

Overview Specifications Sheet

ENGINE

Make Ford Motor Co.
Model CSG 649
Type 6 Cylinder
No. of Cylinders 6 in Line
Displacement 4.9 liters (300 cu. in.)
Bore 4.00 in.
Stroke 3.98 in.
Compression 8.0:1
Brake Horsepower... 101 H.P. @ 2800 RPM
Torque 205 ft.-lb.s @ 2800 RPM
Firing Order 1-5-3-6-2-4
Engine idle (automatic transmission —
drive range) 500 - 600 RPM
Oil Capacity (including required oil
for filter replacement) 7 qts.
Oil Pressure, Hot..... 40-60 psi @ 2000 RPM

CARBURETOR

Make Holley
Type Downdraft

ALTERNATOR

Make Ford
Voltage 12
Amp 65
Amperage draw @ normal load 150 amps

STARTER

Make Ford
Voltage 12
Type Permanent Magnet, Solenoid
Amperage draw 70 ±10 amps

TRANSMISSION

Model Ford C6
Type Automatic
Speeds 3 Forward, 1 Reverse
Parking Brake Drum type
Oil Capacity 12 Qts.
Gear Ratios (Forward & Reverse)
Low 2.46:1
2nd 1.46:1
3rd 1:1
Reverse 2.18:1

FRONT AXLE

Make Dana
Model PS1300-R30-BP
Differential Reduction Ratio 6.17:1
Wheel End
Planetary Reduction Ratio 3.650:1
Brakes (wet disc) 66120
Tires 7.50 × 15 × 12 ply
Inflation Pressure 125 psi

REAR AXLE

Make Dexter
Part Number 91634
Brakes 12.25 in Dia. × 3.375 in
Tires 7.50 × 15 × 12 ply
Inflation Pressure 80 psi

HYDRAULIC BRAKE VALVE

Make Mico
Type Hydraulic Power Brake Valve
Part Number 90731

BRAKES (FRONT)

Make Dana
Type Hydraulic (wet disc)
Part Number 66120

BRAKE WHEEL CYLINDER (REAR)

Make Dexter
Type Hydraulic
Part Number 76639 L.H. 76640 R.H.

POWER STEERING PUMP

Make Hydreco
Type Belt Driven
Part Number 90416

STEERING VALVE

Make Char-Lynn
Part Number 47223

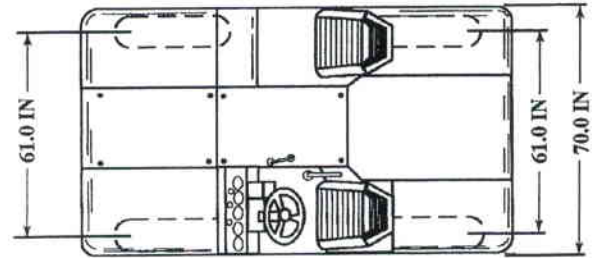
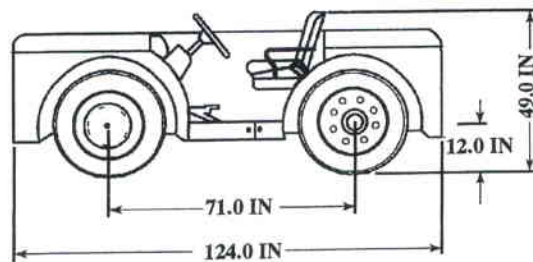
COLUMN ASSEMBLY

Make Char-Lynn
Part Number 45930

BATTERY

Type Lead-Acid
Voltage 12
System Type Negative Ground

General Specifications



	U.S.	Metric
Length	124 in	3149 mm
Width	70 in	1778 mm
Height (over top of seat)	49 in	1245 mm
Steer axle tread	61 in	1549 mm
Forward speed (no load maximum)	10 mph	16 kph
Turning radius (outside)	220 in	5588 mm

General Capacities

	U.S.	Metric
Cooling system	22 qt	20.8 L
Engine crankcase	7.0 qt	6.6 L
Transmission (with filter change)	12.0 qt	11.4 L
Fuel tank	19 gal	72 L

Model Description

This manual is for SMLP-80, SMLP-100 and SMLP-120 models, internal combustion engine-powered, wheeled, aircraft tow tractors manufactured by **United Tractor Company**, Chesterton, Indiana.

The **SMLP-80** model tow tractor weighs 17,600 pounds (7,983.3 kg). With a 12-inch (304.8 mm) coupler height on dry concrete, the SMLP-80 tow tractor has a rated drawbar pull of 8,000 pounds (3,628.8 kg).

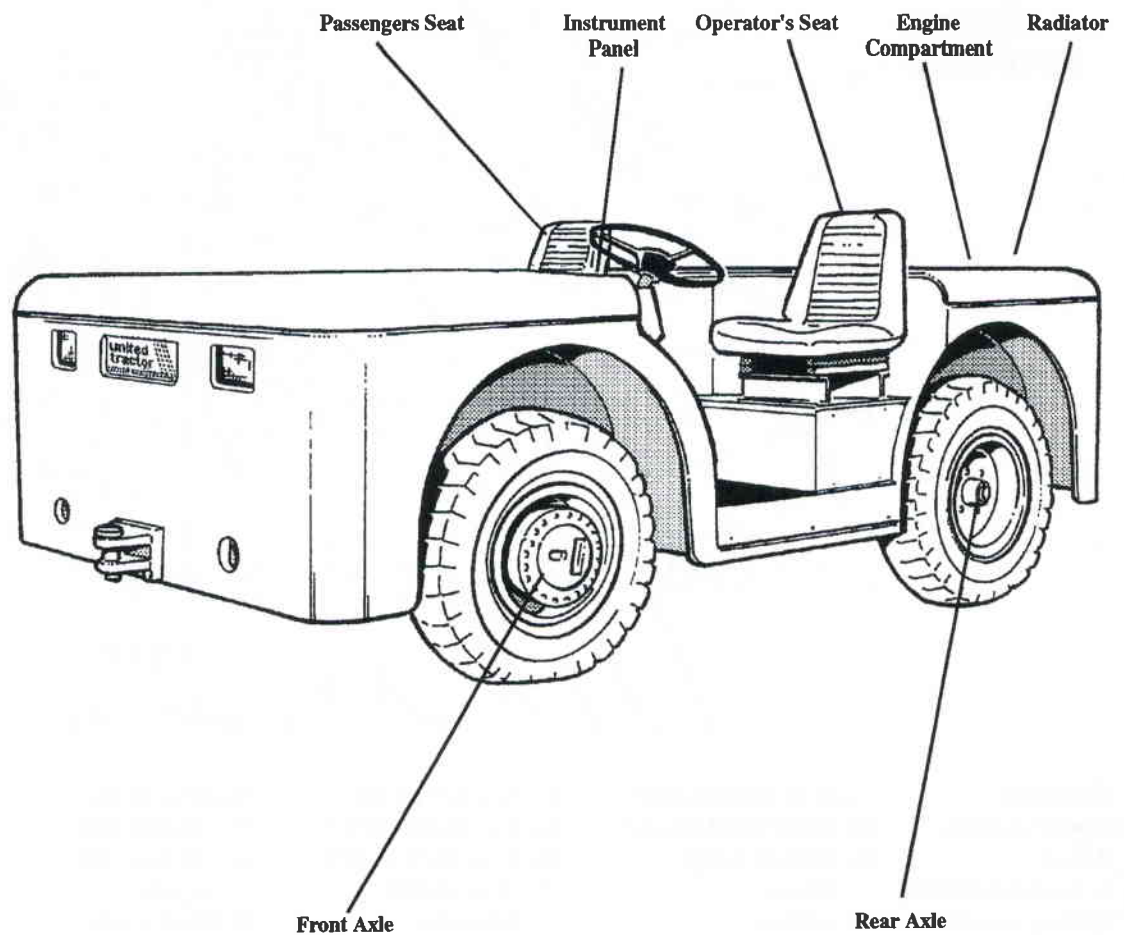
The **SMLP-100** model tow tractor weighs 18,100 pounds (8,210.2 kg). With a 12-inch (304.8 mm) coupler height on dry concrete, the SMLP-100 tow tractor has a rated drawbar pull of 10,000 pounds (4,536.0 kg).

✱ The **SMLP-120** model tow tractor weighs 19,200 pounds (8,709.1 kg). With a 12-inch (304.8 mm) coupler height on dry concrete, the SMLP-120 tow tractor has a rated drawbar pull of 12,000 pounds (5,443.2 kg).

Each vehicle meets all applicable requirements mandated in ANSI B56.9, Safety Standard for operator-controlled industrial tow tractors.

In addition, your vehicle may conform to Underwriter Laboratory requirements. (See the vehicle's capacity plate for Type Designation.)

Major Systems



Frame

The vehicle frame is of welded construction and provides mounting facilities for the engine, transmission, front axle, rear axle, and bolt-on components. The frame is constructed of heavy steel of sufficient weight and strength to support all anticipated stresses of the power train and towed loads.

Operator's Compartment

The operator's compartment contains a cushioned, adjustable seat. All controls and instruments are arranged directly in front of the operator. The vehicle also provides seating for a passenger. This seat is also cushioned and adjustable with a handhold to the passenger's left, mounted on the center console.