CROMMELINS STAR PICKET DRIVERS

OPERATION & INSTRUCTION MANUAL

Thank you for selecting a Crommelins Star Picket Driver. This Operation Manual explains its use, installation, checking and maintenance. We highly recommend that you retain this manual for ready reference regarding its proper handling.







Head Office: (08) 9350 5588
www.crommelins.com.au

Sales: 1300 650 659
Customer Service 1300 554 524
sales@crommelins.com.au

Thank you very much for purchasing a Crommelins Star Picket Driver which can be used by fencing contractors, landscaping, farmers, shires and councils, hire industries and general use. Never use this generator for any other purpose. This manual covers its operation and maintenance.

Please take a moment to familiarise yourself with the proper operation and maintenance procedures to ensure the safe and efficient use of this product. Keep this manual at hand, so that you can refer to it at any time.

Due to constant efforts to improve our products, certain procedures and specifications are subject to change without notice.

When ordering spare parts, please have handy the product's model and serial numbers. Please fill in the following blanks after checking the model and serial numbers of your product. (The location of these numbers varies depending on product).

MODEL NO														
SERIAL NO														

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1 WARRANTY

CROMMELINS™ and CROMTECH™ are a registered trademark of Crommelins Machinery. Crommelins warrants their goods against defects in materials and workmanship under normal use and service. Crommelins Machinery warranty does not cover fair wear commensurate with the age of the product, any damage caused by accident, abuse, misuse, neglect, or failure to observe proper operating instructions or proper machinery maintenance as described in the instruction manual.

It is the owner's responsibility to regularly maintain a product in accordance with the instruction manual and only use the equipment for its designed purpose.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

2 CONSUMER ADVICE

Any claim under these warranties must be made in the warranty period from the date of purchase of the product.

To make a claim under the warranty, you must return the product (with proof of purchase) to the closest warranty agent or to the place of purchase.

Crommelins Machinery has over a hundred national authorised dealers/service repair agents available, visit www.crommelins.com.au for their details and locations.

Where a failure does not amount to a major failure, Crommelins Machinery is entitled to choose between providing you with a repair, replacement, or refund. To obtain compensation, you would need to provide documentary evidence of the loss or damage suffered, and documentary evidence that such loss or damage was a reasonably foreseeable consequence of a failure by Crommelins Machinery to comply with a consumer guarantee under the Australian Consumer Law.

Crommelins Operations Pty Ltd trading as Crommelins Machinery and Crommelins Australia.

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3 GENERAL DESCRIPTION

The Star Picket Driver is powered by a 4-Stroke engine. Its purpose is to assist you in driving posts or rods into the ground. Your Star Picket Driver comes with a one-year unit warranty and a three-year engine warranty.

4 SAFETY PRECAUTIONS

This manual contains important information on how to use Crommelins Star Picket Driver properly and safely. You must read through this manual carefully before you attempt to operate this product.

Take safety seriously, Crommelins Star Picket Driver are designed to give safe and dependable service if operated according to the instructions. Pay special attention to statements preceded by the following words:

⚠ WARNING **"WARNING" indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.**

⚠ CAUTION **"CAUTION" indicates a possibility of personal injury or equipment damage if instructions are not followed.**

4.1 RESPONSIBILITY

⚠ WARNING

- The Crommelins Star Picket Driver may only be operated by persons who are familiar with the safety rules and the operation manual. First and foremost, users must be able to stop the machine immediately.
- Never let your post driver run unattended. When not in use, shut it off to prevent unauthorized persons from using it.
- Operators are responsible for all damage caused to a third party.
- The Crommelins Star Picket Driver is only to be used for the purpose of driving posts or rods into the ground. Misuse may result in serious injury to yourself or others, as well as causing damage to your driver or other surrounding property.
- If the machine is used for any other purpose than described, the warranty and the responsibility of both the manufacturer and distributor will be null and void.
- The warranty will also be invalidated in the case of unauthorized intervention on the machine and whenever the safety instructions, as described in the following enclosures, are not followed.
- The user should be aware of the rules and regulations concerning the environment and noise levels. When using the Crommelins Star Picket Driver it is necessary for the user to wear personal protective equipment against noise (ear protection).
- In case of professional use of the Crommelins Star Picket Driver, the instructor must provide the user of the driver with sufficient (written) instructions to guarantee safe use.

4.2 UNDERGROUND UTILITIES

⚠ WARNING

Prior to driving any object into the ground, always have the location of underground utilities identified by a certified locating service. Driving posts or rods into an underground utility line can be extremely dangerous. Severe / or life threatening personal and property damage can occur, be absolutely certain you know where the underground utilities are located.

Underground utilities that may be present include, but are not limited to: electric, gas, telephone, water, sewer, TV cable, lawn sprinklers, etc.

REMEMBER: DIAL 1100 BEFORE YOU DIG

4.3 GASOLINE AND EXHAUST

⚠ WARNING

Gasoline is highly flammable and explosive. You can be seriously injured when not handling and storing gasoline properly. Always use the approved petrol storage container for your fuel. Never attempt to add gasoline to your Crommelins Star Picket Driver while the engine is hot or running, as there is a chance of fumes igniting and causing severe personal damage, as well as damage to your machine.

Never use the Crommelins Star Picket Driver inside of a building or un-ventilated 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.

4.4 PERSONAL PROTECTIVE EQUIPMENT (PPE)

⚠ WARNING

Always use approved protective equipment. Operators and all other persons in the immediate working area must wear protective equipment as well. Noise emitted from the machine while working can reach above 100db which can also harm others nearby, please consider this while operating.

- Personal protective equipment that is recommended, but not limited to is:
- Hearing protection with minimum class 4 Greater than 22db attenuation
- Impact resistant eye protection with side guards
- Protective gloves
- Protective boots

4.5 VIBRATION HAZARD WARNING

⚠ 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 hand's ability 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 when not operating the machine; immediately discontinue 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.

- The Crommelins Star Picket Driver is designed with internal spring dampened handles to reduce the amount of vibration transmitted to the operator.
- Wear gloves for comfort and grip. Keep hands warm while operating.
- Check the machine for loose connectors / components, as these could lead to increased levels of vibration.
- Always keep a firm grip on the handles, however, do not excessively squeeze the handles.

4.6 MAINTENANCE WARNING

⚠ WARNING

If the warning labels on your post driver are not able to be clearly read, replace them immediately. Call your local service agent for new warning labels.

Regular maintenance is a prerequisite for keeping the machine safe and effective. Carefully follow all the operating instructions. Any damage or malfunction caused by unauthorized use, parts, or modifications to the machine will not be covered by warranty or carry any significance for any type of product liability.

- Do not use the equipment if wear or damage is evident. Replace damaged parts immediately.
- Comply with occupational health and safety regulations when servicing the equipment, and make sure you have adequate ventilation when using cleaning fluids.
- Engine maintenance is to be carried out according to the engine manual. The operator needs to take careful note of all warnings and dangers also outlined in the engine manual.
- For major service / repairs contact your local service agent.

5 OPERATION INSTRUCTIONS

5.1 INTRODUCTION AND UNDERSTANDING YOUR POST DRIVER

Your post driver is designed to be as effective and efficient as possible, whilst being extremely powerful and light weight. It is very important to understand that your post driver is a powerful machine. With proper use and maintenance, your post driver will provide you with many years of service.

⚠ WARNING

To reduce the risk of serious injury or death to yourself or others; you must read and understand the safety and operating instructions in this operator's manual. Every new person who uses this machine must be educated and fully understand the operator's manual. Never allow an un-informed person to use your post driver.

- The petrol-powered post driver is 100 percent self-contained; no other sources of power such as hydraulics or air compressors are required.
- Custom centre bored reducer sleeves are available for grounding rods, rebar and other types of stakes.
- Be sure to read and understand the starting instructions for the engine provided.
- The engine is "inclinable" which means it is designed operate at any angle.

For optimum performance, the machine is designed to be used with low viscosity NLG "0" specification grease. Any other type of grease will be detrimental to the function.



5.2 ACTIONS BEFORE STARTING

Follow these guidelines every time you use your machine!

- Place the machine on a secure solid surface out in an open area.
- Ensure Driver is configured for post/picket being driven (use a sleeve if required).
- Check engine oil.

⚠ CAUTION

Oil **MUST** be filled into engine before starting the engine. Refer to engine manual for oil levels, type. Use oil specified in manual.

DO NOT overfill, always hold driver in upright position to check oil level! Proper oil level is essential for the correct operation of the post driver. Overfilling the oil will result in loss of power and could cause permanent damage to your engine.

- Check the fuel level, use petrol unleaded fuel only.
- Visually check the hammer and the barrel; look up into the barrel for excessive debris or foreign objects.
- Check all fasteners and tighten as may be necessary.
- Do not use your Crommelins Star Picket Driver if there is any damage or wear to any of the controls or safety devices.
- Be sure to use all the recommended personal protective equipment.

5.3 SAFE STARTING OF YOUR DRIVER

⚠ WARNING

- You **MUST** read and understand the safety and operating instructions in this operator's manual, to reduce the risk of serious injury or death to yourself or others.
- **NEVER ALLOW** an un-informed person to use your post driver. Every new person who uses this machine must be educated and fully understand the operator's manual.
- **USE ONLY** the Recoil Start to pull the starter rope, do not allow Recoil Start to snap back, let the starter rope return gradually. **DO NOT** extend the starter rope to its full length. **FAILURE** to follow this procedure may result in **SERIOUS INJURY** to hand or fingers, or may damage the starting mechanism.
- Maintain a good safe posture and balance.
- **DO NOT** start the driver anywhere except in an open and well-ventilated area. **NEVER USE** your machine inside an enclosed building.

STEP 1 Turn the choke lever to OPEN.
STEP 2 Press the priming bulb until fuel can be seen inside the fuel return line.
STEP 3 Pull on the starter grip to start the engine, and gently return the starter grip to normal position.
STEP 4 Turn the choke lever to CLOSED once the engine has started and warmed up

5.4 STOPPING THE ENGINE

To stop the engine push the red stop button on the throttle assembly. Once stopped, the switch automatically resets to ON for easy restarting.

5.5 RESTARTING A HOT ENGINE

If the engine is operated at a high ambient temperature for a good amount of time, and then turned off to sit for a short time to cool off, it may not restart on the first pull.

⚠ WARNING

USE the following procedure; **FAILURE** to do so may result in personal injury!

STEP 1 Move the choke lever to the "OPEN" position.
STEP 2 Hold the throttle in max speed position.
STEP 3 Pull the starter grip 3 to 5 times.
STEP 4 Follow the "safe starting" procedures listed above and start the engine with the choke in the "OPEN" position.

5.6 REFUELLING YOUR POST DRIVER

⚠ WARNING

- **NEVER** refuel your driver with the engine hot or running.
- Fuel vapours are extremely flammable and can cause **SEVERE INJURY OR DEATH** if ignited by a spark or excessive heat from a hot engine.

- Always switch the engine "OFF" and allow adequate time to cool down before refuelling. Use unleaded fuel only
- Fill the tank on level ground and avoid spilling the fuel on the motor. Always allow any spilt fuel to evaporate before restarting the engine.
- Ensure the fuel cap is adequately tightened before restarting the engine.

5.7 DRIVING A PICKET OR POST INTO THE GROUND

- Start engine safely as outlined above.
- Put on personal protective equipment as outlined above.
- Take a firm stance with weight evenly distributed on both feet. Keep both feet securely planted at a minimum of shoulder width apart.

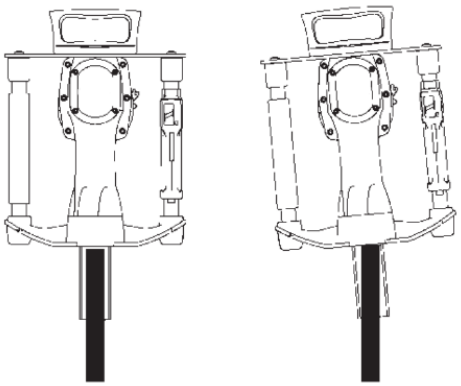
⚠ WARNING

- **ALWAYS** maintain a solid balance while driving post. Lift the post driver onto the post and ensure the driver is sitting level and the post is centred up in the barrel of the driver.
- If not aligned properly, you could **CAUSE DAMAGE** to the machine or your post! (See figure 1.)

CORRECT INCORRECT

Figure 1: Post driver level example

- Apply downward force on the machine handles to provide 4 – 5 kilograms of down pressure to ensure that the hammering action is correct. Once you are confident that the machine is being held level and the post is centered; gradually open the throttle until the machine starts driving.
- When you are sure the post is moving down into the ground correctly, open the throttle fully and keep driving until the top of the post is at the required height.



NOTE: Always keep both hands on the driver and maintain the 4 – 5 kilograms of pressure whilst driving the post into the ground.

- Take care that the barrel of the driver does not come into contact with the ground; this will take the down pressure off the machine and may cause unnecessary damage to your driver.
- When the post is at the required height, close the throttle and gently slide the machine off the post, move to the next post and repeat the above procedure.

NOTE: Always fully close the throttle to stop the hammer action prior to removing from the post.

- You can leave the engine idling, there is no need to repeatedly turn the engine off and on.

5.8 POTENTIAL DRY-FIRE OR MIS-FIRE OF POST

For optimum performance and to prevent the potential for dry-fire or mis-fire of a post, please follow these guidelines:

Always apply downward force on the machine to provide 4 – 5 kilograms of pressure

STEP 1 Keep driver level on the post at all times

STEP 2 Do not allow the barrel of the driver to come into contact with the ground

STEP 3 Do not open the throttle unless driver is loaded on post

STEP 4 In the event of dry-fire or mis-fire you will need to re-engage your hammer by lifting the driver up and setting it back down on the post with some pressure applied.

STEP 5 Continual dry-fire or mis-fire will cause damage to your driver which will not be covered under the terms of the warranty.

6 MAINTENANCE

The Crommelins Star Picket Driver has been manufactured and designed to give you years of trouble-free use. Always refer to the engine manual for service and maintenance guidelines on your engine. The following maintenance guidelines will keep your machine in top performance condition. Always take care to properly store your Crommelins Star Picket Driver.

⚠ CAUTION

DO NOT lay the machine horizontally on the driver side or resting on the engine.

The recommended method of storing is in an upright position, however if this is not possible, place on a flat surface with the barrel and engine guard supporting the machine at an angle, so that the top handle is the highest point. If you are experiencing an issue with the Engine, please contact your local dealer for service and/or parts.

6.1 EACH USE

- Check engine oil level by holding the machine in an upright position. Lying machine down to check will give you a false reading. Use recommended oil to top off oil if necessary.
- Check the engine air cleaner, if overly soiled; clean or replace.
- Check all post driver fasteners and retighten if necessary. If you choose to re-install any bolts with new Loctite; you must clean the bolt and the area of the bolt hole with parts cleaner to remove any grease residue, or the Loctite will not be effective if grease is present.
- Visually check the inside of the barrel and the hammer for any debris or foreign objects.

6.2 FIRST 10 HOURS USE:

- Change engine oil following the guidelines in your engine manual. Dispose of discarded oil in accordance with all your local, state, and federal regulations.

NOTE: Do not overfill; always check the oil level by holding the machine in an upright position!

- Check all engine and post driver fasteners and retighten if necessary. If you choose to replace or reinstall any bolts with new Loctite, follow the above listed guidelines pertaining to Loctite.

6.3 EVERY 3 MONTHS OR 25 HOURS OF USE:

- Change engine oil following the guidelines in your engine manual. Dispose of discarded oil in accordance with all your local, state, and federal regulations. Do not overfill!
- Replace air cleaner elements. This should be performed more often if your post driver is operated in dusty conditions.
- Check all engine and post driver fasteners and retighten if necessary. If you replace or reinstall any bolts with new Loctite, follow guidelines pertaining to Loctite bottle.

6.4 EVERY 4 MONTHS OR 50 HOURS OF USE:

- Remove the crank housing cover to check the EP 0 grease level. The crank area should look clean and grease should be visible around the crank area and top of piston. There should be a ring of grease collected against the wall of the crank case.

If the ring of grease around the crank case wall measures less than ¼" (6mm), this is an indication the grease level is low. Add more EP 0 grease, you never want to exceed ½" (12mm) of grease ring around the crank case walls.

⚠ WARNING

DO NOT over fill the crank case with grease; this can damage the driver and engine. (See figure 2.)



Figure 2: Grease ring example

- If the grease is very dark or black in color, or is full of debris, the post driver will require further maintenance. This is detailed in the section titled "servicing of the hammer".
- In the event of complete removal of old grease, the level of the fresh new grease should be to the bottom of the crank pin, fill with 100mL of EP 0 grease. (See figure 3.)



Figure 3 new grease example (before any single use)

6.5 EVERY 12 MONTHS OR 250 HOURS OF USE:

- Follow the above regular scheduled maintenance guidelines for every 3 months or 25 hours of use.
- Follow the above regular scheduled maintenance guidelines for every 4 months or 50 hours of use.
- Remove and service the hammer and anvil according to the guidelines in section titled "servicing of hammer"
- Replace all O-rings and housing seals. Contact Crommelins Machinery for spare parts.

⚠ CAUTION

- The amount and type of grease used in your Crommelins Star Picket Driver is critical for the performance and service life of your post driver. Not enough grease will **CAUSE FAILURE**, and too much grease will over-burden the piston and affect the hammering power of the machine. **USE ONLY** approved EP 0 grease.
- **ALWAYS** re-assemble your driver fasteners using loctite blue 243. Remember to clean the fastener and the holes with a parts cleaner to remove all grease residue, or the loctite will not be effective!

NOTE: If you are unsure of anything in this manual, please contact your Local Service agent. If you are experiencing performance issues with your post driver, please refer to the troubleshooting section in this manual for possible solutions.

7 SERVICING OF HAMMER AND ANVIL (RE-BUILD)

7.1 BOTTOM DRIVER BODY

- Remove the 6 bolts of the bottom half of the lower driver body. Be aware the handle tubes have anti-vibration springs which are installed under tension. The damper assembly washer will sometimes be removed with the lower driver body, or it may remain in place in the upper driver body.
- Remove the damper section and inspect the rubber O-rings and steel components for wear or debris.

NOTE: Take notice of the orientation of the damper assembly parts, as they must be oriented the same way when re-installed.

- Remove bottom striker (hammer that hits the post) and locate the Viton O-ring and replace it. The bottom striker is made of high-quality hardened tool steel and should not show any signs of wear. Thoroughly clean the bottom striker (See figure 4 and figure 5).



Figure 4: View when lower driver body is removed



Figure 5: damper assembly, top and bottom hammer

7.2 TOP DRIVER BODY

- To remove the top hammer, gently tap the main cast housing vertically down on a soft bench top and it should slide out of the barrel. Locate the Viton O-ring and replace it. The top hammer is made of high quality hardened tool steel and should not show any signs of wear. Thoroughly clean the top hammer.

- To remove the piston and connecting rod, you will need to remove the LEFT HAND THREAD crank pin from the crank and gently push the piston through the bottom of the housing. To access the crank pin, see guidelines listed above in section titled “service crank case”.

⚠ CAUTION

Use caution when holding the connecting rod and crankshaft to not damage these components.

- Clean and inspect the piston and connecting rod. Insert the crank pin into the bearing on the connecting rod to check for fit; if there is excessive play or side to side movement, it is possible you may need to replace the crank pin. Check the movement in the bearing in the

piston side, if there is excessive play the connecting rod should be replaced. Locate the Viton O-ring on the piston and replace it at this time (See figure 6 and figure 7)

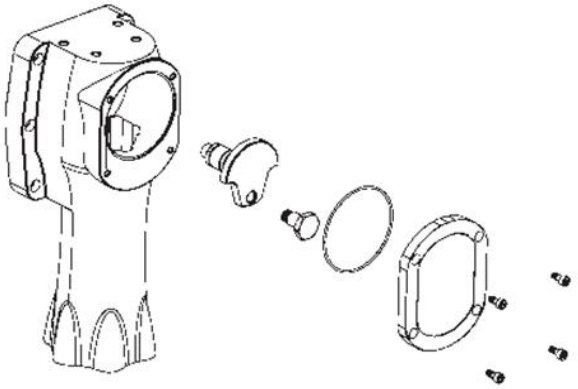


Figure 6 location of LEFT HAND crank pin



Figure 7 piston with connecting rod in place

- Clean and inspect the cylinder and crank case for any damage or excessive wear. Replace any damaged parts you may identify.
- Remove the inner springs of the handle to clean and lubricate each one. Check all handle cups for any excessive wear. Clean and lubricate the upper and lower cups.

7.3 RE-ASSEMBLY OF POST DRIVER

STEP 1 After thoroughly cleaning and drying the hammer components and the cylinder, the re-assembly can be done.

STEP 2 Apply a wipe of EP 0 grease around O-ring and outside of piston and gently push back into the housing using a soft dolly.

STEP 3 Add a small amount of EP 0 grease to the crank pin and re-assemble remembering IT IS A LEFT HAND THREAD! – Torque the crank pin to 228in/lbs – 262.68kg/cm – 2.576kn/m – **DO NOT** over-tighten this pin!

STEP 4 Add a wipe of EP 0 grease to the outside of top hammer and gently push into the housing with the O-ring towards the top.

STEP 5 For the bottom hammer section, add a wipe of EP 0 grease to the bottom hammer (striker) and push the bottom hammer into the guide tube.

STEP 6 Re-assemble the damper assembly with a small amount of EP 0 grease to all components.

NOTE: The hammer "Guide Ring" should be orientated correctly so the side with the large chamfer (slightly rounded edge) is facing down towards the bottom hammer. Remember, round to the ground. See figure 8.

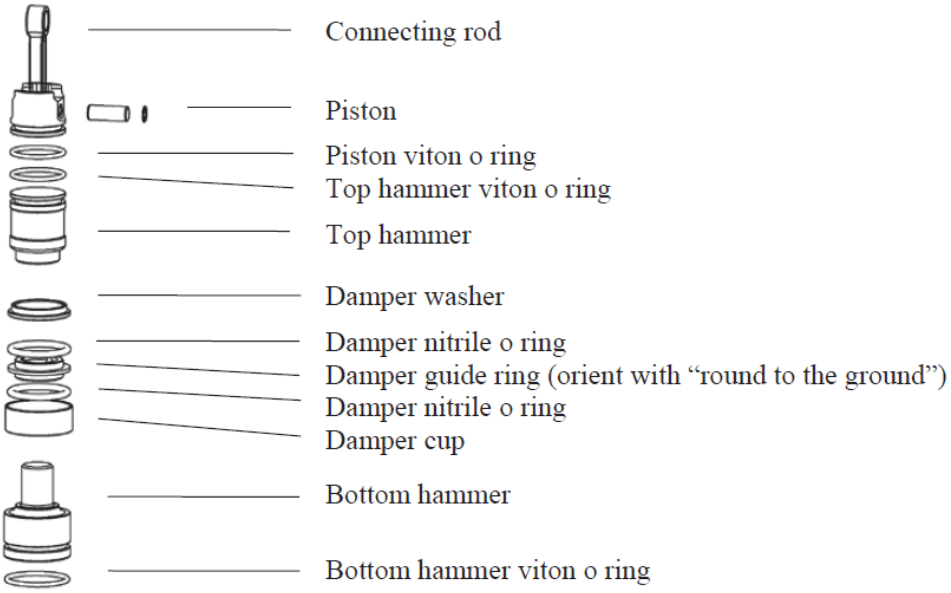


Figure 8: View of the orientation of internal parts.

STEP 7 Install the metal damper washer back over the bottom hammer.

STEP 8 Install bottom guide section back into the main housing being sure to install the new thin section bottom housing O-ring.

STEP 9 Insert anti-vibration springs back into the handles and re-install into the upper and lower handle cups. When parts are inserted correctly, there will be resistance from the springs to seat the lower driver body, this is normal.

STEP 10 Re-install the bottom housing bolts with new Loctite; you must clean the bolt and the area of the bolt hole with parts cleaner to remove any grease residue, or the Loctite will not be effective if grease is present. Torque these bolts to 132 in/lbs - 152kg/m - 0.014kn/m.

STEP 11 Add 70mL of new EP 0 grease to the crank area and re-install the crank cover bolts with new Loctite; you must clean the bolt and the area of the bolt hole with parts cleaner to remove any grease residue, or the Loctite will not be effective if grease is present.

⚠ CAUTION

All screws should be correctly tightened in an alternate pattern as machine damage will occur from loose or lost bolts due to improper installation.

8 TORQUE AND CAPACITY

Bottom Housing Bolts	132 in/lbs - 152kg/m - 0.014kn/m
Gear Box Crankpin (left hand thread)	228in/lbs - 262.68kg/m – 0.025kn/m
Gearbox Case Grease Capacity	100mL
Engine Drive Case Capacity	70mL
Grease Type – low viscosity NLG 0 Type	EP 0

9 FEATURES AND SPECIFICATIONS

9.1 Specifications

Model No	SPX52HP	SPX82HP
Picket Capacity	50.8mm (up to 2”)	82mm (Up to 3¼”)
Blow	1720/min	1720/min
Impact Force	1100kg	1600kg
Engine	Honda GX35 Engine	Honda GX35 Engine
Engine Features	Air Cooled	Air Cooled
Fuel Type	Petrol	Petrol
Weight	16kg	19.5kg
Dimensions	590x340x200mm	590x340x200mm

9.2 Features and Optional Extras

Standard Features	Optional Extras
• Honda GX35 engine • Petrol Powered • Large Impact Force (provides efficient driving)	• Reduction Sleeves (see below) • Storage Cradle – Model No: PDCRADDLE

• Anti-vibration handles • Compact and easily transportable	• Multi-Function Handle Kit – Model No: PDXHDKITE • Extension Handle Kit – Model No: PDXHDKITA



Multi-Function Handle Kit



Reduction Sleeve



Extension Handle Kit



Storage Cradle

9.3 Reduction Sleeves Available

Size	Model No	Part No
¾”	SPX52HP	PDX52075
1½”	SPX52HP	PDX5215
Collar	SPX52HP	PDX52C
2”	SPX82HP	PDX822
2¼”	SPX82HP	PDX82225
Collar	SPX82HP	PDX82C

10TROUBLESHOOTING

- If your driver sounds like it is running fine, however the striker is not hammering as it should; make sure your striker is fully engaged. There is a ‘safety wedge’ which will disengage the striker if it is dry fired or misfired. To re-engage the striker, simply pick the driver up off the post and then place it back down on the post with a bit of force to hit the striker against the post. AVOID REPEATED DRY FIRE by maintaining 4 to 5 kilograms of down pressure!

- Check the type of grease in the crank; ONLY use the EP 0 grease which we recommend! EP 0 is a low viscosity grease for machinery with rapid moving parts that produce friction. If you use a different type of grease, you will inhibit the performance of your driver and possibly cause damage to your driver or your engine. If you have greased your driver with the wrong grease, you will need to follow the instructions in the maintenance section for replacing grease in the crank housing area.
- Check the amount of grease in the crank case. If you driver is over-greased it will cause a reduced performance of the machine and put undue stress on the engine and the operations of the gears/piston in the machine. There should be 100mL of grease visible in the crank housing with room for freedom of movement for the parts.
- If the Driver is low on grease it will cause a reduced performance of the machine. Open the crank housing cover to visually check the amount of grease in your driver. You should always see a bit of grease residue moving throughout the machine. You may even see grease left on the posts, this is a good thing; it means your machine is self-lubricating.
- If you feel that the striker or hammer of the machine is not moving as freely as it should, you can spray WD-40 up into the barrel to lubricate and cleanse this area. Occasionally you will get bits of debris which chip off the posts and then make their way up into the striker area.
- If a driven post flares and becomes lodged within the barrel, follow these steps:

STEP 1 Remove the six lower body bolts to separate the lower driver body from the upper driver body.

STEP 2 Slide the lower driver body down the post to expose the flared top of the post. With a proper cutting tool for the type of post, cut the post off just below the flared top.

STEP 3 Once the flared top is removed, slide the lower driver body off the post and re-assemble it to the upper driver body. Follow the bolt tightening and Loctite guidelines explained in the “servicing” section.

11 WARRANTY

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Where a failure does not amount to a major failure, Crommelins Machinery is entitled to choose between providing you with a repair, replacement or refund. To obtain compensation, you would need to provide documentary evidence of the loss or damage suffered, and documentary evidence that such loss or damage was a reasonably foreseeable consequence of a failure by Crommelins Machinery to comply with a consumer guarantee under the Australian Consumer Law.

Crommelins Operations Pty Ltd trading as Crommelins Machinery, The Crommelin Group and Crommelins Australia.

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