



Circular 138:10:07

To: Club Secretaries
Club Presidents
Club Captains

cc District Officers
LSO State Officers
Regional Officers

From: Greg Scott, Support Officer – Lifesaving Services

Date: 18 October 2007

Subject: Yamaha Rhino ATV Safety Rework

Action: Fit doors / install reverse beepers

In order to improve operator/passenger safety and comfort, Yamaha has developed **new doors and additional handholds** for the Rhino ATV.

All Rhino owners are being offered these important new safety features **installed free of charge**. In addition to these upgrades, SLSA is formalising a requirement for reversing beepers to be fitted to all ATV's **at club expense**.

Action

SLSA requires that all Yamaha Rhino's undergo the safety rework, and that all ATV's are fitted with reversing beepers. Clubs and services that own or operate a Yamaha Rhino must meet these two requirements **by 1st September 2008**, however in the interest of member safety it should be undertaken **as soon as possible**.

- The fitting of doors and passenger handles to all Yamaha Rhino model ATV's.
- The Installation of reverse beepers on all ATV's.

Due to the importance of these features in terms of operator, passenger and pedestrian safety, LSV advises all clubs and services to proceed with the upgrading of all ATV's. Clubs are asked to make an appointment with their Yamaha dealer to take make arrangements for upgrades.

Further information follows in SLSA circular 26/07-08

For additional detail on this Circular contact:

Greg Scott, Lifesaving Services, Support Officer

Email: greg.scott@lifesavingvictoria.com.au : or by phone (03) 9567 0013

Circulars are also available at www.lifesavingvictoria.com.au

Address: PO Box 353, South Melbourne DC Vic 3205



Surf Life Saving Australia – Circular October 2007

ATV Safety Rework

Document id 26/07-08	Audience Club Captains, Gear Stewards, Lifesaving Directors, ATV Operators
Department Lifesaving	

Summary
In order to improve operator/passenger safety and comfort, Yamaha has developed new doors and additional handholds for the Rhino ATV. All Rhino owners are being offered these new features installed free of charge. In addition to these upgrades, SLSA is formalising a requirement for reversing beepers to be fitted to all ATV's.

Action
SLSA requires that all Yamaha Rhino's undergo the safety rework, and that all ATV's are fitted with reversing beepers. Clubs and services that own or operate an ATV are asked to meet these two requirements (where applicable) before 1st September 2008.

From Matthew Bruce National Lifesaving Development Officer	Ben Whibley National Lifesaving Manager
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Surf Life Saving Australia wishes to advise members of two important safety issues affecting the use of ATV's:

- 1) The fitting of doors and passenger handles to all Yamaha Rhino model ATV's.
- 2) The Installation of reverse beepers on all ATV's.

Due to the importance of these features in terms of operator, passenger and pedestrian safety, SLSA advises all clubs and services to proceed with the upgrading of all ATV's.

Rhino ATV Safety Rework

Yamaha Motor Australia has developed new doors and additional passenger handholds for the Rhino ATV. These new features, as shown in the enclosed guide, are designed to help keep occupants from sticking arms or legs out of the vehicle in response to a side rollover.

From mid 2008, all new model Yamaha Rhinos will come with these additions already fitted as standard components. Further, Yamaha has recommended to SLSA that these doors and handholds be installed on all existing Rhinos, along with a revised safety sticker to replace the existing safety instructions on the dashboard.

To this end, Yamaha is offering all Rhino owners the option of having these new features installed **FREE OF CHARGE**. Clubs are asked to make an appointment with their Yamaha dealer to take advantage of this special offer.

Please refer to the attached correspondence from Yamaha.



Reverse Beepers

In order to reduce the risk of reverse injuries to pedestrians, all clubs and services will be required to ensure that their ATV's have a reversing beeper alarm fitted. This is especially important given that ATV's are operated in and around areas frequented by children, and in close proximity to crowded beaches.

Reverse beepers can be fitted by your local ATV dealer at a reasonable cost. Clubs should expect the beeper component to cost as little as \$30, with up to one hours labour charged for installation. The actual price will vary from dealer to dealer and clubs are advised to request a quotation before proceeding with the installation.

SLSA Policy 4.5 – Supply and Use of Quadbikes (ATVs) is currently being reviewed to reflect the new requirement of a reversing beeper.

In addition, as of season 2008-09, ATV's will be required to have reverse beepers fitted in order to pass the annual gear inspection. It should be noted that some state gear inspections already have this requirement.

Upgrade Schedule

Clubs and services that own or operate an ATV are asked to ensure that a reversing beeper is fitted, and the Rhino safety rework completed (if applicable) by **1 SEPTEMBER 2008**. This allows ample time for clubs to arrange the refit with their local dealer, and for Yamaha to fulfil orders for parts required for the safety rework.

ATV's requiring both the safety rework and the installation of a reverse beeper could undergo both upgrades simultaneously and possibly in conjunction with any regular servicing.

Action Required

Clubs are asked to ensure that all ATV's are upgraded / fitted as required by **1 SEPTEMBER 2008**.

For further information and enquires please contact your state centre, or SLSA's National Lifesaving Development Officer on (02) 9300 4000.



TECHNICAL SERVICE INFORMATION



PRODUCT	SSV	TSI	0708	REVISION No:
MODEL	YXR660 Rhino	DATE	30/08/2007	For Authorised Yamaha Dealers use only!
SUBJECT	New Doors and Passenger Handgrip			

BACKGROUND:

While the Rhino has been a reliable and versatile vehicle, some operators have engaged in abrupt manoeuvres (such as turning the steering wheel too far or too fast), or aggressive driving (such as sliding, skidding, fishtailing, or doing donuts), that have resulted in side rollovers – even on flat, open areas.

Unfortunately, some occupants have been seriously injured during such rollovers when they put their arms or legs outside the vehicle, resulting in crushing or other injuries.

Yamaha has developed new doors and additional passenger handgrip assemblies for the YXR660 Rhino.

These new features are designed to help keep occupants from sticking arms or legs out of the vehicle in response to a side rollover.

The new doors and handgrip assemblies may also enhance passenger stability and comfort.

To promote awareness of the new free product features, and to help reinforce safe and responsible use of the Rhino, Yamaha has also developed a label to put on the dashboard in the vehicle.

Please note: Yamaha is offering this kit to all Rhino customers free of charge and regardless of age or warranty status.

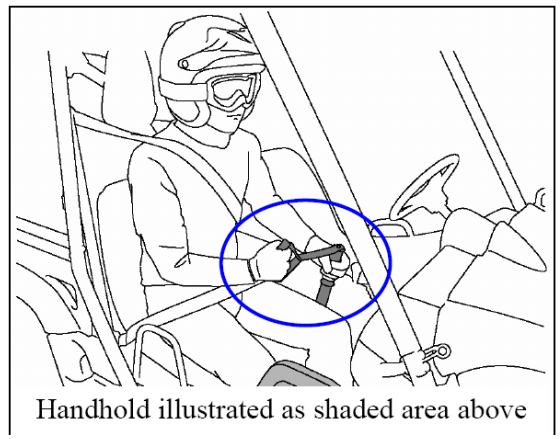
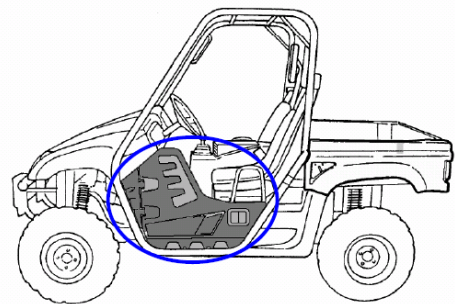
YMA ACTION:

- YMA will notify all registered customers by mail advising of this offer. (See Copy attached)
- YMA will issue door / handgrip kits to all dealers with new Rhino floor stock for modification.

DEALER ACTION:

- Fit door / handgrip kits to all new Rhino floor stock.
- Fit door / handgrip kits to all used floor stock regardless of age or warranty status.
- Offer a door / handgrip kit to all Rhino customers at the time of service or repair (free of charge)
Note – do not fit a kit without the owner's consent.
- Contact all known customers to advise them of the modification (free of charge)
Note – do not fit a kit without the owners consent.
- Claim for reimbursement Via YDC net – see page 2 for details.

Door illustrated as shaded area below



Handhold illustrated as shaded area above

IMPORTANT!

Keep a written record of any instance where the customer declines fitment of the Door Kit.

AFFECTED RANGE:

Model	Year	Serial Number Range
YXR660 Rhino	2005 ~2007 2004	AM04W-500201 ~ 503450 AM04Y-001162 ~ 007833

PART INFORMATION:

All parts are available through Yamaha Parts Centre

Model	Kit Number & Kit Name	QTY
YXR660	SSV-5B4DR-KT-00 "RHINO DOOR KIT"	1

Kit Contents	QTY	Kit Contents	QTY
Door (left side)	1	Grip Assist Bolts,	4
Door (right side)	1	6mm Washers, q	4
Curved Washer	4	Warning Label,	1
Door Hinge Bolts (Hex)	4	Rivets,	4
Door Latch	2	Rivet washers,	4
Door Latch Bolts (short)	4	Template	1
Grip Assist Assembly	1		

WARRANTY:

Please submit a **Campaign claim** via YDC net for all Rhino door kits fitted. Dealers will be reimbursed for the Door Kit and labour for installation.

Campaign Number	M850
Primary Failed Part	SSV-5B4DR-KT-00
Labour Time	1.0 hrs

SERVICE PROCEDURE

Special Tools/Supplies Required

- 8mm Hex Tamper Resistant bit or TORX® T-50 Tamper Resistant bit
- Rotary cut off tool or jig saw
- Rivet gun
- Masking tape
- 3mm (1/8") drill bit
- 5mm (13/64") drill bit
- 10mm (25/64") drill bit • 12.5mm (1/2") drill bit
- Blue Loctite® 242

Preparation

Place vehicle on a level surface and set the parking brake. Clean all mounting surfaces before beginning installation.

CAUTION:

Put masking tape on frame tubes to prevent damage to the finish while drilling holes.

Installation (left side shown)

1. Use a 5mm (13/64") bit to drill out the two rivets located on lower frame tube on each side (see Fig.1).
2. Using the rivet holes as an index, drill through the frame tube with a 10mm (25/64") drill bit. Keep the drill bit as perpendicular to the frame tube as possible.
3. Enlarge the holes on the door side of the frame (toward the rear of the vehicle) with a 12.5mm (1/2") drill bit or a step drill bit. Do not drill through the holes on the other side; they remain 10mm (25/64") (see Fig. 2).
4. Insert door hinge mounting studs in the holes. Secure the door hinge in place using curved washers and bolts from the opposite side of tube (see Fig. 3). Using an 8mm Hex Tamper Resistant bit or TORX® T-50 Tamper Resistant bit, apply Blue Loctite® 242 to the threads and tighten the bolts to specification.

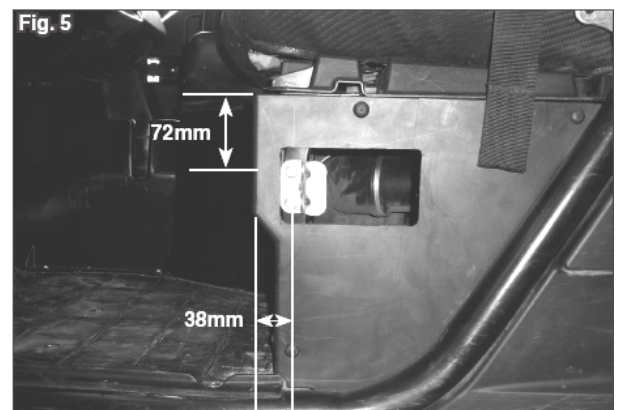
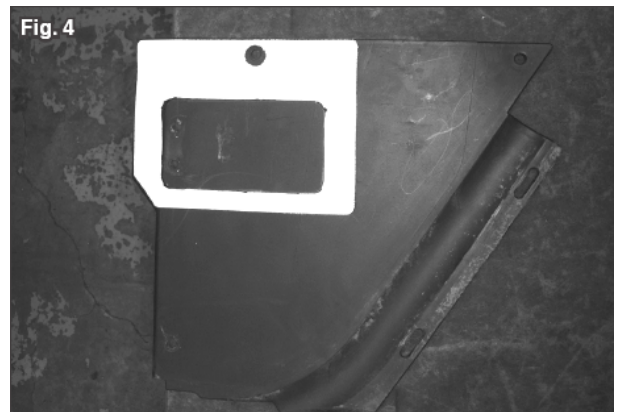
**Hinge Mounting Bolt Tightening Torque: 23 Nm
(2.3 m • kg, 16.9 ft • lb)**

5. Repeat the procedure for the other side.



Latch Striker Plate Installation (left side shown)

1. Remove the adhesive backing and place the left-hand template from the kit on the side panel below the seat. Be sure the template is aligned properly with top and front edges, then press down firmly (see Fig. 4).
2. Remove the plastic rivets securing the side panel and remove the panel.
3. Cut out the rectangular opening for the latch striker plate. Drill 10mm (25/64") hole in each corner and then use a rotary tool or a jig saw to complete the cut-out. Remove any burrs and smooth the cut-out edges for a clean appearance.
4. Reinstall the side panel.
5. Hold the latch striker plate in place as shown in Fig. 5. Centre it to the steel square tubing and the cut out of the side panel and mark the two holes. Centre-punch the marks.
6. Drill the two holes into the steel support square tubing with a 5mm (13/64") drill bit. Drill into the outside surface of the square tubing only. Do not drill completely through the tubing.



⚠ WARNING

The fuel tank is behind the right side panel. Do not drill or cut into fuel tank. Leaking fuel is a fire hazard.

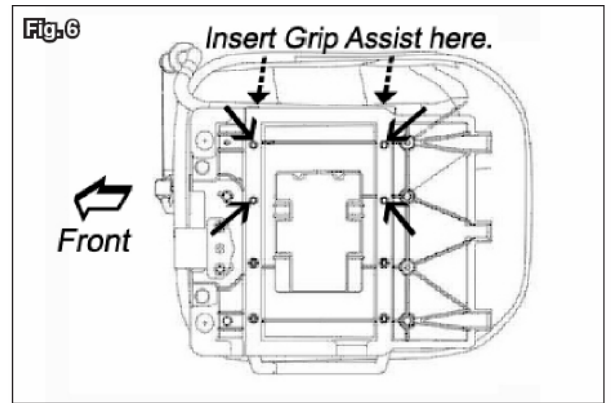
7. Install the door latch striker plate using two short self-tapping 6mm bolts provided in kit (see Fig. 5). Apply Blue Loctite® 242 to the threads and tighten to specification. Do not over-tighten.

Latch Striker Bolt Tightening Torque: 8 Nm (0.8 m • kg, 5.9 ft • lb)

8. Operate door to be sure it latches securely.
9. Repeat procedure for the other side using the right-hand adhesive template from the kit.

Grip Assist Assembly Installation

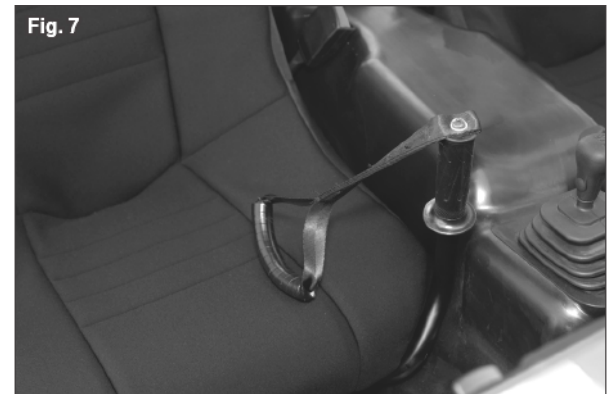
1. Remove passenger seat assembly.
2. Place seat upside down on a level surface.
3. Insert Grip Assist Assembly into the side of seat and secure with four self-tapping 6mm bolts and four step washers provided. Apply Blue Loctite® 242 to the threads and tighten to specification. Do not over-tighten (see Fig 6).



Grip Assembly Mounting Bolt Tightening

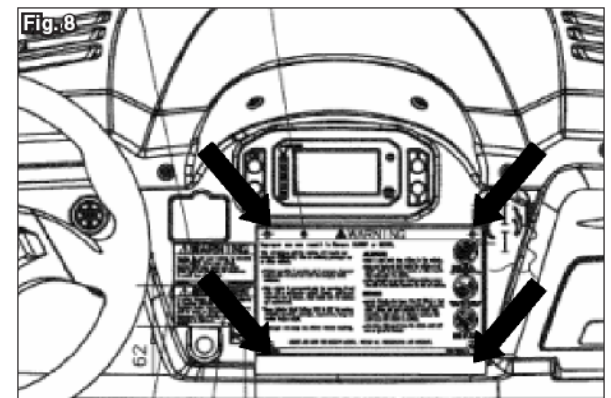
Torque: 8 Nm (0.8 m • kg, 5.9 ft • lb)

4. Reinstall the passenger seat (see Fig. 7).



Warning Label Installation

1. Use a 3mm (1/8") drill bit to drill out the four rivets holding the existing label in place (see Fig. 8).
2. Remove the original label.
3. Remove the adhesive backing and attach new label in place, keeping the rivet holes aligned. Secure the label with rivets/washers provided in kit (see Fig. 9).
4. Tag and hold the original label for 90 days from the date you submit your warranty request.





YAMAHA MOTOR AUSTRALIA PTY LTD A.C.N. 002556989

IMPORTANT NOTIFICATION

31st August 2007

VIN: «VIN»

«FNAME» «SNAME»
«ADR1»
«ADR2»
«ADR3» «STATE» «PCODE»

Selling Dealer: «DLRNAM»

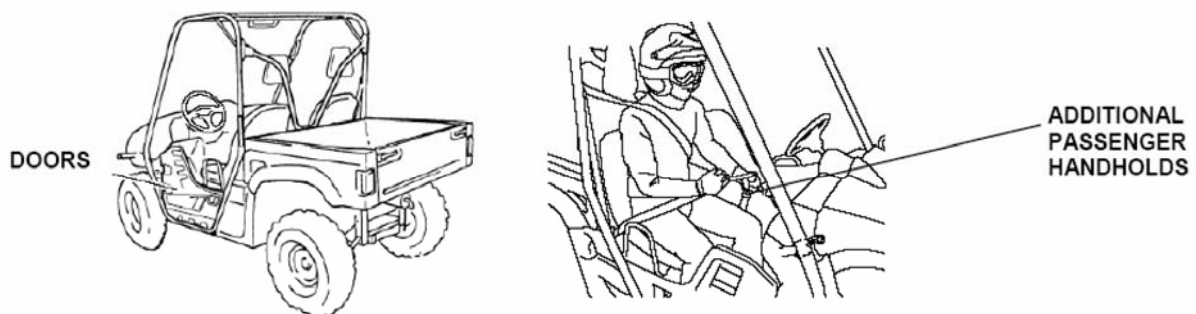
Dear Yamaha Rhino Owner:

This letter contains important information about your Yamaha Rhino.

While the Rhino has been a reliable and versatile vehicle, some operators have engaged in aggressive driving (such as sliding, skidding, fishtailing, or doing donuts) or made abrupt manoeuvres (such as turning the steering wheel too far or too fast) that have resulted in side rollovers – even on flat, open areas. Unfortunately, some occupants have been seriously injured during such rollovers when they put their arms or legs outside the vehicle, resulting in crushing or other injuries.

Special Offer to Rhino Owners

Yamaha has developed new doors and additional passenger handholds for the Rhino. These new features, as shown in the enclosed guide, are designed to help keep occupants from sticking arms or legs out of the vehicle in response to a side rollover. They may also enhance passenger stability and comfort. You can find more information at www.yamaha-motor.com/rhino. Yamaha recommends that you have these doors and handholds installed on your Rhino.



All Rhino Owners Can Have These New Features Installed Free of Charge.

Please make an appointment with your Yamaha dealer to take advantage of this special offer.

You may be aware that a number of aftermarket companies are now offering doors, panels, bars, netting, or similar products for installation on Rhinos. Yamaha cannot investigate or endorse aftermarket companies' products with respect to quality, fit, or safety. We only recommend genuine Yamaha parts and accessories for your Rhino.

Put This New On-Product Label on Your Rhino

To promote awareness of the new free product features and to help reinforce safe and responsible use of the Rhino, Yamaha has developed the enclosed adhesive label. Please read it and follow the instructions below to put it on your vehicle.

Guide to Genuine Yamaha Doors/Handholds and Rhino Occupant Protection

To help you understand how these new features fit into the overall approach to Rhino occupant safety, please read the enclosed guide. Please put the letter and the enclosed guide with your owner's manual for future reference and pass it on to a future owner.

Thank you for giving your attention to this important matter.

Yours faithfully
Yamaha Motor Australia

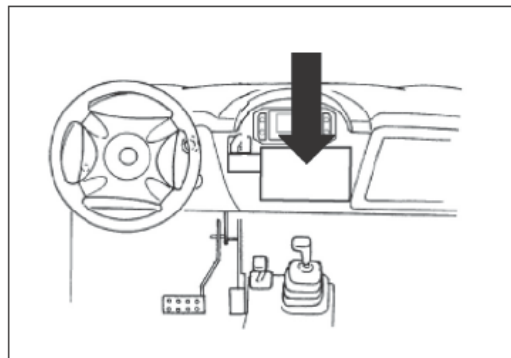
LABEL INSTALLATION INSTRUCTIONS

Please put the enclosed label over the existing label on your dashboard as follows.

1. The dashboard label on some models may still have a protective film over it. If yours has this film, simply peel it off before continuing.
2. Clean the surface of the existing label thoroughly with window cleaner or isopropyl (rubbing) alcohol.
3. Remove the backing from the new label and press it into place over the existing label.

TIP:

For easiest application, mix a few drops of liquid detergent with water in a spray bottle. Dampen the surface of the existing label completely with this mixture, and then apply the label as above. While the label is damp, you can move the label as needed to adjust its position. Then use a rubber squeegee or a towel to smooth any wrinkles in the surface of the new label. Allow to dry for about 12 hours before using your Rhino.



COPY - Supplement to Owner's Manual

Guide to Genuine Yamaha Doors/Handholds and Rhino Occupant Protection

Keep this guide with your owner's manual

CONTENTS

- Introduction
- Overview of Occupant Protection
- Head to Toe Safety Checklist
- Driver and Passenger Requirements

Introduction

You can have genuine Yamaha doors and additional passenger handholds installed for free. This guide can help you understand how these doors/handholds fit into an overall approach to occupant safety.

Know Your Vehicle

Keep in mind that the Rhino has higher ground clearance and other features to handle rugged terrain, and, as a result, can overturn in situations where some vehicles may not. This would include vehicles made primarily for pavement, roads, improved paths, or grounds-keeping. If you do not use care in maneuvering the Rhino, you can cause it to roll over even on flat, open areas.

Doing things with a Rhino that some people do for thrills in other vehicles (such as sideways sliding, skidding, fishtailing, or donuts) have led to side rollovers. These rollovers can result in crushed limbs and other serious injuries or death to drivers or passengers.

As the owner/operator, it is your responsibility to protect yourself and your passenger from accidents, including rollovers. The Rhino has many features, including a protective structure and seatbelts, to help protect occupants, but the best way to avoid injuries is to avoid accidents. There is a risk of injury or death in any accident, even with these safety features.

Overview of Occupant Protection

The Rhino comes with a variety of features to help reduce the risk of driver and passenger injury. These features work together, and when properly used, these features will help protect the occupants in the event of an accident. If these features are not used properly, they can cause injury.

If you install aftermarket products or have your vehicle modified, you may put yourself and others at greater risk of serious injury or death. You are responsible for any such changes to the vehicle.

1. Protective Structure

The vehicle cage/frame provides a protective structure that helps limit intrusions by branches or other objects and may reduce your risk of injury in accidents. The protective structure will not protect occupants in all rollovers or accidents.

Body parts outside of vehicle can be struck by passing objects or crushed during vehicle rollover. Do not put your hands or feet outside of the vehicle for any reason. Do not hold onto the door, cage/frame or hip restraint bar. Wear your seatbelt and helmet.

If you think or feel that the vehicle may tip or roll, do not put your hands or feet outside the vehicle for any reason. You will not be able to stop the vehicle from tipping over using your body. Any part of your body (arms, legs, and head) outside of the vehicle can be crushed by the vehicle cage/frame.

2. Seat belts

Seat belts should be worn by both driver and passenger. Driver must be sure that the passenger is belted before driving.

- Be sure the seat belt is not twisted, is close-fitting across the hips and chest, and is latched securely.
- Do not wear the lap belt across the abdomen or stomach.
- Do not put the shoulder belt behind the back.
- Failure to use seat belts properly may lead to an increased likelihood and severity of injury.

An unbelted occupant may strike the interior of the vehicle, the protective structure, or other objects in an accident or during operation. You may also fall completely out or be partially ejected from the vehicle, which may

lead to being crushed between the ground and the vehicle. Wearing the seat belt helps you remain in the vehicle – the doors and handholds are not a substitute for using a seat belt.

3. Doors



Now available at your dealership for free.

The doors are designed to reduce the likelihood that you will stick your leg out to stop the vehicle from tipping over or for any other reason in a rollover. The doors may also reduce intrusion of objects into the occupant area. Make sure the door is securely latched before operation. Do not place your arm or hand on the door during operation. Your hand or arm may be struck by objects or crushed against outside objects or the ground during a rollover.

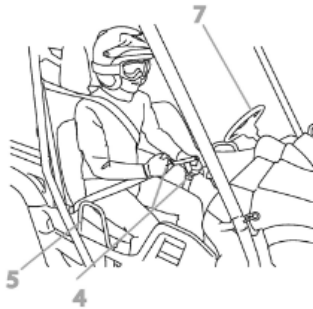


4. Passenger Handholds



Additional passenger handholds are now available at your dealership for free.

Handholds are provided to grip during operation to maintain proper position and balance. Holding onto the handholds helps to reduce the likelihood that the passenger puts a hand outside the vehicle if the vehicle begins to tip. There are two handholds on the protective structure. Two new handholds are available on the passenger's left side, for the right and left hands.



The driver should make sure the passenger is holding onto the handholds with both hands before operating the vehicle.

5. Seat & Hip Restraints

The seat and hip restraints are designed to help keep you in the vehicle. Do not hold onto the hip restraint bar when the vehicle is moving. Your hand or arm may be struck by objects or crushed against outside objects or the ground during a rollover.

6. Floorboard

The floorboard allows you to brace your feet, which helps you keep your body in the vehicle in the event of an accident or rollover. Keep your feet on the floorboard during operation.

7. Steering Wheel

When driving, keep both hands on the steering wheel.

Head to Toe Safety Checklist

- | | |
|----------------|---|
| ✓ Head | Helmet and eye protection. |
| ✓ Body | Seatbelt and protective clothing. |
| ✓ Hands | Inside vehicle and holding the handholds or steering wheel. |
| ✓ Feet | On floorboard, ready to brace, and door closed. |

Driver and Passenger Requirements

Driver Requirements

- This vehicle is intended for use only by an operator 16 or older with a valid motor vehicle license.
- The driver must be able to place both feet flat on the floorboard while seated upright with back against the seat back.
- Do not drive after using drugs or alcohol.



Remove the ignition key when the vehicle is not in use to prevent unauthorized use of the machine.

Parents:

Many states have implemented new motor vehicle licensing requirements for young drivers. These requirements are in response to the disproportionately high rate of crashes involving youthful drivers. As with automobiles, to promote safe driving behaviors, you should supervise younger drivers and consider setting rules and putting limits on how, when, and where the Rhino can be used.

Passenger Requirements

Your Rhino is designed for the operator and one passenger. Carrying passengers improperly can lead to serious injury or death. As the operator, you are responsible for your passenger.

- Your passenger must be able to place both feet on the floorboard while seated upright with his/her back against the seat back.
- Allow only one passenger on the vehicle in the passenger seat. Do not carry any other passengers. Do not carry passengers in the cargo bed.
- Do not allow someone to ride as a passenger who has been using drugs or alcohol.

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