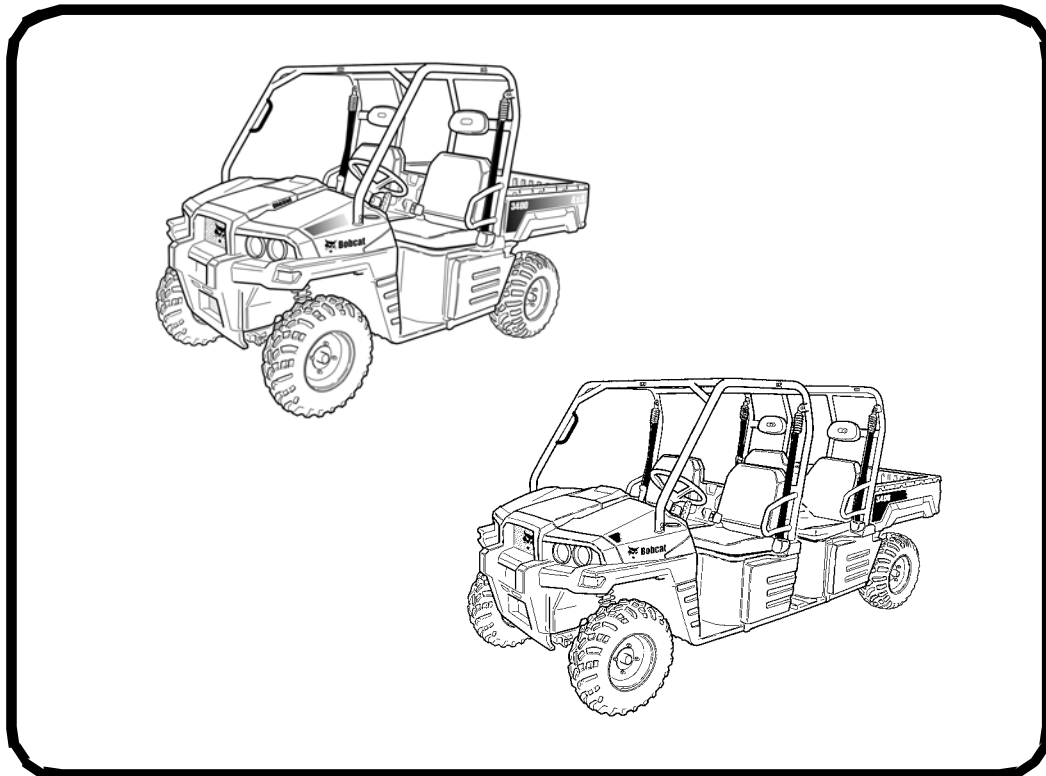




Bobcat®

Operation & Maintenance Manual 3400, 3400XL Utility Vehicle

MY14 S/N AJNT31282 & Above
MY14 S/N AJNV30371 & Above




OPERATOR SAFETY WARNINGS



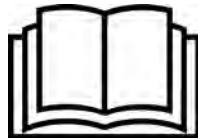
WARNING

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


W-2855-0510

 **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 use the utility vehicle without instructions. See safety signs (decals) and Operation & Maintenance Manual.

CORRECT




NA5178


 Wear eye protection and keep hands and feet inside vehicle at all times.

 Always fasten your seat belt snugly.


CORRECT




NA5192

 Do not operate the vehicle with the ROPS removed.


CORRECT




P-97282

 Never operate this vehicle if you are under age 16 and without a valid driver's license.


WRONG




NA5191


 Do not use utility vehicle in atmosphere with explosive dust, explosive gas, or where exhaust can contact flammable material.


WRONG



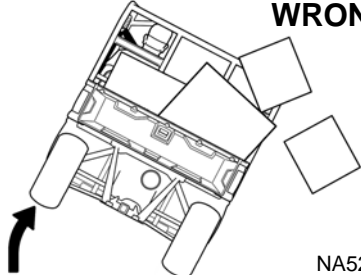
NA5180

 Carry passenger(s) only in the passenger seat(s).


 Keep bystanders away from work area.


 No riders in Cargo Box.

WRONG




NA5206


 Slow down when turning.


 Secure loads.

WRONG

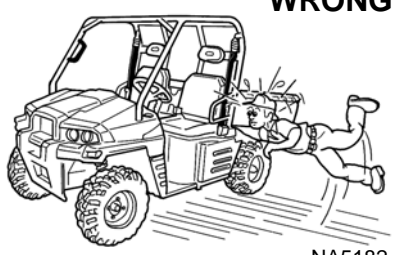


NA5188


 Never exceed vehicle load capacities.


 Check for proper tire pressure.

WRONG




NA5182


 Never leave vehicle with engine running or with cargo box up.


 To park, engage the Park Brake and stop the engine.

WRONG



NA5201

 Never modify equipment.

 Use only accessories and attachments approved by Bobcat Company for this vehicle.

SAFETY EQUIPMENT

The utility vehicle must be equipped with safety items necessary for each job. Ask your dealer for information on the safe use of attachments and accessories.

1. **SEAT BELTS:** Check fasteners, check for damaged webbing or buckle.
2. **ROLLOVER PROTECTIVE STRUCTURE (ROPS):** It must be maintained in good condition.
3. **SAFETY SIGNS (DECALS):** Replace if damaged.
4. **GRAB HANDLE(S):** Replace if damaged.
5. **START INTERLOCK SYSTEM:** Check function.



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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat utility vehicle in the spaces below. Always use these numbers when referring to your Bobcat utility vehicle.

Utility Vehicle Serial Number _____
Engine Serial Number _____

NOTES:

YOUR BOBCAT DEALER:

ADDRESS:

PHONE:

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM



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FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat utility vehicle. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT UTILITY VEHICLE. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your Bobcat utility vehicle.

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BOBCAT COMPANY IS ISO 9001 CERTIFIED







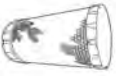







ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture and distribute Bobcat products.

British Standards Institute (BSI) is the Certified Registrar Bobcat Company chose to assess the Company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner and Bismarck, North Dakota (U.S.A.), Pontchateau (France), Dobris (Czech Republic) and the Bobcat corporate offices (Gwinner, Bismarck & West Fargo) in North Dakota. Only certified assessors, like BSI, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

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.

REGULAR MAINTENANCE ITEMS

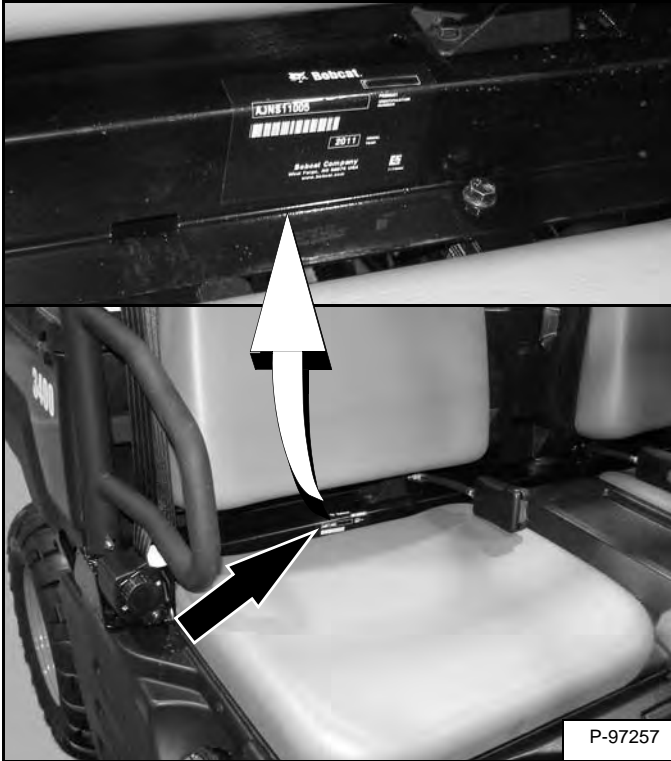
	ENGINE OIL FILTER 7018608		BATTERY 7017791
	ENGINE BREATHER FILTER 7016378		SPARK PLUG 7018492 - (NGK BKR5E)
	AIR FILTER 7016038		FRONT DIFFERENTIAL FLUID 2878408 - (1 qt)
	AIR PRE-FILTER 7016382		ETHYLENE GLYCOL ANTI-FREEZE (1 U.S. gal) 6988096 - Premixed [-34°F (-37°C)] 6988097 - Concentrate
	CVT FILTER 7016384		BRAKE FLUID 6988958 - DOT 4 Brake Fluid - (12 oz)
	DRIVE BELT 3400 = 7018600 3400XL = 7018601		SYNTHETIC GEARCASE FLUID 2878409 - (1 qt)
ENGINE OIL 2879441	SYNTHETIC ENGINE OIL 5W-50 (12 qt)	GREASE 6903122	Multi Purpose #2 (14 oz Tube)

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.

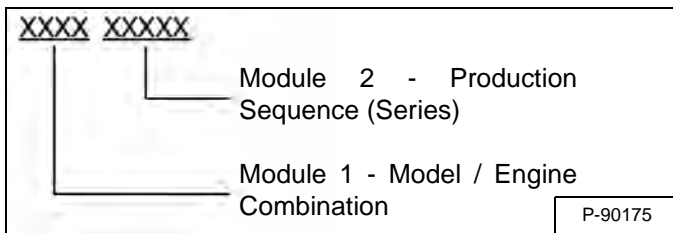
Utility Vehicle Serial Number

Figure 1



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

Figure 2

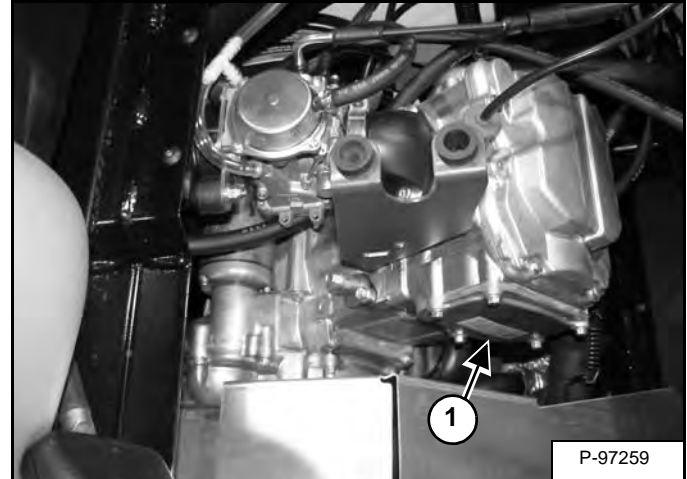


Explanation of utility vehicle serial number [Figure 2]:

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

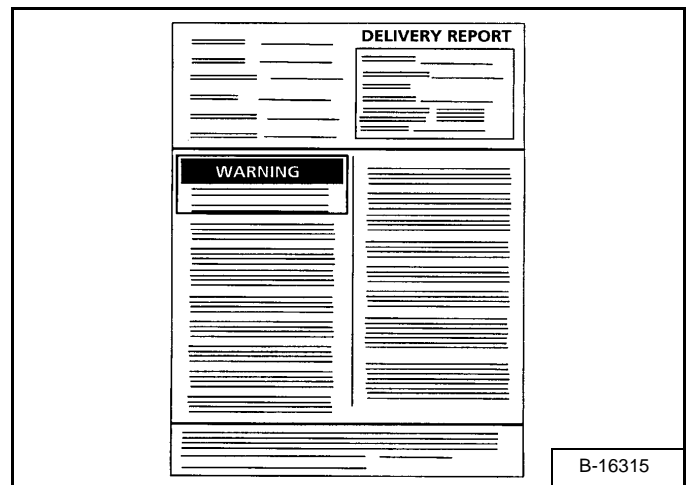
Figure 3



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

DELIVERY REPORT

Figure 4



The delivery report [Figure 4] contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat utility vehicle is delivered.

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

EMISSION CONTROL SYSTEMS

Noise Emission Control System

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with the U.S.A. EPA noise control requirements (40 CFR 205) and local noise level requirements.

Operating On Public Lands In The U.S.A.

Bobcat warrants that the spark arrester in this vehicle will meet the efficiency requirements of the USFS standard 5100-1c for at least 1000 hours when subjected to normal use and when maintenance and installation are in accordance with Bobcat recommendations.

Operation of off-road vehicles on public lands in the U.S.A. is regulated by 43 CFR 42. Violations are subject to monetary penalties. Federal regulations can be viewed on line at www.gpoaccess.gov/ecfr/.

Crankcase Emission Control System

This engine is equipped with a closed crankcase system. Blow-by gases are forced back to the combustion chamber by the intake system. All exhaust gases exit through the exhaust system.

Exhaust Emission Control System

Exhaust emissions are controlled by the engine design. An electronic fuel injection system (EFI) system controls fuel delivery. The engine and the EFI components are set at the factory for optimal performance and are not adjustable.

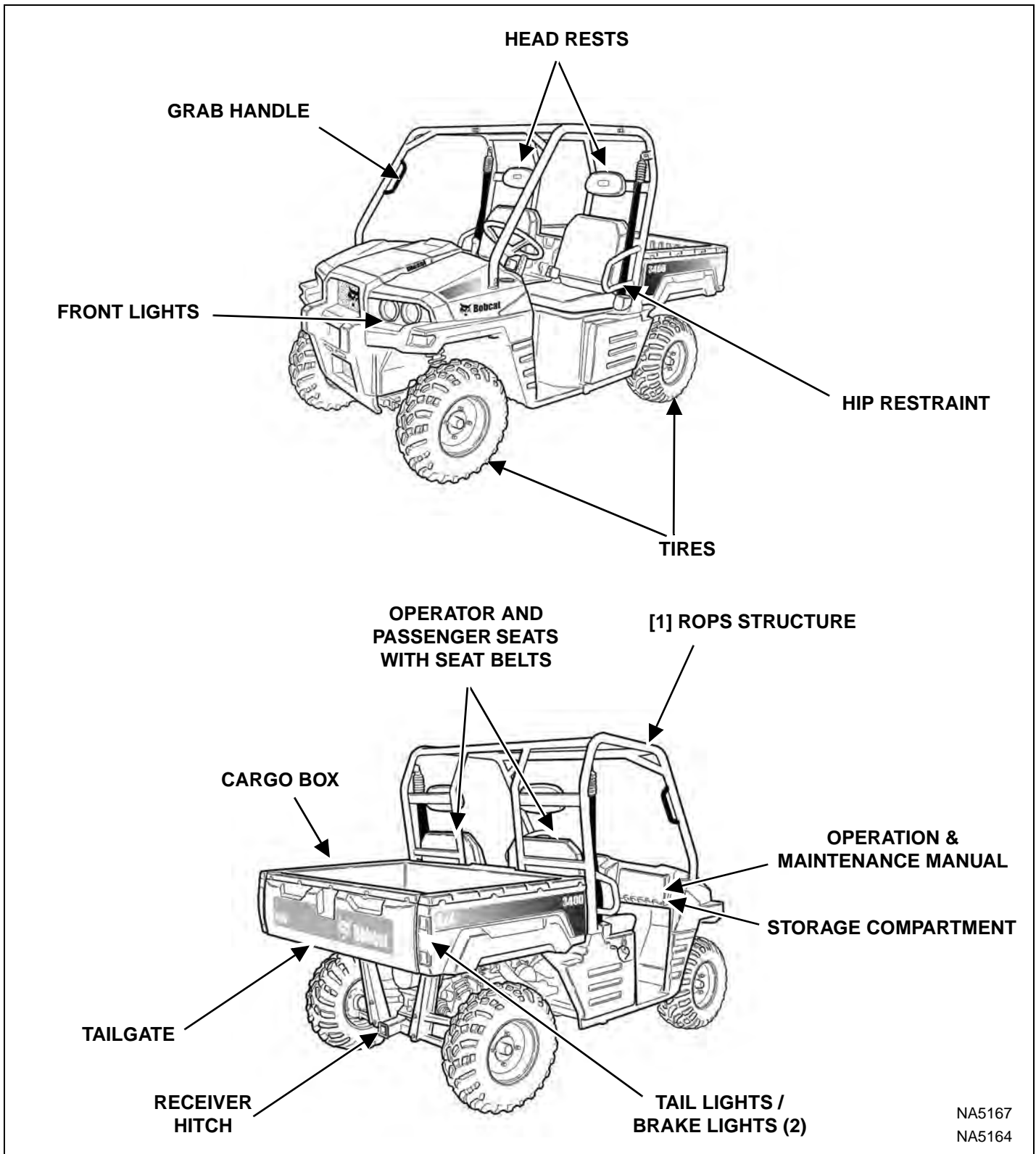
The emissions label is located on the frame under the seat.

Electromagnetic Interference

The spark ignition system complies with Canadian ICES-002.

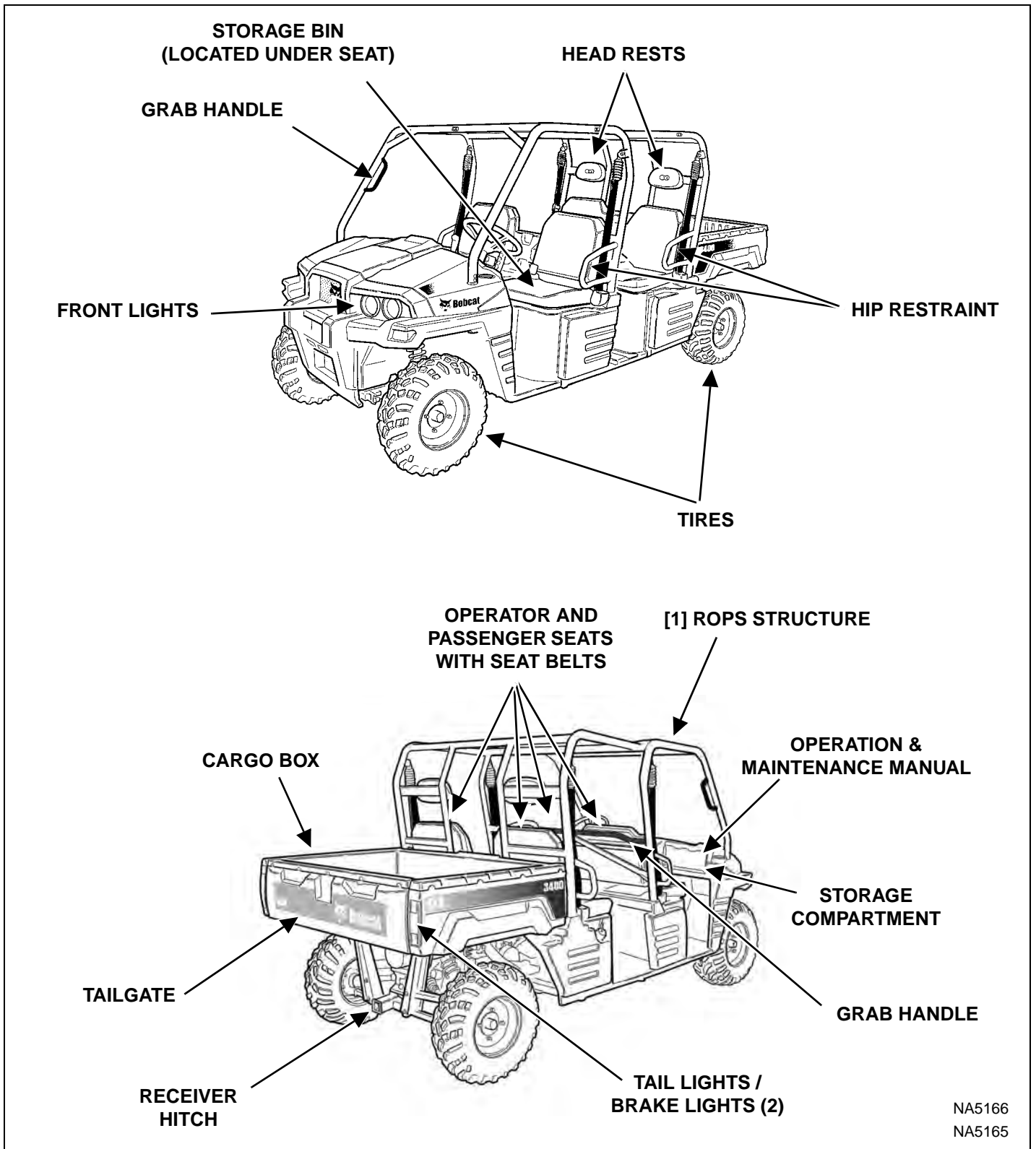
This vehicle complies with the EMC requirements European directives 97/24/EC and 2004/108/EC.

(3400) UTILITY VEHICLE IDENTIFICATION



[1] ROPS - Roll-Over Protective Structure, per OSHA 1928.53: 2006, ISO 5700: 2006 and SAE J2194: 2009.

(3400XL) UTILITY VEHICLE IDENTIFICATION



NA5166
NA5165

[1] ROPS - Roll-Over Protective Structure, per OSHA 1928.53: 2006, ISO 5700: 2006 and SAE J2194: 2009.

FEATURES, ACCESSORIES AND ATTACHMENTS

Standard Items

The 3400 utility vehicle is equipped with the following standard items:

- Tilt Steering Column
- Beverage Holder (2)
- Cargo Box With Lift Assist
- Four-Wheel Drive With Locking Rear Differential
- Front & Rear Independent Suspension
- Front Headlights
- Rear Tail / Brake Lights
- Instrumentation:
 - Park Brake and Engine Temperature Warning Lights, Hourmeter, and Gear Selector Icons (R-N-L-H)
- Parking Brake
- Power Port (12 Volt)
- Quick Latch Tailgate
- Rear Receiver Hitch
- Seat Belts With 3-Point Restraint
- Skid Plates
- Spark Arrester Exhaust System
- Tires - Standard - Front 25 x 10 - 12
- Tires - Standard - Rear 25 x 11 - 12
- High - Low Range Forward Travel
- Continuously Variable Transmission (CVT)
- Under Seat Storage Bin (3400XL Only)

Options And Accessories

The utility vehicle can be equipped with the following options and field installed accessories.

- Speedometer
- Bench Seat Kit (with 3-Point Restraint Seat Belt and Center Grab Handle)
- Powered Cargo Box Lift Kit
- Back-up Alarm
- Front Brush Guard
- Strobe Light Kit
- Horn Kit
- Turn Signal Kit
- Mirror - External
- Mirror - Universal Rear View
- Front / Rear Worklight Kit
- Cargo Box Divider
- Radio Kit (with Speakers)
- Heavy Duty Front Spring Kit
- Step / Nerf Bars
- Cab (Hard) - (3400 Only):
 - Windshield - Premium Glass - fixed
 - Windshield - Premium Glass - tip out
 - Wiper - Premium Windshield - fixed
 - Wiper - Premium Windshield - tip out
 - Heater Kit
- Cab (Soft):
- Windshield - Economy Poly
- Dash Defrost Fan Kit
- Roof Canopy
- Gun Scabbard Mount
- Gun Boot, Black or Camo
- Gas Can Mount
- Chainsaw Mount
- Cooler Mount
- Vertical Tool Holder
- Cargo Box Wall Extensions
- Cargo Box Anchor Kit
- Winch - With Remote Control
- Snow Plow Kit
- Front Receiver Hit Kit
- Speed Limit Kit (25 mph)
- Speed Limit Kit (35 mph - with Side Nets)

Attachments

These and other attachments are approved for use on this model Bobcat utility vehicle. Do not use unapproved attachments. Attachments not manufactured by Bobcat may not be approved.

See your Bobcat dealer for information about approved attachments and attachment Operation & Maintenance Manuals.

- Sprayer

Specifications subject to change without notice.

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SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat utility vehicle is highly maneuverable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off road, rough terrain applications, common with Bobcat utility vehicle usage.

This vehicle handles differently than other vehicles, such as motorcycles, golf cars or cars. If you fail to take proper precautions, a collision or rollover can occur quickly, even during routine maneuvers like turning, braking, driving over rough terrain and up and down hills or over obstacles. This can result in severe injury or death.

This vehicle is intended for off road use only and should not be operated on public roads.

Driving this vehicle in an aggressive manner can increase the risk of head injury and requires head protection. For these aggressive driving conditions, Bobcat Company recommends that all occupants wear a properly fitting Department of Transportation (D.O.T.) approved helmet.

Always follow these instructions:

- Fasten seat belts for occupant restraint before operating.
- Keep hands and feet inside the vehicle at all times.
- Travel at appropriate vehicle speeds depending on the type of terrain, visibility conditions, operating conditions and your operating experience.
- Wear eye protection.
- Wear other personal protective equipment such as a helmet or hard hat, face protection, hearing protection, safety boots or shoes, chemical suit, respirators and gloves as needed by work location and vehicle operation.
- NEVER attempt jumps or other stunts with the vehicle.

This vehicle is an ADULT VEHICLE ONLY. NEVER operate this vehicle if you are under age 16 and NEVER operate without a valid drivers license.

No person under the age of 12 may ride as a passenger in this vehicle. Any passenger must be able to comfortably reach the floor and hand holds.

Never permit a guest to operate this vehicle unless the guest has read this manual and all safety signs (decals).

Always inspect the vehicle before each use to make sure it is in safe operating condition. Always follow the inspection procedures described in this manual.

The Bobcat utility vehicle has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill or cause illness so use the utility vehicle with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat utility vehicle, attachment and accessories for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments and accessories.

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

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the utility vehicle, attachments and accessories are in safe operating condition.
- The Operation & Maintenance Manual delivered with the vehicle or attachment gives operating information as well as routine maintenance and service procedures. It is a part of the utility vehicle and can be stored in the storage compartment. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Utility vehicle signs (decals) instruct on the safe operation and care of your Bobcat vehicle, attachments and accessories. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- See the PUBLICATIONS AND TRAINING RESOURCES Page in this manual or your Bobcat dealer for Service and Parts Manuals, printed materials, videos, or training courses available. Also check the Bobcat web sites www.training.bobcat.com or www.bobcat.com

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.



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.).

SI UV-0913

SAFETY INSTRUCTIONS (CONT'D)

Safe Operation Is The Operator's Responsibility



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

W-2855-0510



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

I-2317-0510



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



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 Bobcat utility vehicle, attachments and accessories must be in good operating condition before use.

Check all of the items on the Daily Inspection as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate the utility vehicle, attachments and accessories.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, and utility vehicle 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.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the vehicle, attachments and accessories safely under all conditions of the work area. Always fasten seat belt before operating.
- The utility vehicle Safety Video is available from your Bobcat dealer in english and spanish. It provides information for safe vehicle operation.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the vehicle Rated Capacities. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she 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 *Before Operation* section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment and hearing protection are required for some work.

SI UV-0913

SAFETY INSTRUCTIONS (CONT'D)

Equipment Modifications

Bobcat strongly recommends that operator's do not install on the Bobcat Utility Vehicle, any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the utility vehicle create a substantial safety hazard and increase the risk of bodily injuries.

The warranty on your Bobcat Utility Vehicle is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increases speed or power.

Avoid Silica Dust



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.

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.

FIRE PREVENTION (CONT'D)

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.

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

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

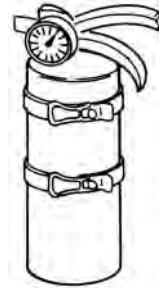
Welding And Grinding

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 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.

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