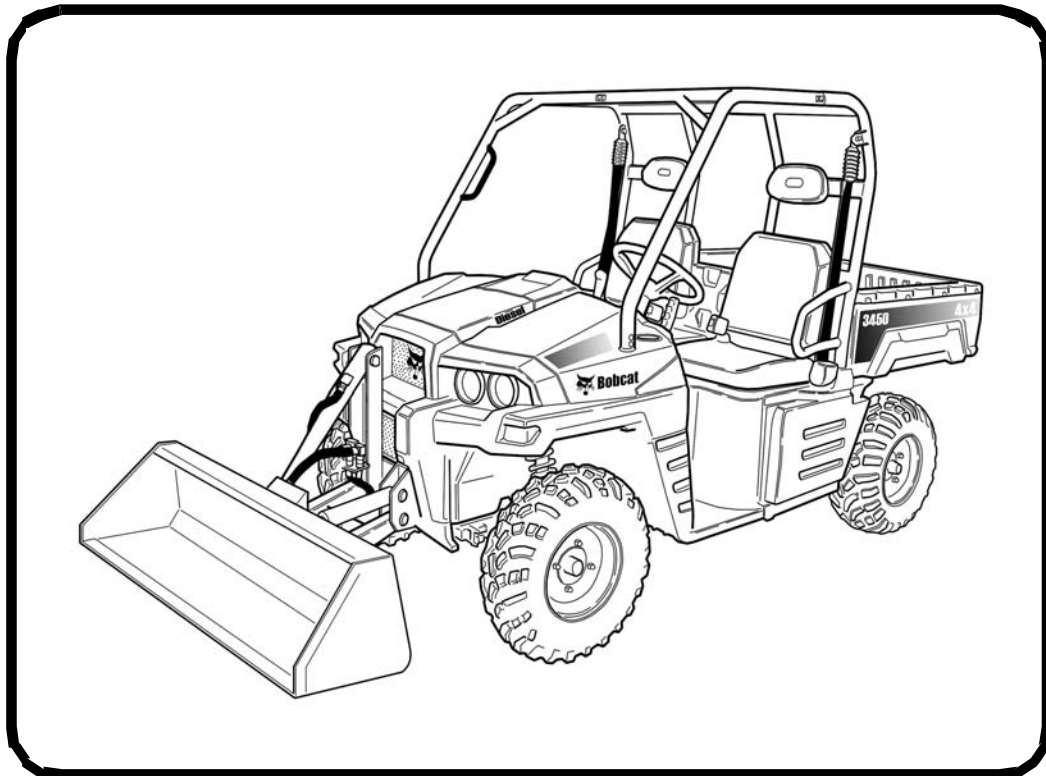




Bobcat®

Service Manual 3450 Utility Vehicle

S/N AJNY11001 & Above



Product: Bobcat 3450 Utility Vehicle Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/bobcat-3450-utility-vehicle-service-repair-workshop-manual/>

Sample of manual. Download All 514 pages at:
<https://www.arepairmanual.com/downloads/bobcat-3450-utility-vehicle-service-repair-workshop-manual/>

MAINTENANCE SAFETY



WARNING

Instructions are necessary before operating or servicing utility vehicle. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on the utility vehicle. 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.



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

CORRECT

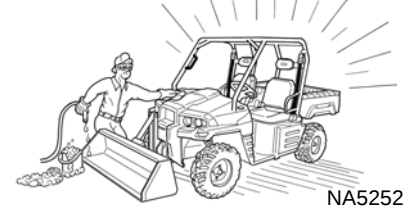


P-90216



Never service the utility vehicle without instructions.

CORRECT

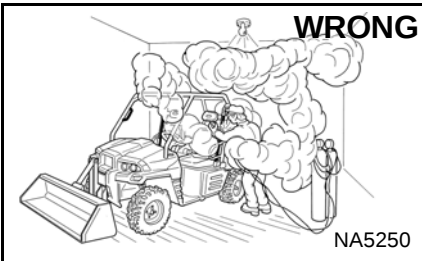


NA5252



Cleaning and maintenance are required daily.

WRONG



NA5250



Have good ventilation when welding or grinding painted parts.

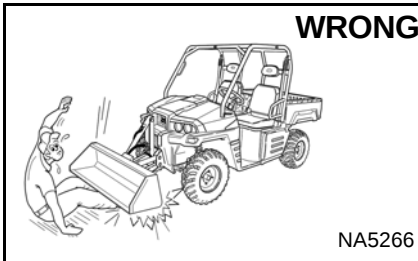


Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.



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

WRONG

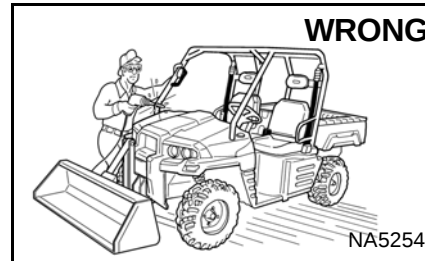


NA5266



Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause attachment arm to drop.

WRONG

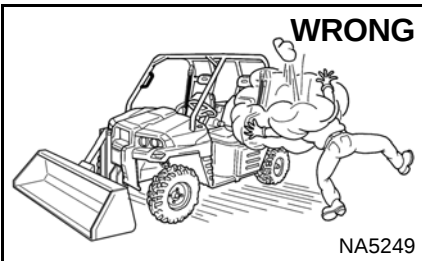


NA5254



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

WRONG



NA5249



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



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

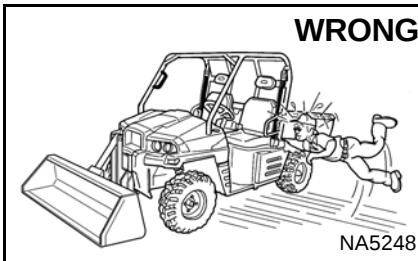


Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.



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

WRONG



NA5248



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 access doors closed except for service.

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.

MSW42-0610



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Bobcat®

FOREWORD

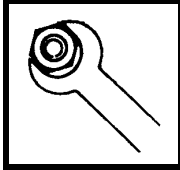
This manual is for the Utility Vehicle mechanic. It provides necessary servicing and adjustment procedures for the Utility Vehicle and its component parts and systems. Refer to the for operating instructions, starting procedure, daily checks, etc.

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

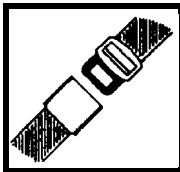
1. Check that the ROPS is in good condition and is not modified.



2. Check that ROPS mounting hardware is tightened and is Bobcat approved.



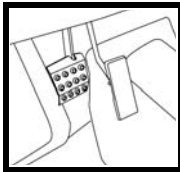
3. The operator and passenger seat belts must be correctly installed, functional and in good condition.



4. Safety signs (decals) must be legible and in the correct location.



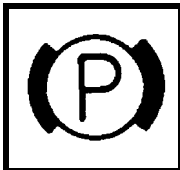
5. Foot pedals must return to neutral.



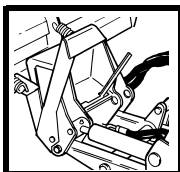
6. Check for correct function of the head lights and tail lights.



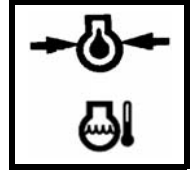
7. The parking brake must function correctly.



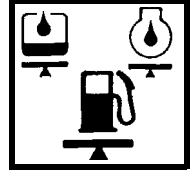
8. RapidLink™ must function correctly and be in good condition (3450 only).



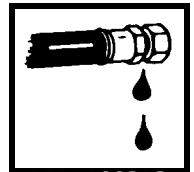
9. Check for correct function of indicator lamps.



10. Check hydraulic fluid level, engine oil level and fuel supply (3450 only).



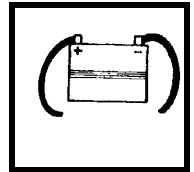
11. Inspect for fluid, oil or hydraulic fluid leaks (3450 only).



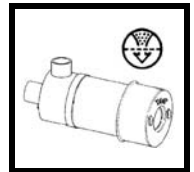
12. Lubricate the machine.



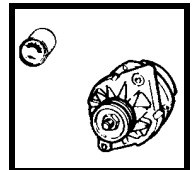
13. Check the condition of the battery and cables.



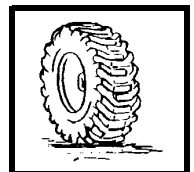
14. Inspect the air cleaner for damage or leaks. Check the condition of the element.



15. Check the electrical charging system.

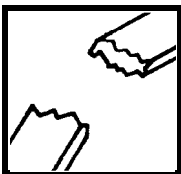


16. Check tires for wear and pressure. Use only approved tires.

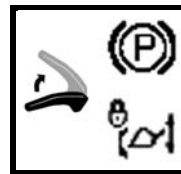


FW UV-0510 SM

17. Inspect for loose or broken parts or connections.



20. Check for correct function of the Start Interlock System before the machine is returned to the customer.



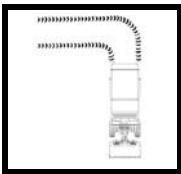
18. Check for any field modification not completed.



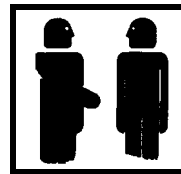
21. Check function or condition of all equipped options and accessories.



19. Operate the vehicle and check all functions.



22. 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.

SAFETY INSTRUCTIONS



Safety Alert Symbol

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



WARNING

Operator must have instructions before operating the utility vehicle. Untrained operators can cause injury or death.

W-2855-0510

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the utility vehicle.

I-2317-0510



DANGER

The signal word DANGER on the utility vehicle and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1022-0510



WARNING

The signal word WARNING on the utility vehicle and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2856-0510

The following publications provide information on the safe use and maintenance of the Bobcat utility vehicle and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the vehicle is in safe operating condition.
- The Operation & Maintenance Manual delivered with the vehicle or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the vehicle and can be stored in a container provided on the vehicle. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Safety signs (decals) instruct on the safe operation and care of your Bobcat utility vehicle or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- An Operator's Handbook fastened to the operator cab. It's 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 Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Utility Vehicle Operator Training Course is available through your local dealer or at www.training.bobcat.com or www.bobcat.com. This course is intended to provide rules and practices of correct operation of the Utility Vehicle. The course is available in English and Spanish versions.
- The Utility Vehicle Safety Video is available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com.

SAFETY INSTRUCTIONS (CONT'D)

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



Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust. Do not exceed Permissible Exposure Limits (PEL) to silica dust as determined by OSHA or other job site Rules and Regulations. Use a respirator, water spray or other means to control dust. Silica dust can cause lung disease and is known to the state of California to cause cancer.

Call Before You Dig

Dial 811 (USA Only)

1-888-258-0808 (USA & Canada)

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

FIRE PREVENTION



Maintenance

The utility vehicle and some attachments and accessories 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 utility vehicle where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases. Do not park this vehicle near open flames or pilot lights.

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.

Fueling



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

Starting

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

Spark Arrestor Exhaust System

The spark arrestor 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 arrestor exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler

Welding And Grinding

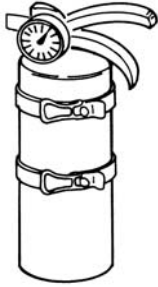
Always clean the utility vehicle attachments and accessories, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover fuel tank, rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the utility vehicle when welding.

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 PREVENTION (CONT'D)

Fire Extinguishers



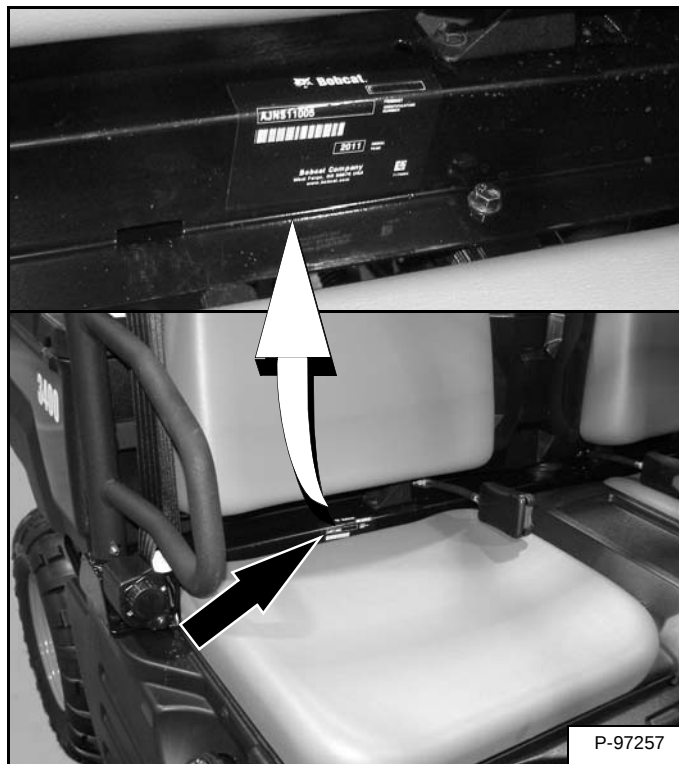
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SERIAL NUMBER LOCATIONS

Always use the serial number of the utility vehicle 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.

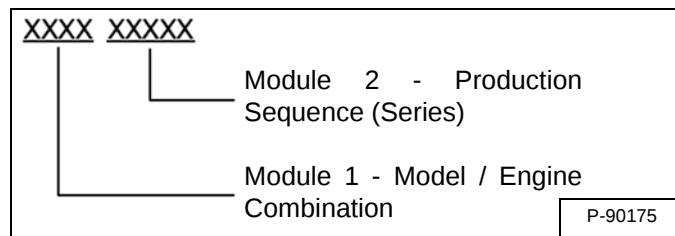
Utility Vehicle Serial Number

Figure 1



The utility vehicle serial number plate is located on the seat frame just behind the passenger(s) seat [Figure 1].

Figure 2

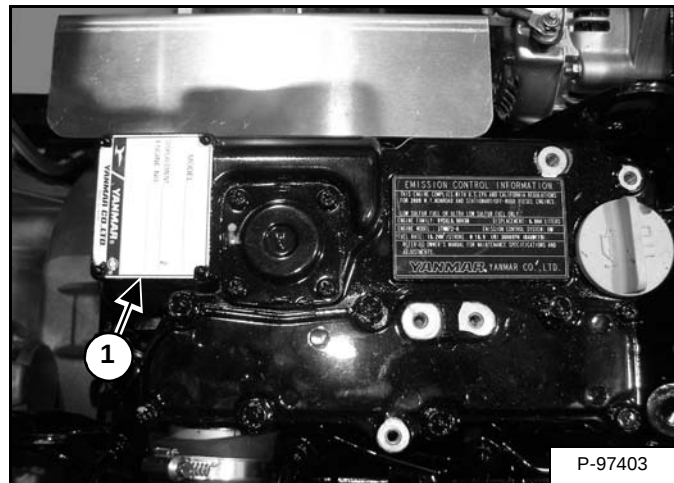


Explanation of utility vehicle Serial Number [Figure 2]:

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 utility vehicle is produced.

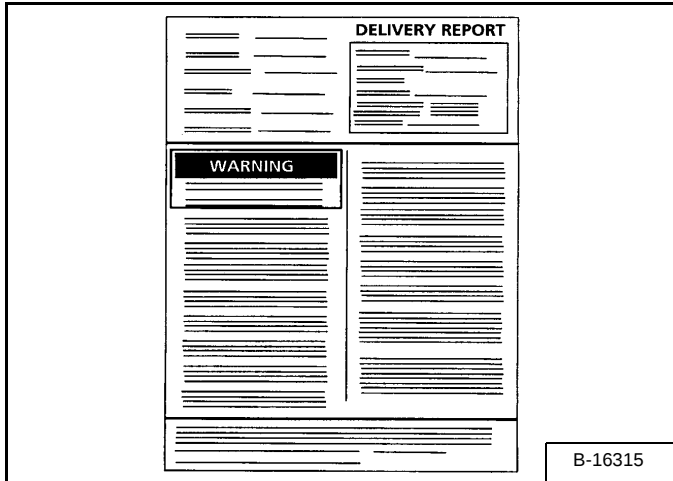
Engine Serial Number

Figure 3



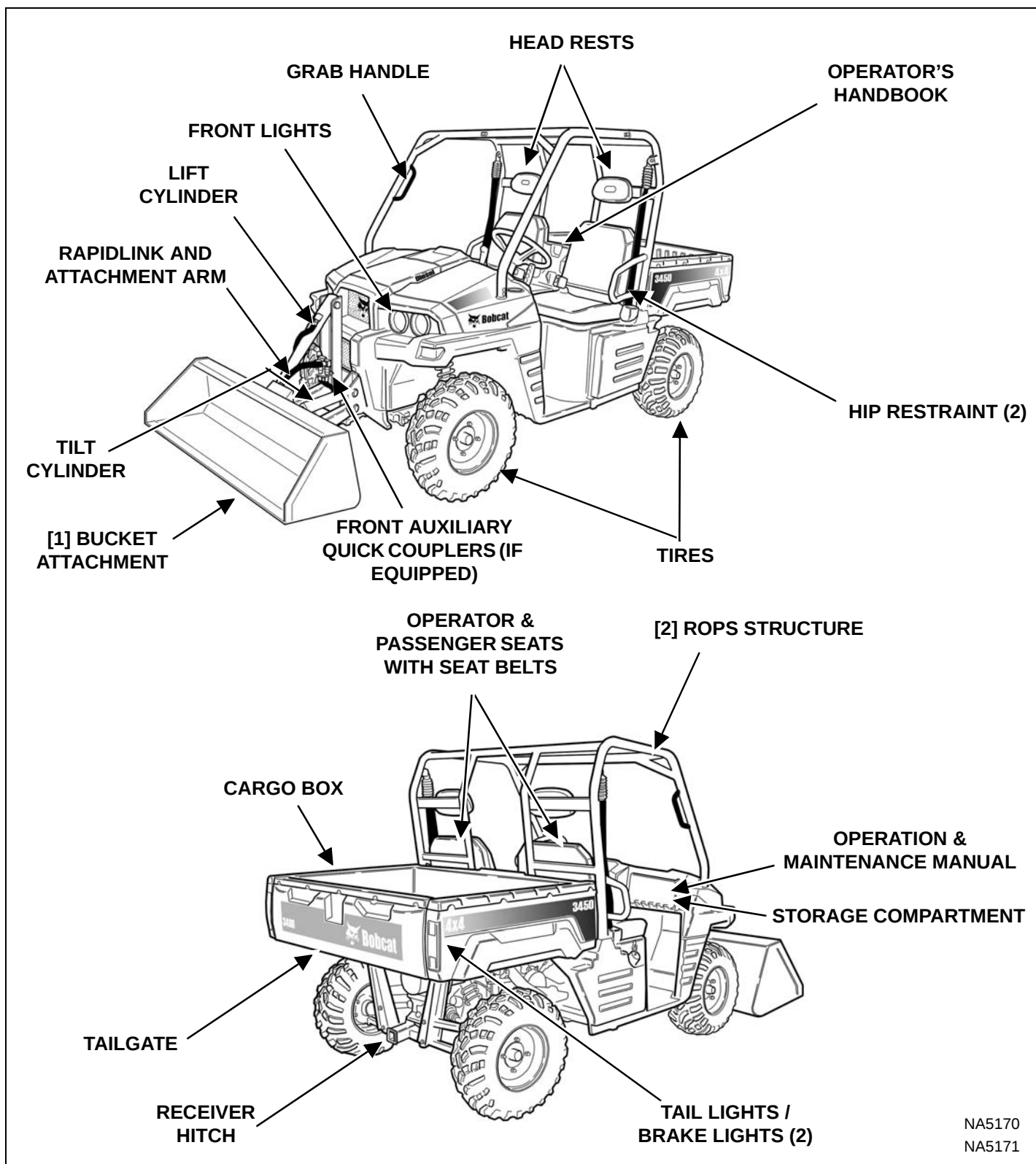
The engine serial number is located on the top of the engine (Item 1) [Figure 3].

Figure 4



The delivery report **[Figure 4]** must be completed by the dealer and signed by the owner or operator when the Bobcat utility vehicle is delivered. An explanation of the form must be given to the owner.

UTILITY VEHICLE IDENTIFICATION



NA5170
NA5171

[1] BUCKET - Buckets and other attachments are available for the 3450 utility vehicle.

[2] ROPS - Rollover Protective Structure, per OSHA 1928.53: 2006, ISO 5700: 2006 and SAE J2194: 2009.



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SAFETY & MAINTENANCE

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LIFTING AND BLOCKING THE UTILITY VEHICLE

Procedure

For service work under the utility vehicle, or to remove the wheels, always support the utility vehicle with jackstands or blocks of adequate capacity for weight of utility vehicle (See Performance on Page SPEC-10-2.)

Always park the utility vehicle on a flat level surface.

Engage the park brake. Stop the engine and put the gear selector in gear.

If removing wheel(s), loosen the wheel nuts slightly before lifting the vehicle.

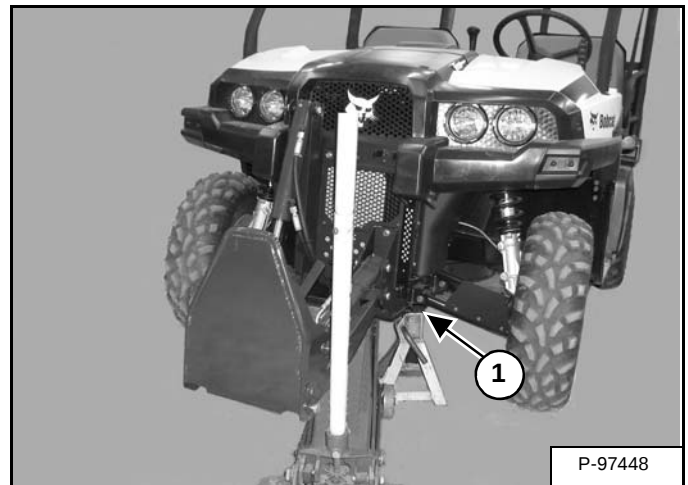
WARNING

AVOID INJURY OR DEATH

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

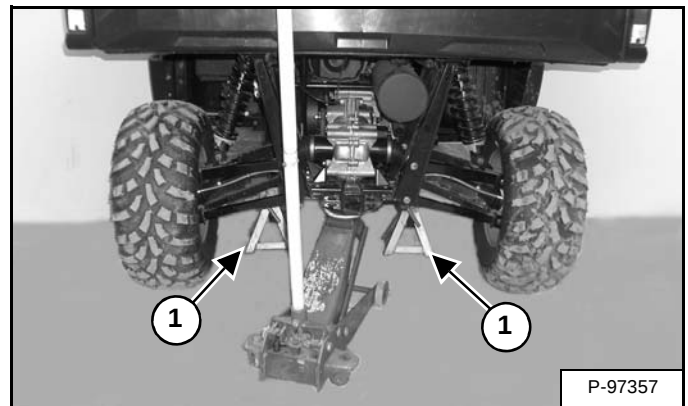
Figure 10-10-1



Place the jackstands (Item 1) [Figure 10-10-1] under the frame at the front of the utility vehicle (both sides).

NOTE: When lifting the utility vehicle, place the jack under front frame [Figure 10-10-1].

Figure 10-10-2



Place the jackstands (Item 1) [Figure 10-10-2] under the rear frame of the utility vehicle.

NOTE: When lifting the utility vehicle, place the jack under the rear frame [Figure 10-10-2].



ROLLOVER PROTECTIVE STRUCTURE (ROPS)

Description

Figure 10-20-1



The utility vehicle has a Rollover Protective Structure (ROPS) to provide protection from rollover [Figure 10-20-1]. The seat belt must be worn for rollover protection.

Check the ROPS, mounting, and hardware for damage. Never modify the ROPS. Replace the ROPS and hardware if damaged.

ROPS - Rollover Protective Structure per ISO 5700: 2006, SAE J2194: 2009, and OSHA 1928.53: 2006.

WARNING

AVOID INJURY OR DEATH

Never modify ROPS by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat Company. Changes to the ROPS can cause loss of operator protection from rollover and result in injury or death.

W-2596-0510

Figure 10-20-2



Make sure all ROPS mounting hardware [Figure 10-20-2] and [Figure 10-20-3] is tight.

The correct torque for ROPS tube to ROPS tube mounting hardware (Item 1) [Figure 10-20-2] is 34 - 38 N•m (25 - 28 ft-lb).

Figure 10-20-3



The correct torque for ROPS to frame mounting hardware (Item 1) [Figure 10-20-3] is 20 - 24 N•m (16 - 18 ft-lb).



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TRANSPORTING THE UTILITY VEHICLE ON A TRAILER

Loading And Unloading



WARNING

AVOID SERIOUS INJURY OR DEATH

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W-2058-0807

Be sure the transport and towing vehicles are of adequate size and capacity for the weight of utility vehicle. (See Performance on Page SPEC-10-2.)

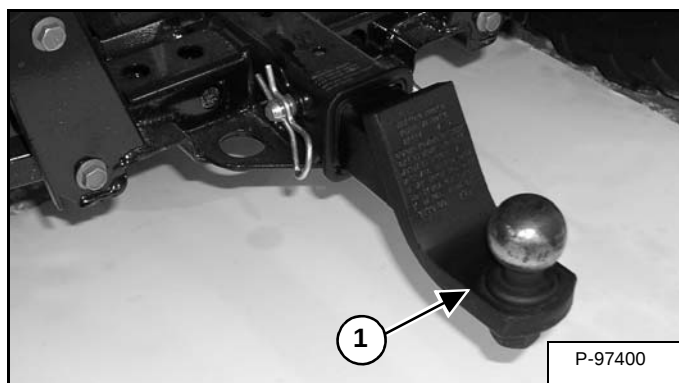
Figure 10-30-1



The Utility Vehicle can be loaded or unloaded forward or backward [Figure 10-30-1].

The rear of the trailer must be blocked or supported [Figure 10-30-1] when loading or unloading to prevent the front end of the trailer from raising up.

Figure 10-30-2



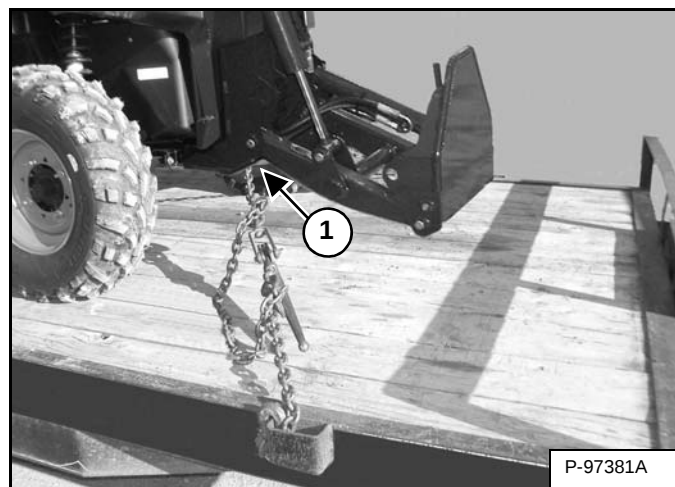
It may be necessary to remove items installed in the receiver hitch (Item 1) [Figure 10-30-2] before loading or unloading to prevent them from hitting the ground.

Fastening

Use the following procedure to fasten the utility vehicle to the transport vehicle to prevent it from moving during turns, sudden stops or when going up and down slopes.

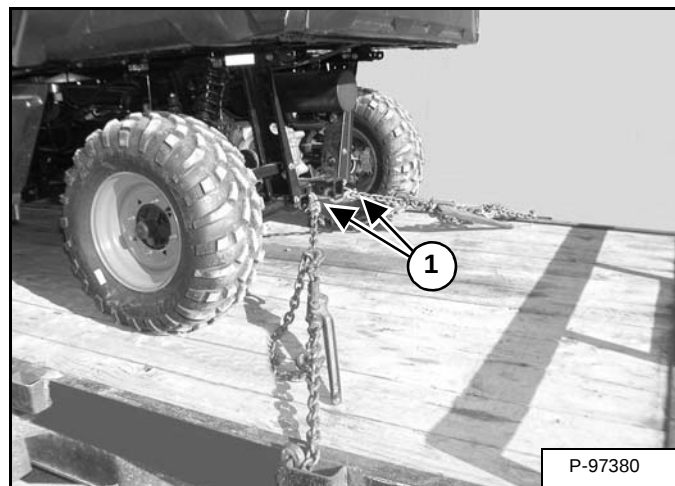
Put the gear selector in gear, engage the park brake, stop the engine and remove the key.

Figure 10-30-3



Fasten the front of utility vehicle using the attachment arm frame (Item 1) [Figure 10-30-3] (both sides).

Figure 10-30-4



Fasten the rear of utility vehicle using the receiver hitch safety chain loops (Item 1) [Figure 10-30-4] as the tie down point.

Use chain binders to tighten the chains and then safely tie the chain binder levers to prevent loosening.



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TOWING THE UTILITY VEHICLE

Procedure

The utility vehicle can be towed using the following procedure.

- Connect a strap or chain to the front tow loop for towing forward. Connect the strap or the chain to the receiver hitch to tow in the reverse direction. (Only tow for a short distance in the reverse direction.)
- Have an operator in the utility vehicle, with the seat belt fastened, for steering and applying the brakes while towing.
- Disengage the parking brake and place the gear selector in neutral.
- Tow vehicle at a slow speed.

The towing strap (chain or cable) must be rated at one and one-half times the weight of the utility vehicle. (See Performance on Page SPEC-10-2.)



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SERVICE SCHEDULE

Chart

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat product.



WARNING

Instructions are necessary before operating or servicing the utility vehicle. Read and understand the Operation & Maintenance Manual and signs (decals) on the utility vehicle. 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.

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SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	DAILY	10	25	50	100	200
Brake Fluid, Fuel, Engine Oil, Coolant and Hydraulic Fluid	Check the levels and add as needed.	[4]					
Brake System and Pedal Travel	Ensure proper operation.	[4]					
Throttle	Ensure proper operation.						
Tires	Check wear, damage and correct air pressure.	[4]					
ROPS and Seat Belt	Check the condition of the ROPS and mounting hardware. Check the condition of seat belts. Clean or replace seat belt retractors as needed.						
Front and Rear Suspension and Steering	Inspect for broken parts, loose hardware and free operation.	[4]					
Safety Signs (Decals)	Check for damaged or missing signs (decals). Replace any signs that are damaged or missing.						
Frame Fasteners	Inspect and ensure tightness.						
Head Lights, Tail Lights, Indicator Lights and Switches	Check for proper operation and apply dielectric grease when a lamp is replaced.						
Wheel Nuts	Check for loose wheel nuts and tighten to correct torque. See TIRE MAINTENANCE in this Manual.						
Fuel Filter	Remove the trapped water.						
Engine Air Filter And Pre-Filter	Inspect, clean and replace as needed.		[4] [5]				
Battery	Check cables, connections, clean and test.						
Front And Rear Differential Lubricant	Check lubricant level; add as needed.			[2] [4]			
Transmission Lubricant	Check lubricant level; add as needed.			[2] [4]			
Brake Pad And Parking Brake Pad Wear	Inspect. Replace if necessary.				[4]		
Shift Linkage	Inspect, lubricate and adjust.						
Prop Shaft Yoke And Attachment Arm	Grease prop shaft yoke fitting(s) (3 pumps maximum) and attachment arm and cylinder fittings.				[4]		
Throttle Cable And Throttle Pedal	Inspect for damage. Adjust or replace if necessary.				[5]		
Air Intake System	Inspect all air intake lines for leaks and repair if necessary.				[5]		
Park Brake Cable Tension	Check tension and adjust if necessary.					[6]	
Fuel System	Check for leaks at tank cap, lines and fuel pump.					[7]	
Radiator	Check for leaks and clean external surfaces.						
Cooling Hoses, Engine Mounts, Exhaust Pipe and Muffler	Inspect for damage or leaks (if applicable) Replace components if necessary.						
Engine Oil and Filter	Replace oil and filter. Clean oil tank screen. See specification section for proper oil requirements.			[1]		[4]	
Wiring	Inspect for wear and routing. Apply dielectric grease to connectors subjected to water, mud, etc.						
Clutches, (Drive and Driven) and Drive Belt	Inspect for damage or wear. Clean clutches and replace worn parts.					[4]	
Front and Rear Suspension and Steering	Inspect for steering freeplay and suspension wear.					[4]	
Front Wheel Bearings	Inspect. Replace as needed.						
Fuel Filter	Replace filter element.						
Alternator / Fan / Water Pump Belt	Check belt tension and adjust or replace as needed.						[1]
Toe Adjust	Inspect front axle toe adjustment. Adjust if necessary and when parts are replaced.						
Brake Fluid	Replace the fluid.						[3]
Cooling System	Test coolant strength and pressure test system.	Every year					
Coolant	Replace the coolant	Every two years					
Spark arrester Muffler	Empty Spark Chamber.	Every 300 Hours or 3 years					
Engine Valves	Adjust the engine valves. See your Bobcat dealer for this service.	1000 Hours					
Engine Breather System	Inspect crankcase breather system. See your Bobcat dealer for this service.	1500 Hours					

- [1] Perform first service at 50 hours; then as scheduled.
- [2] Change yearly.
- [3] Change as scheduled or every 2 years (whichever comes first).
- [4] Perform these procedure more often for vehicles subjected to severe use.
- [5] Emission Control System Service.
- [6] Adjust after the first 25 hours of operation.
- [7] Replace fuel hoses every 2 years.

Product: Bobcat 3450 Utility Vehicle Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/bobcat-3450-utility-vehicle-service-repair-workshop-manual/>



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