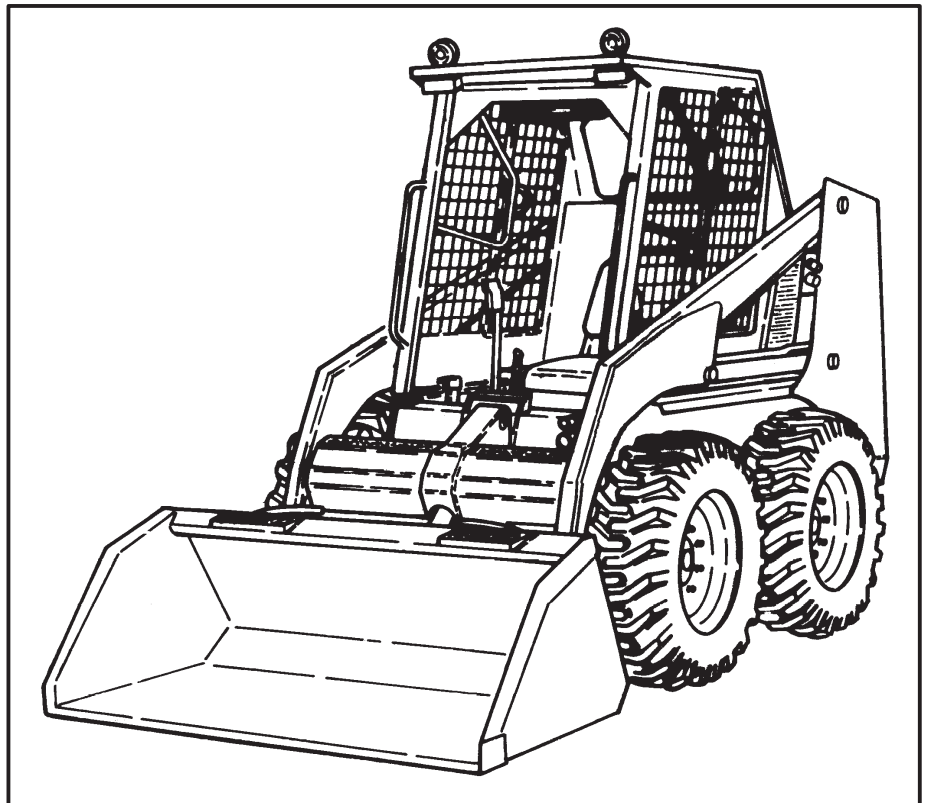


Operation & Maintenance Manual

Doosan purchased Bobcat Company from Ingersoll-Rand Company in 2007. Any reference to Ingersoll-Rand Company or use of trademarks, service marks, logos, or other proprietary identifying marks belonging to Ingersoll-Rand Company in this manual is historical or nominative in nature, and is not meant to suggest a current affiliation between Ingersoll-Rand Company and Bobcat Company or the products of either.

753 Base S/N 511350883 & Above
753 Plus S/N 511525541 & Above
753H Plus S/N 511011007 & Above

**BASE
PLUS
HIGH
HORSEPOWER**



**MELROE
INGERSOLL-RAND**

6722761 (11-98) Revised (6-12)

Printed in U.S.A.



© Melroe Company 1998

OPERATOR SAFETY WARNINGS

⚠ WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

CORRECT

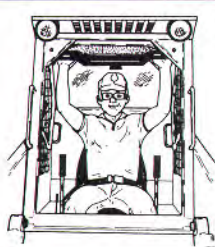


B-10731

⚠ Never use the loader without instructions. See machine signs (decals), Operations & Maintenance Manual and Handbook.

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

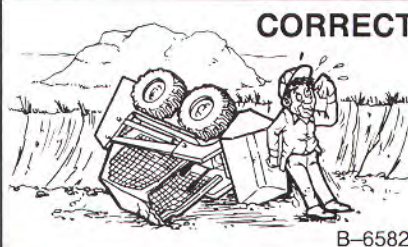
CORRECT



B-7403

⚠ Always use the seat bar and fasten seat belt snugly.
⚠ Always keep feet on the pedals when operating loader.

CORRECT



B-6582

⚠ Never use loader without operator cab with ROPS and FOPS approval.

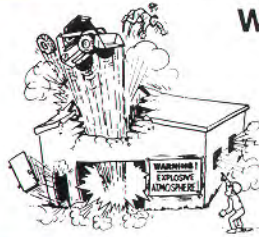
WRONG



B-13418

⚠ Never use loader as man lift or elevating device for personnel.

WRONG



B-6578

⚠ Do not use loader in atmosphere with explosive dust or gas or where exhaust can contact flammable material.

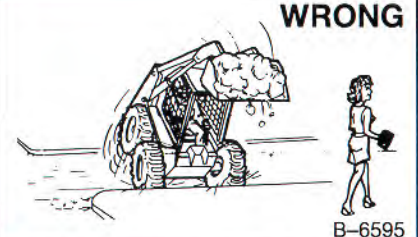
WRONG



B-6585

⚠ Never carry riders.
⚠ Keep bystanders away from work area.

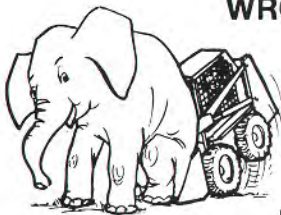
WRONG



B-6595

⚠ Always carry bucket or attachments as low as possible.
⚠ Do not travel or turn with lift arms up.
⚠ Load, unload and turn on flat level ground.

WRONG



B-6587

⚠ Never exceed rated operating capacity.

WRONG



B-6594

⚠ Never leave loader with engine running or with lift arms up.
⚠ To park, engage parking brake and put attachment flat on the ground.

WRONG



B-6591

⚠ Never modify equipment.
⚠ Use only attachments approved by Melroe Company for this model loader.

SAFETY EQUIPMENT

The Bobcat loader must be equipped with safety items necessary for each job. Ask your dealer about attachments and accessories.

1. SEAT BELT: Check belt fasteners and check for damaged webbing or buckle.
2. SEAT BAR: When up, it must lock the pedals.
3. OPERATOR CAB (ROPS and FOPS): It must be on the loader with all fasteners tight.
4. HANDBOOK: Must be in the cab.
5. SAFETY SIGNS (DECALS): Replace if damaged.
6. SAFETY TREADS: Replace if damaged.
7. GRAB HANDLES: Replace if damaged.
8. LIFT ARM SUPPORT DEVICE
9. PARKING BRAKE



bobcat[®]

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FOREWORD

SAFETY

**OPERATING
INSTRUCTIONS**

**PREVENTIVE
MAINTENANCE**

**SYSTEMS
ANALYSIS**

**MACHINE SIGN
TRANSLATIONS**

SPECIFICATIONS

**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

REFERENCE INFORMATION

Write the correct information for Your Bobcat loader in the spaces below. Always use these numbers when referring to your Bobcat loader.

Loader Serial Number _____
Engine Serial Number _____

NOTES: _____

YOUR LOADER DEALER: _____
ADDRESS: _____
PHONE: _____



FOREWORD

FOREWORD

This Operation & Maintenance Manual was written to give the owner/operator instructions on the safe operation and maintenance of the Bobcat loader. **READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR LOADER.** If you have any questions, see your Bobcat loader dealer.

SERIAL NUMBER LOCATIONS	v ..
DELIVERY REPORT	v ..
BOBCAT LOADER IDENTIFICATION	vi, vii
OPTIONS AND ACCESSORIES	viii .



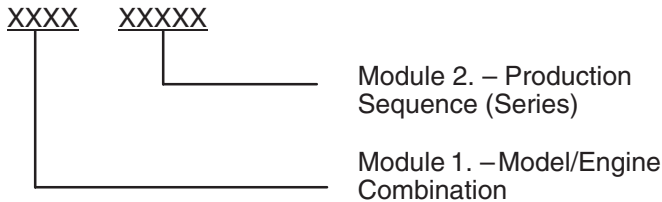
SERIAL NUMBER LOCATIONS

Always use the serial number of the loader when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

LOADER SERIAL NUMBER

The loader serial number plate is located on the inside of the left upright, above the grill [A].

Explanation of loader Serial Number:



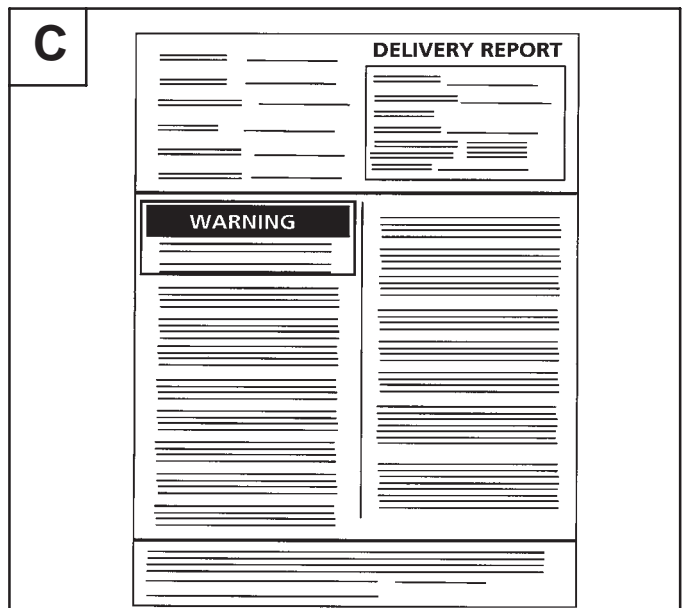
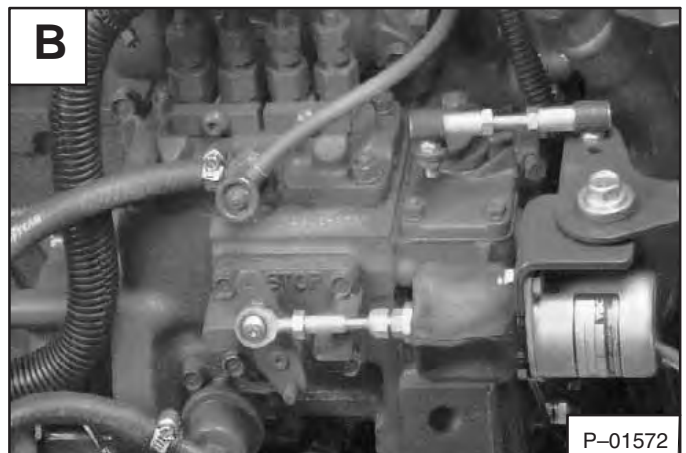
1. The four digit Model/Engine Combination Module number identifies the model number and engine combination. This number (in parenthesis beside the model number) is used in the Operation & Maintenance Manual to more easily identify the standard, optional and field accessory equipment included or available for each specific model.
2. The five digit Production Sequence Number identifies the order which the loader is produced.

ENGINE SERIAL NUMBER

The serial number is near the fuel injection pump on the engine block [B].

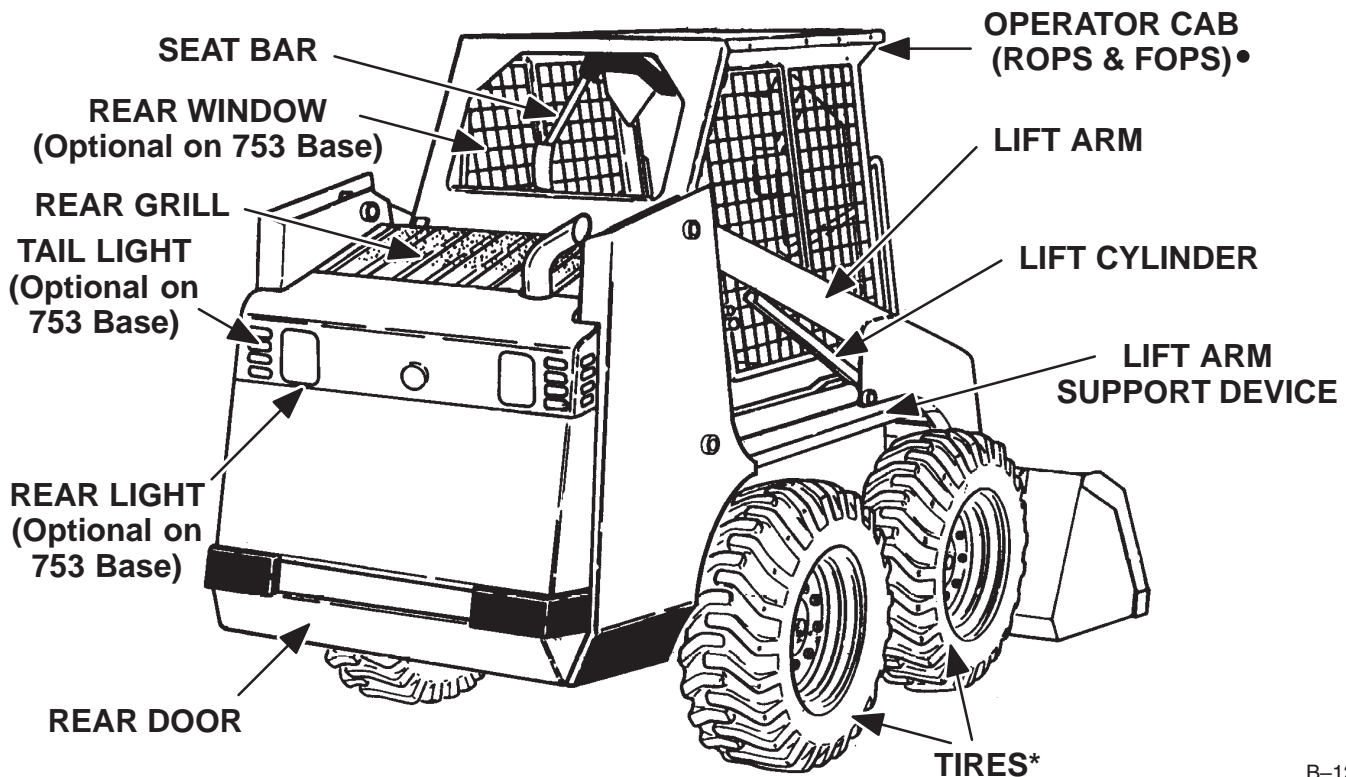
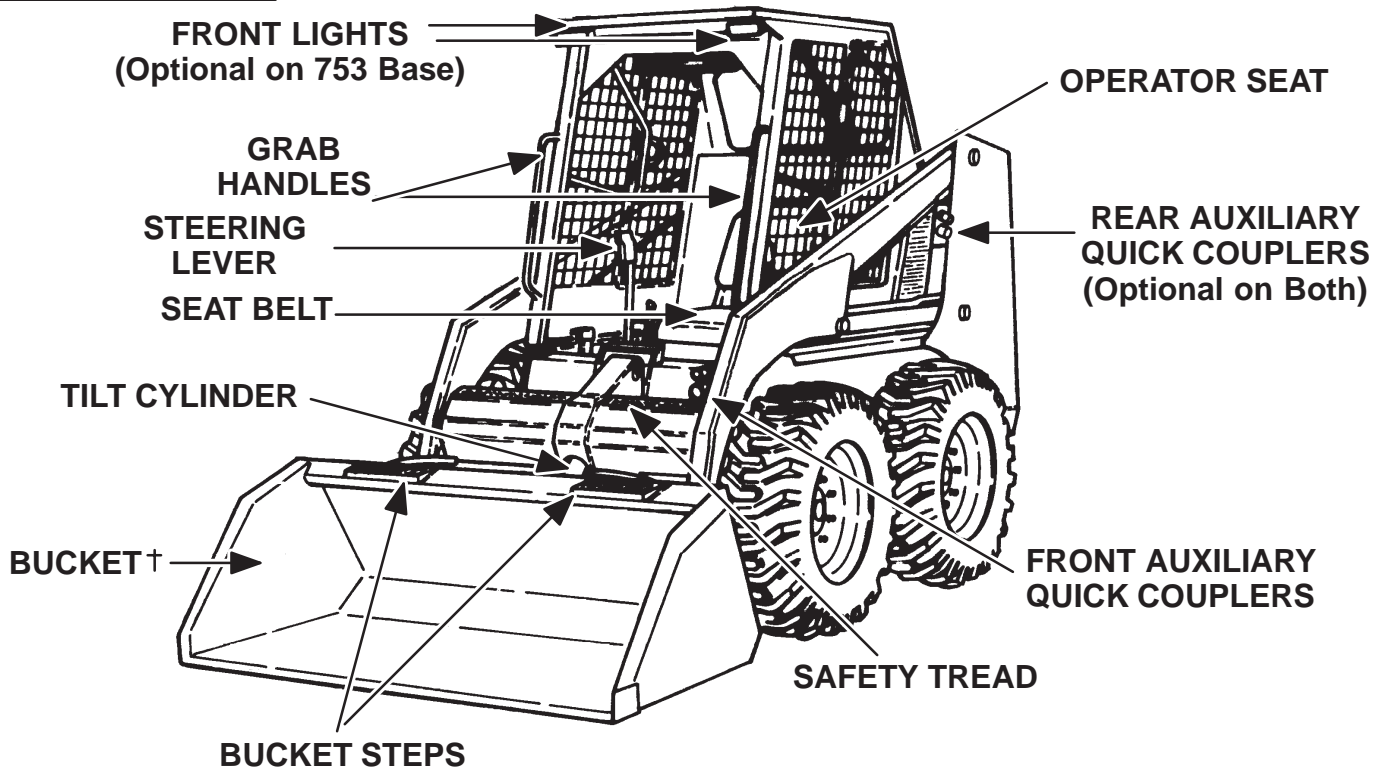
DELIVERY REPORT

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Bobcat loader is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [C].



BOBCAT LOADER IDENTIFICATION

753 Plus (5115)
753 Base (5113)

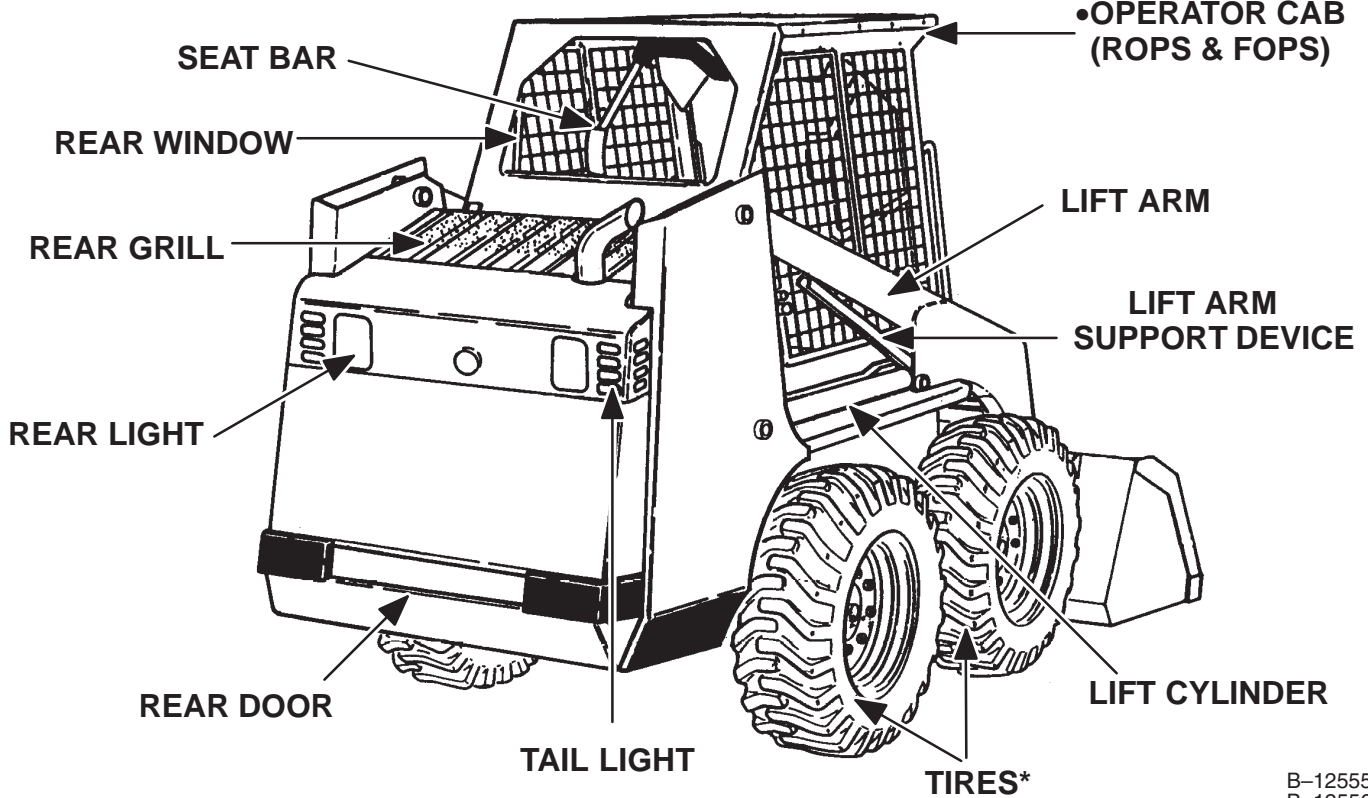
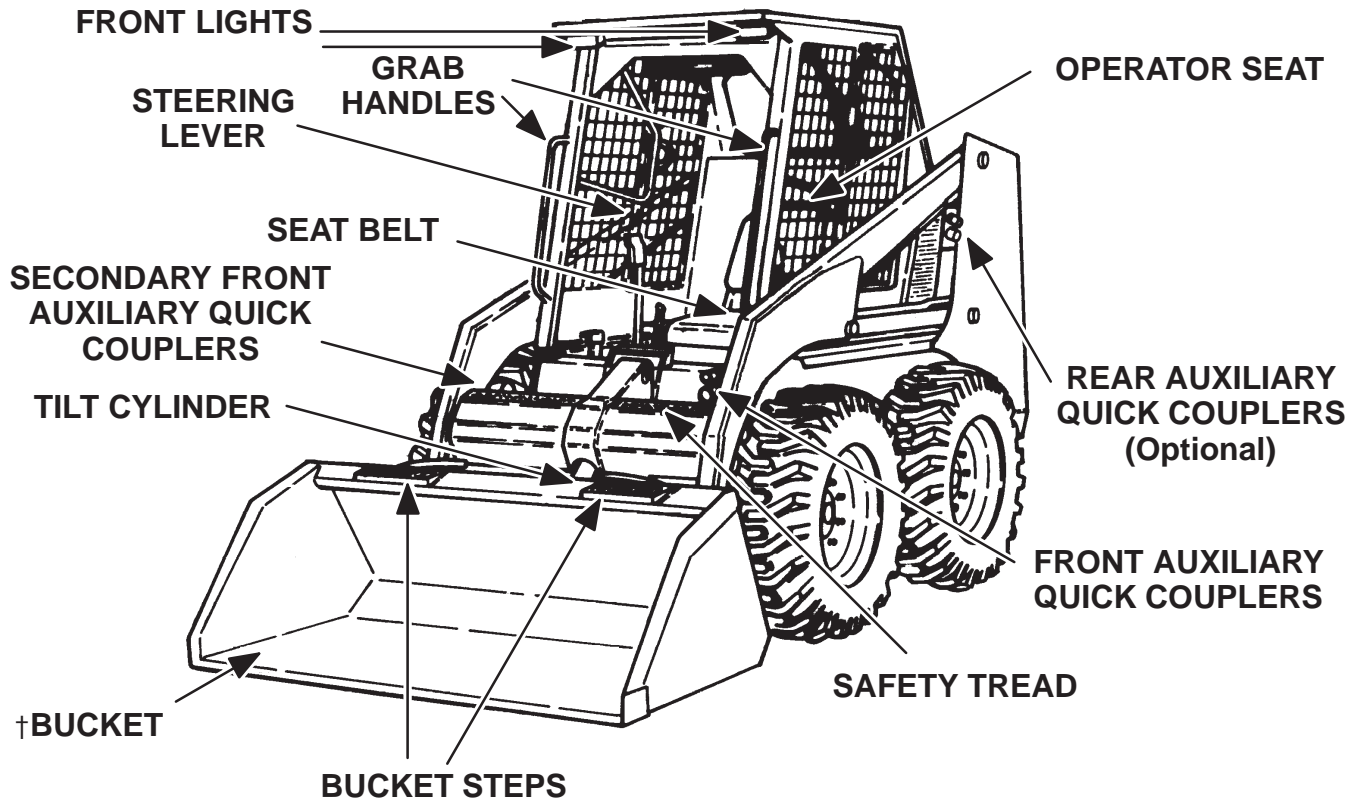


B-12555
B-12556

- * TIRES – Flotation tires are shown. The Bobcat loader is base-equipped with standard tires.
- † BUCKET – Several different buckets and other attachments are available for the Bobcat loader.
- ROPS, FOPS – Roll-Over Protective Structure, Falling Object Protective Structure, per SAE J1040 and SAE J1043. The Bobcat loader is base-equipped with a standard operator cab as shown.

BOBCAT LOADER IDENTIFICATION (Cont'd)

753H Plus (5110)



B-12555
 B-12556

- * TIRES – Flotation tires are shown. The Bobcat loader is base-equipped with standard tires.
- † BUCKET – Several different buckets and other attachments are available for the Bobcat loader.
- ROPS, FOPS – Roll-Over Protective Structure, Falling Object Protective Structure, per SAE J1040 and SAE J1043. The Bobcat loader is base-equipped with a standard operator cab as shown.

OPTIONS AND ACCESSORIES

All 753 Bobcat loaders are standard equipment with the following items:

Bob-Tach	Operator Cab
Spark Arrestor Muffler	Seat Belt
Lift Arm Support Device	Seat Bar
	Parking Brake

Below is a listing of the equipment which varies by model.

	† 753 Base (5113)	† 753 Plus (5115)
		† 753H Plus (5110)

Tires

7:00–15, 6 PR	Std.	Std.
10:00–16.5, 6 PR Flotation	Opt.	Opt.
10:00–16.5, 8 PR Flotation	Opt.	Opt.
8:00–16 Solid	Opt.	Opt.

Operator Cab

Black Cushion Seat	Std.	Std.
Suspension Seat	Opt.	Opt.
85 dBa Sound Package	NA	Opt.
90 dBa Sound Package	Opt.	Std.
Lights, Front & Rear	Opt.	Std.
Top Window	FA	FA
Rear Window	FA	Std.
Side Windows (Rear Portion Only)	NA	*NA
Horn	FA	FA

Hydraulics

Front Auxiliary Hydraulics	Std.	Std.
Hyd. Bucket Positioning	Opt. & FA	FA & Opt.
Rear Auxiliary Hydraulics	FA & Opt.	FA & Opt.
Secondary Front Auxiliary Hydraulics	NA	Std.

Instrumentation

Gauges	Std.	NA
Bobcat Operating Sensing System (BOSS®) ..	NA	Std.

Std. = Standard Equipment
 Opt. = Factory Installed Option
 FA = Field Accessory
 NA = Not Available

* Not available individually. Included with 85 dBa sound package

† Refer to Loader Serial Number on Page v for explanation of four digit prefix number used in identifying loader models.

***Specifications subject to
 change without notice***

SAFETY

SAFETY INSTRUCTIONS ix .
FIRE PREVENTIONxiii .
MACHINE SIGNSxiv,xv

SAFETY



SAFETY INSTRUCTIONS

SAFETY IS THE OPERATOR'S RESPONSIBILITY

The Skid Steer Loader is a highly maneuverable and compact machine. In operation, it is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications. The loader has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill or cause illness so the loader must be used with adequate ventilation. The loader has a spark arrestor muffler which is required for operation in certain areas.

The dealer explains the capabilities and restrictions of the loader and attachments for each application. The dealer demonstrates the safe operation of the loader according to Melroe's instructional materials; which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for rated capacity and secure fastening to the loader. The user must check with the dealer or Melroe Company literature, to determine safe loads of materials of specified densities for his loader-attachment combination.

The following publications provide information on the safe use and maintenance of the loader and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation and Maintenance Manual delivered with the loader gives operating information as well as routine maintenance and service procedures. It is a part of the loader and can be stored in a container (later models) provided inside the cab. Replacement Operation and Maintenance Manuals can be ordered from your Bobcat loader dealer.
- The loader has machine signs (decals) which instruct on the safe operation and care. The signs and their locations are shown in the Operation and Maintenance Manual. Replacement signs are available from your Bobcat loader dealer.
- The loader has a plastic Operator's Handbook fastened to the operator cab. Its brief instructions are convenient to the operator. The Handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The EMI Safety Manual (available in Spanish) delivered with the loader gives general safety information.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Skid-Steer Loader Operator Training Course is available through your local Bobcat dealer. This course provides information for safe and efficient operation of the Bobcat loader. The course is available in English and Spanish versions.
- The Bobcat Skid-Steer Loader Safety Video is available from your Bobcat Dealer.

The dealer and owner/operator review the recommended uses of the loader and attachments when the loader is delivered. If the owner/operator will be using the loader for a different application(s) he must ask the dealer for recommendations on the new use.



Call Before You Dig 1-888-258-0808

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.).

BEFORE OPERATING THE BOBCAT LOADER



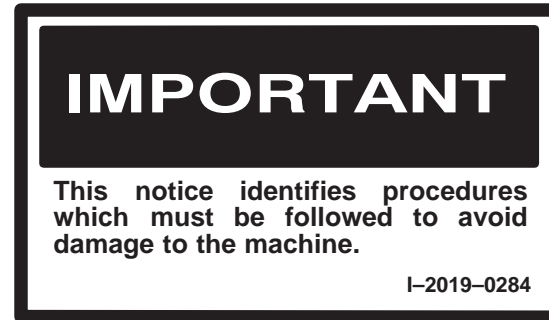
Safety Alert Symbol: This symbol with a warning statement, means: “Warning, be alert! Your safety is involved!” Carefully read the message that follows.



B-10731

The Bobcat loader must be in good operating condition before use.

Check all of the items on the Service Schedule under the 8–10 hour column or as shown in this Manual.



SAFE OPERATION NEEDS A QUALIFIED OPERATOR*

A QUALIFIED OPERATOR MUST DO THE FOLLOWING:

- UNDERSTAND THE WRITTEN INSTRUCTIONS, RULES AND REGULATIONS
 - The written instructions from Melroe Company include the Delivery Report, Operation & Maintenance Manual, Operator’s Handbook, EMI Safety Manual and machine signs (decals).
 - Check the rules and regulations at your location. The rules may include an employer’s work safety requirements. Regulations may apply to local driving requirements or use of Slow Moving Vehicle emblem. Regulations may identify a hazard such as a utility line.
- HAVE TRAINING WITH ACTUAL OPERATION
 - Operator training must consist of a demonstration and verbal instruction. This training is given by your dealer before the loader is delivered.
 - The new operator must start in an area without bystanders and use all the controls until he can operate the loader safely under all conditions of the work area. Always fasten seat belt and lower seat bar before operating.
 - The Skid Steer Loader Operator Training Course is available in English and Spanish. The course provides information for safe and efficient operation. See your dealer for availability.
- KNOW THE WORK CONDITIONS
 - For each material to be handled, the operator must know how to avoid exceeding the rated operating capacity of the loader. For example, in handling certain loose material with a given bucket, he must know whether he can safely take a full load, or only part of a bucket load.
 - The operator must know any prohibited uses or work areas, for example, he needs to know about excessive slopes.
 - Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the *SAFETY INSTRUCTIONS* Section of this manual.
 - Wear tight fitting clothing. Always wear safety glasses when maintaining or servicing loader. Safety glasses, hearing protection or loader special applications kit are required for some work. See your dealer about Melroe Safety equipment.

* For an operator be qualified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

SI02-0598

FIRE PREVENTION

The loader has several components that are at high temperature under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it will increase the fire hazard. The loader must be cleaned as often as necessary to avoid this accumulation. Flammable debris in the engine compartment is a fire hazard when the loader is parked with a hot engine.

The spark arrestor muffler is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

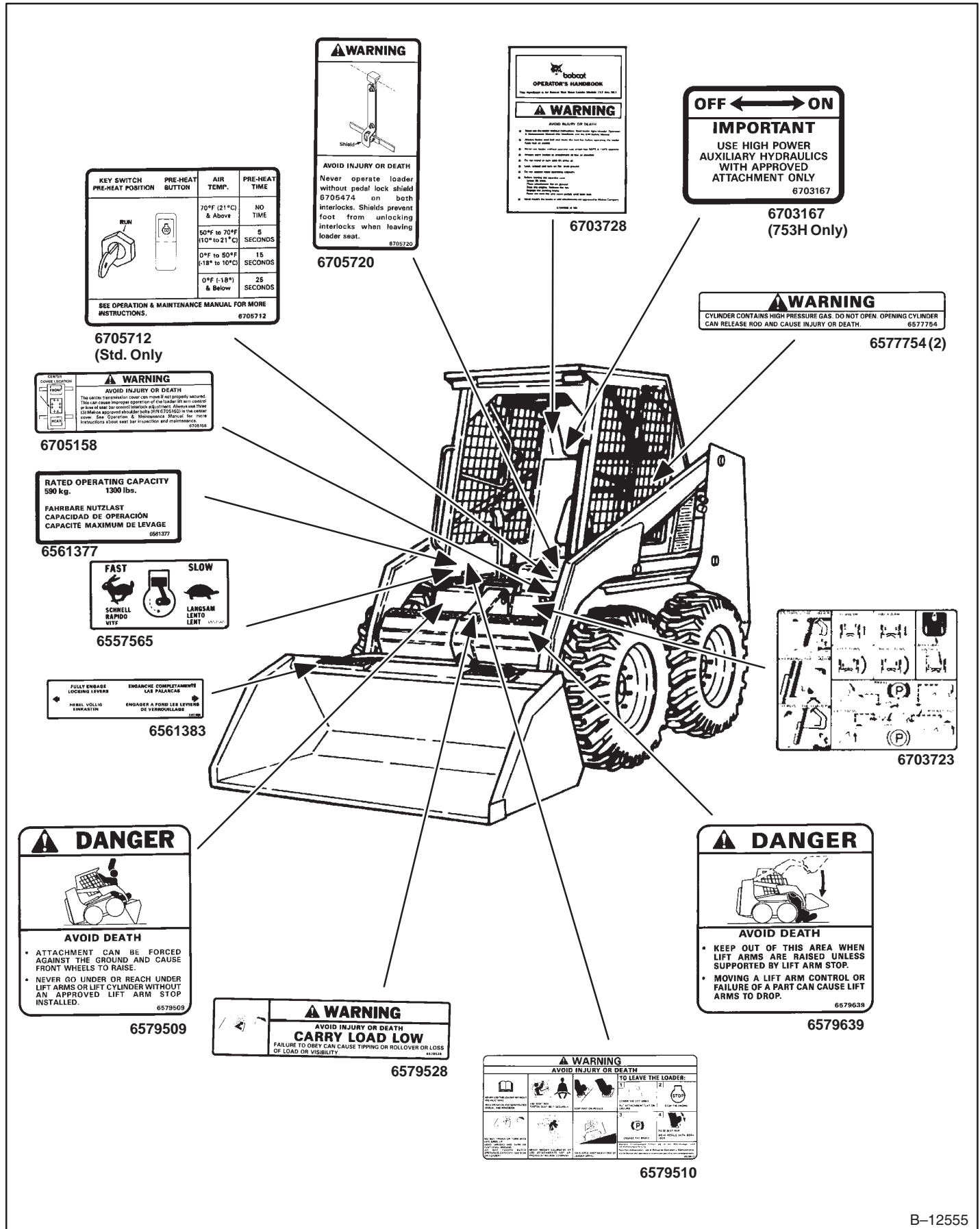
- Do not use the Bobcat loader where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.
- The engine compartment and engine cooling system must be inspected everyday and cleaned if necessary to prevent fire hazard and overheating.
- Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part.
- Check fuel and hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Tighten or replace any parts that show leakage. Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.
- Do not use ether or starting fluids on this engine. It has glow plugs. These starting aids can cause explosion and injure you or bystanders.
- Always clean the loader and disconnect the battery before doing any welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the loader when welding. Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.
- Stop the engine and let it cool before adding fuel. No smoking!
- Use the procedure in the Operation & Maintenance Manual for connecting the battery.
- Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler.
- Know where fire extinguishers and first aid kits are located and how to use them.

A fire extinguisher is available from your Bobcat dealer. The fire extinguisher can be installed in the location shown [A].



MACHINE SIGNS (DECALS)

Follow the instructions on all the Machine Signs (Decals) that are on the loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat dealer.



B-12555

MACHINE SIGNS (DECALS) (Cont'd)

IMPORTANT
 The Bobcat loader is equipped with a 12V DC electrical system. It is important to be instructed on the proper use of the electrical system to avoid damage to the machine or injury to the operator. The operator should read the manual before operating the loader. The manual is located in the operator's compartment. The manual is also available in Spanish. For more information, contact your local Bobcat dealer. The manual is also available in other languages. For more information, contact your local Bobcat dealer. The manual is also available in other languages. For more information, contact your local Bobcat dealer.

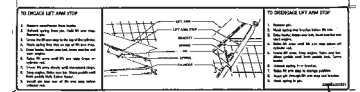
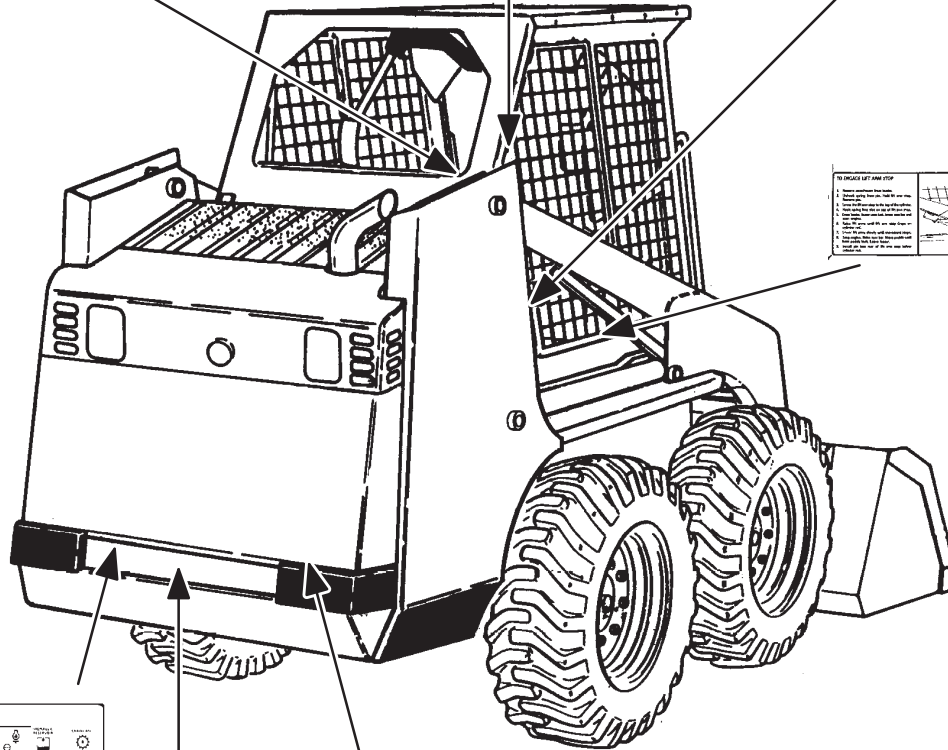
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BOBCAT
 HYDROSTATIC
 FLUID

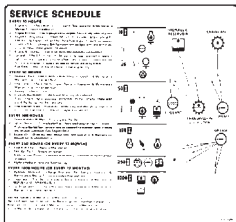
6565990

← PUSH TO RELEASE STOP

6578368



6701921



*6578218

WARNING
 AVOID INJURY OR DEATH

- Keep them closed except for service.
- Keep engine clear of flammable material.
- Keep body, lower objects, and feet away from electrical contacts, moving parts, hot parts, and exhaust.
- Do not use loader in use with explosion-detonation gases or with flammable material near exhaust.
- Do not exhaust gases from lift. Always ventilate.
- Never use ether to start engine. Fuel on diesel engine with glow plugs. Use only starting aids as approved by engine manufacturer.
- Loading Bobcat engine pressure can enter skin and cause serious injury. Interlock must be attended in operation. Wear goggles. Use caution to back for load.
- Battery acid can cause severe burns, metal spillover, or oil contact may cause skin irritation. Flush well with water. Rinse contact with eyes. Wash and get medical attention.
- Battery makes flammable and explosive gas. Keep away from sparks, flames, and heated tobacco areas.
- For jump start, connect negative cable to the loader engine last (never at the battery). After jump start, remove negative connection at the engine first.

*6579511

bobcat Filters			
MODEL	752	753	HOURS (See 2)
PRIMARY AIR FILTER	8446094	8584827	
SECONDARY AIR FILTER		8188392	
FUEL FILTER	8513601	8374896	
HYDRAULIC OIL FILTER	812106	8647773	
HYDRAULIC OIL FILTER	8630971	8630971	

SEE SERVICE SCHEDULE FOR FILTER LOCATIONS OR CONTACT AN AUTHORIZED BOBCAT DEALER

*6700237

* Located inside the engine compartment.

B-12556



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