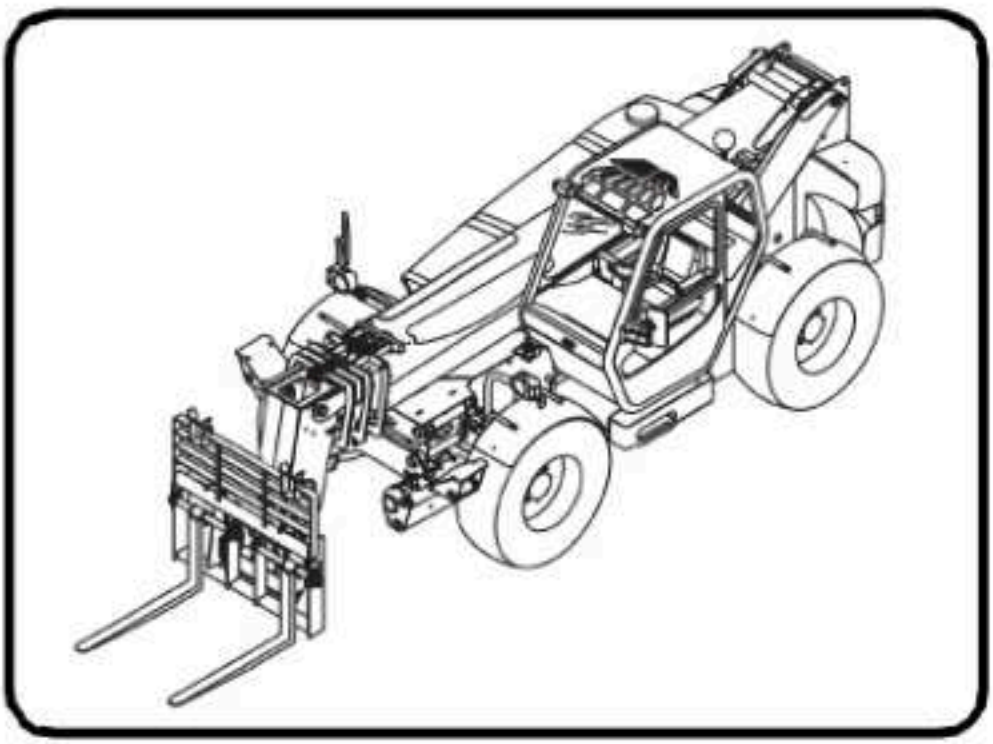
EN

Bobcat®

Operation & Maintenance Manual
T40140 Telescopic Handler

S/N A8GA13000 & Above



6989661-EN (02-10)

Printed in Belgium
Original Instructions

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REFERENCE INFORMATION

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

Telescopic Handler Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

CE

Doosan Benelux SA
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 & maintenance of the Bobcat telescopic handler. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT TELESCOPIC HANDLER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your telescopic handler.

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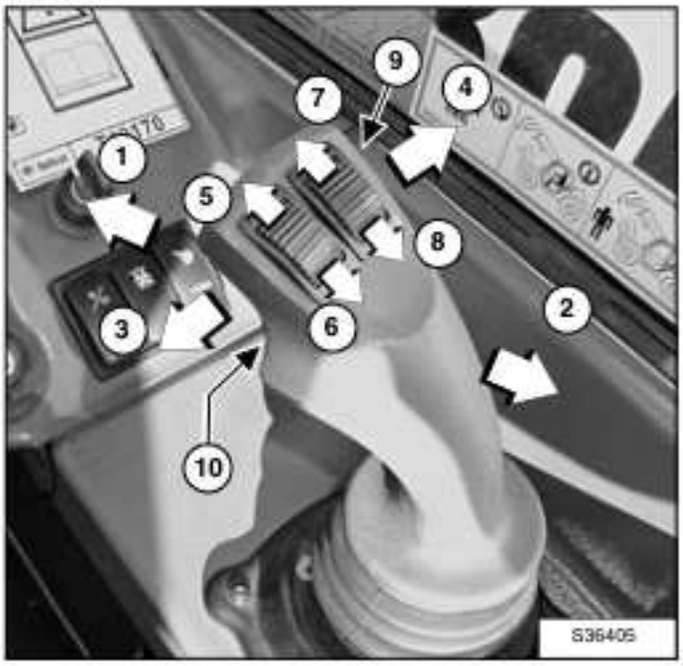
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HYDRAULIC CONTROLS

Hydraulic Control Lever (Joystick)

Figure 39



The Joystick controls the movement of the boom and attachment **[Figure 39]**.

1. Lower Boom
2. Raise Boom
3. Tilt Attachment Backward
4. Tilt Attachment Forward
5. Extend Telescopic Boom
6. Retract Telescopic Boom
7. Controls the function of the Front Auxiliary Hydraulics (Example: Close grapple teeth).
8. Controls the function of the Front Auxiliary Hydraulics (Example: Open grapple teeth).

The above Joystick functions (Items 1 thru 8) are proportional; The farther you move the control, the faster the hydraulic functions operate. Joystick functions (Item 7 and 8) are also used to operate the locking device for attachments. (See ATTACHMENTS on Page 66.)

9. Secondary Auxiliary Hydraulics (if equipped) - For momentary operation of the Secondary Auxiliary Hydraulics, press and hold button then turn thumbwheel (Items 7 and 8) to control an attachment function such as change the angle of the angle broom.

10. Detent Enable Button - This button must be pressed first before using the auxiliary switch button. This button prevents the auxiliary hydraulics from activating when starting the engine.

⚠ WARNING

AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

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⚠ WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

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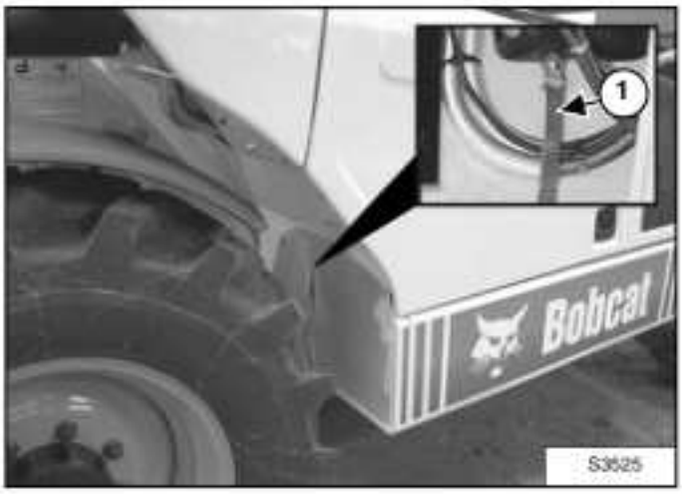
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Removing And Replacing Oil And Filter

See the SERVICE SCHEDULE for the service interval for replacing the engine oil and filter. (See SERVICE SCHEDULE on Page 87.)

Run the engine until it is at operating temperature. Stop the engine.

Figure 99



Remove the access panel at the rear of the engine compartment. Route the hose (Item 1) **[Figure 99]** out through the access hole. Remove the cap.

Drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Install cap and put the drain hose into the engine compartment, install the access cover.

⚠ WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

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Figure 100



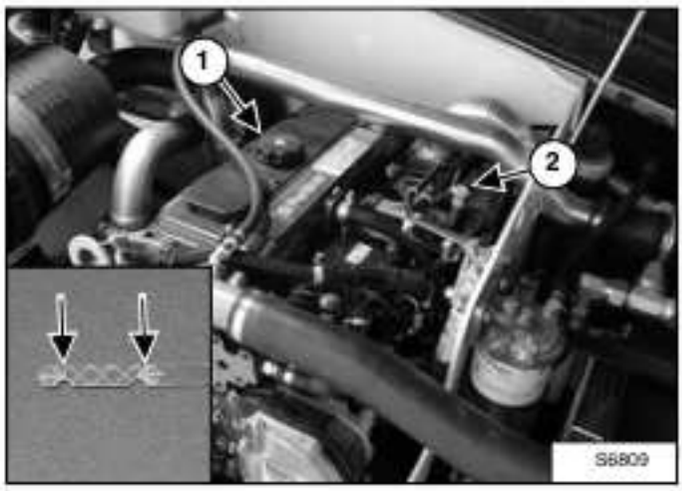
Open the engine cover. (See ENGINE COVER on Page 90.).

Remove the oil filter (Item 1) **[Figure 100]**.

Clean the filter housing surface.

Put clean oil on the new oil filter gasket. Install the filter and hand tighten.

Figure 101



Remove the filler cap (Item 1) **[Figure 101]**.

Put oil in the engine. For capacity, see "Fluid Capacities" on page 132. For type, "Lubricants, Fuel and Fluids" on page 9

Install fill cap, start the engine and let it run for several minutes.

Stop the engine, and check for leaks at the oil filter.

Remove the dipstick (Item 2) **[Figure 101]** and check the oil level. Add oil as needed if it is not at the top mark on the dipstick.

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(T40140) TELESCOPIC HANDLER SPECIFICATIONS (CONT'D)

Performance Specifications

Crowding force	11240.45 lbf. (5000 daN)
Drawbar pull	10790.83 lbf. (4800 daN)
Ground pressure on tyres	87.0 PSI (600 kPa)
Ground pressure on stabilisers	145.0 PSI (1000 kPa)
Rated operation capacity*	8818.5 lb. (4000 kg)
Capacity (at max. height on stabilisers)	8818.5 lb. (4000 kg)
Capacity (at max. height on tyres)	5511.6 lb. (2500 kg)
Capacity (at max. reach on stabilisers)	2866.0 lb. (1300 kg)
Capacity (at max. reach on tyres)	551.2 lb. (250 kg)
Push force	-
Tipping load	-
Lifting height - on stabilisers	535.8 in. (13610 mm)
Lifting height - on tyres	528.7 in. (13430 mm)
Max. reach on stabilisers	381.9 in. (9700 mm)
Max. reach on tyres	385.8 in. (9800 mm)
Banking corrector	4° / 4°
Sideshift (max.)	55.1 in. (1400 mm)

* Static and dynamic tests have been carried out and passed according to EN1459.

Weights

Weight (unladen)	22046.2 lb. (10000 kg)
Front axle weight unladen	8355.5 lb. (3790 kg)
Rear axle weight unladen	13690.7 lb. (6210 kg)
Total weight with pallet frame and forks	22751.7 lb. (10320 kg)
Front axle weight with pallet frame and forks	9634.2 lb. (4370 kg)
Rear axle weight with pallet frame and forks	13117.5 lb. (5950 kg)
Total weight with pallet frame, forks and 3500 kg load	31570.2 lb. (14320 kg)
Front axle weight with pallet frame, forks and 3500 kg load	26973.5 lb. (12235 kg)
Rear axle weight with pallet frame, forks and 3500 kg load	4596.6 lb. (2085 kg)

Engine

Make / Model	PERKINS / 1104D-44TA Turbo
Fuel	Diesel
Cooling	Liquid
Rated power (DIN 6271) at 2200 RPM	100 HP (74.5 kW)
Rated speed	2200 RPM
Maximum torque at 1400 RPM	302.4 ft.-lbf. (410 Nm)
Number of cylinders	4
Displacement	1.16 Gal. (4.4 L)
Bore	4.1 in. (105 mm)
Stroke	5 in. (127 mm)
Ignition	Diesel-compression

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No-Text Safety Signs (Cont'd)

3. Falling Off Attachment (79523.7)

The safety sign is located on the boom head.



⚠ WARNING

Do not use the forks as lift for personnel or work platform.
Do not transport passengers.
Danger of serious injury or death from falling.

---

4. Lowering Attachment or Load (79524.5)

The safety sign is located on the boom head.



⚠ WARNING

Danger of serious injury or death from dropping or lowering an attachment or load.
Keep bystanders away.

---

5. Welding (92941.4)

The safety sign is located on both sides of the back of the machine.



⚠ WARNING

Read instructions before welding.

(See Welding And Grinding on Page 20.)

6. Electrocution (79526.0)

The safety sign is located at the back of the engine compartment.



⚠ WARNING

Danger of electrocution or explosion of the battery.

(See Electrical on Page 19.)

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No-Text Safety Signs (Cont'd)

7. Engine Maintenance Hazards (92762.4)

The safety sign is located on the engine cover.



⚠ WARNING

Danger of cutting/crushing the hands during engine maintenance.
Danger of burning the hands during engine maintenance.
Danger of explosion of the coolant fluid tank.
First read the instructions and remove the key during engine maintenance.

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