Bullmax
TOUGH TOOLS & EQUIPMENT

POST LIFTER

OPERATOR'S MANUAL

MODEL

CODE: BMPL-H50
SKU 100160

SERIAL NUMBER

_____

PURCHASE DATE

_____

POWERED by HONDA



This User Manual covers the Bullmax Post Lifter Component.
Refer to the Honda User Manual for safe operation of the Honda GX50 engine.

POST LIFTER

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INTRODUCTION

Thank you for choosing the Bullmax - Post Lifter. Your Bullmax - Post Lifter is a powerful machine that is designed to be as effective and efficient as possible. The performance of this tool is dependent upon your knowledge of the information contained in this operator's manual, as well as your understanding of the operation and care of the Honda GX50 engine installed.

The Bullmax - Post Lifter is powered by the Honda GX50 engine. Honda supplies its own operator's manual, which covers all aspects of operating and maintaining your Honda engine. The Honda manual is provided to you along with the Bullmax - Post Lifter operator's manual. Keep both manuals with your machine for reference by all operators. Follow all safety guidelines, operating instructions, and maintenance guidelines for both the Bullmax - Post Lifter and the Honda engine.

Your Bullmax - Post Lifter comes with a one-year parts warranty (see the Warranty section of this manual). We suggest that you read the warranty information and fully understand its coverage and your responsibilities of ownership.

The Honda warranty is separate from the Bullmax warranty and is subject to its own coverage conditions and responsibilities of ownership. You can find the Honda warranty included with your Honda operator's manual.

Please contact Bullmax, for parts or technical questions related to your Bullmax - Post Lifter. Please contact your local Honda service dealer for parts or technical questions related to your Honda engine.

SAFETY WARNINGS

To reduce the risk of serious injury or death, you must understand and follow the safety guidelines, operating instructions, and maintenance guidelines in this operator's manual. Please read the entire operator's manual before operating the Bullmax - Post Lifter. Never allow children or people who have not read this manual to operate this machine. Never let your post lifter run unattended. When not in use, turn the machine off to prevent unauthorised persons from using it. **DO NOT** use the Bullmax - Post Lifter for any purpose other than pulling rods, posts, and stakes from the ground. Misuse may result in serious injury to yourself or others, as well as damage to your lifter or surrounding property.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Always use approved protective equipment. Operators and all other people in the immediate working area must wear protective equipment as well. Noise emitted from the machine during operation can harm others in close proximity. Please consider this while operating. We recommend the following personal protective equipment:

- Hearing protection with a noise reduction rating (NRR) of 23 dB or greater
- Impact-resistant (ANSI Z87+) eye protection with side guards
- Protective clothing including gloves, boots, pants, etc.

PINCH POINT WARNING

To prevent serious injury to your hands or feet, follow the following pinch point guidelines. Never reach into the chain enclosure or adjust the puller jaws while the engine is running. Never place your hands between the post and the front face of the puller during operation. Keep clear of the puller jaws during operation, as they free-fall from the top of the puller and land forcefully at the base of the puller. Keep clear of the base of the puller during operation, as it is driven forcefully into the ground as the puller jaws engage the post.



PETROL AND EXHAUST

Petrol is highly flammable and explosive. You can be seriously injured when handling and storing petrol improperly. Always use an approved fuel storage container for your fuel. Never attempt to add petrol to your Bullmax - Post Lifter while the engine is hot or running, as there is a chance of fumes igniting and causing severe injury or death, as well as damage to your machine. Never use the Bullmax - Post Lifter inside a building or unventilated area. The engine exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas. These fumes can cause unconsciousness or death.

VIBRATION HAZARD WARNING

Prolonged use of a power tool exposes the operator to vibrations, which may cause white finger disease or carpal tunnel syndrome. These conditions reduce the ability of the hands to feel and regulate normal temperature, produce numbness and burning sensations, and may even cause nerve and circulation damage. If numbness, tingling, pain, clumsiness, weakened grip, whitening of the skin, or any other symptoms occur at any time when operating the machine, or after operating the machine, immediately stop use of the machine and seek medical attention. Continued use of the machine after the occurrence of any such symptom may increase the risk of symptoms becoming more severe and/or permanent.

- Wear gloves for comfort and grip. Keep hands warm while operating.
- Check the machine for loose connectors and components, as these could lead to increased levels of vibration.
- Always keep a firm grip on the handles, but **DO NOT** excessively squeeze the handles.

MAINTENANCE WARNING

Regular maintenance is a prerequisite for keeping the machine safe and functioning. With proper use and maintenance, your Bullmax - Post Lifter will provide you with years of service. Any damage or malfunction caused by unauthorised use, parts, or modifications to the machine will not be covered under warranty or carry any significance for any type of product liability.

- Carefully follow all the maintenance guidelines and operating instructions in this manual.
- Periodically inspect the puller for missing or loose components, as well as damage needing repair
- Replace damaged/worn parts immediately.
- Engine maintenance is to be conducted according to the Honda specifications found in the Honda GX50 manual. The operator needs to take careful note of all warnings and dangers outlined in the engine manual.
- For major service or repairs to the machine, contact your local Bullmax or your place of purchase.
- For engine service or repairs, contact your local Honda dealer.

ASSEMBLY INSTRUCTIONS

Item numbers in this section can be used to reference the parts diagram and parts list at the end of this manual. Included with your Bullmax - Post Lifter is a set of Allen wrenches (3, 5, 6, and 8mm), as well as a pair of snap-ring pliers. In addition to these tools, you will need either two crescent wrenches or two 30mm (1-3/16") wrenches/sockets.

INSTALL THE HANDLE ASSEMBLY

1. With the included set of Allen wrenches, remove the four M8X40 CAP SCREWS (#25) securing the HANDLE BLOCK CLAMPS (#23) to the PROTECTION BRACKET HANDLE (#21).

2. With the throttle "STOP" button facing away from the puller body, fasten the protection bracket handle to the BOTTOM PROTECTION BRACKET (#24) with the four M8x40 cap screws and handle block clamps.

INSTALL THE BASE EXTENSION

1. Locate the BASE EXTENSION (#58) withing the walls of the cardboard packaging.

2. Fasten thr base extension to the BASE (#47) with two M8X15 CAP SCREWS (#59).

INSTALL THE WHEEL ASSEMBLY

1. Screw the AXLE BRIDGE (#51) into the top set of holes on the main body with three M8X20 CAP SCREWS (#52). NOTE: The other hole sets can be used when different sized replacements wheels are installed on the puller. This prevents the puller from excessively tilting when stood upright.

2. Remove the two M20 CAP NUTS (#57) from each end of the AXLE (#53).

3. Slide the axle into the axle bridge, then slide one M20 WASHER (#54) onto each end of the axle.

4. With the included snap ring pliers, retain the M20 washers against the axle bridge using two 20MM SNAP RINGS (#55).

5. Install two 20mm snap rings onto the next set of axle grooves, then slide one M20 washer onto each end of the axle.

6. Slide one WHEEL (#56) onto each end of the axle until it reaches the washer and snap ring.

7. Slide one M20 washer onto each end of the axle, then retain the wheel and washer with one 20mm snap ring on each end of the axle.

8. Thread one M20 CAP NUT (#57) onto each end of the axle and tighten securely using two crescent wrenches or two 30mm (1-3/16") wrenches/sockets.

OPERATING INSTRUCTIONS

To reduce the risk of serious injury or death, you must understand and follow the safety guidelines, operating instructions, and maintenance guidelines in this operator's manual. Every new person who uses this machine must be educated on and fully understand the information within this operator's manual. Never allow children or people who have not read this manual to operate this machine. In addition, be sure to read and understand the starting instructions for the Honda GX50 engine. For optimal performance and to prevent potential injury or damage to your machine, please follow these guidelines:

1. **ALWAYS** keep the lifter square to the post while lifting. Otherwise, the post can become pinned to the front face of the lifter.

2. **ALWAYS** keep the post centered in the lifter jaws.

3. **ALWAYS** use the correct size jaw set for the size of post you are lifting.

4. **NEVER** place your hands between a post and the front face of the lifter, or inside the chain enclosure, during operation.

5. **KEEP CLEAR** of the lifter jaws during operation, as they free-fall from the top of the lifter and land forcefully at the base of the lifter.

6. **KEEP CLEAR** of the base of the lifter during operation, as it is driven forcefully into the ground during operation.

7. Check the oil level of the Honda GX50 engine:

- **ADD ENGINE OIL WHEN NEW**. Refer to Honda Manual for oil filling instructions.
- **DO NOT OVERFILL THE OIL RESERVOIR**

8. Visually check inside the chain enclosure for excessive debris or foreign objects, removing, as necessary.

9. Check all fasteners and tighten, as necessary.

10. **DO NOT** use your Bullmax - Post Lifter if there is any damage or wear to any of the controls or safety devices.

RESETTING LIFTER JAWS

- If the lifter jaws are not resting at the bottom of the lifter, you must reset them before interchanging jaw sets or lifting a post.
- To reset the jaws with the engine **OFF**, lift on the pawl clutch housing (#32) using the holes on its face. This will disengage the jaw assembly from the chain, allowing it to fall to the base of the lifter.
- To reset the jaws with the engine **ON**, engage the throttle until the jaws reach the top of their travel and self-release, falling to the base of the lifter.

INTERCHANGING JAWS SETS

- Always use the correct size jaw set for the size of post you are lifting. Each jaw set is marked with the size of post it is intended to be used with. To interchange jaw sets:

  1. Loosen the keeper screw (#64) with the provided Allen wrench and rotate the keeper (#61) out of the way.
  2. Slide out the old jaw set and slide in the new jaw set.
  3. Rotate the keeper over the jaw and tighten the keeper screw.

REFUELING

- Always turn the engine off and allow adequate time for it to cool before refueling. **ONLY USE**

PREMIUM UNLEADED FUEL.

- **NEVER** refuel your lifter with the engine hot, running, or in an unventilated area. Fuel vapors are extremely flammable and can cause severe injury or death if ignited by a spark or excessive heat from a hot engine.
- Fill the tank on level ground and avoid spilling fuel on the motor. Always allow any spilled fuel to evaporate before restarting the engine.
- Ensure the fuel cap is adequately tightened before restarting the engine.

LIFTING A POST

- Be sure to follow all guidelines as outlined in the Safety Warnings section and perform any required maintenance as outlined in the Service and Maintenance section prior to use.
- Before starting the engine, do the following: o If the jaws are not resting at the bottom of the lifter, reset them as described in the **Resetting Lifter Jaws** section. o Check the fit of the jaw set and interchange for a different size set if necessary. o Align the lifter with the post, with the post centered in the notch of the foot plate and the lifter jaws.
- Start the engine as outlined in the earlier sections.
- Be sure to keep one hand on the throttle and one hand on the grip during use.
- Keep the post square to the frame of the post lifter to prevent the post from binding against the machine. If not aligned properly, you could cause damage to the machine or your post.
- **Slowly** engage the throttle until the jaws engage the post; then, ease on the throttle until the post is pulled loose.
- At the top of the lifters travel, the jaws will release from the post and both the jaws, and the post will fall to the ground. If possible, have someone assist in preventing the post from falling and striking anyone/anything.
- When lifting longer posts, multiple pulls may be required to fully remove the post.
- When finished, press/hold the auto-reset button on the throttle handle until the engine turns off.

TRANSPORTING/STORING

- If transporting in the horizontal position, ensure that the gas cap is tight. Be aware that even with the gas cap tightened, there is a chance that fuel may leak from the engine. If leaking occurs during transportation, drain the engine of fuel before continued transportation.
- Store your Bullmax - Post Lifter in the upright position to prevent fuel from leaking.

SERVICE AND MAINTENANCE

The Bullmax - Post Lifter has been manufactured and designed to give you years of trouble-free post pulling. Always refer to the Honda GX50 manual for service and maintenance guidelines on your engine. The following maintenance guidelines will keep your machine in top-performing condition.

If you are experiencing an issue with the Honda engine, please contact your local Honda dealer for parts and service. Bullmax does not carry the engine parts for Honda, nor does Bullmax determine the warranty, which is honoured by Honda.

BEFORE EACH USE:

1. Ensure that the Chain Lock Shaft (#35) and Hex Flange Nut (#50) are tight. The specified torque is 74 ft-lb.

- Verify that the Nord-Lock Washers (#49) are oriented appropriately; the coarse serrations should be facing each other, and the fine serrations should be facing outward.
- Verify that the stud on the Slot-Lock Washer (#49A) is fully seated within the slot of the Base (#47).

2. Check chain tension. ½" to 1" of chain play is acceptable.

3. Check the engine oil level.

4. Check the engine air filter. If it is soiled, clean or replace it – Refer to Honda Manual.

5. Check all post lifter fasteners and retighten if necessary. If you choose to reinstall any bolts with new Loctite, you must clean the bolt and bolt hole thoroughly to remove any grease residue. The Loctite will not be effective if grease is present. Follow torque requirements for grade 8 hardware.

6. Visually check the inside of the lifter body for any debris or foreign objects, removing, as necessary.

7. Check for any fluid leaks.

FIRST 10 HOURS OF USE:

1. Change the engine oil following the guidelines in your Honda GX50 manual. Dispose of discarded oil in accordance with all local, state, and federal regulations. DO NOT OVERFILL. Always check the oil level by holding the machine in an upright position.

2. Check all engine and post lifter fasteners and retighten if necessary. If you choose to replace or reinstall any bolts with new Loctite, follow the guidelines listed above pertaining to Loctite. Follow torque requirements for grade 8 hardware.

3. LUBRICATE: Initially lubricate your post lifter with Light Chain/Cable Fluid in the following areas:

- Chain (#26)
- Bottom hinge plate bolts (#33)
- Jaw master slots (#38)

EVERY 10 HOURS OF USE:

1. Lubricate the lifter as described in Steps 2 and 3 of the **First 10 Hours Use** guidelines.

- Note: Under heavy use and/or dirty/dusty conditions, lubricate these areas more frequently.

EVERY 3 MONTHS OR 25 HOURS OF USE:

1. Change the engine oil following the guidelines in your Honda GX50 manual. Dispose of discarded oil in accordance with all local, state, and federal regulations. **DO NOT OVERFILL**.

2. Replace air filter. This should be performed more often if your post lifter is operated in dusty conditions (Refer to Honda Manual).

3. Check all engine and post lifter fasteners and retighten if necessary. If you choose to replace or reinstall any bolts with new Loctite, follow Step 3 of the **Before Each Use** guidelines pertaining to Loctite. Follow torque requirements for grade 8 hardware.

CLEANING

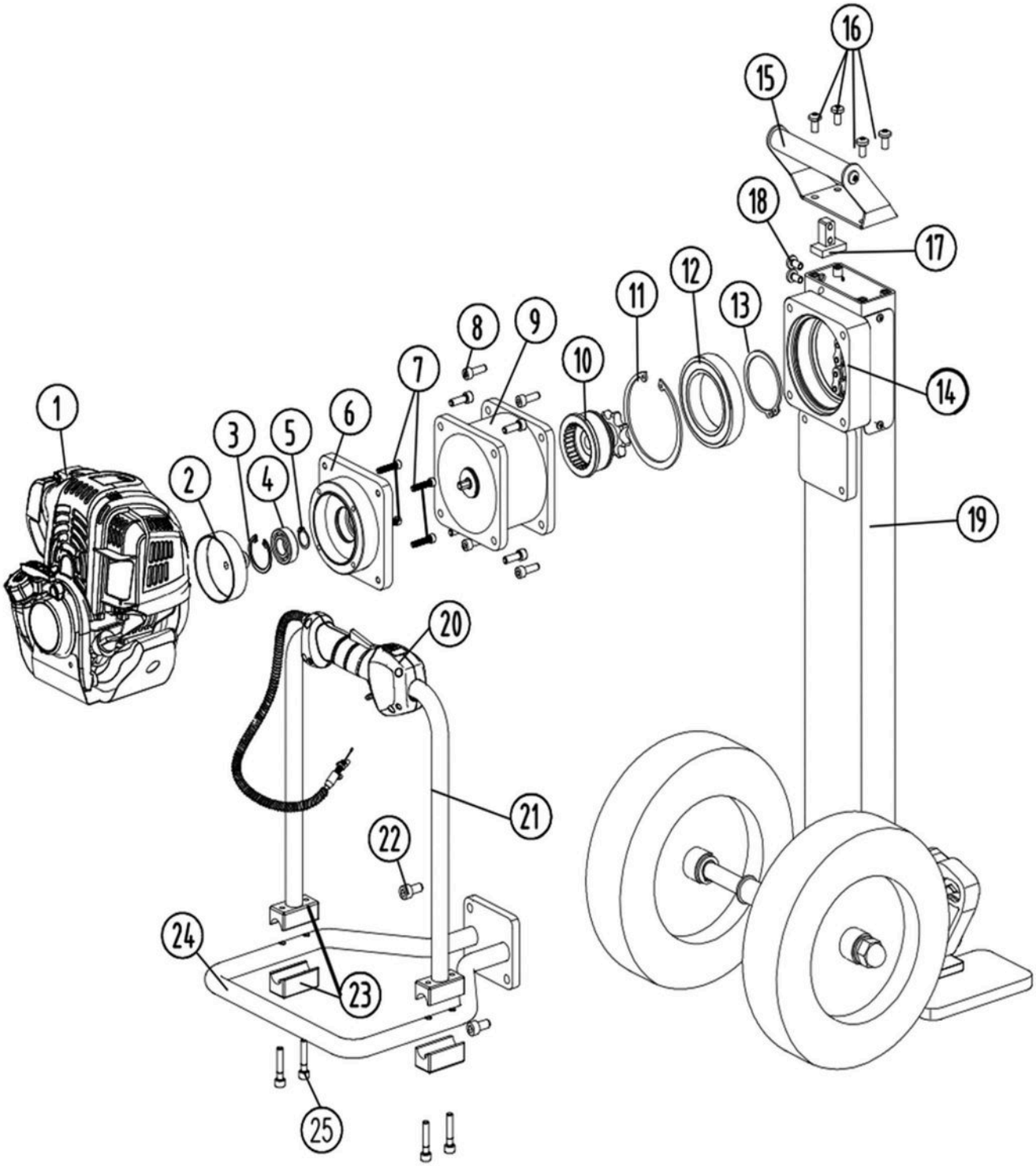
To clean your post lifter, simply spray down the exterior with water.

1. Do not use chemical cleaners to clean your post lifter.

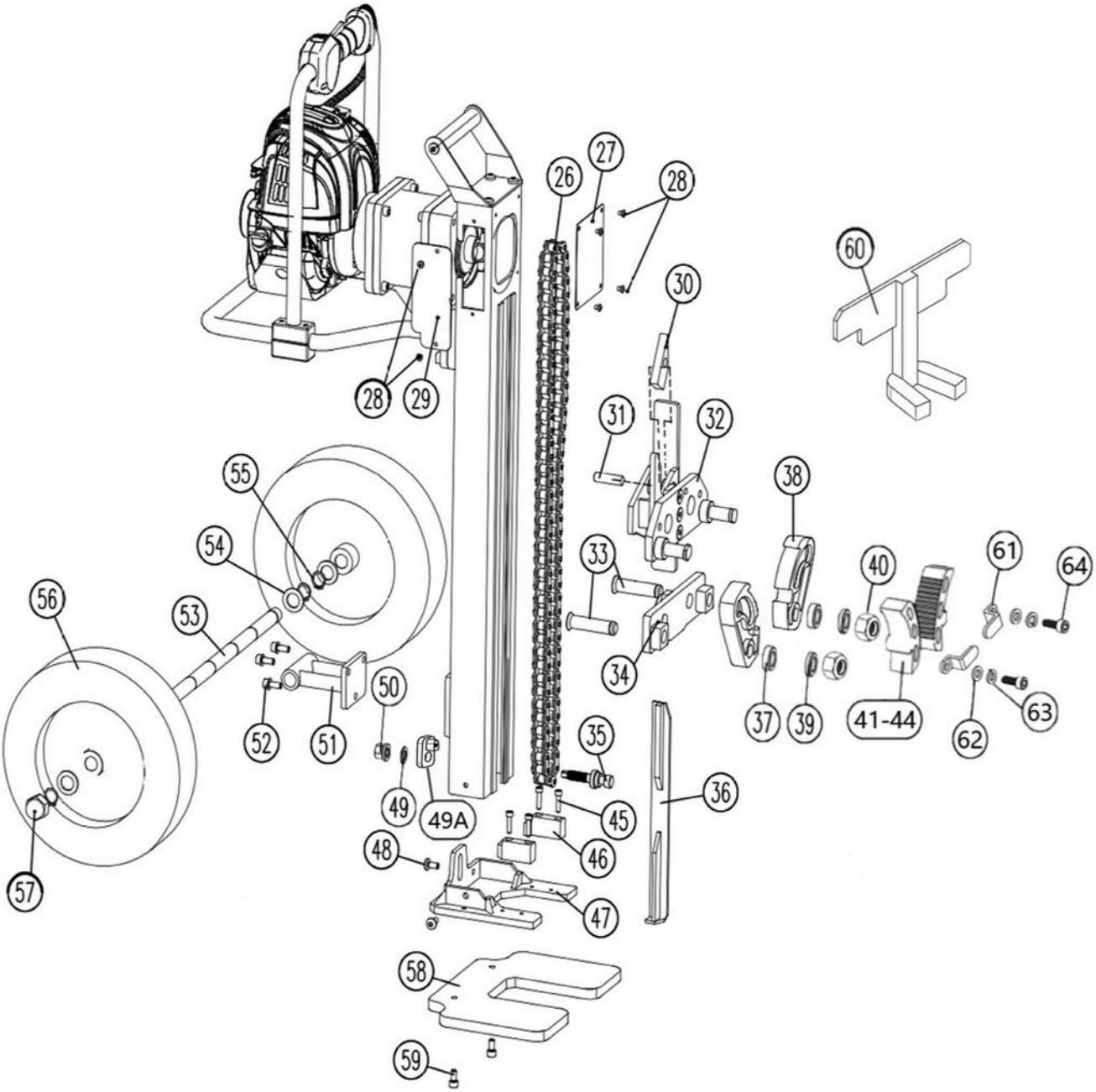
2. Do not spray water onto a hot engine. Allow the lifter and the engine to cool before cleaning.

3. Do not spray water directly into the chain enclosure or into the main body. If reassembling your post lifter fasteners using Loctite, follow Step 5 of the **Before Each Use** guidelines pertaining to Loctite. If you are experiencing performance issues with your Bullmax - Post Lifter, or have any questions not answered in this manual, please contact Bullmax or your place of purchase for more assistance.

PARTS DIAGRAM 1 OF 2 BMPL-H50



PARTS DIAGRAM 2 OF 2 BMPL-H50



PARTS LIST BMPL-H50

Individual Service Components				
No.	**Service Code**	**Description**	**Specification**	**Qty**
1	GX50TSSE4	HONDA GX50 ENGINE	SEE HONDA DEALER FOR INDIVIDUAL SERVICE PARTS	1
9	PGPGB	GEAR BOX		1
15	PGPTH	TRANSPORT HANDLE		1
17	PGPSB	STOP BLOCK		1
20	YPGD33X	THROTTLE		1
26	PGPRC	ROLLER CHAIN	#60, 3/4" PITCH, 84 LINKS	1
30	PGPPC	PAWL CLUTCH		1
34	PGPBHP	BOTTOM HINGE PLATE		1
41	PGPJ325	POST JAW SET	2.5-3.375"	2
42	PGPJ250	PORT JAW SET	1.75-2.5"	2
43	PGPJ175	POST JAW SET	1-1.75"	2
44	PGPJ100	POST JAW SET	0-1"	2
60	PGPJTS	TENT STAKE ADAPTER		1
61	PGPJK	JAW KEEPER		2
65	YPLPDPP	SAFETY LABEL	NOT SHOWN	1

Clutch Housing Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPCHK	**PGP CLUTCH HOUSING KIT**		
2		CLUTCH DRUM		1
3		INTERNAL SNAP RING	FOR ID 42MM	1
4		BALL BEARING	600402RS	1
5		EXTERNAL SNAP RING	FOR OD 20MM	1
6		CLURCH HOUSING		1
7		SOCKET HEAD CAP SCREW	M6-1.0x30	4

Handle Assembly Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPHAK	**PGP HANDLE ASSEMBLY KIT**		
21		PROTECTION BRACKET HANDLE		1
22		SOCKET HEAD CAP SCREW	M10-1.5x20	2
23		HANDLE BLOCK CLAMP		2
24		BOTTOM PROTECTION BRACKET		1
25		SOCKET HEAD CAP SCREW	M8-1.25x40	4

PARTS LIST BMPL-H50, CONT.

Sprocket Assembly Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPSAK	**PGP SPROCKET ASSEMBLY KIT**		
10		DRIVING SPROCKET		1
11		INTERNAL SNAP RING	FOR ID 110MM	1
12		BALL BEARING	6014-2RS	1
13		EXTERNAL SNAP RING	FOR OD 70MM	1

Bottom Hinge Plate Hardware Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPBHPHK	**PGP BOTTOM HINGE PLATE HARDWARE KIT**		
33		BOTTOM HINGE PLATE BOLTS		2
34		BOTTOM HINGE PLATE		1
37		SPACER	Φ33xΦ18.5x10	2
38		CHUCK JAW MASTER SET	DOES NOT INCLUDE #41-44	1
39		WASHER	M18	2
40		NYLON-INSERT LOCK NUT	M18-1.5	2
61		JAW KEEPER		2
62		WASHER	M6	2
63		SPLIT LOCK WASHER	M6	2
64		SOCKET HEAD CAP SCREW	M6-1.0x15	2

Wheel and Axle Assembly				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPWAK	**PGP WHEEL AND AXLE ASSEMBLY KIT**		
51		AXLE BRIDGE		1
52		SOCKET HEAD CAP SCREW	M8-1.25x20	3
53		WHEEL AXLE		1
54		WASHER	M20	6
55		EXTERNAL SNAP RING	FOR OD 20MM	6
56		NEVER-FLAT WHEEL		2
57		HEX CAP NUT	M20	2

PARTS LIST BMPL-H50, CONT.

Lift Mechanism Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPLMK	**PGP LIFT MECHANISM KIT**		
26		CHAIN	#60, 3/4" PITCH, 84 LINKS	1
30		PAWL CLUTCH		1
31		PAWL CLUTCH PIN		1
32		PAWL CLUTCH HOUSING		1
36		SLIDING BAR		1

Chain Lock Shaft Hardware Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPCLSHK	**PGP CHAIN LOCK SHAFT HARDWARE KIT**		
35		CHAIN LOCK SHAFT		1
49		NORD-LOCK WASHER PAIR	M12	1
49A		SLOT-LOCK WASHER		1
50		FLANGED HEX NUT	M12-1.75	1

Jaw Bumper Kit				
No.	**Service Code**	**Description**	**Specification**	**Qty**
	PGPJBK	**PGP JAW BUMPER KIT**		
45		SOCKET HEAD CAP SCREW	M6-1.0x25	4
46		JAW BUMPER		2

PARTS LIST BMPL-H50, CONT.

Hardware Specification Information				
No.	**Service Code**	**Description**	**Specification**	**Qty**
3		INTERNAL SNAG RING	FOR OD 42MM	1
4		BALL BEARING	6004-2RS	1
5		EXTERNAL SNAG RING	FOR OD 20MM	1
7		SOCKET HEAD CAP SCREW	M6-1.0x30	4
8		SOCKET HEAD CAP SCREW	M8-1.25x35	8
11		INTERNAL SNAP RING	FOR ID 110MM	1
12		BALL BEARING	6014-2RS	1
13		EXTERNAL SNAP RING	FOR OD 70MM	1
16		BUTTON HEAD CAP SCREW	M8-1.25x15	4
18		BUTTON HEAD CAP SCREW	M8-1.25x15	2
22		SOCKET HEAD CAP SCREW	M10-1.5x20	2
25		SOCKET HEAD CAP SCREW	M8-1.25x40	4
28		BUTTON HEAD CAP SCREW	M5-0.75x6	6
37		SPACER	Φ33xΦ18.5x10	2
39		WASHER	M18	2
40		NYLON-INSERT LOCK NUT	M18-1.5	2
45		SOCKET HEAD CAP SCREW	M6-1.0x25	4
48		BUTTON HEAD CAP SCREW	M8-1.25x15	2
49		NORD-LOCK WASHER PAIR	M12	1
50		FLANGED HEX NUT	M12-1.75	1
52		SOCKET HEAD CAP SCREW	M8-1.25x20	3
54		WASHER	M20	6
55		EXTERNAL SNAG RING	FOR OD 20mm	6
57		HEX CAP NUT	M20	2
59		SOCKET HEAD CAP SCREW	M8-1.25x15	2
62		WASHER	M6	2
63		SPLIT LOCK WASHER	M6	2
64		SOCKET HEAD CAP SCREW	M6-1.0x15	2

WARRANTY

Bullmax will warrant to the original purchaser, who purchases the equipment in new condition and in its original packaging from an authorised dealer, that its petrol-powered post lifter will be free from defects in workmanship and materials for a period of one (1) year. This warranty period will commence on the date of retail purchase by the original purchaser. Bullmax provides no warranty on the Honda engine. This warranty is provided directly by Honda.

- For warranty claims, contact your Bulllmax distributor with proof of purchase date and your serial number.

LIMITATIONS OF WARRANTY

This limited warranty does not extend to any Bullmax product which has been misused, abused, mishandled (e.g., dropped), improperly maintained, altered, or repaired by an unauthorised person. Nor does this limited warranty cover any damage to the machine/parts due to faulty parts installation.

- Damage to components caused by operator error will not be considered warrantable.
- Damage to cosmetic parts caused by rough handling, operator error, or improper storage, handling, and maintenance will not be considered for warranty replacement or service.
- Excluded components may need replacement or repair due to normal wear and tear, or improper use/maintenance include:

1. Chain (#26)

- **NOTE**: The Bullmax - Post Lifter is designed such that the chain will fail before major components, including the engine, gear box, drive sprocket, etc. Chain failure indicates excessive loading of the machine.

2. Pawl clutch (#30)

3. Jaw sets (#41-44, #60), wheels (#56), bumpers (#46), and other attachments.

DISCLAIMER OF WARRANTY

Bullmax disclaims all liability for any implied warranties. Under no circumstances shall Bullmax be liable for any loss of business, revenues, profit, or indirect, incidental, special, or consequential damages or loss arising out of any defect in, or performance of, Bullmax products, how so ever caused. For warranty terms on your Honda GX50 engine, please refer to the separate warranty in the Honda manual provided with your post lifter.

NOTES

NOTES

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Bullmax
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