



Electronic Service Manuals

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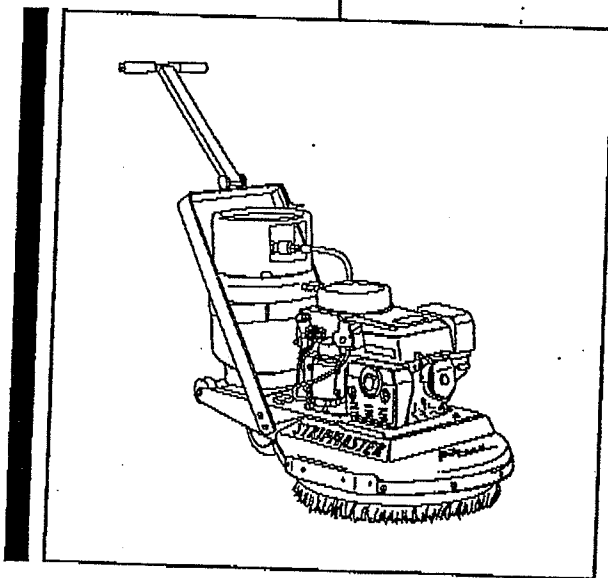
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Toughman™ 21" Propane Strip Machine

OPERATOR'S MANUAL

Item #87044-00



Chemicals
Equipment
Programs
Process

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I. POWERED EQUIPMENT PREPARATION

- A. Familiarize yourself with equipment by reading manuals and identifying components and controls.
- B. Check that suggested maintenance schedule has been observed.
- C. All machines are equipped with a multi-function maintenance meter. The four functions include the following: hours, job timer, service alarm and tachometer. (See *Engine Maintenance Meter Instructions*)
- D. Never let an untrained person operate or perform repairs on the machine. They may hurt themselves, damage the floor or the equipment.
- E. Never change or alter the propane control equipment!
- F. Always check oil before attempting to start engine!
- G. Install approved and properly filled propane tank.
 - Never complete the connection of the tank to the machine by using a wrench. Always do it by hand. Listen for the rush of fuel to the lock-out device when you open the tank valve. If you hear this, it will indicate that a good connection has been made at the tank.
 - European tank connections may require use of a wrench. However, care should be taken not to overtighten the gas fittings.
 - Provide and use ear protection during operation.

II. STARTING THE ENGINE

- A. Open propane (LPG) tank valve (counter clockwise).
- B. Set throttle control at idle for 12 V & choke for electric start system.
- C. Electric start - push "Start" button until engine starts. Starter should not be engaged for more than 10 seconds at a time.
 - When a propane tank is overfilled it may temporarily cause the fuel regulator to malfunction. Remove the tank to a well ventilated location. Release some gas until the cloud disappears and escaping gas is "clear." Reinstall tank.
 - All machines are equipped with tamper proof fuel systems. If a fuel problem exists, contact an authorized service center.
 - Propane tanks should be removed & stored in a protected off site area.

III. TOUGHMAN OPERATION

- A. After starting engine, put throttle lever in idle position until ready to strip. Unit has centrifugal clutch. Pad Driver or Brush will not turn while engine is in idle position.
- B. Increase engine speed to desired RPM (2500-3000). Pad Driver or Brush will begin to function as you reach 1800 RPM. Engine speed not to exceed 3400 RPM.
- C. Push machine straight ahead at normal walking speed.
 - When operation is completed remove tank and store in a secure, protected off site (preferably outdoor) location.
 - Do not use on surfaces with a gradient exceeding 2%.
 - Never tilt back machine to maintenance position while engine is running.
 - Never reach under machine deck when engine is running.

IV. CAUTION IN STORAGE AND HANDLING: PROPANE TANKS

- A. Always store equipment away from heater rooms, boilers, gas-fired water heaters or any other source of open flame and away from possible falling objects.
- B. Always vent an over-full bottle out of doors away from all closed places and away from any fire or flame producing device. Use a screwdriver to vent excess propane which escapes as a white mist until at proper level in tank.
- C. Always store LPG tanks outside. Remove all tanks from inside building except during equipment use. Store them in a secure, well ventilated area.

V. PAD AND BRUSH ADJUSTMENTS

- A. To adjust or change a pad or brush, lean machine back towards propane tank.
Never turn machine on its side.
- B. A Pad Driver assembly with 1" clear nylon bristles is supplied as standard equipment on the TOUGHMAN. Also available is a Strata Grit Brush with 1 1/2" red Strata Grit Bristles. Depending on the application, either can be used.
 - The pad driver has 1" clear nylon bristles. These bristles are not intended to be used for any type of scrubbing or stripping. Their only purpose is to hold the pad.
- C. Depending on what kind of surfaces the machine is used on: concrete, ceramic tile, vinyl tile, brush life

