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SERVICE SCHEDULE

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.



WARNING

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

W-2003-1289

SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	8-10	50	250	500	1000	3000
Engine Oil	Check the oil level and add oil as needed.						
Engine Air Cleaner	Check condition indicator or display panel. Service only when required.						
Engine Cooling System	Clean debris from oil coolers & grill.						
Lift Arms, Cyl., Bob-Tach Pivot Pins and Wedges	Lubricate with multi-purpose lithium based grease (12 places).						
Engine Air System	Check for leaks and damaged components.						
Tires	Check for damaged tires and correct air pressure.						
Seat Belt, Seat Bar & Pedal Interlocks	Check the condition of seat belt. Check the seat bar and foot pedal interlocks for correct operation. Clean dirt and debris from moving parts.						
Bobcat Interlock Control System (BICS™)	Check BICS™ functions. Clean dirt, debris or objects from under or behind seat and around brake pedal as required.						
Safety Signs and Safety Treads	Check for damaged signs (decals) and safety treads. Replace any signs or safety treads that are damaged or worn.						
Operator Cab	Check the fastening bolts, washers and nuts. Check the condition of cab.						
Fuel Filter	Remove the trapped water.						
Hyd. Fluid, Hoses and Tubelines	Check fluid level & add as needed. Check for damage & leaks. Repair or replace as needed.						
Final Drive Trans.(Chaincase)	Check oil level.						
Battery	Check battery for damage, hold downs, cables, connections and electrolyte level. Add distilled water as needed.						
Foot Pedals and Steering	Check for correct operation. Repair or adjust as needed.						
Wheel Nuts	□ Check for loose wheel nuts and tighten to 105-115 ft.-lbs. (142-156 Nm) torque.						
Parking Brake	Check operation of the brake.						
Alternator Belt	Check tension and adjust as needed.						
Engine/Hydro. Drive Belt	* Check for wear or damage. Check idler arm stop.						
Fuel Filter	Replace filter element.						
Steering Shaft	Grease three fittings.						
Hydraulic Reservoir Breather Cap	Replace the reservoir breather cap.						
Hyd./Hydro. Filter	● Replace the filter element.						
Engine Oil and Filter	† Replace oil and filter. Use CD or better grade oil and Melroe filter.						
Final Drive Trans.	Replace the oil in the chaincase.						
Hydraulic Reservoir	Clean or replace the fluid.						
Hydraulic Motors	Clean or replace the case drain filters.						
Bobcat Interlock Control System (BICS™)	Check lift arm by-pass control.						
Fan Drive Gearbox	Check gear lube level.						
Engine Valves	∞ Adjust the engine valves.						
Engine Timing Belt	◇ Replace the timing belt and belt tensioner assy.						

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

● Also replace hydraulic/hydrostatic filter element when the transmission warning light comes ON.

■ Or every 12 months.

* Inspect the new belt after first 50 hours.

† After the first 50 hours.

∞ After the first 500 hours on new engine, adjust engine valves; 1000 hours thereafter. (See Service Manual for procedure.)

◇ Or every 5 years.

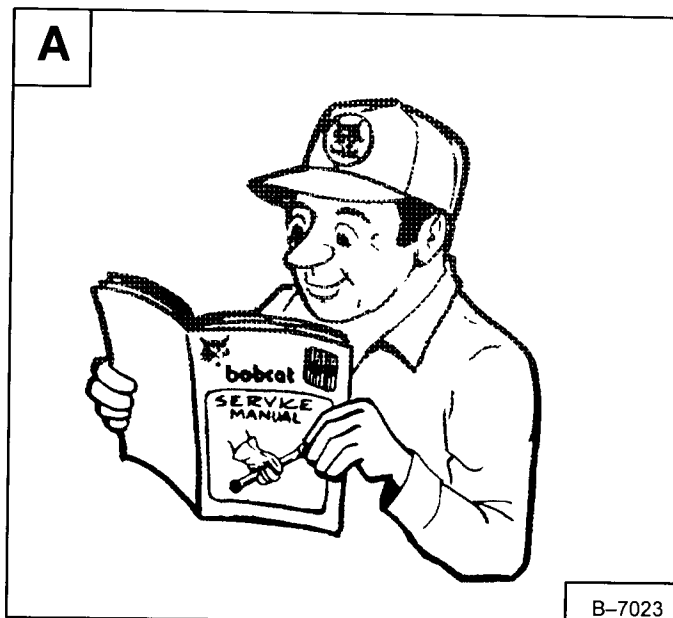
PREVENTIVE MAINTENANCE

WARNING

Instructions are necessary before operating or servicing machine. Read Operation & Maintenance Manuals, 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. Failure to follow instructions can cause injury or death.

W-2003-1289

Read the Removal & Installation, Disassembly & Assembly, etc. completely to become familiar with the procedure before beginning [A].



LIFTING AND BLOCKING THE LOADER

Procedure

Always park the loader on a level surface.

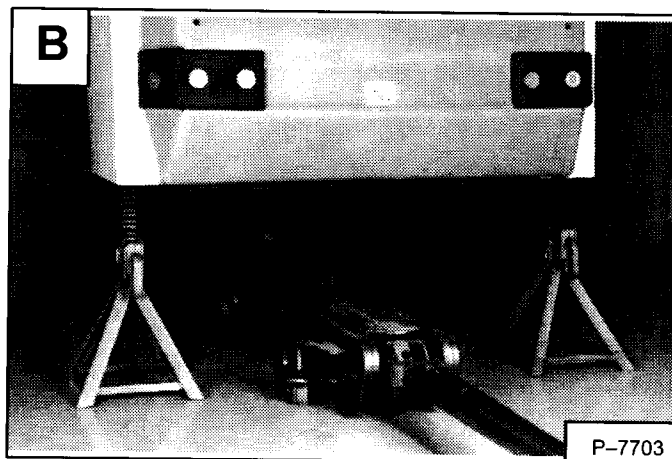
WARNING

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

Put floor jack under the rear of the loader [B].

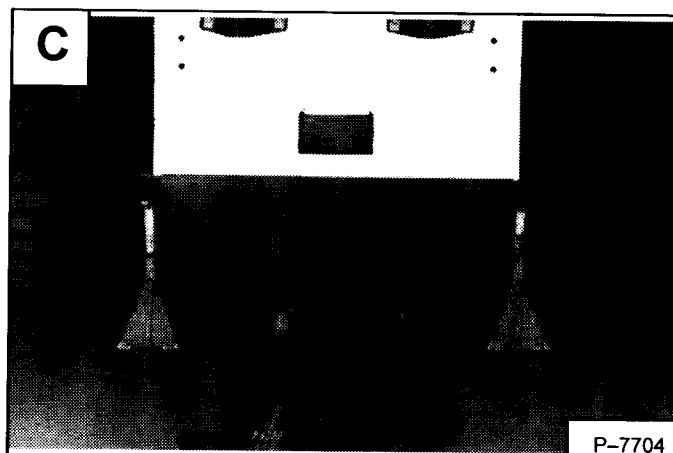
Lift the rear of the loader and install jackstands [B].



Put the floor jack under the front of the loader [C].

Lift the front of the loader and put jackstands under the axle tubes [C].

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



TRANSPORTING THE 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

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

Be sure the transport and towing vehicles are of adequate size and capacity.

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 and tighten the chain with a chain tightener.

The Inset [B] shows the decal with attachment points for towing and tie down.

TOWING THE LOADER

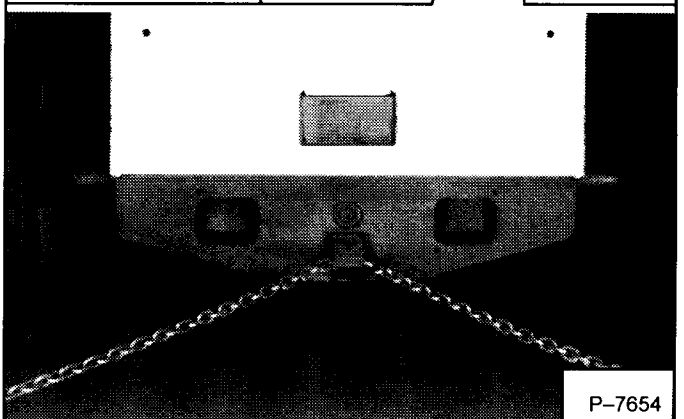
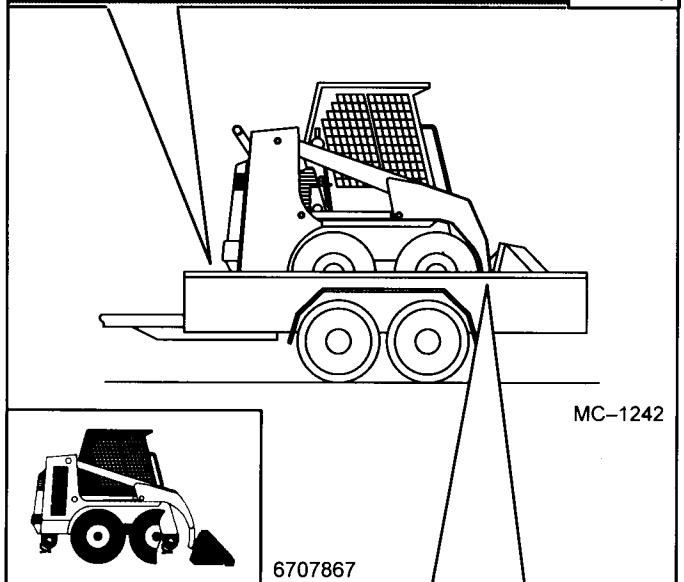
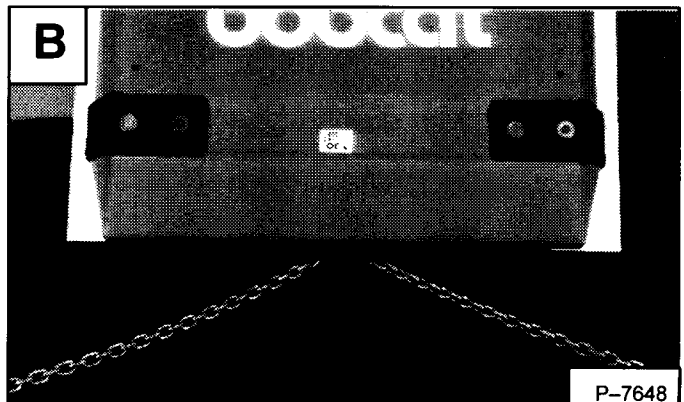
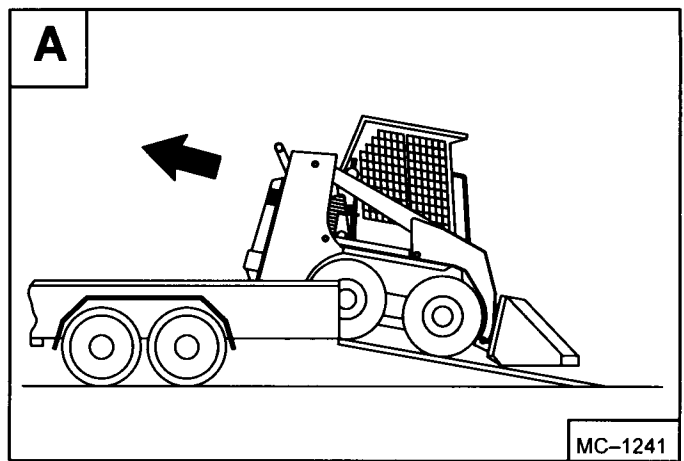
Procedure

To prevent damage to the loader's hydrostatic system, the loader must be towed 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 *Specification*, Page 9-1.)

- 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, part of the brake system must be disassembled to move the loader. See Traction Lock removal and installation procedure. (See Page 8-1.)



LIFT ARM SUPPORT DEVICE



WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by a 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-2059-0991

To Install the Lift Arm Support Device

Maintenance and service work can be done with the lift arms lowered. If the lift arms must be raised for service, use the following procedure:

Put jackstands under the rear corners of the loader.

Disconnect the spring from the retaining pin (Item 1) [A], hold onto the lift arm support device (Item 2) [A] and remove the retaining pin.

Lower the lift arm support device on top of the lift cylinder. Hook the free end of the spring (Item 1) [B] to the lift arm support device so there will be no interference with the support device engagement.

With the operator in the seat, seat belt fastened and seat bar lowered, start the engine.

Raise the lift arms, until the lift arm support device drops onto the lift cylinder rod [C].

Lower the lift arms slowly until the support device is held between the lift arm and the lift cylinder. Stop the engine. Raise the seat bar and move pedals until both pedals lock.

Install pin (Item 1) [C] into the rear of the lift arm support device below the cylinder rod.

To Remove the Lift Arm Support Device

Remove the pin from the lift arm support device (Item 1) [C].

Connect the spring (Item 1) [D] from the lift arm support device to the bracket below the lift arms.

With the operator in the seat, seat belt fastened and seat bar lowered, start the engine.

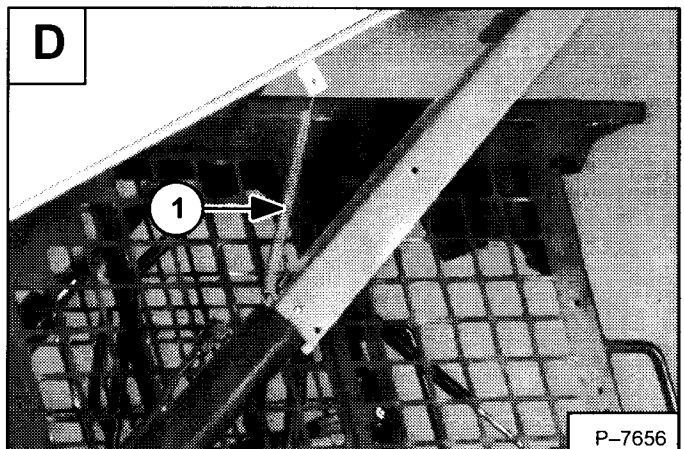
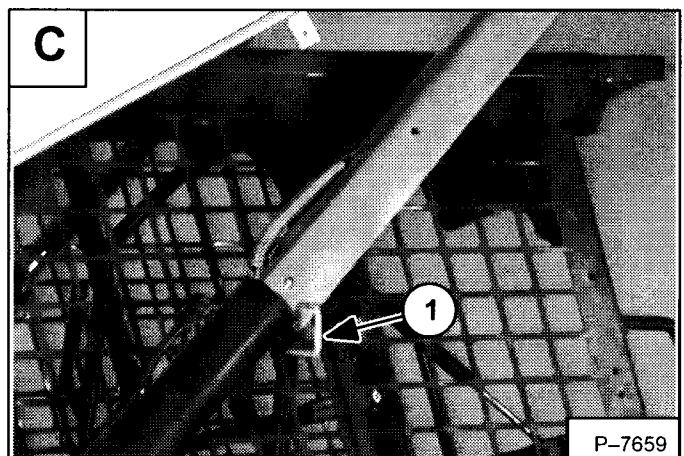
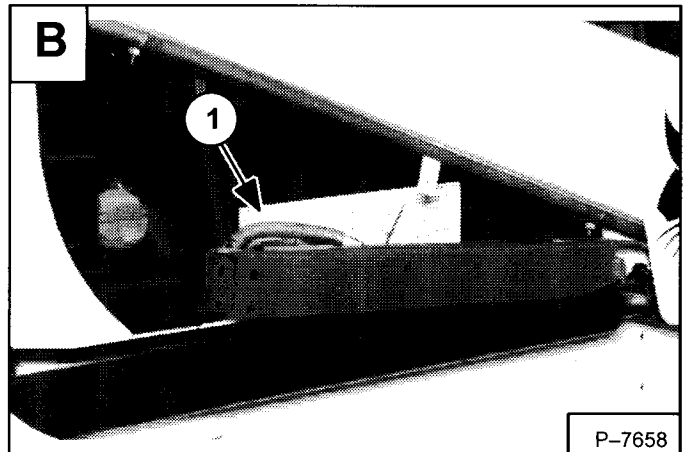
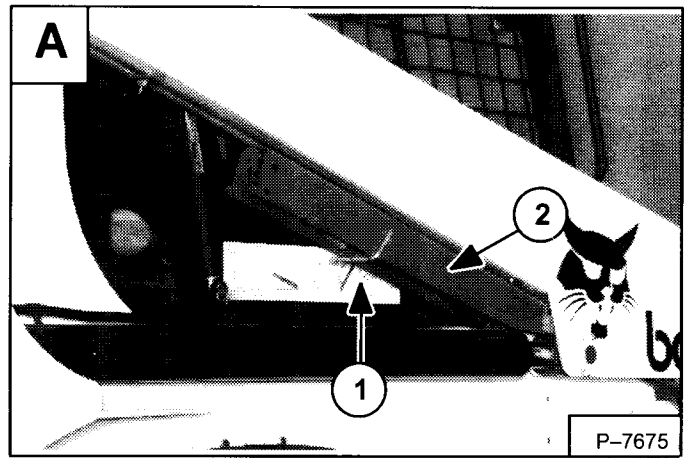
Raise the lift arms a small amount and the spring will lift the support device off the lift cylinder rod. Lower the lift arms. Stop the engine.

Raise the seat bar and move pedals until both pedals lock.

Disconnect the spring from the bracket.

Raise the support device into storage position and insert pin through lift arm support device and bracket [A].

Connect spring to the retaining pin (Item 1) [A].



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.

WARNING

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

W-2069-1285

ROPS/FOPS – Roll-Over Protection 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.

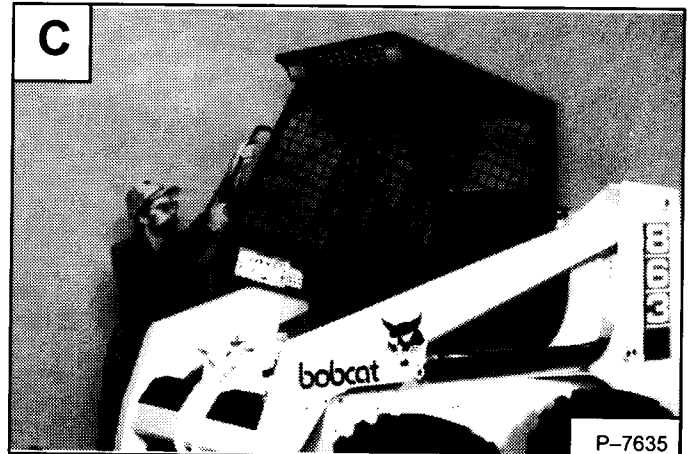
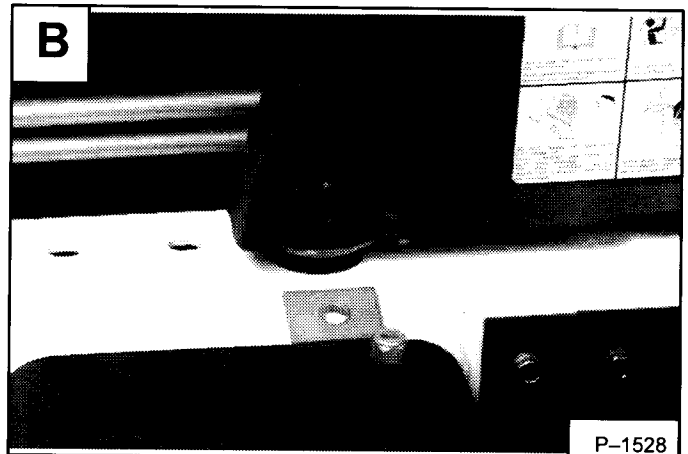
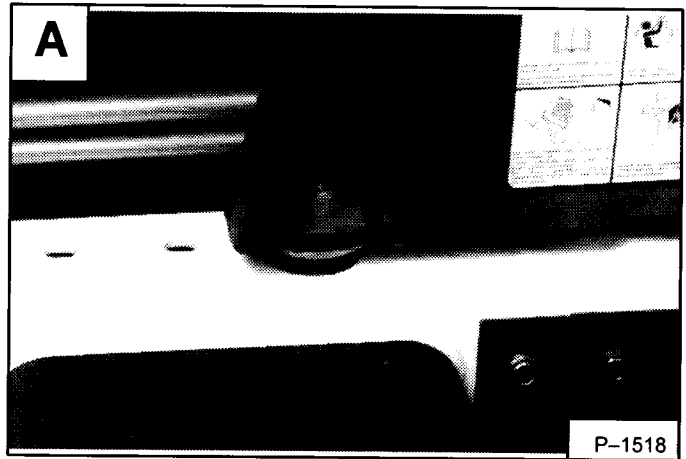
Raising the Operator Cab

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 Page 1-6.)

Loosen the nut (both sides) at the front corner of the operator cab [A].

Remove the nut and plate (both sides) [B].

Lift on the grab handle and bottom of the operator cab. Raise slowly until the cab latching mechanism engages and the cab is all the way up [C].



IMPORTANT

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

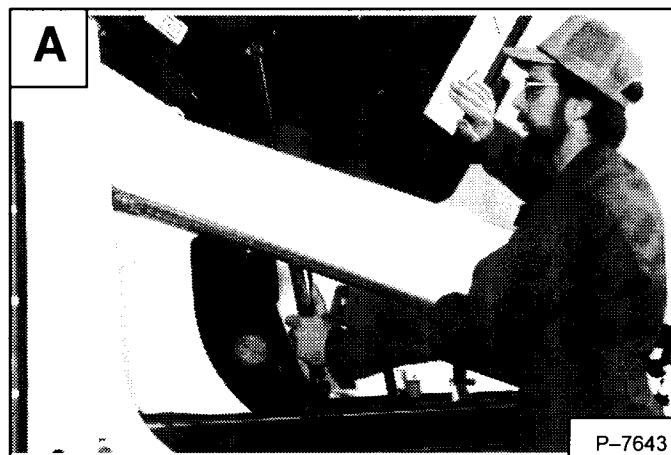
I-2070-0495

OPERATOR CAB (Cont'd)

Lowering the Operator Cab

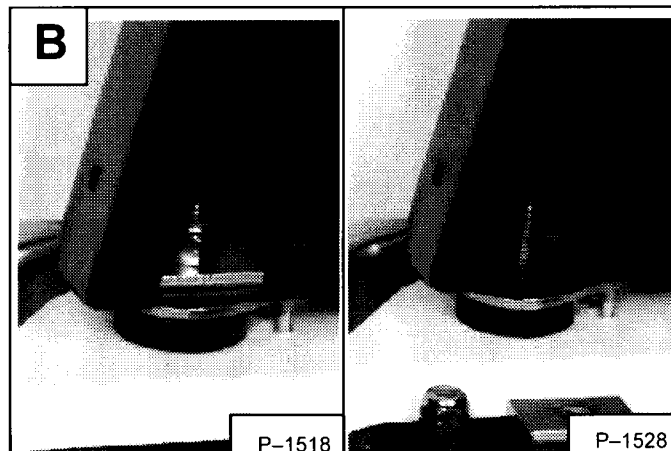
NOTE: Make sure the seat bar is fully raised or lowered when lowering the cab.

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]**.



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

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

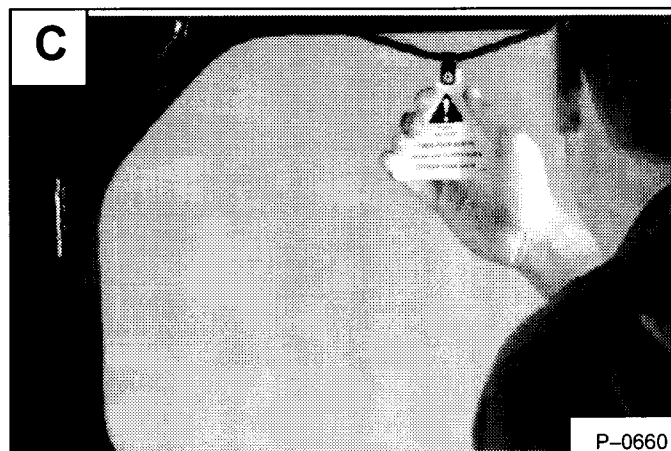


Emergency Exit

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

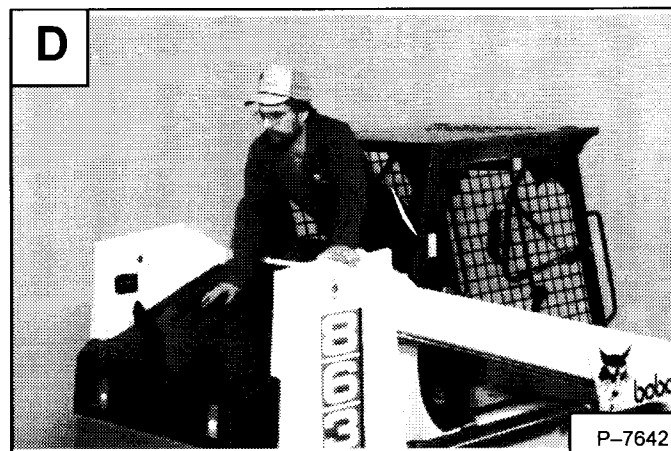
To exit through the rear window, use the following procedure:

Pull on the tag on the top of the rear window to remove the rubber cord **[C]**.



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

Exit through the rear of the operator cab **[D]**.



OPERATOR CAB (Cont'd)

Emergency Exit (Cont'd)

NOTE: When an Operator Cab Enclosure Kit (optional) is installed, the window of the front door can be used as an emergency exit [A].

Pull the plastic loop at the top of the window in the front door.

Push the window out with your foot.

SEAT BAR RESTRAINT SYSTEM

Description

The seat bar restraint system has a pivoting seat bar with arm rests and has spring loaded interlocks for the lift and tilt control pedals. The operator controls the use of the seat bar. The seat bar in the down position helps to keep the operator in the seat. The interlocks require the operator to lower the seat bar in order to operate the foot pedal controls. When the seat bar is up, the lift and tilt pedals are locked when returned to the neutral position.

WARNING

AVOID INJURY OR DEATH

The seat bar system must lock the lift and tilt control pedals in neutral when the seat bar is up. Service the system if pedals do not lock correctly.

W-2105-1285

Seat Bar Inspection

Sit in the seat and fasten the seat belt. Engage the parking brake. Pull the seat bar all the way down. Start the engine. Operate each foot pedal to check both the lift and tilt functions. Raise the lift arms until the bucket is about 2 feet (600 mm) off the ground.

Raise the seat bar. Try to move each foot pedal. Pedals must be firmly locked in neutral position. There must be no motion of the lift arms or tilt (bucket) when the pedals are pushed.

Pull the seat bar down, lower the lift arms. Operate the lift pedals. While the lift arms are going up, raise the seat bar and the lift arms should stop.

Lower the seat bar, lower the lift arms and place the bucket flat on the ground. Stop the engine. Raise the seat bar and operate the foot pedals to be sure that the pedals are firmly locked in the neutral position. Unbuckle the seat belt.

Seat Bar Maintenance

See the *Service Schedule*, Page 1-3 for correct service interval.

Clean any debris or dirt from the moving parts [B] & [C]. Inspect the linkage bolts and nuts for tightness. The correct torque is 25-28 ft.-lbs. (34-38 Nm).

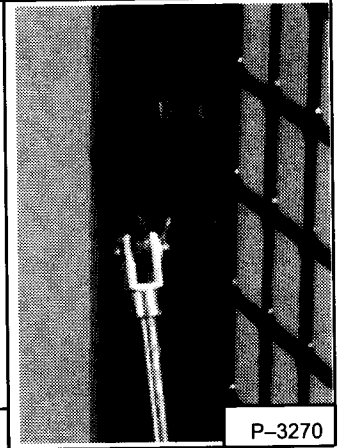
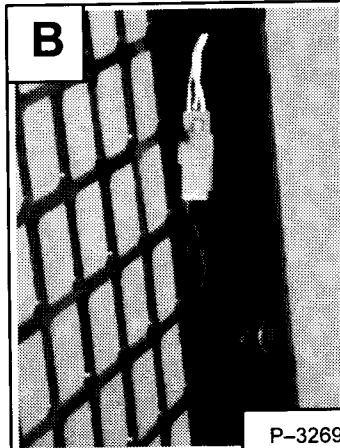
If the seat bar system does not function correctly, check for free movement of each linkage part. Check for excessive wear. Adjust pedal control linkage. Replace parts that are worn or damaged. Use only genuine Melroe replacement parts.

A

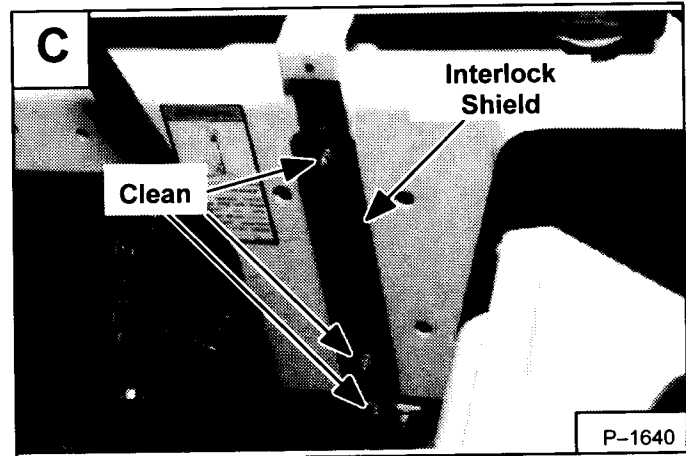


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B



C



WARNING

AVOID INJURY OR DEATH

Never operate loader without pedal lock shield 6705474 on both interlocks. Shields prevent foot from unlocking interlocks when leaving loader seat.

W-2162-1194

AIR CLEANER SERVICE

Replacing Filter Element

WITH CONDITION INDICATOR: Replace the large (outer) filter element only when the red ring shows in the window of the condition indicator (Item 1) [A].

NOTE: Before replacing the filter element, push the button on the condition indicator (Item 2) [A]. Start the engine. If the red ring does not show, do not replace the filter element.

Replace the inner filter every third time the outer filter is replaced or when the red ring still shows in the indicator window after the outer filter has been replaced.

WITH BOSS® OPTION: It is important to change the air filter element only when the service codes (on the optional instrument panel) shows the symbols [AF.2] [B].

Service the air cleaner as follows:

Remove the dust cover clips (Item 1) [C].

Remove the dust cover.

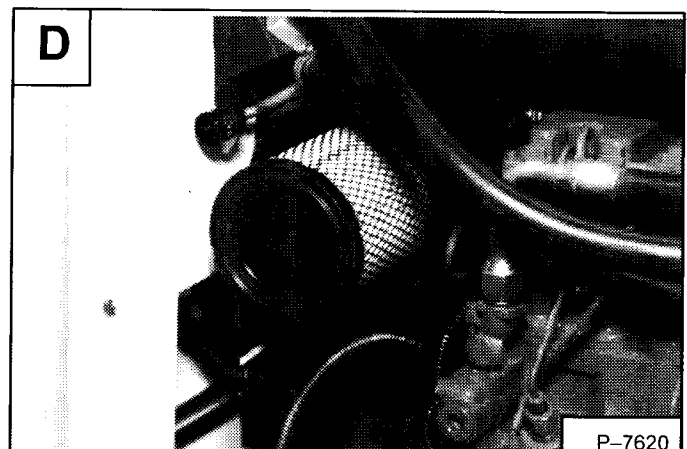
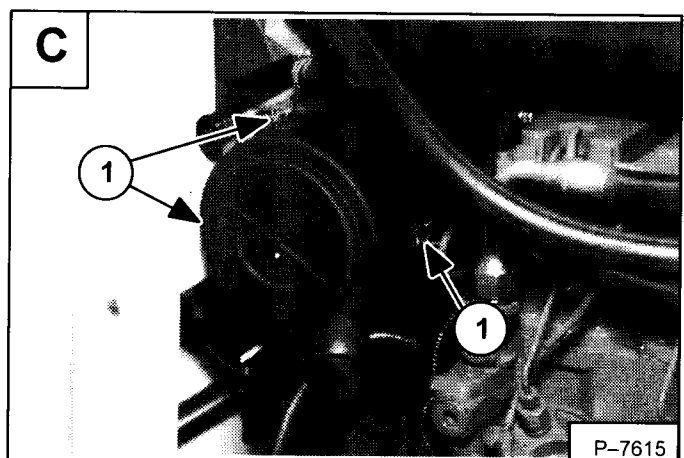
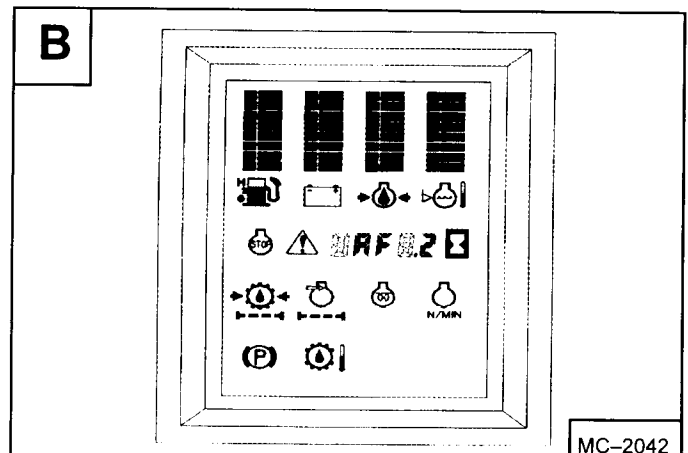
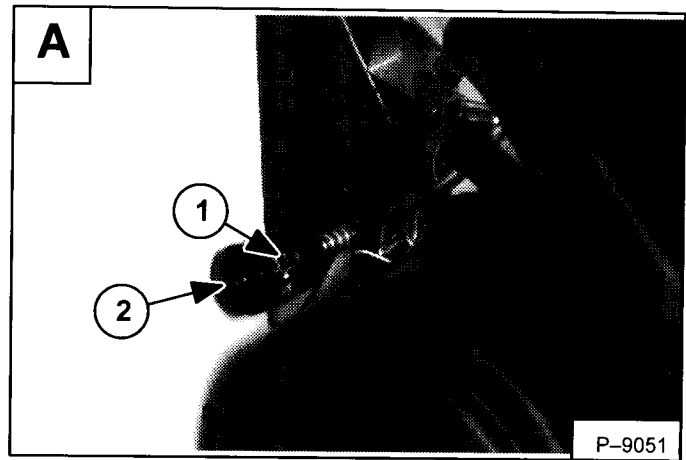
Remove the large filter element [D].

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

Install the new filter element.

Install dust cover.

Check the air intake hose for damage. Check the air cleaner housing for damage. Check to make sure all connections are tight.

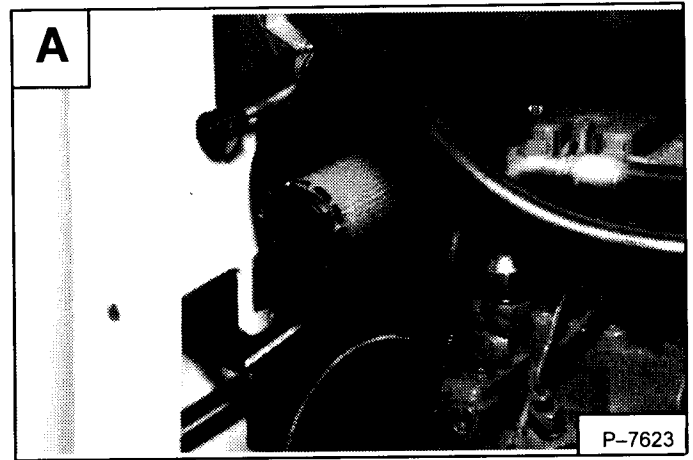


AIR CLEANER SERVICE (Cont'd)

Replacing Filter Element (Cont'd)

Only replace the inner filter element under the following conditions **[A]**:

1. Replace the inner filter element every third time the outer filter is replaced.
2. When the service code on the instrument panel shows symbol **[AF.2]** (See Page 1-10 **[B]**) during full engine speed, replace the inner filter element only after outer filter element has been replaced. (See Page 1-10.)



FUEL SYSTEM

Fuel Specifications

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

The following is one suggested blending guideline which should prevent fuel gelling problems:

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

We recommend an operator contact their 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

Remove the fuel fill cap (Item 1) [A].

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!** [B].

Install and tighten the fuel fill cap [A].

Fuel Filter

See the *Service Schedule*, Page 1-3 for the recommended service interval when to remove the water from the fuel filter.

Loosen the drain (Item 1) [C] at the bottom of the filter element to drain any water from the filter.

See the *Service Schedule*, Page 1-3 for the recommended service interval when to replace the fuel filter.

To replace the fuel filter element, use a filter wrench to remove the filter element [C].

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

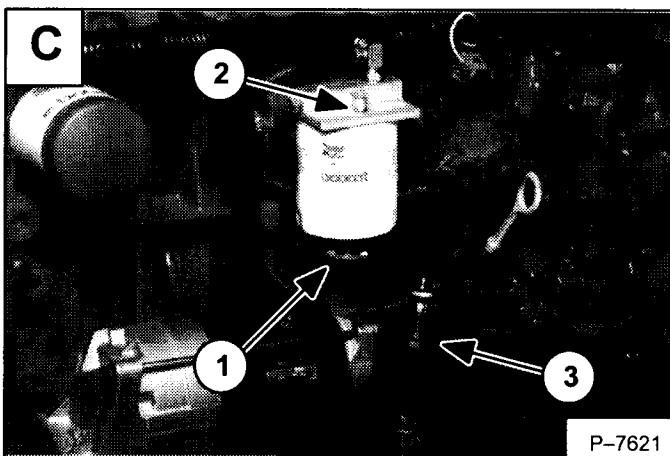
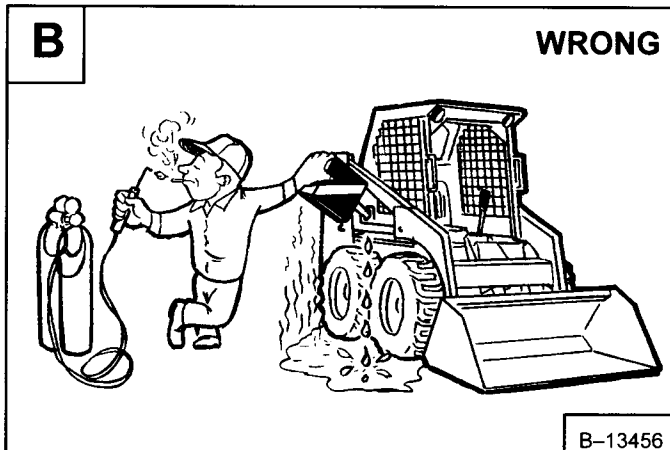
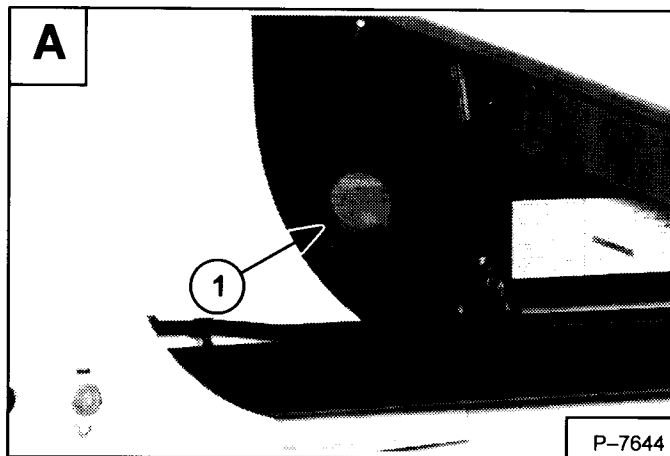
Removing Air From the Fuel System

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.

Loosen the air vent plug (Item 2) [C] at the top of the fuel filter.

Operate the priming bulb (Item 3) [C] until fuel flows from the vent.

Tighten the air vent plug.



! 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

ENGINE LUBRICATION SYSTEM

Checking Engine Oil

Check the engine oil level every day.

Before starting the engine for the work shift, open the rear door. Remove the dipstick (Item 1) [A].

Keep the oil level between the marks on the dipstick.

Use a good quality motor oil that meets API Service Classification of CC, CD or CE.

TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE.

Use SAE 5W-30 for +80°F (+27°C) & Below.

Use SAE 10W-30 for +80°F (+27°C) & Above.

Replacement of Oil and Filter

See the Service Schedule Page 1-3 for the service interval for replacing the engine oil and filter.

Run the engine until it is at operating temperature. Stop the engine.

Open the rear door. Remove the drain plug (Item 1) [B]. Drain the oil into container.

Remove the oil filter (Item 1) [C].

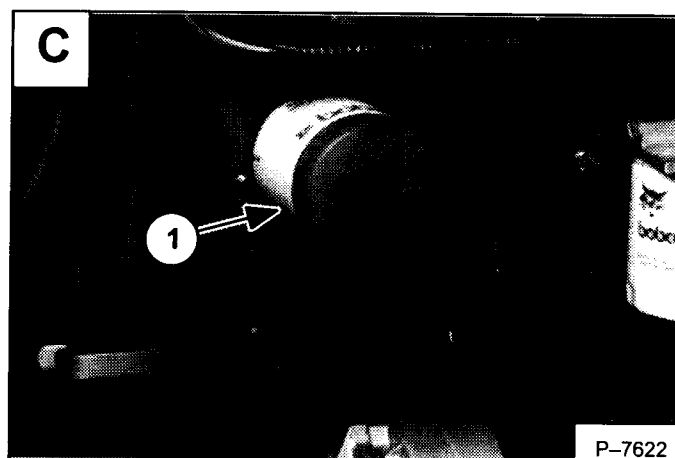
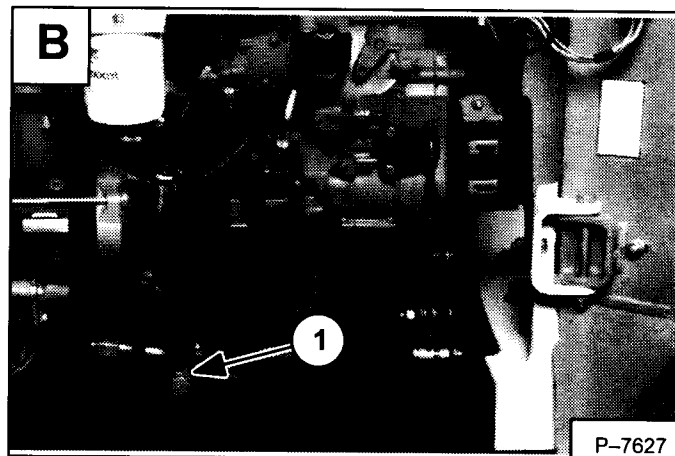
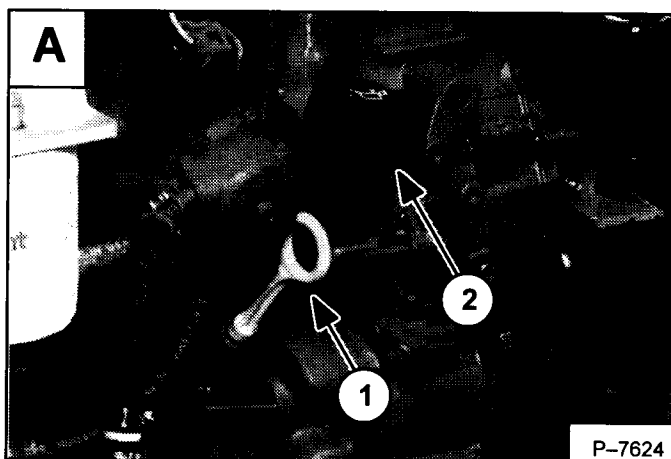
Clean the filter housing surface. Put clean oil on the new oil filter gasket. Install the filter and hand tighten only.

Install and tighten the drain plug.

Remove the filler cap (Item 2) [A].

Put 10 qts. (9,5 L) of oil in the engine.

Start the engine and let it run for several minutes. Stop the engine. Check for leaks and check the oil level. Add oil as needed if it is not at the top mark on the dipstick.



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

COOLING SYSTEM

Cleaning the Cooling System

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

! WARNING

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.

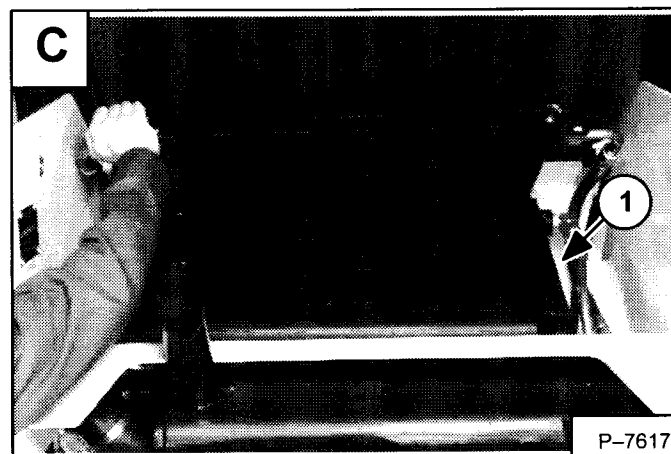
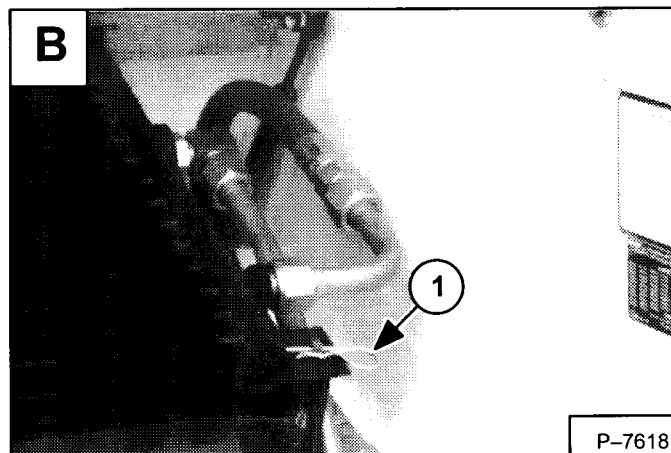
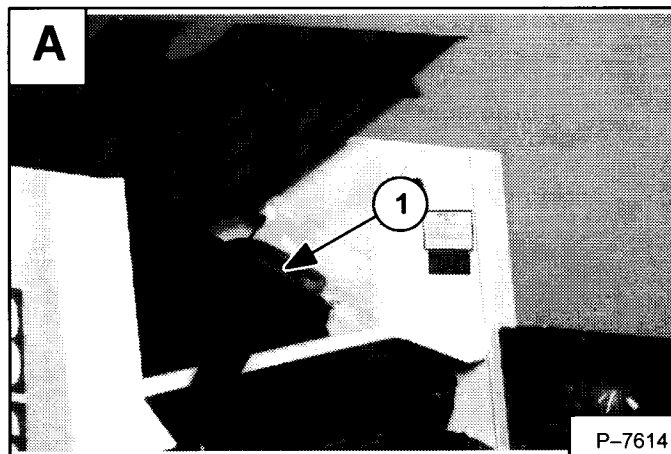
W-2019-1285

Raise the rear grill [A].

Use air pressure or water pressure to clean the top hydraulic/hydrostatic system oil cooler (Item 1) [A].

Remove the hair pin (Item 1) [B] (both sides) so the oil cooler can be raised.

Raise the oil cooler, use air pressure or water pressure to clean the top of the engine oil cooler (Item 1) [C].



ALTERNATOR BELT

Adjusting the Alternator Belt

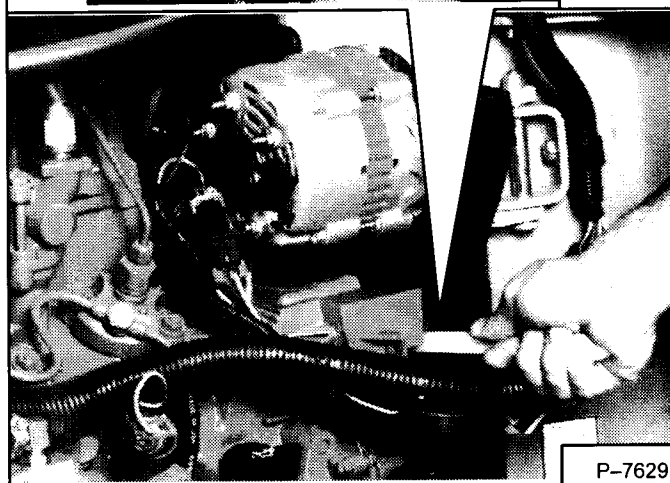
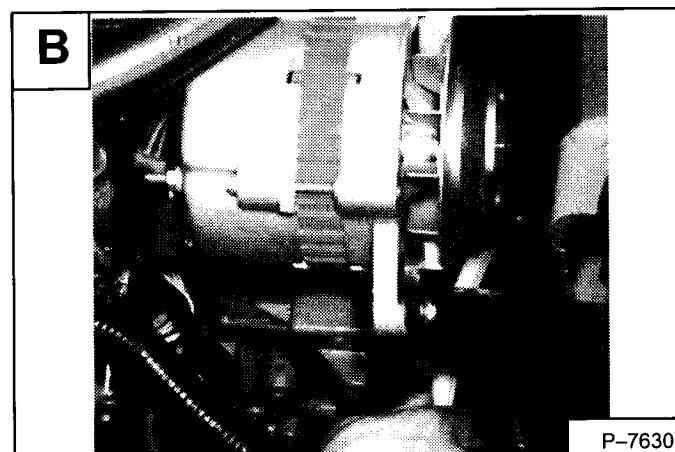
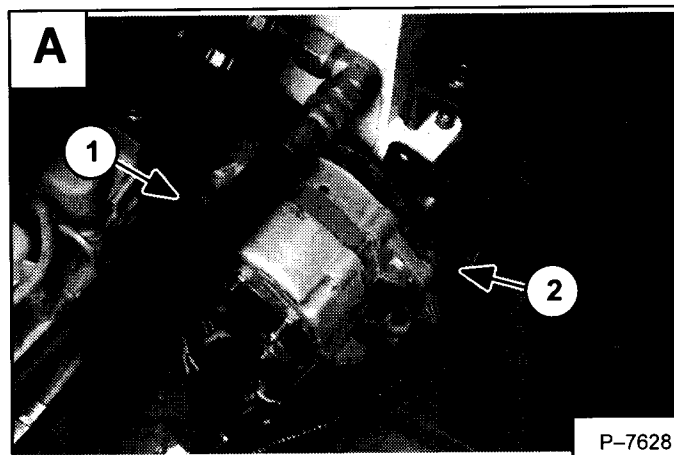
Stop the engine.

Loosen the alternator mounting bolt (Item 1) **[A]**.

Loosen the adjustment bolt (Item 2) **[A]**.

Move the alternator until the belt has 5/16 inch (8,0 mm) movement at the middle of the belt span with 15 lbs. (66 N) of force **[B]**.

Tighten the adjustment and mounting bolts.



HYDRAULIC/HYDROSTATIC SYSTEM

Checking and Adding Fluid

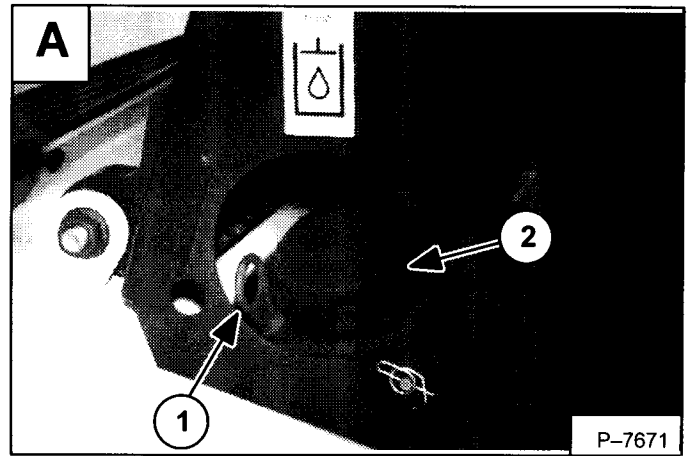
Use only recommended fluid in the hydraulic system. (See *Specification*, Page 9-1.)

To check the reservoir, use the following procedure:

Put the Bobcat loader on a level surface. Lower the lift arms and tilt the Bob-Tach fully back.

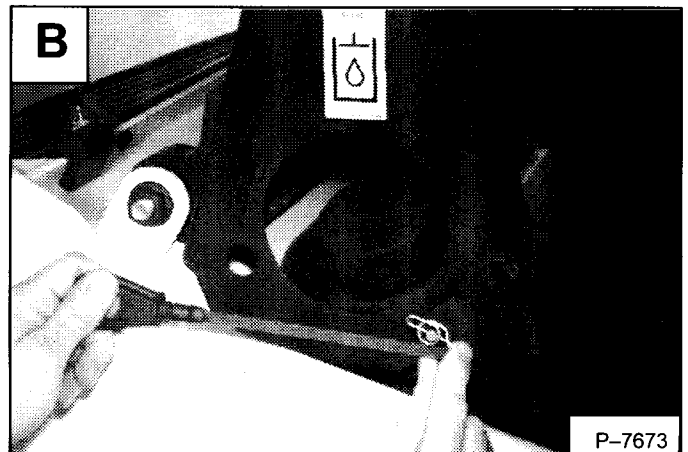
Stop the engine.

Remove the dipstick (Item 1) **[A]**.



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

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



Replacing the Hydraulic/Hydrostatic Filter

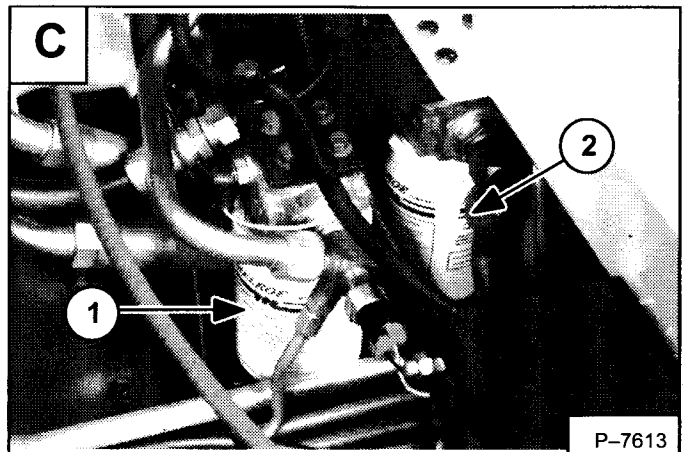
See the *Service Schedule*, Page 1-3 for the correct service interval.

Raise the operator cab. (See Page 1-7.)

Use a filter wrench to remove the filter elements (Items 1 & 2) **[C]**.

Clean the surface of the filter housing where the element seal contacts the housing. Put clean oil on the rubber seal of the filter elements.

Install and hand tighten the filter elements.



HYDRAULIC/HYDROSTATIC SYSTEM (Cont'd)

Replacing the Hydraulic Fluid

See the *Service Schedule*, Page 1-3 for the service interval.

Replace the fluid if it becomes contaminated or after major repair.

Also clean the two hydrostatic motor case drain filters thoroughly after a major repair.

Remove the fill cap. Remove the screen from the reservoir [A]. Wash the screen in clean solvent and air dry.

Raise the operator cab. (See Page 1-7.)

Disconnect the hose (Item 1) [B] from the hydraulic fluid reservoir and drain the fluid into a container.

Replace the two filter elements. (See Page 1-17.)

Remove the case drain filters (Item 1) [C] & [D] and clean thoroughly with clean solvent.

Install the case drain filters and tighten all the hoses.

Add the correct fluid to the reservoir until the fluid level is to the top mark on the dipstick. (See Page 1-17.)

WARNING

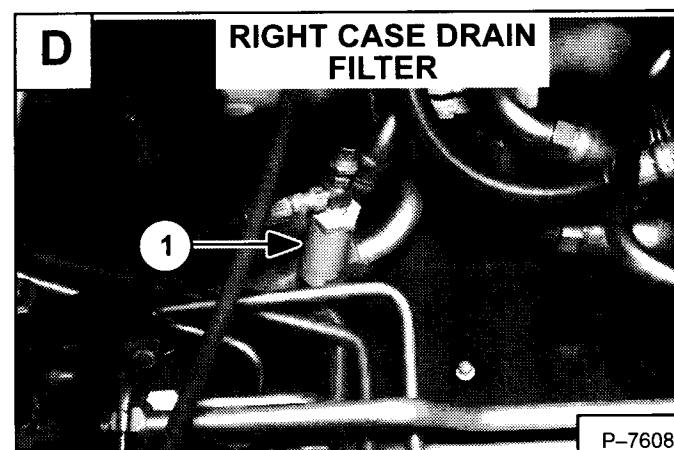
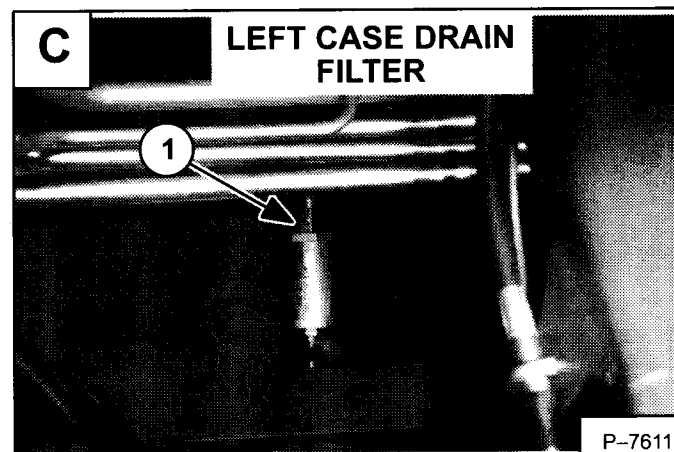
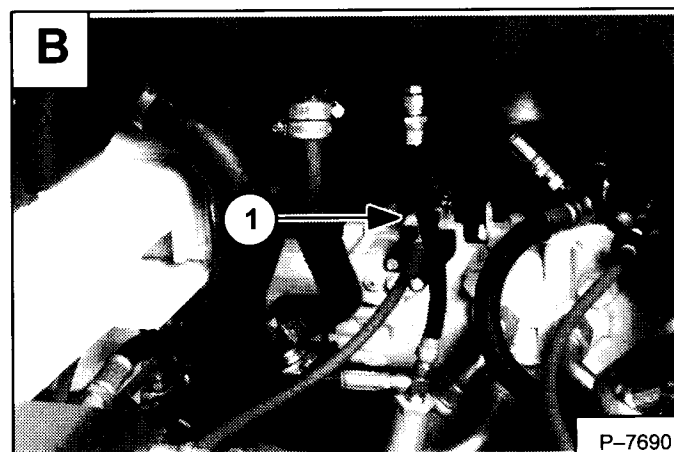
Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes causing serious injury. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention.

W-2074-1285

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

Lower the operator cab. Start the engine and operate the loader hydraulic controls. Stop the engine. Check for leaks. Check the fluid level in the reservoir and add as needed.



TIRE MAINTENANCE

Wheel Nuts

See the *Service Schedule*, Page 1–3 for the service interval to check the wheel nuts. The correct torque is 105–115 ft.-lbs. (142–156 Nm) torque [A].

Tire Rotation

Check the tires regularly for pressure, wear and damage.

Recommended tire pressure must be maintained to avoid excessive tire wear and loss of stability and handling capability. Check for the correct pressure before operating the loader. Inflate to maximum pressure shown on sidewall of tire.

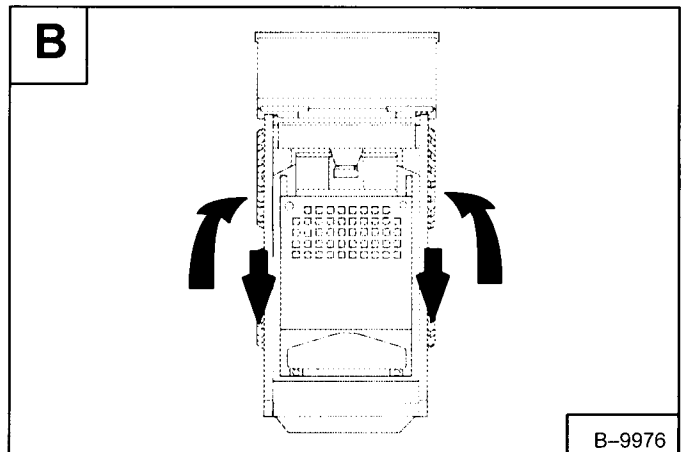
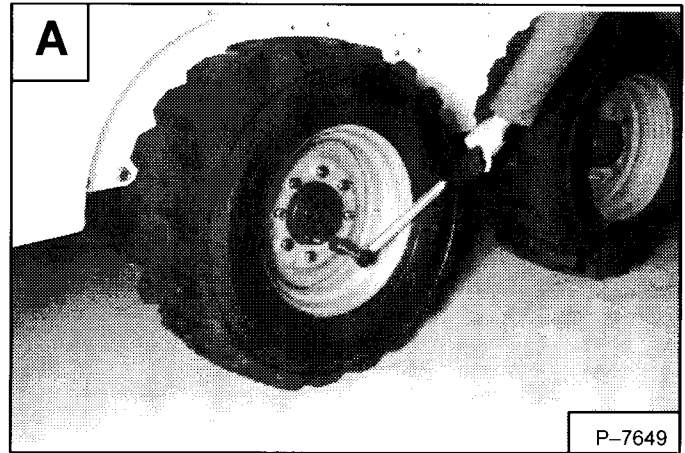
Rear tires usually wear faster than front tires. To keep tire wear even, move the front tires to the rear and rear tires to the front [B].

It is important to keep the same size tires on each side of the loader. If different sizes are used, each tire will be turning at a different rate and cause excessive wear. The tread bars of all the tires must face the same direction.

Tire Mounting

Tires are to be repaired only by an authorized person using the proper procedures and safety equipment. Tires and rims must always be checked for correct size before mounting. Check rim and tire bead for damage.

The rim flange must be cleaned and free of rust. The tire bead and rim flange must be lubricated with a rubber lubricant before mounting the tire, avoid excessive pressure which can rupture the tire and cause serious injury or death. During inflation of the tire, check the tire pressure frequently to avoid over inflation.



WARNING

Do not inflate tires above specified pressure. Failure to use correct tire mounting procedure can cause an explosion which can result in injury or death.

W-2078-1285

IMPORTANT

Inflate tires to the **MAXIMUM** pressure shown on the sidewall of the tire. **DO NOT** mix brands of tires used on the same loader.

I-2057-0794

FINAL DRIVE TRANSMISSION (CHAINCASE)

Checking and Adding Oil

The chaincase contains the final drive sprockets and chains and uses the same type of oil as the hydraulic/hydrostatic system. (See *SPECIFICATIONS*, Page 9-1.)

To check the chaincase oil level, use the following procedure:

Drive the loader on a level surface. Stop the engine.

Remove the plug (Item 1) [A] from the front of the chaincase housing.

If oil can be reached with the tip of your finger through the hole the oil level is correct.

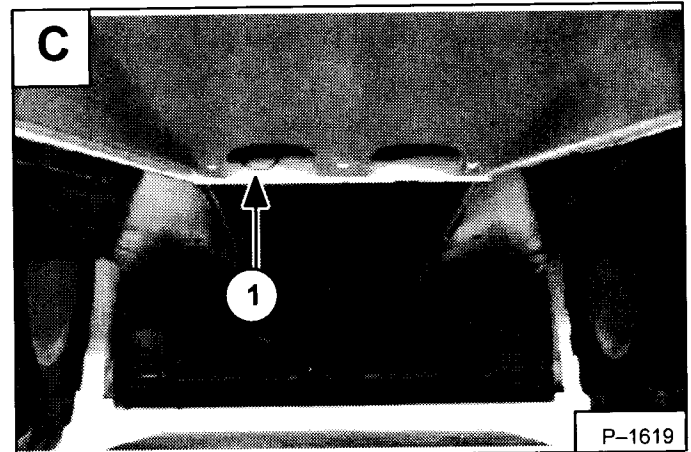
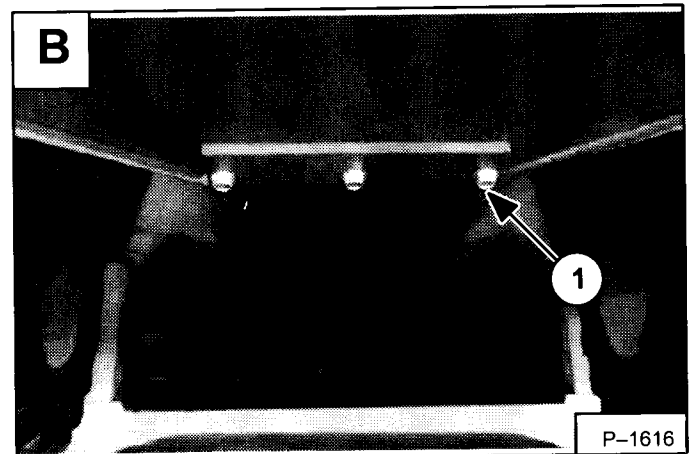
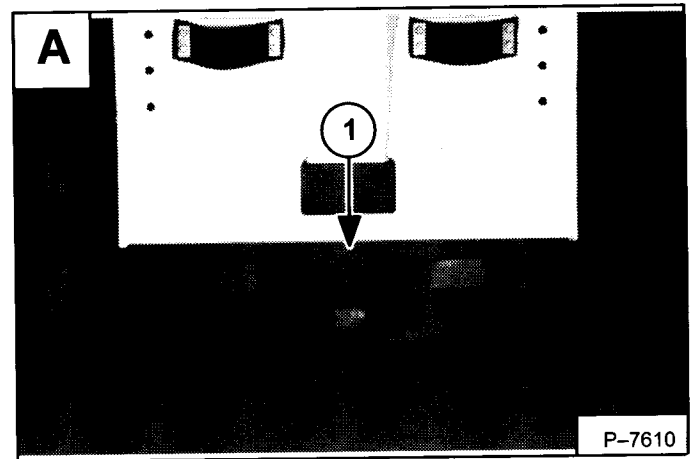
If the level is low, add oil through the check plug hole until the oil flows from the hole. Install and tighten the plug.

Removing Oil From the Chaincase

To drain the oil from the chaincase, remove the cover (Item 1) [B] over the drain plug at the rear of the chaincase.

Remove the drain plug (Item 1) [C] and drain the oil into a container.

NOTE: When installing the drain plug into the chaincase, always use a NEW drain plug.



LUBRICATION OF THE BOBCAT LOADER

Procedure

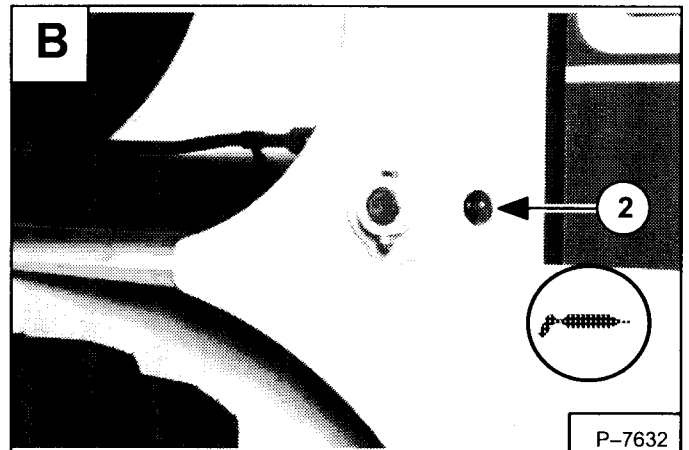
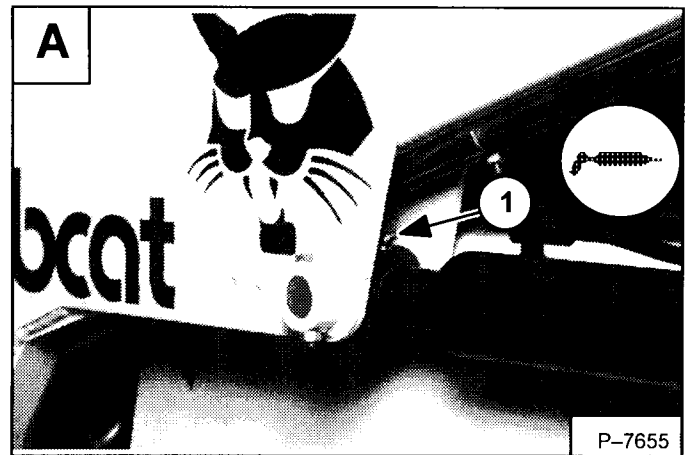
Lubricate the loader as specified in the *SERVICE SCHEDULE*, Page 1–3 for the best performance of the loader.

Record the operating hours each time you lubricate the Bobcat loader.

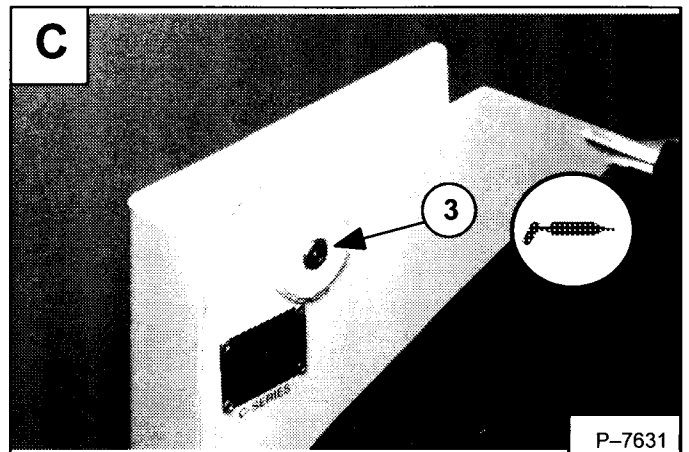
Always use a good quality lithium based multi-purpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

Lubricate the following locations on the loader: 

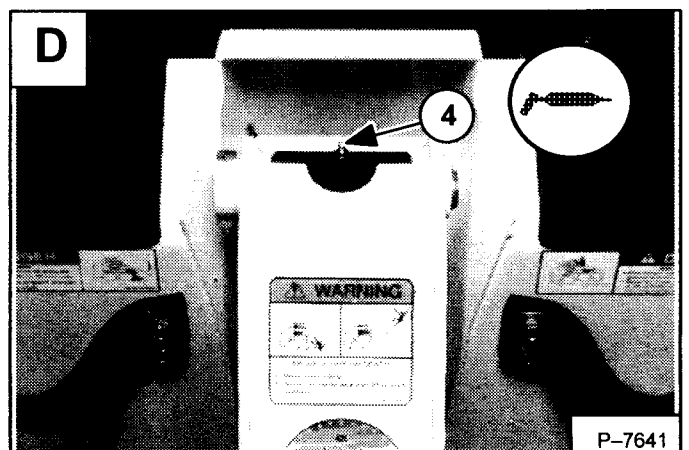
1. Rod End Lift Cylinder (Both Sides) [A].
2. Base End Lift Cylinder (Both Sides) [B].



3. Lift Arm Pivot Pin (Both Sides) [C].

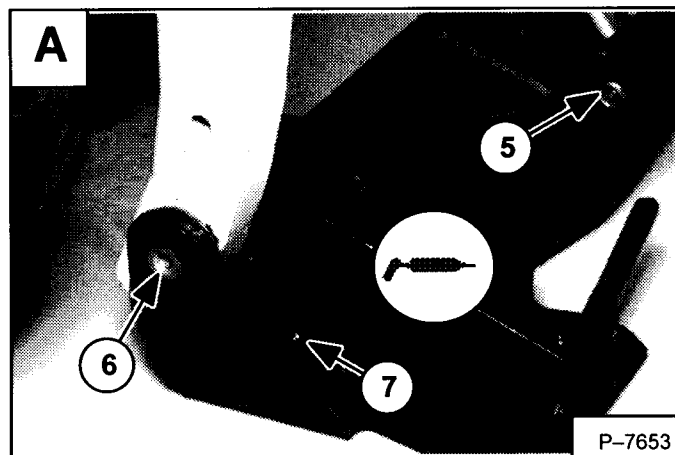


4. Base End Tilt Cylinder [D].

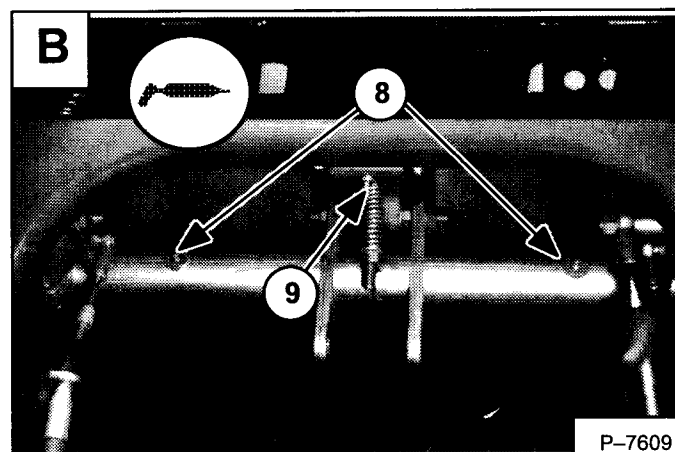


LUBRICATION OF THE BOBCAT LOADER (Cont'd)

5. Rod End Tilt Cylinder [A].
6. Bob-Tach Pivot Pin (Both Sides) [A].
7. Bob-Tach Wedge (Both Sides) [A].



8. 250 Hours: Steering Lever Shaft (2) [B].
9. 250 Hours: Centering bracket pivot pin [B].



FAN GEARBOX

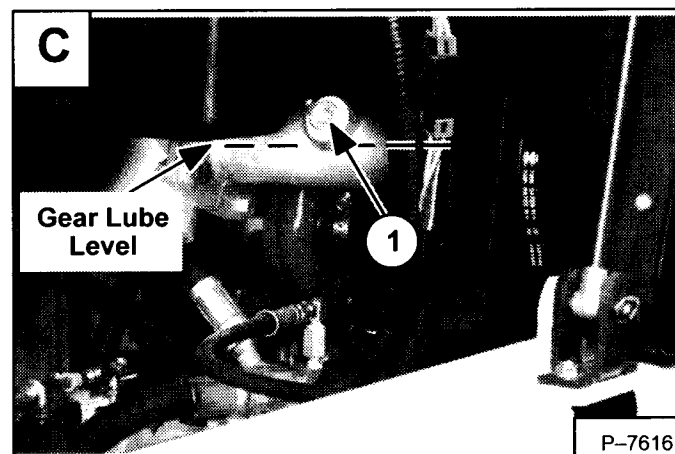
Checking and Maintaining

See the *SERVICE SCHEDULE*, Page 1-3 for the correct service interval.

Raise the operator cab. (See Page 1-7.)

Remove the plug (Item 1) [C] to check the lubricant level.

When checking the gearbox lube level, make sure the level does not go above the center line of the shaft in the gearbox [C]. Use SAE 90W gear lube if the level is low.



REMOTE START SWITCH

Procedure

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

MEL1429 A – Remote Start Switch

The Remote Start Switch is required when the service technician is adjusting the steering linkage, checking the hydraulic/hydrostatic system.

Lift and block the loader. (See Page 1–4.)

Raise the lift arms and install an approved lift arm support device. (See Page 1–6.)

Raise the operator cab. (See Page 1–7.)

Disconnect the operator cab wire harness (Item 1) [A] from the engine wire harness.

Connect the remote start switch to the engine harness connectors (Item 1) [B].

WARNING

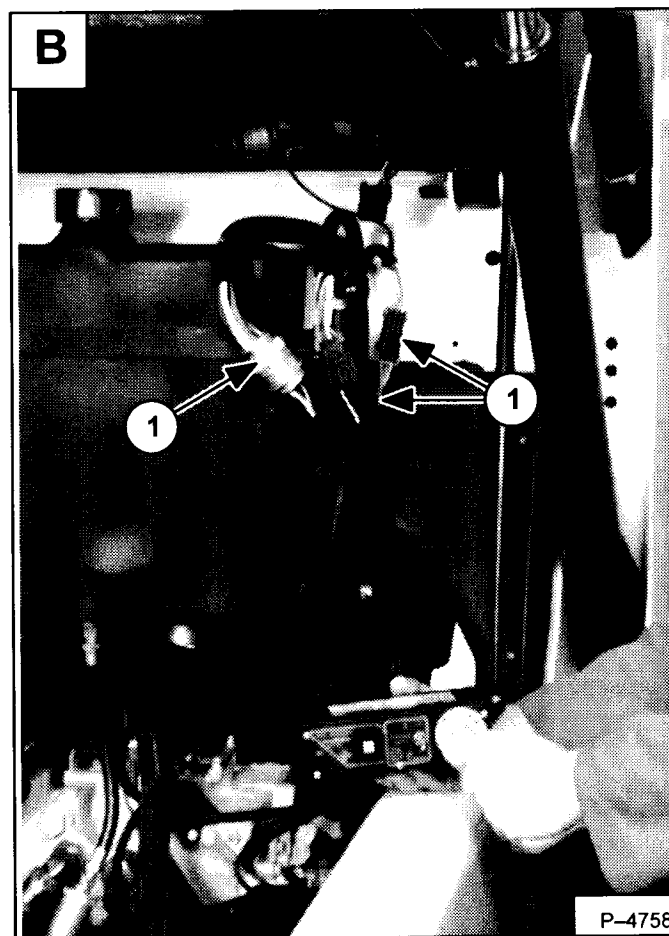
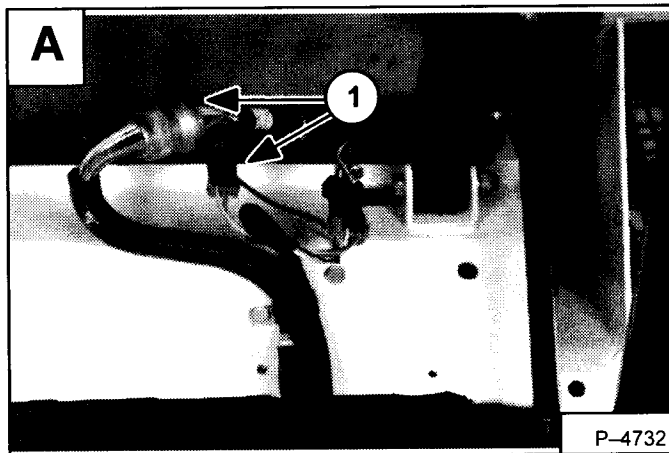
Put jackstands under the front axles and rear corners of the frame before running the engine for service. Failure to use jackstands can allow the machine to fall or move and cause injury or death.

W-2017-0286

WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by a 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-2059-0991

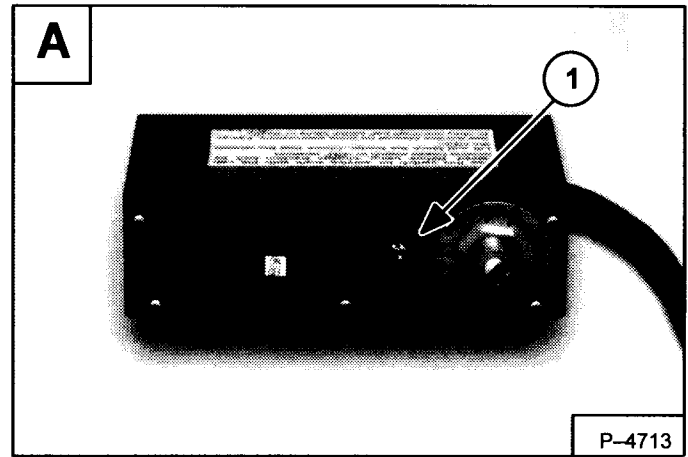


REMOTE START SWITCH (Cont'd)

Procedure (Cont'd)

- Put the traction lock override switch (Item 1) **[A]** in the ON position so the traction function is locked. The wheels are not able to turn.

Turn the key to the right and start the engine.



Move the traction lock override switch (Item 1) **[B]** to the OFF position so the traction function is unlocked. The wheels are now able to turn.

The auxiliary mode switch (Item 2) **[B]** is used to turn the front auxiliary quick couplers ON and OFF during relief pressure and flow tests.

