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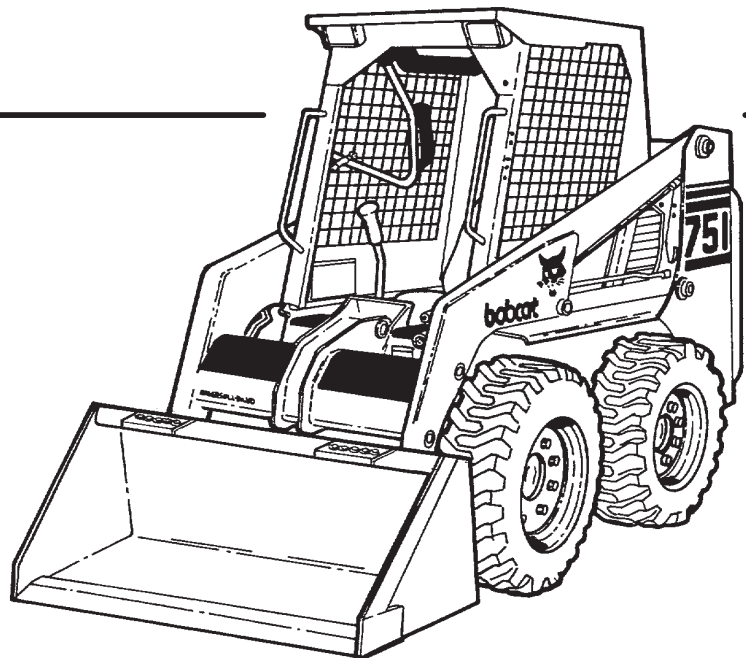


Bobcat®

Operation & Maintenance Manual

S/N 515716800 thru 515729999

S/N 515612800 thru 515619999



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6900786 (7-99) Revised (9-00)

IR Bobcat®
Printed in U.S.A.

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OPTIONS AND ACCESSORIES

Model 751 Bobcat loaders are equipped with the following standard items:

- Bob-Tach
- Spark Arrestor Muffler
- Lift Arm Support Device
- Operator Cab (with ROPS & FOPS Approval)
- Bobcat Interlock Control System (BICS™)
- Seat Belt
- Seat Bar
- Parking Brake
- Gauges/Warning Lights
- Glow Plug Preheat system
- Tires, 7.00 – 15, 6PR
- Adjustable Cushion Seat

Below is a list of some equipment available as a Factory Installed Option or as a Field Installed Accessory from your Bobcat Loader dealer. See your Bobcat dealer for other available accessories and attachments.

Tires

10–16.5, 6PR Flotation Tires (Machine Width – 54 inches)	Opt. & FA
10–16.5, 6PR Flotation Tires (Machine Width – 60 inches)	Opt. & FA
10–16.5, 8PR Bobcat Heavy Duty (Machine Width – 54 inches)	Opt. & FA
10–16.5, 8PR Bobcat Heavy Duty (Machine Width – 60 inches)	Opt. & FA
31 x 15.5–15, 8PR Ultra Grip Tread	Opt. & FA
6.50–16 Solid Tires	Opt. & FA
7.50 x 15 Air Boss Segmented Tires	FA
10 x 16.5 Air Boss Segmented Tires	FA
10 x 31 Bobcat Solid Tires	FA
7:00–15.6 PR	Std. & FA

Operator Cab

Sound Cab (Reduces Noise at Operator's Ear)	Opt.
Deluxe Cab	Opt. & FA
Operating Lights (Front & Rear)	Opt. & FA
Horn	FA
Back-up Alarm	Opt. & FA
Top Window	FA
Rear Window	FA
Cab Enclosure and Heater	Opt. & FA
Vinyl Cab Enclosure	FA
Cover Kit (Pedals Area)	FA
Cover Kit (Hydraulic Reservoir Area)	FA
Fire Extinguisher	FA
Flasher Lights	FA
Strobe or Rotating Beacon Light	FA
3" Seat Belt	FA
Special Applications Kit*	FA
Suspension Seat	Opt. & FA
Rear Window Wiper	FA
Keyless Start System	FA
Large Operator Seat Bar Kit	FA
Advanced Hand Controls	Opt.

Opt. = Factory Installed Option

FA = Field Accessory

* Includes 1/2 inch Lexan Front Door; 1/4 inch Lexan Top & Rear Windows

Hydraulics

Front Auxiliary Hydraulics	Opt. & FA
Rear Auxiliary Hydraulics	Opt. & FA
Hydraulic Bucket Positioning (Includes On/Off Selection)	Opt. & FA

Other

Catalytic Exhaust Purifier	Opt. & FA
Engine Block Heater	Opt. & FA
Single Point Lift or Four Point Lift	FA
Locking Fuel Cap	FA
Radiator Screen Kit	FA
Tailgate Lock	FA
Tool Box	FA
Counterweight Kit	FA

**Specifications subject to
change without notice**

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OPERATING INSTRUCTIONS

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HYDRAULIC CONTROLS

Foot Pedals



WARNING

Keep both feet on pedals while operating machine. Failure to do so can cause serious injury.

W-2002-1285

Put your feet on the pedals and KEEP THEM THERE any time you operate the loader.

Two foot pedals (Item 1) [A] control the hydraulic cylinders for the lift and tilt functions.

Lift Arm Operation

The *left pedal* controls the lift arms.

Push on the bottom (heel) (Item 2) [A] of the pedal to raise the lift arms.

Push on the top (toe) (Item 3) [A] of the pedal to lower the lift arms.

Lift Arm Float Position

Push the top (toe) (Item 3) [A] of the pedal all the way forward until it locks into the *float* position.

Use the *float* position of the lift arms to level loose material while driving backward.

Push the bottom (heel) of the lift pedal to unlock from the *float* position.

Tilt Operation

The *right pedal* controls the action of the bucket.

Push the top (toe) (Item 4) [A] of the pedal to tilt the bucket forward.

Push the bottom of the pedal (heel) (Item 5) [A] to tilt the bucket backward.

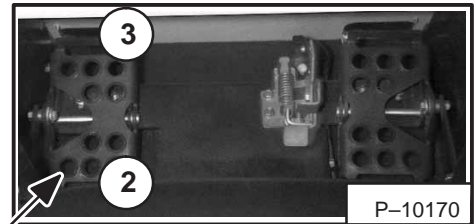
Bucket Position Valve Operation (If Equipped)

The function of the bucket position valve is to keep the bucket in the same approximate position it is placed in before beginning the upward lift cycle.

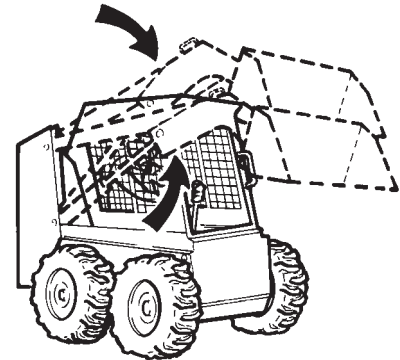
Bucket positioning functions during the upward lift cycle only.

The bucket positioning function can be turned OFF with the bucket level switch. (See Page 3.)

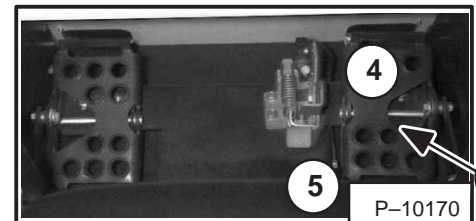
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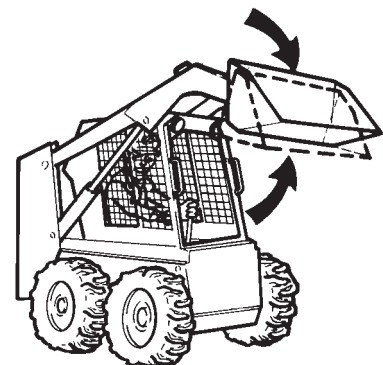
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ATTACHMENTS AND BUCKETS

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

! WARNING

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-2052-1285

The dealer can identify, for each model loader, the attachments and buckets approved by Bobcat Company. The buckets and attachments are approved for rated operating capacity and for secure fastening to the Bob-Tach.

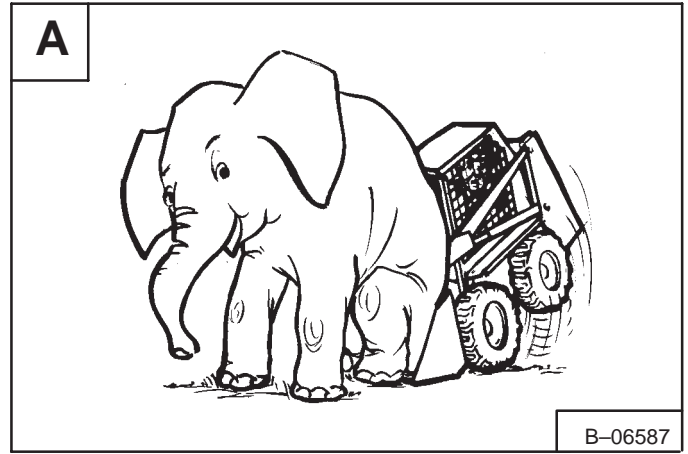
The rated operating capacity for this loader is shown on a label in the operator cab. (See *SPECIFICATIONS* Page 87.) It is determined by using a standard dirt bucket, and material of normal density, such as dirt or dry gravel. If longer buckets are used, the load center moves forward and reduces the rated operating capacity. If very dense material is loaded, the volume must be reduced.

Exceeding the rated operating capacity **[A]** can cause the following problems:

1. Steering the loader may be difficult.
2. Tires will wear faster.
3. There will be a loss of stability.
4. The life of the Bobcat loader will be reduced.

Use the correct size bucket 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.

Maximum load to be carried when using a pallet fork are shown in figure **[B]**. See your Bobcat dealer for more information about pallet forks and other available attachments.



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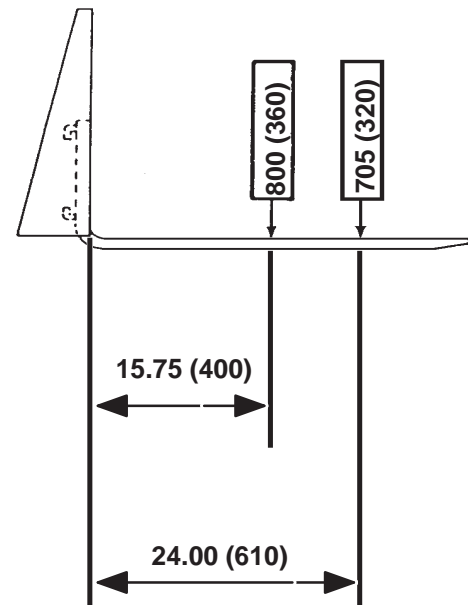
! WARNING

AVOID INJURY OR DEATH

Do not exceed Rated Operating Capacity. Excessive load can cause tipping or loss of control.

W-2053-0887

B WEIGHT OF LOADS LBS. (KG) (Without counterweights)



CENTER OF LOAD LOCATION Inches (mm)

6712931
6712932

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TRANSPORTING THE BOBCAT LOADER

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

When a loader has an empty bucket or no attachment, always drive backward onto the transport vehicle [A].

The rear of the trailer must be blocked or supported [A] when loading or unloading the loader to prevent the front end of the trailer from raising up.

Be sure the transport and towing vehicles are of adequate size and capacity. (See *SPECIFICATIONS* Page 87, for weight of loader.)

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 [B].

- 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 (Inset [B]).
- Fasten each end of the chain to the transport vehicle.

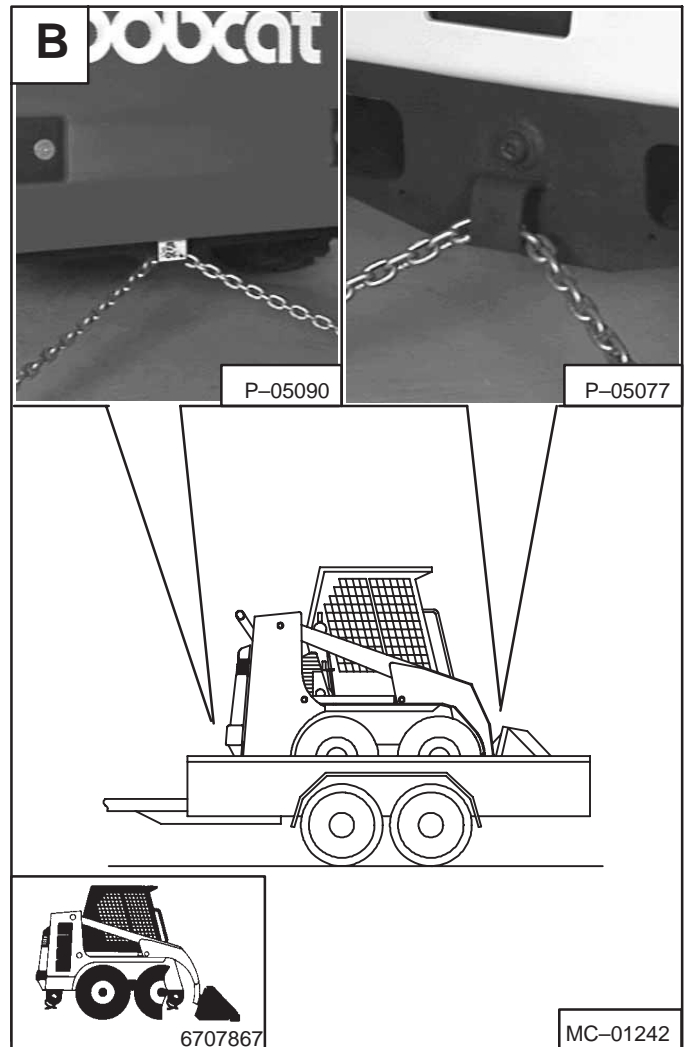
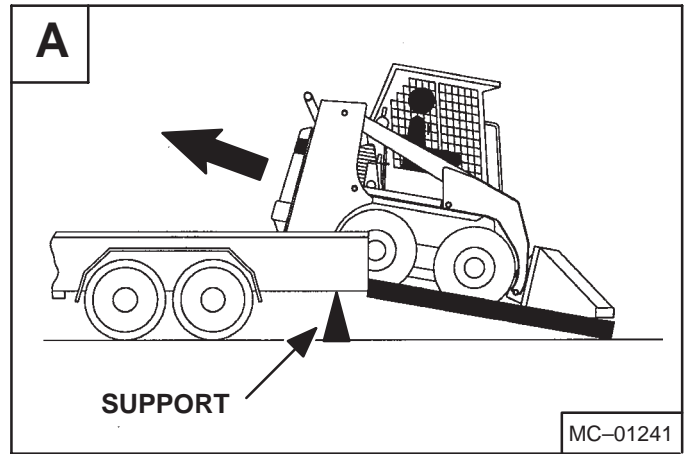
TOWING THE LOADER

To prevent damage to the loader's hydrostatic system, tow the loader only a short distance at slow speed. (Example: Moving the loader onto a transport vehicle).

The towing chain (or cable) must be rated at 1 & 1/2 times the weight of the loader. (See *SPECIFICATIONS* Page 87.)

- Turn the key switch to ON and press the traction lock override button.
- Tow the Bobcat at 2 MPH (3,2 km/hr) or less for not more than 25 feet (7,6 meters).

If the electrical system is not functioning, contact your Bobcat loader dealer. (Part of the brake system must be disassembled to move the loader.)



OPERATOR CAB (Cont'd)

Lowering The Operator Cab



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.

Pull down on the bottom of the operator cab until it stops at the latching mechanism.

Release the latching mechanism and pull the cab all the way down **[A]**.

With Mechanical Hand Controls Only: Move the control linkage from the top hole to the **BOTTOM** hole (work position) on the control handle (both sides) **[B]**.

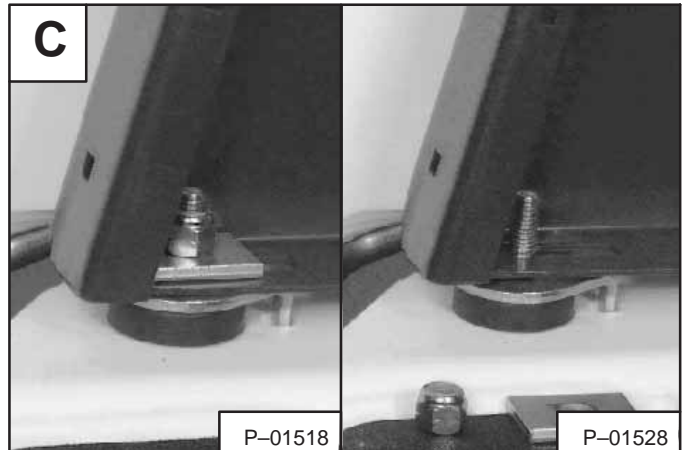
Install the plate and nut (both sides) **[C]**.

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

IMPORTANT

Use care when raising or lowering the operator cab to prevent damaging the shaft of the lift arm by-pass control.

I-2070-0596



FUEL SYSTEM (Cont'd)

Removing Air From The Fuel System

After replacing the fuel filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system prior to 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

Open the vent (Item 1) **[A]** on the fuel filter housing.

Operate the hand pump (priming bulb) (Item 2) **[A]** until fuel flows from the vent with no air bubbles.

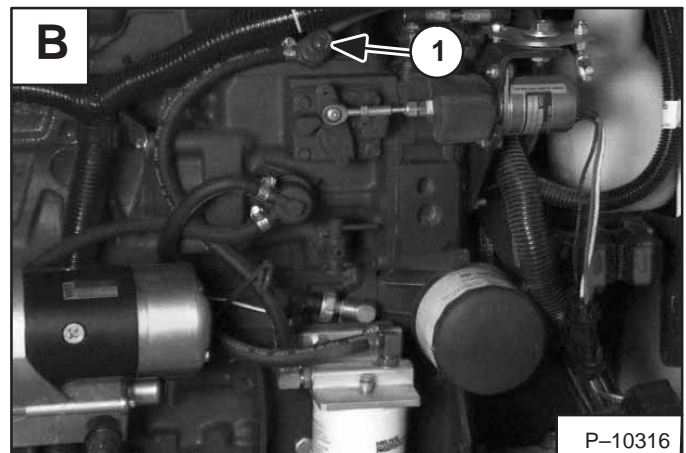
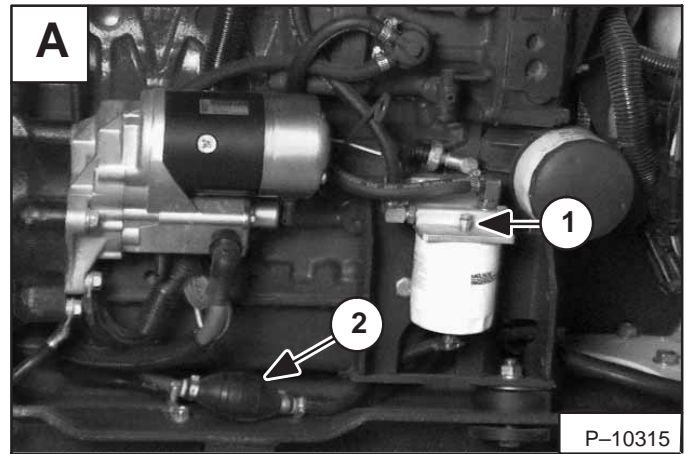
Close the vent (Item 1) **[A]** on the fuel filter housing.

Open the vent (Item 1) **[B]** on the fuel injection pump.

Operate the hand pump (priming bulb) (Item 2) **[A]** until the pump feels solid.

Tighten the vent plug **[B]**.

Start the engine. It may be necessary to open the vent plug (at the fuel injection pump) briefly until the engine runs smoothly.



HYDRAULIC/HYDROSTATIC SYSTEM

Checking And Adding Fluid

Use only recommended fluid in the hydraulic system.
(See *SPECIFICATIONS* Page 87.)

Stop the loader on a level surface.

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

Stop the engine.

Remove the dipstick (Item 1) [A].

The fluid level must be between the marks on the dipstick [B].

If fluid is needed, remove the fill cap (Item 2) [A].

Clean the hydraulic reservoir fill screen [C].

Add the fluid as needed to bring the level to the top mark on the dipstick [B].

Replacing Hydraulic/Hydrostatic Filter

See the *SERVICE SCHEDULE* Page 37 for the correct service interval.

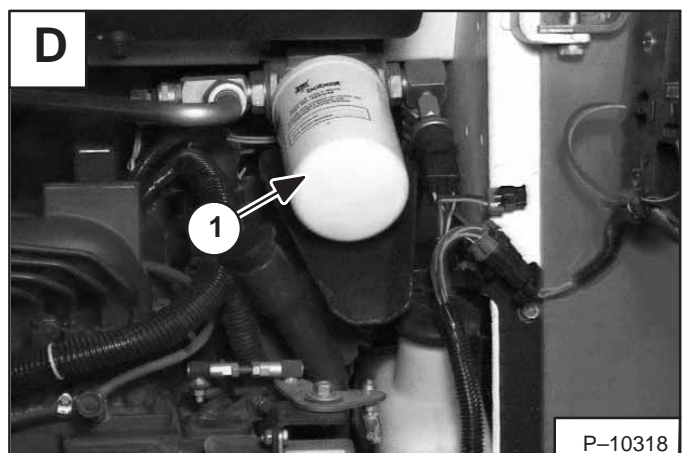
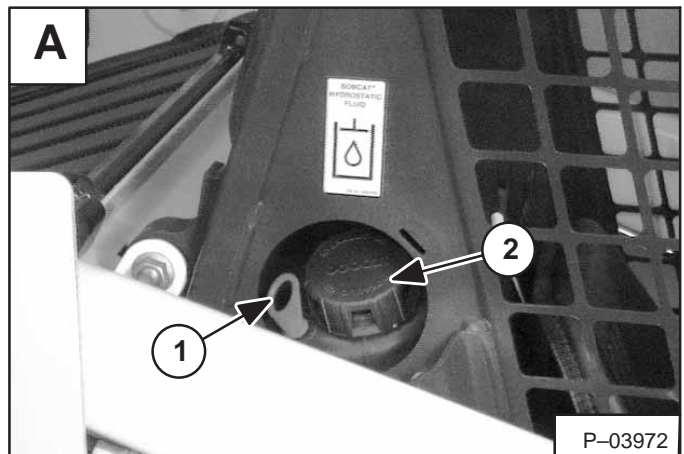
Open the rear door.

Remove the filter element (Item 1) [D].

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

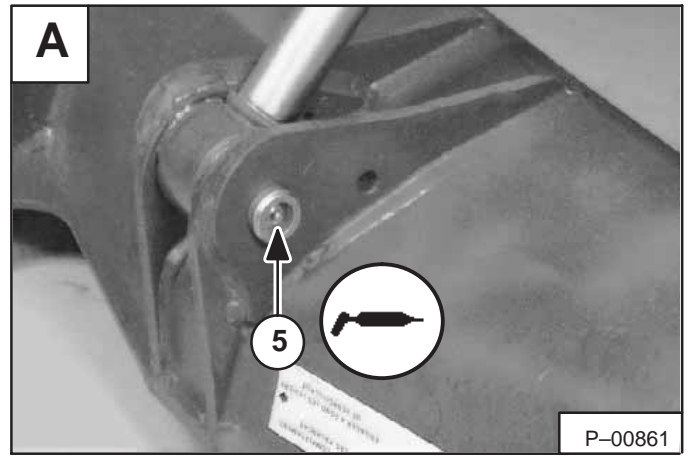
Put clean oil on the rubber seal of the filter element.

Install and hand tighten the filter element.



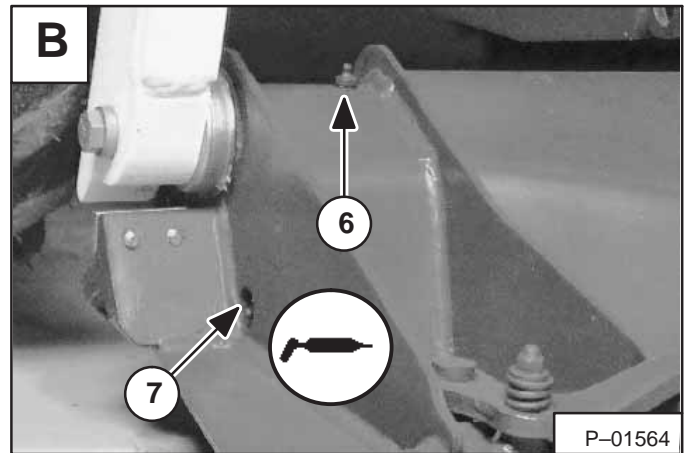
LUBRICATING THE BOBCAT LOADER (Cont'd)

5. Rod End Tilt Cylinder [A].

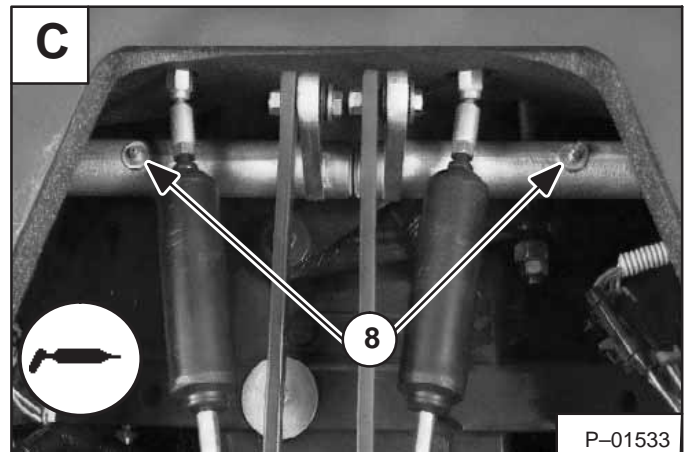


6. Bob-Tach Pivot Pin (Both Sides) [B].

7. Bob-Tach Wedge (Both Sides) [B].



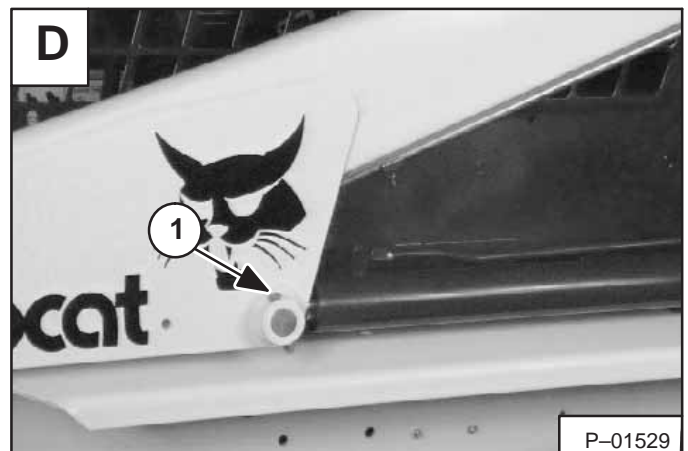
8. 250 Hours: Steering Lever Shaft (2) [C].



PIVOT PINS

All lift arm and cylinder pivots have a large pin held in position with a retainer bolt and lock nut (Item 1) [D].

Check that the lock nuts are tightened to 18–20 ft.-lbs. (24–27 Nm) torque.



- **LÍNEA DE DESPLAZAMIENTO** – modelos 500 solamente. Lubrique la junta U.
- **ENGRANAJE DEL VENTILADOR** – revise el nivel del fluido.
- Revise todas las correas de desplazamiento. Revise el estado y la tensión de la bomba hidrostática y de agua, el alternador y el desplazamiento del ventilador. Ajuste o cambie según sea necesario.
- **BICS^{MR}** – revise el control de desvío de los brazos de elevación.

CADA 500 HORAS (O CADA 12 MESES)

- **SISTEMA HIDRÁULICO/HIDROSTÁTICO** – cambie la tapa del respiradero del depósito.

CADA 1000 HORAS (O CADA 12 MESES)

- **DEPÓSITO HIDRÁULICO** – cambie el fluido.
- **TRANSMISIÓN DE DIRECCIÓN FINAL (CAJA DE CADENAS)** – cambie el fluido.

AVERTISSEMENT (FRENCH)

ÉVITEZ DES BLESSURES OU LA MORT

- Gardez la portière fermée, sauf en cas d'intervention de service.
- Gardez la région du moteur exempte de matières inflammables.
- Gardez toute partie du corps, tout objet lâche et toute pièce de vêtement à l'écart des points de contact électrique, des pièces en mouvement, des parties chaudes et de l'échappement.
- N'utilisez pas la chargeuse dans des espaces contenant des poussières explosives, des gaz explosifs ou des matières inflammables pouvant se trouver à proximité de l'échappement.
- Tous les gaz d'échappement peuvent être mortels. Prévoyez toujours une ventilation.
- N'utilisez jamais d'éther ni de fluide de démarrage avec un moteur diesel comportant des bougies de préchauffage. N'utilisez que des auxiliaires de démarrage approuvés par le fabricant du moteur.
- Des fluides qui fuient sous pression peuvent pénétrer la peau et provoquer de graves lésions. Consultez un médecin immédiatement. Portez des lunettes de protection. Utilisez des morceaux de carton pour vérifier toute fuite.
- L'acide que contiennent les batteries provoque de graves brûlures; portez des lunettes de protection. En cas de contact avec les yeux, la peau ou les vêtements, rincez à grande eau. S'il y a eu contact avec les yeux, rincez à fond et consultez un médecin.
- Les batteries produisent des gaz inflammables et explosifs. Tenez à distance toute source d'arcs électriques, d'étincelles et de flammes, ainsi que tout produit de tabac allumé.
- Pour effectuer des démarrages avec câbles d'appoint, reliez en dernier le câble négatif au moteur de la chargeuse (jamais à la batterie). Après le démarrage, enlevez d'abord la connexion négative au moteur.

CALENDRIER D'ENTRETIEN (FRENCH)

TOUTES LES 10 HEURES (AVANT DE DÉMARRER LA CHARGEUSE)

- **HUILE MOTEUR** – Vérifiez le niveau, et faites l'appoint au besoin. Évitez de remplir à l'excès.
- **FILTRE À AIR DU MOTEUR** – Vérifiez la jauge /ou l'affichage. N'effectuez d'entretien que si nécessaire.
- **CIRCUIT D'AIR DU MOTEUR** – Vérifiez s'il y a des fuites et si des composants sont endommagés.
- **CIRCUIT DE REFROIDISSEMENT DU MOTEUR** – Débarrassez le refroidisseur d'huile et les grillages de tous débris.
Modèles 500 et 700 – Vérifiez le niveau de liquide de refroidissement, à froid; ajoutez au besoin un mélange préparé constitué de 53 p. 100 de propylène glycol et de 47 p. 100 d'eau.

- **FILTRE À CARBURANT** – Éliminez l'eau retenue.
- **BRAS DE LEVAGE, AXES DE LEVAGE, VÉRINS, PIVOTS BOBTACH ET CLAVETTES** – Lubrifiez avec une graisse à base de lithium de type universel.
- **CEINTURE DE SÉCURITÉ, ARCEAU DE SÉCURITÉ ET ENCLENCHEMENTS SOLIDAIRES** – Vérifiez leur bon fonctionnement. Réparez ou remplacez au besoin. Débarrassez les pièces mobiles de toute saleté et de tous débris.
- **BICSTM** – Vérifiez le bon fonctionnement. Débarrassez le dessous /ou l'arrière du siège de l'opérateur de tous débris, saletés et objets divers, le cas échéant.
- **PNEUS** – Vérifiez la pression d'air. Gonflez à la valeur de pression MAXIMALE qui est indiquée sur le flanc du pneu.
- **GÉNÉRAL** – Vérifiez si des pièces sont desserrées ou brisées, si la cabine de l'opérateur est en bon état, si les instruments fonctionnent correctement, si les écrous de roue sont bien serrés, s'il y a fuites d'huile, si des enseignes de sécurité sont endommagées ou ont été arrachées. Réparez ou remplacez au besoin.

TOUTES LES 50 HEURES

- **FLUIDE HYDRAULIQUE, TUYAUX SOUPLES ET TUBULURES** – Vérifiez le niveau du fluide. Vérifiez s'il y a des dommages et fuites. Réparez ou remplacez au besoin.
- **TRANSMISSION FINALE (CARTER GARDE-CHAÎNE)** – Vérifiez le niveau de liquide à transmission.
- **COMMANDES HYDRAULIQUES (À PÉDALE OU MANUELLES) ET DIRECTION** – Vérifiez le bon fonctionnement. Réglez au besoin.
- **ÉCROUS DE ROUE** – Vérifiez si des écrous de roue sont desserrés et, le cas échéant, resserrez suivant les indications du Manuel de l'opérateur et d'entretien.

TOUTES LES 100 HEURES

- **SILENCIEUX PARE-ÉTINCELLES** – Modèles 500 et 700 seulement – Videz la chambre d'étincelles.
- **BATTERIE** – Vérifiez si la batterie est endommagée; vérifiez les dispositifs de retenue, les câbles, les connexions ainsi que le niveau d'électrolyte. Ajoutez de l'eau distillée au besoin.

TOUTES LES 250 HEURES (OU TOUS LES 12 MOIS)

- **AXES DE LEVIER DE DIRECTION** – Lubrifiez (trois points de graissage) avec une graisse à base de lithium de type universel.
- **COURROIE DE TRANSMISSION** – Modèles 700 – Vérifiez l'état d'usure et d'endommagement. Réglez ou remplacez au besoin. *Vérifiez toute nouvelle courroie de transmission au bout de 50 heures de service, et réglez-la au besoin.
- **ARBRE DE TRANSMISSION** – Modèles 500 seulement – Lubrifiez le joint universel.
- **CARTER D'ENGRENAGES D'ENTRAÎNEMENT DU VENTILATEUR** – Vérifiez le niveau d'huile.
- Vérifiez tous les entraînements par courroie. Vérifiez l'état et la tension des entraînements de pompe hydrostatique, de pompe à eau, d'alternateur et de ventilateur. Réglez ou remplacez au besoin.
- **BICSTM** – Vérifiez la commande de dérivation du bras de levage.

TOUTES LES 500 HEURES (OU TOUS LES 12 MOIS)

- **SYSTÈME HYDRAULIQUE/HYDROSTATIQUE** – Remplacez le chapeau de reniflard du réservoir.

TOUTES LES 1000 HEURES (OU TOUS LES 12 MOIS)

- **RÉSERVOIR HYDRAULIQUE** – Remplacez le fluide hydraulique.
- **TRANSMISSION FINALE (CARTER GARDE-CHAÎNE)** – Remplacez le liquide à transmission.

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