For your protection, read instructions for safe operation, including the safety suggestions, before you use your log splitter.

Log Splitter

MODEL 200

Owner’s manual
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Distributed by

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GRIPO Log Splitter - owner's manual -
WARNING
PLACING A LOG ON MACHINE AND ACTIVATING THE SPLITTING CYCLE IS A ONE PERSON OPERATION.

Congratulations! You have just purchased the fastest and most efficiently engineered log splitter made. In order to obtain the most reliable operation from your log splitter, please read and follow carefully the safety precautions, maintenance procedures and operation procedures outlined in this manual.

Your Gripo log splitter has been factory inspected and adjusted to provide you with years of trouble-free operation. Should you require service, return your log splitter to a factory authorized service center or use only factory supplied parts.

Refer to the manual supplied by the manufacturer of the gasoline engine which powers your unit for specifications, operating procedures, and warranty conditions for your power equipment.

SPECIFICATIONS
Gripo Log Splitter

Model No. 200

Maximum log length: 25-1/2"
Cycle time: 3 seconds
Force applied to log: 24 000 to 28 000 lbs
Engine: Honda engine
GX160K1QX, 5.5HP, OHV, Oil Alert
Wedge height: 6"
Overall height: 37"
Overall length: 79"
Width: 41"
Weight: 375 LBS
SAFETY PRECAUTIONS

PLACING A LOG ON MACHINE AND ACTIVATING THE SPLITTING CYCLE IS A ONE PERSON OPERATION.

GENERAL:

Know your Gripo log splitter - use it only for log splitting. Know its potential hazard areas, especially the blade (wedge) and moving parts. Keep hands away from these areas.

Wear safety glasses or goggles, leather gloves and protective footwear when operating log splitter.

Keep children at a safe distance from the work area.

Keep work area clean and unobstructed. Allow yourself room to move freely about. Level ground is important for locating your splitting operation.

Allow only responsible, trained adults to operate your Gripo log splitter. Above all, the operator must be attentive to the splitting operation at all times while the machine is in use.

Do not operate the Gripo log splitter with the belt guard or cover removed.

This is an off-road log splitter.

When not in use, keep machine locked. It should be stored in a dry place, locked and out of reach of children. Keep blade covered when not in use.

GASOLINE POWERED MODELS:

Refer to the manufacturer’s manual for operating procedures and precautions before operation.

Do not allow the flywheel speed to exceed 310 rpm (3000 engine rpm) or damage will result.
OPERATION

CAUTION:

KEEP HANDS AWAY FROM ALL MOVING PARTS.

1. Locate splitter in a clear area, on level ground, with wheels secured to prevent the machine from moving. Support the front (wedge end) on machine securely.

NOTE: Splitter should have a slight decline towards wedge.

2. Check gasoline engine for proper crankcase lubrication.

3. Start engine and allow flywheels to attain proper speed, 310 rpm (3000 engine rpm).

4. Place log on nest, pushing in onto wedge slightly (fig. 1). Always split with the grain of the wood, never against the grain. Activate the splitting cycle by pulling up sharply, on the KNOB. To retract the ram at any time during the splitting cycle, push down on KNOB. This will disengage the rack from the pinion gear.

5. If log doesn’t split on the first attempt, wait 1/2 second for the flywheels to recover speed and re-activate the splitting cycle.

NOTE: Splitting cycle can be activated any number of times if a log is particularly difficult to split.

6. If a log doesn’t advance at least 1/2 inch, deactivate splitting cycle by pushing down on the KNOB, remove log from wedge, reposition log and activate splitting cycle.

7. Keep bark or other debris from collecting under the ram. This may stop the rack from engaging the pinion gear.

MECHANICAL BREAK-IN:

With a new machine, a break-in period of approximately 5 cords is normal. During this time, the ram may return slowly, or the engine may stall during the splitting cycle.

The engine stalling can usually be cured by putting a drop or two of oil on the clutch shoes.

During this time, check the tension of the drive belt occasionally. The free-play of the belt, halfway between the clutch and flywheel, should be 1/2 inch.
MAINTENANCE

LUBRICATION:

All small bearings in your Gripe log splitter are sealed units and should have sufficient lubricant to last the life of your machine with normal use. Rack lift bearing 064 should be lubricated (fig.2).

The flywheel shaft bearings (061) have grease fittings and lubrication is required once per year. A grease gun with good quality bearing grease should be used to lubricate these bearings (fig.3).

Grease should be applied to the rack (018) and pinion gear (017) after every 5 cords split or 2-1/2 hours of operation.

No lubrication is required between the carriage bearing (023) and the frame. This area must be kept free of lubricant to insure proper operation of the Gripe log splitter (fig.4-5).

For gasoline engine lubrication and maintenance, refer to the engine manufacturer’s manual.

CARRIAGE ADJUSTMENT:

If there is too much free-play between the carriage hold downs (005) and the frame, an adjustment is necessary. To check this, turn machine off and manually pull the ram out all the way towards the wedge. If the tail of the ram has more than 1/2 inch side-to-side play, perform the following procedure:

1. With machine power OFF, pull carriage out approx. half way and lift up the KNOB, to engage the rack with the pinion. This locks the carriage in position.

2. Loosen the 3 side bolts on each side of the carriage and rack assembly.

3. Insert a single thickness of writing paper 3/8” wide by 6” long between hold down and edge of frame on one side only.

4. Manually, squeeze both hold downs together and retighten torque bolts down to 55 foot pounds with a torque wrench. The high torque on these bolts is important. NOTE: If any bolts on machine need replacement, use #5 grade bolts minimum.
CARRIAGE BEARING:

If the brass carriage bearing (023) becomes worn on one side, it can be turned over and re-used.

ADJUSTMENT OF RACK LIFT BEARING:

An adjustment of the rack lift bearing is required if, when you place the center of a straight edge (at least 4" long) against the face of this bearing (064) attached to lift bearing frame (004), the resulting angle formed with the edge of the frame is other than 90 degrees. Realignment is easily done by using pliers and turning the lift bearing frame so that the bearing face is at a 90 degree angle to the edge of the frame. It is important that this bearing be properly aligned. If it is not, the carriage will bind on the return stroke and cause undue wear on the bearing. Check this adjustment periodically with heavy use of the machine (fig. 6).

REMOVAL OF FLYWHEEL:

If removal of flywheel(s) is necessary, use the following procedure:

1. Loosen all bolts and set screws on flywheels and bearing shaft collars.

2. With a heavy drift punch, drive the pinion gear shaft back approx. 1", carefully remove this flywheel. If it is necessary to remove the second flywheel, repeat the procedure.

NOTE: Flywheels weigh 72 lbs each, use caution when removing.

3. Replace flywheels and torque both bolts to 55 foot pounds with a torque wrench.

NOTE: If pinion gear is worn, it can be reversed by using above procedure.

BENT RACK GEAR:

Check rack gear (018) for straightness by removing rack and place on a flat plane. It should not be more than 1/32" from true plane. Straighten in arbor press, being careful not to over-bend in wrong direction. If rack is bent, cam lock stop arm could be out of adjustment. File to proper clearance as shown in figure 6.

NOTE: Cam lock must go over center 3/32" to 1/8" to lock securely (fig. 6).
BELT ADJUSTMENT:

Normal V-belt free-play is 1/2". To adjust the belt, perform the following procedure:

1. Loosen the 2 motor mount clamp bolts.

2. Loosen the belt adjustment lock nut and turn the adjustment nut to get proper tension on the belt cannot be maintained, belt replacement is necessary.

3. Re-tighten the motor mount clamps bolts and check again for proper tension.

4. Tighten the belt adjustment lock nut.

WEDGE REPLACEMENT:

If for any reason the wedge must be replaced, use only factory supplied parts.

The wedge assembly (C30) must be replaced as a unit.

INSTALLING CLUTCH ON GAS ENGINE:

1. Install 3/16" x 3/16" key into engine shaft keyway.

2. Install clutch shoe assembly (hub toward engine) on shaft.

3. Install plastic washer.

4. Install bronze bearing on shaft, lining up inner key with keyway (soak this bearing in STP or heavy oil) every 100 hours of use for extended life.

5. Install clutch drum on bronze bearing with drum end toward engine.

6. Install smaller steel flat washer over shaft.

7. Install fender washer (large), lock washer and 1/4" x 28 x 1/2" long hex bolt and tighten securely.

8. Pull clutch shoe assembly toward outer end of shaft.

9. Tighten two Allen set screws on hub of clutch shoe assembly securely.
ADDITIONAL MAINTENANCE INSTRUCTIONS:

1. On all models clean rack and apply a thin coating of light grease or vaseline on top of rack to facilitate easy and quick return of ram to starting position.

2. The small bearing (OG4), which fits under lift bearing frame (OG4) to act as a guide for the rack (O18), revolves on a hollow bolt which has been specially drilled. This bolt should be greased or oiled periodically. Use a chain saw grease gun with a light grease, or a lubricant like Optimal WD40. The special drilling in the bolt allows the grease to get to the bearing (fig.2).

3. On the 5.5 HP Heavy Duty models, the clutch bushing should be greased or oiled periodically. Remove belt cover, then clutch-holding bolt, pull off drum and smear a thin coat of grease or light oil on the bushing. Replace drum and tighten bolt. Replace belt cover.

4. You should not have to move engine to do this maintenance.
WARNING
WHAT TO DO OR NOT WITH YOUR LOG SPLITTER

figure 7

Do Not

figure 8

OK

figure 9

figure 10
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TROUBLE SHOOTING

SYMPTOM:

1. Rack catching on tail tube [at end of stroke].
2. Rack returning very slow or not all the way back.
3. The knob does not stay engaged.
4. Rack slamming back too fast.

REMEDIY:

a) Adjust carriage hold downs (005) (p.9).
b) Check lift bearing (064) for alignment. See MAINTENANCE. Check for bearing damage or condition (p.10).

c) Check return spring for damage.

da) Machine (blade end) too low. Must be almost level. See OPERATION or picture on front page.

b) Pusher has been overloaded at lower part of face. Check rack gear for straightness. See OPERATION section (fig. 9). May have bent rack. See MAINTENANCE (p.10).

a) Knife not all the way up when rack comes under full load. Pull up quicker when activating machine.

b) Springs are too short, or wrong springs. Replace with original equipment.
5. Machine does not seem to have full power (sluggish on stall recovery).

6. Knob not engaging rack with pinion gear.

a) Gas motor not operating properly. Carburetor adjustment, or spark plug fouling. See Honda manual for adjustment and repair. Set speed at 3000 RPM maximum.

b) Belt slipping: too loose. Needs adjustment (p.10).

a) Clean wood chips or other debris from under rack.

b) Clean accumulated dirt from frame where carriage assembly rests against rubber bumpers (fig. 3).
GRIFO LOG SPLITTER

ÉQUIPEMENTS ESF INC., manufacturer of the GRIFO log splitter, warrants your log splitter to be free from defects in materials or workmanship under normal use and service for six months from the date of original purchase. Any and all parts which are found to be defective will be repaired or replaced at no charge (subject to discretion of ÉQUIPEMENTS ESF INC.).

NOTE: A 30-days warranty applies when equipment is sold for rental or commercial use.

No responsibility is assumed by ÉQUIPEMENTS ESF INC. for damage caused by misuse, careless handling or where repairs have been made or attempted by other than a factory authorized service center, or where damage has been caused by highway accident.

No other warranty, expressed or implied, is made by ÉQUIPEMENTS ESF INC. In order for the warranty to be valid, registration card must be received by ÉQUIPEMENTS ESF INC. within 10 days from the date of purchase.

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GRIFO LOG SPLITTER - owner's manual -