

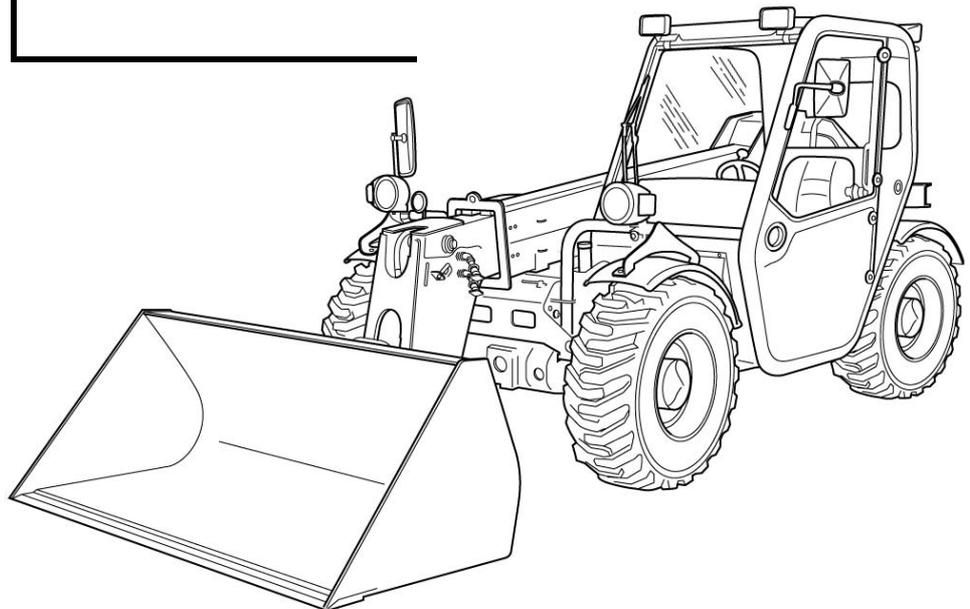
T2250

**S/N A859 11001 &
Above**



Bobcat®

**SERVICE
MANUAL**



Product: 2008 Bobcat T2250 Telescopic Handler Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/2008-bobcat-t2250-telescopic-handler-service-repair-workshop-manual/>



Sample of manual. Download All 771 pages at:
<https://www.arepairmanual.com/downloads/2008-bobcat-t2250-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**.



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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

HVAC

SPECIFICATION

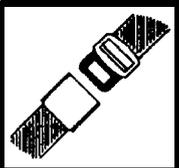
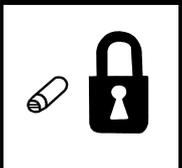
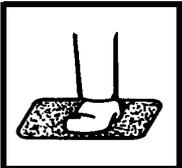
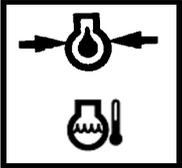
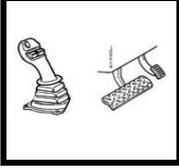
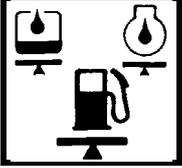


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FOREWORD

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:

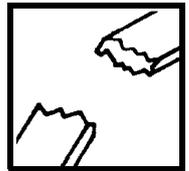
- | | | | |
|---|---|--|---|
| 1. Check that ROPS/FOPS (including right side window) is in good condition and is not modified. |  | 8. The parking brake must function correctly. |  |
| 2. Check that ROPS mounting hardware is tightened and is Bobcat approved. |  | 9. Enclosure door latches must open and close freely. |  |
| 3. The seat belt must be correctly installed, functional and in good condition. |  | 10. Attachment locking pins must function correctly and be in good condition. Bob-Tach wedges and linkages (if equipped) must function correctly and be in good condition. |  |
| 4. Check boom stop, replace if damaged. |  | 11. Safety treads must be in good condition. |  |
| 5. Machine signs (decals) must be legible and in the correct location. |  | 12. Check for correct function of indicator lamps and gauges. |  |
| 6. Joystick control lever and foot pedals must return to neutral. |  | 13. Check hydraulic fluid level, engine oil level and fuel supply. |  |
| 7. Check for correct function of the work lights. |  | 14. Inspect for fuel, oil or hydraulic fluid leaks. |  |

FW VH-0308 SM

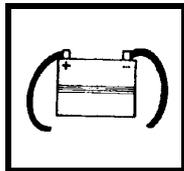
15. Lubricate the Telescopic Handler.



20. Inspect for loose or broken parts or connections.



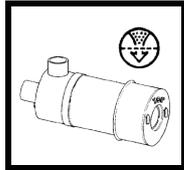
16. Check the condition of the battery and cables.



21. Check for any field modification not completed.



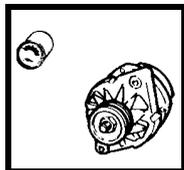
17. Inspect the air cleaner for damage or leaks. Check the condition of the element.



22. Operate the machine and check all functions.



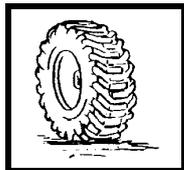
18. Check the electrical charging system.



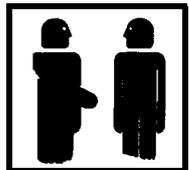
23. Check function or condition of all equipped options and accessories (examples: back-up alarm, fire extinguisher, rotating beacon, front stabilizers, etc.).



19. Check tires for wear and pressure. Use only approved tires.



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



**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.

FW VH-0308 SM

SAFETY INSTRUCTIONS



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



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

I-2019-0284



The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107



The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

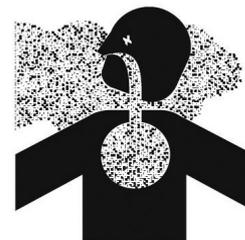
W-2044-1107

The following publications 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 is in safe operating condition.

- The Operation & Maintenance Manual delivered with the machine or attachment contains 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.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.

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.



Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust.

SI VH-0308 SM

FIRE PREVENTION



Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

SI VH-0308 SM

FIRE PREVENTION (CONT'D)

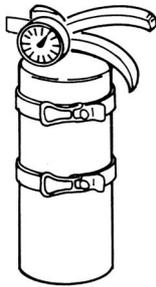
Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers



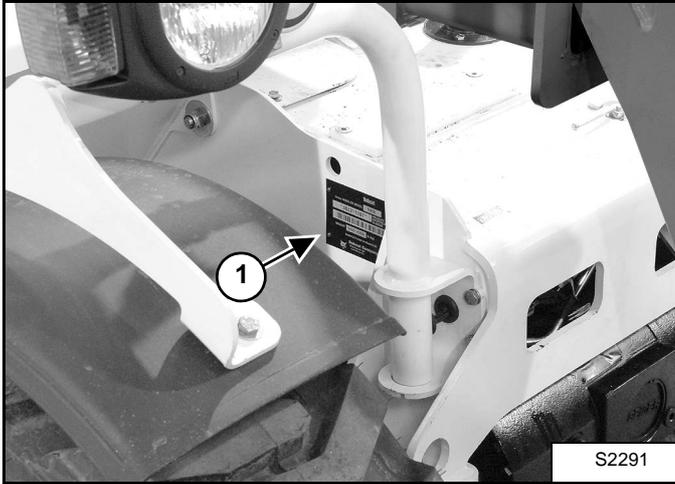
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SI VH-0208

SERIAL NUMBER LOCATION

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.

Figure 1



S2291

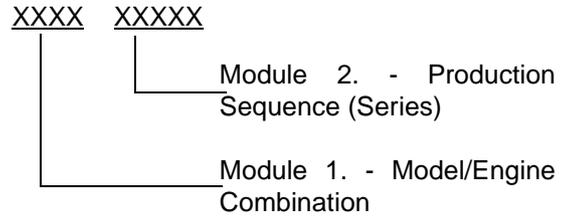
Figure 2



S7082

The Telescopic Handler serial number plate is located on the right front side of the chassis (Item 1) [Figure 1] & [Figure 2].

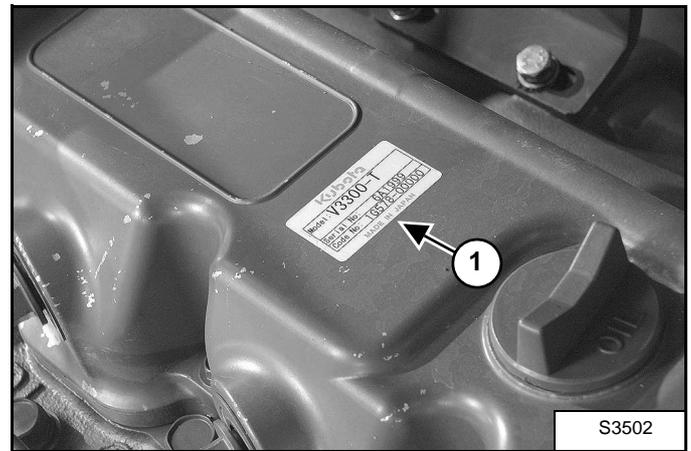
Explanation of Telescopic Handler Serial Number:



1. The four digit Model/Engine Combination Module number identifies the model number and engine combination.
2. The five digit Production Sequence Number identifies the order which the Telescopic Handler is produced.

Engine Serial Number

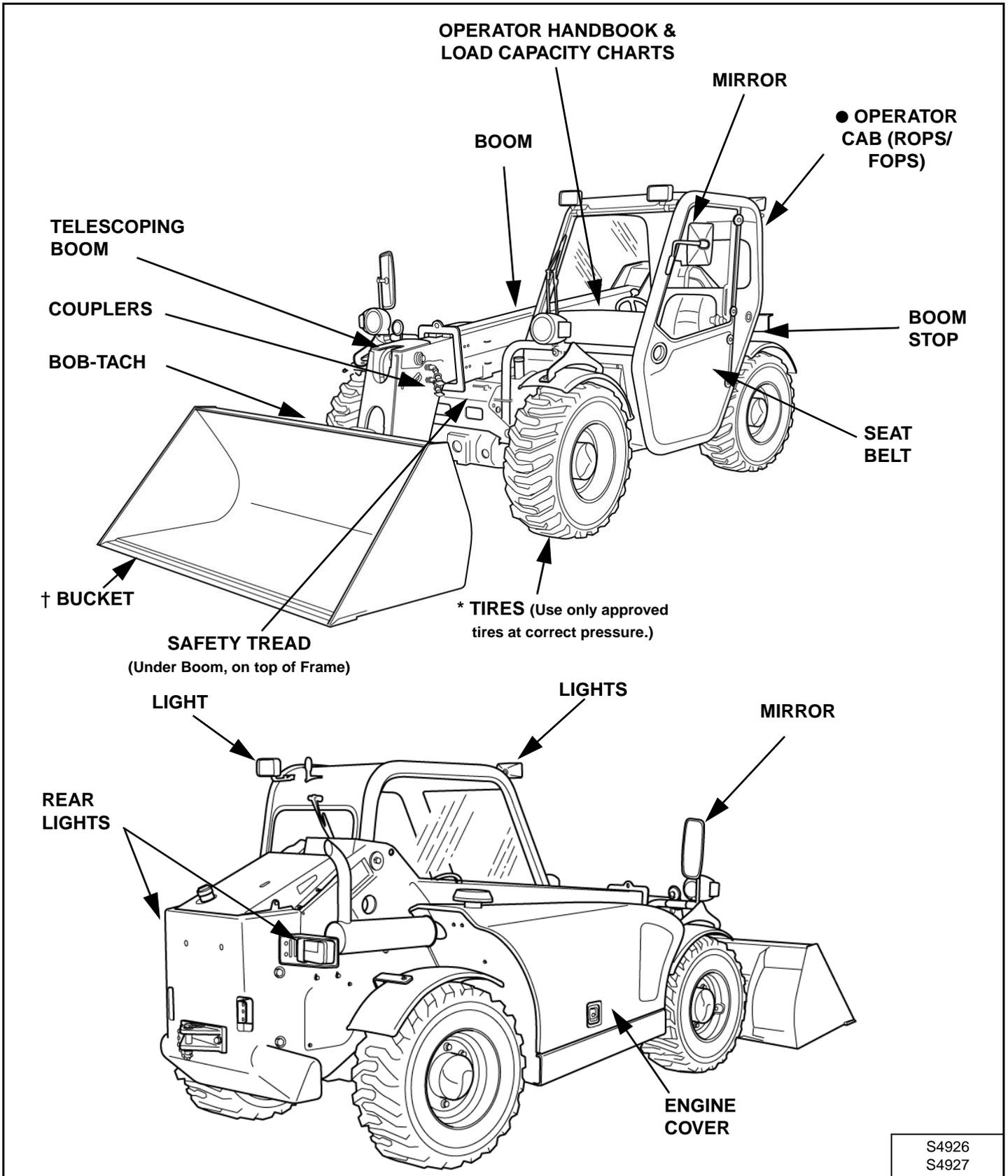
Figure 3



S3502

The engine serial number can be found on top of the cylinder block (Item 1) [Figure 3]. Always use the full number when ordering replacement parts.

BOBCAT TELESCOPIC HANDLER IDENTIFICATION



- * TIRES - Tires shown may not be standard. The machine is factory equipped with standard tires. Other tires are available.
- ROPS, FOPS - Roll Over Protective Structure, per ISO 3471, and Falling Object Protective Structure, per ISO 3449, Level I. Level II is available.
- † Bucket - Many Buckets and other Attachments are available.

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LIFTING AND BLOCKING THE TELESCOPIC HANDLER

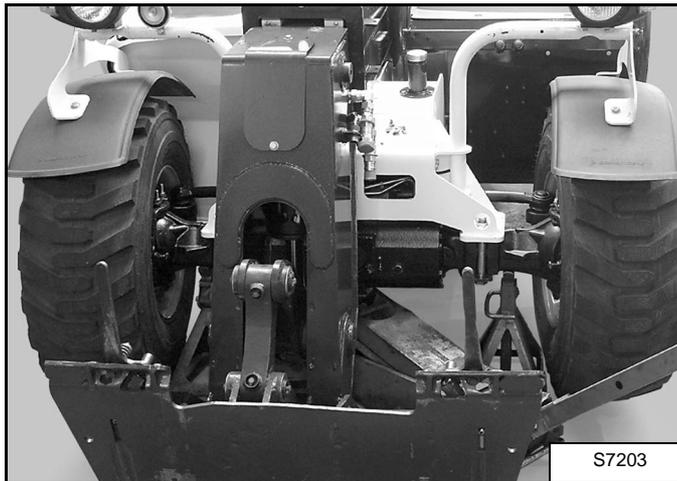
Procedure

WARNING

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

W-2017-0286

Figure 10-10-1



Always park the machine on a level surface.

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



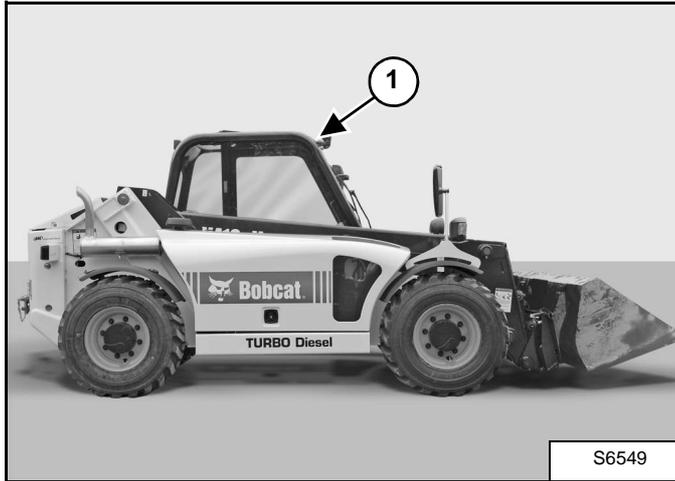
Put the floor jack under the center of the rear axle. Lift the Telescopic Handler and install jackstands [Figure 10-10-2].



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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.

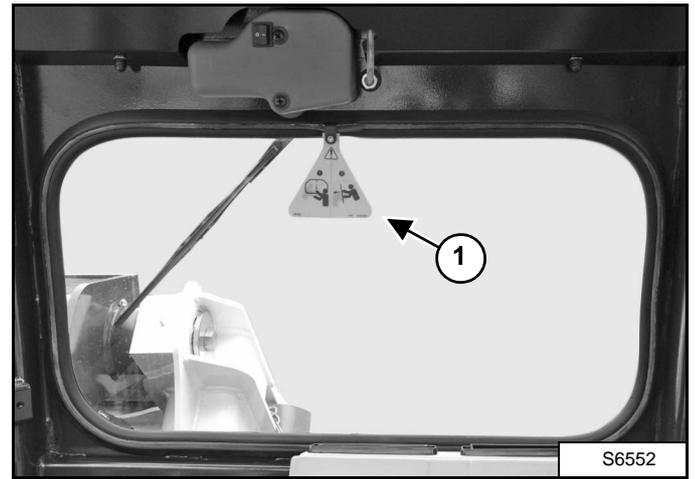
WARNING

Never modify operator cab or canopy 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 or canopy 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



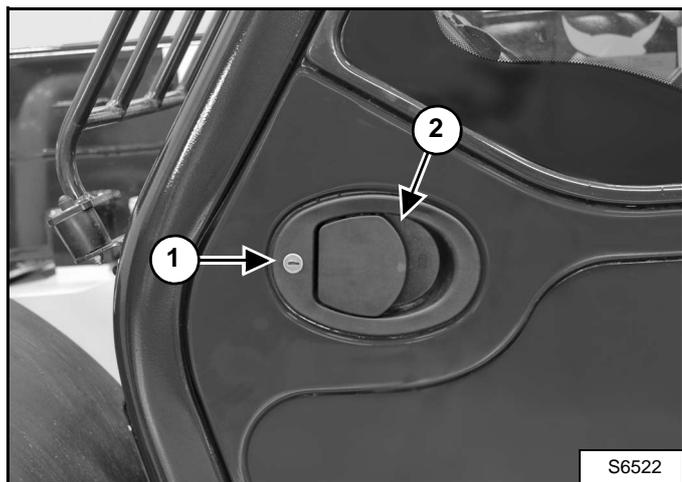
Pull the tag on top of the rear window (Item 1) [Figure 10-20-2] to remove the rubber cord.

Push the rear window out of the rear of the operator cab. (Models with enclosed cab only.)

Exit through the rear of the operator cab.

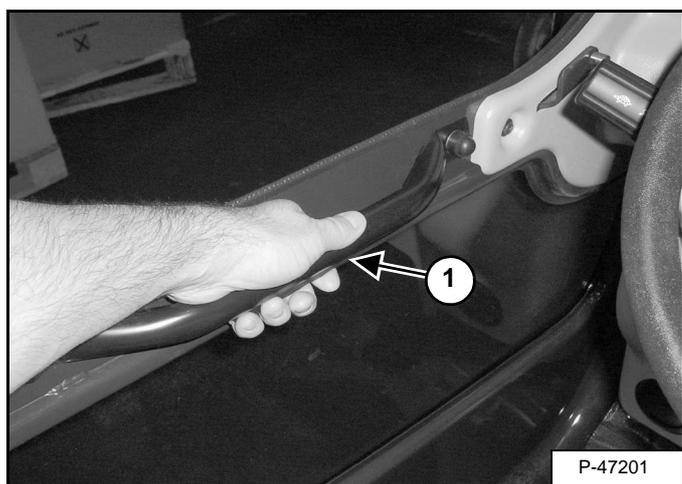
Cab Door

Figure 10-20-3



The cab door can be locked (Item 1) [Figure 10-20-3] with the start key.

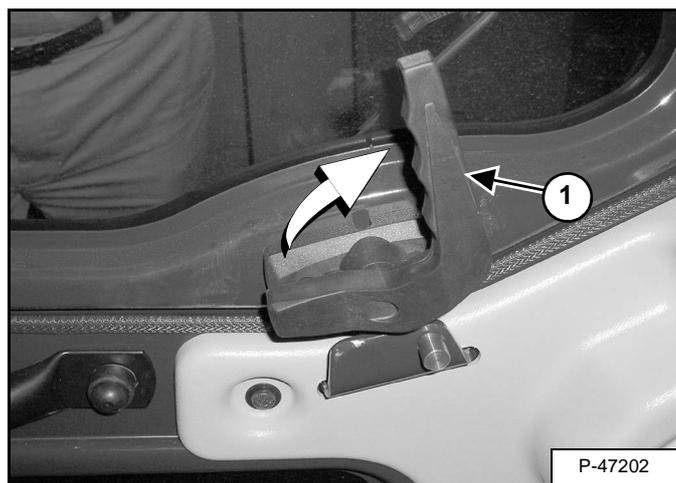
Figure 10-20-4



The cab door can be opened from the outside of the cab using the latch (Item 2) [Figure 10-20-3] and from the inside of the cab by squeezing the latch (Item 1) [Figure 10-20-4] (as shown).

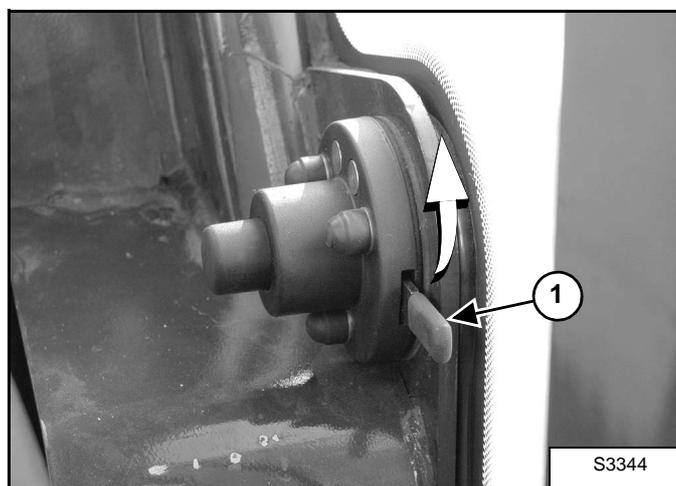
Cab Door Window

Figure 10-20-5



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

Figure 10-20-6



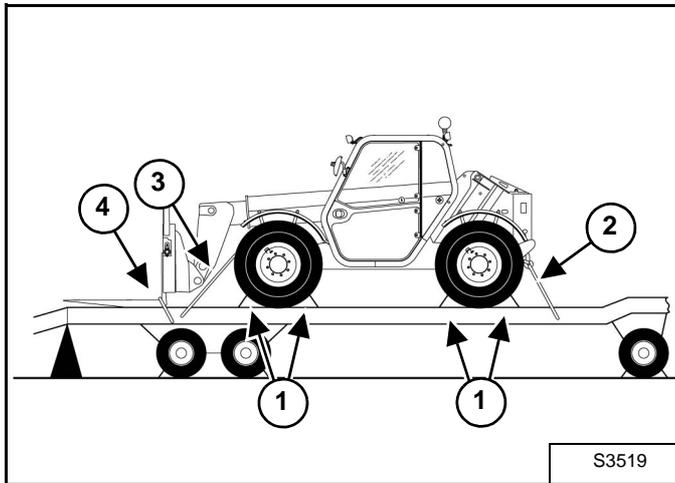
Pull up the lever (Item 1) [Figure 10-20-6] inside the cab to disengage the latch and close the window.

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. For the weight of Telescopic Handler, (See TELESCOPIC HANDLER TELESCOPIC TOOL CARRIER (TTC) SPECIFICATIONS on Page SPEC-10-1.) 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

AVOID SERIOUS INJURY OR DEATH

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.

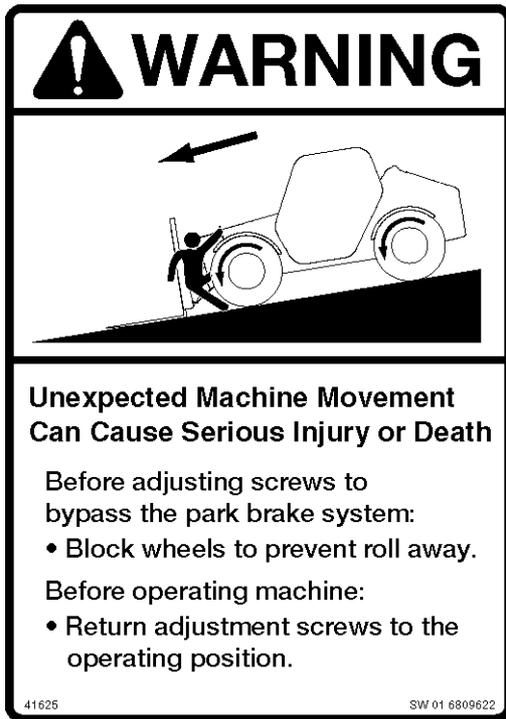
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TOWING THE TELESCOPIC HANDLER

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



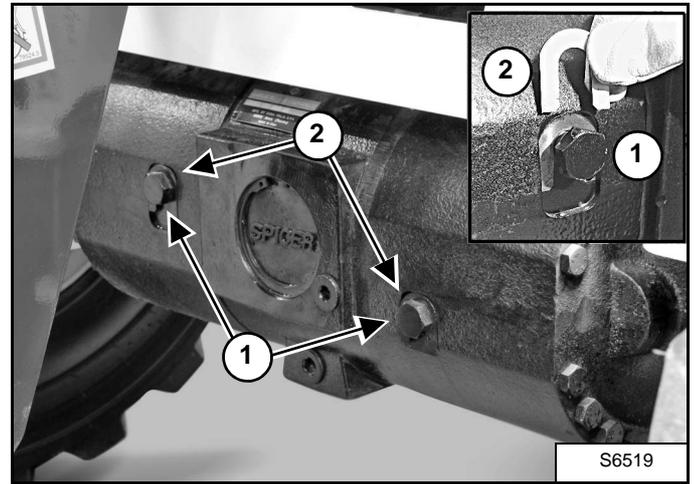
Block the wheels to prevent the machine from rolling.

Releasing The Brake Discs

The brakes are engaged by spring pressure and released by hydraulic pressure. The parking brake must be released manually before towing (if the engine can not be started to release the brakes or there is no hydraulic pressure). Only the front axle has brakes.

The following procedure describes how to release the brakes:

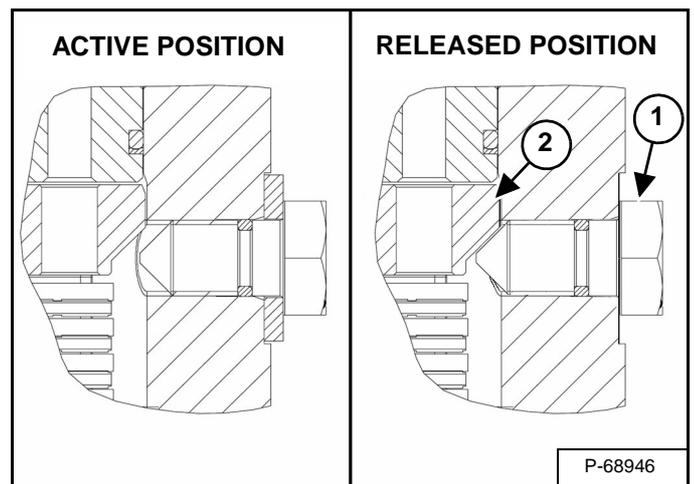
Figure 10-40-1



Loosen the four bolts (Item 1) until the slotted spacers (Item 2) [Figure 10-40-1] can be removed from under the bolt heads (the bolts and spacers are located on both the front and rear side of the front axle).

Remove the spacers (Item 2) [Figure 10-40-1] and save for reuse.

Figure 10-40-2

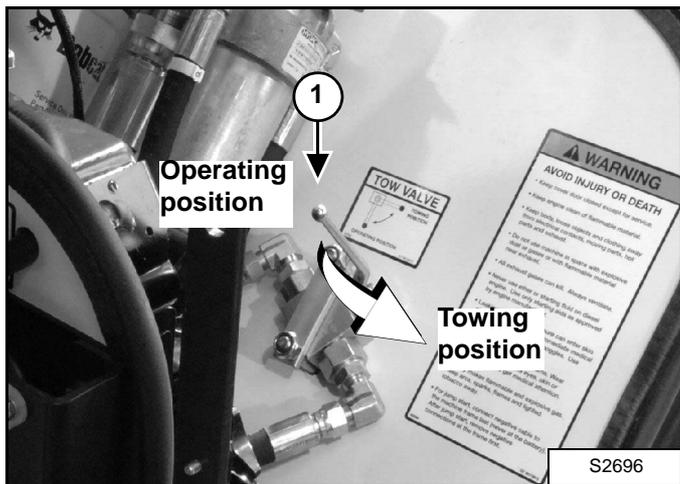


After removing the spacers, evenly tighten the front and rear bolts (Item 1) to hold the parking brake piston (Item 2) [Figure 10-40-2] in the released position.

TOWING THE TELESCOPIC HANDLER (CONT'D)

Towing

Figure 10-40-3

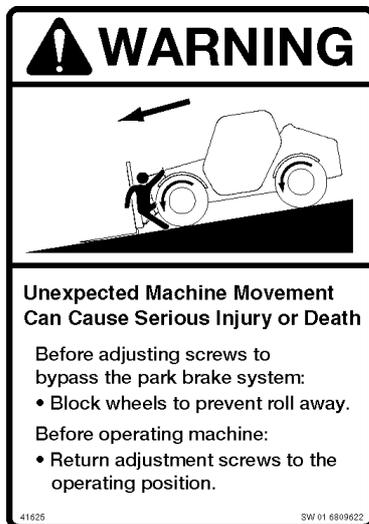


Raise the engine cover.

Turn the tow valve (Item 1) [Figure 10-40-3] counterclockwise 90 degrees to TOWING POSITION.

Tow the Telescopic Handler at a slow speed.

NOTE: The vehicle will not be able to brake until the four bolts (Item 1) [Figure 10-40-3] & [Figure 10-40-3] are returned to their original position.



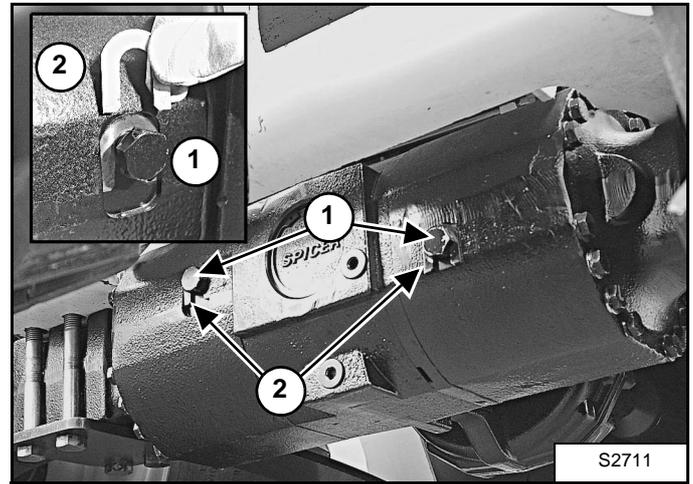
Block the wheels to prevent the machine from rolling.

After towing is completed, turn the tow valve (Item 1) [Figure 10-40-3] clockwise 90 degrees to the OPERATING POSITION.

NOTE: If the tow valve is not returned to the operating position, the machine will not be able to be driven forward or backward.

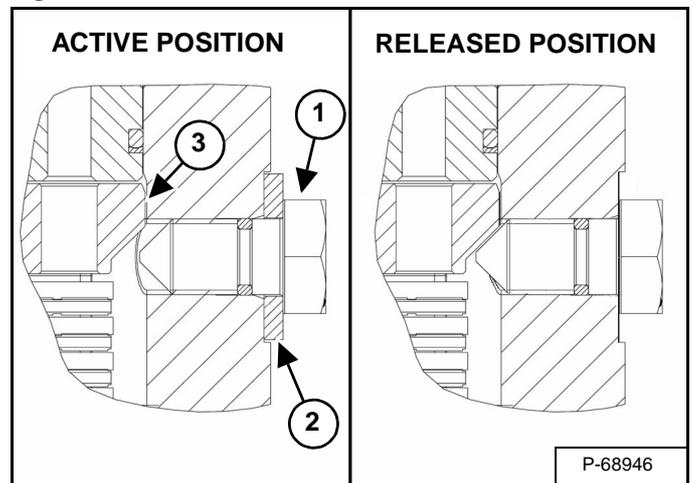
Engaging The Brake Discs

Figure 10-40-4



Loosen the four bolts (Item 1) until the spacers (Item 2) [Figure 10-40-4] can be installed under the bolt heads (the bolts and washers are located on both the front and rear side of front axle).

Figure 10-40-5



Evenly tighten the front and rear bolts (Item 1) to hold the spacers (Item 2) [Figure 10-40-4] & [Figure 10-40-5].

Tighten the bolts to 70-85 ft.-lb. (95-115 N•m) torque.

This will allow the parking brake piston (Item 3) [Figure 10-40-5] to be active again.

SERVICE SCHEDULE

Chart

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.



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

SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	10	50	100	250	500	1000
Engine Oil	Check the oil level and add as needed. Do not overfill.	■					
Hydraulic Fluid	Check the fluid level and add as needed.	■					
Safety Signs, Safety Tread and Mirrors	Check for damaged signs (decals), safety treads, load charts and mirrors. Replace if damaged or missing.						
Fuel Filter	Remove the trapped water.						
Tires	Check for damaged tires and correct air pressure. Inflate to MAXIMUM pressure shown on sidewall of the tire.						
Seat Belt & Restraint Bar (LORS™) (If Equipped)	Check the condition of the seat belt. Check the restraint bar (If equipped). Clean dirt and debris from moving parts.						
Brakes and Controls	Check for function. Service as necessary.						
Gauges, Horn and Backup Alarm	Check for function. Repair or replace as necessary.						
General	Check for loose or broken parts, damaged cab, seat belt and instrument operations. Check for installation of right hand cab window. Clean mirrors and windows. Repair or replace as needed.						
Engine Cooling System	Clean debris from oil cooler, radiator and air conditioner condenser. Check coolant level COLD in reservoir and add 50% ethylene glycol premixed with 50% water as needed. Check cooling system for leaks.						
Engine Air Filter	Check condition indicator. Service only when required. Do not use compressed air to clean elements. Empty dust cup.						
Engine Air Intake System	Check for leaks and damaged components.						
Bob-Tach Pivot, Wedges, Cylinder and Link Pin Pivots	Lubricate with multi-purpose lithium based grease.						
Axle Steering Pivot Points	Lubricate with multi-purpose lithium based grease.		◆				
Rear Axle Pivot	Lubricate with multi-purpose lithium based grease.		◆				
Boom and Cylinder Pivot	Lubricate with multi-purpose lithium based grease.		◆				
Hydraulic Hoses and Tubelines	Check condition of hoses, tubelines and connections. Repair or replace as needed						
Universal Joints and Slip Yoke on Drive Shaft	Lubricate with multi-purpose lithium based grease.						
Cab Filter	Clean dust out of the cab filter. Replace every 500 hours.		●				
Battery	Check electrolyte level. Add distilled water as needed.			◆			
Wheel Nuts	Check wheel nut torque. Tighten as needed [265 ft.-lb. (360 N•m)].	†					
Fuel Filter	Replace the fuel filter element. Use the genuine Bobcat Filter.		●				
Engine / Hydro. Drive Belt	Check for wear or damage. Check tension and adjust or replace as needed.						
Alt. & Air Cond. Belt (If Equipped)	Check belt tension and adjust as needed.						
LORS™ or door hinges (If Equipped)	Lubricate restraint bar spring pivot or door hinges with multi-purpose lithium based grease.						
Hydraulic/Hydrostatic Oil Filters	Replace the hydraulic/hydrostatic oil filter elements. Use a genuine Bobcat filter.		●				
Engine Oil and Filter	Replace the engine oil and filter. Use a genuine Bobcat filter.		●				
Cab Filter	Replace the cab filter.						
Axle Fluids	Check all fluid levels.			◆			
Front & Rear Axle Fluid	Replace the axle oil in the central casings.			◆		○	
Gear Box Fluid	Replace the gear box (drive box) fluid.			◆		○	
Wheel Gear Fluid	Replace the wheel gear fluid.			◆		○	
Hydraulic Fluid	Replace the hydraulic fluid.						
Engine Coolant	Flush cooling system and replace coolant with 50% ethylene glycol premixed with 50% water. Check freeze protection of antifreeze -34°F (-30°F)						
Telescopic Boom Wear Blocks	Check for wear and adjust as needed. Replace if necessary.						
Pivot Pins and Bushings	Check for wear on the pivot pins and bushings.						
Breathers	Clean gear box, axle housing, and hydraulic tank breathers. Replace as needed.						

† Check wheel nut torque every 8 hours for the first 24 hours.

● Perform service first time at 50 hours, then as indicated in chart.

◆ Perform fluid level check first time at 100 hours, then as indicated in chart.

○ Replace fluid first at 500 hours, then as indicated in chart.

□ or every 6 months.

■ or every 12 months.



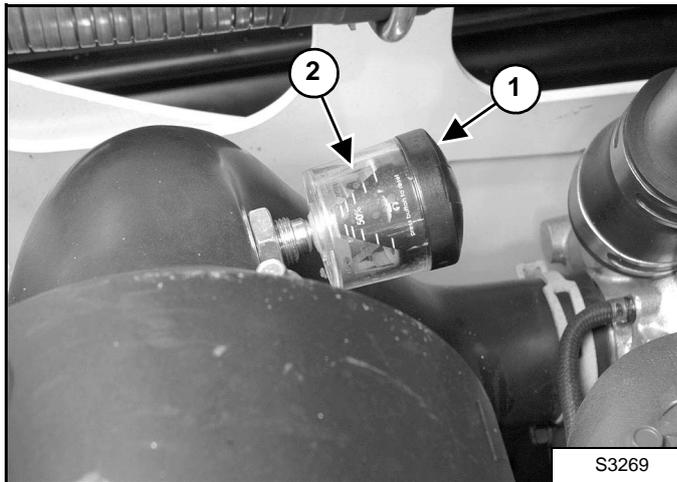
Bobcat®

AIR CLEANER SERVICE

Replacing The Filter Element

Outer filter

Figure 10-60-1

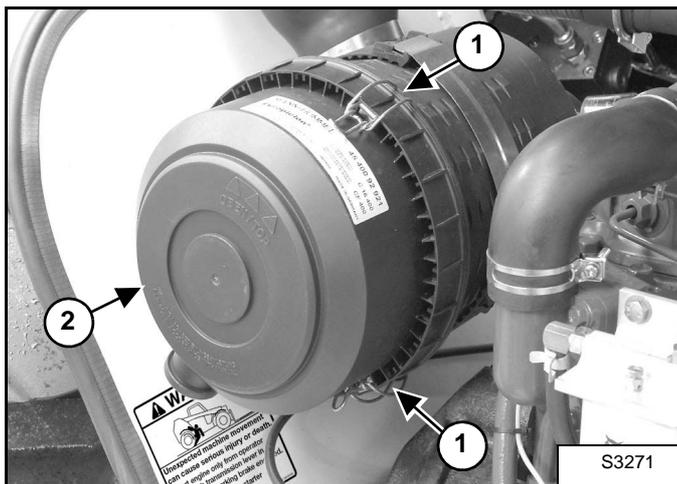


Replace the large (outer) filter element only when the red ring shows in the window of the condition indicator (Item 1) [Figure 10-60-1].

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.

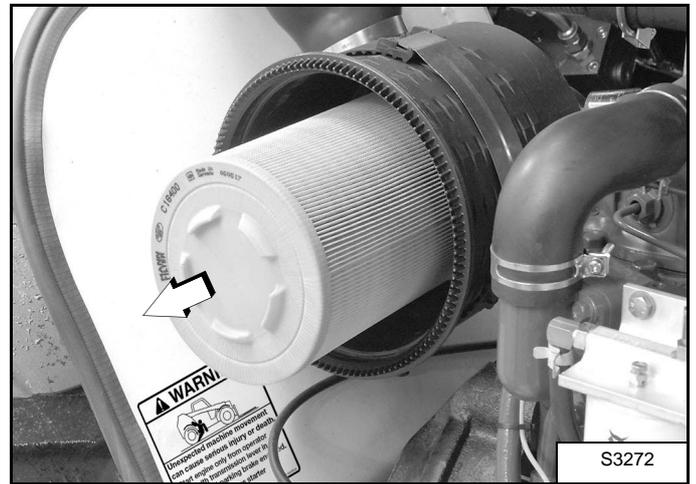
Figure 10-60-2



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

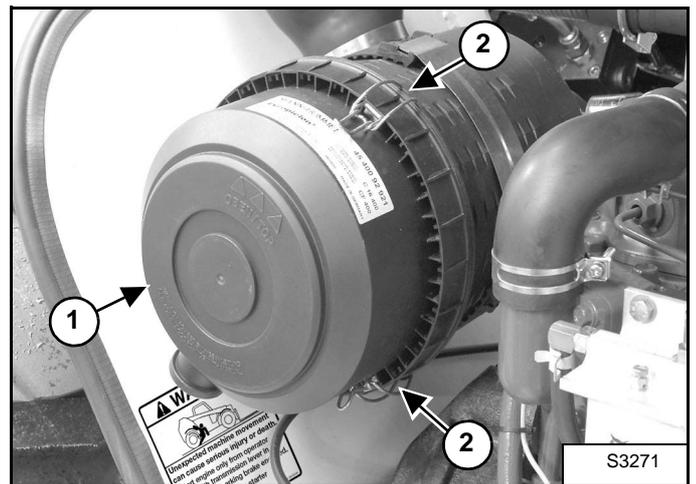


Pull the element straight out [Figure 10-60-3].

NOTE: Make sure all sealing surfaces are free of dirt and debris. Do not use compressed air to remove dirt or debris.

Install a new outer element.

Figure 10-60-4



Install the dust cover (Item 1) [Figure 10-60-4] and fasten.

Connect the filter housing clamps (Item 2) [Figure 10-60-4].

AIR CLEANER SERVICE (CONT'D)

Product: 2008 Bobcat T2250 Telescopic Handler Service Repair Workshop Manual

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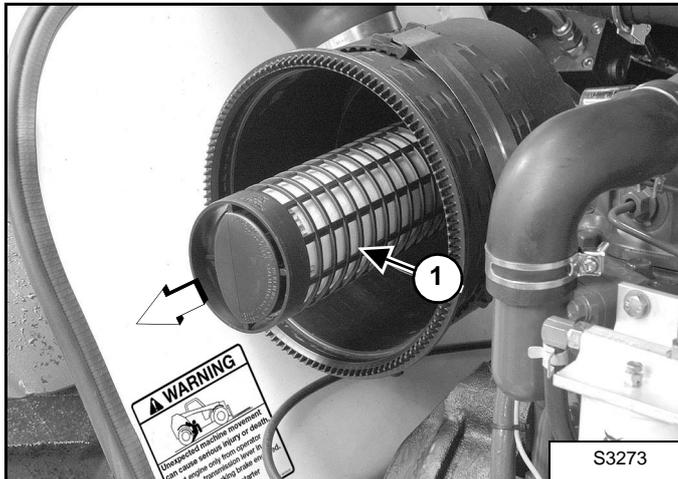
Replacing The Filter Element (Cont'd)

Inner Filter

Remove the outer element.

NOTE: Make sure all sealing surfaces are free of dirt and debris. Do not use compressed air to remove dirt or debris

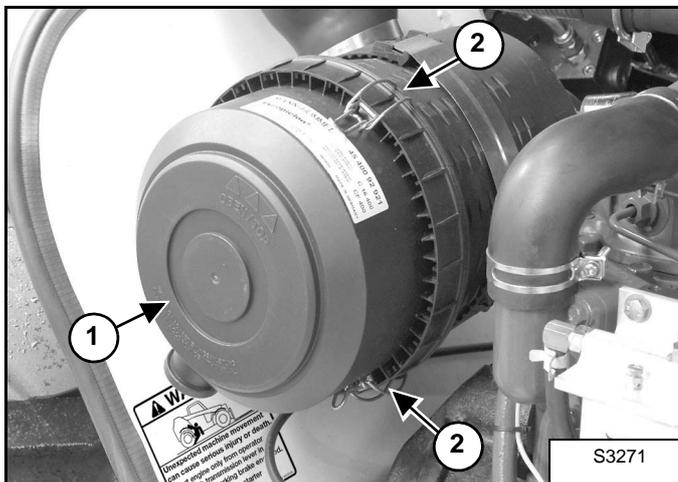
Figure 10-60-5



Remove the inner filter (Item 1) [Figure 10-60-5] and install a new element.

Install the outer element.

Figure 10-60-6



Install the dust cover (Item 1) [Figure 10-60-6] and fasten.

Connect the filter housing clamps (Item 2) [Figure 10-60-6].

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