

Product: 1999 Bobcat Tilt-Tatch Service Repair Workshop Manual(S/N 678300101 & Above)

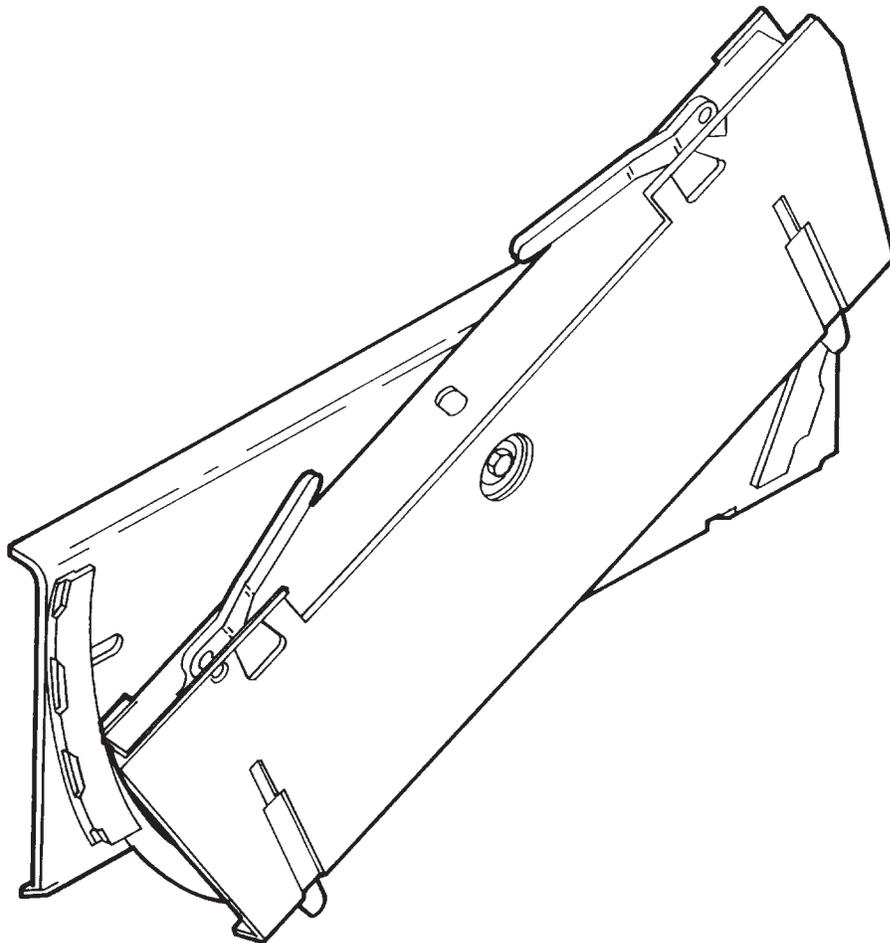
Full Download: <https://www.aresairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/>



TILT-TATCH

S/N 678300101 & Above

SERVICE MANUAL



Sample of manual. Download All 36 pages at:

<https://www.aresairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/>

MELROE
INGERSOLL-RAND



© Melroe Company 1999
Printed in U.S.A.

Product: 1999 Bobcat Tilt-Tatch Service Repair Workshop Manual(S/N 678300101 & Above)

Full Download: [https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch](https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/)

[ch-service-repair-workshop-manuals-n-678300101-above/](https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/)

Sample of manual. Download All 36 pages at:

<https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/>

MAINTENANCE SAFETY



WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



B-10731a

-  Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment with the engine running unless instructed to do so in manual.
-  Always lower the attachment to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



Bobcat®

ALPHABETICAL INDEX

HYDRAULIC CYLINDER	10-20-1
IDENTIFICATION	iii
LEVER AND WEDGE	10-30-1
LUBRICATION AND INSPECTION	10-10-1
SERIAL NUMBER LOCATION	iii
SCHEMATIC	10-40-1
SPECIFICATIONS	10-40-1
TROUBLESHOOTING	10-10-1



CONTENTS

SERIAL NUMBER LOCATION	iii
IDENTIFICATION	iii
PREVENTIVE MAINTENANCE	10-10-1
HYDRAULIC SYSTEM	10-20-1
MAIN FRAME	10-30-1
SPECIFICATIONS AND SCHEMATICS	10-40-1

**PREVENTIVE
MAINTENANCE**

**HYDRAULIC
SYSTEM**

MAIN FRAME

**SPECIFICATIONS
AND
SCHEMATICS**

**CALIFORNIA
PROPOSITION 65 WARNING**

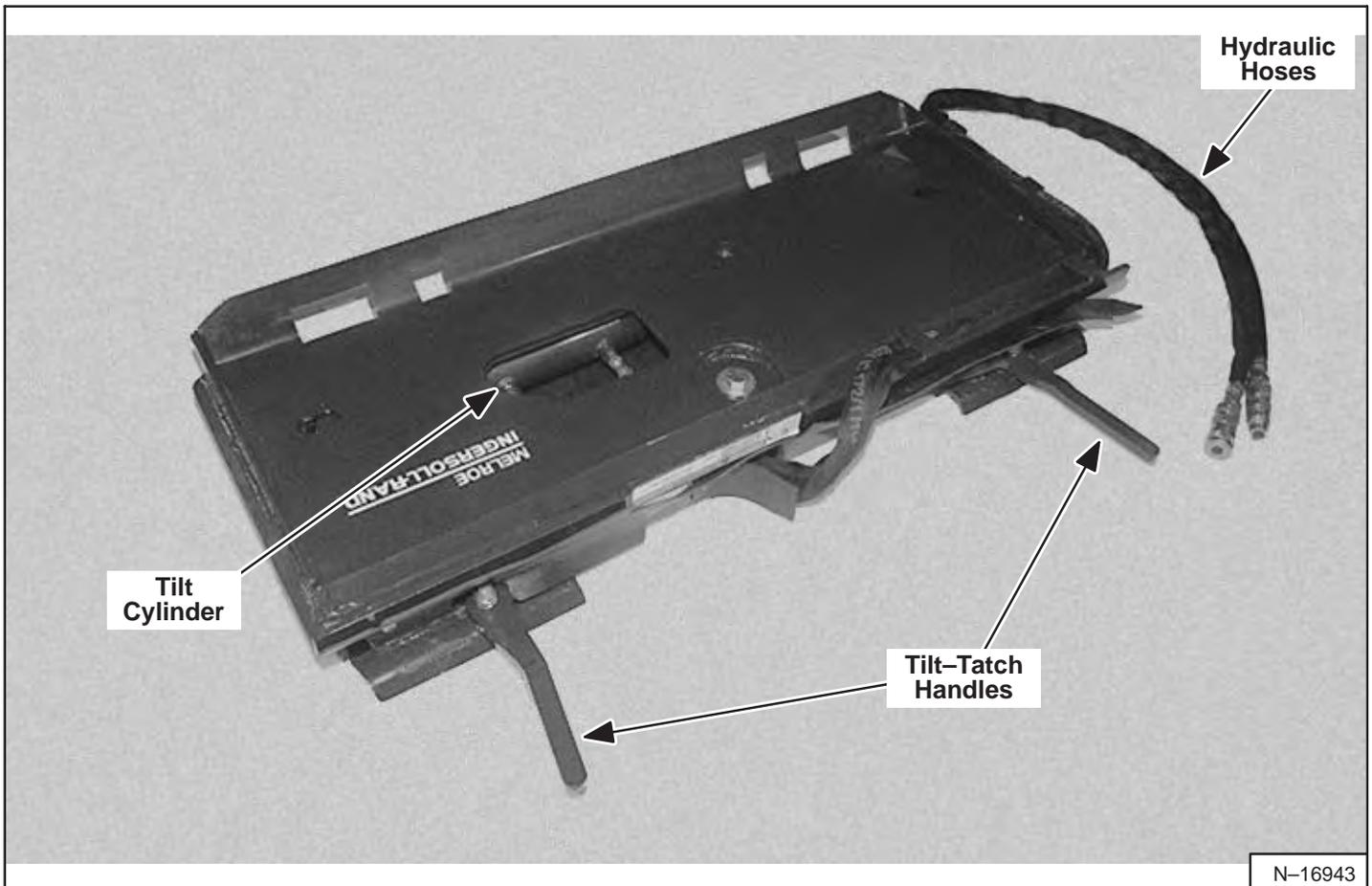
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



SERIAL NUMBER LOCATION

Always use the serial number of the Trench Compactor when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [A].

IDENTIFICATION





PREVENTIVE MAINTENANCE

	Page Number
LUBRICATION AND INSPECTION	
Lubrication Points	10-10-4
Tilt-Tatch Mount Inspection	10-10-4
TRUBLESHOOTING	10-10-3



TROUBLESHOOTING

WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0199

PROBLEM	CAUSE	CORRECTION
Tilt-Tatch does not seat properly on the Bob-Tach.	Bob-Tach wedges are not fully retracted.	Retract Bob-Tach wedges.
	Mud, dirt or stones are lodged between the Bob-Tach and the Tilt-Tatch.	Dislodge object from between Bob-Tach and Tilt-Tatch.
Tilt-Tatch does not angle.	Auxiliary front hydraulics not engaged.	Engage loader front auxiliary hydraulics.
	No hydraulic flow.	Check quick coupler connection. Check for damaged hose ends and fittings.
	Excessive dirt and debris in Tilt-Tatch.	Remove dirt and debris.
Excessive movement between Tilt-Tatch plates.	Center pivot bolt is loose.	Tighten to correct torque.
	Wear guides are worn.	Repair or replace the Tilt-Tatch.

LUBRICATION AND INSPECTION

Always use a good quality lithium base grease when lubricating the Tilt-Tatch. Apply the lubricant until extra grease shows.

IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0395

LUBRICATION POINTS

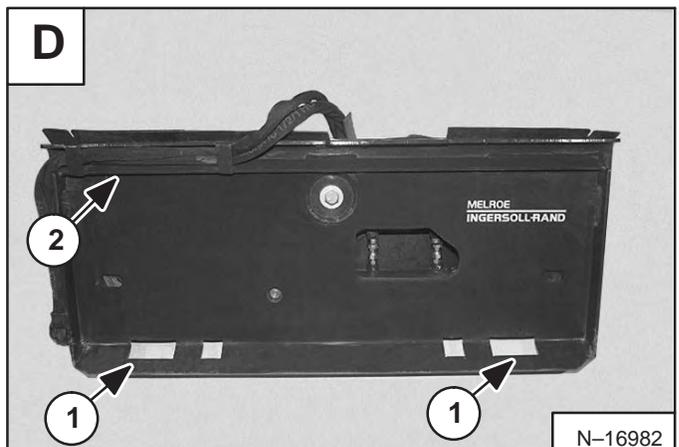
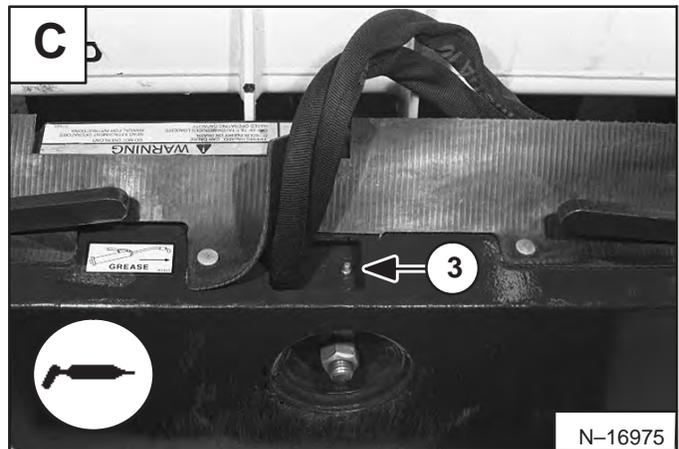
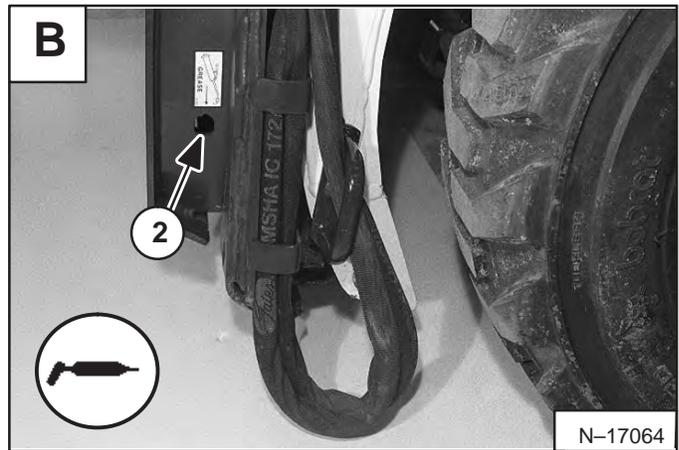
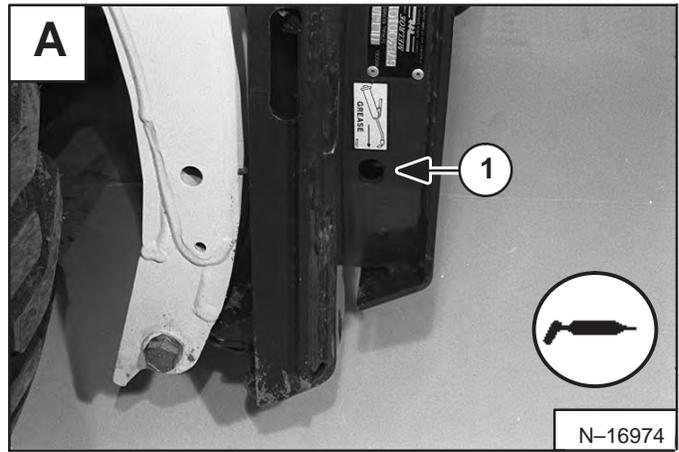
Lubricate the following grease fittings. **EVERY 8-10 HOURS:** 

1. Right Tilt-Tatch wedge [A].
2. Left Tilt-Tatch wedge [B].

3. Center Pivot [C].

Tilt-Tatch Mount Inspection

Inspect the Bob-Tatch wedge mounts (Item 1) [D], mounting flange (Item 2) [D] and all welds on the Tilt-Tatch mount for wear and damage each time the Tilt-Tatch is removed from the loader.



HYDRAULIC SYSTEM

	Page Number
HYDRAULIC CYLINDER	
Assembly	10-20-10
Disassembly	10-20-8
Parts Identification	10-20-7
Removal And Installation	10-20-3

HYDRAULIC SYSTEM



HYDRAULIC CYLINDER

Removal And Installation

Position the Tilt-Tatch on blocks with the pivot plate down.

Loosen and remove the nut (Item 1) [A].

NOTE: Hold the bolt (Item 1) [B] with a wrench while removing the nut (Item 1) [A].

Installation: Tighten the locknut to 180–200 ft.-lbs. (244–271 Nm) torque.

Loosen and remove the bolt (Item 1) [B] from the Tilt-Tatch.

NOTE: The bolt is threaded into the pivot plate.

Installation: Tighten the bolt to 50 ft.-lbs. (69 Nm) torque.

Remove the retainer bolt (Item 1) [C] from the rod end of the cylinder.

Installation: Tighten the retainer bolt to 18–20 ft.-lbs. (24–27 Nm) torque.

WARNING

Wear safety glasses to prevent eye injury when any of the following conditions exist:

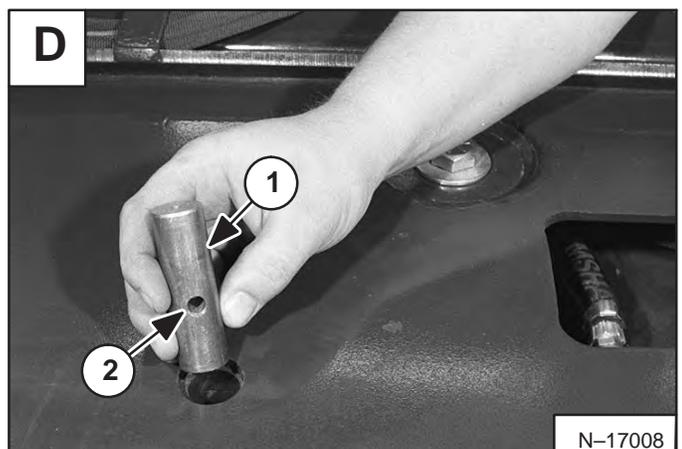
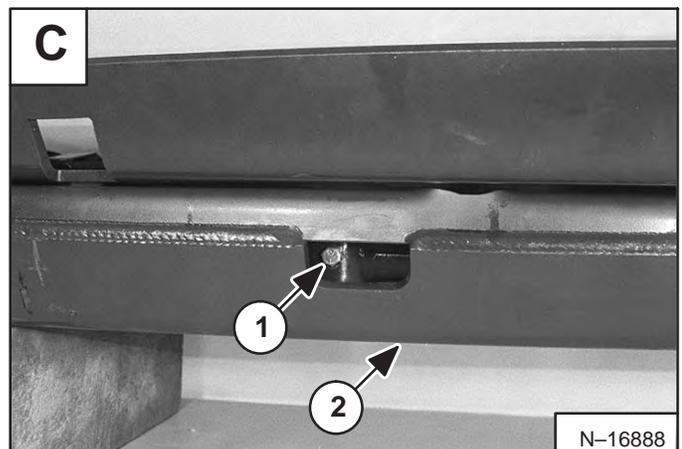
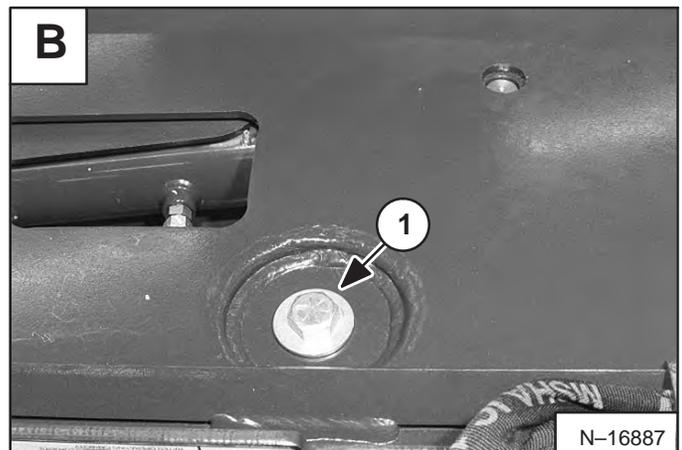
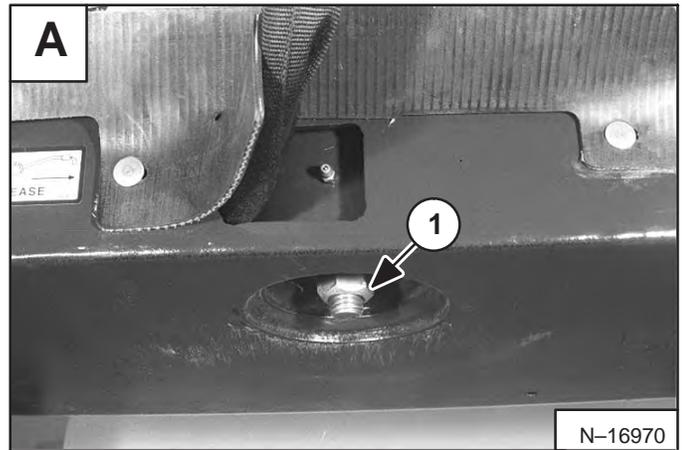
- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-1285

Remove the cylinder pin (Item 1) [D] using a hammer and punch.

NOTE: Access to the cylinder pin is provided through the access hole on the front of the pivot plate (Item 2) [C].

NOTE: Record the position of the cylinder pin as it is removed. The cylinder pin retaining bolt hole (Item 2) [D] is offset. The cylinder pin can only be installed one way.



Product: 1999 Bobcat Tilt-Tatch Service Repair Workshop Manual(S/N 678300101 & Above)
Full Download: <https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/>

HYDRAULIC CYLINDER (Cont'd)

Removal And Installation (Cont'd)

Mark the hoses for ease of assembly.

Disconnect the hoses from the hydraulic cylinder [A].

Install caps and plugs on the cylinder and hoses.



! WARNING

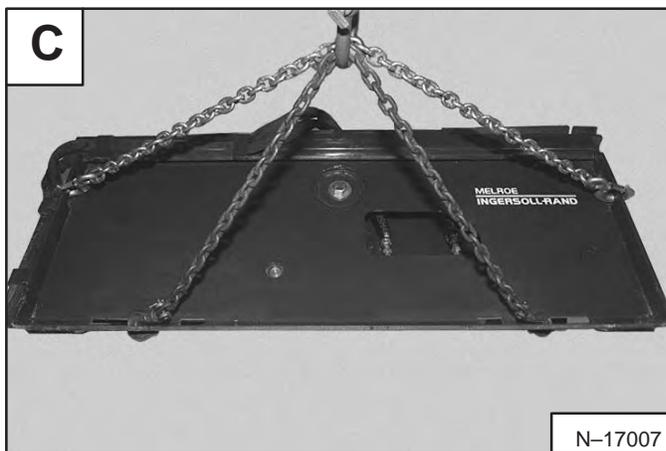
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285

Pull the hoses from the pivot plate [B].



Install lifting chains to the four corners of the back plate.



Rotate the back plate clockwise until it clears the guides [D].



Sample of manual. Download All 36 pages at:

<https://www.arepairmanual.com/downloads/1999-bobcat-tilt-tatch-service-repair-workshop-manuals-n-678300101-above/>