

T3571

S/N 362811001
& above

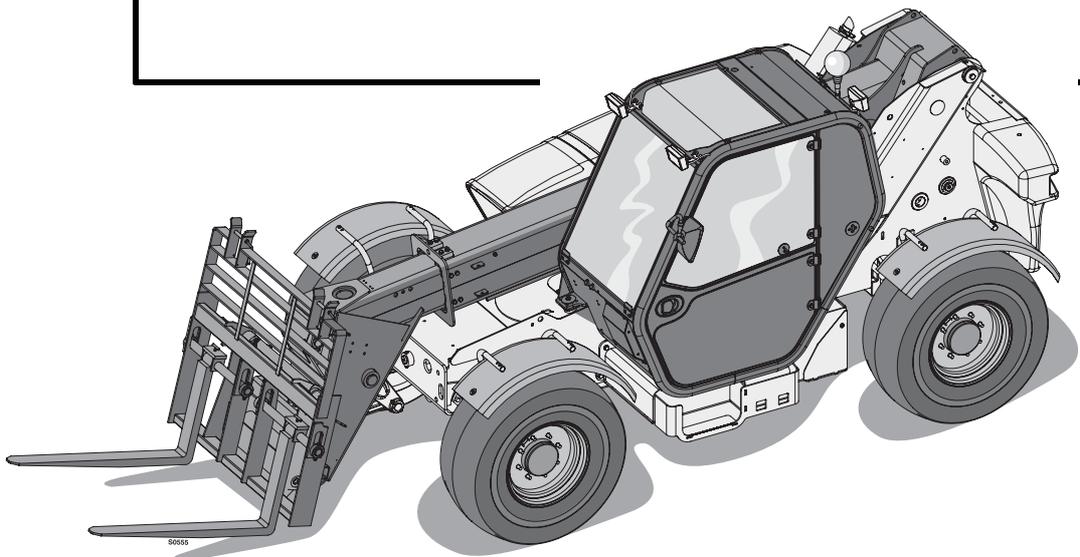
T3571L

S/N 362911001
& above



Bobcat®

SERVICE MANUAL



Sample of manual. Download All 1034 pages at:

<https://www.aresairmanual.com/downloads/2006-bobcat-t3571t3571l-telescopic-handler-service-repair-workshop-manual/>

Product: 2006 Bobcat T3571,T3571L Telescopic Handler Service Repair Workshop Manual
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<https://www.arepairmanual.com/downloads/2006-bobcat-t3571t3571l-telescopic-handler-service-repair-workshop-manual/>

MAINTENANCE SAFETY

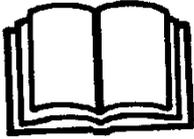


WARNING

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

CORRECT



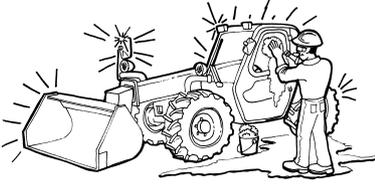
B-10731a

- ⚠ Never service the Bobcat Telescopic Handler without instructions.



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

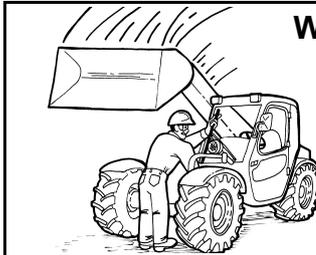
CORRECT



B-16082

- ⚠ Cleaning and maintenance are required daily.

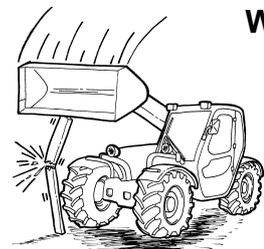
WRONG



B-16080

- ⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause boom to drop. Do not go under boom when raised unless supported by an approved boom stop. Replace if damaged.

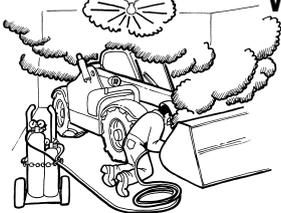
WRONG



B-16079

- ⚠ Never work on Telescopic Handler with boom up unless boom is held by an approved boom stop. Replace if damaged.
- ⚠ Never modify equipment or add attachments not approved by Bobcat Company.

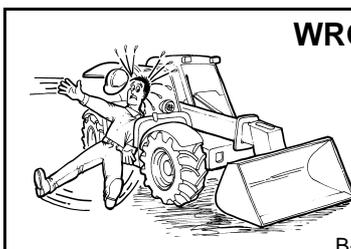
WRONG



B-16081

- ⚠ Have good ventilation when welding or grinding painted parts.
- ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
- ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

WRONG



B-16078

- ⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
- ⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

WRONG



B-6589

- ⚠ Lead-acid batteries produce flammable and explosive gases.
- ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
- ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use **genuine Bobcat replacement parts**.

MSW12-0805



Bobcat®

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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

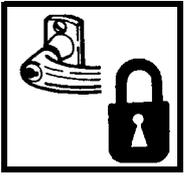
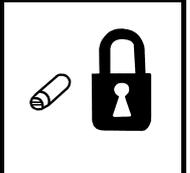
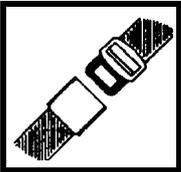
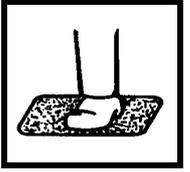
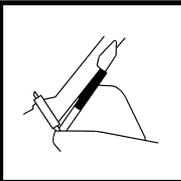
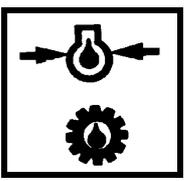
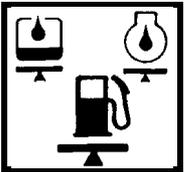
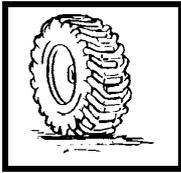
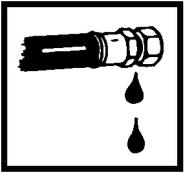
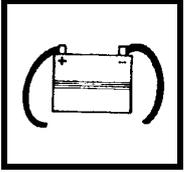
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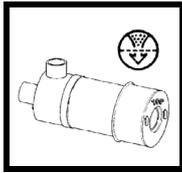
FOREWORD

This manual is for the Bobcat Telescopic Handler mechanic. It provides necessary servicing and adjustment procedures for the Bobcat Telescopic Handler and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

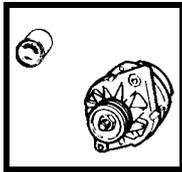
A general inspection of the following items must be made after the Telescopic Handler has had service or repair:

- | | | | |
|---|---|---|---|
| 1. Check that ROPS/FOPS (including right side window) is in good condition and is not modified. |  | 9. Enclosure door latches must open and close freely. |  |
| 2. Check that ROPS mounting hardware is tightened and is Bobcat approved. |  | 10. Attachment locking pins must function correctly and be in good condition. |  |
| 3. The seat belt must be correctly installed, functional and in good condition. |  | 11. Safety treads must be in good condition. |  |
| 4. Check boom support device, replace if damaged. |  | 12. Check for correct function of indicator lamps and gauges. |  |
| 5. Machine signs must be legible and in the correct location. |  | 13. Check hydraulic fluid level, engine oil level and fuel supply. |  |
| 6. Check tires for wear and pressure. Use only approved tires. |  | 14. Inspect for fuel, oil or hydraulic fluid leaks. |  |
| 7. Check for correct function of the work lights. |  | 15. Lubricate the Telescopic Handler. |  |
| 8. The parking brake must function correctly. |  | 16. Check the condition of the battery and cables. |  |

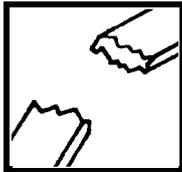
17. Inspect the air cleaner for damage or leaks. Check the condition of the element.



18. Check the electrical charging system.



19. Inspect for loose or broken parts or connections.



20. Operate the Telescopic Handler and check all functions.



21. Check for any field modification not completed.



22. Recommend to the owner that all necessary corrections be made before the machine is returned to service.





Bobcat®

SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat Telescopic Handler is highly maneuverable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications, common with Bobcat Telescopic Handler usage.

The Bobcat Telescopic Handler has an internal combustion engine with resultant heat and exhaust. All exhaust gasses can kill or cause illness so use the Telescopic Handler with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat Telescopic Handler and attachment for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for a Rated Load Capacity. They are designed for secure fastening to the Bobcat Telescopic Handler. The user must check with the dealer, or Bobcat literature, to determine safe loads of materials of specified densities for the machine - attachment combination.

The following publications and training materials provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine and attachment is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment gives operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- Load Capacity Charts for each attachment are provided in the operator area. These charts indicate the Rated Load Capacity for each attachment at specified boom heights and extensions. Replacement or additional charts for new attachments are available from your Bobcat dealer.

- An Operator's Handbook is fastened to the operator cab of the Telescopic Handler. It's brief instructions are convenient to the operator. The Handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The AEM Safety Manual delivered with the machine gives general safety information.
- The "Safety Training for Operators of the Bobcat Telescopic Handler" course is available through your Bobcat dealer. This course is intended to provide rules and practices of correct operation of the Bobcat Telescopic Handler. The course is available in English and Spanish versions.
- See the PUBLICATIONS AND TRAINING RESOURCES Page in this manual or your Bobcat dealer for Service and Parts Manuals, printed materials, videos, or training courses available. Also check the Bobcat web sites www.training.bobcat.com or www.bobcat.com

The dealer and owner/operator review the recommended uses of the product when delivered. If the owner/operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.

SAFETY INSTRUCTIONS (CONT'D)

Safe Operation Is The Operator's Responsibility



Safety Alert Symbol

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



WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284



WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

The Bobcat Telescopic Handler and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- OSHA Rule 29 CFR 1910.178 (I) requires employers to train employees operating Rough Terrain Forklifts.
- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders or structures and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Load Capacity of the machine (as indicated on the Load Capacity Charts). Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities for more information on this.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or Front Window Guard are required for some work. See your Bobcat dealer about Bobcat Safety Equipment.

SERIAL NUMBER LOCATIONS

Always use the serial number of the Telescopic Handler 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.

Telescopic Handler Serial Number

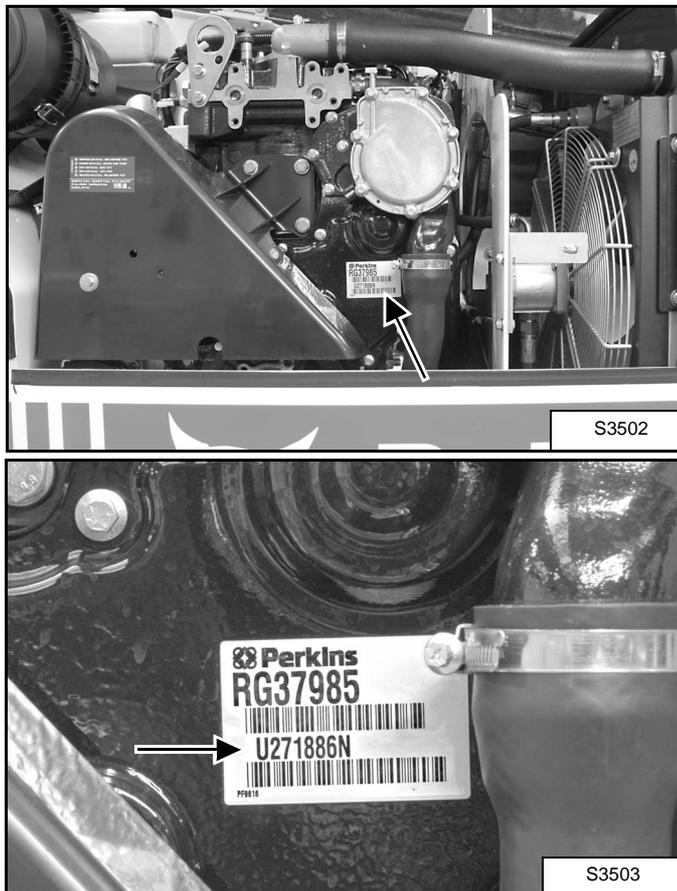
Figure 1



The front, on the right side of the chassis [Figure 1].

Engine Serial Number

Figure 2



The engine serial number can be found on the cylinder block [Figure 2] in front of you when opening the engine cover. Always use the full number when ordering replacement parts.

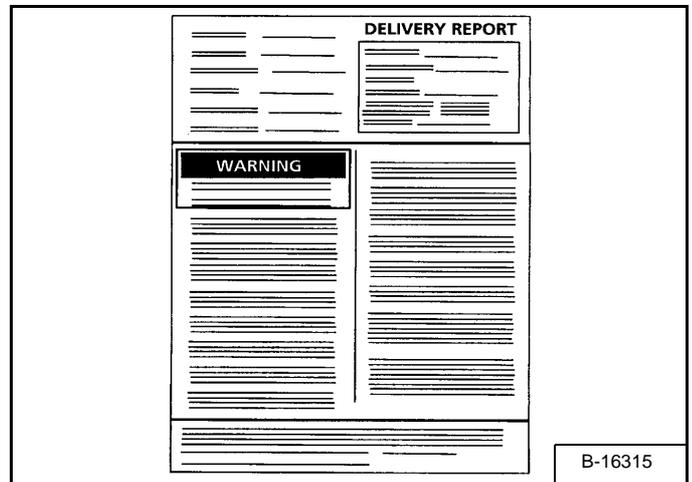
Other Serial Numbers

Some components may also have serial numbers. Always use these serial numbers when requesting parts.

Delivery Report

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Telescopic Handler is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 3].

Figure 3



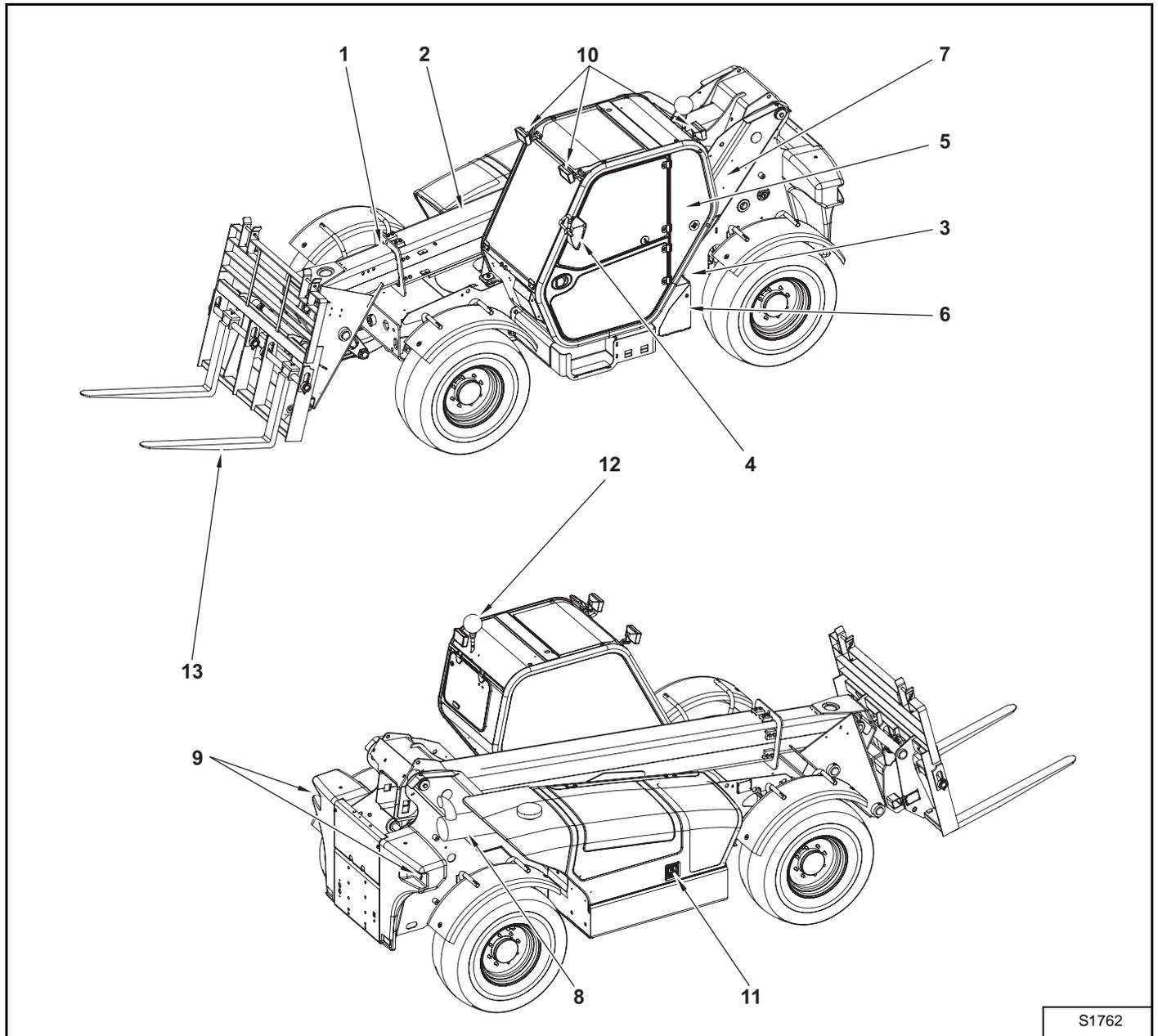
A black and white image of a 'DELIVERY REPORT' form. The form has a header section with several lines of text, a 'WARNING' section with a bolded title and several lines of text, and a bottom section with several lines of text. The form is labeled 'B-16315' in the bottom right corner.

Identification of the telescopic handler

Reference	Designation
1	Telescopic boom
2	Boom
3	Fuel tank
4	Mirror
5	Operator Cab
6	Battery compartment
7	Boom stop (opt.)
8	Engine exhaust
9	Lights
10	Working lights
11	Engine cover
12	Rotating beacon
13	Pallet forks

For the T3571 and T3571L telescopic handlers [Figure 4].

Figure 4



S1762

SAFETY AND MAINTENANCE

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LIFTING AND BLOCKING THE TELESCOPIC HANDLER

Procedure

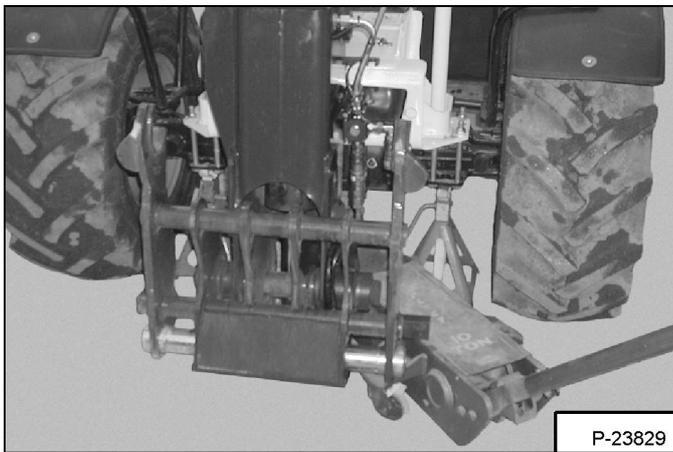
Always park the machine on a level surface.

WARNING

Put jackstands under the front and rear axle before running the engine for service. Failure to use jackstands can allow the machine to fall or move and cause injury or death.

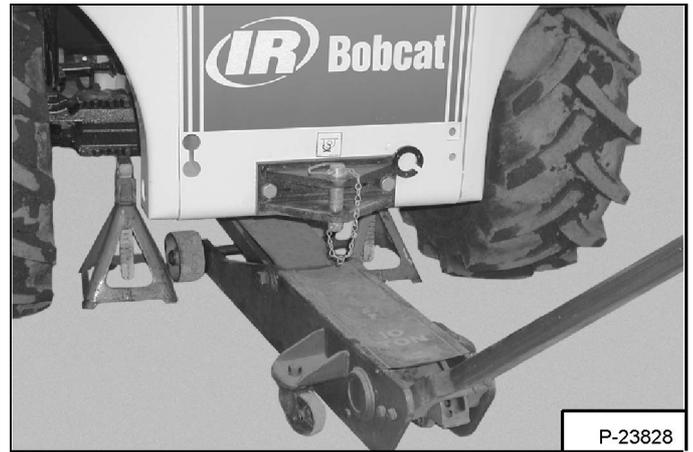
W-2461-0303

Figure 10-10-1



STOP the engine. Put the floor jack under the center of the front axle. Lift the Telescopic Handler and install jackstands [Figure 10-10-1].

Figure 10-10-2



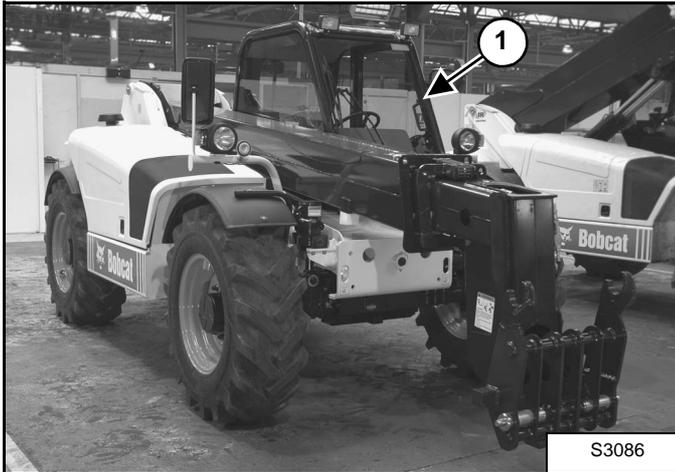
Put the floor jack under the center of the rear axle. Lift the Telescopic Handler and install jackstands [Figure 10-10-2].



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OPERATOR CAB

Figure 10-20-1



The Telescopic Handler has an operator cab (ROPS and FOPS) (Item 1) [Figure 10-20-1] to protect the operator from rollover and falling objects. Check with your dealer if the operator cab has been damaged. Never operate without right window. The seat belt must be worn for roll over protection.

ROPS/FOPS - Roll Over Protective Structure per SAE J1040 and ISO 3471, and Falling Object Protective Structure per SAE J1043 and ISO 3449 (FOPS Level II).

WARNING

Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat. Do not operate without right window. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in serious injury or death.

W-2396-1202

Emergency Exit

Figure 10-20-2



Turn the handle (Inset) [Figure 10-20-2] and push the rear window open. (Models with enclosed cab only.) Exit through the rear window opening [Figure 10-20-2].

OPERATOR CAB (CONT'D)

Cab Door

Figure 10-20-3

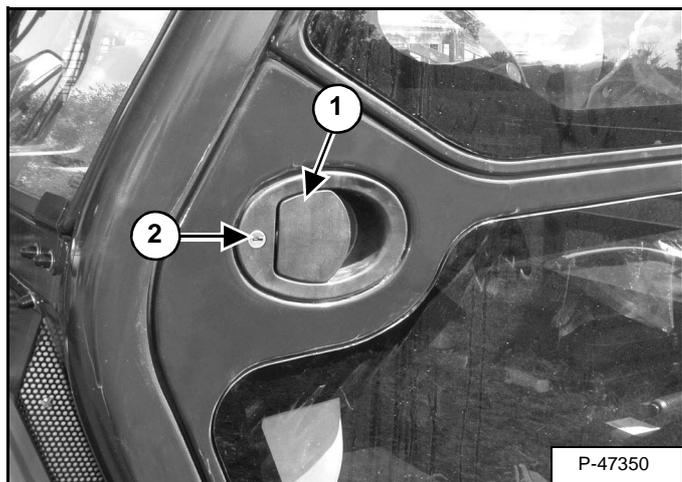
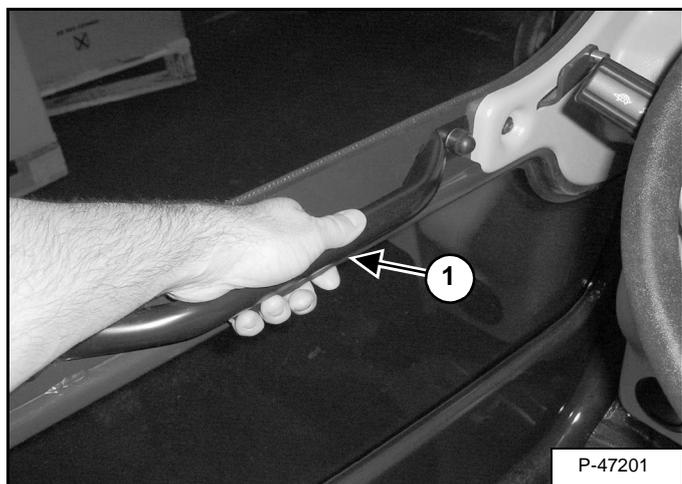


Figure 10-20-4

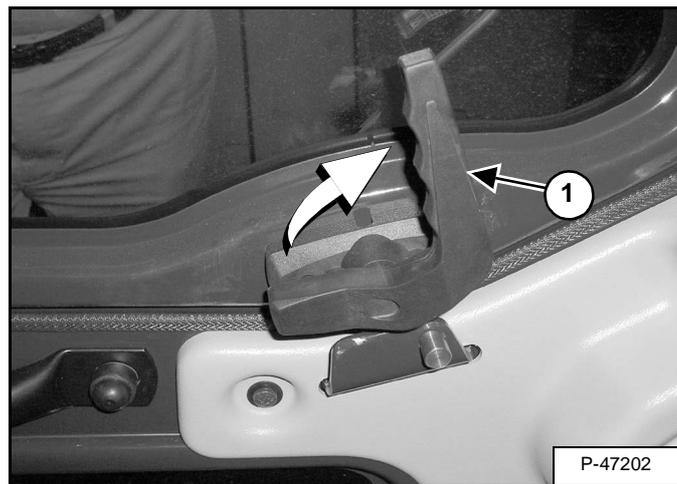


The cab door can be opened from the outside of the cab using the latch (Item 1) [Figure 10-20-3] and open from the inside of the cab when you squeeze the latch (Item 1) [Figure 10-20-4] (as shown).

The cab door can be locked (Item 2) [Figure 10-20-3] with the start key.

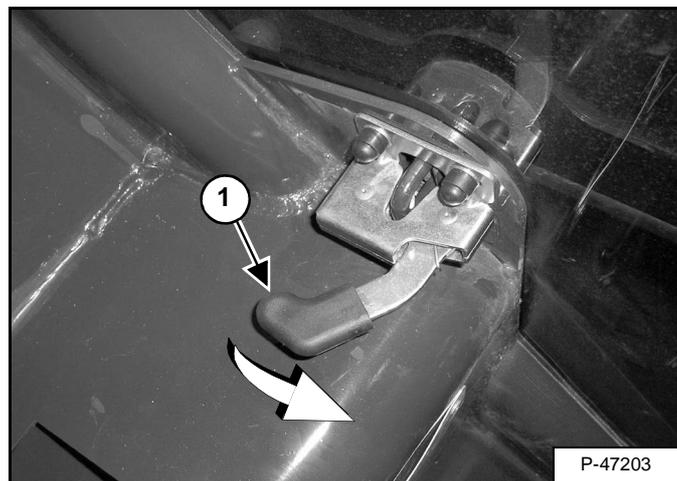
Cab Door Window

Figure 10-20-5



Turn the handle (Item 1) [Figure 10-20-5] (as shown). Push open the window fully until it latches against the cab.

Figure 10-20-6



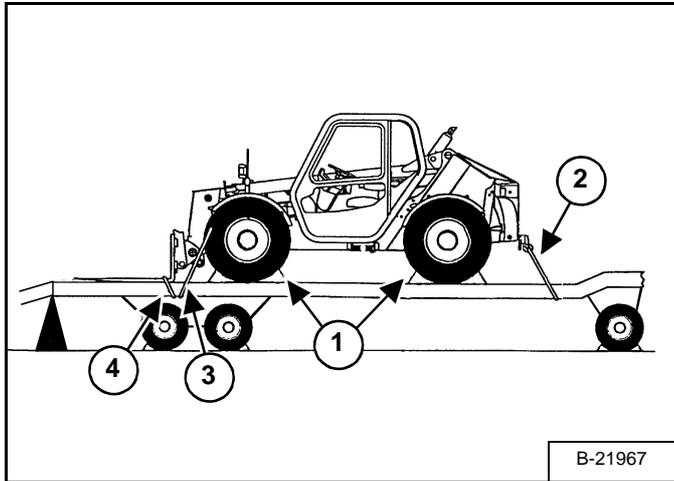
Pull the lever (Item 1) [Figure 10-20-6] inside the cab to disengage the latch and close the window.

TRANSPORTING THE Telescopic Handler

Procedure

Always drive the Telescopic Handler backwards (heavy end up) onto the transport vehicle.

Figure 10-30-1



The rear of the trailer must be blocked or supported [Figure 10-30-1] when loading or unloading the Telescopic Handler to prevent the front end of the trailer from raising up.

Be sure the transport and towing vehicles are of adequate size and capacity. (See "Telescopic Handler SPECIFICATIONS" on page SPEC-10-1 for weight of the Telescopic Handler).

Fasten the Telescopic Handler to the transport vehicle to prevent it from moving during sudden stops or when going up or down slopes.

- Block the wheels (Item 1) [Figure 10-30-1].
- Fasten the machine frame to the transport vehicle (Items 2 & 3) [Figure 10-30-1].
- Attach the forks or bucket attachment to the transport vehicle (Item 4) [Figure 10-30-1].

WARNING

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W-2058-0494



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TOWING THE TELESCOPIC HANDLER

Preparing for towing

The Telescopic Handler can be towed a short distance such as removing it from mud or loading onto a transport vehicle.

The machine must be prepared before towing.

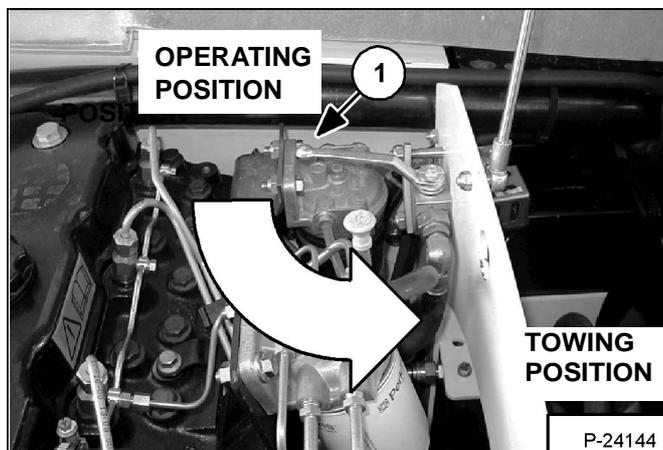
WARNING

- Before towing, the machine must be immobilised using chocks in front of the wheels or any other means independent of the machine. Do not apply the handbrake.
- After this operation, the handbrake will not work and it will no longer be possible to lock the machine with the hydrostatic transmission.

Disengaging the hydrostatic transmission

It is impossible for oil to circulate in a hydrostatic transmission in a closed circuit when the machine is not running, this operation involves making oil circulation possible:

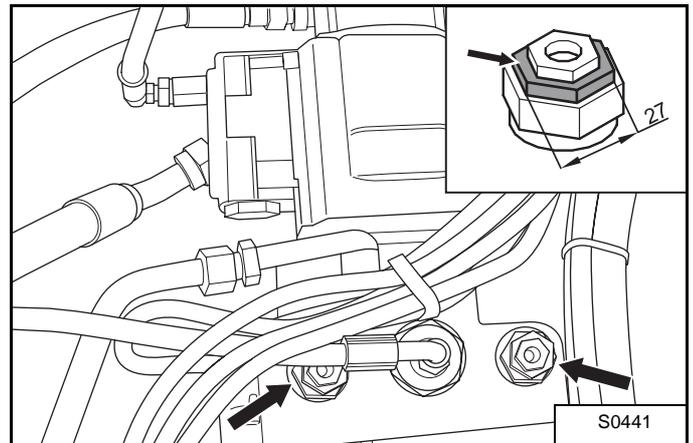
Figure 10-40-2



If the optional tow valve is installed, simply raise the engine cover and turn the valve counterclockwise 90° (Item 1) [Figure 10-40-2] to TOWING POSITION.

Follow the below procedure if the optional tow valve is not installed:

Figure 10-40-3



- Locate the two identical multi-function valves on the hydrostatic transmission pump [Figure 10-40-3]. Each valve has three 6-sided nuts of different sizes.
- Unscrew the middle screw of each valve 2.5 turns. This action will bypass the oil flow from the hydrostatic transmission.

TOWING THE TELESCOPIC HANDLER (CONT'D)

Releasing the handbrake (For S/N 362811001 - 362812000, S/N 362911001 - 368012000):

As the machine's handbrake is tightened by lack of pressure, this operation involves releasing the brake mechanically:

- There are three screws at each end of the central part of the front axle, equally distributed 120° from each other. These screws are driven into a counterbore. [Figure 10-40-4] shows the 3 screws of one of the two sides of the front axle. [Figure 10-40-5] shows the position of the screw around the shaft.

Figure 10-40-4

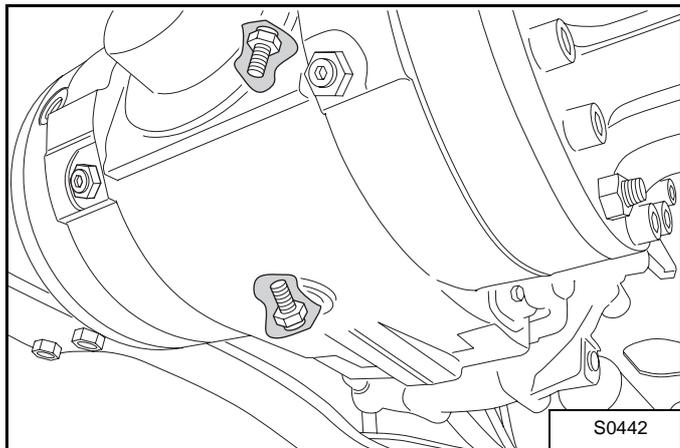
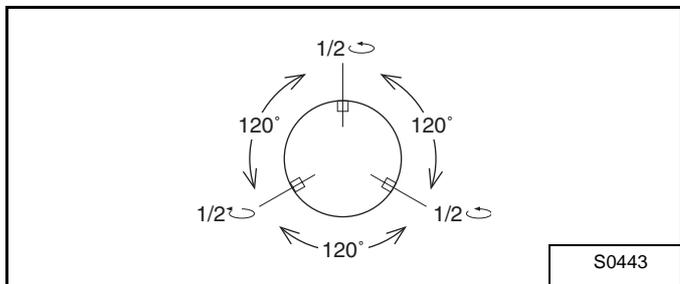


Figure 10-40-5



- The work will first be carried out on the three screws on one side then on the next three.
- Gradually screw (quarter turn by quarter turn) each of the three screws alternatively until they bite (2 - 2.5 turns)

The brakes are now released for towing the vehicle.

Releasing the handbrake (For S/N 362812001 and Above, S/N 362912001 and Above):

As the machine's brakes are tightened by lack of hydraulic pressure (= handbraked position), this operation involves releasing the brakes mechanically. Only the front axle has brakes.

The following procedure describes how to untighten the brakes.

- Release the handbrake. This will open the hydraulic circuit. It is not possible to manually release the brakes when the hydraulic circuit is closed.
- At each end of the central part of the front axle are two screws (see [Figure 10-40-6]). When screwed in, these screws will remove the spring pressure that block the brake disks. [Figure 10-40-7] shows the function of such a screw inside the axle. The work will first be carried out on the two screws on one side of the front axle then on the other side:
 - Loosen the locking nuts of the screws and create some clearance for the screws.
 - Gradually screw (quarter turn by quarter turn) each of the two screws alternatively until they bite.
 - Repeat the above steps on the other side of the front axle.

Figure 10-40-6

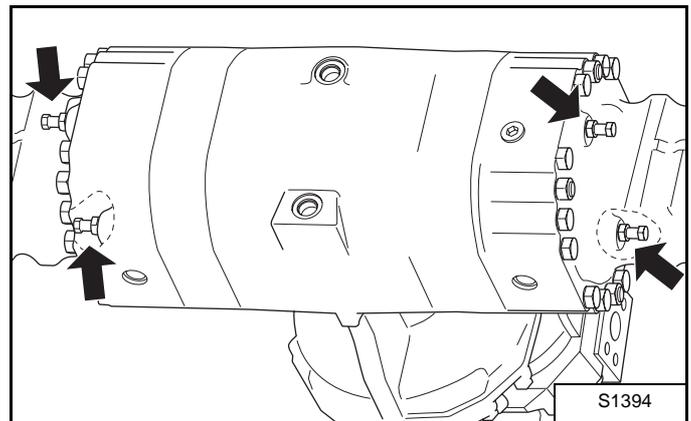
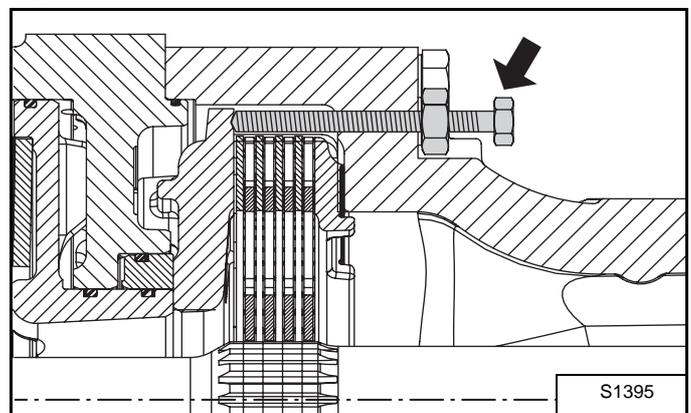


Figure 10-40-7



The brakes are now released for towing the vehicle.

TOWING THE TELESCOPIC HANDLER (CONT'D)

Towing the Telescopic Handler

IMPORTANT

The vehicle will not be able to brake until the screws are returned to their original position.

Tow the Telescopic Handler at slow speed.

After towing:

- Re-engage the hydrostatic transmission by reversing the procedure "Disengaging the hydrostatic transmission" on page 10-40-1.
- Re-activate the brakes by reversing the procedure:
 - for earlier models: "Releasing the handbrake (For S/N 362811001 - 362812000, S/N 362911001 - 368012000):" on page 10-40-2
 - for later models: "Releasing the handbrake (For S/N 362812001 and Above, S/N 362912001 and Above):" on page 10-40-2.



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SERVICE SCHEDULE

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat Telescopic Handler.

 <b style="font-size: 24px; margin-left: 10px;">WARNING	<p>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.</p> <p style="text-align: right; font-size: 10px;">W-2003-0199</p>
--	---

Operation	Hours					
	10	50	200	500	800 (4)	1000 (5)
Diesel engine						
Cleaning the air filter's main cartridge (6)						
Replacing the air filter's main cartridge (6)						
Replacing the air filter's safety cartridge (6)						
Checking the cooling fluid level						
Checking the cooling fluid						
Checking the radiators are clean						
Checking the engine oil level						
Draining and changing oil and filter of the engine						
Replacing the lubricating oil filter cartridge						
Checking the state and tension of the alternator belt (2)						
Replacing the fuel filter cartridge						
Hydraulic system						
Checking the hydraulic oil level						
Draining and changing the hydraulic oil						
Replacing the hydraulic filter cartridge						
Replacing the hydraulic oil tank vent valve						
Checking the tightness of hydraulic lines and connections						
Mechanical transmission						
Checking the condition of tyres						
Checking the tyre pressure						
Checking the tightness of wheel nuts (1)						
Checking the vent valves on the two axles are clean						
Lubricating the rear axle rolling element bearings						
Lubricating the axle steering pivots						
Checking the oil level in the front axle central casing				monthly		
Checking the oil level in the reducer box				monthly		
Checking the oil level in the rear axle central casing				monthly		
Checking the oil level on both axles' gear reducers						
Draining and changing the oil in the front axle central casing (3)						
Draining and changing the oil in the reducer box (3)						
Draining and changing the oil on the rear axle central casing (3)						
Draining and changing the oil on two axles gear reducers (3)						
Structure						
Cleaning dust out of the cab filter						
Replacing the cab filter						
Lubricating the hinge pins						
Lubricating the boom's guide rail shoes						
Checking the tightness of screws and bolts						
Checking wear on the boom's guide rail shoes						
Checking wear on flanges and hinge pins						
Electrical system						
Checking the battery fluid level						
Checking the condition of fuses, diodes and relays						
Checking the working order of controls, lighting and signalling						
Checking the working order of indicator lights, indicators and controls						
Checking the condition of electric connections						

- (1) Check wheel nut torque every 8 hours for the first 24 hours.
 (2) First maintenance after 50 hours then according to the table.
 (3) Replace the first time after 100 hrs, then according to the table.

- (4) Or every 12 months.
 (5) Or every 12 months.
 (6) Frequency may vary in certain dusty environments.

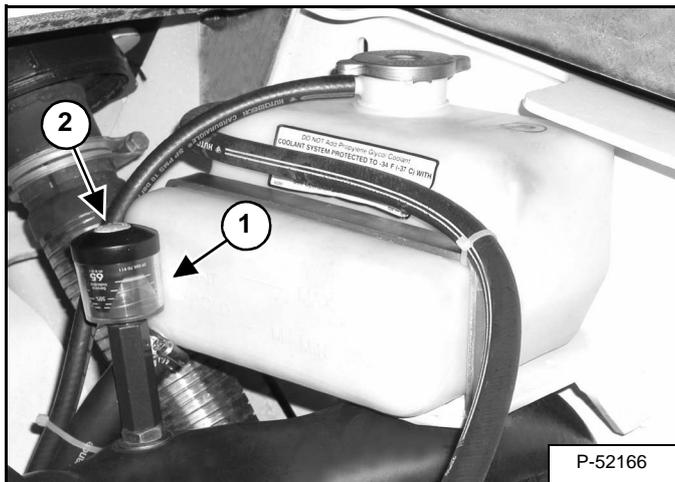


Bobcat®

AIR CLEANER SERVICE

Replacing Filter Element

Figure 10-60-1

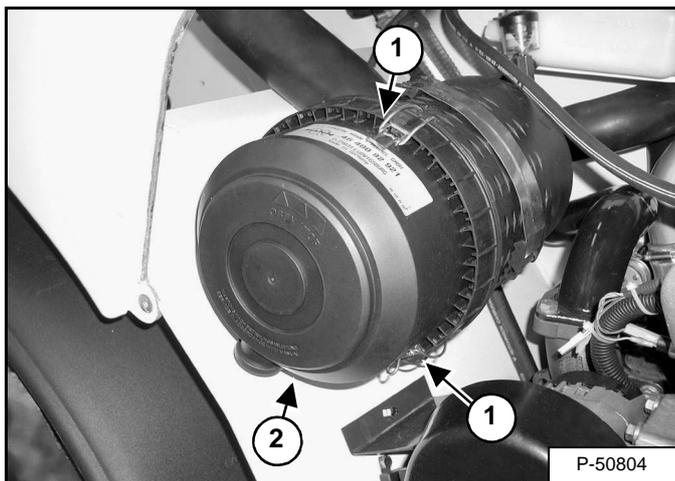


Replace the large (outer) filter element only when the red ring shows in the window of the condition indicator (Item 1) [Figure 10-60-1].

NOTE: Before replacing the filter element, push the button on the condition indicator (Item 2) [Figure 10-60-1]. Start the engine. If the red ring does not show, do not replace the filter element.

Replace the inner filter every third time the outer filter is replaced or when the red ring still shows in the indicator window after the outer filter has been replaced.

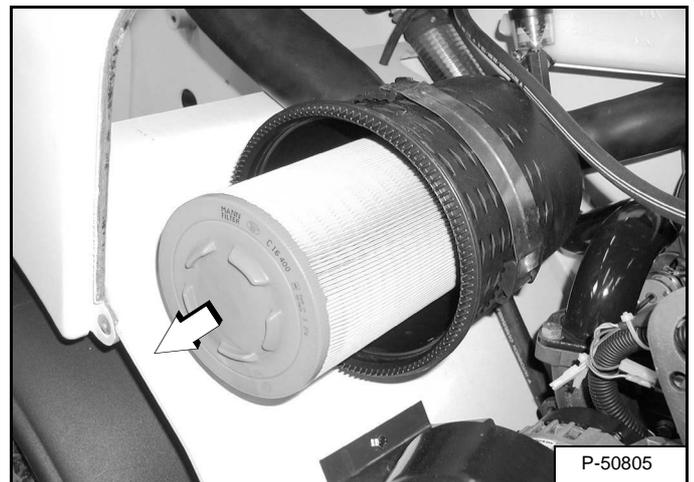
Figure 10-60-2



Loosen the filter housing clamps (Item 1) [Figure 10-60-2].

Release the fastener and remove the cover (Item 2) [Figure 10-60-2].

Figure 10-60-3



Pull the element straight out [Figure 10-60-3].

NOTE: Make sure all sealing surfaces are free of dirt and debris.

Install a new outer element.

Install the dust cover and fasten [Figure 10-60-3].

Connect the filter housing clamps.

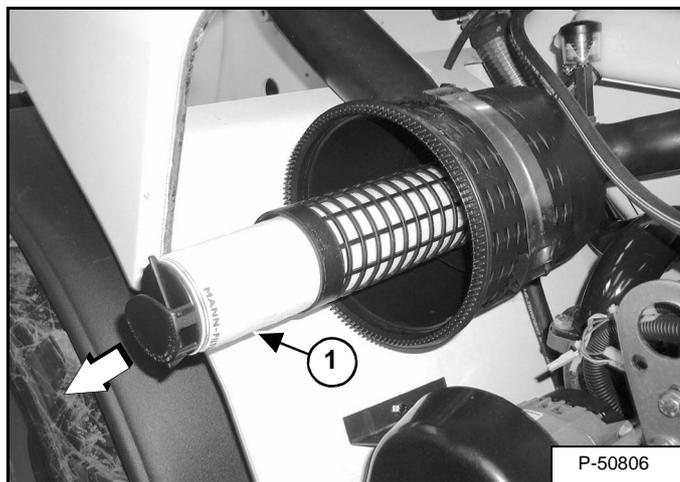
Replacing Filter Element (Cont'd)

Inner Filter

Remove the outer element.

NOTE: Make sure all sealing surfaces are free of dirt and debris.

Figure 10-60-4



Remove the inner filter (Item 1) [Figure 10-60-4] and install a new element.

Install the outer element.

Install the dust cover and fasten [Figure 10-60-4].

Connect the filter housing clamp (Item 1) [Figure 10-60-4].