

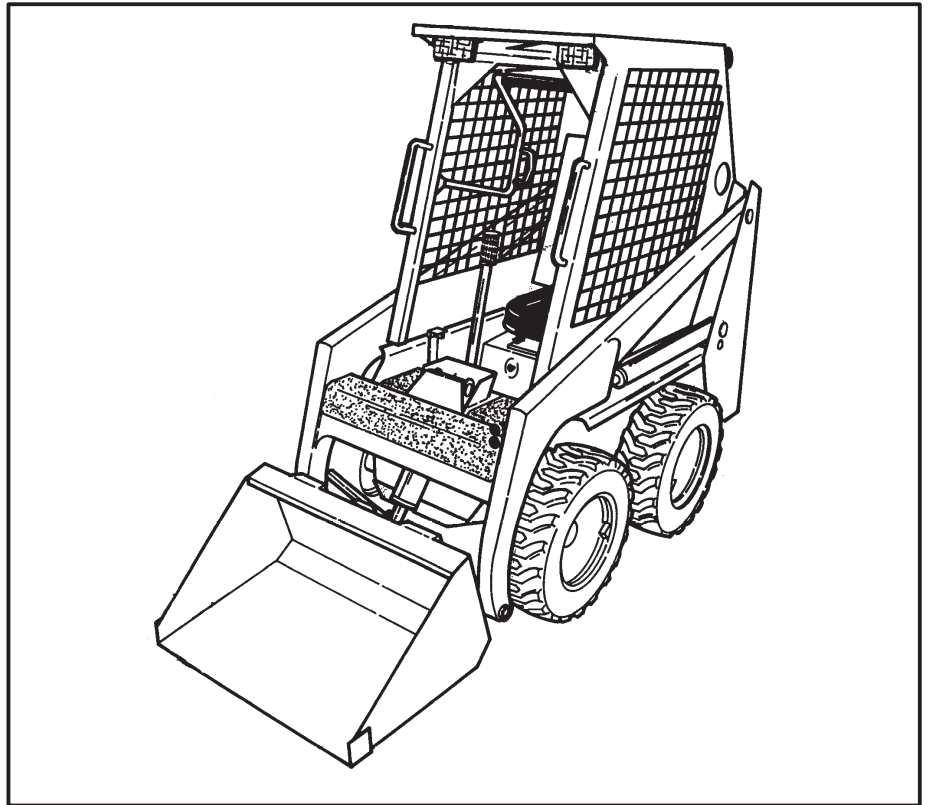
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Operation & Maintenance Manual



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MELROE
INGERSOLL-RAND

6566477 (7-96) Revised (11-98)

Printed in U.S.A.



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SAFETY

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SAFETY

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INSTRUMENT PANEL

The instrument panel has the following instruments [A].

1. KEY SWITCH – For preheating and starting the engine.
2. FUSE (IGNITION) – To protect the electrical system from overload.
3. HOURMETER – Records the total operating hours of the loader.
4. VOLTMETER – Shows the condition of the battery and the rate of charge.
5. ENGINE TEMPERATURE GAUGE – Shows the engine coolant temperature.
6. ENGINE WARNING LIGHT – Engine oil pressure is low. Stop the engine if this light comes ON.
7. TRANSMISSION WARNING LIGHT – Low transmission charge pressure or high fluid temperature. Stop the engine if this light comes ON.

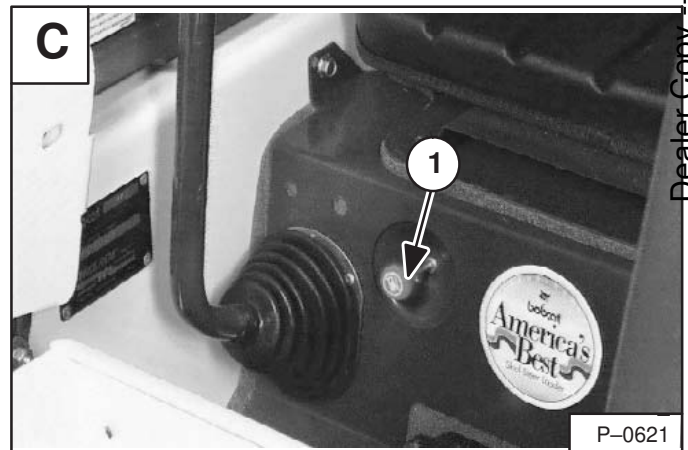
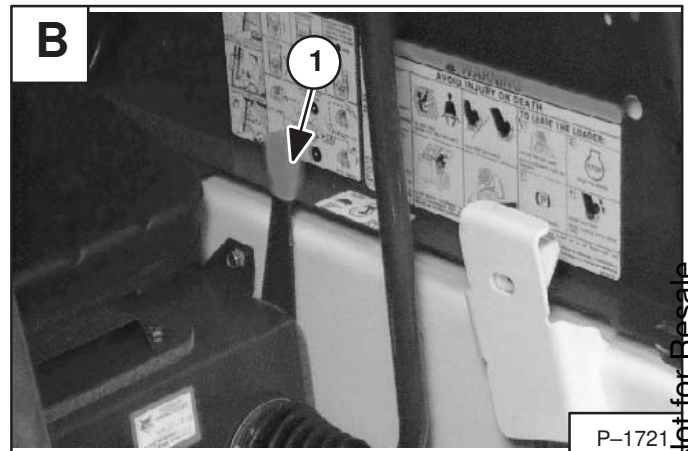
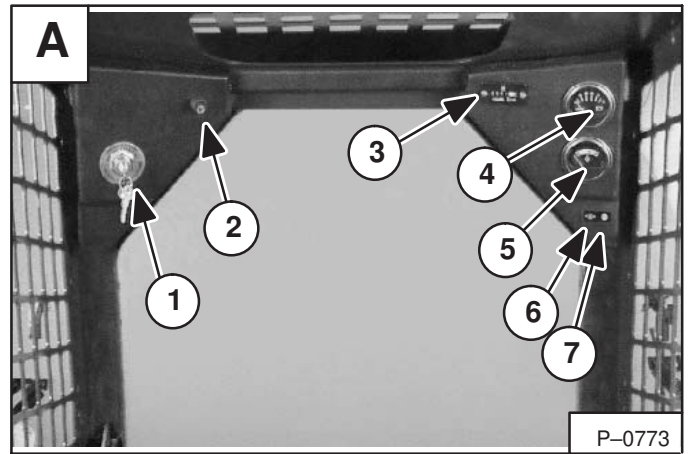
ENGINE SPEED CONTROL

The engine speed control is at the left side of the operator's seat (Item 1) [B]. Engine speed is controlled by moving the lever forward to increase the engine RPM and backward to decrease the engine RPM.

ENGINE STOP CONTROL

The stop control is on the panel near the right hand steering lever (Item 1) [C].

Pull the engine speed control fully backward to decrease the engine RPM. Pull the stop control OUT to stop the engine. Turn the key switch to the OFF position after the engine has stopped. Push the stop control IN after engine is stopped.



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STARTING THE ENGINE (Cont'd)

Cold Temperature Starting Condition

If the temperature is below 32° F. (0° C.), use the following procedure to make starting the engine easier:

1. Replace the engine oil with the correct type and viscosity for the anticipated starting temperature. (See Oil Specifications, Page 33.)
2. Make sure the battery is at full charge.
3. Install a block or tank heater on the engine.

Follow the steps under *Normal Starting Condition* and repeat the *Preheating* procedure until the engine starts [A].

WARNING

Do not use ether with glow plug (preheat) systems. Explosion can result which can cause injury or death.

W-2071-1285

Warming the Hydraulic/Hydrostatic System

Let the engine run for a minimum of 5 minutes to warm the engine and hydrostatic transmission fluid before operating the loader. If the warning light comes ON when operating the loader (cold), more warm up time is needed.

A

KEY SWITCH PREHEAT POSITION	AIR TEMPERATURE	PREHEAT TIME
	41°F (5°C) and Above	20 to 40 SECONDS
	32° to 41°F (0° to 5°C)	40 to 60 SECONDS
	32°F (0°C) and Below	60 to 90 SECONDS

SEE OPERATOR'S MANUAL FOR MORE INSTRUCTIONS.
WEITERE INSTRUKTIONEN FINDEN SIE IN DER BEDIENUNGSANLEITUNG.
CONSULTA EL MANUAL DEL OPERADOR PARA MAS INSTRUCCIONES.
SE REPORTER AU MANUAL DE L'OPÉRATEUR POUR PLUS ENSEIGNEMENT.
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PREVENTIVE MAINTENANCE

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**PREVENTIVE
MAINTENANCE**

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ENGINE LUBRICATION SYSTEM

Check the oil level every day. To check the oil level, stop the engine and open the rear door.

Remove the dipstick, wipe the dipstick, insert the dipstick again and recheck the oil level [A].

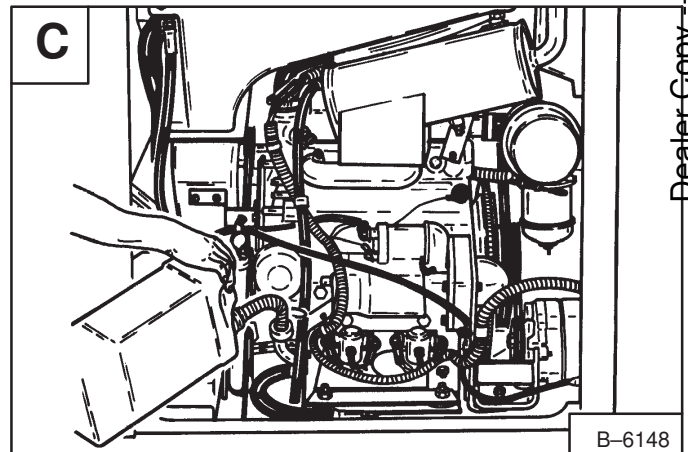
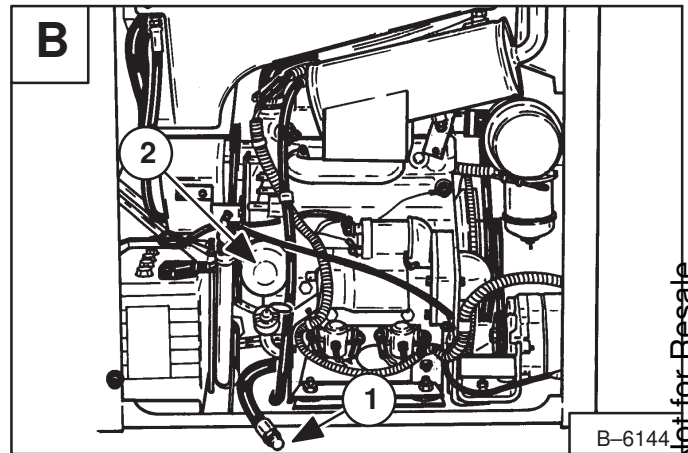
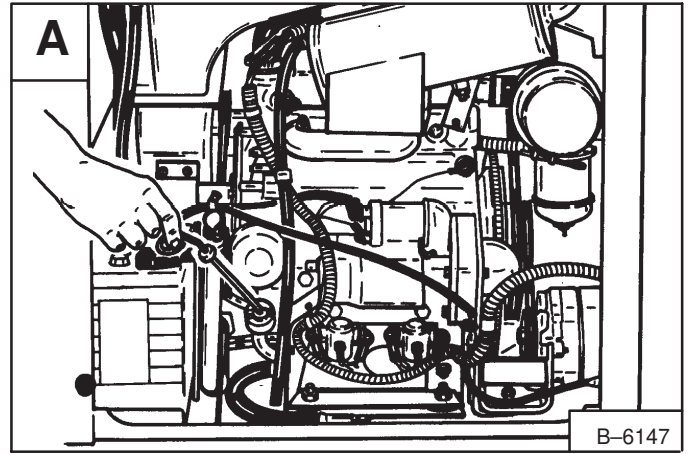
Keep the oil level between the marks on the dipstick. Use a good quality motor oil that has the correct API Service Classification of CC, CD or CE. (See the Oil Chart.)

Replacing Oil and Filter

See the Service Schedule Page 25 for the service interval for replacing the engine oil and filter.

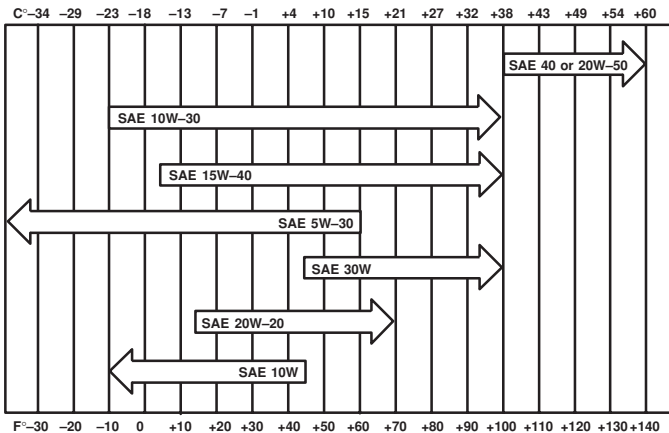
Use the following procedure to replace the oil and filter:

1. Run the engine until it is at operating temperature. Stop the engine.
2. Open the rear door and remove the cap (Item 1) [B] from the end of the hose and drain the oil into a container.
3. Remove the filter (Item 2) [B].
4. Clean the filter housing surface. Put clean oil on the gasket of the new filter install the filter and tighten hand tight.
5. Remove the oil filler cap [C].



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RECOMMENDED SAE VISCOSITY NUMBER (LUBRICATION OILS FOR ENGINE CRANKCASE)



TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE (DIESEL: USE API CLASSIFICATION CC, CD or CE)

Add the correct amount of oil (4 qts. (3,8 L)) to the engine [C]. (See the Oil Chart for the correct oil.)

Install the oil fill cap and tighten.

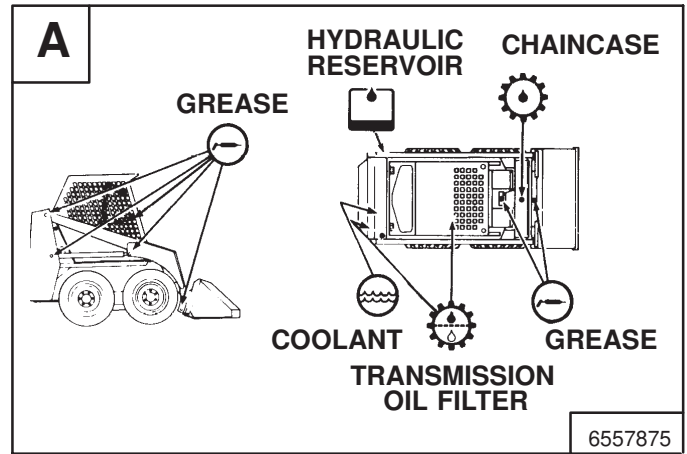
Start the engine and let it run for several minutes. Stop the engine. Check for leaks at the filter. Check the oil level. Add oil as needed. DO NOT overfill the crankcase

LUBRICATION OF THE BOBCAT LOADER

Lubricate the Bobcat loader as specified in the Service Schedule Page 25 for the best performance of the loader.

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

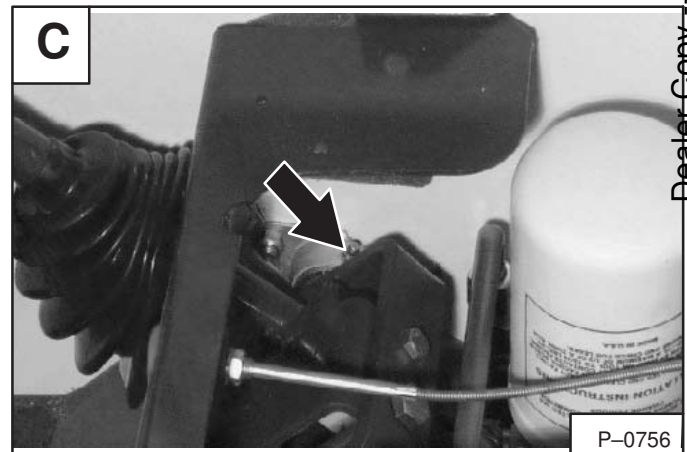
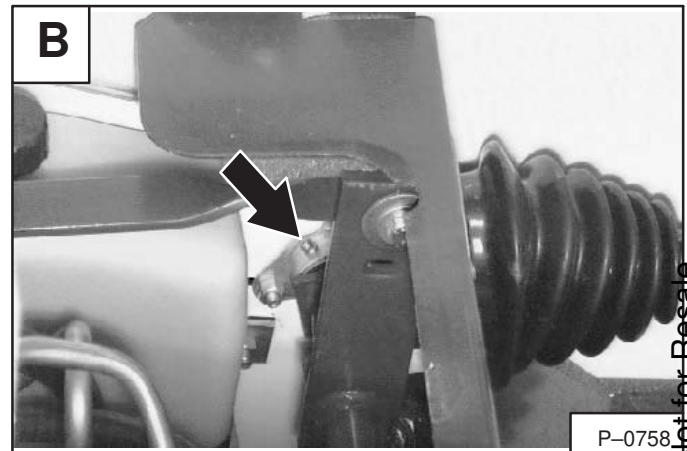
Lubricate the following locations on the loader **[A]**.



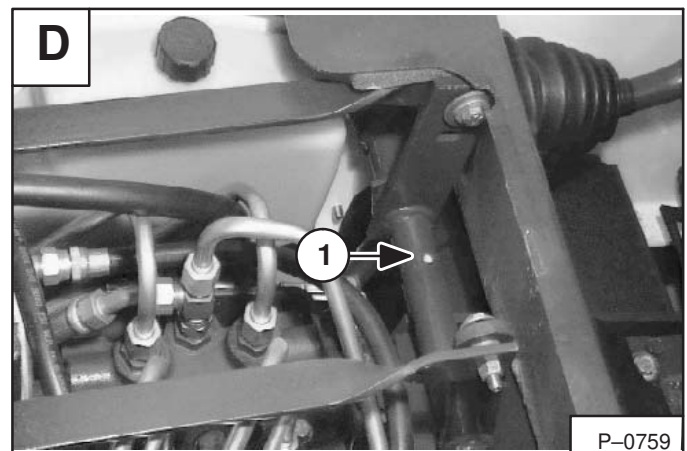
Every 250 Hours:

Raise the operator cab. (See Page 26.)

Grease the pivot bearings **[B]** & **[C]**.



Add oil or grease as needed to the steering control shaft (Item 1) **[D]**.



MACHINE SIGN TRANSLATIONS

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DANGER (6579639)	60
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**MACHINE SIGN
TRANSLATIONS**

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