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Operator's Manual

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MANUAL PREVIEW

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BOBCAT LOADER

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CLARK Melroe
Division

CLARK EQUIPMENT CO.
Gwinner, North Dakota 58040

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FOREWORD

This book is written to give the owner/operator necessary operating, routine servicing and preventive maintenance instructions for the Model 722 Bobcat.

Read this manual thoroughly and become completely familiar with all the aspects of 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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722 BOBCAT LOADER

PICTORIAL NOMENCLATURE

OPERATOR ENCLOSURE (ROPS)

WINDOW SCREENS

STEERING LEVER

SAFETY STEP

TILT CYLINDERS

SAFETY STEP

BUCKET

UPRIGHT

LIFTARM

LIFTARM CYLINDER

SIDE TANK COVER

C-2125

RADIATOR COVER

RADIATOR GRILL

UPRIGHT

REAR DOOR

OPERATOR ENCLOSURE (ROPS)

LIFTARM

LIFTARM CYLINDER

SIDE TANK COVER

BUCKET

FLOTATION TIRES (OPTIONAL)

C-2113

Dumping the Bucket (Fig. 14)

Keep the bucket low while moving to dump area.

1. Press heel of lift arm pedal to raise bucket high enough to clear truck box or bin (C). When raising lift arms level the bucket by pressing on toe of tilt pedal.
2. Drive slowly forward until bucket is over the truck box or bin. Press the toe of the tilt pedal to tilt bucket down. If all of the material is being dumped on the near side of the box, it can be pushed to the other side by the bucket (C).

Breaking Ground (Digging) (Fig. 14)

To dig into ground:

1. Press toe of tilt pedal to tilt bucket down until lip contacts the ground.
2. Drive slowly forward and continue to tilt bucket down to penetrate the ground (D).
3. Raise the bucket lip (tilt) slightly to increase wheel traction and to keep a uniform depth (E).
4. Continue to drive forward until the bucket is filled. In hard digging ground conditions, the bucket may be filled easier by raising and lowering the cutting edge with the tilt control pedal, while slowly driving forward.
5. When the bucket is filled, tilt it back as far as it will go (F).

Leveling (Fig. 14)

1. To fill uneven ground raise lift arms and tilt bucket down while driving forward to spread fill material (G).
2. To level a pile, raise lift arms and tilt bucket down over pile to be leveled. With lift pedal in "float" position (firm pressure with toe*) drive backwards to spread fill (H).

*By pressing firmly on toe of lift arm pedal will put lift control valve into "detent", allowing lift arms to "Float" when leveling.

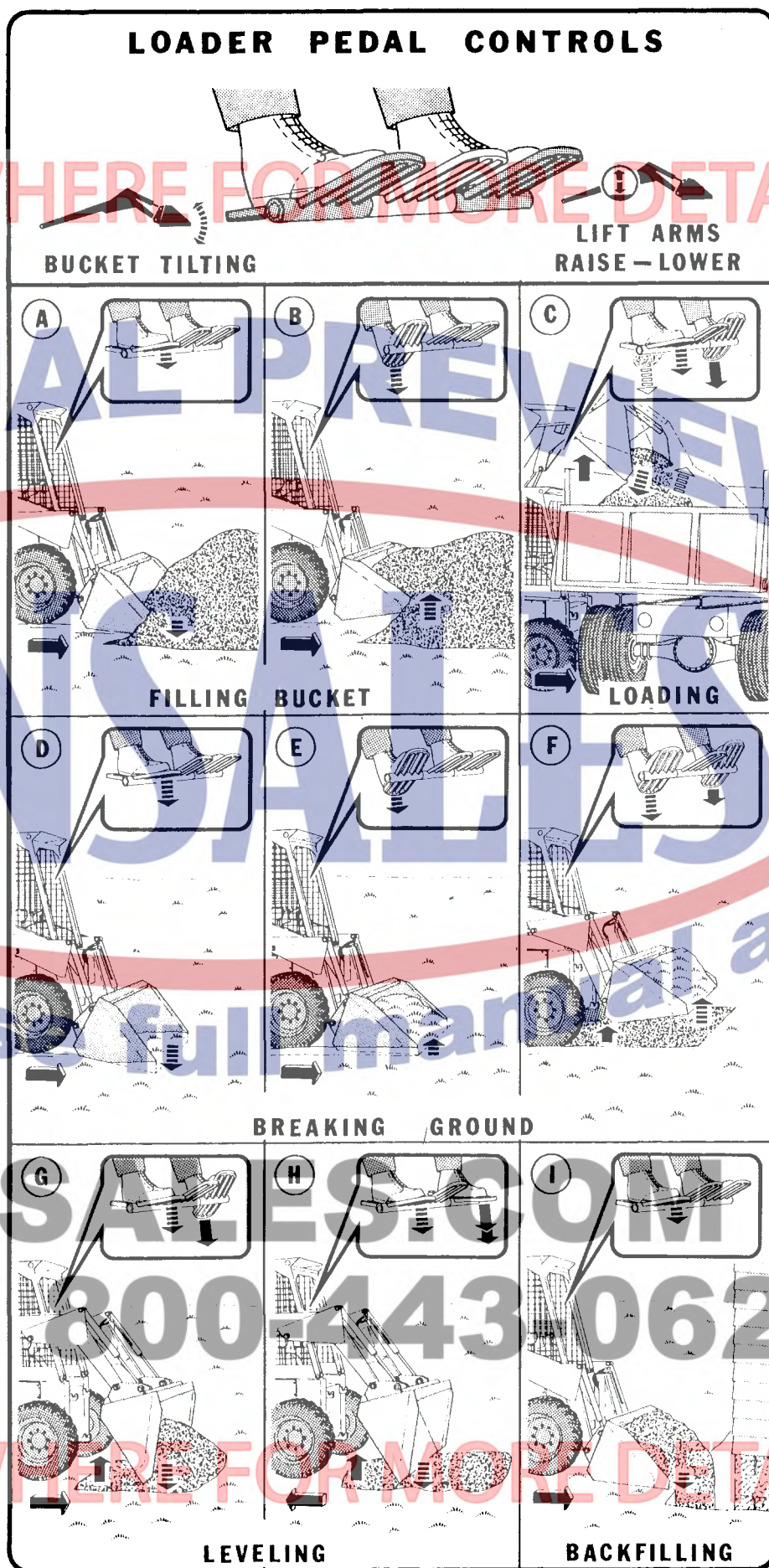


Fig. 14 Loader Operations

MECHANICAL TRANSMISSION (Chain Reduction)

The chain reduction drive system (Fig. 43) should normally not require any servicing other than routine checks. Check periodically for loose chains during scheduled service inspections (See service schedule, Page 11). Adjustable idler sprockets are installed on each reduction chain in the transmission.

Check for loose chains as follows:

1. Raise the machine so that all four wheels are off the ground.
2. Grab hpld of one of the wheels and check for freeplay by rocking it back and forth (Fig. 44). There should not be more than 1/4" freeplay measured at the tread on any wheel. Check both sides of the machine.
3. If there is excessive freeplay (1/4" maximum as measured at wheel) see Bobcat dealer for servicing.

PARKING BRAKE

The parking brakes are disc type and self-equalizing. When brake activating linkages require adjustment due to wear, see Bobcat dealer.

LUBRICATION OF LOADER

Refer to the service schedule for lubrication intervals. Figure 45 shows the location of grease fittings on the 722 Bobcat. There are 22 lubrication points, 25 when loader is equipped with second auxiliary.

Always use a good multi-purpose lithium based grease when lubricating the Bobcat. Apply grease until excess shows.

BOB-TACH

Occasionally check the Bob-Tach locking levers and wedges for wear or damage. The lever springs should be tight enough to hold the levers securely in "over-centered" (locked) position when the levers are pushed down (Fig. 46).

Check the bucket wedges for condition. Bent or broken wedges should be replaced.

See that safety pins are in place.

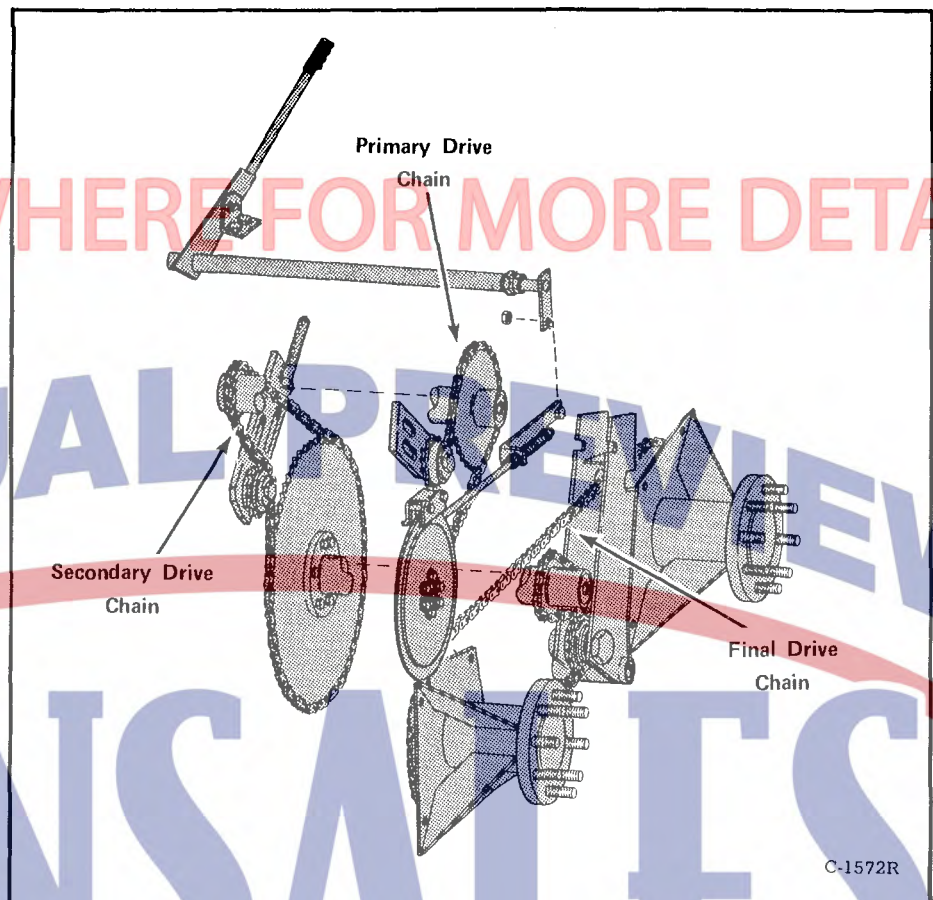


Fig. 43 Chain Reduction Drive System



Fig. 44 Checking For Freeplay

PIVOT PINS

All pivot points (Lift arm, Bob-Tach and cylinder) use pivot pins which are held in place by 3/8" diameter lock bolts (Fig. 47). Tighten lock bolts to 20 ft.-lbs. torque. Check them occasionally for tightness.

WHEEL NUTS

Wheel mounting nuts should be frequently checked for tightness. This is particularly important after the first few hours of operation. Loose mounting nuts will result in enlarging of the stud holes and wheel loss. Tighten wheel mounting nuts to 110 ft.-lbs. torque.

TIRE MAINTENANCE

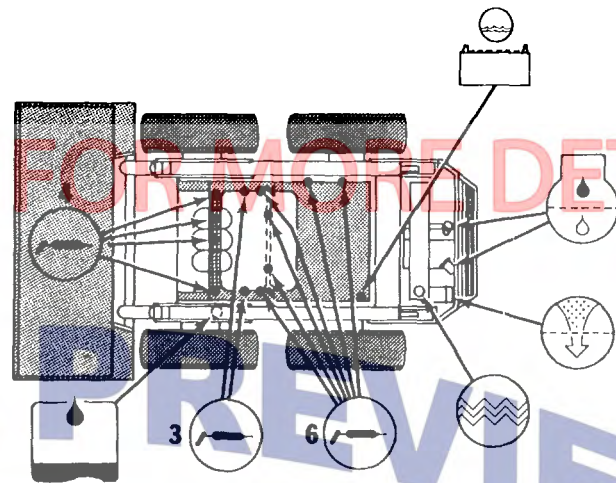
7:00 x 15 tires should be inflated to 50 PSI maximum. If pressure is allowed to go lower than 50 PSI the machine will be hard to turn and tire wear will be greater. 10:00 x 16.5 flotation tires should be inflated to 25 PSI but can be inflated to 50 PSI to improve operation on hard surfaces.

WARNING

Do not fill tires with ballast solution (calcium chloride, etc.)

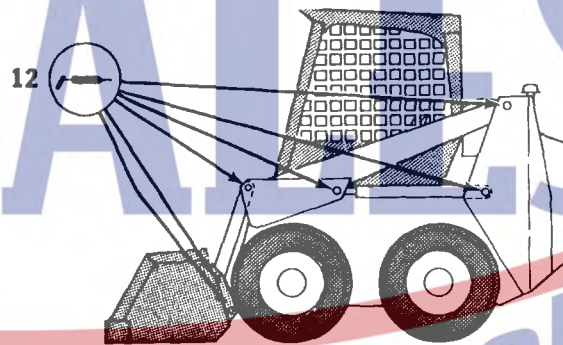
TIRE ROTATION

If both rear or both front tires wear excessively, rotate them to the opposite end of the machine, as shown in figure 48. This should be done as soon as wear is noticed. Excessive wear may be caused by incorrect inflation, improper bucket size for the loader application or by improper operation (loading bucket with front wheels off the ground).



CODE FOR SYMBOLS

Engine Oil And Filter	Coolant	Grease	Air Cleaner	Hydraulic Reservoir	Battery



6554925

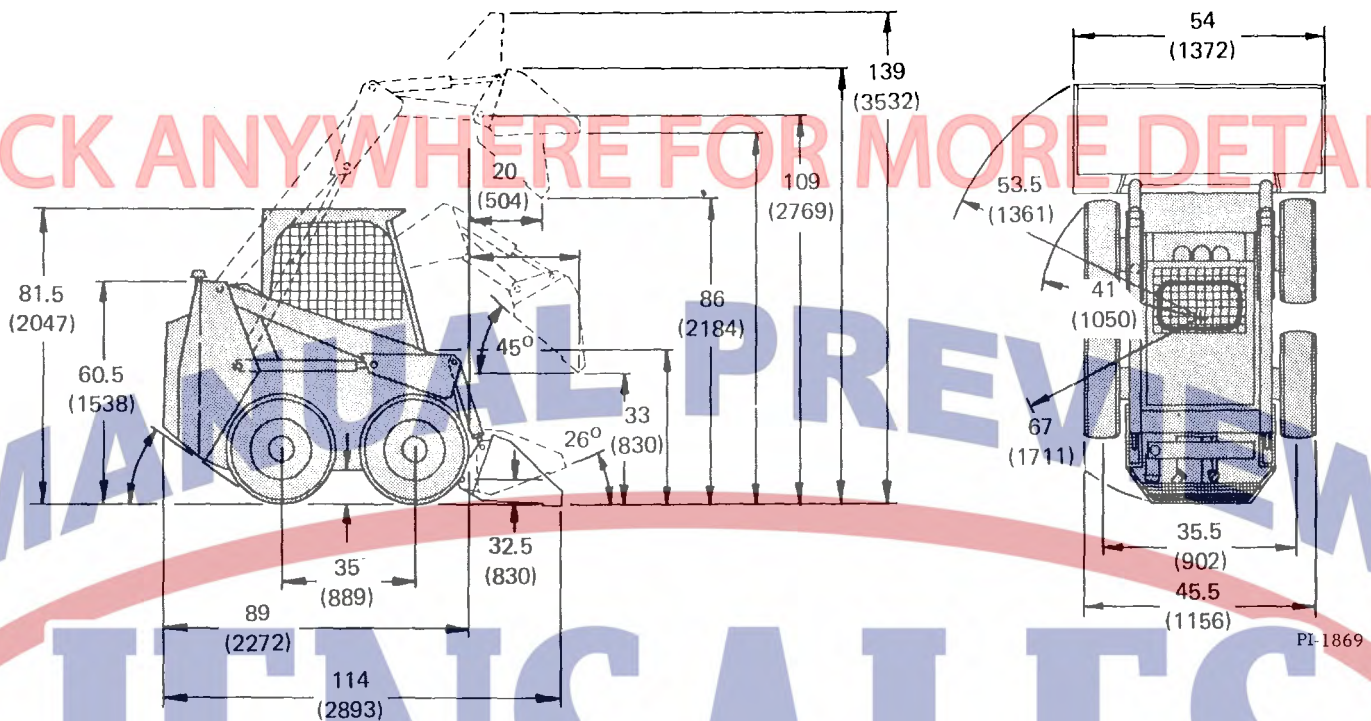
Fig. 45 Lubrication Points



B-2303

Fig. 46 Bob-Tach Locking Levers

LOADER SPECIFICATIONS



Dimensions are given for loader equipped with dirt bucket and may vary with other bucket types. All dimensions are shown in inches. Metric dimensions are given in millimeters enclosed by parentheses.

Where applicable, specifications conform to ICED & SAE standards and are subject to change without notice.

OPERATIONAL & PERFORMANCE

Operating Weight	
Rated Operating Capacity	 1200 lbs. (540 kg)
Hydraulic Function Time:	
Raise to Maximum Height	 4.7 sec.
Lower from Maximum Height	 2.8 sec.
Dump Bucket	 1.4 sec.
Rollback Bucket	 1.4 sec.
Travel Speed:	
Work Range	 Infinitely variable 0 to 4.2 MPH (6.8 km/hr)
Transport Range	 Infinitely variable 0 to 6.3 MPH (10.1 km/hr)

Cylinders Doubleacting

Function	Lift	Tilt
Bore	2 in.	2 in.
Rod	1.25 in.	1 in.
Stroke	25.9 in.	16.6 in.

ELECTRICAL

Alternator	 Enclosed belt driven 22 amp.
Battery	 12 volt 70 amp.-hr. rating
Starter	 12 volt gear drive

POWER TRAIN

Transmission	 Twin infinitely variable fully reversing hydrostatic
Reduction Ratio:	
High Range	 Infinite to 32.21:1
Low Range	 Infinite to 46.5:1
Final Drive	 #80 roller chain running in sealed oil bath.
Brakes	 Disc type

CAPACITIES

Fuel	 16.5 gal. (62.5 L)
Engine Lubricant Including Filter	4 qt. (3.8 L)
Hydraulic Reservoir	 17 gal. (64 L)

TIRES

Standard	 7:00 x 15 - 6 ply
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ENGINE

Fuel	 Regular gasoline
Horsepower	 30 (22 kw)
Maximum Torque	 71 ft.-lbs. (96 Nm) @ 1800 RPM
Number of Cylinders	 4
Displacement	98 cu. in. (1.6 L)
Cooling Medium	 Liquid
Air Cleaner	 Replaceable dry cartridge

LOADER HYDRAULICS

Pump	 Engine driven vane type
System Relief Pressure	 2100 PSI (14,500 kPa)