



BCS POWERSAFE® TWO-WHEEL TRACTORS

Models 710 • 720 • 730 • 740

Power Unit

Operating Instructions

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

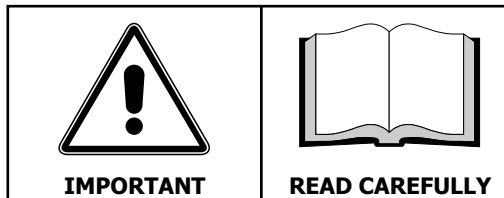


TRACMASTER

Landscape • Groundcare • Conservation

Contents

Page 1	Safety
Page 2	Controls Diagrams - 710 & 720
Page 3	Controls Diagrams - 730 & 740
Page 4	Controls Description
Page 5	Assembly Instructions
Page 6	How to Start Petrol Engine How to Start Diesel Engine
Page 7	Operation How to Stop Engine
Page 8	Maintenance Guide Maintenance Programme
Page 9	Service Information
Page 10	Troubleshooting Guide
Page 11	Risk Assessment



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 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

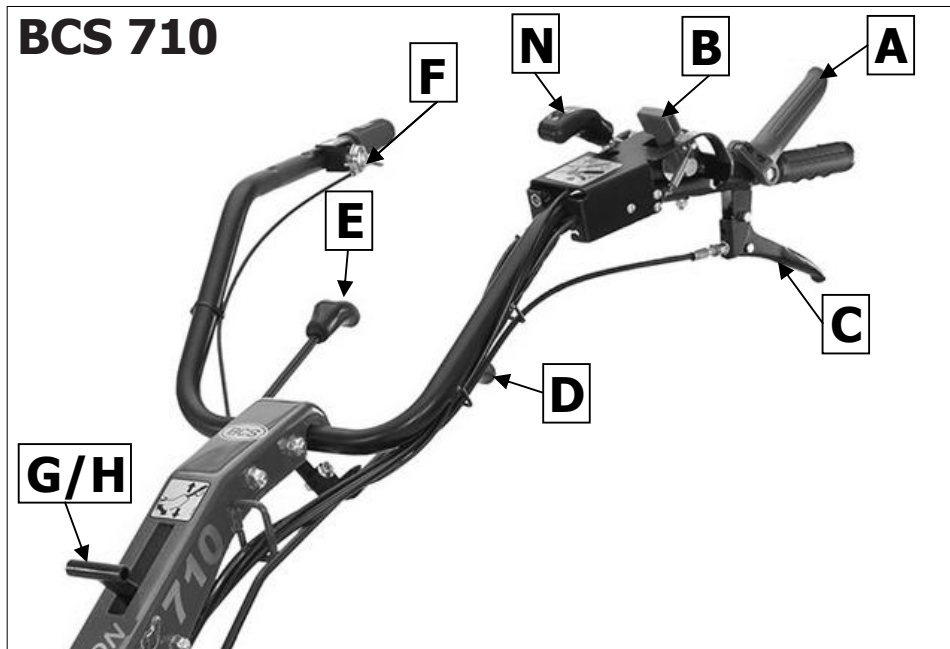
NEVER select reverse gear with your back to a wall or other immovable object

IF A FAULT develops **DO NOT** attempt any repair - immediately contact the supplier from whom the machine was obtained

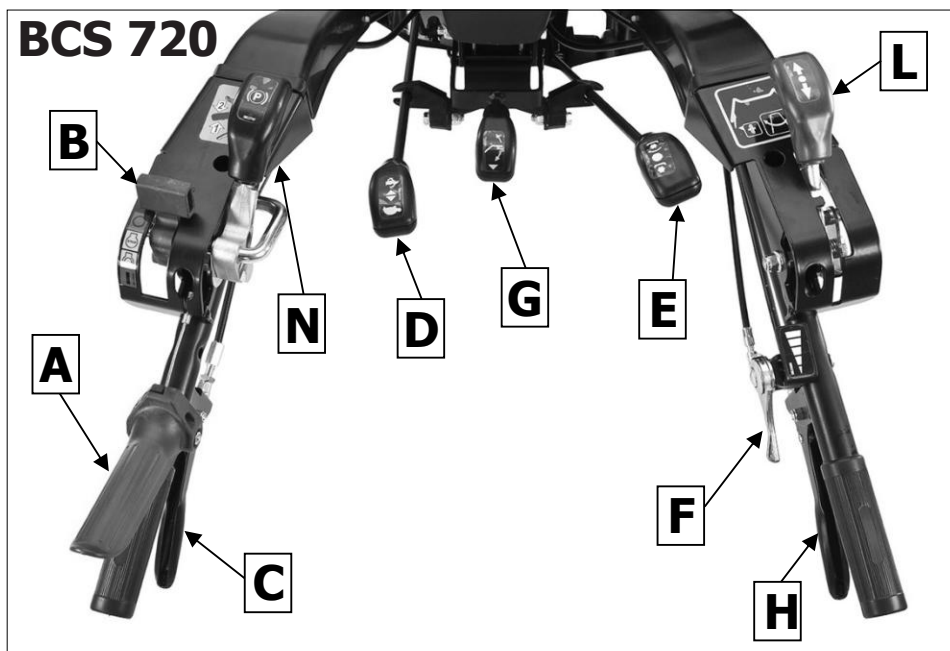
VISUALLY INSPECT the machine before use - ensure all blades, nuts and bolts are tight and not worn or damaged and replace if necessary

KEEP IN MIND the operator is responsible for accidents or hazards occurring to people or property

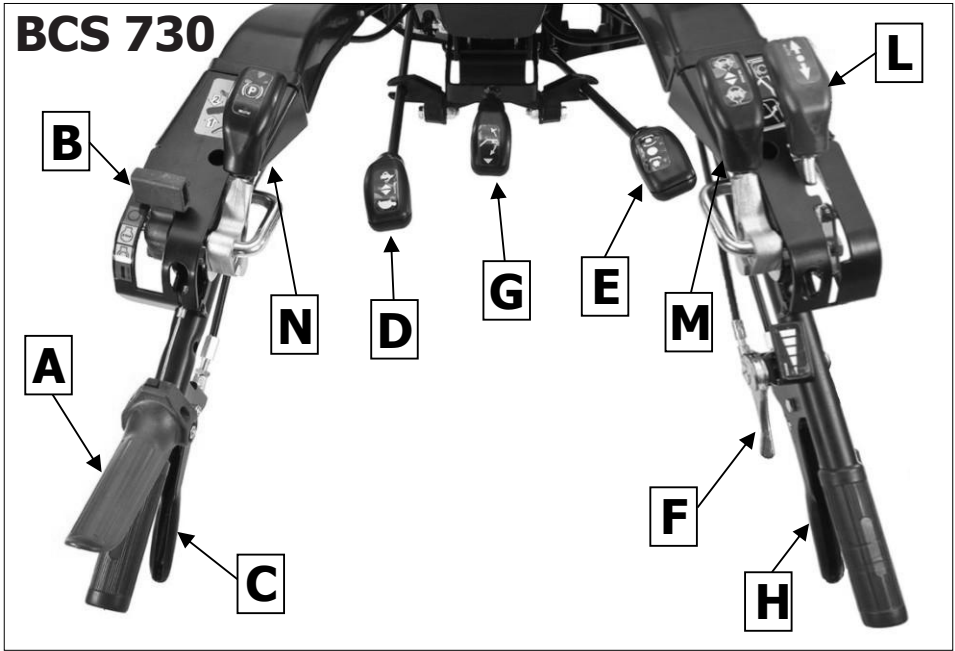
BCS 710



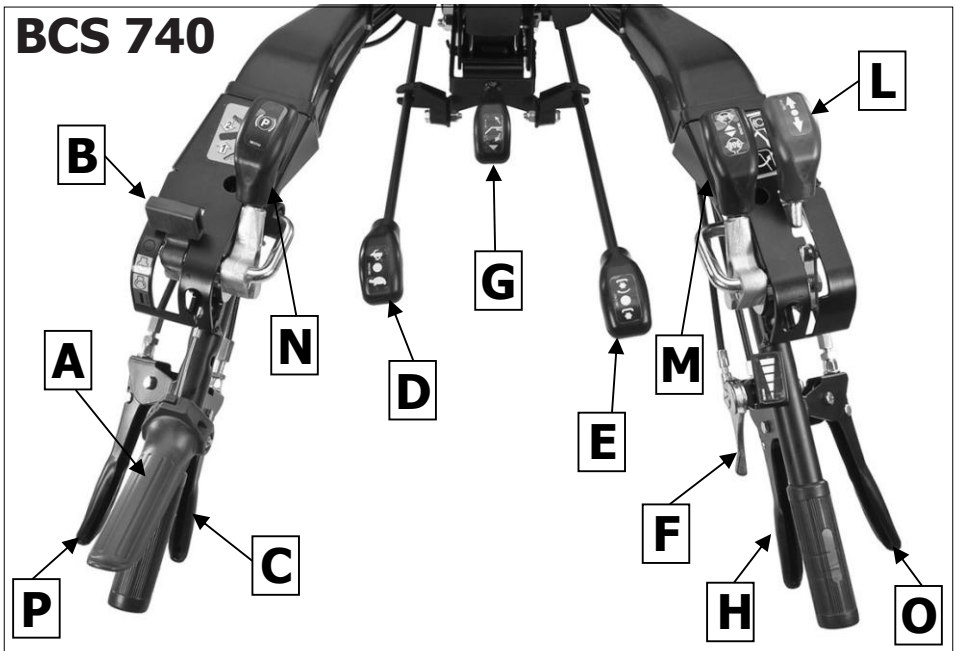
BCS 720



BCS 730



BCS 740



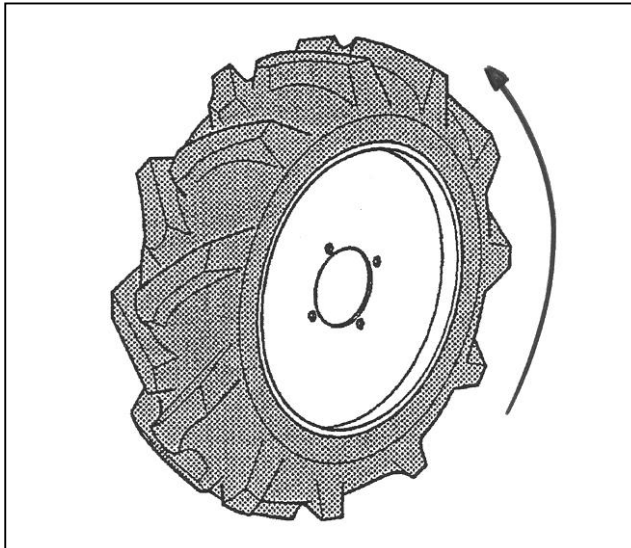
Controls Description

SEE PICTURES ON PAGES 2 & 3

- (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
- (L) FORWARD/REVERSE LEVER (always engage the clutch before engaging this lever)
- (M) DIFFERENTIAL LOCK LEVER
- (N) PARKING BRAKE LEVER
- (O) RIGHT BRAKE LEVER
- (P) LEFT BRAKE LEVER

Assembly Instructions

1. Remove the machine from its packing case.
2. 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 below) and check the tyre pressures (20psi).
4. Fit the gearbox dipstick.
5. Assemble the working implement, if necessary, following the relevant implement's Owner's Manual.
6. Check the engine oil level.
7. Follow the instructions in the Owner's Manual to run the machine.



To Start Petrol 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, if the choke lever is 'ON', turn it off after a few seconds and return the throttle lever (F) to idle position.

To Start Diesel Engine

730D & 740D only

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

Check fuel level. Only use diesel from a clean container. Never re-fuel when the engine is hot or running.

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

Apply $\frac{3}{4}$ throttle (F).

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

Press and hold the decompression lever on top of the engine.

Pull recoil start handle gently until it engages then, keeping the decompression lever depressed, slowly pull the engine over 2-3 times to prime the engine.

Release the decompression lever and gently pull over the engine until compression is felt.

Press, but do not hold, the decompression lever and give the starter handle a good strong pull to start the engine.

Once the engine has started 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 the correct working speed using the gear lever (D).

Ensure forward/reverse lever is in the correct position to move forward (L):

If the handlebars are positioned over the engine then this lever should be in the fully back position.

If the handlebars are positioned over the implement then it should be in the fully forward position.

Engage drive to the working implement by using the PTO lever (E):

If the handlebars are positioned over the engine then pull the PTO lever (E) towards you.

If the handlebars are positioned over the implement then push the PTO lever (E) away from you.

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

Move the throttle lever to the correct position for the implement you are operating - please refer to the Implement Manual.

Commence work.

To Stop Engine

Close the throttle (F).

Engage clutch lever (C).

Locate gear lever (D) in neutral position.

Disengage drive to the working implement:

If the handlebars are positioned over the engine then push the PTO lever (E) away from you.

If the handlebars are positioned over the implement then pull the PTO lever (E) towards you.

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.

Maintenance Guide

For engine maintenance please refer to engine manufacturers manual.

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

Before checking the oil level ensure the machine is level.

Remove the gearbox unit dipstick and ensure the oil reaches the top level mark, if necessary top up with API GL-4 80w gear oil (see page 9).

Replace the spark plug cap.

Do not turn the machine on its side for cleaning.

Maintenance Programme

	OPERATION	EVERY DAY	EVERY WEEK	EVERY MONTH	EVERY 6 MONTHS
ENGINE	Check engine oil level 10W/40 See separate engine manual	X	X		
GEARBOX & CONTROLS	Check gearbox oil level (see page 9)	X	X		
	Check nuts & bolts	X	X		
	Ensure clutch cable has free play		X		
	Check tyre pressure (20psi)		X	X	
	Lubricate control cable/linkages		X		
	Check control cable operation		X		
	Check operation of safety devices		X		
	Change gearbox oil (see page 9)				X
	Grease gear speed detent ball		X	X	

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.

Service Information

Every Week

Check the gearbox oil level, top up as necessary using the correct oil as listed below.

After the First 2 Weeks or 30 Hours of Work

Replace the gearbox oil filter, part number 58056249.

Check the gearbox oil level, run the machine for 2-3 minutes and recheck gearbox oil level, top up as necessary using the correct oil as listed below.

Every 6 Months or 130 Hours of Work

Change the gearbox oil by removing the gearbox drain plug.

Replace the gearbox oil filter, 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.

Gearbox Oil Quantities

BCS 710 / 720 / 730 = 2.3 litres

BCS 740 = 2.6 litres

Oil Type

Agip	Rotra JD/F
Carlube	EP80w Hypoid Gear Oil
Castrol	MTX Part Synthetic Oil
Fuchs	Agrifarm UTTO LN
Kubota	UDT Fluid
Mobil	Mobilfluid 424
Morris	Super Versitrac 10w-40, Liquimatic JDF
Q8	T1000 SAE 10w-40
Rock Oil	U.T.T.O
Shell	Donax TD

Alternatively any oil meeting API GL-4 80w specification may be used.

API GL-5 specification oils must **NOT** be used.

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

Multigrade EP gearbox oils must **NOT** used.

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.
No drive to wheels or working implement	Check gearbox oil level.	Top up if necessary with API GL-4 80w oil (see page 9).
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 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 working implement 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 of a hot exhaust. Turn off the machine before refuelling. Allow 1" air space in the fuel tank.
Handlebar adjustment	Low	Always set the height and sideways position before operating the machine - never while it is moving.



IMPORTANT

**NOW READ THE OWNER'S MANUAL FOR
THE RELEVANT WORKING IMPLEMENT.**

**PLEASE CONTACT TRACMASTER ON
01444 247689 FOR ANY FURTHER
INFORMATION OR ASSISTANCE OR
VISIT WWW.TRACMASTER.CO.UK**

Warranty Registration

To validate your warranty please complete the form below and return it to:
Tracmaster Ltd, Sovereign Centre, Victoria Road, Burgess Hill, RH15 9LR
Alternatively visit www.tracmaster.co.uk and complete the online form.

CUSTOMER DETAILS

Name:

Company (if applicable):

Address:

.....

..... Postcode:

Email:

Phone:

MACHINE DETAILS

Machine: BCS Two Wheel Tractor

Model Number:

Serial Number:

Engine Serial Number:

Purchase Date:

SUPPLIER DETAILS (if not supplied directly by Tracmaster)

Dealer Name:

Dealer Address:

.....

..... Postcode:

We will never pass your details to any third party, however, we may occasionally send you emails with offers and promotions, if you do not want us to do this please tick this box.

© Tracmaster Ltd 2011.
Specifications are subject to change without prior notice.



Tracmaster Ltd, Sovereign Centre, Victoria Road, Burgess Hill RH15 9LR

T: +44 (0) 1444 247689 F: +44 (0) 1444 871612

W: www.tracmaster.co.uk E: info@tracmaster.co.uk