Distributor Vacuum Advance and Retard	CHECK FUNCTION AT 15 INCHES OF MERCURY				
Intake Manifold Bolt Torque—Ft.-Lbs.	—	—	23-25	32-36	32-36

(A) Installation torque 15-20 ft.-lbs.

(B) Adjust all idle speeds with headlights ON, automatic transmission in DRIVE or manual transmission in NEUTRAL and A/C OFF, if so equipped. Adjust higher idle speed with throttle solenoid connected, using the solenoid adjuster. Adjust the lower idle with the throttle solenoid wire disconnected, using the curb idle adjusting screw. For vehicles not equipped with a throttle solenoid, set the idle using the curb adjusting screw.

Note ① Econoline/Automatic: Index
Econoline/Manual: 1 Rich
F-Series: 2 Rich

Note ② Bronco: 3A; Econoline Bus Manual Trans. (Cal.): 3A;
Econoline Bus (Except Cal.) and Econoline Van (All States): 2A

Note ③ F-100 Auto. Trans.: Index
F-250, 350 Auto. Trans.: 2 Rich
F-100 Man. Trans.: 1 Lean
F-250, 350 Man. Trans.: 2 Rich

Note ④ F-100 Man. Trans.: 2A
F-250, 350 All: 4A

Specifications

FORD TRUCKS

100 THRU 350, M AND P SERIES

APPROXIMATE REFILL CAPACITIES

(U.S. Measure)

COOLING

Engine	Truck Model	Approx. Capacity* (Quarts) U. S. Measure
240	F100/250 4 x 2 Man T Std	14
	Man T EC Auto T Std	14½
	Man T or Auto T A/C, Auto T EC	17
240	F-100/250 4 x 4 F-350 SR Man T Std	14½
	Man T EC Auto T Std, Auto or Man T A/C	17
	Auto T EC	18½
240	F-350 DR Man or Auto T Std	16½
	EC	18½
240, 300	F-350 SR or DR Man or Auto T Std & EC	18
300	F-100/250 4 x 2 Man or Auto T Std	14½
	F-250 4 x 4 & F-350 SR Man T Std	
300	F-100/250 4 x 2 Man & Auto T with EC or A/C	17
	F-100/250 4 x 4 Man T EC or A/C	
	F-350 SR Man T EC Auto T Std	
	F-350 DR Man or Auto T Std	
300	F-350 SR Auto T EC	18½
	F-350 DR Man or Auto T EC	
302	F-100 4 x 2 Man or Auto T Std	17
	Man or Auto T EC or A/C	17½
360	F-100/250 4 x 2 Man or Auto T Std	22
360	F-100/250 4 x 2 Man or Auto T EC or A/C	22½
	F-250 4 x 4 All	
	F-350 SR & DR Man or Auto T Std	
360	F-350 SR & DR Man or Auto T EC or A/C	24
390	F-100/250 4 x 2 Man or Auto T Std	22
390	F-100/250 4 x 2 Man or Auto T EC or A/C	22½
	F-350 SR & DR Man or Auto T Std	
390	F-350 SR & DR Man or Auto T EC or A/C	24

*Includes 1 Quart for Heater
SR—Single Rear Wheels
DR—Dual Rear Wheels
A/C—Air Conditioning

EC—Extra Cooling Radiator
STD—Standard Cooling
MAN/AUTO T—Manual or Automatic
Transmission

ENGINE CRANKCASE REFILL CAPACITIES

Engine	Approx. Capacity (Quarts) U.S. Measure
240 Six	4*
240 Six, F-Series (4 x 4 F-350, M and P-Series)	5*
300, 302, 360 and 390 C.I.D.	5*

*Add 1 quart extra when changing oil filter.

REAR AXLE

Rear Axle Model	Truck Model	Pints
Ford 3300	F-100, P-100	6½
Dana 44F (front axle)	4-Wheel Drive (F-100, F-250)	3¼
Dana 44F HD (front axle)	4-Wheel Drive (F-250)	3¼*
Dana 44 GCF	F-250 LD & HD	4
Dana 60	F-250, P-350, P-3500	6
Dana 70	F-350, P-350, P-3500, P-400, P-4000	6
Rockwell C-100-N	P-500, P-5000	13
Rockwell D-100-N	P-500	13

*Add 1 pint for each steering knuckle.

FUEL TANK

Tank Type	Truck Model F-100-350 and P-Series	Approx. Cap. U.S. Gallons
Standard	F-100	18
	F-250 and F-350 Chassis—Cowl and P-Series Chassis	25
	F-250 and F-350 Chassis-cab	19½
Optional (Outside of Frame)	P-350, P-400 and P-500	30
Optional (Frame Mounted)	F-100	20¼
	F-250, F-350	25

TRANSMISSION

Transmission Type and Make	Pints
3-Speed (Ford)	3½
3-Speed Medium Duty (Warner T-89-F)	3¼
4-Speed (Warner T-18-B)	6½
4-Speed (New Process 435)	6¼
HD Cruise-O-Matic MX	22
C-4 Automatic	20½
C-6 Automatic	25½
4-Wheel Drive Transfer Case Single Speed F-100	1¼
4-Wheel Drive Transfer Case 2-Speed F-250	4½

CIRCUIT PROTECTION

Circuit	F-100-350	P-Series
Tail, Park, License, Marker and Stop Lights		12 amp. C.B. ①
Tail, Park, License and Marker Lights	15 amp. C.B. ②	15 amp. C.B. ③
Dome, Courtesy, Map, Cargo Lights and Cigar Lighter	Models 81, 85 AGW-15 Fuse ① Models 84	SFE or AGW 7.5 Fuse
Turn Signal, Backup Lights and W/S Washer (F Series Only)	SFE-14 Fuse ①	AGC-10 Fuse ①
W/S Washer Pump		AGC-10 Fuse ①
Instrument Panel Lights	2 amp. AGA-2 Fuse ①	AGA-1 ①
Hazard Warning and Stop Lamps	AGX-20 Fuse ①	15 amp. 7AG
Headlights	12 amp. C.B. ②	12 amp. C.B. ③
Heater and A/C	AGC or SFE-30 Fuse ①	SFE-14 Fuse ①
W/S Wiper	C.B. ③	C.B. ③
Roof Marker Lamps	25 amp. C.B. ③	
F-250-350 Camper Special	15 amp. C.B. ③	
All Others	15 amp. C.B. ③	
F-350 Stake Platform or Dual Wheels	15 amp. C.B. ③	
Charging and Gauge Circuit	Fuse Link	

① Fuse Panel
② Integral with Headlamp Switch
③ On right-hand cowl side panel

① Cartridge in Feed Wire
② Integral with Switch

NOTE: DO NOT exceed 8.5 amp. load across ignition switch for rear light circuit on trucks or buses with hydraulic stop light switch.

*C.B. Circuit Breaker

LIGHTS (12 VOLTS)

Description	Candle Power or Wattage	Trade No.
Cigar Lighter Socket	.7 c.p.	1895
Dome Light	2 c.p.	105
Front Turn Signal/Parking	3-32 c.p.	1157
Alternator Indicator	2 c.p.	1895(①)
Headlights—Single-High/Low Beam	50/40 W	6012
Heater Control	2 c.p.	1895
Instrument Cluster Illumination	2 c.p.	1895(①)
Instrument Panel Indicators—Hi-Beam	2 c.p.	1895(①)
Front	4 c.p.	1178
Rear	2 c.p.	194
Pool	4 c.p.	97
Oil Pressure	2 c.p.	1895(①)
Radio Dial	2 c.p.	1891
Rear License Light Only	4 c.p.	97
Rear Turn Signal & Stop /Tail	3-32 c.p.	1157
Spotlight Par 46	30 W	4435
Turn Signal Indicator	2 c.p.	1895
Brake Warning Light	2 c.p.	1895
Spotlight Par 35	30 W	4405
Fog Lights, Amber	35 W	4415A
Fog Light Switch	1 c.p.	53X
Automatic Trans. Control (PRND21)	1.5 c.p.	1445
Back-Up Lights	32 c.p.	1156
Engine Compartment (Optional)	6 c.p.	631
Cargo Lamp (Optional)	32 c.p.	1156
Cargo Lamp Indicator (Optional)	1 c.p.	53X

① F-100-350 Model 84 use No. 194 Bulb. A—Amber Color Bulb