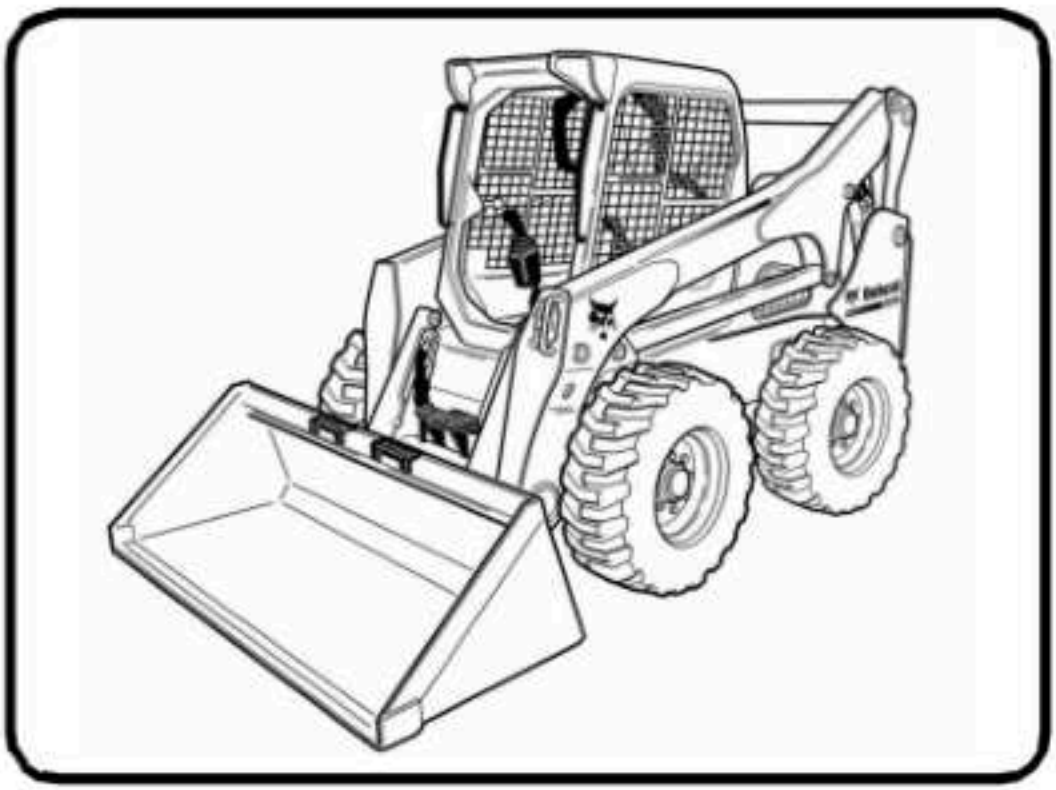
Bobcat®

Operation & Maintenance Manual
S770 Skid-Steer Loader

S/N A3P411001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6989467 (12-10)

Printed in U.S.A.

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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:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

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

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

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SERIAL NUMBER LOCATIONS 8
- Loader Serial Number 8
- Engine Serial Number 8

DELIVERY REPORT 8

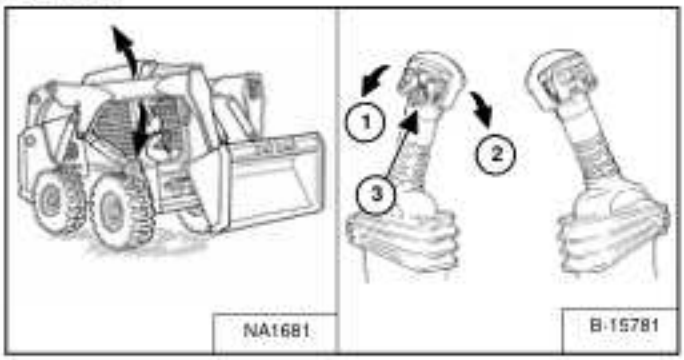
LOADER IDENTIFICATION 9

FEATURES, ACCESSORIES AND ATTACHMENTS 10
- Standard Items 10
- Options And Accessories 10
- Buckets Available 11
- Attachments 11
- High-Flow Attachments 11
- Special Applications Kit 12
- Special Applications Kit Inspection And Maintenance 12
- Forestry Door And Window Kit 13
- Forestry Door And Window Kit Inspection And Maintenance 13

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Advanced Control System (ACS) In HAND Control Mode

Figure 71



Lift Arm Operation - (Left Hand Lever)

Move the lever outward (Item 1) **[Figure 71]** to raise the lift arms.

Move the lever inward (Item 2) **[Figure 71]** to lower the lift arms.

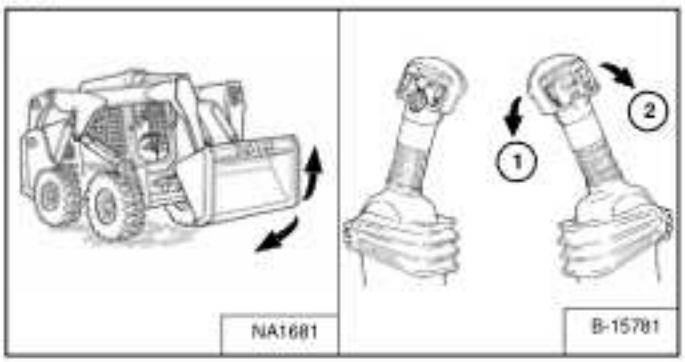
Lift Arm Float Position - (Left Hand Lever)

Press and hold the Float button (Item 3) while the lever is in neutral. Move the lever to lift arm down position (Item 2) **[Figure 71]**, then release the button.

Press Float button (Item 3) **[Figure 71]** again or move the lever to lift arm up position to disengage.

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

Figure 72



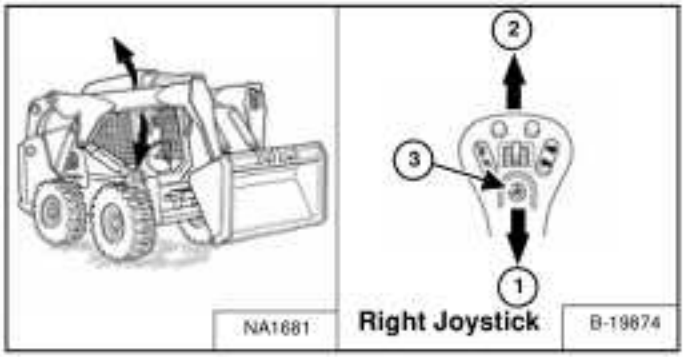
Tilt Operation - (Right Hand Lever)

Move the lever inward (Item 1) **[Figure 72]** to tilt the bucket backward.

Move the lever outward (Item 2) **[Figure 72]** to tilt the bucket forward.

Selectable Joystick Controls (SJC) In 'ISO' Control Pattern

Figure 73



Lift Arm Operation - (Right Hand Joystick)

Move the joystick backward (Item 1) **[Figure 73]** to raise the lift arms.

Move the joystick forward (Item 2) **[Figure 73]** to lower the lift arms.

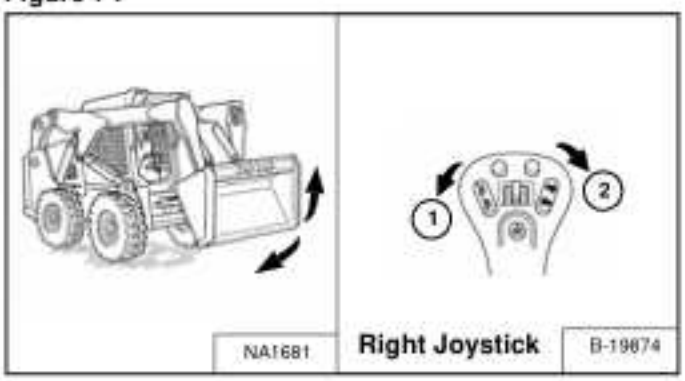
Lift Arm Float Position - (Right Hand Joystick)

Press and hold the Float button (Item 3) while the joystick is in neutral. Move the joystick to lift arm down position (Item 2) **[Figure 73]**, then release the button.

Press Float button (Item 3) again or move the joystick to lift arm up position (Item 1) **[Figure 73]** to disengage.

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

Figure 74



Tilt Operation - (Right Hand Joystick)

Move the joystick inward (Item 1) **[Figure 74]** to tilt the bucket backward.

Move the joystick outward (Item 2) **[Figure 74]** to tilt the bucket forward.

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LUBRICATING THE LOADER

Lubrication Locations

Lubricate the loader as specified for the best performance of the loader. (See SERVICE SCHEDULE on Page 117.)

Record the operating hours each time you lubricate the Bobcat loader.

Always use a good quality lithium based multipurpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

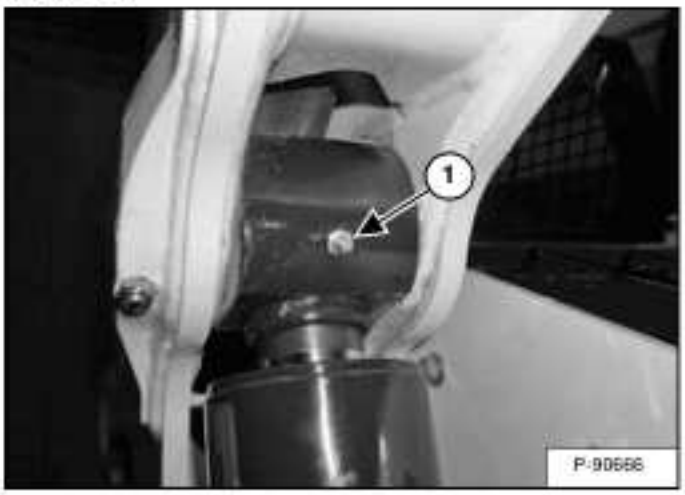
Remove attachment from the loader. (See Installing And Removing The Attachment (Hand Lever Bob-Tach) on Page 91.) ***OR*** (See Installing And Removing The Attachment (Power Bob-Tach) on Page 93.)

Tilt the Bob-Tach forward until it contacts the ground.

Stop the engine.

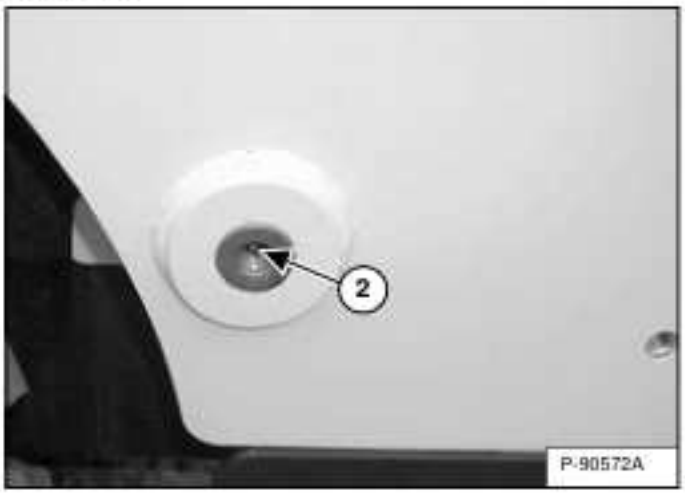
Lubricate the following:

Figure 267



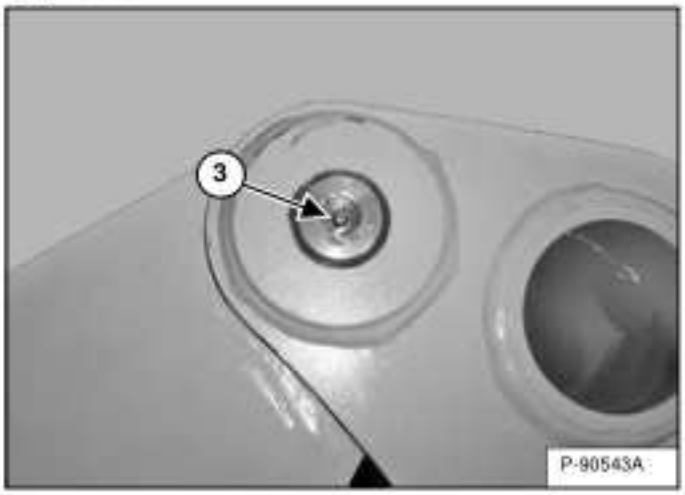
1. Rod End Lift Cylinder (Both Sides) (2) **[Figure 267]**.

Figure 268



2. Base End Lift Cylinder (Both Sides) (2) **[Figure 268]**.

Figure 269



3. Lift Arm Pivot Pin (Both Sides) (2) **[Figure 269]**.

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(S770) LOADER SPECIFICATIONS (CONT'D)

Performance

Rated Operating Capacity	1520 kg (3350 lb)
with 200 Pound Frame Mounted Counterweight Kit	1588 kg (3500 lb)
with 300 Pound Frame Mounted Counterweight Kit	1610 kg (3550 lb)
with 400 Pound Frame Mounted Counterweight Kit	1656 kg (3650 lb)
Tipping Load	3039 kg (6700 lb)
Operating Weight	4162 kg (9175 lb)
Breakout Force - Lift	2490 kg (5490 lb)
Breakout Force - Tilt	2283 kg (5033 lb)
Push Force	3354 kg (7395 lb)
Travel Speed - Single Speed Loader - Two-Speed Loader (Option) Low Range High Range	 0 - 11,4 km/h (0 - 7.1 mph) 0 - 11,4 km/h (0 - 7.1 mph) 0 - 19,8 km/h (0 - 12.3 mph)

Engine

Make / Model	Kubota / V3800-DI-TE3 Tier 3
Fuel / Cooling	Diesel / Liquid
Horsepower - ISO 9249 EEC / SAE J1349 Net - ISO 14396 Gross - SAE J1995 Gross	 65,6 kW (88.0 hp) @ 2400 rpm 67,6 kW (90.6 hp) @ 2400 rpm 68,6 kW (92.0 hp) @ 2400 rpm
Torque - ISO 9249 EEC / SAE J1349 Net - SAE J1995 Gross	 310,3 N•m (228.8 ft-lb) @ 1600 rpm 315,0 N•m (232.3 ft-lb) @ 1600 rpm
Low Idle rpm	1250 - 1400
High Idle rpm	2525 - 2650
Number of Cylinders	4
Displacement	3769 cm^3 (230 in^3)
Bore / Stroke	100 mm / 120 mm (3.94 in / 4.72 in)
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Open Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element
Ignition	Diesel - Compression
Air Induction	Turbo-Charged
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Air Intake Heater - Automatically activated as needed in RUN position.

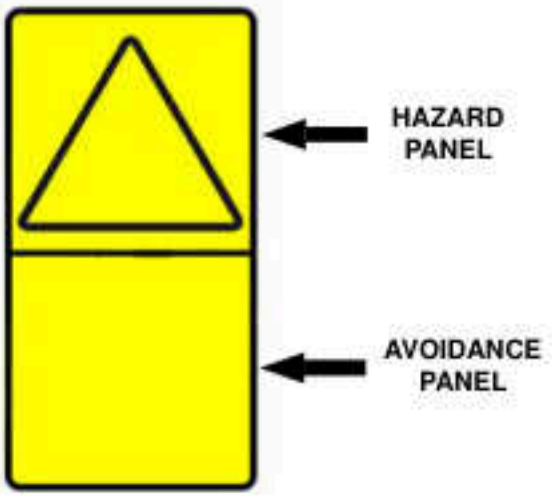
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MACHINE SIGNS (DECALS) (CONT'D)

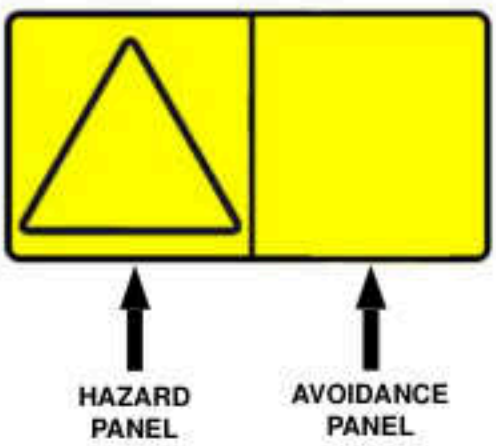
No-Text Safety Signs

Safety signs are used to alert the equipment operator or maintenance person to hazards that may be encountered in the use and maintenance of the equipment. The location and description of the safety signs are detailed in this section. Please become familiarized with all safety signs installed on the machine / attachment.

Vertical Configuration



Horizontal Configuration



The format consists of the hazard panel(s) and the avoidance panel(s):

Hazard panels depict a potential hazard enclosed in a safety alert triangle.

Avoidance panels depict actions required to avoid the hazards.

A safety sign may contain more than one hazard panel and more than one avoidance panel.

NOTE: See the numbered MACHINE SIGNS (DECALS) on Page 22 and MACHINE SIGNS (DECALS) (CONT'D) on Page 23 for the machine location of each correspondingly numbered no-text decal.

1. High Range Speeds (7184346)

This safety sign is located in the operator cab on loaders equipped with a seat belt with 3-point restraint.



WARNING

HITTING OBSTRUCTIONS AT HIGH RANGE SPEEDS CAN CAUSE SERIOUS INJURY OR DEATH

Fasten shoulder belt for additional restraint when operating at high range speeds.

W-2754-0908

2. Hot Pressurized Fluid (7169699)

This safety sign is located on the engine coolant tank cap.



WARNING

HOT PRESSURIZED FLUID CAN CAUSE SERIOUS BURNS

- **Never open hot.**
- **OPEN SLOWLY.**

W-2755-0908

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