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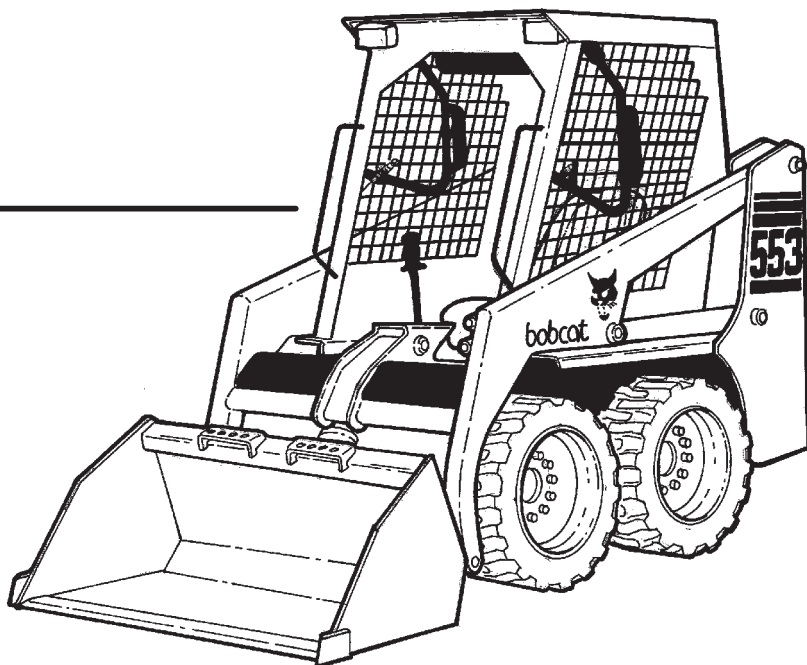


Bobcat®

Operation & Maintenance Manual

S/N 516311800 & Above
Europe Only – S/N 516412200 & Above

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



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SAFETY

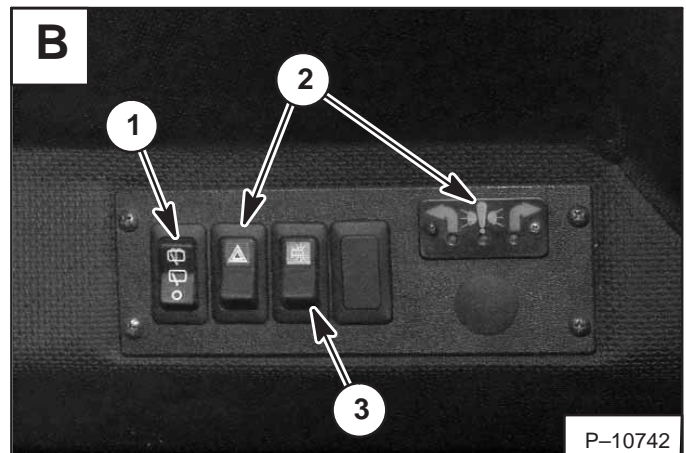
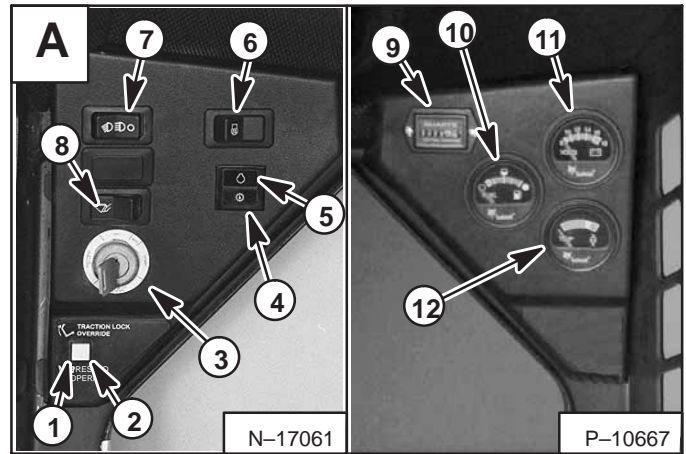
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SAFETY

INSTRUMENT PANEL

Front Panel [A]

1. **TRACTION LOCK OVERRIDE BUTTON** (*Functions Only When The Seat Bar Is Raised*)– Allows you to use the steering levers to move the loader forward or backward when using the backhoe attachment or for loader service. (See Page 5.)
2. **PRESS TO OPERATE BUTTON** (*Functions Only When The Seat Bar Is Down*) – Activates BICS™ System when the Seat Bar is down and operator is seated in the operating position.
3. **KEY SWITCH** – For starting & stopping the engine.
4. **TRANSMISSION WARNING LIGHT** – Low transmission charge pressure, hydraulic filter needs replacement or high fluid temperature. Stop the engine if the light comes ON.
5. **ENGINE WARNING LIGHT** – Low engine oil pressure or high coolant temperature. Stop the engine if the light comes ON.
6. **PREHEAT BUTTON** – For preheating the engine (glow plugs) before starting the engine.
7. **LIGHT SWITCH (Opt./FA)** – Controls the available work and travel lights.
8. **BUCKET LEVEL SWITCH (Opt./FA)** – Controls the ON/OFF function of the available bucket position valve.
9. **HOURMETER** – Records the total operating hours of the loader.
10. **FUEL GAUGE** – Shows the amount of fuel in the fuel tank.
11. **VOLTMETER** – Shows the condition of the battery and the rate of charge.
12. **ENGINE TEMPERATURE GAUGE** – Shows the engine coolant temperature.



Side Console* [B]

1. **REAR WIPER/WASHER (FA)** – Controls operation of the available rear window wiper and washer.
2. **HAZARD SWITCH/HAZARD INDICATORS (Opt./FA)** – Controls the available hazard lights. (Hazard Lights is a separate available accessory.) Both panel indicators blink for hazard condition when the hazard switch is ON. A red light indicates fuse out for taillights, headlights, work lights, etc.
3. **BEACON OR STROBE SWITCH (Opt./FA)** – Controls the available flashing beacon or strobe light.

* Can be installed if you have a Deluxe Cab or a Cab Enclosure installed.

Opt. – Factory Installed **Option**

FA – Field Installed **Accessory** – See your Bobcat loader dealer about available Field Accessories.

DAILY INSPECTION

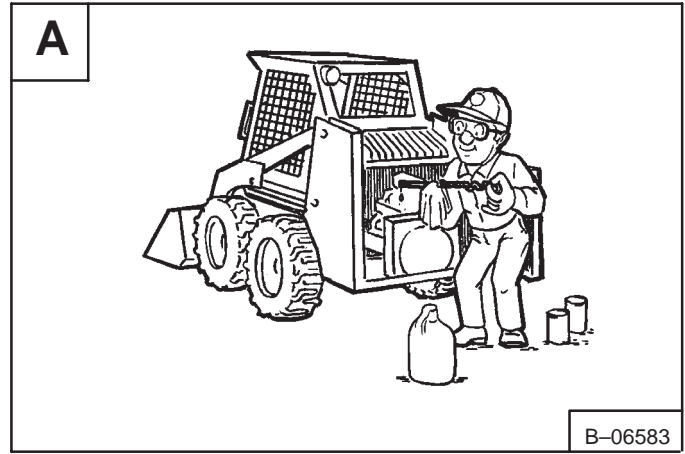
The loader must be in good operating condition [A].

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The Service Schedule [B] is a guide to correct maintenance of the Bobcat loader. It is located inside the rear door of the loader and also in the *MACHINE SIGN TRANSLATION* Section Page 61.

Check the following items before starting each day:

- Engine Oil Level
- Hydraulic/Hydrostatic Fluid Level
- Engine Air Filter, Air System for Damage or Leaks
- Engine Coolant Level, System for Damage or Leaks
- Operator Cab, Seat Belt, Seat Bar & Pedal Interlocks
- Grease Pivot Pins (Lift Arms, Bob-Tach, Cylinders, Bob-Tach Wedges)
- Tires for Wear or Damage and Correct Air Pressure
- Fuel Filter, Remove Trapped Water
- Loose or Broken Parts
- Safety Treads and Safety Signs (Decals)
- Bobcat Interlock Control System (BICS™)
- Lift Arm Support Device

NOTE: Fluids such as engine oil, hydraulic fluid, coolants, 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.



! WARNING

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

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B

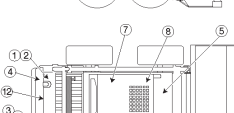
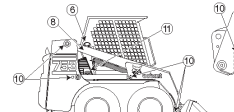
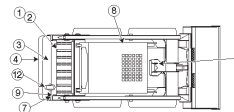
WARNING

AVOID INJURY OR DEATH

- 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.
- All exhaust gases can kill. Always ventilate.
- 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. Immediate medical attention is required. Wear goggles. Use cardboard to check for leaks.
- Battery acid causes severe burns wear goggles. If acid contacts eyes, skin or clothing, flush well 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 the loader engine last (never at the battery). After jump start, remove negative connection at the engine first.

SERVICE SCHEDULE

- EVERY 10 HOURS (BEFORE STARTING THE LOADER)**
- **ENGINE OIL** - Check level and add as needed. Do not overfill.
 - **ENGINE AIR FILTERS** - Check gauge and/or display. Service only when required.
 - **ENGINE AIR SYSTEM** - Check for leaks and damaged components.
 - **ENGINE COOLING SYSTEM** - Clean debris from oil cooler and grills.
 - **500's & 700's** - Check coolant level cold, add 53% propylene glycol premixed with 47% water as needed.
 - **FUEL FILTER** - Remove trapped water.
 - **LOADER LIFT ARM, LIFT LINKS, CYLINDERS, BOBTACH PIVOT AND WEDGES** - 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 function. Clean dirt, debris and objects from under and/or behind the operator seat as required.
 - **TIRES** - Check air pressure. Inflate tires to MAXIMUM pressure shown on the tire sidewall. Except 864
 - **GENERAL** - Check for loose or broken parts, damaged operator cab, instrument operation, loose wheel nuts, oil leaks, damaged or missing safety signs. Repair or replace as needed.
- EVERY 30 HOURS**
- **HYDRAULIC FLUID, HOSES AND TUBELINES** - Check the fluid level. Check for damage and for leaks. Repair or replace as needed.
 - **FINAL DRIVE TRANSMISSION (CHAINCASE)** - Check the fluid level. Except 864.
 - **HYDRAULIC CONTROLS, PEDALS OR HANDS AND STEERING** - Check operation. Adjust as needed.
 - **WHEEL NUTS/SPROCKET** - Check for loose wheel nuts and tighten per Operation and Maintenance Manual.
 - **TRACK TENSION** - 864 Only. Check, adjust if needed.
- EVERY 100 HOURS**
- **SPARK ARRESTOR MUFFLER** - 500's and 700's only. Empty spark chamber, connections and electrolyte level. Add distilled water as needed.
 - **STEERING LEVER PIVOTS** - Lubricate with multipurpose lithium based grease. (3 places)
 - **ENGINE/HYD. DRIVE BELT** - 700's. Check for wear and damage. Adjust or replace as needed.
 - **BICS™** - Check lift arm bypass control.
- EVERY 500 HOURS (OR EVERY 12 MONTHS)**
- **HYDRAULIC/HYDROSTATIC SYSTEM** - Replace reservoir breather cap.
 - **EVERY 1000 HOURS (OR EVERY 12 MONTHS)**
 - **HYDRAULIC RESERVOIR** - Replace fluid.
 - **FINAL DRIVE TRANSMISSION (CHAINCASE)** - Replace fluid. Except 864.
 - **ROLLER, IDLER ASSEMBLIES** - 864 Only. Replace fluid.
- * See Operation & Maintenance Manual for more information and instructions. * Weitere Anweisungen finden sie in der Bedienungs- und Instandhaltungsanleitung. * Para más instrucciones, vea el Manual de Operación y Mantenimiento. * Voir le Manuel de l'opérateur et d'entretien pour d'autres renseignements.



SERVICE PARTS CHART

Ref. No.	Symbol	Description	553		700's		800's		864		
			Part Number	Replacement Interval	Part Number	Replacement Interval	Part Number	Replacement Interval	Part Number	Replacement Interval	
1	▲	Primary Air Filter	666647	AS REQ.	659892	AS REQ.	666375	AS REQ.	666375	AS REQ.	
2	▲	Secondary Air Filter	666648	AS REQ.	659892	AS REQ.	666376	AS REQ.	666376	AS REQ.	
3	■	Engine Oil	200M	250M	250M	500M	500M	500M	500M	500M	
4	■	Engine Oil Filter	685765	200M	307496	250M	685503	500M	685503	500M	
5	■	Chaincase Oil	1000	1000	1000	1000	1000	1000	1000	1000	
6	■	Hydraulic/Hydrostatic Oil	1000	1000	1000	1000	1000	1000	1000	1000	
7	▲	Hydraulic Drive Oil Filter	666128	500*	666128	500*	666128	500*	666128	500*	
8	▲	Drive Motor Case Drain Filter	N/A	666402	1000	666102	1000	666102	1000	666102	1000
9	▲	Coolant	672404	2 yrs	672404	2 yrs	SEE NO. 3	SEE NO. 3	SEE NO. 3	SEE NO. 3	
10	▲	Multipurpose Lithium Grease	▲	▲	▲	▲	▲	▲	▲	▲	
11	■	Wheel Foot	▲	▲	▲	▲	▲	▲	▲	▲	
12	■	Fuel Filter	666732	250	666732	250	666732	250	666732	250	

- Do not use compressed air to clean elements.
- See Your Local Bobcat Dealer
- See Operation & Maintenance Manual For More Information
- Filter element must be replaced sooner if transmission warning indicator remains on for more than 5 minutes after hydraulic fluid is at operating temperature.
- First oil change at 50 hours



Use Genuine Bobcat Replacement Parts SW 99 6718398

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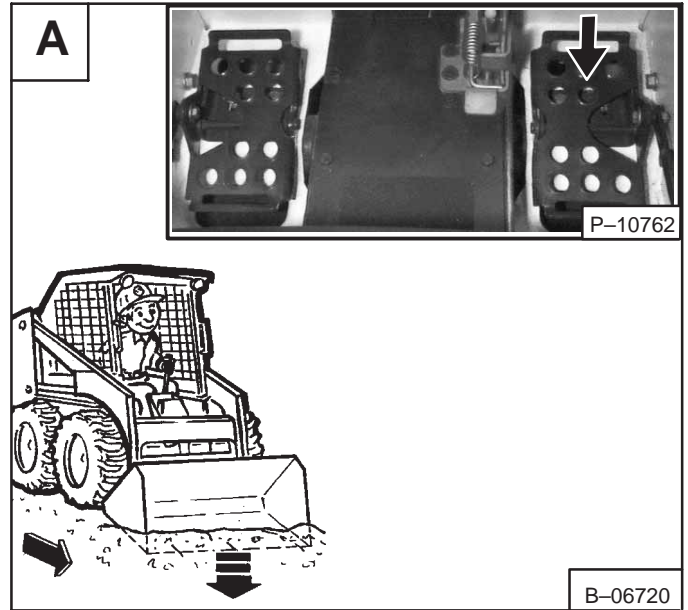
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OPERATING PROCEDURES (Cont'd)

Digging Into The Ground

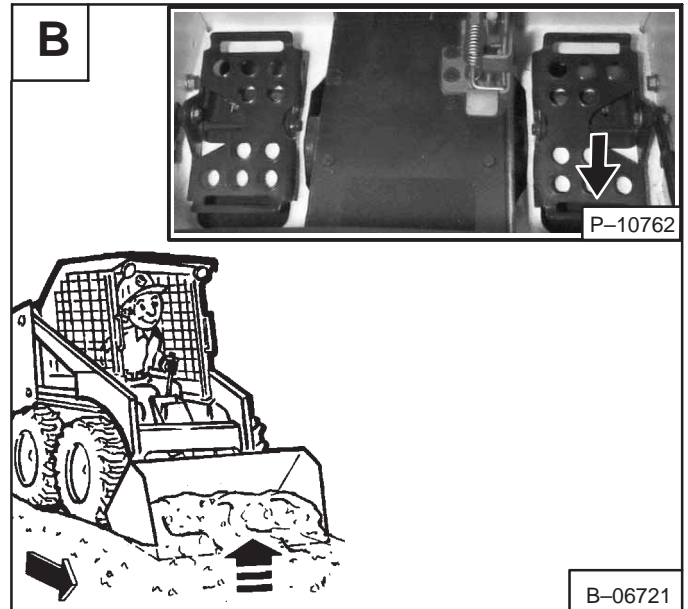
Put the lift arms all the way down. Push the top of the tilt pedal until the cutting edge of the bucket is on the ground.

Drive forward slowly and continue to tilt the bucket down until it enters the ground **[A]**.

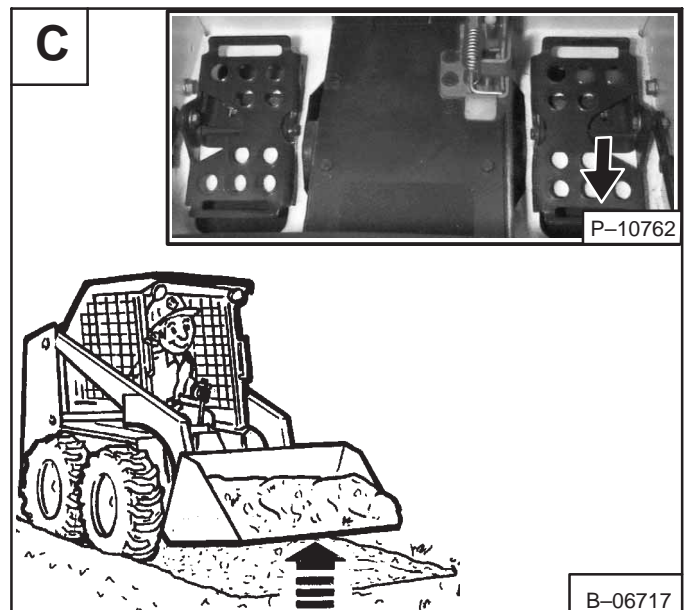


Push the bottom of the tilt pedal a small amount to increase traction and keep an even digging depth **[B]**.

Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge of the bucket with the tilt pedal while driving forward slowly.



Push the bottom of the tilt pedal to tilt the bucket backward as far as it will go when the bucket is full **[C]**.



OPERATOR CAB (Cont'd)

Emergency Exits

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

Rear Window: (If Equipped)

- Pull on the tag on the top of the rear window to remove the rubber cord [A].
- Push the rear window out of the rear of the operator cab.



Exit through the rear of the operator cab [B].



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. [C]

Pull the plastic loop at the top of the window in the front door to remove the rubber cord [C].



Push the window out with your foot [D].

Exit through the front door.



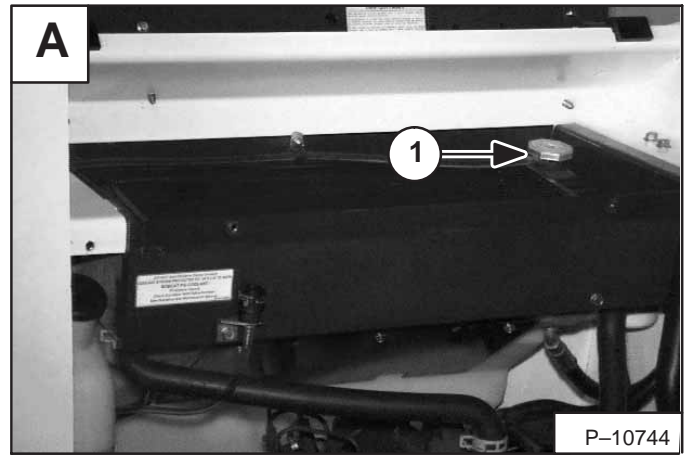
ENGINE COOLING SYSTEM (Cont'd)

Replacing The Coolant

Remove the rear grill. (See *REAR GRILL* Page 36.)

Open the rear door.

Remove the radiator cap (Item 1) [A].

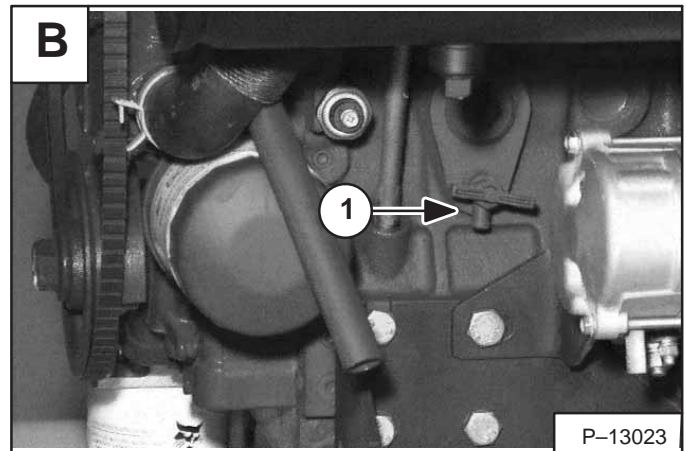


Connect a hose to the coolant drain valve (Item 1) [B] (located behind the engine oil filter) or use a funnel to keep coolant from getting into the engine compartment.

Open the valve and drain all the coolant into a container.

Close the valve.

Fill the radiator with premixed coolant and install the radiator cap. (See *Checking the Coolant Level* Page 42 for premix recommendations.)



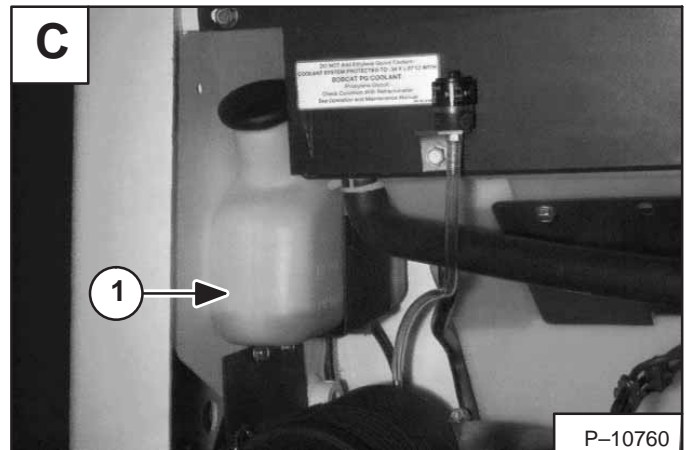
Fill the coolant recovery tank 1/3 full with premixed coolant (Item 1) [C].

Check the radiator cap for correct pressure rating or overheating can result.

Check for leaks in the cooling system. Check for worn or damaged hoses, clamps or radiator. Check for loose or worn water pump belt.

Replace damaged parts immediately to prevent leaks and overheating.

Install the radiator cap and the rear grill and close the rear door.



IMPORTANT

AVOID ENGINE DAMAGE

Always use the correct ratio of water to anti-freeze.

Too 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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BOB-TACH

Inspection And Maintenance

Move the Bob-Tach levers to engage the wedges [A]. The levers and wedges must move freely.

The wedges must extend through the holes in the attachment mounting frame (Item 1) [A].



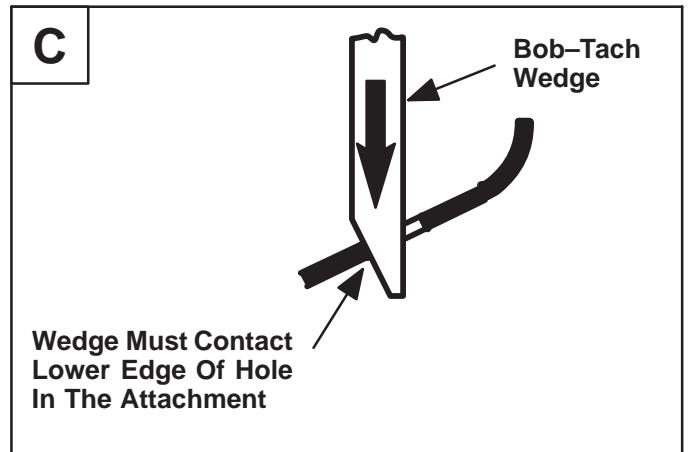
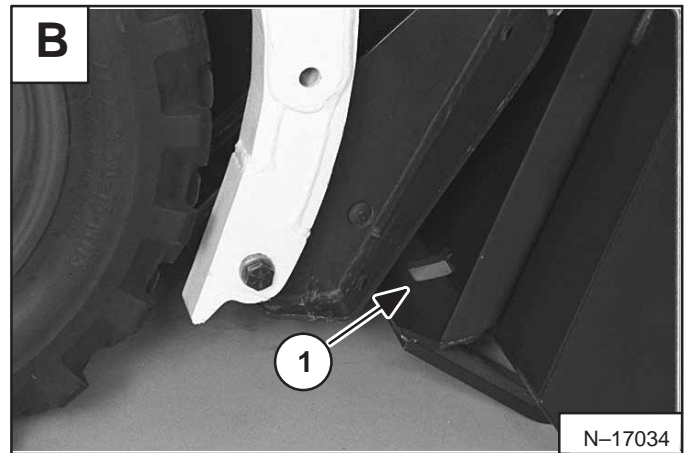
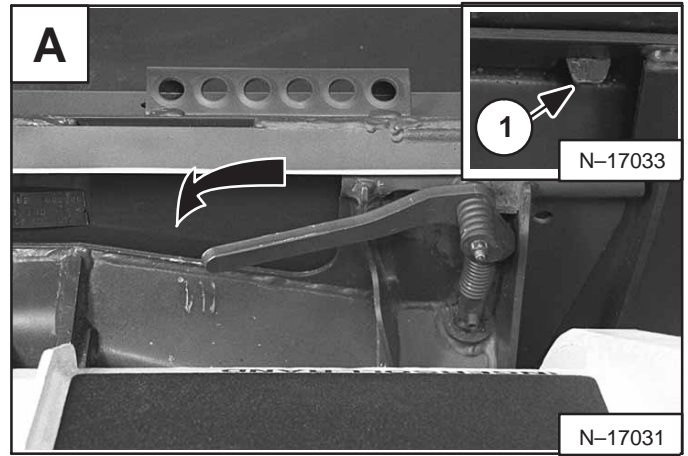
WARNING

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.

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The spring loaded wedge (Item 1) [A] must contact the lower edge of the hole in the attachment (Item 1) [B] and [C].

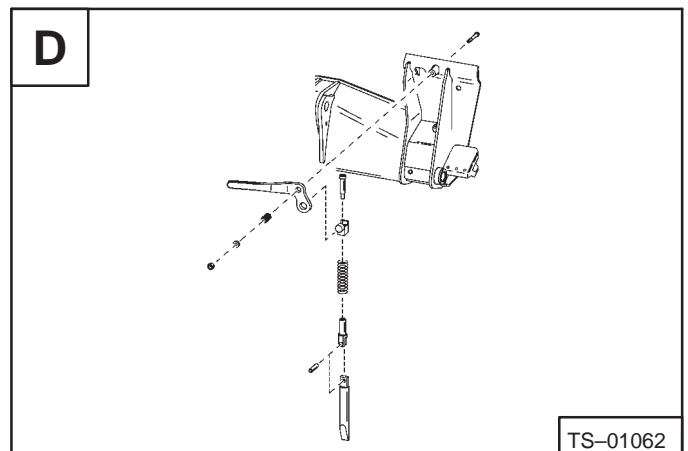
If the wedge does not contact the lower edge of the hole [B] and [C], the attachment will be loose and can come off the Bob-Tach.



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [D]. 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 *SERVICE SCHEDULE*, Page 29 and *LUBRICATION OF THE BOBCAT LOADER*, Page 51).



IMPORTANTE (SPANISH)

ESTA MAQUINA ESTA EQUIPADA POR LA FABRICA CON UN AMORTIGUADOR DE CHISPAS DEL SILENCIADOR, APROBADO POR EL SERVICIO DE SILVICULTURA DEL U.S.D.A. (DEPARTAMENTO DE AGRICULTURA DE LOS ESTADOS UNIDOS).

ES NECESARIO LIMPIAR ESTE AMORTIGUADOR DE CHISPAS DEL SILENCIADOR PARA MANTENERLO EN BUEN ESTADO. HAY QUE DARLE SERVICIO AL AMORTIGUADOR, VACIANDO LA CAMARA DE CHISPAS CADA 100 HORAS DE FUNCIONAMIENTO.

SI ESTA MAQUINA ESTA DESTINADA PARA TRABAJAR EN BOSQUES, MATORRALES O EN PASTOS QUE PUEDAN INCENDIARSE, ENTONCES TIENE QUE ESTAR EQUIPADA CON UN AMORTIGUADOR DE CHISPAS EN EL SISTEMA DEL ESCAPE Y TIENE QUE MANTENERSE EN PERFECTAS CONDICIONES DE TRABAJO. ES NO HACER ESTO CONSTITUYE UNA INFRACCION DE LA LEY ESTATAL DE CALIFORNIA, SECCION 4442, PRC.

REFIERASE A LAS LEYES Y REGULACIONES LOCALES EN CUANTO A LOS REQUISITOS DEL AMORTIGUADOR DE CHISPAS.

IMPORTANT (FRENCH)

CETTE CHARGEUSE EST EQUIPEE A LA SORTIE DE L'USINE D'UN SILENCIEUX PARA-ETINCELLES APPROUVE PAR LE SERVICE DES EAUX ET FORETS DES ETATS-UNIS.

IL EST INDISPENSABLE D'EFFECTUER UN ENTRETIEN REGULIER DE CE PARE-ETINCELLES AFIN DE LE GARDER EN BON ETAT DE MARCHE. L'ENTRETIEN CONSISTE A VIDER LA CHAMBRE A ETINCELLES TOUTES LES 100 HEURES DE MARCHE.

SI CET ENGIN EST UTILISE SUR UN TERRAIN COUVERT D'ARBRES, DE BROUSSAILLES, OU D'HERBAGES INFLAMMABLES, IL FAUT INSTALLER LE PARE-ETINCELLES ET LE GARDER EN BON ETAT DE MARCHE.

CONSULTER LES REGLEMENTATIONS LOCALES APPLICABLES.

IMPORTANT

THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR MUFFLER.

IT IS NECESSARY TO CLEAN THIS SPARK ARRESTOR MUFFLER TO KEEP IT IN WORKING CONDITION. THE SPARK ARRESTOR MUFFLER MUST BE SERVICED BY DUMPING THE SPARK CHAMBER EVERY 100 HOURS OF OPERATION.

IF THIS MACHINE IS OPERATED ON FLAMMABLE FOREST, BRUSH OR GRASS COVERED LAND, IT MUST BE EQUIPPED WITH A SPARK ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND MAINTAINED IN WORKING ORDER. FAILURE TO DO SO WILL BE IN VIOLATION OF CALIFORNIA STATE LAW, SECTION 4442, PRC.

REFER TO LOCAL LAWS AND REGULATIONS FOR SPARK ARRESTOR REQUIREMENTS.

SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

PARA MÁS INSTRUCCIONES, VEA EL MANUAL DE OPERACIÓN Y MANTENIMIENTO.

WEITERE ANWEISUNGEN FINDEN SIE IN DER BEDIENUNGS- UND INSTANDHALTUNGSANLEITUNG.

VOIR LE MANUEL DE L'OPÉRATEUR ET D'ENTRETIEN POUR D'AUTRES RENSEIGNEMENTS.

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