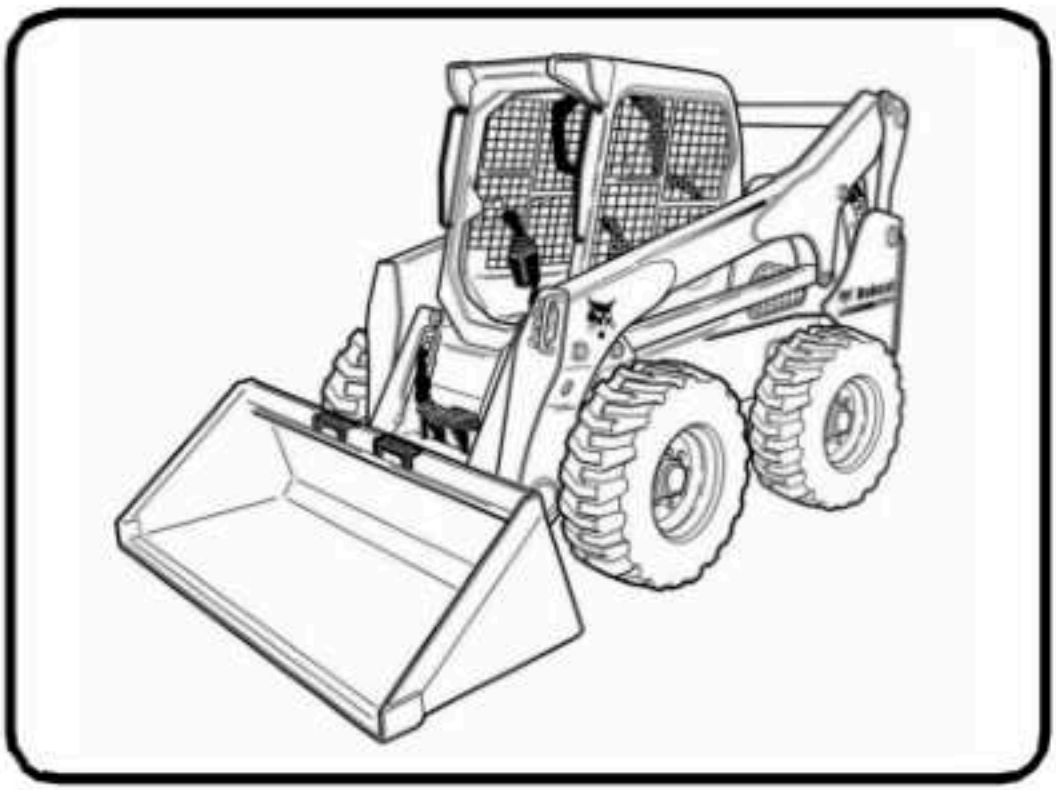
Bobcat®

# Operation & Maintenance Manual
# S750 Skid-Steer Loader

## S/N A3P211001 & Above



**EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)**

6989463 (12-10)

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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.


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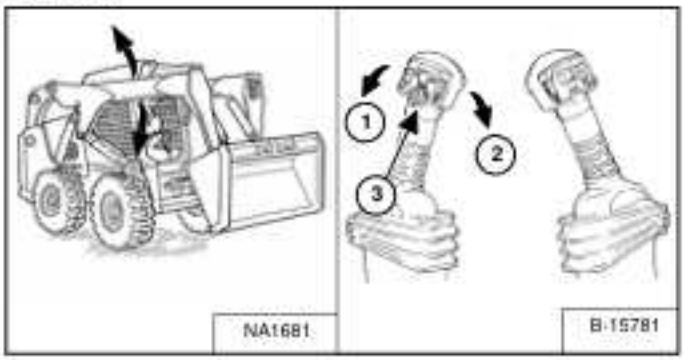




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## Advanced Control System (ACS) In HAND Control Mode

**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.

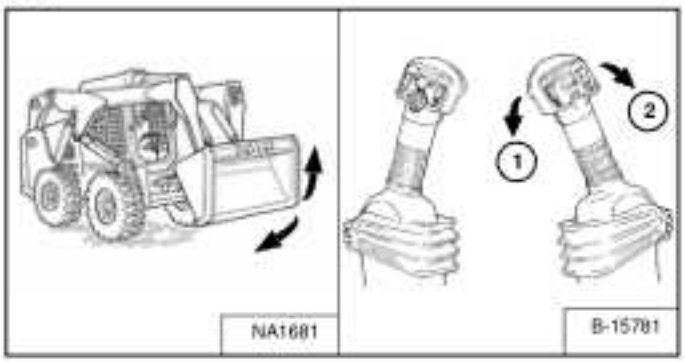
*Lift Arm Float Position - (Left Hand Lever)*

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**



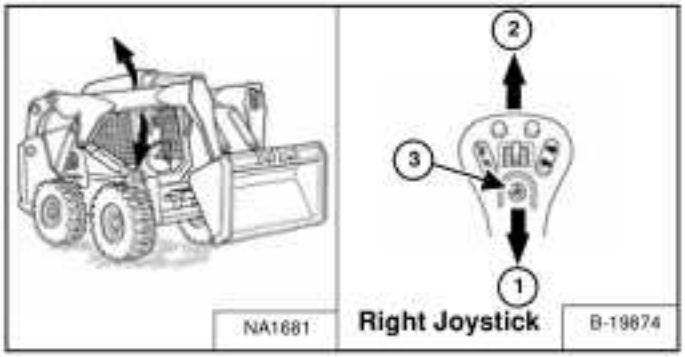

*Tilt Operation - (Right Hand Lever)*

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.

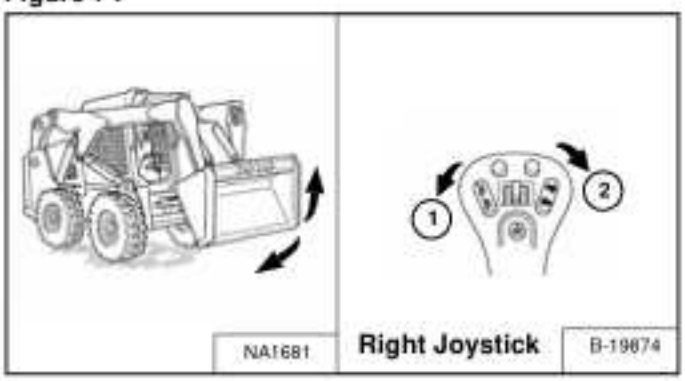
*Lift Arm Float Position - (Right Hand Joystick)*

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.

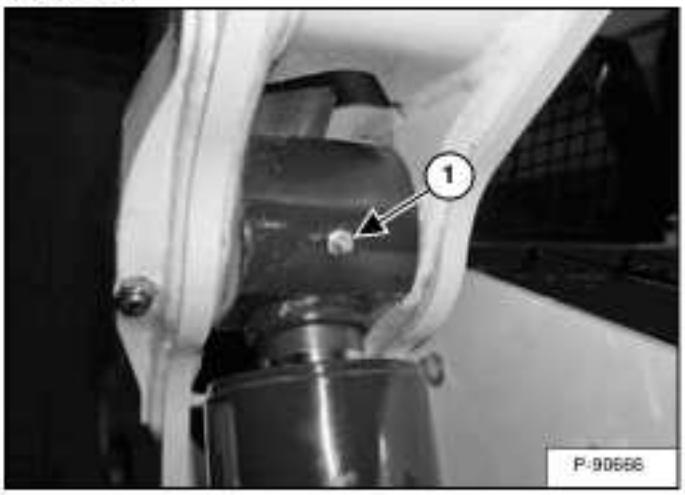
Remove attachment from the loader. (See Installing And Removing The Attachment (Hand Lever Bob-Tach) on Page 91.) ***OR*** (See Installing And Removing The Attachment (Power Bob-Tach) on Page 93.)

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

Stop the engine.

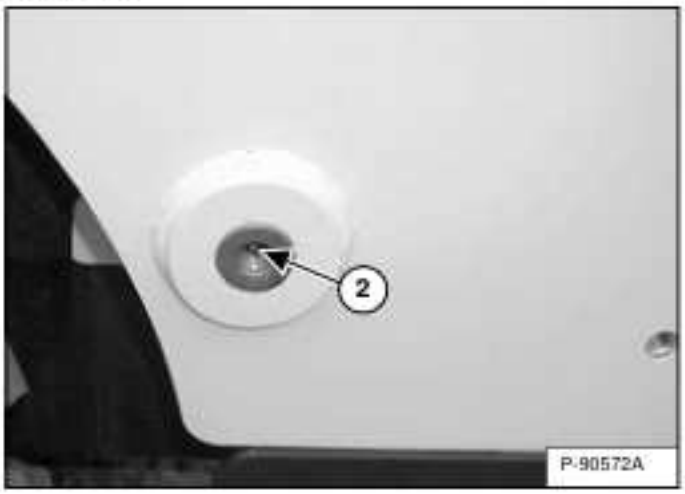
Lubricate the following:

**Figure 267**



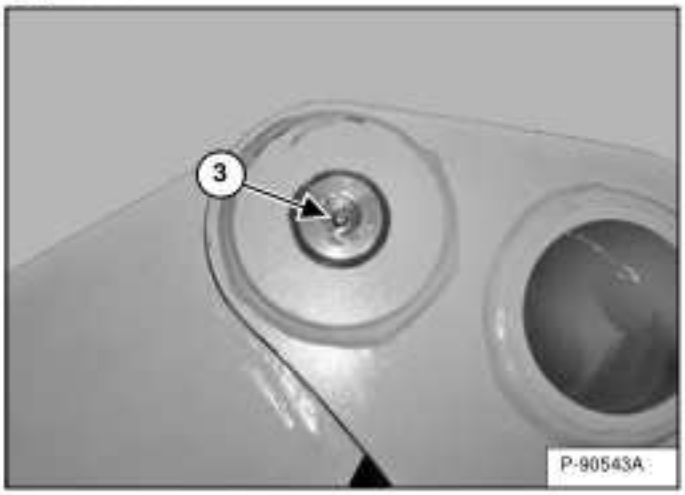

1. Rod End Lift Cylinder (Both Sides) (2) **[Figure 267]**.

**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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## (S750) LOADER SPECIFICATIONS (CONT'D)

### Performance

| | |
|---|---|
| Rated Operating Capacity | 1452 kg (3200 lb) |
| with 200 Pound Frame Mounted Counterweight Kit | 1520 kg (3350 lb) |
| with 300 Pound Frame Mounted Counterweight Kit | 1542 kg (3400 lb) |
| with 400 Pound Frame Mounted Counterweight Kit | 1588 kg (3500 lb) |
| Tipping Load | 2903 kg (6400 lb) |
| Operating Weight | 3960 kg (8730 lb) |
| Breakout Force - Lift | 2493 kg (5496 lb) |
| Breakout Force - Tilt | 2536 kg (5592 lb) |
| Push Force | 2669 kg (5884 lb) |
| Travel Speed<br>- Single Speed Loader<br>- Two-Speed Loader (Option)<br>Low Range<br>High Range | <br>0 - 11,4 km/h (0 - 7.1 mph)<br><br>0 - 11,4 km/h (0 - 7.1 mph)<br>0 - 19,8 km/h (0 - 12.3 mph) |

### Engine

| | |
|---|---|
| Make / Model | Kubota / V3800-DI-TE3 Tier 3 |
| Fuel / Cooling | Diesel / Liquid |
| Horsepower<br>- ISO 9249 EEC / SAE J1349 Net<br>- ISO 14396 Gross<br>- SAE J1995 Gross | <br>61,0 kW (81.8 hp) @ 2400 rpm<br>62,5 kW (83.8 hp) @ 2400 rpm<br>63,4 kW (85.0 hp) @ 2400 rpm |
| Torque<br>- ISO 9249 EEC / SAE J1349 Net<br>- SAE J1995 Gross | <br>305,4 N•m (225.3 ft-lb) @ 1600 rpm<br>310,0 N•m (228.6 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. |



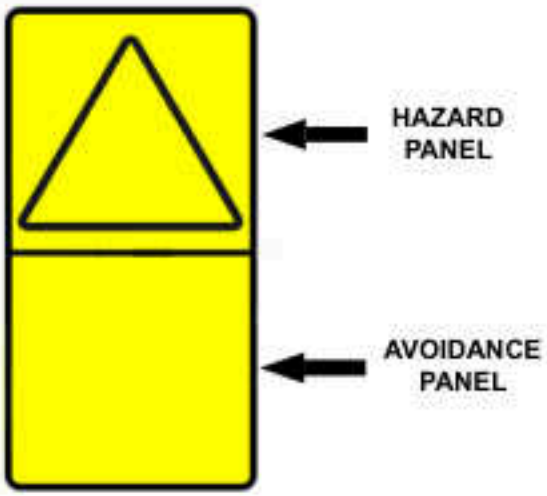
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## MACHINE SIGNS (DECALS) (CONT'D)

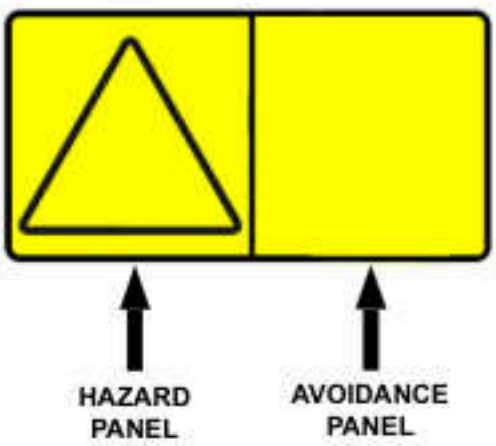
### No-Text Safety Signs

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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