



Bobcat Operator's Manual

630

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Operator's Manual

CLARK 600 SERIES



bobcat

OWNER'S MANUAL

630



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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630 BOBCAT LOADER

PICTORIAL NOMENCLATURE

OPERATOR GUARD

STEERING LEVER

LIFT ARM

TILT CYLINDER

BUCKET

SEAT

LIFT CYLINDER

AUXILIARY HYDRAULIC LINES

C-2223

OPERATOR GUARD

UPRIGHT

EXHAUST PIPE

REAR DOOR

LIFT CYLINDER

C-2222

OPERATING THE BOBCAT LOADER

With attachment (bucket) installed, drive slowly to a level, clear area to practice operating the loader until completely familiar with its operation.

When first learning to operate the Bobcat, use a lower throttle setting. Engage steering levers and foot controls slowly to "get the feel" of their responses.

Operating Hints

1. Take full advantage of the Bobcat maneuverability. Keep the hauling distance as short as possible. Keep the working area small to keep cycle time short.
2. Keep the working area as level as possible.
3. Fill bucket to rated load capacity. The loader will handle better with rated load rather than a partial load.
4. Reduce cycle time by using a "pivot spin" rather than a "backing, stop and go" turn.
5. Level the bucket when raising the load to keep material from spilling over the back of the bucket.
6. When going up and down slopes, keep heavy end of loader uphill. Go directly up and down, not across slopes (Fig. 19).

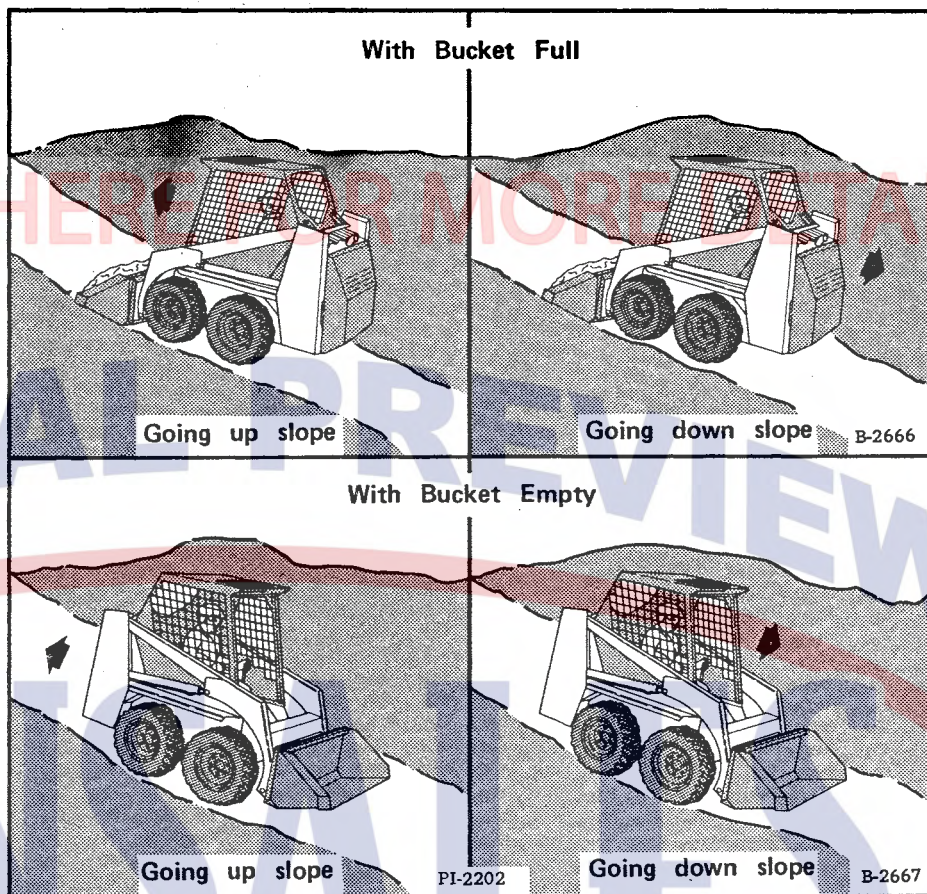


Fig. 19 Driving Up and Down Slopes



WARNING

Always carry the bucket low while moving.

Filling Bucket from a Pile (Fig. 20)

1. With lift arms in down position, press toe of tilt pedal to place cutting edge of the bucket on the ground (A).
2. Drive forward into the pile and press heel of tilt pedal to raise the bucket lip as far as it will go and back away (B).

Dumping the Bucket (Fig. 20)

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).

Also occasionally lubricate the seat rails (Fig. 42) to maintain easy movement for seat adjustment.

BOB-TACH

The Bob-Tach should be inspected regularly (See service schedule, page 11) for condition and wear.

The levers, when pushed down into "lock" position (Fig. 43, Item 1) must extend wedges far enough to engage the slots in the attachment (Fig. 44).

Replace bent or broken wedges.

PIVOT PINS

All pivot pins (lift arm, Bob-Tach and cylinder) use large pins which are held in place by lockbolts (Fig. 45).

Check lockbolt nuts for tightness.

AUXILIARY CONTROL LOCKBOLT

The lockbolt must be removed from the auxiliary control pivot (Fig. 46) before using the auxiliary hydraulics. Remove the plate in front of seat to remove the lockbolt. The lockbolt should be installed whenever auxiliary hydraulics are not being used.

FORMS

DELIVERY REPORT

The Delivery Report (Fig. 47) is to be filled out by the dealer and signed by the owner or operator on delivery of the Bobcat to the owner. Make certain that the dealer explains the form and that it is filled out completely.

THIRTY HOUR INSPECTION

After the initial 30 operating hours have passed, the dealer will perform a complete inspection of the Bobcat loader at no charge to the owner.

The Bobcat dealer will explain the 30 hour inspection procedure at the time the new machine is delivered.

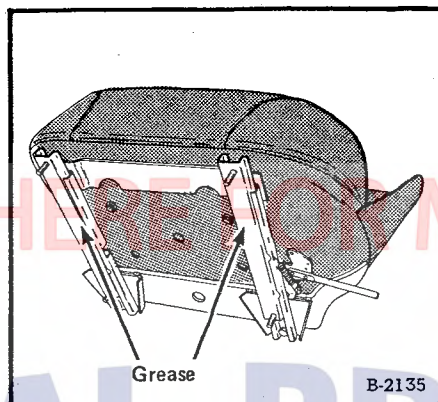


Fig. 42 Seat Rail Lubrication

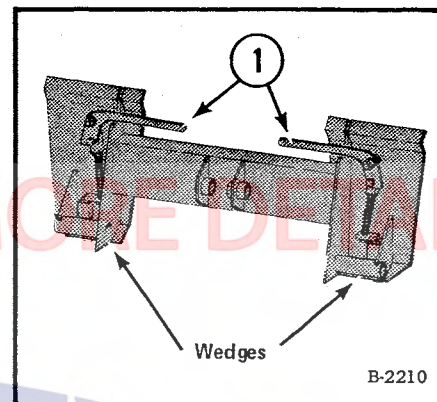


Fig. 43 Bob-Tach

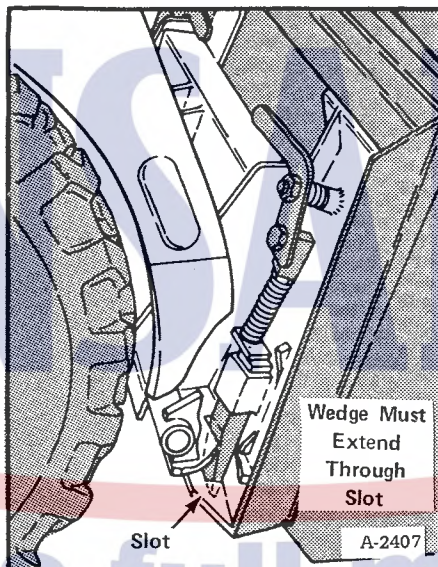


Fig. 44 Locking Wedges

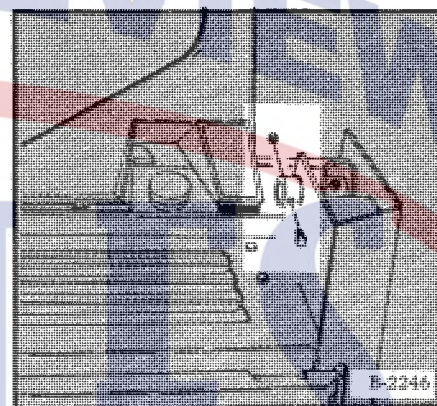


Fig. 45 Pivot Pin Location



Fig. 46 Auxiliary Control Lockbolt

CLARK BOBCAT LOADER DELIVERY REPORT		WINNER, ND 58040
Dealer Name: _____	Machine Model: _____	
Address: _____	Machine Serial No.: _____	
City: _____ State: _____ Zip: _____	Engine Serial No.: _____	
Operator Name: _____	Body Serial No.: _____	
Address: _____	Drive Machine (Optional): _____	
City: _____ State: _____ Zip: _____	Machine Load For: _____	
	Bucket Size: _____	
	Tire Size: _____	
The following items are to be checked (✓) as explained to owner by dealer at time of delivery:		
_____ Dealer's packet (Owner's Manual, etc.) given to owner.	_____ Hydraulic system, given in Owner's Manual.	
_____ Operator instructions as given in Owner's Manual and by dealer.	_____ Fueling and lubricating operations.	
_____ Operator demonstration needs on how to start, stop, park. Also how to lift, carry and dump bucket.	_____ Hydraulic system test and use.	
_____ Load capacity and effects of counterweights.	_____ Drive system (optional) test, drive system, etc. (See and adjustment).	
_____ Seat belt used and use.	_____ Warning in Owner's Manual with its obligations for owner and dealer.	
_____ Replace protective structure used and use.	_____ 30 hour inspection program given in Owner's Manual.	
Time Spent On Delivery: _____ Hrs. _____ Min. _____ Sec.		
1. Part 1 Procedures Understanding the Operation and Maintenance of This Machine. 2. Also Read Safety Conditions and Limitations as Explained in the Operator's Manual.		
_____ Dealer's Signature	_____ Date	_____ Buyer's Signature
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Fig. 47 Delivery Report

HYDRAULIC SYSTEM

Pump Type Vane
Pump Capacity 9.5 gpm (36 ltr./min.) @ 2500 RPM
Control Valve Open center with lift, tilt & auxiliary sections
System Relief Pressure 1750 PSI (12066 kPa)
Filtration 10 micron, replaceable cartridge, partial flow
Hydraulic Fluid Type 10W-30 or 10W-40 Class SE motor oil
(5W-30 at temp. below -10°F. [-23°C.])

HYDRAULIC CYLINDERS Doubleacting

Function	Lift	Tilt
Bore	2.0 in. (50,80 mm)	3.0 in. (76,20 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)

HYDROSTATIC TRANSMISSION & FINAL DRIVE

Pump Type Inline, axial piston
Pump Displacement 2.5 cu. in. (40,96 cm³)
Motor Type Geroter
Motor Displacement 20.1 cu. in. (329,40 cm³)
Final Drive 4 roller chains & sprockets in oil bath

ELECTRICAL

Alternator 25 amp, flywheel enclosed
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 10 gal. (38 Ltr.)
Engine Lube Oil (With Filter) 4 qt. (3,8 Ltr.)
Transmission (Chaincase)5 gal. (18,925 Ltr.)
Hydraulic Reservoir 3.5 gal. (13 Ltr.)