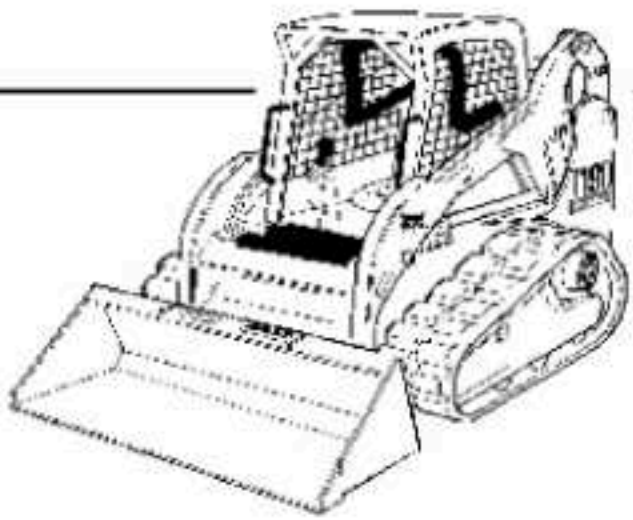
EN

T190

Bobcat®

Operation & Maintenance Manual

S/N 531711001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

6904144-EN (09-06)

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Loader in the spaces below. Always use these numbers when referring to your Bobcat Loader.

Loader Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

CE

Bobcat Europe
Drève Richelle 167
B-1410 WATERLOO
Belgium

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FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat Loader. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR LOADER. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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HYDRAULIC CONTROLS

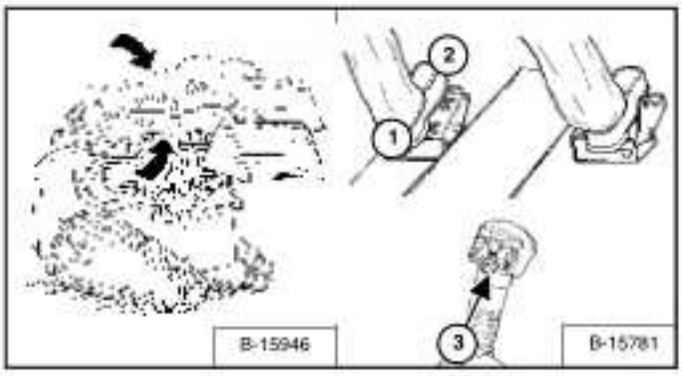
Description

Two foot pedals (or optional hand controls) control the hydraulic cylinders for the lift and tilt functions.

Put your feet on the pedals (or footrests) and KEEP THEM THERE any time you operate the loader.

Standard Controls (Also ACS In FOOT Pedal Mode)

Figure 30



Lift Arm Operation - (Left Pedal)

Push the heel (1) **[Figure 30]** of the pedal to raise the lift arms.

Push the toe (2) **[Figure 30]** of the pedal to lower the lift arms.

Lift Arm Float Position Operation - (Left Pedal)

Push the toe (2) **[Figure 30]** of the pedal all the way forward until it locks into the float position.

Use the float position of the lift arms to level loose material while driving backward.

Raise the lift arms to disengage the float position.

Lift Arm Float Position (With ACS) - (Left Pedal)

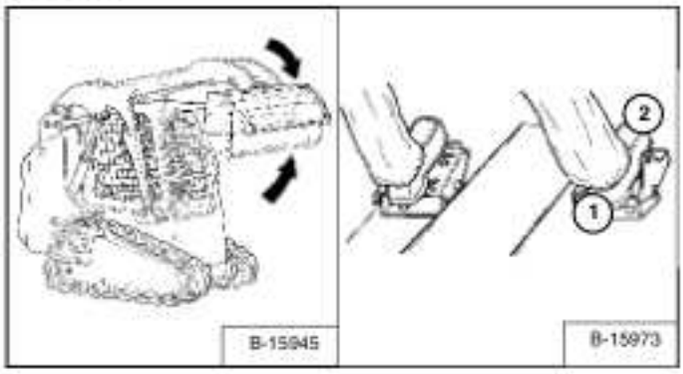
Press and hold the Float button (3) **[Figure 30]**.

Push the toe (2) **[Figure 30]** of the pedal forward to lower the lift arms. Then release the float button.

Use the float position of the lift arms to level loose material while driving backward.

Raise the lift arms to disengage the float position.

Figure 31



Tilt Operation - (Right Pedal)

Push the heel (1) **[Figure 31]** of the pedal to tilt the bucket backward.

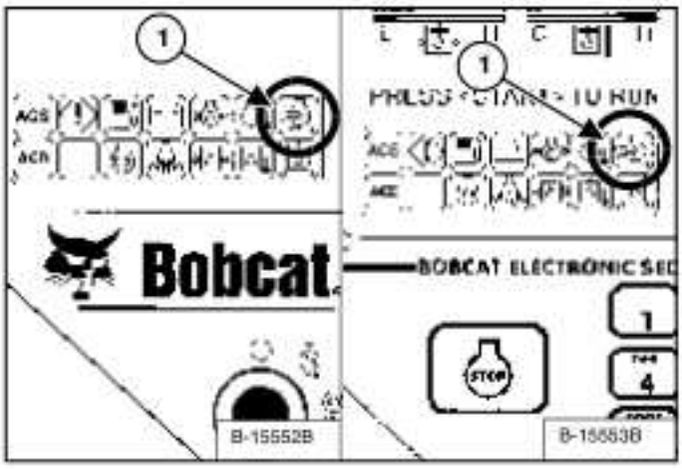
Push the toe (2) **[Figure 31]** of the pedal to tilt the bucket forward.

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AIR CLEANER SERVICE

Replacing Filter Elements

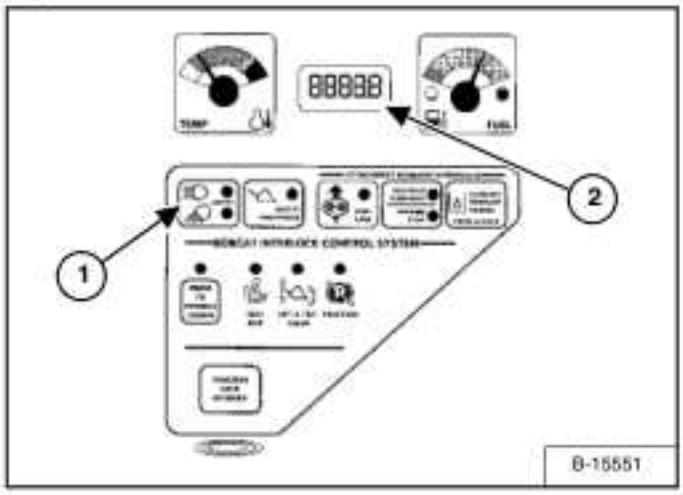
Figure 142



It is important to change the air filter element only when the Air Cleaner Icon in the right panel is ON (1) **[Figure 142]** and you hear three beeps from the alarm.

Replace the inner filter every third time the outer filter is replaced or as indicated.

Figure 143



Press and hold the LIGHT Button (1) **[Figure 143]** for two seconds.

If the filter element needs replacement, the CODE [**01-17**] **(Air Filter Plugged)** will show in the HOURMETER / CODE DISPLAY (2) **[Figure 143]**.

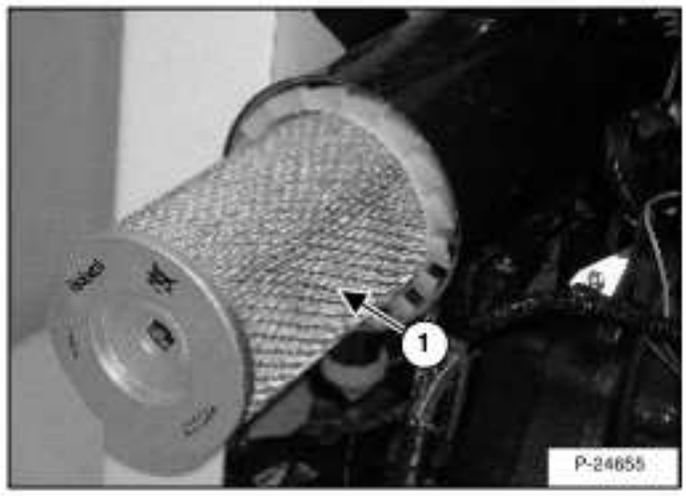
Outer Filter

Figure 144



Remove the wing nut and remove the dust cover **[Figure 144]**.

Figure 145



Remove the wing nut and remove the outer filter element (1) **[Figure 145]**.

NOTE: Make sure all sealing surfaces are free of dirt and debris. Do not use air pressure to clean.

Install new filter. Push all the way in until it contacts the base of the housing. Install wing nut.

Install the dust cover and the wing nut **[Figure 144]**.

Check the air intake hose and the air cleaner housing for damage. Make sure all connections are tight.

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LOADER SPECIFICATIONS (CONT'D)

Machine Rating

Lift breakout force	2090,7 daN
Tilt breakout force	1978,9 daN
Ground pressure	0,033784 MPa
Rated operating capacity (no more than 35% of Tipping Load)	1088 kg
Push force	20907 daN
Tipping load	3108 kg

Function Time

Raise lift arms	3,7 s
Lower lift arms	2,4 s
Bucket rollback	1,9 s
Bucket dump	2,4 s

Weights

Operating weight, T190	3453 kg
Operating weight, T190H	3473 kg
Shipping weight	3081 kg

Engine

Make / Model	Kubota / V2403M-DI-TE2B-BC-I
Fuel	Diesel
Cooling	Liquid
Maximum power at 1475 RPM (EEC 80/1269, ISO 9249)	45,5 kW
Maximum governed speed	2900 RPM
Low idle speed	1075-1225 RPM
High idle speed	2760-2900 RPM
Torque at 1475 RPM (SAE JI 995 Gross)	234,9 Nm
Number of cylinders	4
Displacement	2433 cm^3
Bore	87 mm
Stroke	102 mm
Lubrication	Gear pump pressure
Crankcase ventilation	Open Breathing
Air filter	Dry replaceable cartridge with safety element
Ignition	Diesel-compression
Starting aid	Glow plugs

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