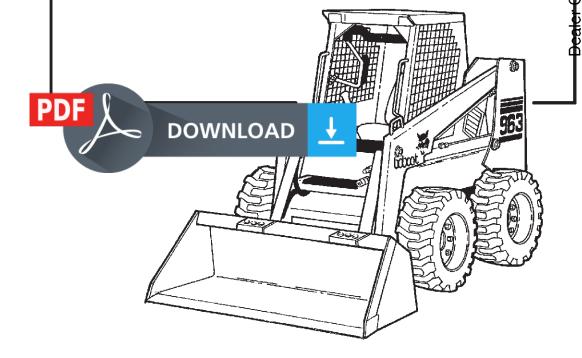




## Service Manual



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICSTM)

MELROE INGERSOLL-RAND

6724545 (11-97)

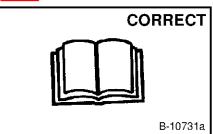
Printed in U.S.A.



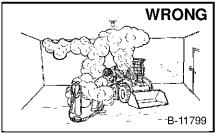
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903

Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



Never service the Bobcat Skid-Steer Loader without instructions.



good ventilation when Have welding grinding painted or parts.

Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.

Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

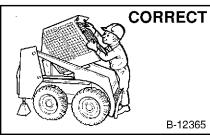


Stop, cool and clean engine of materials flammable before checking fluids.

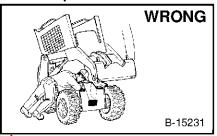
Never service or adjust loader with the engine running unless instructed to do so in the manual.

Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.

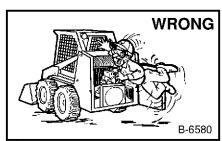
Never fill fuel tank with engine running, while smoking or when near open flame.



Use the correct procedure to lift or lower operator cab.



Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised supported bv unless approved lift arm support device. Replace it if damaged.



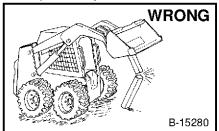
Keep body, jewelry and clothing from moving parts, electrical contact, hot parts and exhaust.

Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

Keep rear door closed except for service. Close and latch door before operating the loader.

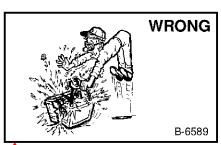


Cleaning and maintenance are required daily.



Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.

Never modify equipment or add attachments not approved by Bobcat Company.



Lead-acid batteries produce flammable and explosive gases.

Keep arcs, sparks, flames and lighted tobacco away from batteries.

Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well immediate medical and get attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL. Always use genuine Bobcat** replacement parts. The Service Safety Training Course is available from your Bobcat dealer.

MSW01-0805



## **ALPHABETICAL INDEX**

ACTUATORS 10-1 ACTUATOR VOLTAGE TEST 10-1 A.H.C. COMPONENTS 10-1 A.H.C./PWM CONTROLLER 10-1 A.H.C. HANDLE 10-1 A.H.C. STEERING LEVER 10-1 AIR CLEANER HOUSING 7-1 AIR CLEANER SERVICE 1-1 ALTERNATOR 6-1 ALTERNATOR BELT 1-1 AXLE SEAL 4-1 AXLE, BEARINGS AND SPROCKET 4-1	ELECTRICAL/HYDRAULIC CONTROL REF. 8–1 ELECTRICAL SYSTEM INFORMATION 6–1 ENGINE
BATTERY       6-1         BICS™       8-1, 10-1         BICS™ SYSTEM CONTROLLER       8-1         BICS™ VALVE       2-1, 10-1         BLOWER FAN       7-1         BOB-TACH       5-1         BOSS DIAGNOSTIC TOOL       8-1         BOSS INSTRUMENT PANEL       8-1         BOSS UNIT       8-1         BRAKE/TWO SPEED BLOCK       4-1         BUCKET POSITION VALVE       2-1	FAN DRIVE TENSION PULLEY
CAMSHAFT AND TAPPETS 7-1 CHAINCASE FLUID 4-1 COOLANT RECOVERY TANK 7-1 COOLING SYSTEM 7-1 CONTROL PANEL 3-1 CONTROL PEDALS 2-1 CONTROL PEDALS MOUNTING PANEL 2-1 CRANKSHAFT AND BEARINGS 7-1 CYLINDER HEAD 7-1	HANDLE CONTROL UNIT 10–10 HANDLE CONTROL UNIT TEST 10–10 HYDRAULIC CONTROL VALVE 2–1, 10–15 HYDRAULIC CONNECTION SPECIFICATONS 9–14 HYDRAULIC CYLINDER 2–15 HYDRAULIC/HYDROSTATIC FILTER 2–12 HYDRAULIC/HYDROSTATIC FLUID SPEC 9–1 HYDRAULIC FLUID RESERVOIR 2–15 HYDRAULIC PUMP 2–16 HYDRAULIC SYSTEM INFORMATION 2–16 HYDRAULIC/HYDROSTATIC SYSTEM 1–10
DECIMAL & MILLIMETER EQUIVALENTS 9-1 DRIVE BELT 3-1 DRIVE BELT IDLER PULLEY 3-1 DRIVE BELT SHIELD 3-1 DRIVE BELT TENSIONER PULLEY 3-1 DRIVE CHAINS 4-1	HYDROSTATIC CONTROLLER 3–15 HYDROSTATIC MOTOR 3–16 HYDROSTATIC MOTOR COVER 3–16 HYDROSTATIC PUMP 3–16 HYDROSTATIC SYSTEM INFORMATION 3–1 INTAKE MAINIFOLD 7–1
	LIFT ARMS
A.H.CADVANCED HAND CONTROL SYSTEM	MAIN RELIEF VALVE

A.H.C.-ADVANCED HAND CONTROL SYSTEM BICS-BOBCAT INTERLOCK CONTROL SYSTEM BOSS-BOBCAT OPERATION SENSING SYSTEM PWM-PULSE WITH MODULATION



Thank you very much for your reading.

Please click here to get more information.