

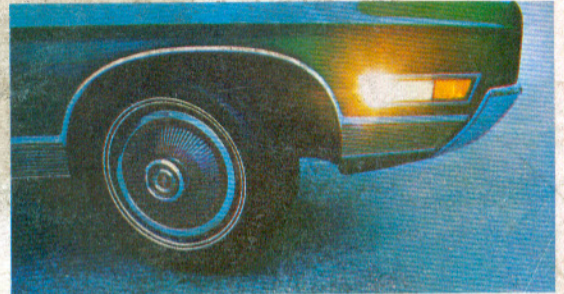
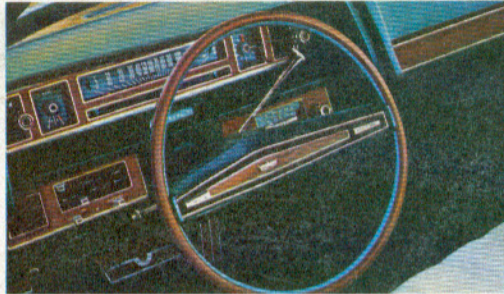
# SHOP TIPS

Autolite

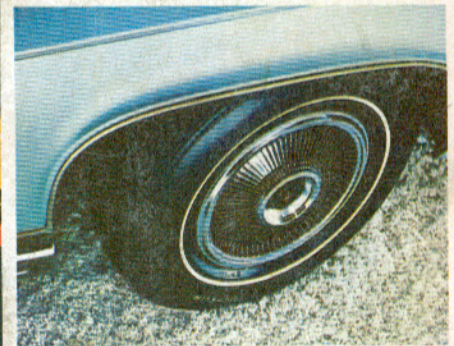


VOL. 9, NO. 1

SEPTEMBER, 1970



## 1971 Announcement Issue



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



# FORD TRUCKS

100 THRU 350, AND P SERIES

# 1971 Models &



Ford F-100



Ford Parcel Delivery



Ford F-250

## GASOLINE ENGINES

### ENGINE SPECIFICATIONS

Engine	240 CID	300 CID	302 CID	360 CID	390 CID
Bore (Inches)	4.00	4.00	4.00	4.05	4.05
Stroke (Inches)	3.18	3.98	3.00	3.50	3.786
Taxable (SAE) Horsepower	38.4	38.4	51.2	52.5	52.5
Compression Ratio	9.2:1	8.8:1	8.6:1	8.4:1	8.6:1
Engine Idle Speed (rpm) ①	500/850	775/500	800/500	650	650
Standard Transm. ②	④				
Over 6000 GVW (Calif.)	600	—	—	—	—
Automatic Transm. ② ③	500/600	500/550	600	550	550
Over 6000 GVW (Calif.)	550	550	—	—	—
Cylinder Firing Order	1-5-3-6-2-4		1-5-4-2-6-3-7-8		
Spark Plug Number (Autolite)	BF-42	BF-42	BTF-31	BF-32	BF-32
Spark Plug Gap	0.032-0.036		0.032-0.036		
Distributor Point Gap					
Exhaust Emission	0.027	0.027	0.017*	0.021	0.021
F-250-350, P-350-500	0.025	0.025	0.017	0.017	0.017
Ignition Timing—°BTC ①	6°	6°	6°	6°	6°

① If the individual requirements of the vehicle and/or use of sub-standard fuels dictate the initial timing may have to be retarded from the "Normal" setting to eliminate detonation. If retarding is necessary it should be done progressively and not to exceed 2° B.T.C.

② With headlights ON ③ Transmission in drive

④ Higher idle speed with throttle activator energized

\*0.021 inch with dual diaphragm distributor

## FORD DIESEL ENGINE

Engine	4-Cylinder 254
Bore (inches)	4.220
Stroke (inches)	4.52
Displacement (cubic inches)	254
Taxable (SAE) Horsepower	28.4
Horsepower @ rpm—Net	73 @ 2800
Gross	81 @ 2800
Maximum Torque (ft. lb. @ rpm)—Net	187 @ 1700
Gross	193 @ 1700
Compression Ratio	16.0 to 1
Compression Pressure	363 psi @ 215
Maximum Engine rpm (No Load)	3090
(Loaded)	2800
Idle Speed (rpm @ Neutral) Hot	500-550
Valve Lash Hot (inches)—Intake	.015
—Exhaust	.015
Oil Pressure Hot (psi)	35 @ 1500
Cylinder Firing Order	1-2-4-3
Air Cleaner—Type	Oil Bath
Injection System	
Injector Nozzle Opening Pressure psi	2600-2700
Injector Pump Timing	22° BTDC
Belt Tension (New)	140 lbs.
(Reset—After 10 min. operation)	110 lbs.



# Specifications

## FORD TRUCKS

100 THRU 350, AND P SERIES

### APPROXIMATE REFILL CAPACITIES (U.S. Measure)

#### COOLING

Engine	Truck Model	Approx. Capacity* (Quarts) U. S. Measure
240	F-100-250—4 x 2 (Manual Transmission) (Automatic Transmission) W/Air Conditioning	13 14½ 17
240	F-100-250—4 x 4, F-350 Single Rim Rear Wheels W/Air Conditioning	14½ 18¼
240	F-350 Single Rim Rear Wheels (Auto. Trans.)	14½
240	F-350 Dual Rear Wheels W/Air Conditioning	17 18¼
240	P-350-400-500	17
300	F-100-250—4 x 2, F-100-250—4 x 4, F-350 Single Rim Rear Wheels W/Air Conditioning	14½ 17
300	F-350 Single Rim Rear Wheels (Auto. Trans.) W/Air Conditioning	17 18¼
300	F-350 Dual Rear Wheels W/Air Conditioning	17 18¼
300	P-350-400-500	18
302	F-100-250—4 x 2 W/Air Conditioning	17 17½
360	F-100-250—4 x 2 W/Air Conditioning	22 22¼
360	F-100-250—4 x 4, F-350 Single Rim Rear Wheels, F-350 Dual Rear Wheels W/Air Conditioning	22¼ 24
390	F-100-250—4 x 2	22¼
390	F-350 Single and Dual Rim Rear Wheels W/Air Conditioning	22¼ 24

\*Includes 1 quart for trucks with heater

### ENGINE CRANKCASE REFILL CAPACITIES

Engine	Approx. Capacity (Quarts) U. S. Measure
240 Six	4*
240 Six (4 x 4, F-350 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 60-3	F-100	6
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 pt. for each steering knuckle.

### FUEL TANK

Tank Type	Truck Model F-100-350 and P-Series	Approx. Cap. U. S. Gallons
Standard	F-100 F-250 and F-350 Chassis—Cowl and P-Series Chassis F-250 and F-350 Chassis—cab	18½ 17 19½
Optional (Outside of Frame)	P-350, P-400 and P-500	30
Optional (Frame Mounted)	F-100, F-250, F-350	21½ 25

### TRANSMISSION

Transmission Type and Make	Pints
3-Speed (Ford)	3½
3-Speed w/Overdrive (Warner T-85-N)	4
3-Speed Medium Duty (Warner T-89-F)	3¼
3-Speed Heavy Duty (Warner T-87-G)	5½
4-Speed (Warner T-18-B)	6½
4-Speed (New Process 435)	6½
HD Cruise-O-Matic	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. ②
Tail, Park and License Marker Lights	15 amp. C.B. ③	
Dome, Courtesy, Map, Cargo Lights and Cigar Lighter	Models 81, 85 AGW-15 Fuse ①	SFE or AGW 7.5 Fuse
Turn Signal, Backup Lights and W/S Washer (F Series Only)	SFE-14 Fuse ①	AGC-10 Fuse ④
W/S Washer Pump	Integral C.B.	AGC-10 Fuse ④
Instrument Panel Lights	2 amp. AGA-2 Fuse ①	AGA-1 ④
Emergency Warning and Stop Lamps	AGX-20 Fuse ①	SFE-14 Fuse ④
Headlights	12 amp. C.B. ②	12 amp. C.B. ②
Heater	AGC or SFE-20 Fuse ①	SFE-14 Fuse ④
W/S Wiper	C.B. ⑤	C.B. ⑤
Roof Marker Lamps F-350 Stake Platform or Dual Wheels	Camper Special Option 15 amp. C.B. 25 amp. C.B.	
Charging and Gauge Circuit	Fuse Link	
Overdrive Transmission	AGC-15 Fuse ③	
Fuel System (Dorset Diesel)		6 amp. C.B.

① Fuse Panel

② Integral with Headlamp Switch

③ Clip on O.D. Relay

④ Cartridge in Feed Wire

⑤ 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.

### LIGHTS (12 VOLTS)

Description	Candela or Wattage	Trade No.
Cigarette Lighter Socket	1.5 C.	1445
Dome Light	2 C.	105
Front Parking Only	4 C.	97
Front Turn Signal/Parking	3-32 C.	1157
Alternator Indicator	2 C.	1895 ①
Headlights—Single-High/Low Beam	50/40 W	6012
Heater Control	2 C.	1895 ①
Instrument Cluster Illumination	2 C.	1895 ①
Instrument Panel Indicators—Hi-Beam	2 C.	1895 ①
Marker Lights	4 C.	97
Front	4 C.	97
Rear	1 C.	161
Roof	4 C.	97
Oil Pressure	2 C.	1895 ①
Radio Dial	2 C.	1891
Rear License Light Only	4 C.	97
Rear Turn Signal & Stop/Tail	3-32 C.	1157
Spotlight Par 46	30 W	4435
Turn Signal Indicator	2 C.	1895
Brake Warning Light	2 C.	1895
Spotlight Par 36	30 W	4405
Rear or Front Turn Signal only	32 C.	1156
Fog Lights, Amber	35 W	4415A
Fog Light Switch	1 C.	53X
Automatic Trans. Control (PRND21)	1.5 C.	1445
Back-Up Lights	32	1156
Engine Compartment (Optional)	6	631
Cargo Lamp (Optional)	32 C.	1076
Cargo Lamp Indicator (Optional)	1 C.	53X

① F-100-350 Model 84 use No. 194 Bulb.

A—Amber Color Bulb