



MODEL E13SGH-E16SGB CENTER PIVOT MANUAL PIVOT STUMP GRINDER OWNER'S MANUAL – ORIGINAL INSTRUCTIONS

CONGRATULATIONS!

You are now the proud owner of the BARRETO stump grinder. The OPERATOR'S MANUAL is attached to the machine. Please study it and this manual to become familiar with the stump grinder, its characteristics, and method of operation. Pay particular attention to the safety and operating instructions to prevent personal injury or equipment damage.

If you have any questions or need any replacement parts in the future, please contact us at your convenience. Our toll-free phone number, fax and email are listed below.

THANK YOU for your patronage and confidence in BARRETO equipment.

Barreto Manufacturing, Inc.
Innovative Equipment Engineered to Last
66498 Hwy 203, La Grande, OR 97850
(800) 525-7348 (541) 963-7348
FAX (541) 963-6755
E-Mail: info@barretomfg.com
Web Site: <http://www.barretomfg.com>

Machine Identification Record

Machine model number _____

Machine serial number _____

Engine manufacturer _____

Engine model number _____

Engine serial number _____

TABLE OF CONTENTS

STUMP GRINDER INSTRUCTIONS UPON DELIVERY	3
SERVICE INFORMATION	3
HOURLY METER	4
STUMP GRINDER INTENDED USE	5
LUBRICATION REQUIREMENTS	5
OPERATOR TRAINING	6
WARRANTY OF BARRETO MANUFACTURING EQUIPMENT	6
MAINTENANCE PREPARATION	6
ROUTINE MAINTENANCE	7
BRIGGS/VANGUARD MAINTENANCE SCHEDULE	8
CUTTER WHEEL TORQUE SPECS	9
ELECTRICAL SCHEMATIC – BRIGGS/VANGUARD	9
ELECTRICAL SCHEMATIC WITH HONDA	10
STUMP GRINDER TROUBLESHOOTING GUIDE	10
SPECIFICATIONS	11

STUMP GRINDER INSTRUCTIONS UPON DELIVERY

Upon delivery, check for freight damage and any missing items. If there is damage, notify the carrier and Barreto Manufacturing immediately **and make sure to document there was damage on the delivery receipt**. Please take pictures of any damage immediately if possible before unpacking crate. Remove machine from shipping crate.

When documentation refers to “right side” or “left side”, it is relative to the operator’s position with both hands on the controls.

SERVICE INFORMATION

BELT SYSTEM:

Your stump grinder arrives with a heavy duty belt drive system. This system will need periodical inspection and service.

BRAKE SYSTEM:

Your stump grinder has a cable-operated parking brake system which may need to be adjusted as the cables stretch with use.

NOTE: It is very important to move the fuel shutoff lever to the closed position after stopping the engine. Failure to do so could cause fuel to leak down into the cylinder and crankcase. Damage resulting from this will void your engine warranty and not be covered.

IMPORTANT - The engine on the Barreto stump grinder may or may not have been serviced prior to shipping. Shipping regulations may prohibit shipping with fuel or oil in the engine. Check levels and add oil and fuel as required before starting engine. Service the engine according to the engine owner’s manual before starting.

NOTE: We recommend that the cutter teeth be tightened to 25 ft. lbs. after every use.

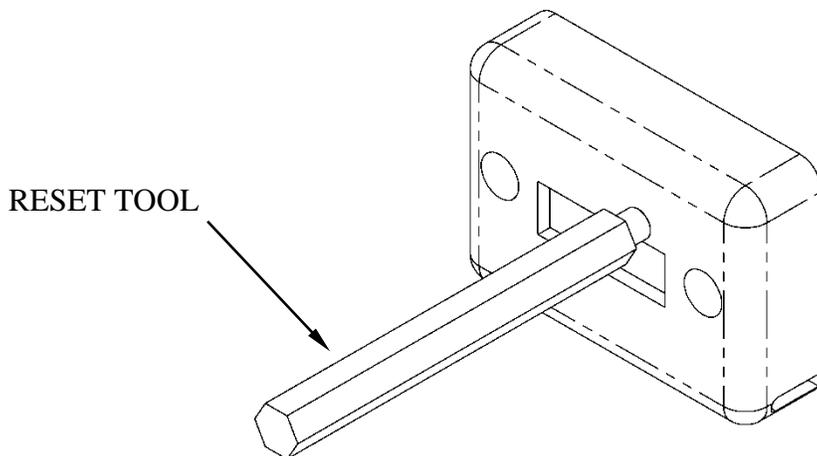
HOUR METER

The **DGI® TACH/HOUR** hour meter tracks the hours of machine operation in order for routine maintenance to be performed on a timely basis.

Your **DGI®** hour meter is pre-set at the **DGI®** factory to go into **Flash Alert** mode at 25-hour intervals. Although the engine manufacturer does not require changing engine oil this often, **due to heavy-duty use and extreme conditions inherent to tiller use, Barreto Manufacturing strongly recommends frequent oil changes.**

Refer to this manual for equipment service requirements and to the **Engine Manual** for other engine service requirements.

While **Flash Alert** is active, hold the tip of the RESET TOOL (Key Kancel Wand) against the meter as shown. Within several seconds, the display will stop flashing indicating the Service Interval has been reset. If the wand gets lost, a small mechanic's pick-up magnet will work.

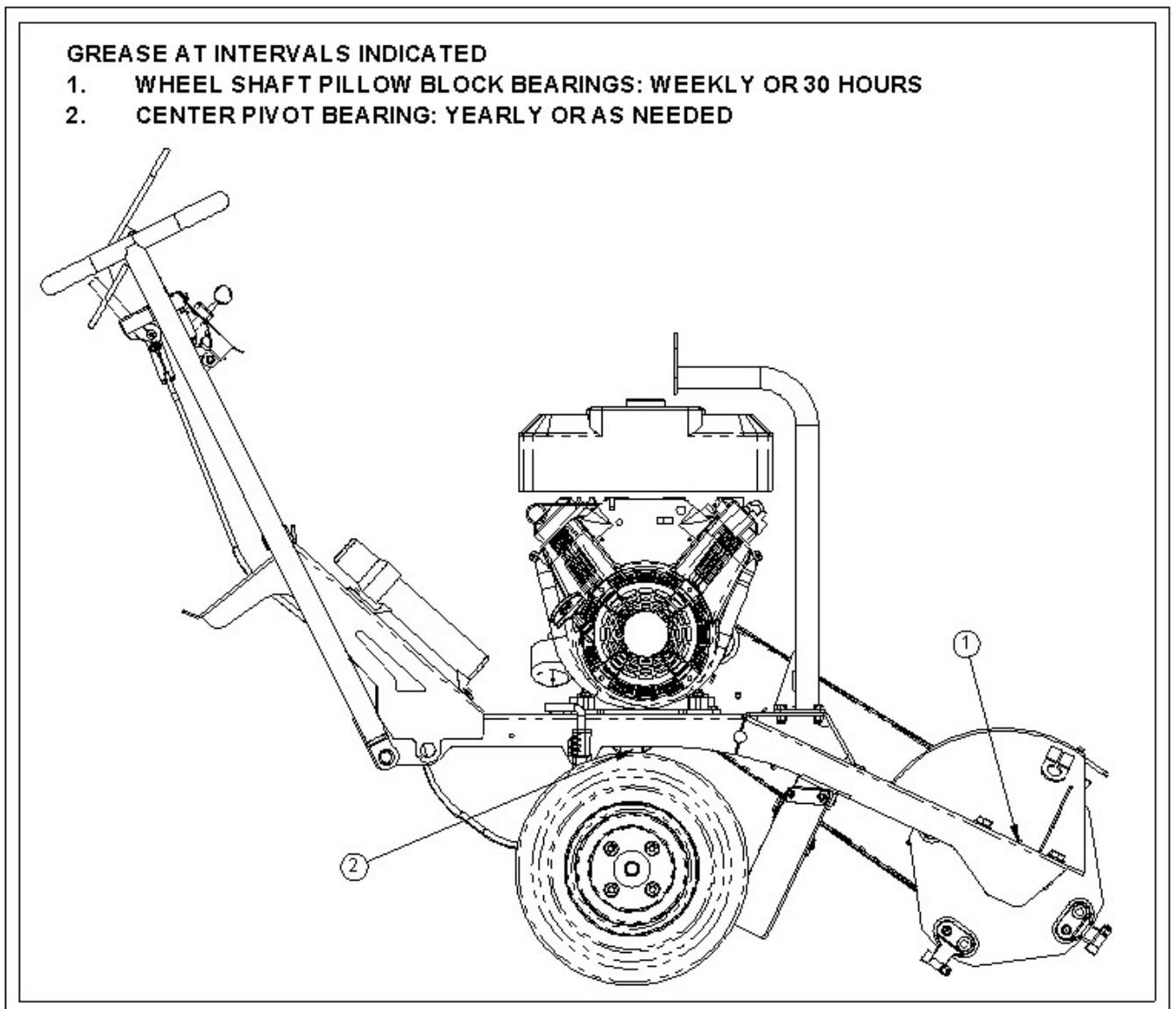


STUMP GRINDER INTENDED USE

The Barreto Stump Grinder is designed to remove in-ground tree stumps and exposed roots. It should not be used to cut any material other than wood stumps and the surface soil around the stumps or exposed roots.

LUBRICATION REQUIREMENTS

Grease at the intervals indicated per the illustration of grease lubrication points. There is also a grease diagram decal on the machine.



OPERATOR TRAINING

Rental companies should demonstrate all of the machine operations to each rental customer including:

- Starting up the engine.
- Loading the stump grinder onto the trailer and securing it for road transport.
- Unloading the stump grinder from the trailer.
- Grinding procedure - Operation of the stump grinder.

WARRANTY OF BARRETO MANUFACTURING EQUIPMENT

Barreto Manufacturing, Inc. warrants all **BARRETO** equipment to be free of defects in material and workmanship for a period of one (1) year. All **BARRETO** fuel components, fuel tank, cap, lines & fittings are warranted for two (2) years. Warranty period begins on date of delivery to the original user.

This warranty is in lieu of all other warranties, whether written or implied, and is limited to:

1. Replacement of parts returned to the dealer and/or factory and determined defective upon inspection. (Replacement for parts to dealers shall be at dealer cost plus shipping charges.)
2. Time for pick-up and/or delivery, transportation of service calls by dealers is excluded. Manufacturer reserves the right to determine reasonable time required for repair.

Warranty does not apply to damage caused by abuse or neglect. Time and materials required for normal maintenance and service are also excluded from warranty coverage.

Engines, engine attached fuel tanks, engine accessories, batteries and tires are warranted by the original manufacturer and are not covered by the Barreto Equipment Warranty.

Wear parts such as cutter wheels and teeth, holders and bolts, dig chains, dig teeth, sprockets, chain rollers, bearings, bushings etc. are excluded unless it can be determined that a defect has contributed to premature wear.

MAINTENANCE PREPARATION

Only trained & qualified personnel should perform maintenance or repairs of the stump grinder. Before performing any service, maintenance, adjustments, repairs, or off-season long-term storage, follow the SHUT DOWN PROCEDURE in the OPERATOR'S MANUAL.

Do not touch the engine, muffler, or any of the belt components until cool.



WARNING: Muffler and engine get hot enough to cause serious burns. For the safety of yourself and others, allow enough time for the engine, muffler, and the hydraulic fluid to cool completely before performing any cleaning or maintenance.



ROUTINE MAINTENANCE

Routinely check the condition, clean, tighten, repair, or replace as necessary the following:

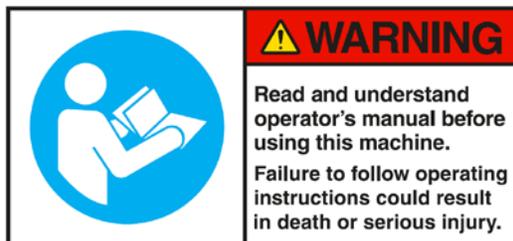
- Muffler Guard
- Fuel Lines
- Fasteners
- Safety Decals

Barreto recommends using genuine Barreto spare parts to ensure not only quality but also the health and safety of the operator.

Clean safety decals often using soap and water. **Do not use** abrasive cleaners or solvents such as mineral spirits that may damage the decals. Replace any damaged (unreadable) or missing decals. If you replace a machine part that has one or more decals affixed to it, replace the decals also. Replacement parts and decals can be purchased from Barreto Manufacturing, Inc. When attaching decals, the temperature of the mounting surface must be at least 40°F (5°C) and must be clean and dry.

Service the engine according to the engine owner's manual. Follow the directions for all aspects of service including air filter change, oil level checking, filling, draining, disposal of engine oil, disposal of petrol/gasoline, and off-season long-term storage.

Off-season long-term storage of the stump grinder can be at any ambient temperature.



BRIGGS/VANGUARD MAINTENANCE SCHEDULE

Maintenance Chart

First 5 Hours
<ul style="list-style-type: none">• Change oil
Every 8 Hours or Daily
<ul style="list-style-type: none">• Check engine oil level• Clean area around muffler and controls
Every 100 Hours or Annually
<ul style="list-style-type: none">• Clean or change air filter * ▲• Change engine oil and filter• Clean pre-cleaner (if equipped) *• Replace spark plug• Check muffler and spark arrester
Every 250 Hours or Annually
<ul style="list-style-type: none">• Check valve clearance. Adjust if necessary.
Every 400 Hours or Annually
<ul style="list-style-type: none">• Change air filter ▲• Replace fuel filter• Clean air cooling system *• Clean oil cooler fins *
Every 600 Hours or Annually
<ul style="list-style-type: none">• Change safety filter (if equipped)

* In dusty conditions or when airborne debris is present, clean more often.

▲ Every third air filter change, replace the inner safety filter (if equipped).

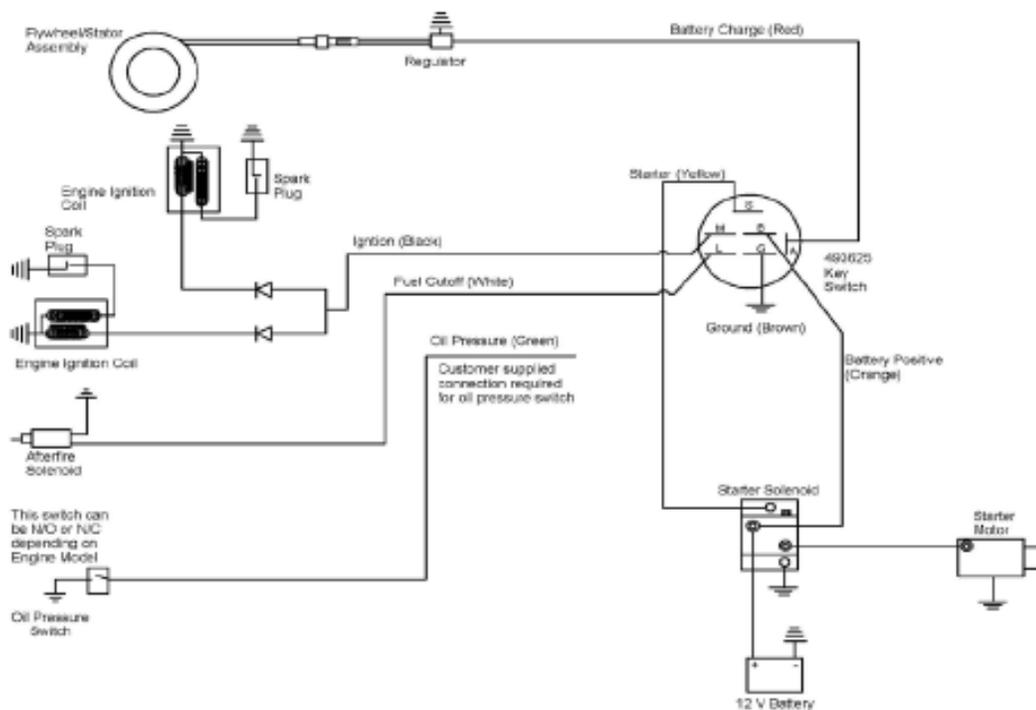
Please see your engine owner's manual for specific procedures and products to use for proper maintenance of your engine, as well as proper disposal of used parts/fluids.

CUTTER WHEEL TORQUE SPECS

We recommend that the teeth and holders be inspected after every use to maximize the usable life of these high wear items.

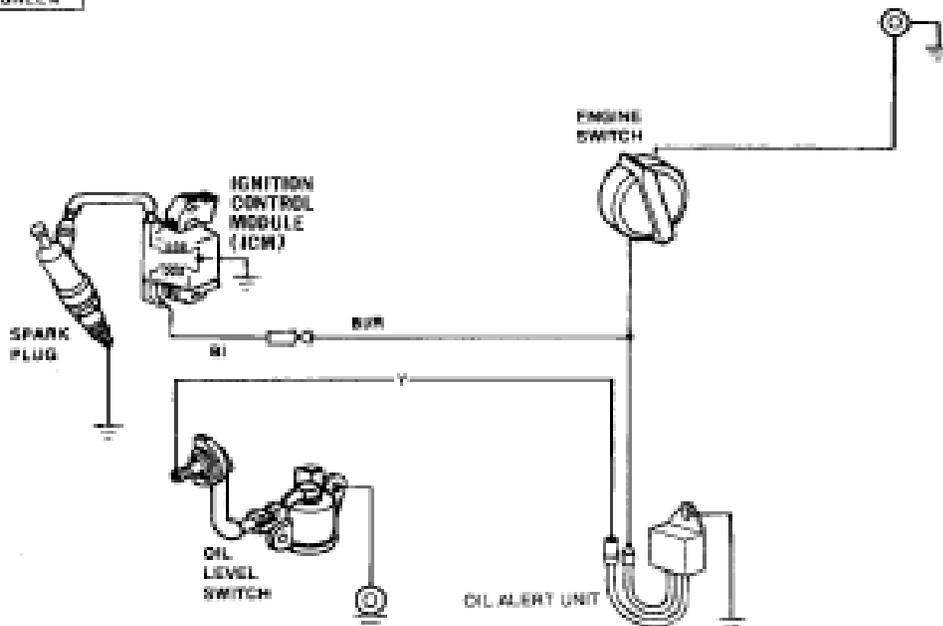
- Cutter teeth have three sides and we recommend rotating them frequently to keep the cutting edges sharp. A torque wrench should be used to torque these down to 25 ft. lbs. A worn and unsharpened tooth will cause the holders to wear prematurely, resulting in poorer performance and increased maintenance costs.
- The holders should be inspected and torqued to 180 ft. lbs. using a torque wrench as well.
- The nuts that fasten the axle and drive stubs on the cutter wheel together should be torqued to 55 ft. lbs. using a torque wrench.

ELECTRICAL SCHEMATIC- BRIGGS VANGUARD 16HP V-TWIN



ELECTRICAL SCHEMATIC- HONDA GX390

B	BLACK
Y	YELLOW
G	GREEN



STUMP GRINDER TROUBLESHOOTING GUIDE

CAUTION!! Always use extreme care when troubleshooting or making adjustments on stump grinder. Stay clear of cutter wheel when engine is running. Stop engine before disassembling any component.

Cutter Wheel Problem

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Slow cutter wheel speed 2. Rough cutting or bouncing | <p>Check and adjust belts tension</p> <p>Check teeth for wear, rotate or replace as needed</p> |
|--|--|

Brake System Problems

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Tire loose when brake engaged | <p>Check and adjust brake cable as needed</p> |
|--|---|

SPECIFICATIONS

MODEL NUMBER	E16SGB	E13SGH
DIMENSIONS	BRIGGS/VANGUARD	HONDA
Weight	406 lb. (184.55 kg)	406 lb. (184.55 kg)
Height	54.5" (1.39 m)	54.5" (1.39 m)
Length	74" (1.89 m)	74" (1.89 m)
Width	29" (744 mm)	29" (744 mm)
ENGINE		
Engines	Vanguard	Honda GX390
Fuel	Gasoline	Gasoline
Power: hp (kW) at 3600 RPM	16 hp (11.93 kW)	11.7 hp (8.73 kW)
Fuel Capacity	1.72 U.S. gallons (6.5 liters)	1.75 U.S. gallons (7 liters)
Engine Oil Capacity	1.16 quarts (1.1 liters)	1.38 quarts (1.36 liters)
Electric Start	Standard	Standard
Hour Meter	Standard	Standard