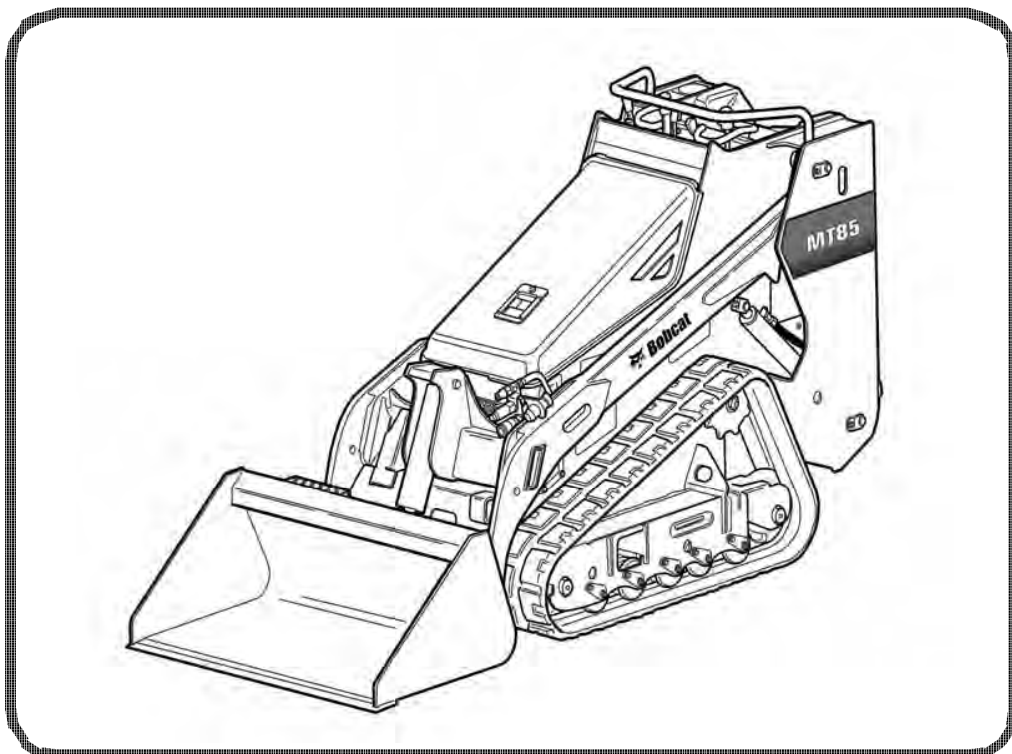




Service Manual

MT85 Mini Track Loader

MT85 - S/N B3TR11001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)



MAINTENANCE SAFETY



WARNING

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-2003-0807

CORRECT



P-90216

- ⚠ Never service the Bobcat Mini Track Loader without instructions.



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

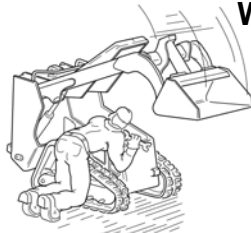
WRONG



B-23041

- ⚠ Have good ventilation when welding or grinding painted 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.

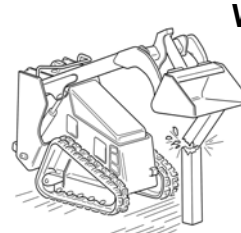
WRONG



NA9783

- ⚠ 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 unless supported by an approved lift arm support device. Replace it if damaged.

WRONG



NA9784

- ⚠ 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.

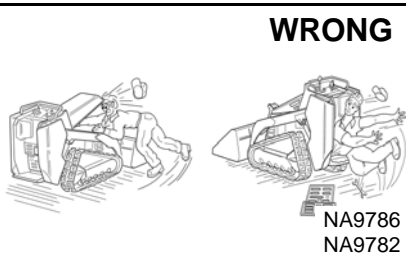
WRONG



NA9785

- ⚠ Stop, cool and clean engine of flammable materials 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.

WRONG



NA9786
NA9782

- ⚠ Keep body, jewelry and clothing away 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.

WRONG



B-6589

- ⚠ 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 and get immediate medical 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.

MSW45-1015

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CONTENTS

SAFETY AND MAINTENANCE	10-01
HYDRAULIC SYSTEM	20-01
HYDROSTATIC SYSTEM	30-01
DRIVE SYSTEM	40-01
MAINFRAME	50-01
ELECTRICAL SYSTEM AND ANALYSIS	60-01
ENGINE SERVICE	70-01
SPECIFICATIONS	SPEC-01
ALPHABETICAL INDEX	INDEX-01

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FOREWORD

FOREWORD	1-7
SAFETY INSTRUCTIONS	1-9
FIRE PREVENTION	1-11
Maintenance	1-11
Operation	1-11
Electrical	1-11
Hydraulic System	1-11
Fueling	1-11
Starting	1-11
Spark Arrester Exhaust System	1-11
Welding And Grinding	1-12
Fire Extinguishers	1-12
SERIAL NUMBER LOCATIONS	1-13
Mini Track Loader Serial Number	1-13
Engine Serial Number	1-13
DELIVERY REPORT	1-13
MINI TRACK LOADER IDENTIFICATION	1-14

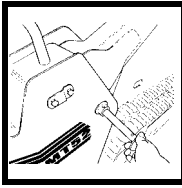
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FOREWORD

This manual is for the Bobcat mini track loader mechanic. It provides necessary servicing and adjustment procedures for a Bobcat mini track loader and its component parts and systems. Refer to the Operation & Maintenance manual for operating instructions, starting procedure, daily checks, etc.

A general inspection of the following items must be made after the loader has had service or repair:

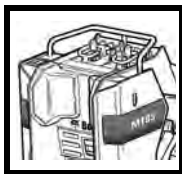
1. Check lift arm support device, replace if damaged. (Stored Position)



2. Machine signs (decals) must be legible and in the correct location.



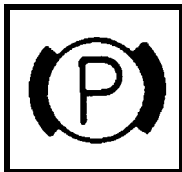
3. Controls must return to neutral.



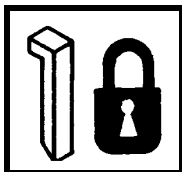
4. Check for correct function of the optional work lights.



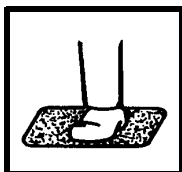
5. The parking brake must function correctly.



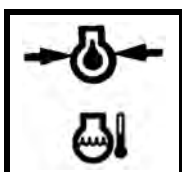
6. Bob-Tach wedges and linkages must function correctly and be in good condition.



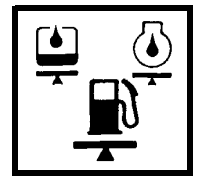
7. Safety treads must be in good condition on the operator platform.



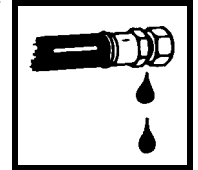
8. Check for correct function of indicator lamps.



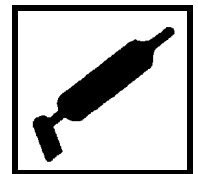
9. Check hydraulic fluid level, engine oil level and fuel supply.



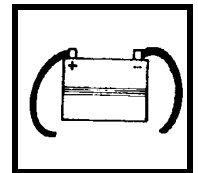
10. Inspect for fuel, oil or hydraulic fluid leaks.



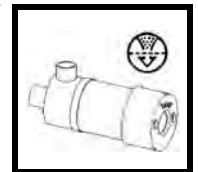
11. Lubricate the mini loader.



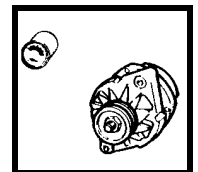
12. Check the condition of the battery and cables.



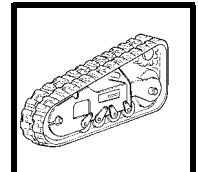
13. Inspect the air cleaner for damage or leaks. Check the condition of the element.



14. Check the electrical charging system.



15. Check tracks for wear and tension. Use only approved tracks.



16. Inspect for loose or broken parts or connections.



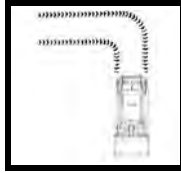
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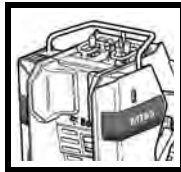
17. Check for any field modification not completed.



18. Operate the machine and check all functions.



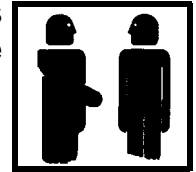
19. Check for correct function of lift/tilt lockouts and neutral start interlocks.



20. Check function or condition of all equipped options and accessories (examples: shutdown kit, attachment control kit, light kit, etc.).



21. Recommend to the owner that all necessary corrections be made before the machine is returned to service.



**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.

FIRE PREVENTION



Maintenance

The machine and some attachments have components that are at high temperatures 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 can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. 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.

Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Ultra Low Sulfur Diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher Sulfur content. Avoid death or serious injury from fire or explosion. Consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Spark Arrester Exhaust System

The spark arrester exhaust system 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.

Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrester muffler (if equipped).

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FIRE PREVENTION (CONT'D)

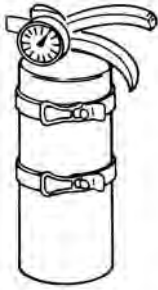
Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine 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.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers



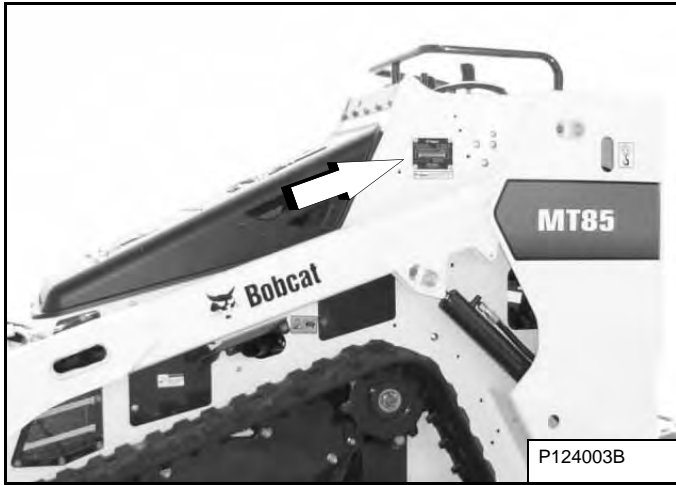
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

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.

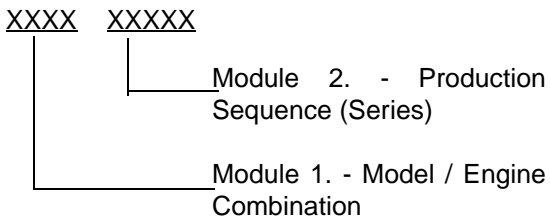
Mini Track Loader Serial Number

Figure 1



The mini loader serial number plate is located on the outside of the frame [Figure 1].

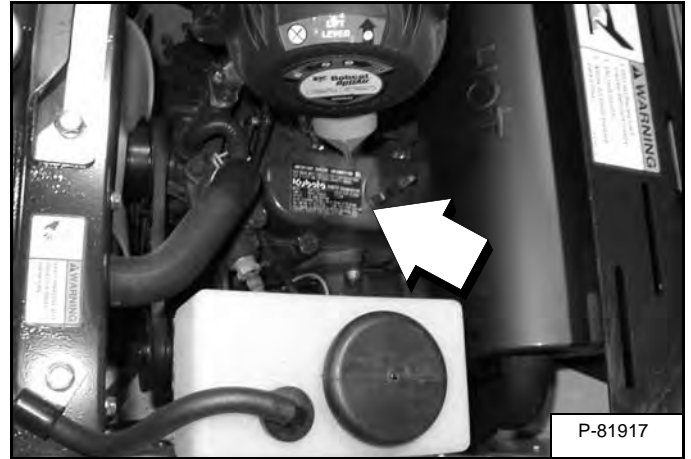
Explanation of Serial Number:



1. The four digit Model / Engine Combination Module number identifies the model number and engine combination.
2. The five digit Production Sequence Number identifies the order which the mini loader is produced.

Engine Serial Number

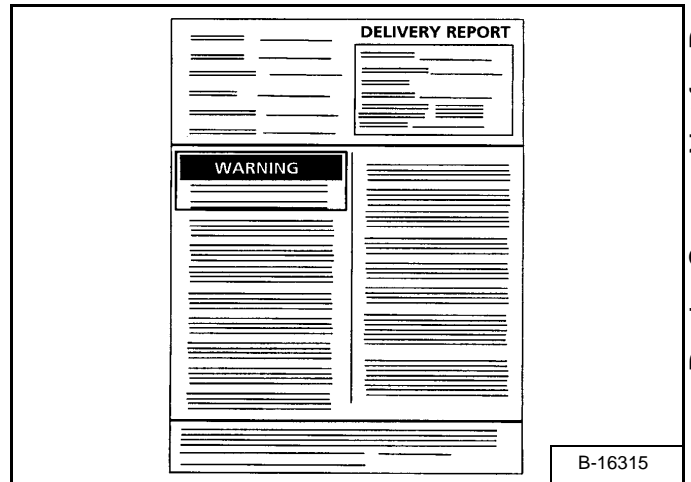
Figure 2



The engine serial number is located on the valve cover of the engine [Figure 2].

DELIVERY REPORT

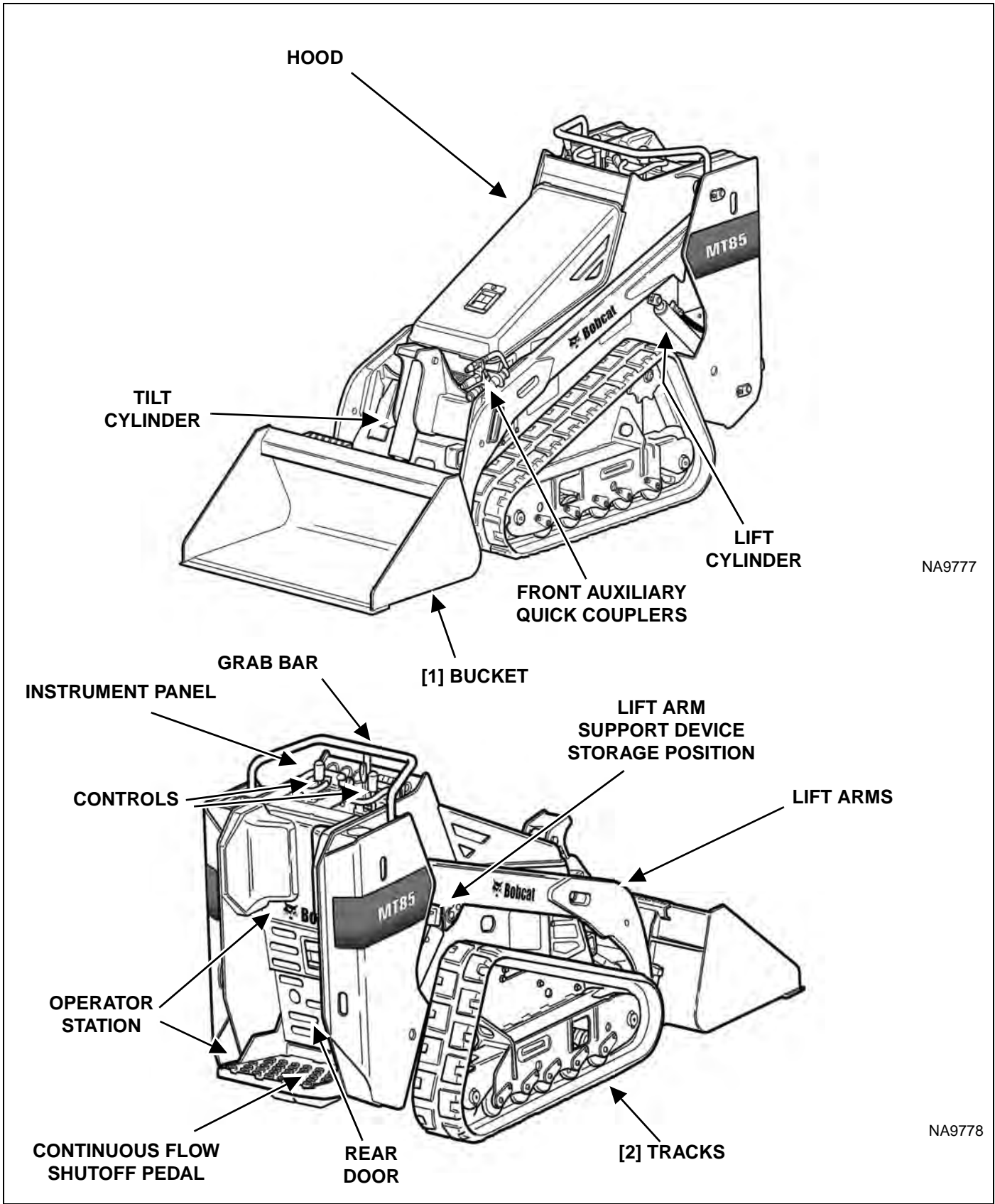
Figure 3



The delivery report [Figure 3] contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat mini loader is delivered.

The delivery report must be reviewed and signed by the owner or operator and the dealer.

MINI TRACK LOADER IDENTIFICATION



- [1] BUCKETS - Several different buckets and other attachments are available for the Bobcat Mini Track Loader.
- [2] TRACKS - Optional track widths are available.

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SAFETY AND MAINTENANCE

LIFTING AND BLOCKING THE MINI LOADER	10-10-1
Procedure	10-10-1
Four Point Lift	10-10-2
LIFT ARM SUPPORT DEVICE	10-20-1
Installing	10-20-1
Removing	10-20-1
TRANSPORTING THE MINI LOADER ON A TRAILER	10-30-1
Loading And Unloading	10-30-1
Fastening	10-30-1
TOWING THE MINI LOADER	10-40-1
Procedure	10-40-1
SERVICE SCHEDULE	10-50-1
Maintenance Intervals	10-50-1
AIR CLEANER SERVICE	10-60-1
Replacing Filter Elements	10-60-1
ENGINE COOLING SYSTEM	10-70-1
Cleaning	10-70-1
Checking Level	10-70-1
Removing And Replacing Coolant	10-70-2
FUEL SYSTEM	10-80-1
Fuel Specifications	10-80-1
Biodiesel Blend Fuel	10-80-1
Filling The Fuel Tank	10-80-2
Fuel Filter	10-80-3
Removing Air From The Fuel System	10-80-3
ENGINE LUBRICATION SYSTEM	10-90-1
Checking And Adding Engine Oil	10-90-1
Engine Oil Chart	10-90-1
Removing And Replacing Oil And Filter	10-90-2
HYDRAULIC / HYDROSTATIC SYSTEM	10-100-1
Checking And Adding Fluid	10-100-1
Hydraulic / Hydrostatic Fluid Chart	10-100-1
Removing And Replacing Hydraulic / Hydrostatic Filter	10-100-2
Removing And Replacing Hydraulic Fluid	10-100-2
Hydraulic Reservoir Breather	10-100-2
BOB-TACH	10-110-1
Inspection And Maintenance	10-110-1

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COMMON INDUSTRY INTERFACE	10-111-1
Inspection And Maintenance	10-111-1
LUBRICATING THE MINI LOADER	10-120-1
Lubrication Locations	10-120-1
Parking Brake Lubrication	10-120-2
SPARK ARRESTER MUFFLER	10-130-1
Cleaning Procedure	10-130-1
PIVOT PINS	10-140-1
Inspection And Maintenance	10-140-1
LIFT AND TILT FUNCTION LOCKOUTS	10-150-1
Inspection	10-150-1
LIFT ARM BYPASS CONTROL	10-160-1
Operation	10-160-1
Inspection	10-160-1
NEUTRAL START INTERLOCKS	10-170-1
Inspecting Traction Drive Interlock	10-170-1
Inspecting Auxiliary Hydraulic Interlock	10-170-1
AUXILIARY HYDRAULIC CONTROL SYSTEM	10-180-1
Inspecting the Continuous Flow Shutoff Pedal	10-180-1

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