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MANUAL PREVIEW

Bobcat
Operator's Manual

732

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**CLARK
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SERIES



bobcat

OWNER'S MANUAL

732



CLARK Melroe
Division

CLARK EQUIPMENT COMPANY, GWINNER, NORTH DAKOTA 58040

FOREWORD

This book is written to give the owner/operator necessary operating, routine servicing and preventive maintenance instructions for the Bobcat Loader.

Read this manual thoroughly and become completely familiar with the machine before proceeding with operating and servicing. To locate desired section, place thumb on respective tab and flip pages until corresponding section tab is reached.

For any additional information required, please refer to your Bobcat dealer.

Maintenance which is beyond the scope of this manual should not be attempted by anyone other than qualified, authorized Melroe Dealer Servicing personnel:

ADDITIONAL PUBLICATIONS

Parts Books, Service Manuals and additional Owner's Manuals are available through the local Bobcat dealer at a reasonable charge.

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OPERATING
INSTRUCTIONS

PREVENTIVE
MAINTENANCE

TROUBLE—
SHOOTING

MAJOR
PARTS

GENERAL
INFORMATION

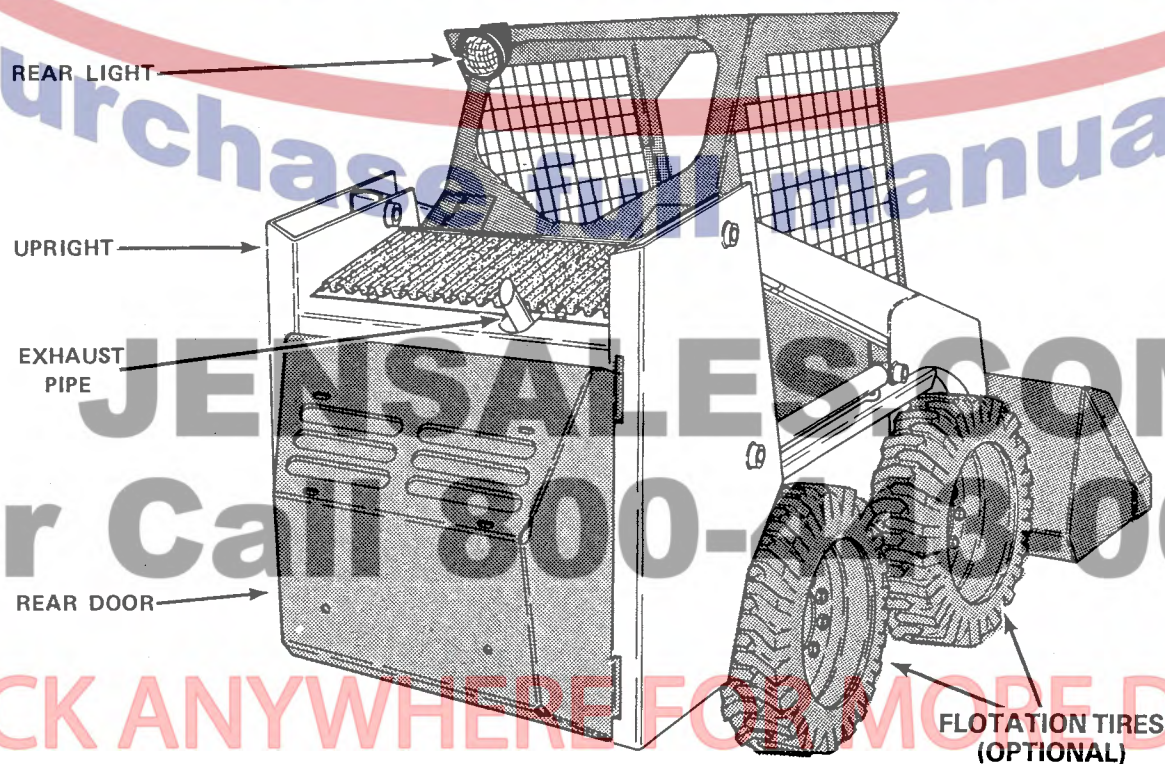
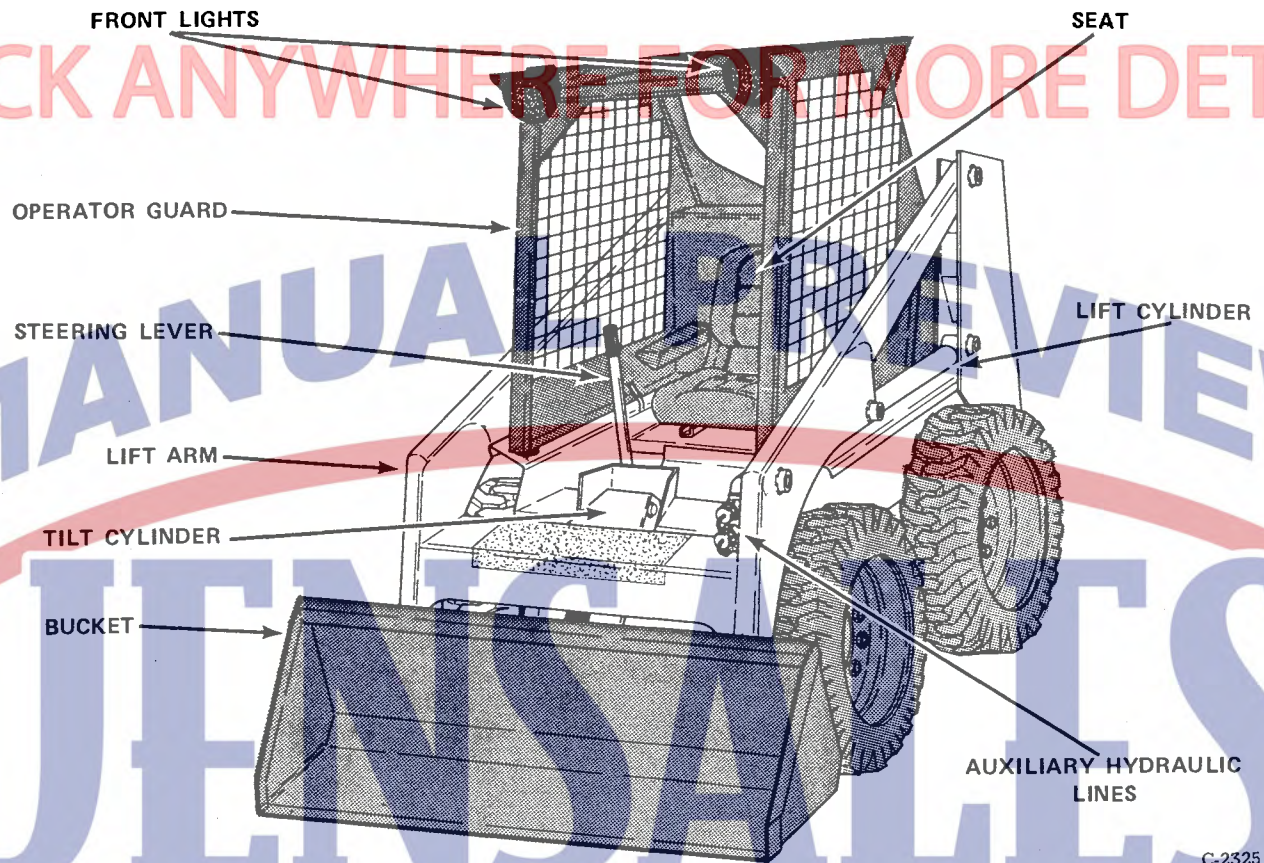
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732 BOBCAT LOADER

PICTORIAL NOMENCLATURE



To dig into ground:

1. Put the lift arms fully down. Push your toe on the tilt pedal until the cutting edge of the bucket will contact the ground (D).
2. Drive forward slowly and continue to tilt the bucket until it enters the ground (D).
3. Push your heel on the tilt pedal a small amount to increase traction and keep an even depth (E).
4. Continue to drive forward until the bucket is filled. When the ground is hard, it is easier to fill the bucket if you raise and lower the cutting edge of the bucket with the tilt pedal while you drive forward slowly.
5. Push your heel on the tilt pedal to tilt the bucket back as far as it will go when the bucket is filled (F).

Leveling (Fig. 20)

1. To spread material to fill ground that is not even, raise the lift arms and tilt the bucket while you are driving forward (G).
2. To make an area level, raise the lift arms and tilt the bucket down over the pile to be leveled. Push the lift pedal into the "float" position and drive backwards to spread the fill material (H).

Push the lift pedal fully forward with your toe to put the lift arms in a "float" position. This will put the lift control into "detent" to allow the lift arms to follow the ground.

Backfilling (Fig. 20)

1. When you fill a hole or a trench, drive up to the hole with the bucket low.
2. Tilt the bucket forward as soon as it is past the edge of the hole (G).
3. When necessary, raise the lift arms to empty the bucket.

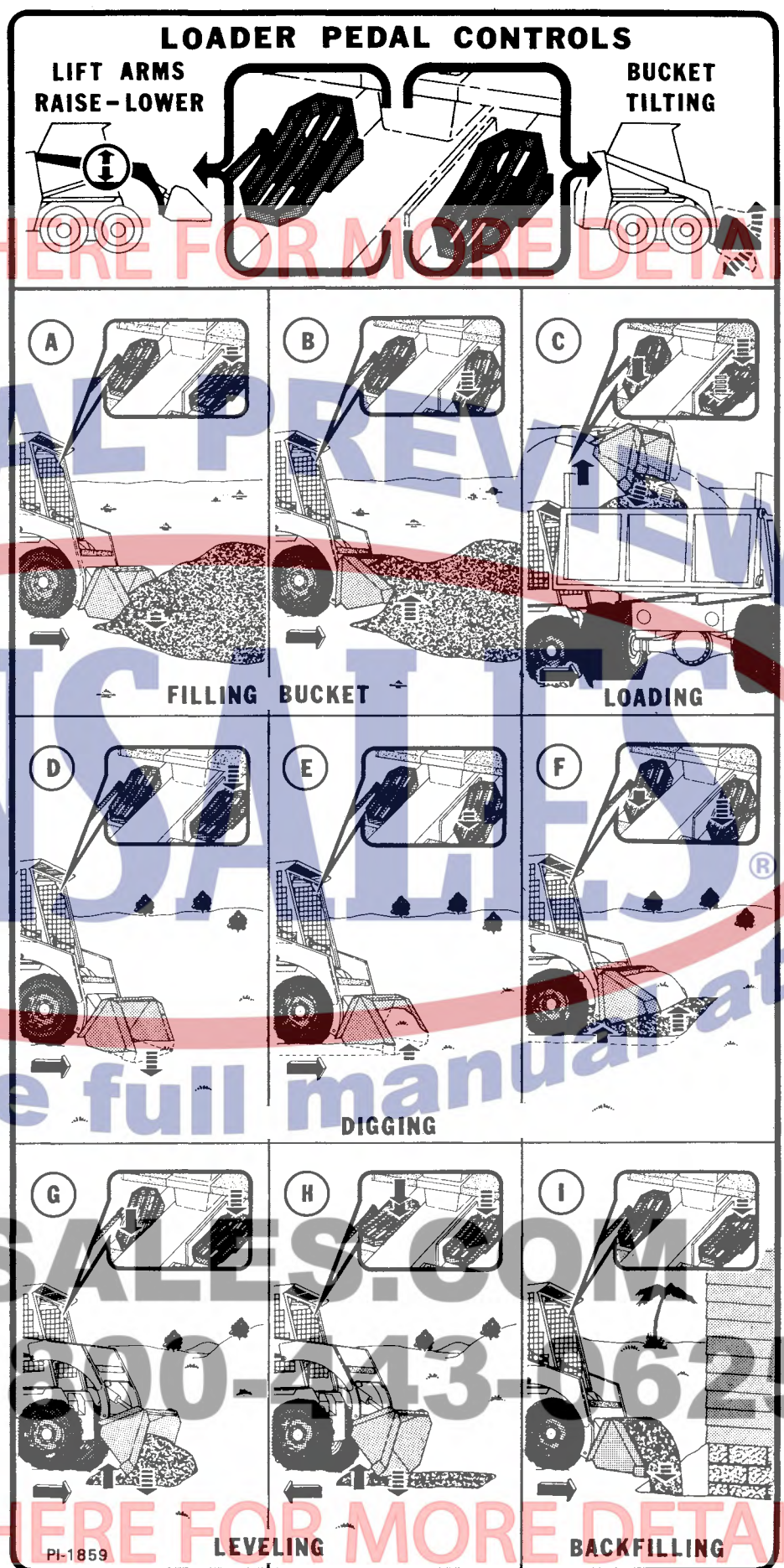


Fig. 20 Performing Bucket Operations

Fluid also goes from the control valve to the hydrostatic transmission pumps to operate the drive system.

A 10 micron filter is installed on the right side of the engine compartment (Fig. 38). This filter is used to clean the fluid for the hydrostatic transmission.

An oil cooler is located above the engine. The oil cooler is used for cooling the hydraulic fluid before it returns to the vane pump.

HYDRAULIC/HYDROSTATIC FLUID RESERVOIR

Use only recommended fluid in the hydraulic system (See "Specifications", page 39).

To Check and Add Fluid

To check the fluid level in the hydraulic reservoir:

1. Park the loader on a level surface.
2. Open the lower check valve on the side of the reservoir (Fig. 39, Item 1). The fluid level is good if fluid appears. If no fluid appears, close the valve and proceed with step 3.
3. Open the upper check valve (Fig. 39, Item 2). Remove the fill cap from the reservoir (Fig. 40). Add fluid to the reservoir until it appears at the upper check valve. Close the valve and replace the fill cap.

Removal of Hydraulic Fluid

Remove the fluid from the hydraulic reservoir and replace it with new fluid every 2,000 hours of operation. Also replace the fluid after it has become contaminated and after any major repairs.

To drain the reservoir:

1. Remove the hydraulic filter element. Remove the hose from the filter housing. Let the oil flow into a container.
2. Connect the hose to the filter housing when the reservoir is empty. Install a new filter element.
3. Remove the spring clip and screen from the fill pipe (Fig. 41). Wash the screen in clean solvent and install it in the full pipe.
4. Open the upper check valve (Fig. 39, Item 2). Remove the fill cap from the reservoir (Fig. 40). Add fluid to the reservoir until it appears at the upper check valve (about 3.5 gallons [13 Ltrs.]). Refer to "Specifications", page 39, for type and amount of fluid. Close the check valve and replace the fill cap.

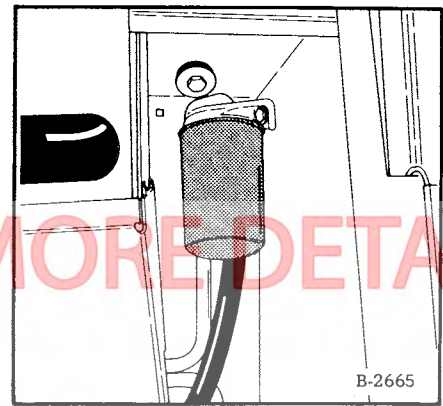


Fig. 38 10 Micron Filter



Fig. 39 Hydraulic Reservoir Level Check

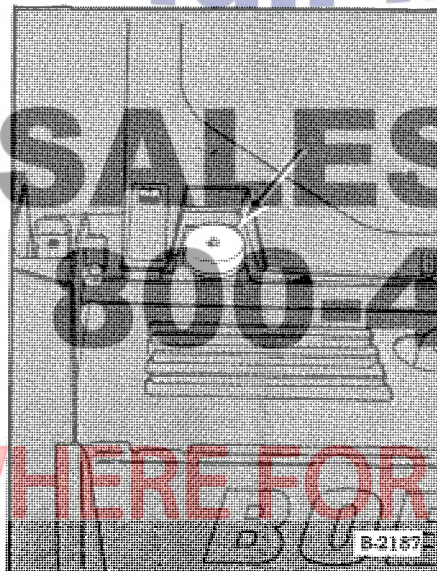


Fig. 40 Hydraulic Reservoir Fill Point

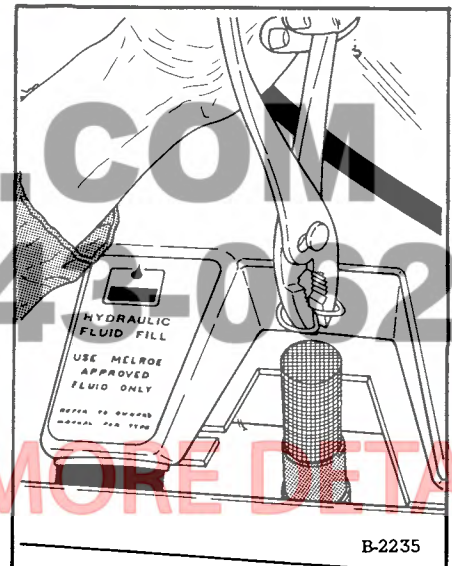


Fig. 41 Removing Filler Pipe Section

REPLACEMENT OF HYDRAULIC FILTER

Replace the filter after every 100 hours of operation or more often if necessary.

To replace the element:

1. Remove the filter (Fig. 42). Use a pan to catch any fluid you may spill.
2. Clean the base of the filter housing.
3. Lubricate the rubber gasket on the filter.
4. Install the filter element. Tighten the filter by hand only.
5. Inspect for leaks after you operate the loader.

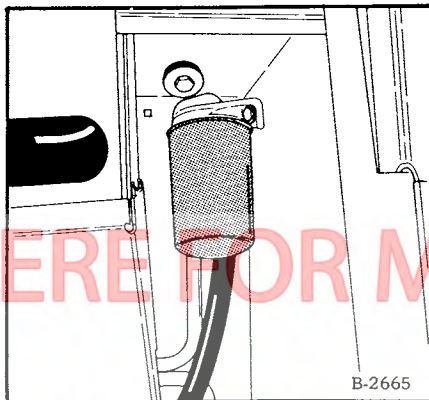


Fig. 42 Hydraulic Oil Filter

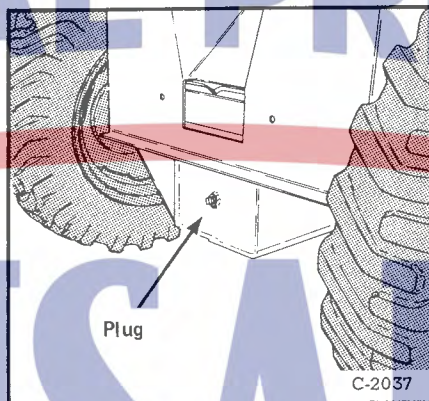


Fig. 43 Chaincase Check/Fill Plug

FINAL DRIVE TRANSMISSION (CHAINCASE)

The chaincase contains the final drive sprockets and chains. The chaincase is filled with the same type of fluid as the hydraulic/hydrostatic system for chain lubrication. Refer to "Specifications" on page 39.

To check the fluid level:

1. Place the loader on a level surface.
2. Remove the plug from the front of the transmission housing (Fig. 43).
3. Add fluid through the hole until the fluid level reaches the hole. Install the plug.

TIRE MAINTENANCE

Check the tires regularly for wear, damage and correct pressure. Refer to "Specifications" on page 40.

Tire Rotation

When two tires become worn more than the other two, put them both on the same side. The front tires should be moved to the rear and the rear tires moved to the front to keep wear even (Fig. 44).

When new tires are installed, always keep the tires on each side of the machine the same size.

NOTE: Both wheels on each side of the Bobcat are connected together and are driven at the same speed, therefore, the tires must be the same size.

Do not put fluid in the tires on this loader.

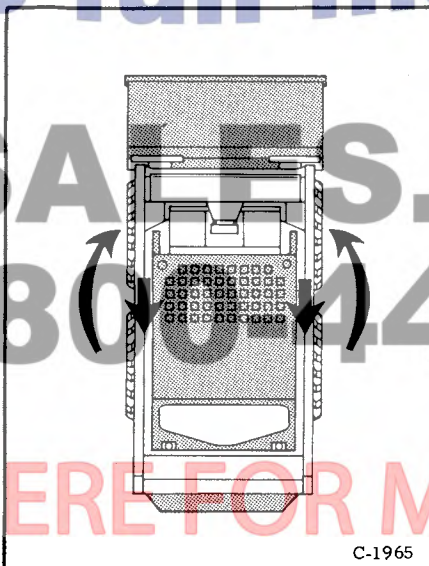


Fig. 44 Tire Rotation

LUBRICATION OF THE LOADER

Lubricate the loader as specified in the service schedule on page 11 for best performance of the loader.

Figure 45 shows the location of the grease fittings.

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

Lubricate the seat rails for easy movement when you adjust the seat (Fig. 46).

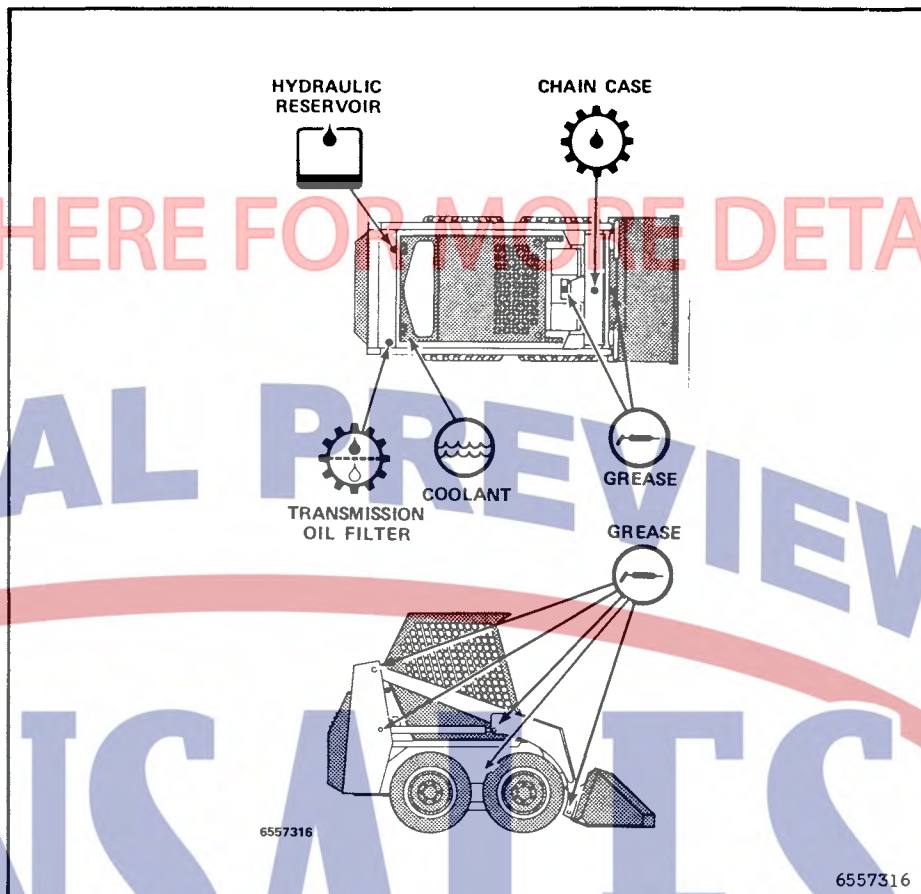


Fig. 45 Lubrication Points

BOB-TACH

Inspect the Bob-Tach for wear or damage (See Service Schedule on page 11).

When the levers are pushed down into the locked position (Fig. 47, Item 1), the wedges must extend far enough to engage in the slots in the attachment (Fig. 48).

Replace wedges that are bent or broken.

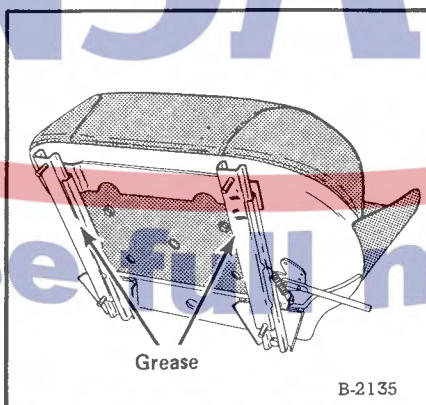


Fig. 46 Seat Rail Lubrication

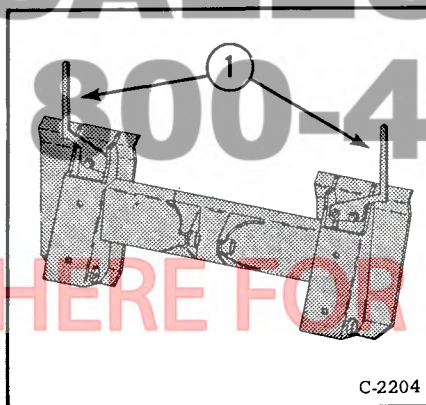


Fig. 47 Bob-Tach

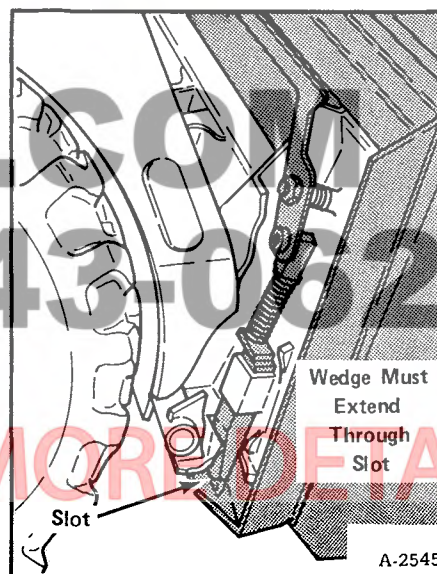


Fig. 48 Locking Wedges

PIVOT PINS

All pivot points (lift arms, Bob-Tach and cylinders) have large pins that are held in place with lockbolts (Fig. 49). Check that the lockbolts are tightened.

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ENGINE AND ATTACHING PARTS (Cont'd)

Ref.	Item
1.	Grill Assembly
2.	Over Flow Tank
3.	Radiator
4.	Radiator Mount
5.	Radiator Hoses
6.	End Plate Shrouding

Ref.	Item
7.	Fan
8.	Fan Shrouding
9.	Transmission Adaptor Coupling
10.	Universal Joint
11.	Alternator
12.	Starter

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HYDRAULIC CYLINDERS Doubleacting

Function	Lift	Tilt
Bore	2.0 in. (50,80 mm)	3.25 in. (82,55 mm)
Rod	1.25 in. (31,75 mm)	1.50 in. (38,10 mm)
Stroke	25 in. (635 mm)	12.30 in. (312,42 mm)

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HYDROSTATIC TRANSMISSION & FINAL DRIVE

Pump Type	 Inline, axial piston
Pump Displacement	 2.5 cu. in. (40,96 cm ³)
Motor Type	 Geroler
Motor Displacement	 10 cu. in. (163,8 cm ³)
Final Drive	 Gear box, 4 roller chains & sprockets, in oil bath

ELECTRICAL

Alternator	 37 amp, belt driven
Battery	 12 volt, sealed
Starter	 12 volt, gear drive

TIRES

Flotation	 10 x 16.5, 4 ply 35 PSI (240 kPa)
Standard	 7.00 x 15, 6 ply 55 PSI (379 kPa)

FLUID CAPACITIES

Fuel tank	 9 gal. (23 Ltr.)
Engine Lube Oil (With Filter)	 4 qt. (3,8 Ltr.)
Transmission (Chaincase)	 31 qt. (29 Ltr.)
Hydraulic Reservoir	 3.5 gal. (13 Ltr.)
Engine Cooling System	 12 qts. (11 Ltr.)

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