

with PowerSafe® Clutch



Operating Instructions

Before commissioning the machine, read operating instructions and observe warning and safety instructions.



Contents

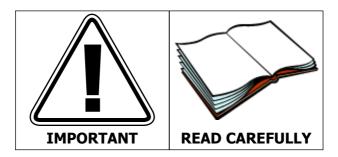
- Page 3 Safety
- Page 4 Controls Diagram & Description
- Page 5 Assembly Instructions
- Page 6 How to Start Petrol Engine
 - Operation
 - How to Stop Engine
- Page 7 Operating Hints

Maintenance Guide

- Page 8 Service Information
- Page 9 Maintenance Programme
- Page 10 Troubleshooting Guide
- Page 11 Risk Assessment
- Page 12 Machine Overview Diagram

Vibration & Sound Levels

Page 13 Service Record

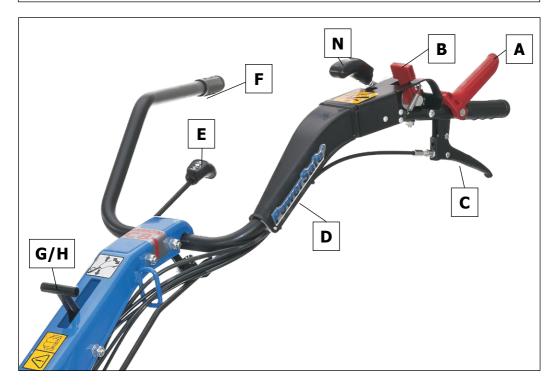


No liability will be accepted for any damage caused to persons or property through failure to observe the operating and safety instructions.

Safety

- ALWAYS start the engine in the open air
- DO NOT smoke when refuelling
- DO NOT mix OIL with the fuel
- ALWAYS stop the engine before making any adjustments, refuelling, moving or cleaning, or when the unit is unattended
- USE ONLY fuel from containers designed for this purpose refuel outdoors only and replace the tank cap securely
- IN CASE of petrol spillage move the machine 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
- DO NOT allow children or anyone uninstructed to operate the machine KEEP ANIMALS AWAY
- DO NOT use on slopes or banks of more than 20o
- 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
- NEVER select reverse gear with your back to a wall or other immovable object
- 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 tines, nuts and bolts are tight and not worn or damaged and replace tines if necessary
- KEEP IN MIND the operator is responsible for accidents or hazards occurring to people or property

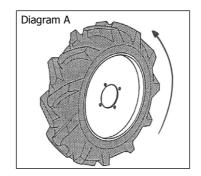
Controls

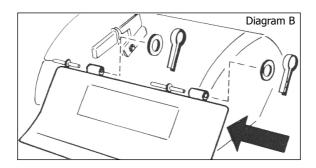


- (A) MACHINE STOP LEVER (red lever that stops the machine when released)
- (B) ENGINE STOP LEVER
- (C) CLUTCH CONTROL LEVER
- (D) GEAR LEVER (the location of different gears are shown on the selector)
- (E) PTO LEVER (there is a safety device that prevents engagement with reverse gear)
- (F) THROTTLE LEVER
- (G) HANDLEBAR HEIGHT ADJUSTMENT LEVER
- (H) STEERING COLUMN SWIVEL LEVER
- (N) PARKING BRAKE LEVER

Assembly Instructions

- 1. Remove the machine from its packing case.
- Rotate the handlebar stem to the operating position and fit the handlebars check operation and routing of cables.
- 3. Fit the wheels, ensuring the correct rotation (see diagram A below) and check the tyre pressures (20psi).
- 4. Fit the gearbox dipstick.
- 5. Assemble the rear flap on the digging unit ensuring the sticker labels are on the outside (see diagram B below) and attach the unit to the machine.
- 6. Check the engine oil level.
- 7. Follow the instructions in this Owner's Manual to run the machine.





To Start Engine

Using the dipstick provided, check the engine oil level. Top up with 10w/40 oil if necessary.

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.

Turn the fuel tap to 'ON' position, if the engine is cold set the choke lever to 'ON' position.

Before starting the engine ensure the gear lever (D) is in neutral position and the power take-off (PTO) lever is disengaged (E).

Apply half throttle (F).

Move the engine stop lever (B) to position 1 'ON'.

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 (F) to idle position.

Operation

Use handlebar adjuster (G) to set handlebar height.

Hold the handlebar and pull up the clutch lever (C).

Depress the red stop lever (A) and select working speed 1 (D). NEVER select a higher wheel speed for work.

Ensure forward/reverse lever is in forward position (L).

Engage drive to the digging knives by pushing the PTO lever (E) forward.

Release clutch lever (C) slowly and fully, keeping the red machine stop lever depressed as the machine will stop if released.

Commence work.

To Stop Engine

Close the throttle (F).

Engage clutch lever (C).

Locate gear lever (D) in neutral position.

Disengage drive to the digging knives by pulling the PTO lever (E) backwards.

Release clutch lever (C).

Release the machine stop lever (A) completely.

Move the engine stop lever (B) to position O 'STOP'.

WARNING: THE EXHAUST COVER MAY BE HOT - DO NOT TOUCH.

Operating Hints

LET THE MACHINE DO THE WORK.

Excessive downward pressure on the handlebars may cause the machine to jump. Apply gentle pressure and the machine will find its own digging depth according to the type of ground. If the ground is hard, position the depth adjuster centre knife on the top hole and make several passes until the desired depth is achieved.

If the speed or digging knives lever does not engage immediately, release clutch lever slightly and 'feel in' with the engine on tick-over.

Always pull in the clutch lever before engaging any gear, digging unit or changing forward/ reverse.

The clutch lever must be fully released when working. Do not operate the machine with the clutch lever partially engaged as serious damage may occur.

DO NOT WORK ON SLOPES MORE THAN 20°

If working on a slope, work across the slope pointing the machine slightly uphill.

DO NOT ATTEMPT CULTIVATION ON:

(i) Frozen or waterlogged ground as this will destroy the soil structure resulting in poor future drainage.

(ii) Ground that is covered with thick foliage or high grass. Remove it by cutting down.

Maintenance Guide

For engine maintenance please refer to engine manufacturers manual.

After every hour of operation stop the engine and remove the spark plug cap. Check engine oil level (recommended oil SAE 10w/40).

Remove all foreign matter from the digging knives assembly e.g. wire, string, grass etc.

Replace the spark plug cap.

Do not turn the machine on its side for cleaning.

Before checking the oil level ensure the machine is level.

Remove the digging unit oil level plug and ensure the oil level is within $1\frac{1}{2}$ " of the hole, if necessary top up with EP90 gear oil.

Remove the gearbox unit dipstick and ensure the oil reaches the top level mark, if necessary top up with API GL-5 80w/90 gear oil (see page 8).

Replace the spark plug cap.

Do not turn the machine on its side for cleaning.

Service Information

Every Week

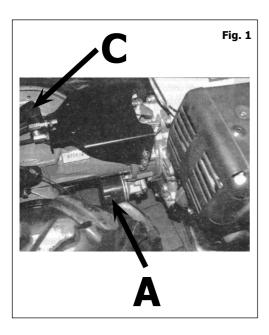
• With the machine on a level surface, check the gearbox oil level, top up as necessary using the correct oil as listed below. The gearbox oil level should reach between the two notches on the dipstick (*fig. 2, C*).

After the First 2 Weeks or 30 Hours of Work

- Replace the gearbox **oil filter <u>ONLY</u>**, (*fig. 1, A*), part number 58056249.
- Check the gearbox oil level using the dipstick (*figs. 1 & 2, C*), run the machine for 2-3 minutes and recheck gearbox oil level, top up as necessary using the correct oil as listed below.

Every 100 Hours of Work or 12 Months

- Change the gearbox oil by removing the gearbox drain plug (fig. 3, B).
- Replace the gearbox oil filter (fig. 1, A), part number 58056249.
- Clean the gearbox drain plug and refit.
- Fill gearbox using the correct oil and quantity as listed below.
- Check the gearbox oil level, run the machine for 2-3 minutes and recheck gearbox oil level.



To replace the oil filter (fig. 1, A)

- 1. Using the correct spanner, remove the filter.
- 2. Smear a film of oil on the rubber gasket of the new filter.
- 3. Mount the new filter, screwing and tightening by hand only.

Service Information

Gearbox Oil Quantities

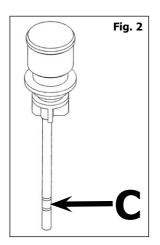
CAMON C8 = approx 2.3 litres

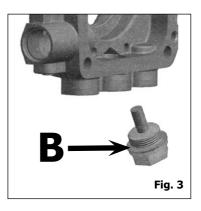
Oil Type

Fuchs	Titan Hyp 90
Valvoline	80w-90 GL-5
Morris	EP80w/90 API GL5
Castrol	EPX 80w-90
Motorex	Hypoid SAE 80w/90 API GL5
Millers	Hypoid 80w90 GL5
Comma	EP80w-90 GL5
Agip	Rotra MP 80w-90
Rock Oil	SD API GL5 80w/90

Alternatively any oil meeting API GL-5 80w/90 specification may be used.

Multigrade engine oil must **NOT** be used.





Maintenance Programme

	OPERATION	EVERY DAY	EVERY WEEK	EVERY MONTH	EVERY 6 MONTHS
ENGINE	Check engine oil level 10w/40 See separate engine manual	х	x		
GEARBOX	Check gearbox oil level (see page 8)	Х	Х		
&	Check nuts & bolts	Х	Х		
CONTROLS	Ensure clutch cable has free play		Х		
	Check tyre pressure (20psi)		Х	Х	
	Lubricate control cable/linkages		Х		
	Check control cable operation		Х		
	Check operation of safety devices		Х		
	Change gearbox oil (see page 8)				Х
	Grease gear speed detent ball		Х	Х	
DIGGING	Check condition of centre knife		Х		
UNIT	Tighten nuts & bolts on knives	Х	Х		
	Check nuts & studs on side flange	Х	Х		
	Check drive unit oil level EP90		Х	Х	

NOTES:

* Pressure washing machines remove lubricating grease as well as dirt. It is imperative all linkages, especially the gear speed lever detent ball, are kept well greased otherwise they will become difficult to operate and cause damage.

* DO NOT allow maximum engine speed to exceed 3600rpm.

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	REMEDY
Unable to select gear	Pressure washing has removed lubrication of gear lever detent ball.	Grease the detent ball and quadrant.
Unable to pull engine over	Machine has been tipped on side for cleaning and engine oil has filled the cylinder bore causing a hydraulic lock.	Remove spark plug and air filter. Stand to one side and pull over engine to clean out oil. Change engine oil and air filter. Clean spark plug.
Machine suddenly leaps forward whilst cultivating	New set of tines has been fitted the wrong way round.	Check fitting and refit if necessary.
	Centre knife is worn out or missing.	Check centre knife and replace if necessary.
	Centre knife lifted too high on hard ground.	Lower centre knife.
No drive to wheels or digging unit	Check gearbox oil level.	Top up if necessary with API GL-5 80w/90 oil (see page 8).
Engine smokes	There may be petrol in the engine oil due to fuel tap being left on during transportation.	Change engine oil.
	Contaminated air filter.	Replace element.

NOTES:

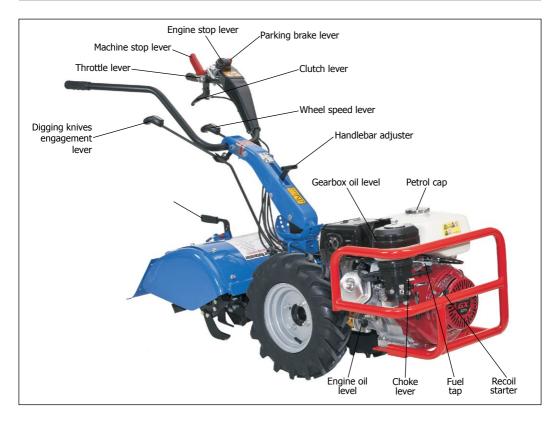
* Pressure washing machines remove lubricating grease as well as dirt. It is imperative all linkages, especially the gear speed lever detent ball, are kept well greased otherwise they will become difficult to operate and cause damage.

* DO NOT allow maximum engine speed to exceed 3600rpm.

Risk Assessment

HAZARDS	RISK LEVEL	ACTION NEEDED
General		The machine should only be used by trained operators.
Machine tipping over	Low	Do not use on slopes over 25°.
Machine jumping	High	Ensure the centre knife is in good condition and adjusted to suit the ground conditions. Use the depth adjuster located on top of the rotavator to adjust the centre knife
Machine running away	Low	Red stop lever disengages the drive to the implement if the operator releases the handlebars. Always check operation before use.
Lacerations	Medium	Remove the spark plug cap before carrying out any maintenance or cleaning. Always wear gloves when cleaning the tines or removing debris.
Machine reversing and jamming operator against immovable object	High	Never reverse the machine with your back to a wall or similar object.
Burns	High	Be very careful or a hot exhaust. Turn off the machine before refuelling. Allow 1" air space in the fuel tank.
Flying objects	Low	Ensure the back flap moves easily and follows the contour of the ground to prevent small stones being thrown back. Always wear suitable safety footwear.
Handlebar adjustment	Low	Always set the height and sideways position before operating the machine - never while it is moving.
Foot injuries	Medium	The machine has a safety device to prevent the reverse speed and tine drive being engaged simultaneously. Ensure all safety devices are in place before using the machine. Always wear suitable safety footwear.

Machine Overview Diagram



Vibration & Sound Levels

MACHINE	RPM	VIBRATION M/SEC ² 3 AXIS	SOUND LEVEL dB(A)
CAMON C8 Rotavator	3100	2.9	85.0

Service Record

To ensure your machine is kept in peak condition, we recommend that you have it serviced regularly by one of Tracmaster's Authorised Agents.

To find out who your local Authorised Agent is, contact Tracmaster on 01444 247689.

SERVICE SCHEDULE First 2 Weeks or 30 Hours of Work (see page 8) First PowerSafe® oil filter replacement (part number 58056249) Check and/or restore gearbox oil level (API GL-5 80w90 specification) Signed: Date:

Every 12 Mo	nths or 100 Hours (see page 8)		
Implement tra	insmission oil replacement (API GL-5	80w90 spec	ification)
Engine oil repl	lacement (SAE 15w/40)		
Signed:	I	Date:	

200 Hours	300 Hours
Signed:	Signed:
Date:	Date:
400 Hours	500 Hours
Signed:	Signed:
Date:	Date:
600 Hours	700 Hours
Signed:	Signed:
Date:	Datas
Date.	Date:
800 Hours	900 Hours



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