

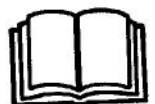
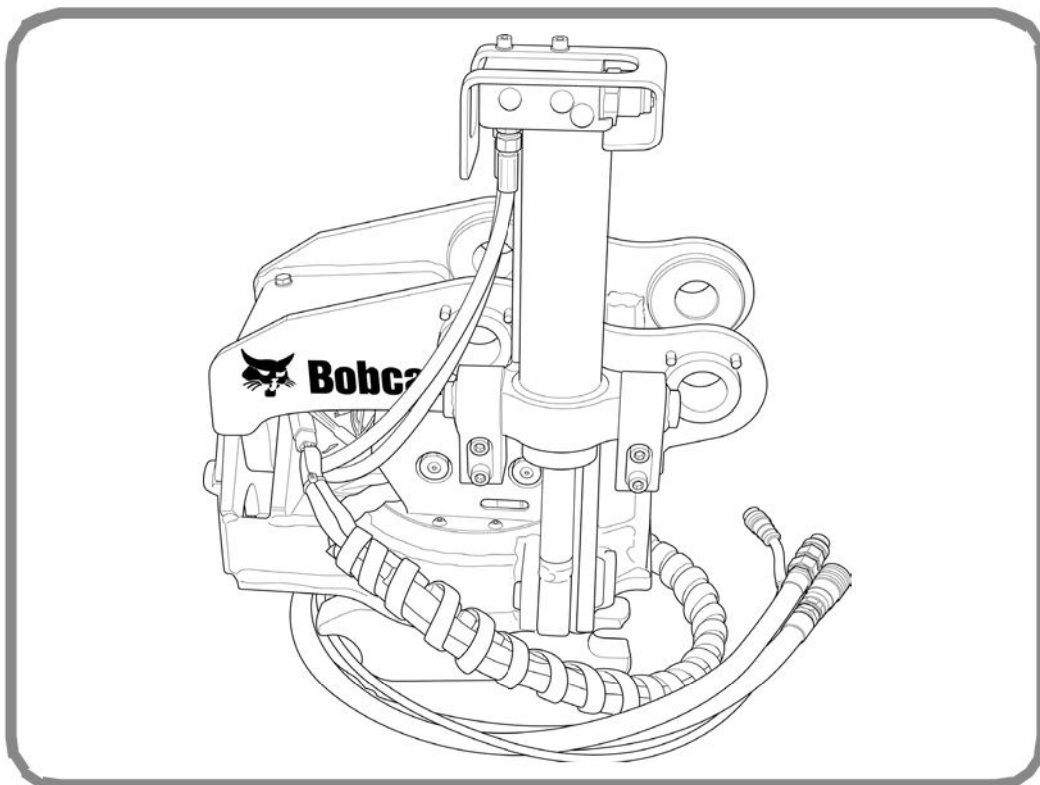


Bobcat®

EN

Service Manual Tiltrotator

S/N AFF000101 & Above



MAINTENANCE SAFETY



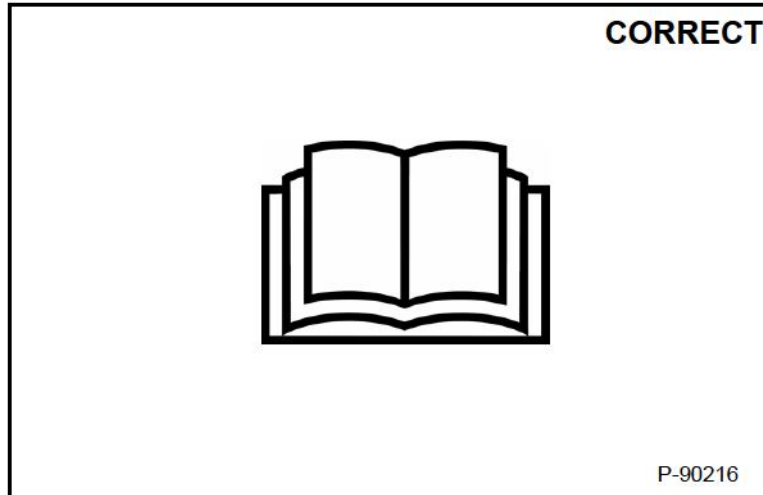
WARNING









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-2003-0807



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



-  Never service attachments / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement 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.

MSW30-0409

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**SAFETY AND
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**MAIN
FRAME**

**SPECIFICATIONS
AND
SCHEMATICS**

REFERENCE INFORMATION

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

Tiltrotator Serial Number

NOTES:

YOUR BOBCAT® DEALER:

ADDRESS:

PHONE:



Bobcat Company
Drève Richelle 167
B-1410 WATERLOO
Belgium

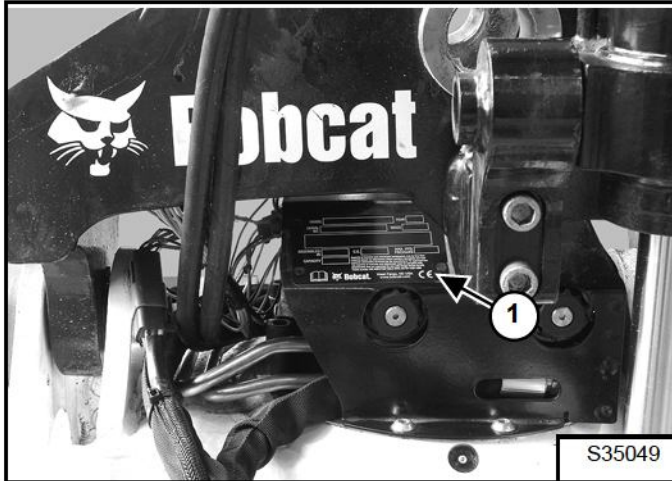
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SERIAL NUMBER LOCATION

Attachment Serial Number

Always use the serial number of the tiltrotator 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.

Figure 1



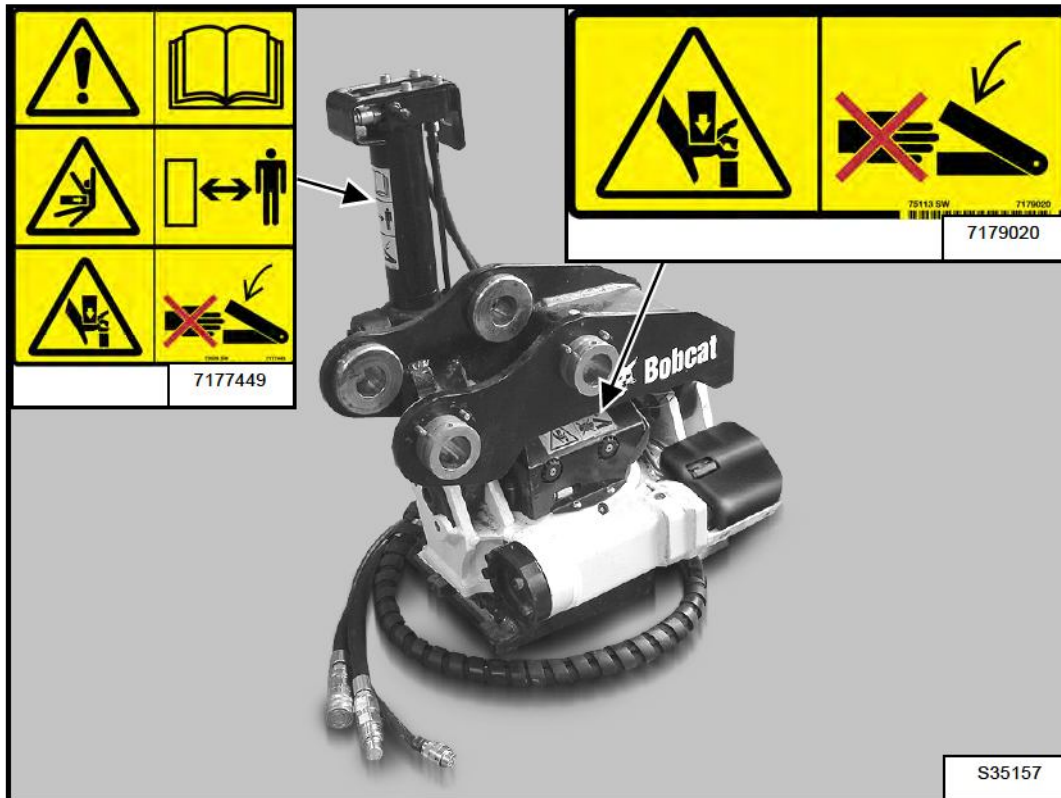
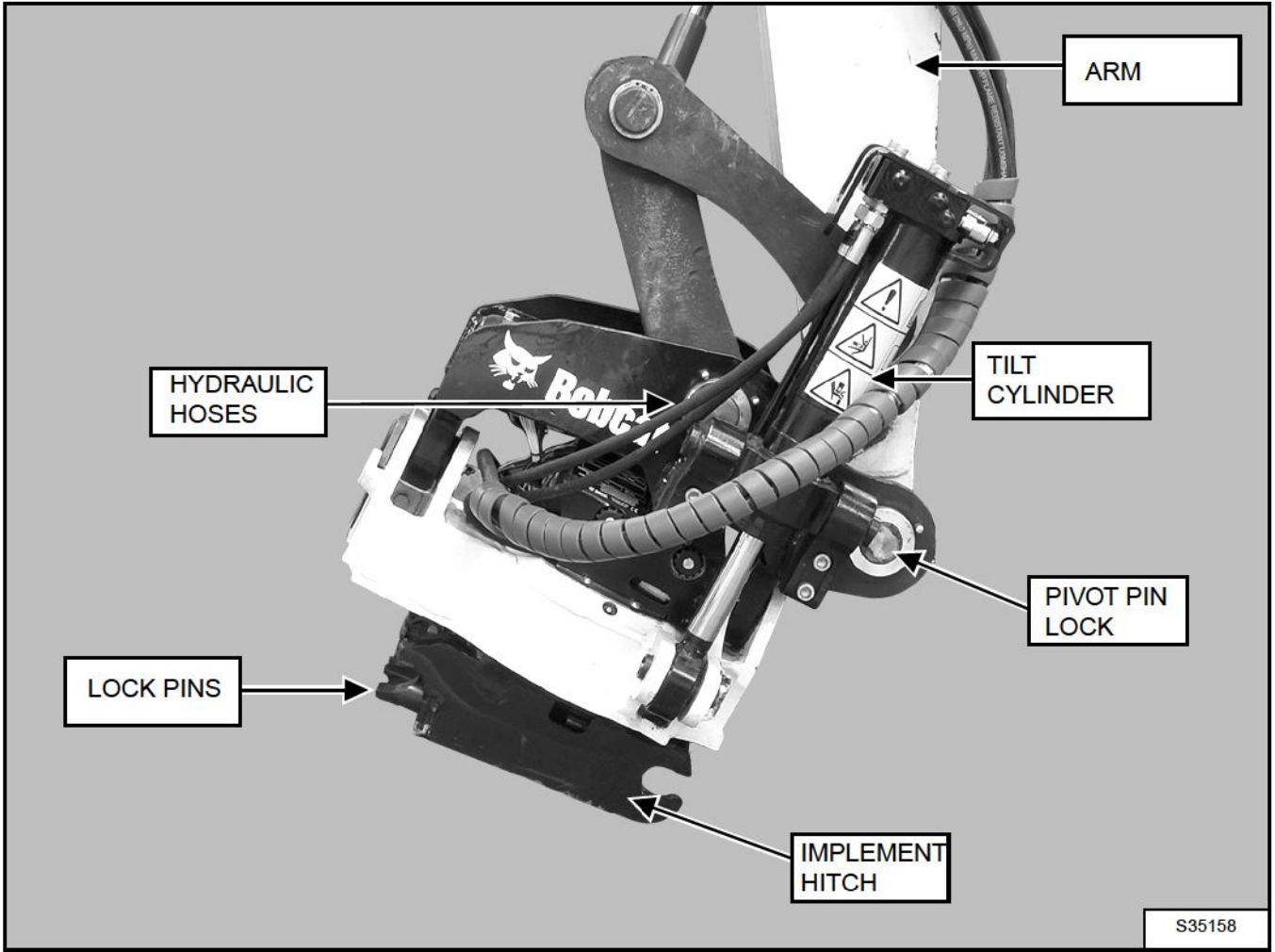
The tiltrotator serial number plate (Item 1) [Figure 1] is located on the control valve cover plate.

DELIVERY REPORT

Figure 2

The delivery report must be filled out by the dealer and signed by the owner or operator when the Bobcat tiltrotator is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 2].

IDENTIFICATION AND MACHINE SIGNS (DECALS)



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SAFETY AND MAINTENANCE

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**SAFETY AND
MAINTENANCE**

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TROUBLESHOOTING

Chart



AVOID INJURY OR DEATH

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-2003-0807

If the tiltrotator is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the tiltrotator. Tiltrotator problems can be affected by a hydraulic system that is not operating to specifications or such problems as a plugged fuel filter or hydraulic filter in the machine. (See the machine Service Manual for the correct trouble shooting procedures).

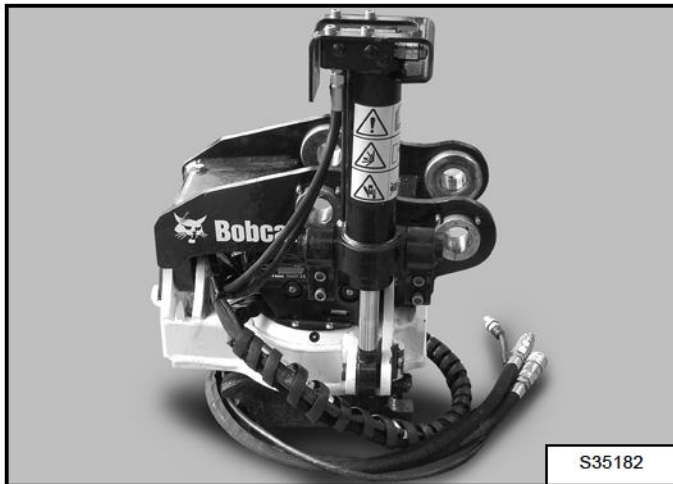
TROUBLESHOOTING	
PROBLEM	CORRECTION
None of the functions work	Check the supply current to the control unit and the fuse.
	Check that the pressure and return line to the tiltrotator are correctly connected.
	Check that all cable assemblies are correctly connected.
One function does not work	Check the cable assembly and connections to the joystick of the function that does not work.
Rotates in wrong direction	Change places between the cables of connectors C610 and C611 on the control unit.
Hydraulic fluid is leaking	Tighten or replace loose or damaged fittings and hoses as necessary.
Tilts in wrong direction	Change places between the cables of connectors C620 and C621 on the control unit.
The implement lock does not work	Check that all cable assemblies are correctly connected.
	Check that the pressure and return line to the tiltrotator correspond to the chosen oil direction.

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DAILY INSPECTION

Tiltrotator

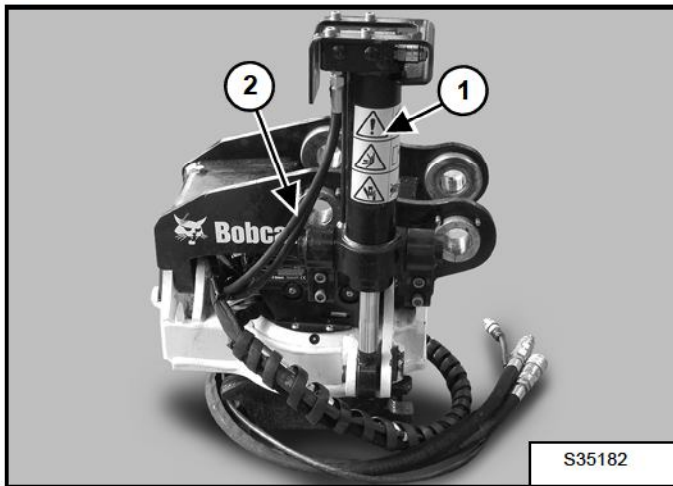
Figure 10-20-1



Inspect the tiltrotator, welds, and all hardware daily for wear or damage [Figure 10-20-1].

Repair or replace all damaged or missing parts.

Figure 10-20-2



Inspect the tiltrotator hydraulic cylinder (Item 1) and hoses (Item 2) [Figure 10-20-2] daily for wear or damage.

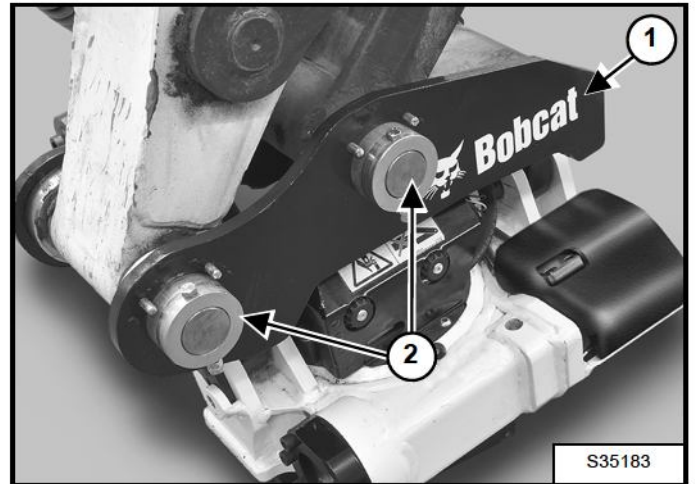
Inspect the Deluxe Attachment Harness and hoses on the excavator.

Repair or replace all damaged or missing parts.

Check for leaks.

Pin-On Mounting

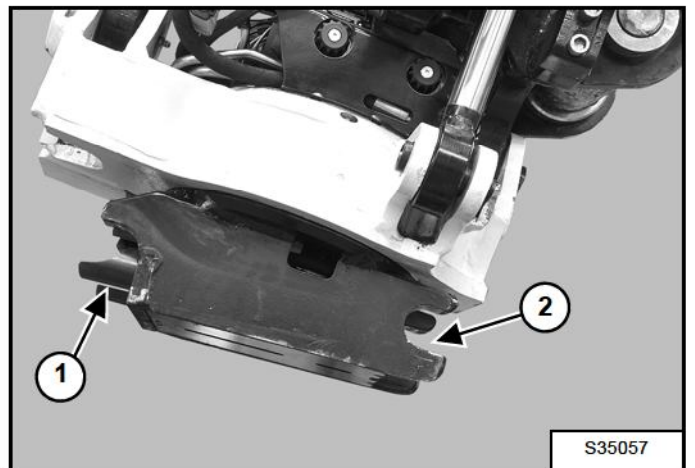
Figure 10-20-3



Inspect the tiltrotator top mount bracket (Item 1) for wear or damage. Inspect the pivot pins (Item 2) [Figure 10-20-3] for wear or damage.

S-System Quick Coupler

Figure 10-20-4



Inspect the quick hitch connection for wear or damage. Inspect the quick hitch lock pins (Item 1), implement hitch (Item 2) [Figure 10-20-4] (on the attachment) and all hardware for wear or damage.

Repair or replace damaged parts.

LUBRICATION

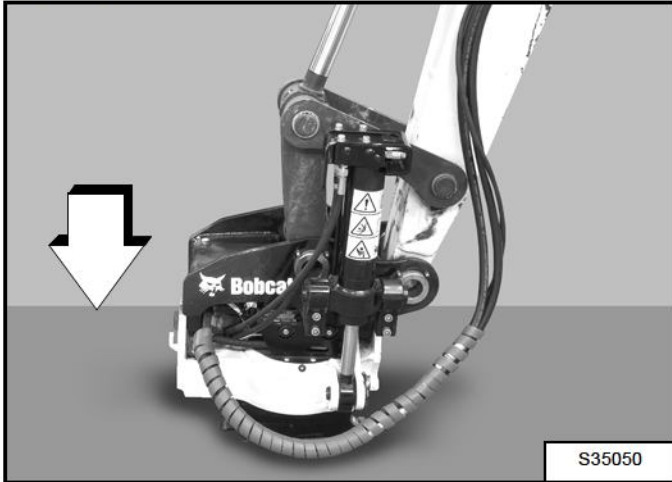
Lubrication Locations

Always use a good quality lithium base multipurpose grease when lubricating the attachment. Apply lubricant until extra grease shows.

Grease the tiltrotator every eight hours of operation.

Park the excavator on a flat and level surface.

Figure 10-30-1



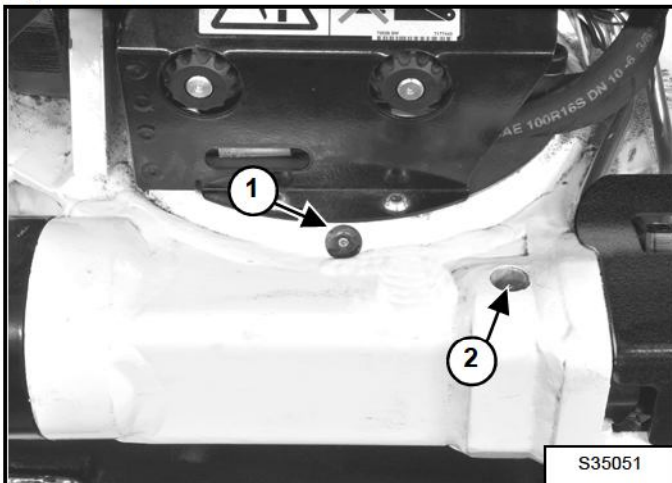
Place the tiltrotator flat on the ground [Figure 10-30-1].

Stop the engine.

Exit the excavator (See Operation And Maintenance Manual for correct procedure).

Lubricate the following locations on the tiltrotator:

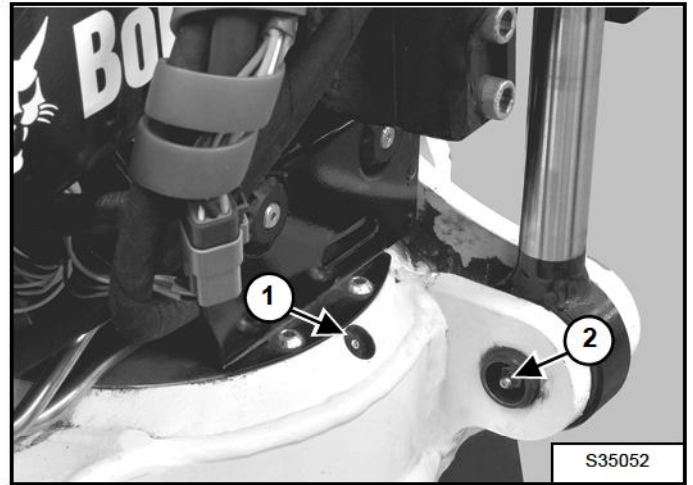
Figure 10-30-2



Worm gear housing (Item 1) [Figure 10-30-2] on right side.

Worm screw housing (Item 2) [Figure 10-30-2] on right side.

Figure 10-30-3



Worm gear housing (Item 1) [Figure 10-30-3] on left side.

Cylinder rod end pin (Item 2) [Figure 10-30-3].

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