



**Includes:**

- Important Safety Information
- Operating Instructions
- Maintenance and Storage

# **KVF650 4x4**

## **All Terrain Vehicle**

**Read this manual carefully. It contains safety information.**

**A child under 16 years old should never be allowed to operate this vehicle.**

# **OWNER'S MANUAL**

**ENGLISH**

# **All Terrain Vehicle Owner's Manual**



# Quick Reference Guide

This Quick Reference Guide will assist you in finding the information you're looking for.

**GENERAL INFORMATION**

**BREAK-IN**

**HOW TO RIDE**

**SAFE OPERATION**

**MAINTENANCE AND ADJUSTMENT**

**STORAGE**

**TROUBLESHOOTING GUIDE**

A Table of Contents is included after the Foreword.



Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.

## **DANGER**

### **HAZARD**

Failure to heed **DANGER**.

### **WHAT CAN HAPPEN**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

### **HOW TO AVOID THE DANGER**

Read all **DANGERS** in this manual carefully and for your safety be sure to follow their instructions.

## **WARNING**

### **HAZARD**

Failure to heed **WARNING**.

### **WHAT CAN HAPPEN**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### **HOW TO AVOID THE HAZARD**

Read all **WARNINGS** in this manual carefully and for your safety be sure to follow their instructions.

## **NOTICE**

**NOTICE** is used to address practices not related to personal injury.

## **NOTE**

- *This symbol indicates points of particular interest for more efficient and convenient operation.*

## **IMPORTANT**

Off-road vehicle riding is a wonderful sport, and we hope you will enjoy it to the fullest.

Read this manual carefully and completely before starting your new Kawasaki. It contains important safety information.

Never operate an ATV without proper instruction. Ask an authorized dealer for training courses, and where available, it is recommended to take the course before actually riding the ATV.

Never allow a child under the age of 16 years to operate this ATV. Use of this ATV by children under 16 years of age can lead to severe injury or death of the child. Even youths starting at age 16 may not have the skills, abilities, or judgment needed to operate this ATV safely.

Therefore youths starting at age 16 should have adult supervision even after they attend a rider training course. And parents should never allow continued use of this ATV if the youth does not have the abilities and maturity to operate it safely.

Failure to follow the warnings contained in this manual can result in **SERIOUS INJURY** or **DEATH**.

To protect the future of your sport, make sure you use your vehicle legally, show concern for the environment, and respect the rights of other people.

If improperly conducted, the sport has the potential to cause environmental problems as well as conflicts with other people. Responsible use of your off-road vehicle will ensure that these problems and conflicts do not occur.

# SAFE RIDING INFORMATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and riding on hills or over obstacles, if you fail to take proper precautions.

SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- The Owner's Manual should be kept in the waterproof plastic bag and stored in the storage area provided.
- Never operate an ATV without proper instruction. Ask an authorized dealer for training courses, and where available, it is recommended to take the course before actually riding the ATV.
- Never allow a child under age 16 to operate this ATV.
- Never carry a passenger on an ATV.
- Never operate an ATV on any paved surface, including but not limited to sidewalks, drives and parking lots.
- Always operate your ATV in accordance with local/national regulations.
- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV. Alcohol and drugs impair your judgment and reaction time.
- Before starting: put transmission in neutral and check the throttle control for proper operation.
- Remember to apply the parking brake before getting off your ATV.
- Never operate at excessive speeds. Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps, or other stunts.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footboards of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.



- Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, use proper gear and maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than that specified in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual. Type of tire and inflation can affect vehicle handling.
- A tire pressure gauge is provided in the tool kit container. Keep it with the vehicle at all times.
- Never modify an ATV through improper installation or use of accessories. Installation of accessory items may affect vehicle handling. Refer to the Loading Information chapter in this manual.

- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.
- Preserve the environment, ride responsibly and always know and obey laws and regulations governing ATV operation.
- Refueling: Shut engine off and make sure the area is well ventilated and free from any source of flame or sparks.
- Use an antenna flag in hilly terrain and sand dune areas.

# FOREWORD

Congratulations on your purchase of a new Kawasaki ATV. It is the result of Kawasaki's engineering expertise and a tradition of manufacturing high-quality recreational products.

**Please read this Owner's Manual carefully before starting your new ATV** so that you will be thoroughly familiar with the proper operation of your vehicle's controls, its features, capabilities, and limitations. This manual offers many safe riding tips, but its purpose is not to provide instruction in all the techniques and skills required to ride an ATV safely. Kawasaki strongly recommends that all operators of this vehicle enroll in an ATV rider training program to attain awareness of the mental and physical requirements necessary for safe ATV operation.

To ensure a long, trouble-free life for your ATV, give it the proper care and maintenance described in this manual. For those who would like more detailed information on their ATVs, a Service Manual is available for purchase from any authorized Kawasaki ATV dealer. The Service Manual contains detailed disassembly and maintenance information. Those who plan to do their own work should, of course, be competent mechanics and possess the special tools described in the Service Manual.

Keep this Owner's Manual aboard your ATV at all times so that you can refer to it whenever you need information. This manual should be considered a permanent part of the ATV and should remain with the ATV when it is sold.

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This publication includes the latest information available at the time of printing. However there may be minor differences between the actual product and illustrations and text in this manual.  
All products are subject to change without prior notice or obligation.

**KAWASAKI HEAVY INDUSTRIES, LTD.**  
**Motorcycle & Engine Company**

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Jan. 2012. (1)

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