

TURBO
HIGH FLOW

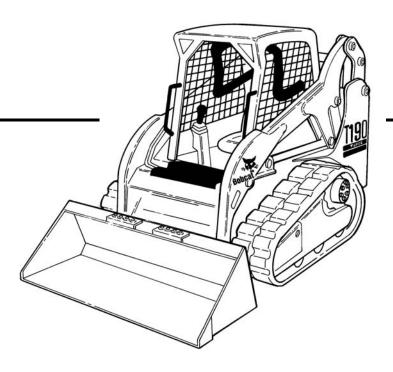


Bobcat®

Service Manual

G Series

S/N 527011001 & Above S/N 527911001 & Above S/N 527711001 & Above S/N 527811001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)



MAINTENANCE SAFETY

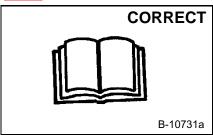


Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

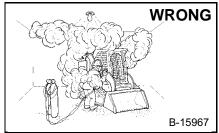
W-2003-0903

A

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 the Bobcat Compact Track Loader without instructions.



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.

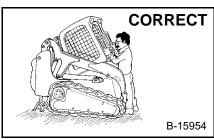


A Stop, cool and clean engine of flammable materials before checking fluids.

Never service or adjust loader with the engine running unless instructed to do so in the manual.

Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.

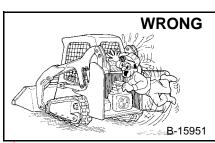
Never fill fuel tank with engine running, while smoking or when near open flame.



Use the correct procedure to lift or lower operator cab.



Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.

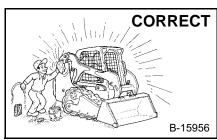


Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.

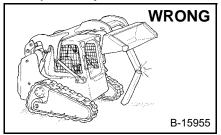
Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

type of welding.

Keep rear door closed except for service, Close and latch door before operating the loader.



Cleaning and maintenance are required daily.



Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.

Never modify equipment or add attachments not approved by Bobcat Company.



Lead-acid batteries produce flammable and explosive gases. Keep arcs, sparks, flames and

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.** The Service Safety Training Course is available from your Bobcat dealer.

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ACS-ADVANCED CONTROL SYSTEM BICS-BOBCAT INTERLOCK CONTROL SYSTEM

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SAFETY & MAINTENANCE

HYDRAULIC SYSTEM

HYDROSTATIC SYSTEM

DRIVE System

MAIN FRAME

ELECTRICAL SYSTEM & ANALYSIS

ENGINE SERVICE

HVAC

SPECIFICATIONS

FOREWORD

This manual is for the Bobcat loader mechanic. It provides necessary servicing and adjustment procedures for the Bobcat loader 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 loader has had service or repair:

 Check that the ROPS/FOPS (Including side screens) is in good condition and is not modified.



9. The parking brake must function correctly.



2. Check that ROPS mounting hardware is tightened and is Bobcat approved.



Enclosure door latches must open and close freely.



The seat belt must be correctly installed, functional and in good condition.



11. Bob-Tach wedges and linkages must function correctly and be in good condition.



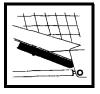
4. The seat bar must be correctly adjusted, clean and lubricated.



12. Safety treads must be in good condition.



5. Check lift arm support device, replace if damaged.



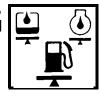
 Check for correct function of indicator lamps (Optional on some models).



6. Machine signs must be legible and in the correct location.



 Check hydraulic fluid level, engine oil level and fuel supply.



7. Steering levers and foot pedals must return to neutral.



Inspect for fuel, oil of hydraulic fluid leaks.



8. Check for correct function of the work lights



16. Lubricate the loader.



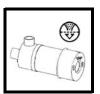
17. Check the condition of the battery and cables.



22. Operate the loader and check all functions.



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



23. Check for any field modification not completed.



19. Check the electrical charging system.



24. Check for correct function of the Bobcat Interlock Control System (BICS™) before the machine is returned to the customer.



20. Check tracks for wear and tension.



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



21. Inspect for loose or broken parts or connections.



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.

SAFETY INSTRUCTIONS



Safety Alert Symbol

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

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

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

IMPORTANT

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

I-2019-0284

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.
- An Operator's Handbook fastened to the operator cab. 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 Service Manual and Parts Manual are available from your dealer for use by mechanics to do shoptype service and repair work.
- The Skid-Steer Loader Operator Training Course is available through your local dealer or at www.training.bobcat.com or www.bobcat.com.
 This course is intended to provide rules and practices of correct operation of the Skid-Steer Loader. The course is available in English and Spanish versions.
- Service Safety Training Courses are available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com. They provide information for safe and correct service procedures.
- The Skid-Steer Loader Safety Video is available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com.

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SAFETY INSTRUCTIONS (CONT'D)

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.



Call Before You Dig

1-888-258-0808

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.)

SAFETY INSTRUCTIONS (CONT'D)

Fire Prevention

The machine and attachments have components that are at high temperature 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.

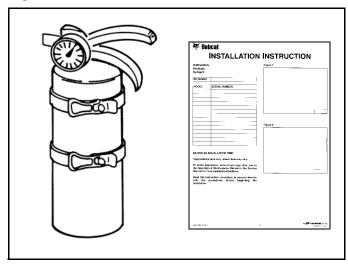
Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it will increase fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential hazard.

The spark arrestor muffler is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

- Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.
- The operator cab, engine compartment, and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazard and overheating.
- Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part.
- Check fuel and hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. 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.
- Do not use ether or starting fluids on any engine which has glow plugs. These starting aids can cause explosion and injure you or bystanders.
- Always clean the machine, disconnect the battery, and disconnect the wiring from the 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 a dust mask when grinding painted parts. Toxic dust or gas can be produced.
- Stop the engine and let it cool before adding fuel. NO SMOKING!

- Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.
- Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler (if equipped).

Figure 1



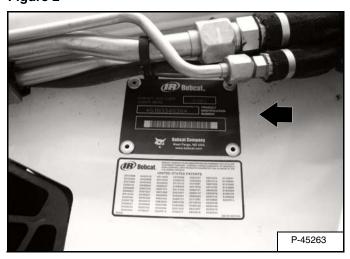
• Know where fire extinguishers and first aid kits are located and how to use them. Fire extinguishers are available from your Bobcat dealer [Figure 1].

SERIAL NUMBER LOCATIONS

Always use the serial number of the loader 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.

Loader Serial Number

Figure 2



The loader serial number plate is located on the outside of the loader frame [Figure 2].

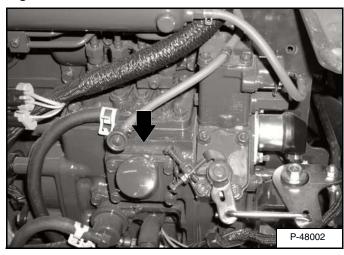
Explanation of loader Serial Number:

XXXX	xxxxx
3	Model 2Production Sequence (Series)

- 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 loader is produced.

Engine Serial Number

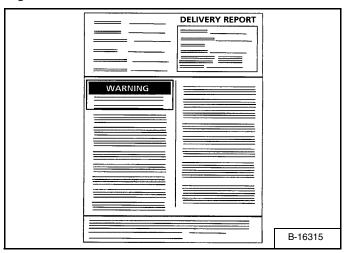
Figure 3



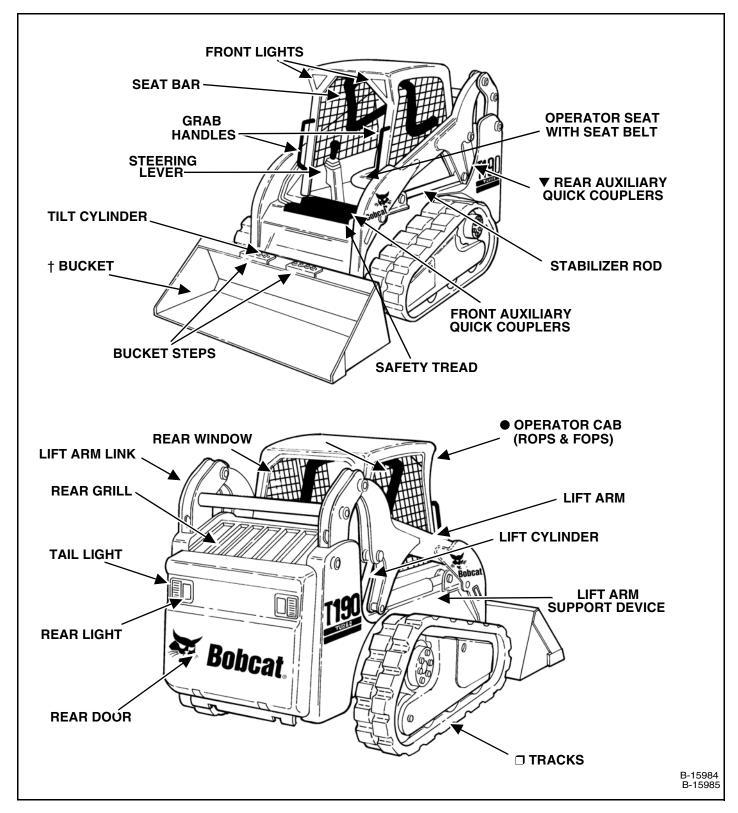
The engine serial number is in the location shown [Figure 3].

DELIVERY REPORT

Figure 4



The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Bobcat loader is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely **[Figure 4]**.



- ▼ OPTIONAL OR FIELD ACCESSORY (Not Standard Equipment)
- ☐ TRACKS Optional tracks are available.
- † Bucket Several different buckets and other attachments are available for this machine.
- ROPS, FOPS Roll Over Protective Structure, per SAE J1040 and ISO 3471, and Falling Object Protective Structure per ISO 3449, Level II is available. Extra insulated cab is available as an option (Reduced noise level).

SAFETY & MAINTENANCE

SAFETY & MAINTENANCE

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LUBRICATION OF THE BOBCAT LOADER

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SERVICE SCHEDULE 10-70-1 Chart 10-70-1
SPARK ARRESTOR MUFFLER
TOWING THE LOADER
TRANSPORTING THE BOBCAT LOADER

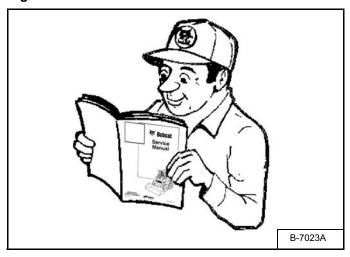
TIGHTEN ALL HARDWARE PER SIZE TO GRADE 5 TORQUE SEE STANDARD TORQUE SPECIFICATIONS FOR BOLTS, SPEC SECTION UNLESS OTHERWISE SPECIFIED.

WARNING

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W-2003-0903

Figure 10-10-1



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 10-10-2

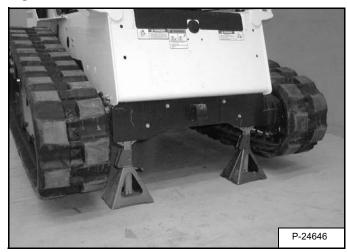


Always park the loader on a level surface.

Put floor jack under the rear of the loader [Figure 10-10-2].

Lift the rear of the loader and install jackstands [Figure 10-10-2].

Figure 10-10-3



Put the floor jack under the front of the loader [Figure 10-10-3].

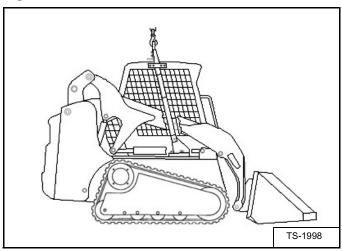
Lift the front of the loader and put jackstands under the axle tubes [Figure 10-10-3].

NOTE: Make sure the jackstands do not touch the tracks. Make sure the tracks clear the floor or any obstacles.

LIFTING AND BLOCKING THE LOADER (CONT'D)

Single Point Lift

Figure 10-10-4



The loader can be lifted with the Single Point Lift which is available as a kit from your Bobcat loader dealer.

Install the kit as explained in the Instructions with the kit and attach lift as shown [Figure 10-10-4].

The Single Point Lift, supplied by Bobcat, is designed to lift and support the Bobcat loader without affecting roll over and falling object protection features of the operator cab.

LIFT ARM SUPPORT DEVICE

Installing Lift Arm Support Device

WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by an approved lift arm support device. Failure to use an approved lift arm support device can allow the lift arms or attachment to fall and cause injury or death.

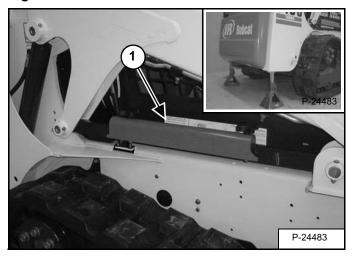
W-2059-0598

WARNING

Service lift arm support device if damaged or if parts are missing. Using a damaged lift arm support or with missing parts can cause lift arms to drop causing injury or death.

W-2271-1197

Figure 10-20-1



Put jackstands under the rear corners of the loader frame (Inset) [Figure 10-20-1].

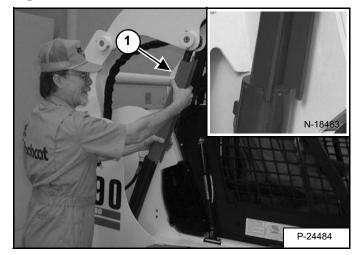
Remove the lift arm support device (Item 1) [Figure 10-20-1] from storage position.

A DANGER AVOID DEATH

- Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop.
- Keep out of this area when lift arms are raised unless supported by an approved lift arm support. Replace if damaged. 57051



Figure 10-20-2



The operator must be in the operator's seat, with the seat belt fastened and seat bar lowered, until the lift arm support device is installed.

Start the engine, and raise the lift arms all the way up.

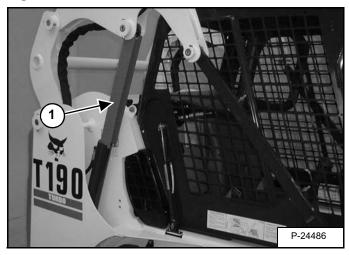
Have a second person install the lift arm support device (Item 1) **[Figure 10-20-2]** over the rod of one of the lift cylinders.

The lift arm support device must be tight against the cylinder rod. The tabs of the lift arm support device must be under the cylinder as shown (Inset) [Figure 10-20-2].

LIFT ARM SUPPORT DEVICE (CONT'D)

Installing Lift Arm Support Device (Cont'd)

Figure 10-20-3



Lower the lift arms slowly until the lift arm support device (Item 1) **[Figure 10-20-3]** is held between the lift arms and lift cylinder.

Removing Lift Arm Support Device

The operator must be in the operator's seat, with the seat belt fastened and seat bar lowered, until the lift arm support device is removed and the lift arms are lowered all the way.

Start the engine, raise the lift arms all the way up.

Have a second person remove the lift arm support device.

Lower the lift arms all the way and stop the engine.

Return the lift arm support device to storage position and secure with clamping knobs.

Remove the jackstands.

OPERATOR CAB

Description

The Bobcat loader has an operator cab (ROPS and FOPS) as standard equipment to protect the operator from rollover and falling objects. Check with your dealer if the operator cab has been damaged. 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, Level I. Level II is available.

Level I - Protection from falling bricks, small concrete blocks, and hand tools encountered in operations such as highway maintenance, landscaping, and other construction site services.

Level II - Protection from falling trees, rocks; for machines involved in site clearing, overhead demolition or forestry.

Raising The Operator Cab



WARNING

Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in injury or death.

W-2069-1299

Figure 10-30-1

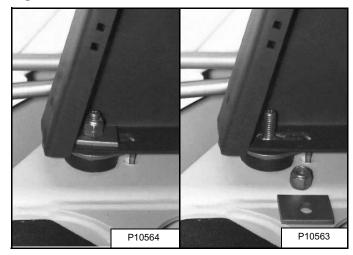


Always stop the engine before raising or lowering the

Stop the loader on a level surface. Lower the lift arms. If the lift arms must be up while raising the operator cab, install the lift arm support device. (See Installing Lift Arm Support Device on Page 10-20-1.)

Install jackstands under the rear of the loader frame [Figure 10-30-1].

Figure 10-30-2



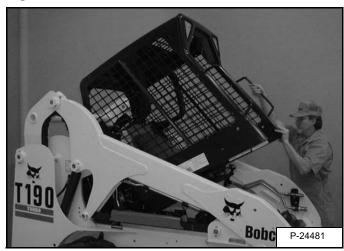
Loosen the nut (both sides) at the front corners of the operator cab [Figure 10-30-2].

Remove the nuts and plates [Figure 10-30-2] (both sides).

OPERATOR CAB (CONT'D)

Raising The Operator Cab (Cont'd)

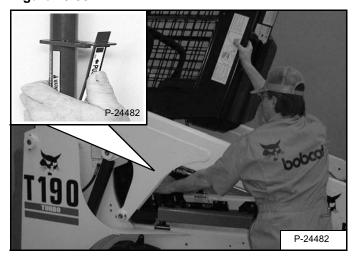
Figure 10-30-3



Lift on the grab handle and bottom of the operator cab slowly until the cab is all the way up and the latching mechanism engages [Figure 10-30-3].

Lowering The Operator Cab

Figure 10-30-4



Always stop the engine before raising or lowering the cab.

NOTE: Make sure the seat bar is fully raised or lowered when lowering the cab. Always use the grab handles to lower the cab.

Release the latching mechanism (Inset) [Figure 10-30-4] and pull the cab all the way down.

Pull down on the bottom of the operator cab until it stops at the latching mechanism [Figure 10-30-4].

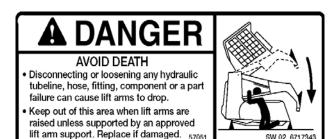
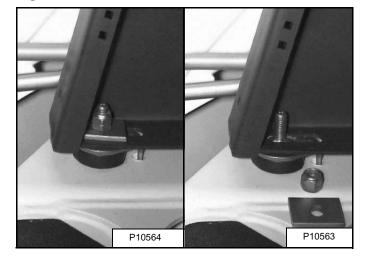


Figure 10-30-5



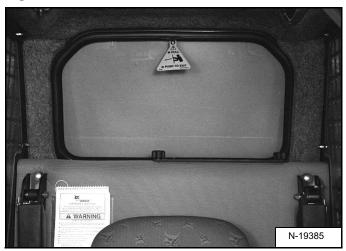
Install the plates and nuts [Figure 10-30-5] (both sides).

Tighten the nuts to 40-50 ft.-lbs. (54-68 Nm) torque.

OPERATOR CAB (CONT'D)

Emergency Exit

Figure 10-30-6



The front opening on the operator cab and rear window provide exits.

Pull on the tag on the top of the rear window to remove the rubber cord [Figure 10-30-6].

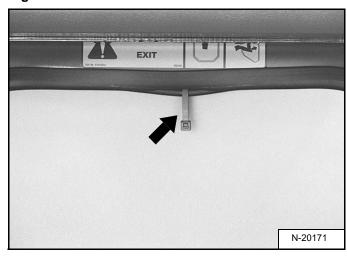
Figure 10-30-7



Push the rear window out of the rear of the operator cab.

Exit through the rear of the operator cab [Figure 10-30-7].

Figure 10-30-8



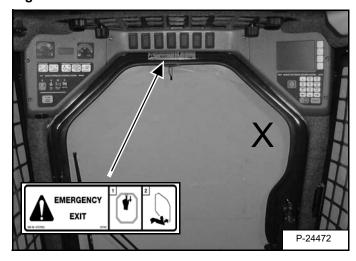
Front Door (If Equipped)

NOTE: When an Operator Cab Enclosure Kit is installed, the window of the front door can be used as an emergency exit. [Figure 10-30-8]

NOTE: If the loader has a Special Application Door Kit installed, the window of the front door is NOT an emergency exit.

Pull the plastic loop at the top of the window in the front door to remove the rubber cord [Figure 10-30-8].

Figure 10-30-9



Push the window out with your foot [Figure 10-30-9] at any corner of the window.

Exit through the front door.

TRANSPORTING THE BOBCAT LOADER

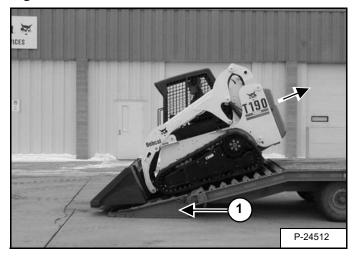
Procedure

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

Figure 10-40-1

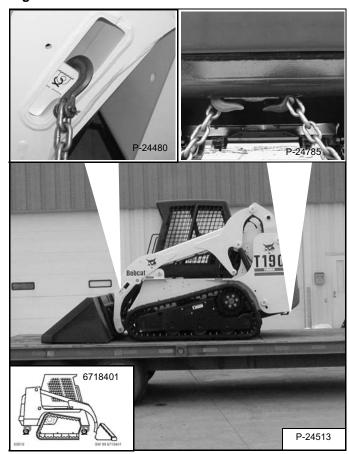


Be sure the transport and towing vehicles are of adequate size and capacity. (See LOADER SPECIFICATIONS on Page SPEC-10-1.).

A loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure 10-40-1].

The rear of the trailer must be blocked or supported (Item 1) **[Figure 10-40-1]** when loading or unloading the loader to prevent the front end of the trailer from raising up.

Figure 10-40-2



Use the following procedure to fasten the Bobcat loader to the transport vehicle to prevent the loader from moving during sudden stops or when going up or down slopes [Figure 10-40-2].

- Lower the bucket or attachment to the floor.
- Stop the engine.
- Engage the parking brake.
- Install chains at the front and rear loader tie down positions (Insets) [Figure 10-40-2].
- Fasten each end of the chain to the transport vehicle.

TOWING THE LOADER

Procedure

Because of the design of the loader, there is not a recommended towing procedure.

- The loader can be lifted onto a transport vehicle.
- The loader can be skidded a short distance to move for service (EXAMPLE: Move onto a transport vehicle.) without damage to the hydrostatic system. (The tires/tracks will not turn.) There might be slight wear to the tires/tracks when the loader is skidded.

The towing chain (or cable) must be rated at 1 & 1/2 times the weight of the loader. (See LOADER SPECIFICATIONS on Page SPEC-10-1.)

Procedure

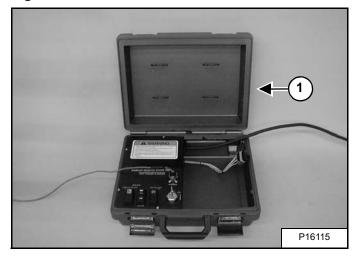


AVOID INJURY OR DEATH

With the 7-pin connector plugged into the loader and Remote Start Key Switch in the OFF position, the loader can still be started from the operator panel inside the cab. Placing the key switch of the remote start tool in the run position disconnects the operator panel key switch from the start circuit. If the service technician will be working the engine area it is important to remove the operator panel keys.

W-2357-0899

Figure 10-60-1



The tool listed will be need to do the following procedure:

MEL1563 - Remote Start Tool Kit

The remote start (Item 1) **[Figure 10-60-1]** is required when the operator cab is in the raised position for service and the service technician needs to turn the key switch on or start the engine. Example: Control Handle: linkage neutral adjustment.

Figure 10-60-2

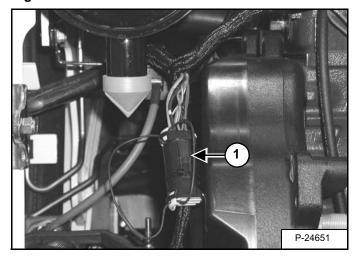
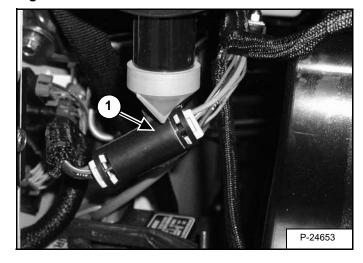


Figure 10-60-3



Lift and block the loader. (See Procedure on Page 10-10-1.)

Raise the lift arms (if required by the procedure) and install an approved lift arm support device. (See Installing Lift Arm Support Device on Page 10-20-1.)

Raise the operator cab (if required by the procedure). (See Raising The Operator Cab on Page 10-30-1.)

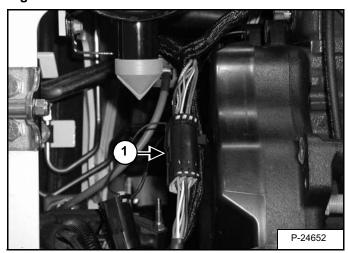
Open the rear door of the loader.

Remove the plug (Item 1) [Figure 10-60-2] or disconnect the attachment control harness (Item 1) [Figure 10-60-3] if connected.

REMOTE START (CONT'D)

Procedure (Cont'd)

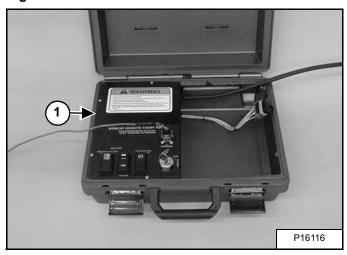
Figure 10-60-4



Connect the remote start tool to the engine harness connector (Item 1) [Figure 10-60-4].

NOTE: The key switch on the right-hand side operator panel must be in the off position or the Remote Start Kit will not operate.

Figure 10-60-5



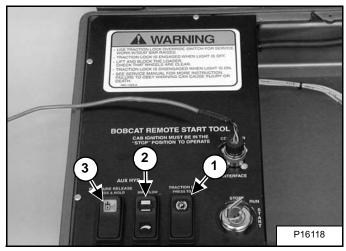
The remote start tool (Item 1) [Figure 10-60-5] has three rocker switches.

WARNING

- USE TRACTION LOCK OVERRIDE SWITCH FOR SERVICE WORK W/SEAT BAR RAISED.
- TRACTION LOCK IS ENGAGED WHEN LIGHT IS OFF.
- LIFT AND BLOCK THE LOADER. CHECK THAT WHEELS ARE CLEAR.
- TRACTION LOCK IS DISENGAGED WHEN LIGHT IS ON.
- SEE SERVICE MANUAL FOR MORE INSTRUCTION.
 FAILURE TO OBEY WARNING CAN CAUSE INJURY OR DEATH.

SW 99 6719575

Figure 10-60-6



The traction lock switch (Item 1) **[Figure 10-60-6]** is used to turn traction lock on or off. Push the switch to the override position. The switch will illuminate to indicate traction lock OVERRIDE, in this position the wheels are able to turn.

The maximum flow/variable flow switch (Item 2) [Figure 10-60-6] is used to activate the auxiliary hydraulics. Pressing the switch once will activate variable flow. Pressing the switch again will activate maximum flow. The switch will illuminate to indicate which flow rate is active. Pressing the switch a third time will turn the flow OFF. The switch is used when checking pressures and flow rate.

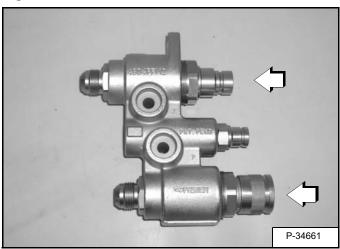
The auxiliary pressure release (Item 3) [Figure 10-60-6] is used to release hydraulic pressure to the rear auxiliary couplers. To release pressure; push and hold the switch for three seconds.

NOTE: With the engine running; pushing and holding the pressure release switch will cause the engine to stop in three seconds. To relieve the pressure; continue to press the switch after the engine has stopped.

REMOTE START (CONT'D)

Procedure (Cont'd)

Figure 10-60-7



Push the couplers on the front auxiliary block toward the block and hold for five seconds to release the front auxiliary pressure [Figure 10-60-7].

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 loader



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	8-10	50	100	■ 250	■ 500	1000
Engine Oil	Check the oil level and add oil as needed.						
Engine Air Filter and Air System	Check display panel. Service only when required. Check for leaks and damaged components.						
Engine Cooling System	Clean debris from oil cooler, radiator and grill. Check coolant level in recovery tank. Add coolant as needed.						
Seat Belt, Seat Bar and Control Interlocks	Check the condition of seat belt. Check the seat bar and control interlocks. Clean dirt and debris from moving parts.						
Safety Signs and Safety Tread	Check for damaged signs (decals) and safety treads. Replace any signs or safety treads that are damaged or worn.						
Indicators & Lights (Opt.)	Check for correct operation of all indicators & lights.						
Operator Cab	Check the fastening bolts, washers & nuts. Check the condition of cab.						
Lift Arms, Cylinders, Bob-Tach Pivot Pins and Wedges	Lubricate with multi-purpose lithium based grease.						
Fuel Filter	Remove the trapped water.						
Bobcat Interlock Control System (BICS™)	Check that four BICS™ indicator lights and functions are acti- vated. See details in this Operation & Maintenance Manual.						
Heater and A/C Filters	Clean or replace filters as needed during heating/cooling season.						
Tracks	Check for damaged or worn tracks and correct tension.	‡					
Hydraulic Fluid, Hoses and Tubelines	Check fluid level and add as needed. Check for damage and leaks. Repair or replace as needed.	-					
Foot Pedals or Hand Controls, and Steering Levers	Check for correct operation. Repair or adjust as needed.						
Parking Brake	Check operation.						
Track Sprocket Bolts	Check torque. Tighten as needed. See procedure in this manual.		•				
Spark Arrestor Muffler	Clean the spark chamber.						
Battery	Check cables, connections and electrolyte level. Add distilled water as needed.						
Steering Shaft	Grease two fittings.						
Engine/Hydros. Drive Belt	Check for wear or damage. Adjust as needed.						
Fan Drive Gearbox	Check gear lube level. Add as needed.						
Alternator Belt & Air Conditioner Belt (If Equipped)	Check belt tension and adjust as needed.						
Engine Oil and Filter	Replace oil and filter. Use CD or better grade oil and Bobcat filter.		t				
Fuel Filter	Replace the filter element.		†				
Bobcat Interlock Control System (BICS™)	Check the function of the lift arm bypass control.						
Hydraulic Reservoir Breather Cap	Replace the reservoir breather cap.						
Hydraulic/Hydrostatic Filter	Replace the filter element.		•				
Hydraulic Reservoir	Replace the fluid.		t		t		
Case Drain Filters	Replace the filters.						
Hydrostatic Motor Carrier	Replace Oil with High Performance Synthetic Oil P/N 6682546.	1	<u> </u>	1	1	 	
•	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1	

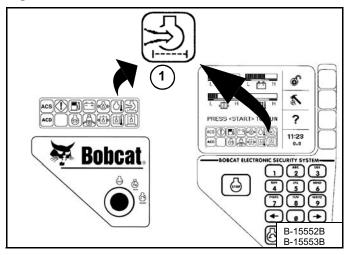
Or every 12 months.

- † First oil and filter change must occur at 50 hours; 250 hours thereafter.
- * Inspect the new belt after first 50 hours.
- · Replace filter element after the first 50 hours and when the transmission warning light comes ON.
- ‡ Check every 8-10 hours for the first 50 hours. Then at 50 hour intervals.
- ♦ Check after the first 50 hours of operation only.

AIR CLEANER SERVICE

Replacing Filter Element

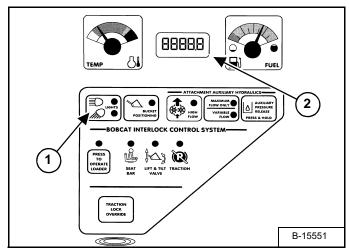
Figure 10-80-1



It is important to change the air filter element only when the Air Cleaner Icon in the right panel is ON (Item 1) [Figure 10-80-1] and you hear three beeps from the alarm.

Replace the inner filter every third time the outer filter is replaced or as indicated.

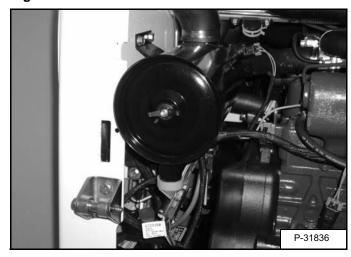
Figure 10-80-2



Press and hold the LIGHT Button (Item 1) [Figure 10-80-2] for two seconds.

If the filter element needs replacement, the CODE [01-17] (Air Filter Plugged) will show in the HOURMETER / CODE DISPLAY (Item 2) [Figure 10-80-2].

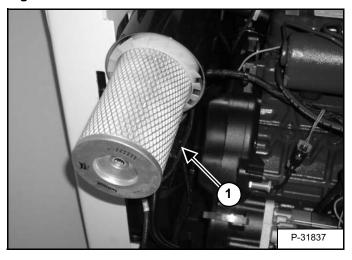
Figure 10-80-3



Outer Filter

Remove the wing nut and remove the dust cover [Figure 10-80-3].

Figure 10-80-4



Remove the wing nut and remove the outer filter element (Item 1) [Figure 10-80-4].

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

Install a new outer element.

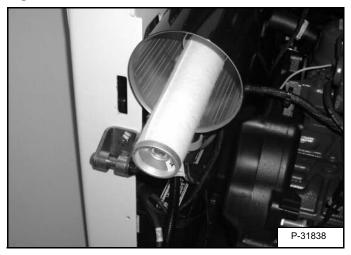
Install the dust cover and the wing nut [Figure 10-80-3] (Be sure the evacuator is down).

Check the air intake hose and the air cleaner housing for damage. Make sure all connections are tight.

AIR CLEANER SERVICE (CONT'D)

Replacing Filter Element (Cont'd)

Figure 10-80-5



Inner Filter

Only replace the inner filter element under the following conditions:

Replace the inner filter element every *third* time the outer filter is replaced.

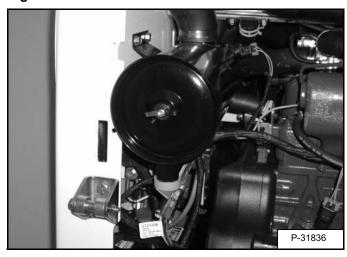
After the outer element has been replaced, start the engine and run at full RPM. If the HOURMETER / CODE DISPLAY shows [01-17] (Air Filter Plugged), replace the inner filter element.

Remove the wing nut and remove the inner filter element [Figure 10-80-5].

Install the new inner element.

Install the outer element.

Figure 10-80-6



Install the dust cover and the wing nut [Figure 10-80-6] (Be sure the evacuator is down).

Cleaning The Cooling System

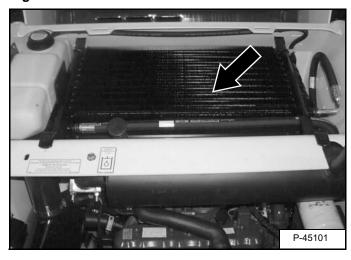


Wear safety glasses to prevent eye injury when any of the following conditions exist:

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

W-2019-1285

Figure 10-90-1



Check the cooling system every day to prevent overheating, loss of performance or engine damage.

Open the rear door and remove the rear grill.(See Removal And Installation on Page 50-60-1.)

Use air pressure or water pressure to clean the top of the oil cooler [Figure 10-90-1].

WARNING

Do not use your bare hands to remove debris from the oil cooler. Cooling fins are sharp and may cause injury.

W-2460-0303

IMPORTANT

AVOID ENGINE DAMAGE

Always use the correct ratio of water to antifreeze.

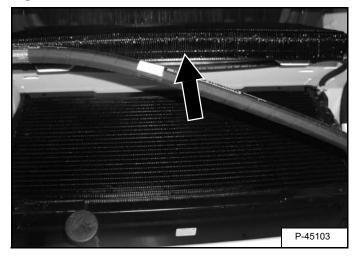
To much antifreeze reduces cooling system efficiency and may cause serious premature engine damage.

Too little antifreeze reduces the additives which protect the internal engine components; reduces the boiling point and freeze protection of the system.

Always add a premixed solution. Adding full strength concentrated coolant can cause serious premature engine damage.

I-2124-0497

Figure 10-90-2



Raise the air conditioning condenser (If equipped) and the oil cooler and clean the top of the radiator [Figure 10-90-2].

Lower the oil cooler on the loader frame.

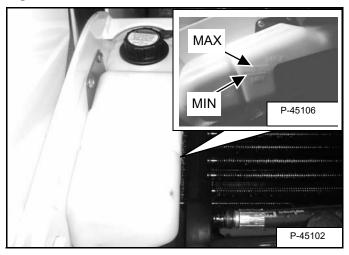
Check cooling system for leaks.

Replace the rear grill and close the rear door.

ENGINE COOLING SYSTEM (CONT'D)

Checking The Coolant Level

Figure 10-90-3



Open the rear door and remove the rear grill.

Check the coolant level **[Figure 10-90-3]**. The level markers are on the outside of the tank. Coolant must be between the bottom marker and the top marker when the engine is cold.

Replace the rear grill and close the rear door before operating the loader.

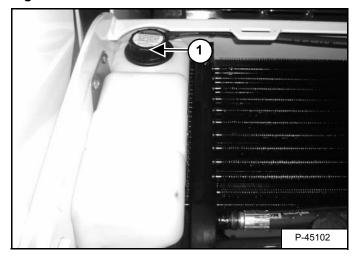
Replacing the Coolant



Do not remove radiator cap when the engine is hot. You can be seriously burned.

W-2070-1285

Figure 10-90-4



Open the rear door and remove the rear grill.

Remove the radiator cap (Item 1) [Figure 10-90-4].

IMPORTANT

AVOID ENGINE DAMAGE
Always use the correct ratio of water to antifreeze.

To much antifreeze reduces cooling system efficiency and may cause serious premature engine damage.

Too little antifreeze reduces the additives which protect the internal engine components; reduces the boiling point and freeze protection of the system.

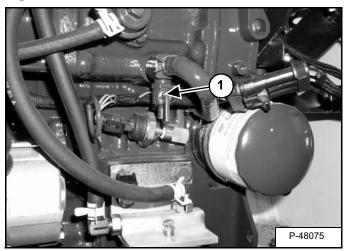
Always add a premixed solution. Adding full strength concentrated coolant can cause serious premature engine damage.

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ENGINE COOLING SYSTEM (CONT'D)

Replacing the Coolant (Cont'd)

Figure 10-90-5



Turn the valve (Item 1) **[Figure 10-90-5]** 90 degrees and drain the coolant into a container.

Recycle or dispose of used coolant in an environmentally safe manner. Close the drain valve and remove the hose.

NOTE: The loader is factory filled with propylene glycol coolant (purple color). DO NOT mix propylene glycol with ethylene glycol.

Add premixed coolant, 47% water and 53% propylene glycol to the recovery tank if the coolant level is low.

One gallon and one pint (4,3 L) of propylene glycol mixed with one gallon (3,8 L) of water is the correct mixture of coolant to provide a -34°F (-37°C) freeze protection.

Use a refractometer to check the condition of propylene glycol in your cooling system.

Fill the radiator with the premixed coolant. Install the radiator cap.

Remove the cover from the coolant recovery tank. Fill the tank until it is at the lower marker (inside the tank).

Run the engine until it is at operating temperature.

Stop the engine.

Check the coolant level in the recovery tank when cool.

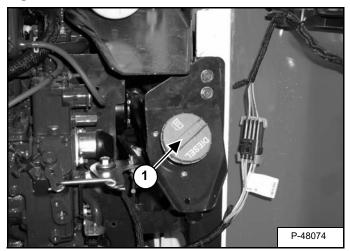
Add coolant as needed.

Replace the rear grill and close the rear door.

FUEL SYSTEM

Fuel Specifications

Figure 10-100-1



Use only clean, high quality diesel fuel, Grade No. 2 or Grade No. 1.

The following is one suggested blending guideline which should prevent fuel gelling during cold temperatures:

Temp. F° (C°)	No. 2	No. 1		
+15° (9°)	100%	0%		
Down to -20° (-29°)	50%	50%		
Below -20° (-29°)	0%	100%		

Contact your fuel supplier for local recommendations.

Filling The Fuel Tank

WARNING

Stop and cool the engine before adding fuel. NO SMOKING! Failure to obey warnings can cause an explosion or fire.

W-2063-0887

WARNING

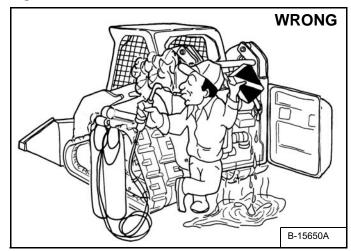
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285

Open the rear door.

Remove the fuel fill cap (Item 1) [Figure 10-100-1].

Figure 10-100-2

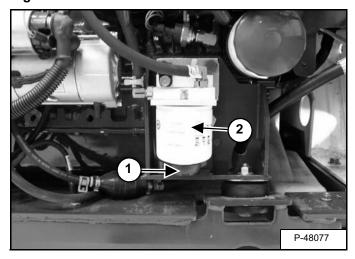


Use a clean, approved safety container to add fuel of the correct specifications. Add fuel only in an area that has free movement of air and no open flames or sparks. **NO SMOKING!** [Figure 10-100-2].

Install and tighten the fuel fill cap (Item 1) [Figure 10-100-1].

Fuel Filter

Figure 10-100-3



(See SERVICE SCHEDULE on Page 10-70-1), for the service interval for removing water from, or replacing the fuel filter.

Removing Water

Loosen the drain (Item 1) [Figure 10-100-3] at the bottom of the filter element to remove water from the filter.

Replacing Element

Remove the filter element (Item 2) [Figure 10-100-3].

Clean the area around the filter housing. Put clean oil on the seal of the new filter element. Install the fuel filter, and hand tighten.

Remove the air from the fuel system. (See Removing Air From The Fuel System on Page 10-100-2)

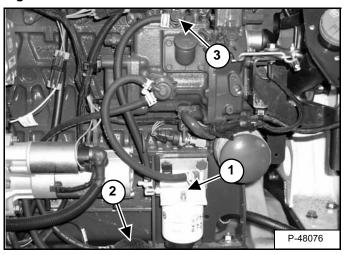
Removing Air From The Fuel System

After replacing the filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

WARNING

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

Figure 10-100-4



Open the vent (Item 1) **[Figure 10-100-4]** on the fuel filter housing.

Squeeze the hand pump (priming bulb) (Item 2) [Figure 10-100-4] until fuel flows from the vent with no air bubbles.

Close the vent (Item 1) [Figure 10-100-4] on the fuel filter housing.

Open the vent (Item 3) [Figure 10-100-4] on the fuel injection pump.

Squeeze the hand pump (priming bulb) (Item 2) [Figure 10-100-4] until the pump feels solid.

Tighten the vent plug (Item 3) [Figure 10-100-4].

Start the engine.

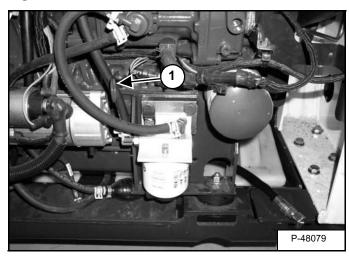
It may be necessary to open the vent plug (Item 3) **[Figure 10-100-4]** briefly while the engine is running. Close the vent when the engine runs smoothly.

ENGINE LUBRICATION SYSTEM

Checking Engine Oil

Check the engine oil level every day before starting the engine for the work shift.

Figure 10-110-1



Park the loader on level ground.

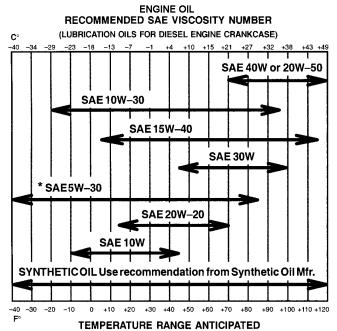
Open the rear door and remove the dipstick (Item 1) [Figure 10-110-1].

Keep the oil level between the marks on the dipstick. **DO NOT OVERFILL.**

Use a good quality motor oil that meets API Service Classification of CD or better. (See Oil Chart.)

Install the dipstick and close the rear door.

Oil Chart



BEFORE NEXT OIL CHANGE (DIESEL ENGINES MUST USE API CLASSIFICATION CE, CD, CF4, CG4, SG)

ENGINE LUBRICATION SYSTEM (CONT'D)

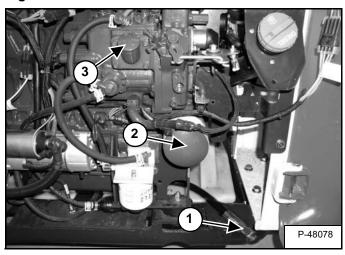
Replacing Oil And Filter

(See SERVICE SCHEDULE on Page 10-70-1), for the service interval for replacing the engine oil and filter.

Run the engine until it is at operating temperature. Park the loader on level ground and stop the engine.

Open the rear door.

Figure 10-110-2



Remove the drain plug (Item 1) [Figure 10-110-2].

Drain the oil into a container and dispose of used oil in an environmentally safe manner.

Remove the oil filter (Item 2) [Figure 10-110-2].

Clean the filter housing surface.

Put clean oil on the new oil filter gasket.

Install the filter and hand tighten.

Install and tighten the drain plug.

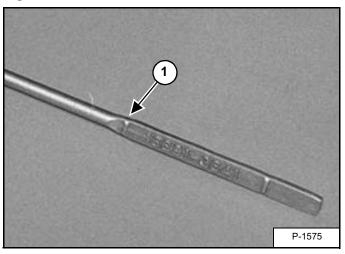
Remove the fill cap (Item 3) [Figure 10-110-2].



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

Figure 10-110-3



Put oil in the engine. (See Capacities on Page SPEC-10-4.) [Figure 10-110-3] (See Oil Chart on Page 10-110-1.)

Start the engine and let it run for several minutes.

Stop the engine and check for leaks at the oil filter.

Remove the dipstick and check the oil level.

Add oil until it reaches the top mark (Item 1) [Figure 10-110-3] on the dipstick. DO NOT OVERFILL.

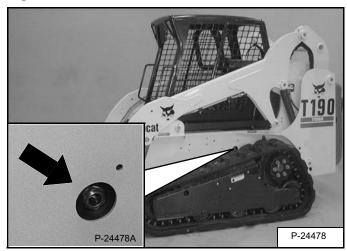
Install the dipstick and the fill plug.

Close the rear door.

HYDRAULIC/HYDROSTATIC SYSTEM

Checking And Adding Fluid

Figure 10-120-1



Use only recommended fluid in the hydraulic system. (See HYDRAULIC/HYDROSTATIC FLUID SPECIFICATIONS on Page SPEC-60-1.)

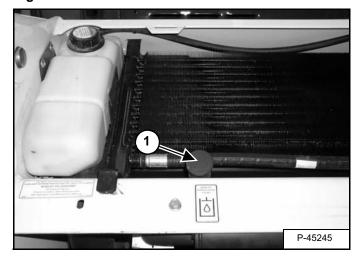
Stop the loader on a level surface,

Lower the lift arms and tilt the Bob-Tach fully back.

Stop the engine.

Check the fluid level in the sight gauge [Figure 10-120-1] on the left side of the loader, above the track.

Figure 10-120-2



Open the rear door and remove the rear grill.

Remove the fill cap (Item 1) [Figure 10-120-2]

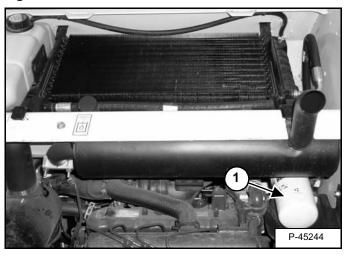
Add the fluid as needed to bring the level to the center of the sight gauge [Figure 10-120-1] and install the fill cap.

Replacing Hydraulic/Hydrostatic Filter

(See SERVICE SCHEDULE on Page 10-70-1), for the correct service intervals.

Open the rear door.

Figure 10-120-3



Remove the filter element (Item 1) [Figure 10-120-3]

Clean the surface of the filter housing where the seal contacts the housing.

Put clean oil on the seal of the new filter element.

Install and hand tighten the filter element.

Close the rear door before operating the loader.

WARNING

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin. This can cause serious injury and possible death if proper medical treatment by a physician familiar with this injury is not received immediately.

W-2145-0290

WARNING

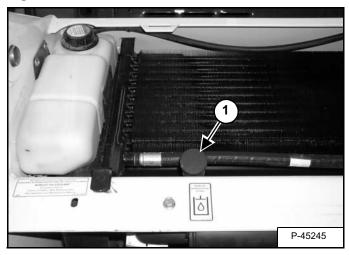
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285

HYDRAULIC/HYDROSTATIC SYSTEM (CONT'D)

Replacing Hydraulic Fluid

Figure 10-120-4



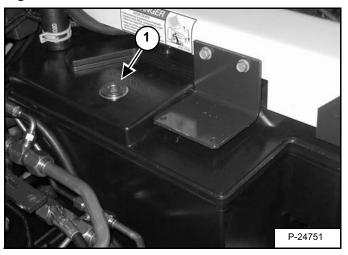
((See SERVICE SCHEDULE on Page 10-70-1), for the service interval.

The fluid must be replaced if it becomes contaminated or after major repairs. If the fluid is replaced, the hydrostatic filter and both case drain filters must be replaced.

Remove the rear grill. [Figure 10-120-4]

Remove the reservoir fill cap (Item 1) [Figure 10-120-4]

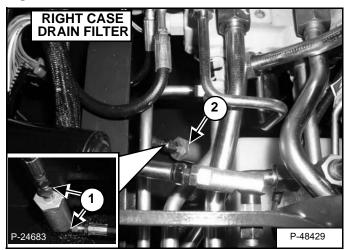
Figure 10-120-5



Raise the operator cab. (See Raising The Operator Cab on Page 10-30-1.)

Remove plug (Item 1) **[Figure 10-120-5]** from hydraulic reservoir and pump the hydraulic fluid into a container.

Figure 10-120-6

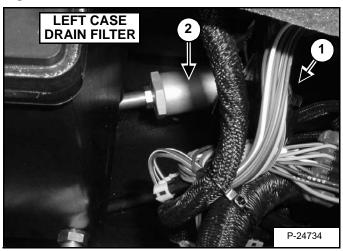


Disconnect the hoses (Item 1) [Figure 10-120-6] from the case drain filter located under the control valve. Cap and plug the hoses and case drain filter to prevent leakage.

HYDRAULIC/HYDROSTATIC SYSTEM (CONT'D)

Replacing Hydraulic Fluid (Cont'd)

Figure 10-120-7



Disconnect the hose (Item 1) **[Figure 10-120-7]** from the case drain filter located on the reservoir. Cap and plug the hose and case drain filter to prevent leakage.

Remove the case drain filters (Item 2) [Figure 10-120-6] & [Figure 10-120-7] and drain the fluid into a container.

Replace the hydraulic/hydrostatic filter. (See Replacing Hydraulic/Hydrostatic Filter on Page 10-120-1.)

Replace both hydrostatic motor case drain filters (Item 2) [Figure 10-120-6] & [Figure 10-120-7].

When the fluid is removed from the reservoir, reconnect the hose to case drain filters.

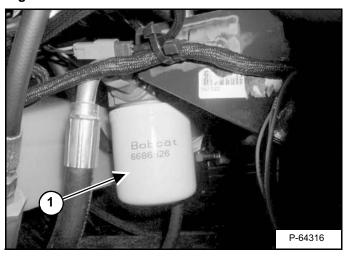
Add the correct fluid to the reservoir until the fluid level is at the center of the sight gauge (Do not overfill) with lift arms lowered.

Lower the operator cab. (See Lowering The Operator Cab on Page 10-30-2.)

Start the engine and operate the loader hydraulic controls. Stop the engine and check for leaks.

Check the fluid level in the reservoir and add as needed.

Figure 10-120-8



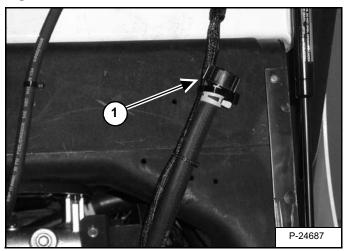
The hydrostatic charge pressure filter shown [Figure 10-120-8] is located behind the control panel and in front of the fuel tank.

Remove and replace the hydrostatic charge pressure filter (Item 1) [Figure 10-120-8].

HYDRAULIC/HYDROSTATIC SYSTEM (CONT'D)

Breather Cap

Figure 10-120-9



(See SERVICE SCHEDULE on Page 10-70-1), for the correct service replacement interval.

Raise the operator cab. (See Raising The Operator Cab on Page 10-30-1.)

Remove the breather cap (Item 1) and discard. [Figure 10-120-9]

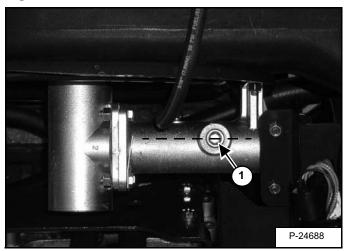
Install new cap.

Lower the operator cab. (See Lowering The Operator Cab on Page 10-30-2.)

FAN GEARBOX

Checking And Maintaining

Figure 10-130-1



(See SERVICE SCHEDULE on Page 10-70-1), for the correct service interval.

Raise the operator cab. (See Raising The Operator Cab on Page 10-30-1.)

Remove the plug (Item 1) [Figure 10-130-1] to check the lubricant level.

If the level is low, add SAE 90W gear lubricant through the check plug hole until lubricant flows from the hole.

Install and tighten the plug.

Lower the operator cab. (See Lowering The Operator Cab on Page 10-30-2.)

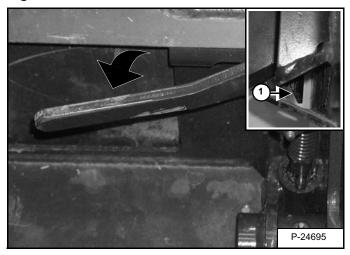
Inspection And Maintenance



Bob-Tach wedges must extend through the holes in attachment. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

W-2102-0588

Figure 10-140-1



Move the Bob-Tach levers to engage the wedges [Figure 10-140-1]. The levers and wedges must move freely.

The wedges must extend through the holes in the attachment mounting frame (Item 1) [Figure 10-140-1].

Figure 10-140-2

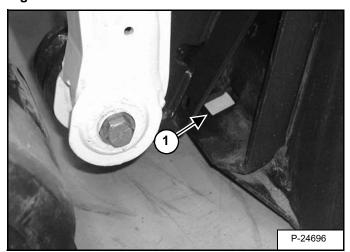
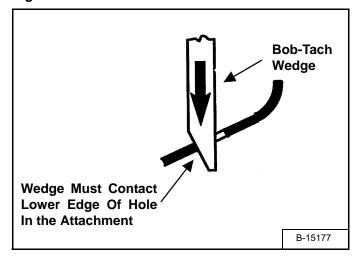


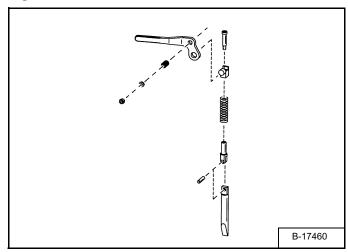
Figure 10-140-3



The spring loaded wedge (Item 1) [Figure 10-140-1] must contact the lower edge of the hole in the attachment (Item 1) [Figure 10-140-2] and [Figure 10-140-3].

If the wedge does not contact the lower edge of the hole **[Figure 10-140-2]** and **[Figure 10-140-3]**, the attachment will be loose and can come off the Bob-Tach.

Figure 10-140-4



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-140-4]. Replace any parts that are damaged, bent, or missing. Keep all fasteners tight.

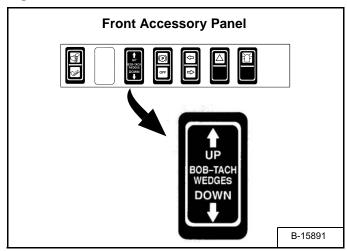
Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See LUBRICATION OF THE BOBCAT LOADER on Page 10-150-1.)

POWER BOB-TACH (OPTION)

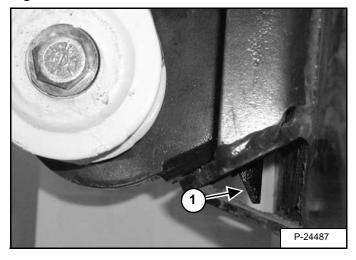
Inspection And Maintenance

Figure 10-141-1



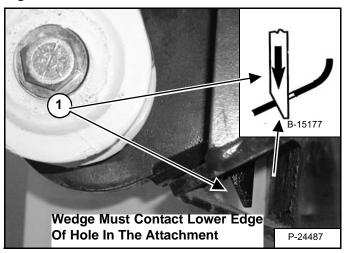
Push and hold the BOB-TACH "WEDGES UP" switch [Figure 10-141-1] until wedges are fully raised. Push and hold the BOB-TACH "WEDGES DOWN" switch [Figure 10-141-1] until the wedges are fully down. The wedges must move freely.

Figure 10-141-2



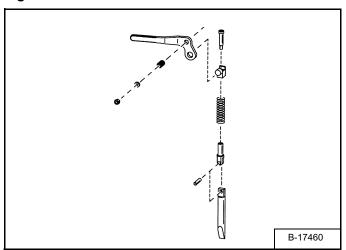
The wedges must extend through the holes in the attachment mounting frame (Item 1) [Figure 10-141-2] and must contact the lower edge of the hole in the attachment [Figure 10-141-2] and (Item 1) [Figure 10-141-3].

Figure 10-141-3



If the wedge does not contact the lower edge of the hole **[Figure 10-141-3]**, the attachment will be loose and can come off the Bob-Tach.

Figure 10-141-4



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-141-4]. Replace any parts including decals and lever that are damaged, bent, or missing. Keep all fasteners tight. Inspect the hoses and fittings for leaks.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See LUBRICATION OF THE BOBCAT LOADER on Page 10-150-1.)

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