

T180

TURBO

T180

TURBO

HIGH FLOW

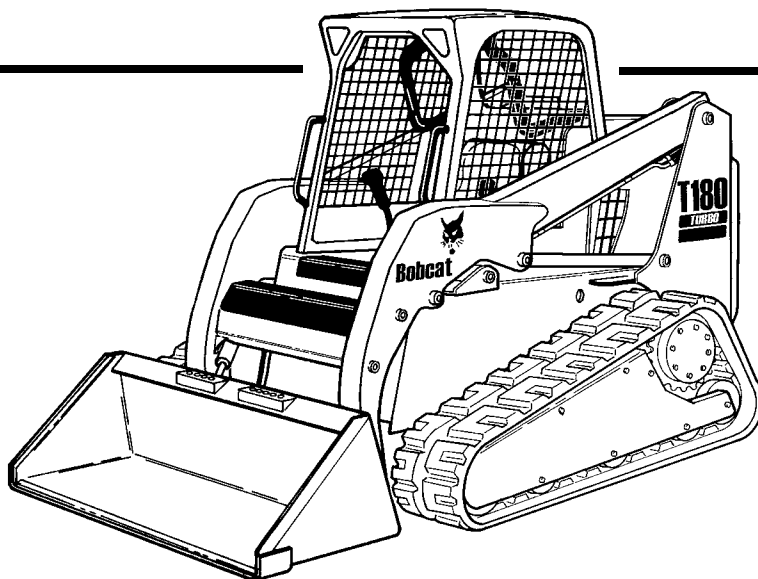


Bobcat®

Operation & Maintenance Manual



S/N 524211001 & Above



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**EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)**

6902501 (12-06) Revised (5-12) (5)

IR Ingersoll Rand
Compact Vehicle Technologies

Printed in U.S.A.

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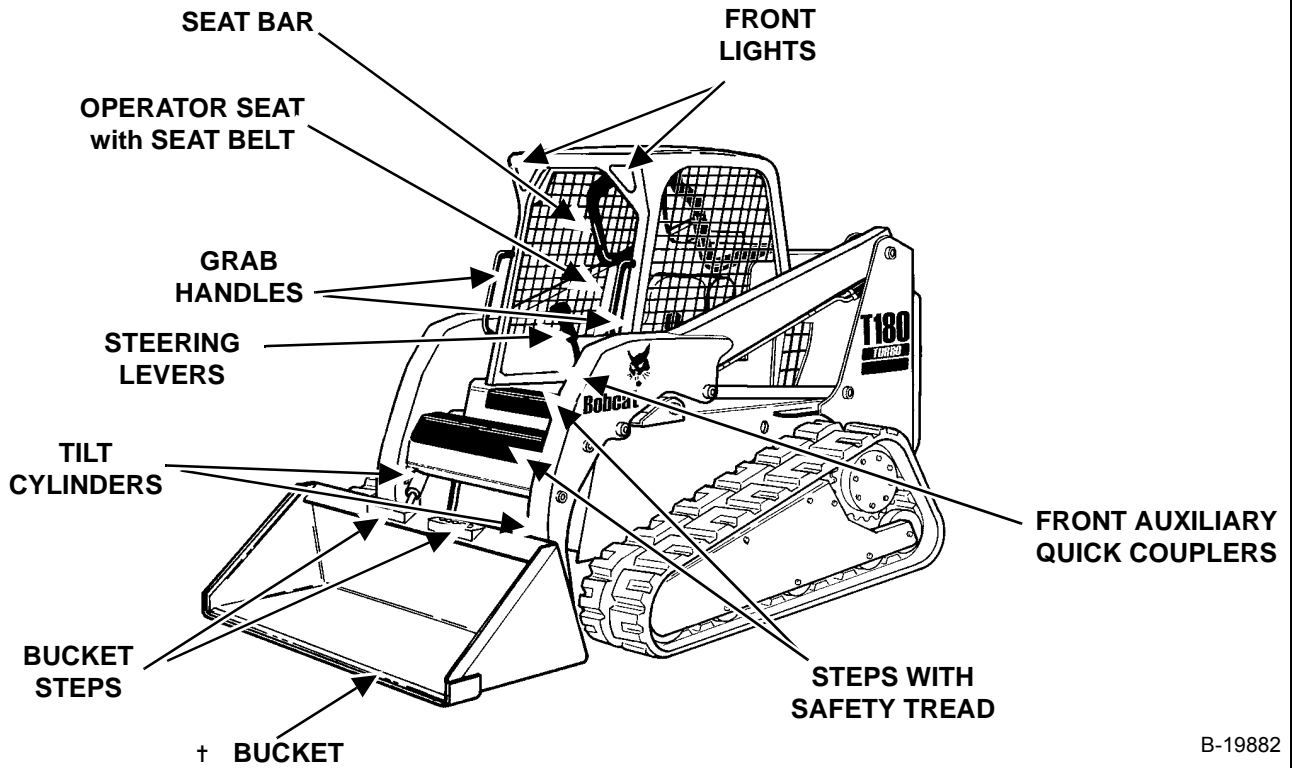
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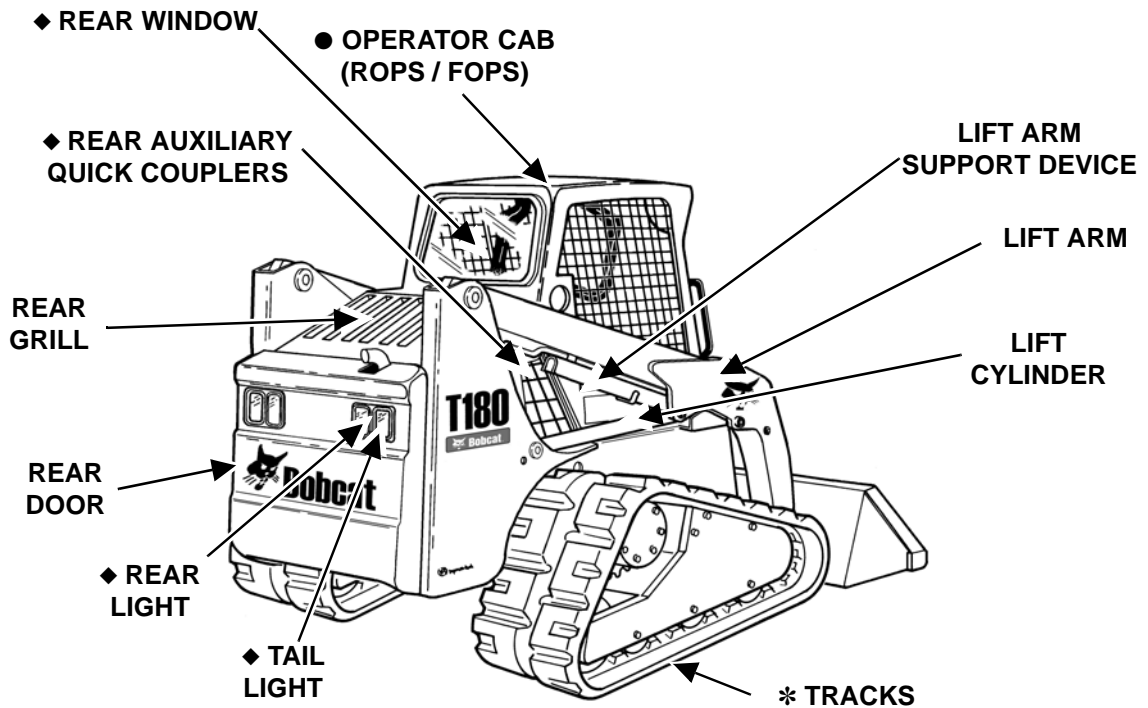
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MACHINE IDENTIFICATION



B-19882



B-19883

♦ 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 I. Level II is available.

MACHINE SIGNS (DECALS) (CONT'D)


Follow the instructions on all the Machine Signs (Decals) that are on the Loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat Loader dealer.

WARNING
CYLINDER CONTAINS HIGH PRESSURE GAS. DO NOT OPEN OPENING CYLINDER
CAN RELEASE HOOP AND CAUSE INJURY OR DEATH. (S/N M 657754)

6577754 (2)

← PUSH TO RELEASE STOP
6578368

BOBCAT HYDROSTATIC FLUID



6565990

IMPORTANT

THE MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. HONORARY SERVICE APPROVED SPRAY ARRESTOR SYSTEM.

THE SPRAY ARRESTOR SYSTEM IS EQUIPPED WITH A SPRAY ARRESTOR THAT IS DESIGNED TO OPERATE CORRECTLY FOR PROPER SPRAY ARRESTOR FUNCTION.

IF THIS MACHINE IS OPERATED IN A HAZARDOUS ENVIRONMENT, SUCH AS UNDER COVERED LAND, IT MUST BE EQUIPPED WITH A SPRAY ARRESTOR THAT IS DESIGNED TO OPERATE CORRECTLY FOR PROPER SPRAY ARRESTOR FUNCTION.

SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

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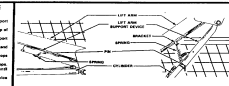
DO NOT Add Ethylene Glycol Coolant
COOLANT SYSTEM PROTECTED TO -34 F (-37 C) WITH
BOBCAT PG COOLANT
(Propylene Glycol)
Check Condition With Refractometer
See Operation and Maintenance Manual

6708929

Under Grill

TO PREVENT LIFT ARM SUPPORT DEVICE

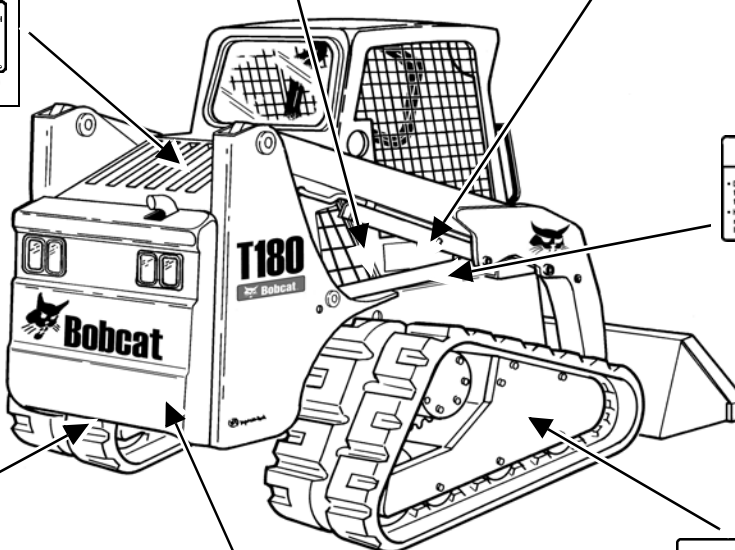
1. Release lift arm support device.
2. Lower lift arm.
3. Lower bucket.
4. Lower loader.
5. Lower boom.
6. Lower chassis.
7. Lower rear axle.
8. Lower front axle.
9. Lower front suspension.
10. Lower rear suspension.
11. Lower rear axle.
12. Lower rear suspension.
13. Lower rear axle.
14. Lower rear suspension.
15. Lower rear axle.
16. Lower rear suspension.
17. Lower rear axle.
18. Lower rear suspension.
19. Lower rear axle.
20. Lower rear suspension.




TO DISCONNECT LIFT ARM SUPPORT DEVICE

1. Release lift arm support device.
2. Lower lift arm.
3. Lower bucket.
4. Lower loader.
5. Lower boom.
6. Lower chassis.
7. Lower rear axle.
8. Lower front axle.
9. Lower front suspension.
10. Lower rear suspension.
11. Lower rear axle.
12. Lower rear suspension.
13. Lower rear axle.
14. Lower rear suspension.
15. Lower rear axle.
16. Lower rear suspension.
17. Lower rear axle.
18. Lower rear suspension.
19. Lower rear axle.
20. Lower rear suspension.

6706558



6595014 (3)



DANGER
AVOID DEATH

- Disconnecting or loosening any hydraulic tube, 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.

6717343 (2)
(Under Cab)


WARNING
HIGH PRESSURE GREASE CAN CAUSE SERIOUS INJURY

- Do not loosen grease fitting.
- Do not loosen bleed fitting more than 1-1/2 turns.

6804114 (2)

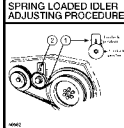
WARNING SERVICE CHECKLIST AND SCHEDULE

GENERAL LUBRICATION DIAGRAMS




6734534

SPRING LOADED IDLER ADJUSTING PROCEDURE



6709030

Check Oil Level



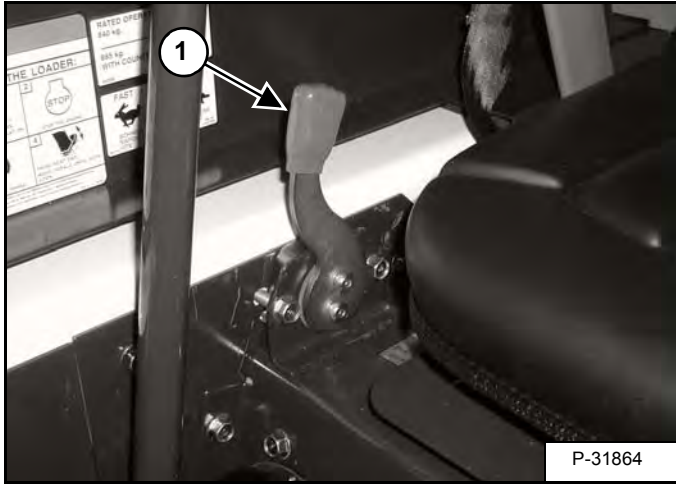
6717679

Inside Rear Door

ENGINE SPEED CONTROL

Operation

Figure OI-11



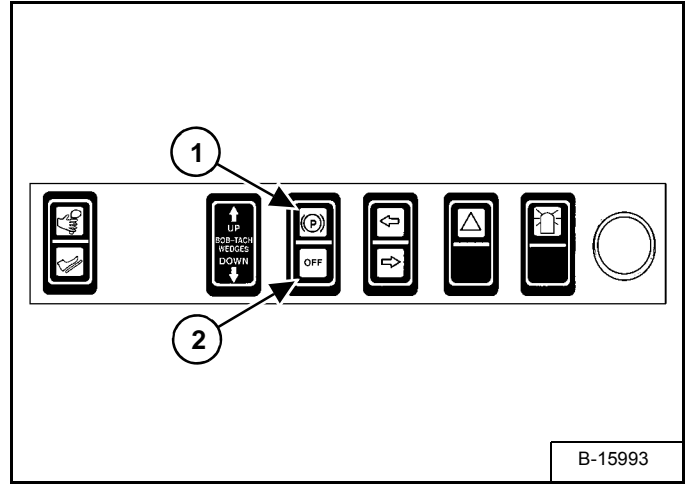
The speed control lever is at the right side of the operator's seat (Item 1) [Figure OI-11].

Move the lever forward to increase engine speed. Move backward to decrease engine speed.

PARKING BRAKE

Operation

Figure OI-12



Press the top of the switch (Item 1) [Figure OI-12] to engage the parking brake. The traction drive system will be locked.

Press the bottom of the switch (Item 2) [Figure OI-12] to disengage the parking brake. The traction drive system will be unlocked.

NOTE: The **TRACTION** light on the left instrument panel will remain **OFF** until the engine is started, the **PRESS TO OPERATE LOADER** button is pressed and the parking brake is disengaged.

DAILY INSPECTION

<p>⚠ WARNING</p> <p>AVOID INJURY OR DEATH</p> <ul style="list-style-type: none"> Keep door closed except for service. Keep engine clean of flammable material. Keep body, loose objects and clothing away from electrical contacts, moving parts, hot parts and exhaust. Do not use loader in space with explosive dusts or gases or with flammable material near exhaust. Never use ether or starting fluid on diesel engine with glow plugs. Use only starting aids as approved by engine manufacturer. Leaking fluids under pressure can enter skin and cause serious injury. Battery acid causes severe burns; wear goggles. If acid contacts eyes, skin, or clothing, flush with water. For contact with eyes, flush and get medical attention. Battery makes flammable and explosive gas. Keep arcs, sparks, flames and lighted tobacco away. For jump start, connect negative cable to loader engine last (never at the battery). After jump start, remove negative connection at the engine first. 	<p align="center">SERVICE CHECKLIST AND SCHEDULE</p> <p>EVERY 10 HRS (BEFORE STARTING THE LOADER)</p> <ul style="list-style-type: none"> ENGINE OIL & FILTER - Check level and add as needed. Do not overfill. Change oil and filter after first 50 Hrs, then refer to Operation & Maintenance Manual for proper change interval for your Model. ENGINE AIR FILTER - Check condition indicator and/or display. Service only when required. Do not use compressed air to clean elements. ENGINE AIR SYSTEM - Check for leaks and damaged components. ENGINE COOLING SYSTEM - Clean debris from grill, oil cooler and radiator. Check coolant level cold; add coolant mixture if required. FUEL FILTER - Remove trapped water. LOADER LIFT ARMS, LIFT LINKS, CYLINDERS, BOB-TACH PIVOT & WEDGES, STEERING CYLINDERS (AWS Machine Only) - Lubricate with multipurpose lithium based grease. SEAT BELT, SEAT BAR AND CONTROL INTERLOCKS - Check function. Repair or replace as needed. Clean dirt and debris from moving parts. BICS - Check for correct function. Clean dirt and debris from moving parts. Lift and Tilt functions MUST NOT operate with seat bar raised. TIRES - Check air pressure. Inflate to MAXIMUM pressure shown on sidewall of tire. GENERAL - Check for loose or broken parts, damaged operator cab, instrument operation, loose wheel nuts or track sprocket nuts, oil leaks, damaged or missing safety signs (decals). <p>EVERY 50 HRS</p> <ul style="list-style-type: none"> HYDRAULIC FLUID, HOSES AND TUBELINES - Check fluid level and add if required. Check for damage and for leaks. Repair or replace as needed. FINAL DRIVE TRANSMISSION (CHAINCASE, Wheel Machines Only) - Check fluid level and add if required. HYDRAULIC & STEERING CONTROLS (PEDALS, HAND, and/or JOYSTICK) - Check for correct operation. Adjust as needed. WHEEL NUTS / TRACK DRIVE SPROCKETS - Check for loose nuts and tighten as needed. TRACK TENSION (Track Machines Only) - Check tension and adjust as needed. <p>EVERY 100 HRS</p> <ul style="list-style-type: none"> SPARK ARRESTOR MUFFLER - Empty spark chamber. (If equipped.) BATTERY - Check battery for damage, hold down clamps, cables, connections and electrolyte level. Add distilled water as needed. DRIVE LINE - Lubricate Engine-to-Pump Coupler with multipurpose lithium based grease. (If equipped.) <p>EVERY 250 HRS</p> <ul style="list-style-type: none"> STEERING LEVER PIVOTS - Lubricate with multipurpose lithium based grease. (If equipped.) FUEL FILTER - Replace filter. ENGINE PINS (AWS Machine Only) - Lubricate with multipurpose lithium based grease. ENGINE / HYDRAULIC DRIVE BELT - Check for wear or damage. Adjust or replace as needed. (If equipped.) FAN DRIVE GEARBOX - Check fluid level and add if required. (If equipped.) OTHER DRIVE BELTS (Hydrostatic pump, water pump, alternator, and air conditioner - if equipped.) - Check condition and tension. Adjust or replace as needed. BICS - Check function of Lift Arm By-Pass control. <p>EVERY 500 HRS</p> <ul style="list-style-type: none"> HYDRAULIC / HYDROSTATIC SYSTEM - Replace filter. Replace reservoir breather cap. STEERING VALVE IN-LINE FILTER (AWS Only) - Replace filter. <p>EVERY 1000 HRS</p> <ul style="list-style-type: none"> HYDRAULIC RESERVOIR - Replace fluid. FINAL DRIVE TRANSMISSION (Chaincase on Wheel Machines Only) - Replace fluid. TRACK ROLLER, IDLER ASSEMBLIES (Track Machines Only) - Replace fluid (if required). DRIVE MOTOR CASE DRAIN FILTER - Replace filter (if equipped.) WHEEL BEARING & OUTER SPLINES (AWS only) - Respack wheel bearings, grease internal splines in hub yoke. (Dealer Service Only) <p>NOTES:</p> <ul style="list-style-type: none"> Replace element sooner if transmission warning indicator remains on for more than 5 minutes after hydraulic fluid is at operating temperature. Service at first 50 Hours, then as scheduled. See Operation & Maintenance Manual for correct fluid specifications, filter part number and location, and appropriate service interval for your Model. <p align="center">SEE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION AND INSTRUCTIONS.</p>	<p align="center">GENERAL LUBRICATION DIAGRAMS</p> <p align="center">● TYPICAL GREASE POINTS</p> <p align="center"> </p>
80697		6734534

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The Service Schedule (above) is a guide for correct maintenance of the Bobcat Loader. It is located inside the rear door of the loader. (See SERVICE SCHEDULE (6734534) on Page MST-3.)

Daily Inspection and Maintenance

- Engine Oil Level
- Hydraulic/Hydrostatic Fluid Level
- Engine Air Filter, Check System for Damage or Leaks
- Engine Coolant System, Check System for Damage or Leaks
- Operator Cab and Cab Mounting Hardware
- Seat Belt
- Seat Bar and Control Interlocks
- Grease Pivot Pins (Lift Arms, Bob-Tach, Cylinders, Bob-Tach Wedges)
- Tracks, Check for Wear, Damage, Correct Tension
- Fuel Filter, Remove Trapped Water
- Loose or Broken Parts, Repair or Replace as Necessary
- Lift Arm Support Device. Replace if Damaged
- Bobcat Interlock Control System (BICS)



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

W-2001-0502

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

ATTACHMENTS AND BUCKETS

Choosing The Correct Bucket

NOTE: Warranty is void if non-approved attachments are used on the Bobcat Loader.



Never use attachments or buckets which are not approved by Bobcat Company. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.

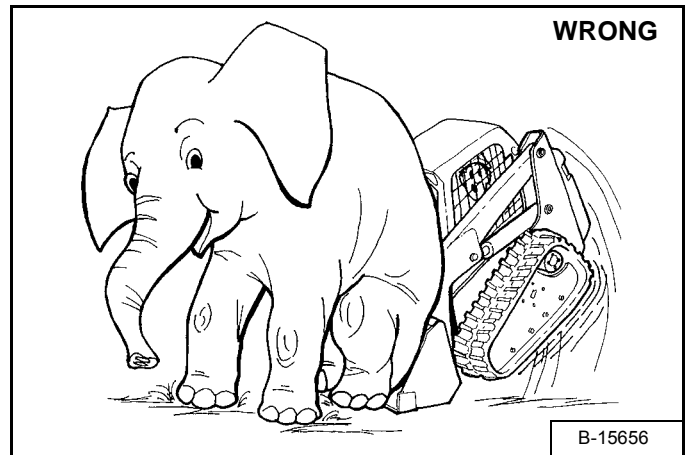
W-2052-0500

The dealer can identify, for each model loader, the attachments and buckets approved by Bobcat. The buckets and attachments are approved for Rated Operating Capacity and for secure fastening to the Bob-Tach.

The Rated Operating Capacity for this loader is shown on a decal in the operator cab. (See LOADER SPECIFICATIONS (T180) on Page SPEC-3.)

The Rated Operating Capacity is determined by using a standard dirt bucket, and material of normal density, such as dirt or dry gravel. If longer buckets are used, the load center moves forward and reduces the Rated Operating Capacity. If very dense material is loaded, the volume must be reduced to prevent overloading.

Figure OI-49



Exceeding the Rated Operating Capacity [Figure OI-49] can cause the following problems:

- Steering the loader may be difficult.
- Tracks will wear faster.
- There will be a loss of stability.
- The life of the Bobcat Loader will be reduced.

Use the correct bucket size for the type and density of material being handled. For safe handling of materials and avoiding machine damage, the attachment (or bucket) should handle a full load without going over the Rated Operating Capacity for the loader. Partial loads make steering more difficult.

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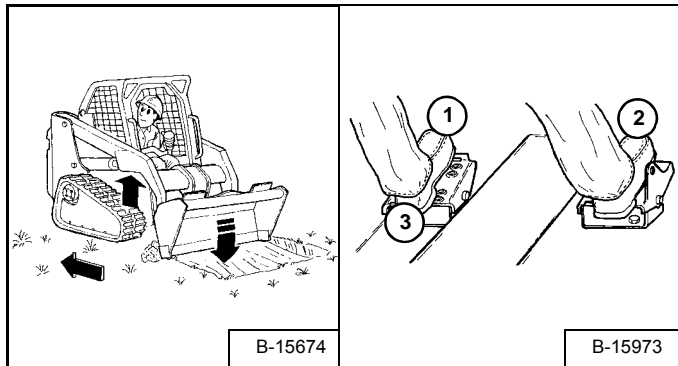
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OPERATING PROCEDURE (CONT'D)

Foot Pedal Machines (Cont'd)

Leveling The Ground (Using Float Position):

Figure OI-73



Put the lift arms in *float* position by pushing the pedal all the way forward (Item 1) **[Figure OI-73]** until the pedal is locked in the forward position.

Tilt the bucket forward (Item 2) **[Figure OI-73]** to change the position of the cutting edge of the bucket.

With the bucket tilted farther forward, there is more force on the cutting edge and more loose material can be moved.

Drive backward to level loose material.

Push the bottom of the lift pedal (Item 3) **[Figure OI-73]** to unlock the float position.

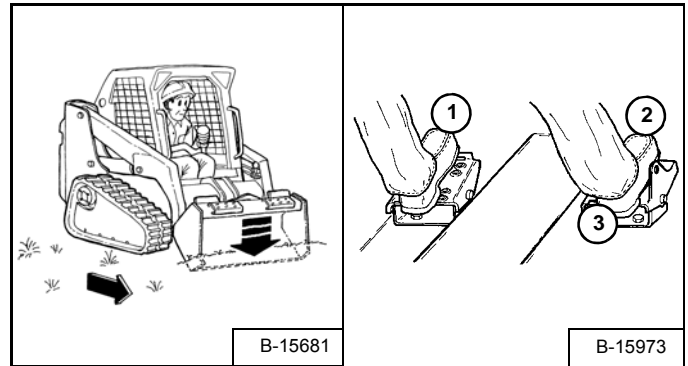
IMPORTANT

Never drive forward when the hydraulic control for lift arms is in float position.

I-2005-1285

Digging A Hole

Figure OI-74



Lower the lift arms all the way (Item 1) **[Figure OI-74]**. Put the cutting edge of the bucket on the ground (Item 2) **[Figure OI-74]**.

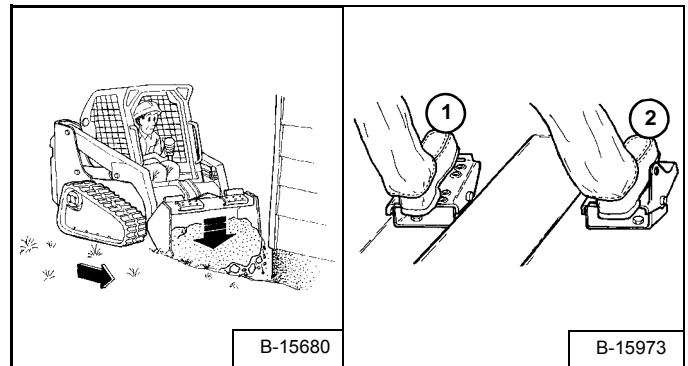
Drive forward slowly and continue to tilt the bucket down (Item 2) **[Figure OI-74]** until it enters the ground.

Raise the cutting edge a small amount (Item 3) **[Figure OI-74]** to increase traction and keep an even digging depth. Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge of the bucket (Items 2 & 3) **[Figure OI-74]** while driving forward slowly.

Tilt the bucket backward (Item 3) **[Figure OI-74]** as far as it will go when the bucket is full.

Filling The Hole

Figure OI-75



Lower the lift arms (Item 1) **[Figure OI-75]** and put the cutting edge of the bucket on the ground (Item 2) **[Figure OI-75]**. Drive forward to the edge of the hole to push the material into the hole.

Tilt the bucket forward (Item 2) **[Figure OI-75]** as soon as it is past the edge of the hole.

If necessary, raise the lift arms to empty the bucket.

MAINTENANCE SAFETY



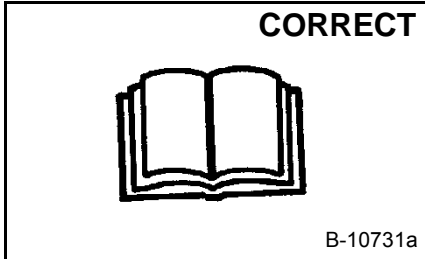
WARNING

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

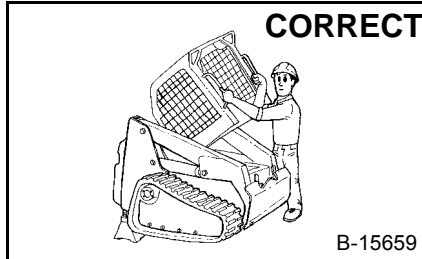
W-2003-0903



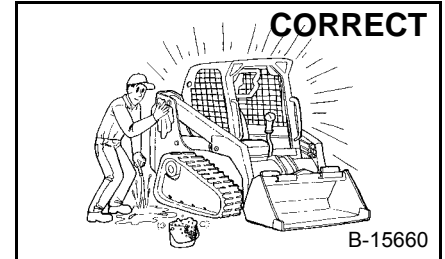
Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



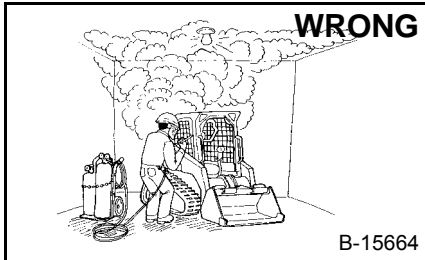
⚠ Never service the Bobcat Compact Track Loader without instructions.



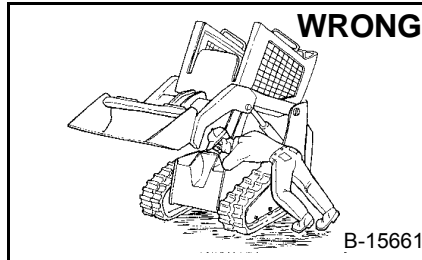
⚠ Use the correct procedure to lift or lower operator cab.



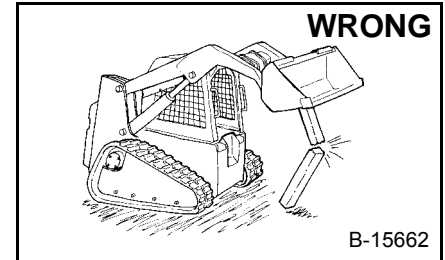
⚠ Cleaning and maintenance are required daily.



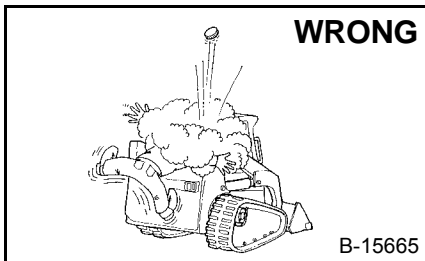
⚠ Have good ventilation when welding or grinding painted parts.
 ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
 ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.



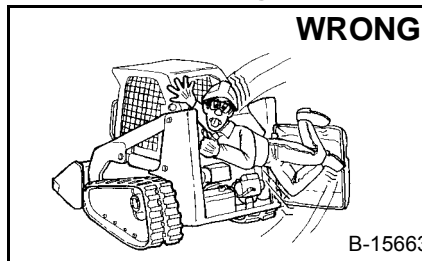
⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.



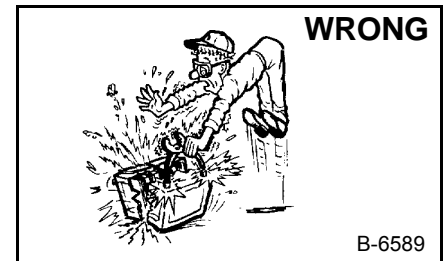
⚠ Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.
 ⚠ Never modify equipment or add attachments not approved by Bobcat Company.



⚠ 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.



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



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

MSW09-0805

SEAT BELT

Inspection and Maintenance

WARNING

Failure to properly inspect and maintain the seat belt can cause lack of operator restraint resulting in serious injury or death.

W-2466-0703

Check the seat belt daily for correct function.

Inspect the seat belt system thoroughly yearly or more often if the machine is exposed to severe environmental conditions or applications.

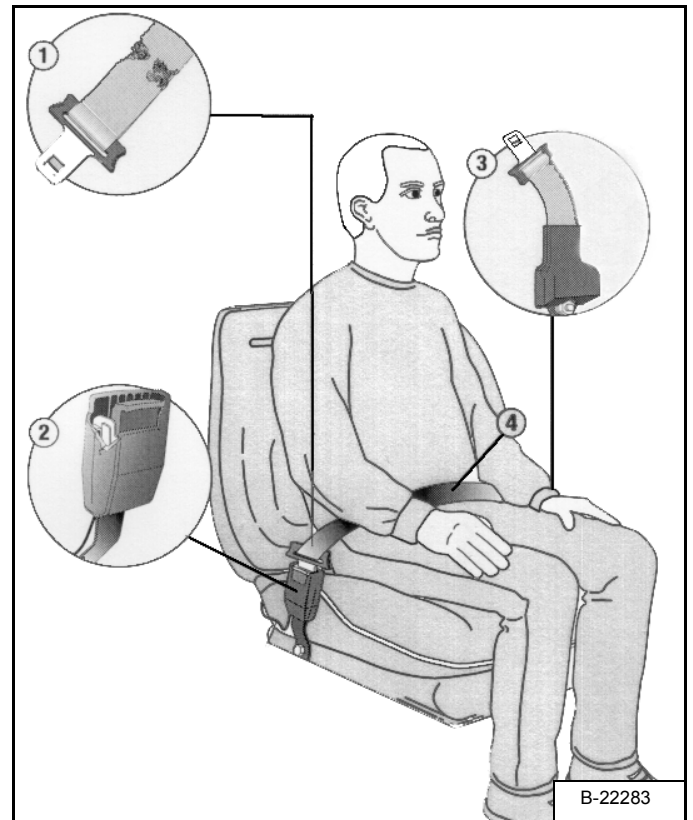
The seat belt system should be repaired or replaced if it shows cuts, fraying, extreme or unusual wear, significant discolorations due to ultraviolet (UV) rays from the sun, dusty / dirty conditions, abrasion to the seat belt webbing, or damage to the buckle, latch plate, retractor (if equipped), or hardware.

The items below are referenced in [Figure PM-17].

1. Check the seat belt webbing. If the system is equipped with a retractor, pull the webbing completely out and inspect the full length of the webbing. Look for cuts, wear, fraying, dirt and stiffness.
2. Check the buckle and latch for proper function. Make sure latch plate is not excessively worn, deformed or buckle is not damaged.
3. Check the retractor web storage device (if equipped) by extending the seat belt webbing to determine if it extends and retracts the webbing correctly.
4. Check webbing in areas exposed to ultraviolet (UV) rays from the sun or extreme dust or dirt. If the original color of the webbing in these areas is extremely faded and / or the webbing is packed with dirt, the webbing strength may have weakened.

See your Bobcat dealer for approved seat belt system replacement parts for your machine.

Figure PM-20

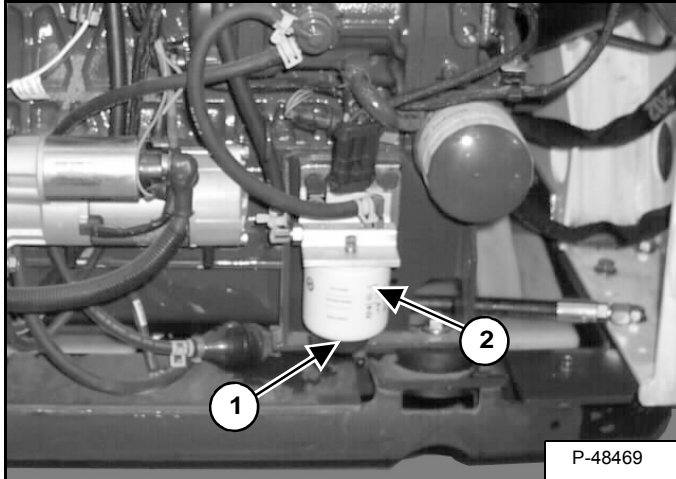


FUEL SYSTEM (CONT'D)

Fuel Filter

For the service interval for removing water from, or replacing the fuel filter (See SERVICE SCHEDULE on Page PM-7.)

Figure PM-40



Loosen the drain (Item 1) [Figure PM-40] at the bottom of the filter element to remove water from the filter.

Remove the filter element (Item 2) [Figure PM-40].

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 air from the fuel system. (See Removing Air From The Fuel System on Page PM-25.)

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.

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Removing Air From The Fuel System

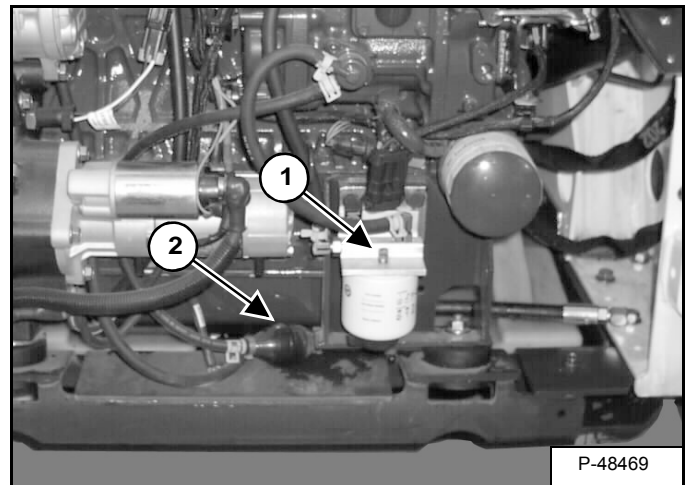
After replacing the filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

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.

W-2072-0496

Figure PM-41



Open the vent (Item 1) [Figure PM-41] on the fuel filter housing.

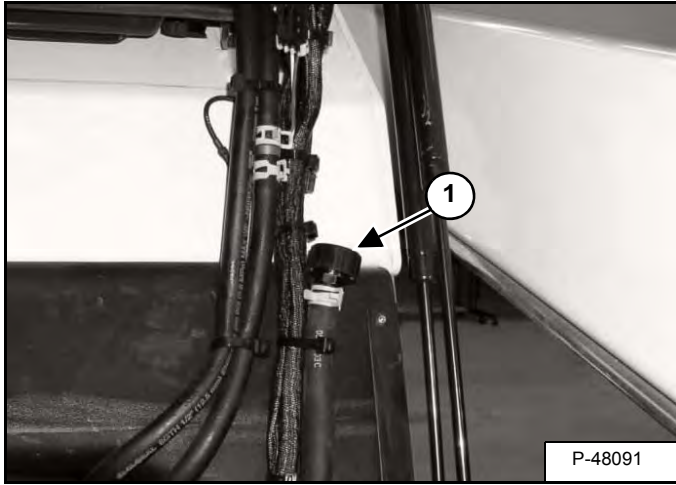
Squeeze the hand pump (priming bulb) (Item 2) [Figure PM-41] until fuel flows from the vent with no air bubbles.

Close the vent (Item 1) [Figure PM-39].

HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

Hydraulic Breather

Figure PM-60



Raise the cab (See Raising The Operator Cab on Page PM-12.)

Remove and discard the hydraulic breather (Item 1) [Figure PM-60]. Install new breather. For correct interval (See SERVICE SCHEDULE on Page PM-7.)

Lower the cab. (See Lowering The Operator Cab on Page PM-13.)

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

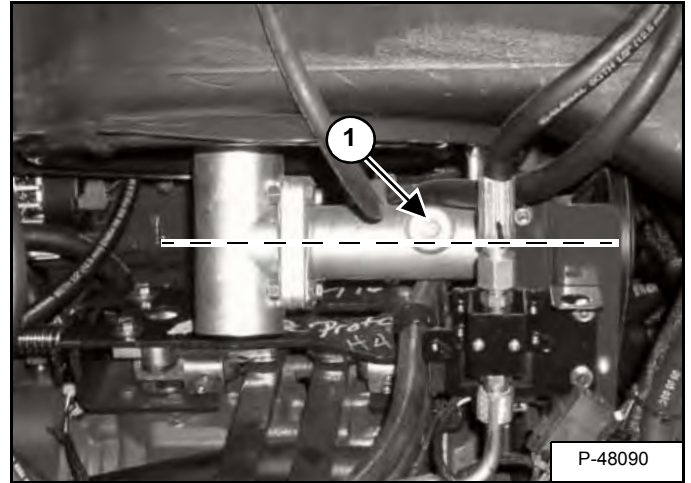
FAN GEARBOX

For the correct service interval (See SERVICE SCHEDULE on Page PM-7.)

Checking And Maintaining

Raise the operator cab. (See Raising The Operator Cab on Page PM-12.)

Figure PM-61



Remove the plug (Item 1) [Figure PM-61]. Lubricant level must be at the bottom edge of the plug hole.

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

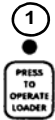



Install and tighten the plug.

Lower the operator cab. (See Lowering The Operator Cab on Page PM-13.)

BICS SYSTEM

Troubleshooting Guide

The following list shows the effects which can happen to the loader, and the probable causes when the BICS System lights are off or flashing and associated service code. (See DIAGNOSTICS SERVICE CODES on Page SA-4.)

Indicator Light	Light ON	Light OFF	Effect on Operation of Loader When Light is OFF	SERVICE CODES Means System Error (See Your Bobcat Dealer for Service)		
				No. of Flashes	Service Code	Causes
	PRESS TO OPERATE LOADER Button is pressed.	PRESS TO OPERATE LOADER Button is not pressed.	----	----	----	----
	Seat Bar is down.	Seat Bar is up.	Lift and tilt functions will not operate.	2	11-05	Seat Bar sensor circuit shorted to battery voltage*.
				3	11-06	Seat Bar sensor circuit shorted to ground.
				Continuous Flashing	03-09 03-10	System voltage low System voltage high
	Control valve can be used.	Control valve cannot be used.	Lift, tilt and traction functions will not operate.	1	17-07	Valve output circuit is open.
				2	17-05	Valve output circuit shorted to battery voltage*.
				3	17-06	Valve output circuit shorted to ground.
				3	17-06	Controller not grounded or intermittent ground.
				Continuous Flashing	03-09 03-10	System voltage low System voltage high
	Loader can be moved forward & backward	Loader cannot be moved forward and backward.	Loader cannot be moved forward and backward.	1	16-07	Traction lock hold solenoid circuit is open.
				2	16-05	Traction lock hold solenoid circuit shorted to battery voltage*.
				3	16-06	Traction lock hold solenoid circuit shorted to ground.
				5	15-02	Traction lock pull solenoid circuit is shorted to battery voltage* - ERROR ON (Should be OFF).
				6	15-03	Traction lock pull solenoid circuit ERROR OFF (Should be ON).
				Continuous Flashing	03-09 03-10	System voltage low System voltage high

* Normal BICS operating voltage is less than electrical system voltage.

MACHINE SIGN TRANSLATIONS

SERVICE SCHEDULE (6734534)	MST-3
WARNING (6728540)	MST-4
WARNING (6577754)	MST-5
WARNING (6718391)	MST-5
WARNING (6732696)	MST-5
DANGER (6718392)	MST-6
DANGER (6718393)	MST-6
LIFT ARM SUPPORT DEVICE (6706558)	MST-6
DANGER (6717343)	MST-7
IMPORTANT (6560573)	MST-7



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