



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Bobcat
Operator's Manual
720
Skid Steer

Operator's Manual

purchase full manual at

JENSALES.COM
or Call 800-443-0625



CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
BOBCAT OR IT'S SUCCESSORS. **BOBCAT** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

FOREWORD

This book is written to give the owner/operator necessary operating, routine servicing and preventive maintenance instructions for the Model 720 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.

OPERATING
INSTRUCTIONS

PREVENTIVE
MAINTENANCE

TROUBLE-
SHOOTING

MAJOR
PARTS

GENERAL
INFORMATION

CONTENTS

GENERAL INFORMATION	.37
MAJOR PARTS	.31
OPERATING INSTRUCTIONS	1
PREVENTIVE MAINTENANCE	.11
TROUBLESHOOTING	.25

purchase full manual at

JENSALES.COM
or Call 800-443-0625

720 BOBCAT LOADER

PICTORIAL NOMENCLATURE



OPERATING INSTRUCTIONS

OPERATING
INSTRUCTIONS

BUCKET SIZE	6
COLD WEATHER STARTING CONDITIONS	6
DASH PANEL	2
LIFT, TILT AND AUXILIARY CONTROLS	4
MOUNTING & DISMOUNTING	1
NORMAL STARTING CONDITION	5
OPERATING THE BOBCAT LOADER	7
BACKFILLING	9
BREAKING GROUND	8
DUMPING THE BUCKET	8
FILLING BUCKET FROM A PILE	7
LEVELING	8
OPERATOR CONTROLS	2
PRE-STARTING INSPECTION	5
SAFETY	1
STARTING PROCEDURE	5
STOPPING THE ENGINE	6
TOWING	9
TRANSPORTING BY TRAILER	9
TRANSPORTING BY TRUCK	9
TRANSPORTING THE BOBCAT	9

MANUAL PREVIEW

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

PREVENTIVE MAINTENANCE

ACCESS TO ENGINE	12
AIR CLEANER SYSTEM	12
AIR IN HYDRAULIC SYSTEM	20
BOB-TACH	22
BOOSTER BATTERY USE	17
CONTROL LINKAGE	21
DELIVERY REPORT	24
DRAINING THE FLUID RESERVOIR	19
ELECTRICAL SYSTEM	16
ENGINE COOLING SYSTEM	15
ENGINE LUBRICATION SYSTEM	14
ENGINE OIL & FILTER CHANGE	15
ENGINE SERVICE	12
FUEL FILTER	14
FUEL SYSTEM SERVICE	13
HYDRAULIC FLUID, CHECK AND ADDING	19
HYDRAULIC/HYDROSTATIC TRANSMISSION FLUID	19
HYDRAULIC SYSTEM	18
HYDRAULIC SYSTEM LEAKS	21
HYDROSTATIC TRANSMISSION DRIVE SYSTEM	20
HYDROSTATIC TRANSMISSION MAINTENANCE	20
LUBRICATION OF LOADER	22
MECHANICAL TRANSMISSION (Chain Reduction)	22
OVERHEATING	21
PARKING BRAKE	22
PIVOT PINS	23
PRE-DELIVERY INSPECTION	24
QUICK COUPLERS	21
ROPS ENCLOSURE	12
SERVICE SCHEDULE	11
TEN (10) MICRON FILTER REPLACEMENT	20
THIRTY-HOUR INSPECTION	24
TIRE MAINTENANCE	23
TIRE REPLACEMENT	24
TIRE ROTATION	23
TRANSMISSION FLUID FILTERS	18
WHEEL NUTS	23

PREVENTIVE
MAINTENANCE

JENSALES.COM

or Call 800-443-0625

HYDRAULIC SYSTEM

Description: The 720 hydraulics are operated by a direct engine driven vane pump (See Figure 34 for the system fluid flow). The Bobcat side tanks are joined by a manifold at the bottom and serve as the fluid reservoir.

Fluid is drawn from the manifold through a 25 micron filter element (Item 1) by the vane pump (Item 2) which provides 10 gallons per minute at full engine RPM at 2100 - 2150 PSI to the control valve. Flow is directed through the tilt (bucket) control section, lift (boom) control section, auxiliary control section (optional) and beyond to the transmission. Depressing the foot pedals (one, or more, in combination) will allow the operator to smoothly raise or lower the boom while tilting or dumping the bucket. The optional auxiliary control and its pedal may at the same time be used to control a grapple, broom or other attachment.

Pedal angle may be adjusted for greater operation comfort by adjusting the linkage (Fig. 35). Change the pedal angle by removing the pin and turn the yoke clockwise to flatten the pedal and counterclockwise to steepen the pedal angle.

Angle adjustment is limited since there must be enough pedal movement to fully move the control valve spool.

TRANSMISSION FLUID FILTERS

The 720 uses two filters to protect the hydraulics. A spin-on 25 micron filter is located on the reservoir suction line, under the transmission pump assembly (Fig. 34, Item 1). A removeable plate is located on the lower rear of the machine to permit replacement of this filter (Fig. 36).

A second 10 micron filter is located at the right side of the transmission pump (Fig. 34, Item 3) and protects the transmission. This filter should be replaced after each 1,000 hours of operation, or when the "Filt" indicator remains lit. (See "10 Micron Filter Replacement, page 20.) If replacement of this filter fails to extinguish the "Filt" light, the suction filter should also be replaced.

To replace the suction (25 micron) filter, the following procedure is recommended:

1. Raise the rear of the machine 4 to 6 inches so that the filter will be above the reservoir fluid level. Place blocks under wheels for support.
2. Remove the plate under the rear of the machine, and using a filter wrench, loosen and unscrew the filter element (Fig. 36).
3. Clean the filter housing sealing surface and install the new filter element. Turn the filter on until it contacts the gasket, then tighten an additional 1/2 turn.
4. Lower the rear of the loader to aid in refilling the filter with fluid before starting the engine.

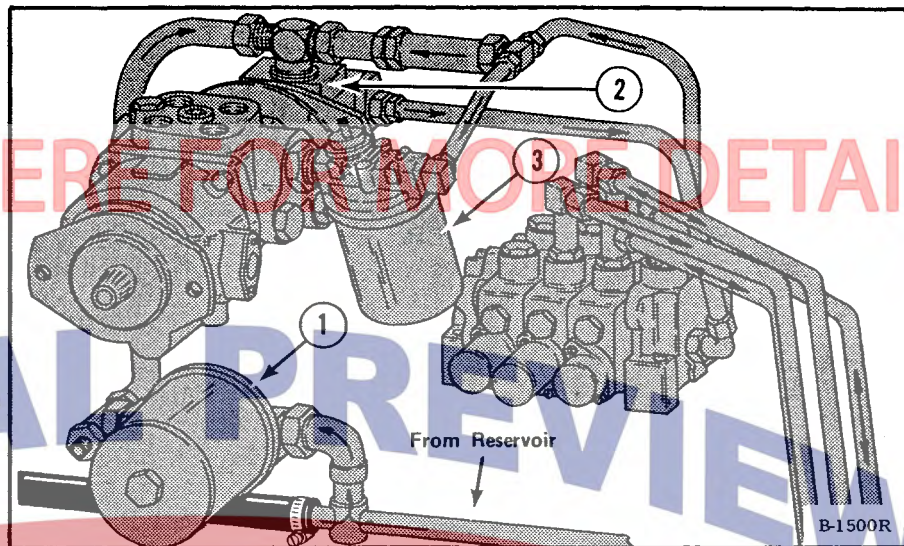


Fig. 34 Hydraulic Fluid Flow

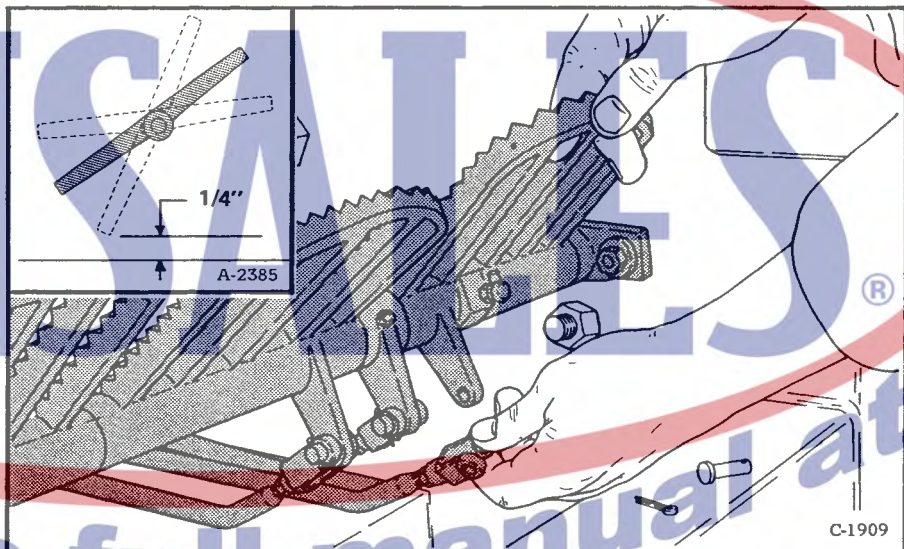


Fig. 35 Pedal Angle Adjustment

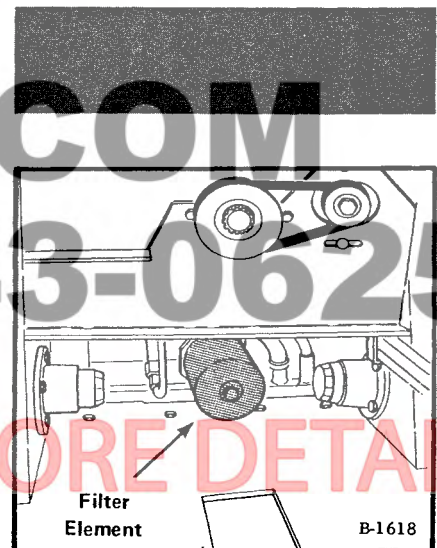


Fig. 36 Twenty-Five (25) Micron Filter

TROUBLESHOOTING

TROUBLESHOOTING THE ENGINE	.25
TROUBLESHOOTING THE HYDRAULIC SYSTEM	.26
TROUBLESHOOTING THE HYDROSTATIC TRANSMISSION	.27

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

TROUBLE-
SHOOTING

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

MAJOR PARTS

DRIVE SYSTEM	.36
ELECTRICAL SYSTEM	.34
ENGINE PARTS	.33
HYDRAULIC SYSTEM	.32
HYDROSTATIC SYSTEM	.35
MAIN FRAME PARTS	.31

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

MAJOR
PARTS

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

GENERAL INFORMATION

LOADER SPECIFICATION37

MACHINE TORQUES38

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES®

GENERAL
INFORMATION

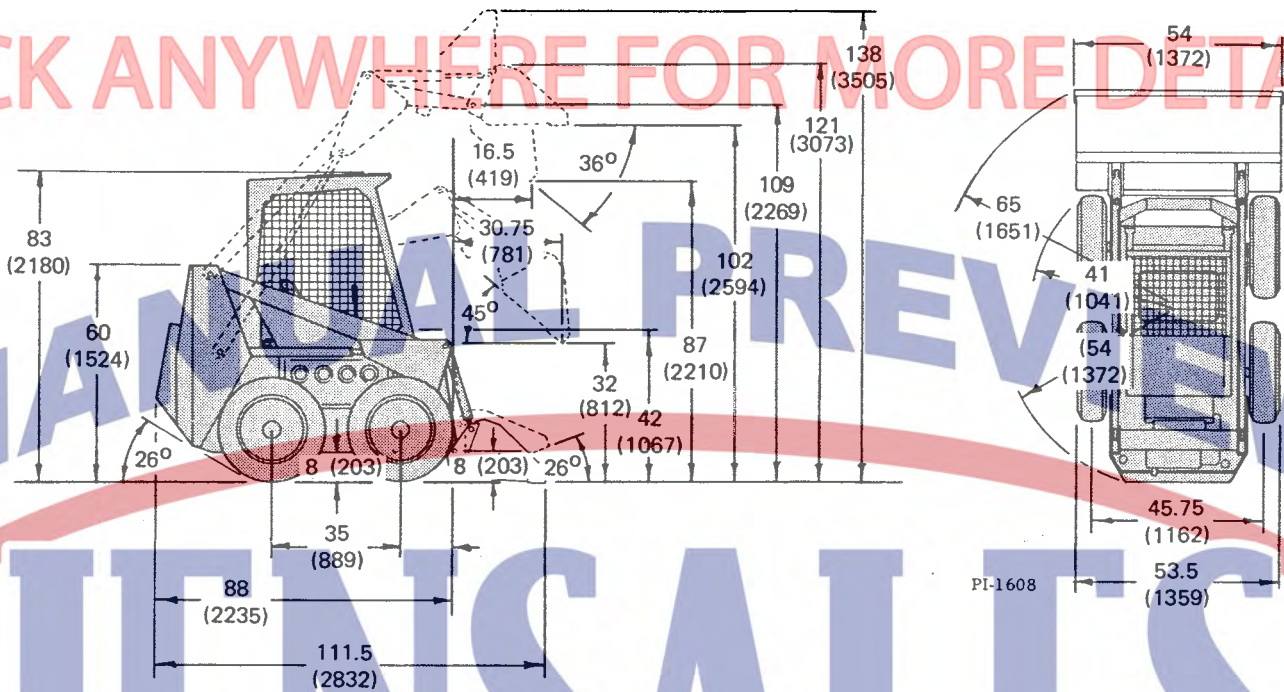
purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

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 IEMC & SAE standards and are subject to change without notice.

OPERATIONAL & PERFORMANCE

Operating Weight	4230 lbs. (1920 kg)
Rated Operating Capacity	1200 lbs. (544 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.)

ENGINE

Fuel	Regular gasoline
Horsepower	28 (20.9 kw) @ 2500 RPM
Maximum Torque	66.2 ft.-lbs. (89.8 Nm) @ 1800 RPM
Number of Cylinders	4
Displacement	107.7 cu. in. (1,767 L)
Cooling Medium	Air
Air Cleaner	Replaceable dry cartridge type w/condition indicator.

LOADER HYDRAULICS

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

Cylinders	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	Infinitive to 32.21:1
Low Range	Infinitive to 46.5:1
Final Drive	#80 roller chain running in sealed oil bath.

Brakes	Disc type
--------	-----------

CAPACITIES

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

TIRES

Standard	7:00 x 15 - 6 ply
----------	-------------------