SERIES FORD TRACTORS

MODEL 820: 172 cu. in. engine. 5-Speed transmission, single 10" clutch. Equipped with safety starter switch, key ignition, battery, generator, voltage and current regulator, ammeter, thermostat, oil pressure gauge, oil bath air cleaner, full flow oil filter, fixed drawbar, fenders and muffler. 10 x 28 4-ply rear tires. 600 x 16 4-ply front tires (ANS rear tread and 5.50 x 16 multi-rib front tractor tires available). Rear tread adjustable 46" to 76" in 4" steps. Front tread adjustable 52" to 80".

MODEL 850: Same as Model 820 except: Equipped with 12 x 28 4-ply rear tires, 2 sealed beam headlights, red tail light, trailer light connection, Proof-Meter, temperature gauge, enclosed hydraulic mechanism with constant draft and implement position control, constant running hydraulic pump, 3-point linkage, adjustable top link, transmission driven PTO, deluxe seat, drawbar, drawbar stays, tools and tool box. Rear tread adjustable 52" to 76" in 4" steps.

MODEL 860: Same as Model 850 except: Equipped with double 9" clutch and Live PTO.

Wheelbase at 52" front tread.......................... 74.50"
Over-all height, with 11" rear tires.................. 57.29"
Over-all length at 52" front tread.................... 120.83"
Over-all width at 52" tread............................ 63.88"
Over-all width at 76" tread............................ 87.50"

Ground clearance, front axle......................... 21.36"
Clearance under rear axle, with 11" tires........... 21.95"
Approx. shipping weight (Model 860).................. 2991 lbs.
Typical working weight with front and rear tire fill, front and rear wheel weights. 3487 lbs.

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**SPECIFICATIONS – 800 Series Ford Tractors**

**HORSEPOWER (Model 860)**
- Belt (*Maximum*): 46.89
- Drawbar (*Maximum*): 40.18
- Pounds of Drawbar Pull (Maximum Observed):
  - 1st: 4514
  - 2nd: 4139
  - 3rd: 3960
  - 4th: 3057
  - 5th: 2128
- Pull as Percentage of Tractor Weight (1st gear at test weight of 6315 lbs.): 71.43%
  *Corrected to sea level barometer and 60° F temperature.

**GROUND SPEEDS**

<table>
<thead>
<tr>
<th>Gears</th>
<th>Engine RPM</th>
<th>Model 820 (10 x 28 Tires)</th>
<th></th>
<th>Model 850, 860 (12 x 28 Tires)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1500</td>
<td>1750</td>
<td>2000</td>
<td>1500</td>
</tr>
<tr>
<td>1st</td>
<td>1.62 mph</td>
<td>1.89 mph</td>
<td>2.16 mph</td>
<td>1st</td>
</tr>
<tr>
<td>2nd</td>
<td>2.56 mph</td>
<td>3.00 mph</td>
<td>3.43 mph</td>
<td>2nd</td>
</tr>
<tr>
<td>3rd</td>
<td>3.42 mph</td>
<td>3.65 mph</td>
<td>4.66 mph</td>
<td>3rd</td>
</tr>
<tr>
<td>4th</td>
<td>4.73 mph</td>
<td>5.51 mph</td>
<td>6.30 mph</td>
<td>4th</td>
</tr>
<tr>
<td>5th</td>
<td>8.41 mph</td>
<td>9.81 mph</td>
<td>11.21 mph</td>
<td>5th</td>
</tr>
<tr>
<td>Rev.</td>
<td>2.76 mph</td>
<td>3.22 mph</td>
<td>3.88 mph</td>
<td>Rev.</td>
</tr>
</tbody>
</table>

**“RED TIGER” 800 ENGINE**

- **ENGINE**: Type, overhead valve; cylinders, 4; compression ratio, 6.75:1; displacement, 172 cu. in.; bore, 3.90”; stroke, 3.60”; fuel, gasoline.
- **POWER**: 54.8 h.p. at 2200 r.p.m. at flywheel. 149 ft.-lbs. torque at 1300 r.p.m.
- **CRANKSHAFT**: Precision cast alloy iron statically and dynamically balanced.
  - Main Bearing Journal Size:
    - Dia. Length: 2.49” x 1.49”
    - Front: 2.49” x 1.49”
    - Middle: 2.49” x 1.75”
    - Rear: 2.49” x 1.64”
  - Connecting Rod Journal Size: 2.30” x 1.25”
- **CONNECTING RODS**: Forged alloy steel—crank pin pressure lubricated.
- **PISTONS**: Autothermal—aluminum alloy tin plated—cam-ground.
- **PISTON RINGS**: Width ¾” top compression, chrome plated. ¾” second compression, phosphate plated. Oil ring width—0.1860”—0.1865”.
- **PISTON PIN**: Full floating, lubricated by continuous splash—size 0.91” dia. x 3.162”—3.176” length.
- **PISTON TRAVEL**: Average—1320 f.p.m. @ 2200 engine r.p.m.

**COOLING SYSTEM**: Tube and fin type radiator with pressure type cap. Water pump is centrifugal type with pre-lubricated bearing. Water seal in pump is graphite against sintered aluminum oxide. 3-blade curved tip fan—15.7” diameter. Pump cap.—16 g.p.m. at 1400 engine r.p.m.

**ENGINE LUBRICATION**: Pressure type with 1 qt. capacity Full Flow Oil Filter.

**CARBURATOR**: Single up draft plain tube type of sturdy dustproof construction equipped with accelerating well and economizer. Marvel Schebler 1” SAE flange size Adjustable Main Jet.

**AIR CLEANER**: Oil bath type with easily removable lower element for cleaning. 1.3 pints capacity.

**GOVERNOR**: Centrifugal flyball, variable speed type. Enclosed, mounted on crankshaft spline for instant response to varying load requirements.

**ELECTRICAL SYSTEM**: Generator—two-brush type, rated at 1650 r.p.m.—20 amps, capacity 160W at 7½ volts. Regulator—voltage and current control. Key and lock ignition—automatic spark advance, side mounted distributor. Safety Starter—regular equipment. Tractor cannot be started except with transmission in neutral. Battery—80 ampere hour, 13 plates, 6 volt.

**CLUTCH**: (Models 820, 850)—Single plate, 10” dia., foot operated. (Model 860)—Double plate, 9½” dia., foot operated for transmission and PTO control.

**STEERING**: Recirculating ball type gear.

**HYDRAULIC SYSTEM**: Pump make—Ford. Type—6 piston, wobble plate actuated. Drive—helical gear off camshaft. Flow—4 g.p.m. at 2000 engine r.p.m. Operating Pressure—2000 p.s.i. (Maximum). Relief Valve Pressure—2000 p.s.i.

**BRAKES**: Internal expanding, self energized, 14” diam. double anchored, individually or jointly operated with right foot. Bonded lining. Equipped with locks.


Design, materials and/or specifications are subject to change without notice and without liability.