

# SHOP TIPS FROM

# FORD



**1967 ANNOUNCEMENT ISSUE**

**INCLUDES:**

- Specifications
- Maintenance Schedules
- Safety Features
- Model Identification
- Service Procedures



*Valley Motors, Inc.*  
4th & Walnut Streets  
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# FORD TRUCKS



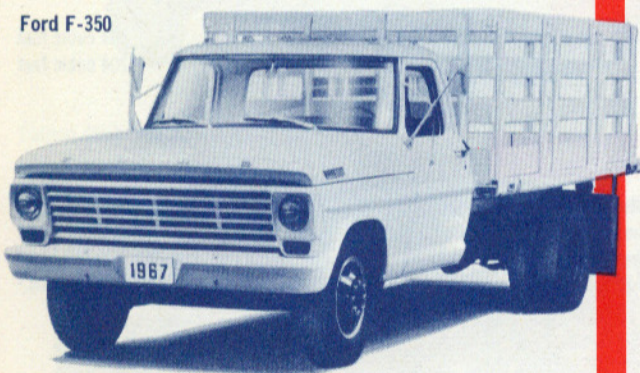
# 1967 TRUCK



Ford F-250

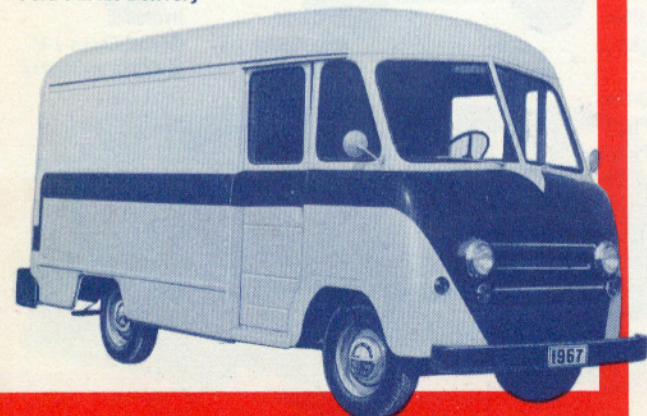


Ford F-100



Ford F-350

Ford Parcel Delivery



## ENGINES

	170 CID	240 CID	300 CID	352 CID
Bore (inches)	3.500	4.00	4.00	4.00
Stroke (inches)	2.94	3.18	3.98	3.50
Taxable (SAE) Horsepower	29.4	38.4	38.4	51.2
Max. Gross Horsepower (bhp @ rpm)	105 @ 4400	150 @ 4000	170 @ 14-3600	208 @ 4400
Max. Gross Torque (ft.-lbs. @ rpm)	158 @ 2400	234 @ 2200	283 @ 14-2400	315 @ 2400
Compression Ratio	9:1	9.2:1	8.4:1	8.9:1
Compression Pressure (1) (psi at Cranking Speed)	155-195	150-200	150-200	160-200
Idle Speed RPM (2)				
Manual Transmission	575	500	500	575
Non-Thermactor	700	600	625	625
Thermactor				
Automatic Transmission (In Drive)	500	500	500	475
Non-Thermactor	550	500	550	550
Thermactor				
Oil Pressure—Hot (psi at 2000 rpm)	35-55	35-55	35-60	35-55
Cylinder Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4	1-5-4-2-6-3-7-8
Spark Plugs	BF-82	BTF-42	BTF-42	BF-42
Spark Plug Gap	0.032"-0.036"	0.032"-0.036"	0.032"-0.036"	0.032"-0.036"
Distributor Point Gap	0.025"	0.025"	0.025"	0.025"
Ignition Timing				
Non-Thermactor				
Manual Transmission	4° (3) (4)	6° (3)	6° (3) (4)	6° (3) (4)
Automatic Trans.	8°	10° (3)	10° (3) (4)	6° (3) (4)
Thermactor				
Manual Transmission	TDC	TDC	TDC	TDC
Automatic Trans.	TDC	TDC	TDC	TDC

- (1) Allowable tolerance between cylinders 20 psi (2) With headlights on  
 (3) If the individual requirements of the vehicle and/or the use of sub-standard fuel dictate, the initial timing may be retarded from the "normal" setting to eliminate detonation (spark knock). If retarding is necessary, it should be done progressively and not exceed 2° B.T.D.C.  
 (4) For altitude operation and/or to obtain optimum engine performance and fuel economy it is permissible to further advance the initial timing to a maximum of 5° in excess of "normal" setting. No further improvement in engine performance or fuel economy will be achieved by advancing beyond this point. To perform this operation, the timing should be advanced progressively until engine detonation (spark knock) is evident under actual road test acceleration. The timing should then be retarded sufficiently to eliminate detonation.

## FORD DIESEL ENGINE

Engine	4-Cylinder 242
Bore (inches)	4.125
Stroke (inches)	4.516
Displacement (cubic inches)	242
Taxable (SAE) Horsepower	28.8
Horsepower @ rpm—Net	74 @ 2800
—Gross	82.5 @ 2800
Maximum Torque (ft.-lb. @ rpm)—Net	178 @ 1700
—Gross	186 @ 1700
Compression Ratio	16.5 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	.012
Oil Pressure Hot (psi)	45-55
Cylinder Firing Order	1-2-4-3
Air Cleaner—Type	Oil Bath
Injection system	
Injector Nozzle Opening Pressure psi	2600-2700 psi
Injector Pump Timing	22° BTDC

# SPECIFICATIONS

SERIES 100 THROUGH 350, AND P SERIES

FORD TRUCKS



## APPROXIMATE REFILL CAPACITIES

(U.S. Measure)

### COOLING (Add 1 quart for trucks equipped with heater)

Engine	Truck Model	Quarts
170 CID	P-100	9
240 CID	F-100 and F-250—4 x 2 (Standard)	13
240 CID	F-100 and F-250—4 x 2 RPO, F-100 and F-250—4 x 4, and F-350 with Single Rim Rear Wheels	14
240 CID	F-350 Double Rim Rear Wheels	18
240 CID	P-350, P-400, P-500	19
300 CID	F-100 and F-250—4 x 2 (Standard)	13
300 CID	F-100 and F-250—4 x 2 RPO, F-100 and F-250—4 x 4, and F-350 Single Rim Rear Wheels	14
300 CID	F-350 Double Rim Rear Wheels	18
300 CID	P-350, P-400, P-500	19
352 CID	F-100, F-250 and F-350 Single Rim Rear Wheels	21
352 CID	F-350 Double Rim Rear Wheels	24
242 CID DIESEL	P-3500, P-4000, P-5000	17

### CRANKCASE (Add 1 quart for filter)

Engine	Quarts
170 CID 6 Cyl.	3½
240 CID 6 Cyl.	4
240 CID 6 Cyl. (4 x 4, F-350 and P-Series)	5
300 CID 6 Cyl.	5
300 CID 6 Cyl. (4 x 4, and P-Series)	5
352 CID V-8	5
242 CID DIESEL (Add 1½ pints for full-flow filter)	8

## CIRCUIT PROTECTION

Circuit	Protective Device	Location
<b>F-100-F-250-F-350 Series</b>		
Dome Lamp	SFE-7.5 or SFE-9 Fuse	Fuse Panel
Emergency Warning System	SFE-20 Fuse	Cartridge in Feed Wire
Headlamps	Circuit Breaker	Integral with Headlamp Switch
Heater	SFE-20 Fuse	Fuse Panel
Instrument Panel Lights	1-AG Fuse	Fuse Panel
License Light	Circuit Breaker	Integral with Headlamp Switch
Lighter	SFE-14 Fuse	Fuse Panel
Marker Lights	SFE-14 Fuse	Cartridge in Feed Wire
Overdrive Circuit	3-AG Fuse	Clip on O/D Relay
Radio	SFE-14 Fuse	Fuse Panel
Spotlight	SFE-7.5 Fuse	Cartridge in Feed Wire
Stop Lamp	Circuit Breaker	Integral with Headlamp Switch
Turn Signal Lights	SFE-14 Fuse	Fuse Panel
Windshield Wiper	Circuit Breaker	Integral with Wiper Switch
<b>P-Series</b>		
Emergency Warning System	SFE-14 Fuse	Cartridge in Feed Wire
Headlamps	Circuit Breaker	Integral with Headlamp Switch
Heater	SFE-14 Fuse	Cartridge in Feed Wire
Instrument Panel Lights	1-AG Fuse	Cartridge in Feed Wire
License Lamp	Circuit Breaker	Integral with Headlamp Switch
Parking Lamps	Circuit Breaker	Integral with Headlamp Switch
Stop Lamp	Circuit Breaker	Integral with Headlamp Switch
Turn Signal Lights	SFE-7.5 Fuse	Cartridge in Feed Wire
Windshield Wiper	Circuit Breaker	Integral with Wiper Switch

### REAR AXLE

Rear Axle Model	Pints	
Ford 3300	F-100, P-100	4½
(t) Spicer 44	F-100 (Limited Slip)	4½
(t) Spicer 44F (Front Axle)	4-Wheel Drive (F-100, F-250)	3¼*
(t) Spicer 44F HD (Front Axle)	4-Wheel Drive (F-250)	3¼**
(t) Spicer 60-2	F-100	4½
(t) Spicer 60	F-250, P-350, P-3500	5½
(t) Spicer 70	F-350, P-350, P-3500, P-400, P-4000	6
Rockwell C-100-N	P-500, P-5000	15
Rockwell D-100-N	P-500	15

\*Add ½ pint for each steering knuckle. \*\*Add 1 pint for each steering knuckle. (t) Dana.

### FUEL TANK

Tank Type	Truck Model	Gallons
Standard	F-Series (Cab Models)	19.5
Standard	F-100, 250 Chassis Windshield, P-Series Chassis, F-350 Series Cowl or Chassis Windshield Models	17
Optional (Mounted Outside or Frame)	P-350/500	30
	F-100/F-350	25

### TRANSMISSION

Transmission Type and Make	Pints
3-Speed (Ford)	3½
3-Speed Medium Duty (Warner T-89-F)	3½
3-Speed Heavy Duty (Warner T-87-G)	5½
4-Speed (Warner T-18)	6½
4-Speed (New Process 435)	6¼
HD Cruise-O-Matic	22
C-4 Automatic	20½
4-Wheel Drive Transfer Case Single Speed F-100	1¾
2-Speed F-250	4½

## LIGHTS (12 VOLTS)

Description	Candle Power or Wattage	Lamp Number
Cigarette Lighter Socket	1.5 c.p.	1445
Dome Light	15 c.p.	1003
Front Parking Only	4 c.p.	1155
Front Turn Signal/Parking	32/4 c.p.	1157
Alternator	2 c.p.	1895
Headlights Single—High/Low Beam	50/40 Watts	6012
Heater Control	2 c.p.	1895
Instrument Cluster Illumination	2 c.p.	1895
Instrument Panel Indicators Hi-Beam	2 c.p.	1895
Marker	4 c.p.	1155
Oil Pressure	2 c.p.	1895
Radio Dial	2 c.p.	1895
Rear License Light Only	4 c.p.	1155
Rear Turn Signal & Stop/Tail	32/4 c.p.	1157
Spotlight	30 Watts	4435
Turn-Signal	2 c.p.	1895
Brake Warning Light	2 c.p.	1895