

# MAINTENANCE GUIDE

For engine maintenance please refer to engine manufacturers manual.

After every hour of operation:

Stop engine. Remove the spark plug cap

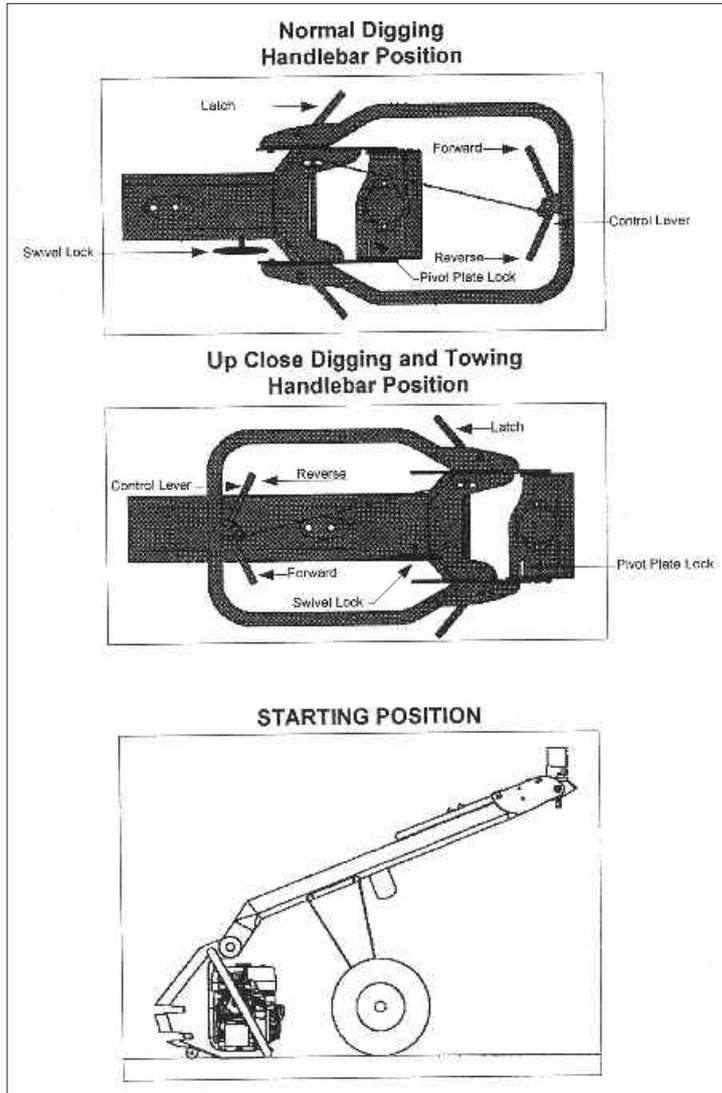
Check engine oil level. (Recommended oil SAE 10w/40).

Do not turn the machine on its side for cleaning.

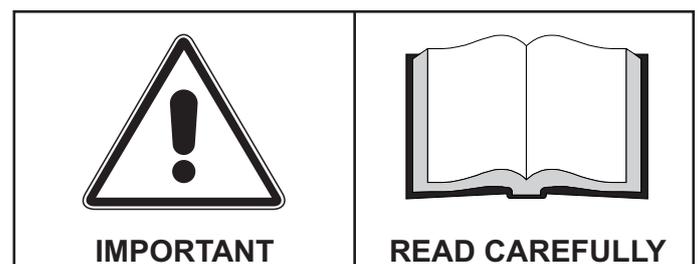
Refit the spark plug cap.

## OPERATING INSTRUCTIONS & SAFETY NOTES

# CAMON HYDRAULIC HOLE BORER HD99



VIBRATION & SOUND LEVELS			
Machine	RPM	Vibration m/sec <sup>2</sup> 3 Axis	Sound Level dB(A)
HD99 Hole Borer	3600	4.3	85.0



**WEAR EAR  
PROTECTION**



**WEAR EYE  
PROTECTION**



**WEAR SAFETY  
FOOTWEAR**

## SAFETY

- ALWAYS** start the engine in the open air
- DO NOT** smoke when refuelling
- DO NOT** mix OIL with the fuel
- NEVER** try to start the engine unless the unit is in the starting position
- ALWAYS** stop the engine before making any adjustments, refuelling, moving or cleaning, or when the unit is unattended
- USE ONLY** unleaded petrol from fuel containers designed for this purpose - refuel outdoors only and replace the tank cap securely
- IN CASE** of petrol spillage move the machines away from the area of spillage and allow the petrol vapours to dissipate before starting the engine
- DO NOT** remove any safety guards that are fitted
- DO NOT** touch any moving parts or attempt any maintenance whilst the machine is running - **KEEP HANDS AND FEET AWAY**
- BEFORE** starting work clear the work area of any objects that could damage the machine and be sure that the area you are going to drill is clear of potential hazards
- NEVER** ALLOW bystanders near the hole or the machine while it is in use
- DO NOT** allow children or anyone uninstructed to operate the machine - **KEEP ANIMALS AWAY**
- DO NOT** use on slopes or banks of more than 20°
- ALWAYS** wear suitable clothing to give personal protection including footwear that offers a good grip
- AVOID** wearing loose garments that may catch in moving parts
- KNOW** how to stop the machine in an emergency
- NEVER** interfere with any control settings on the engine
- IF A FAULT** develops **DO NOT** attempt any repair - immediately contact the supplier from whom the machine was obtained
- VISUALLY** INSPECT the machine before use - ensure all nuts and bolts are tight
- KEEP IN MIND** the operator is responsible for accidents or hazards occurring to people or property
- ALWAYS** know the location of buried utility lines, the utility companies will locate and mark lines for you - a cut electrical cable or gas line can result in serious injury or fatality
- WEAR** eye and ear protection and protective footwear

## TO START ENGINE

- Using the dipstick provided, check the engine oil level. Top up with 10w/40 oil if necessary (if the dipstick is clear of oil).
- Check fuel level. Only use unleaded petrol from a clean container. Never re-fuel when the engine is hot or running. Leave 1" air space in the fuel tank.
- Switch ignition to 'ON' position.
- Turn the fuel tap to 'ON' position, if the engine is cold set the choke lever to 'ON' position.
- Pull the recoil start handle gently until it engages then give it a good strong pull to start the engine.
- When the engine has started, release the choke lever after a few seconds and return the throttle lever to idle position.
- Before attaching the auger, always start the hole borer at the job site and allow it to warm up. While the machine is running, check the controls to be sure that everything is working properly.
- NOTE:** If the machine is not working properly, take the necessary steps to have it put in working order before putting it to use.
- CAUTION:** Never connect or disconnect the auger while the engine is running.
- After the engine has been allowed to warm up, and everything is operating as it should, shut the motor off and attach the auger using the clevis pin and clip provided.
- Place the machine in the drilling position.
- Follow the procedures to start the engine. If the engine does not start after 3 pulls of the recoil starter, disconnect the auger from the machine and determine the cause.
- When the machine is in operating condition again, follow the procedures listed above before proceeding to the next step.
- Set the engine to maximum throttle.
- NOTE:** Do not start the engine with the auger in a hole.

## TO STOP ENGINE

- All units are equipped with an engine mounted switch and a remote switch at the pivot plate.
- NOTE:** In an emergency situation, any of the switches can be used to stop the engine. In the event any one of the switches are used to stop the engine, **DO NOT** turn the switch to the 'ON' position until the engine has come to a complete stop.
- Alternatively, switch the ignition to 'OFF' position.
- Turn the fuel tap to 'OFF' position.
- WARNING:** **THE EXHAUST COVER MAY BE HOT - DO NOT TOUCH**

## OPERATING HINTS

- Depress latch levers and rotate the handlebars to the normal digging position if it is not already.
- Slowly depress the control lever forward. Use caution here as the auger will start to turn and dig at this point.
- NOTE:** This unit has a throttling feature. The more you depress the control lever, the faster the auger will turn.
- Allow the auger to drill at its own speed, keeping the auger straight in the hole by moving the machine back and forth as needed.
- Increase or decrease the auger speed until you find a drilling speed that you are comfortable with.
- WARNING:** Hitting a buried object, such as a rock, could cause a sudden side thrust against the operator. Injury could occur if the operator is not prepared to deal with this condition.
- Do not attempt to drill the hole in one pass; you could bury the auger. Drill to a depth of approximately one foot, and lift the auger to spin the dirt off. Be careful not to lift the auger completely out of the hole. Repeat this procedure until you have reached the required depth.
- Release the control lever and lift the rest of the dirt out for a clean hole.
- To reverse the rotation of the auger, depress the control lever slowly. Use caution at this point, the auger will tend to climb out of the hole.
- For up close digging, rotate the handlebars to the up close digging position and follow the instructions above.
- NOTE:** Allow the auger to drill at its own speed. Attempting to force the auger into hard ground and through buried objects could result in the object being locked in the hole. If the auger bit should get locked in a hole, slowly engage the valve control lever in reverse to unlock the auger bit.
- For drilling on uneven terrain, rotate the handlebars to the desired angle. Some digging conditions may or may not require you to tighten the swivel lock.

## USING EXTENSIONS

- It is not recommended to drill with extensions more than three feet long.
- Following the previous instructions, drill to the full depth of the auger.
- Stop the engine. Remove the auger from the power unit and connect the extension shaft to the auger using the pins provided.
- Connect the power unit to the extension shaft. Following the previous instructions, drill to the depth, adding extensions as necessary.
- To remove the auger with extension attached, stop the engine and lift the power unit up far enough to expose the first connection.
- Support the extension shaft below the connection to prevent it from falling back into the hole.
- Remove the connecting pin and set the power unit and extension shaft aside.
- Repeat the procedure until the auger and extensions are removed from the hole.