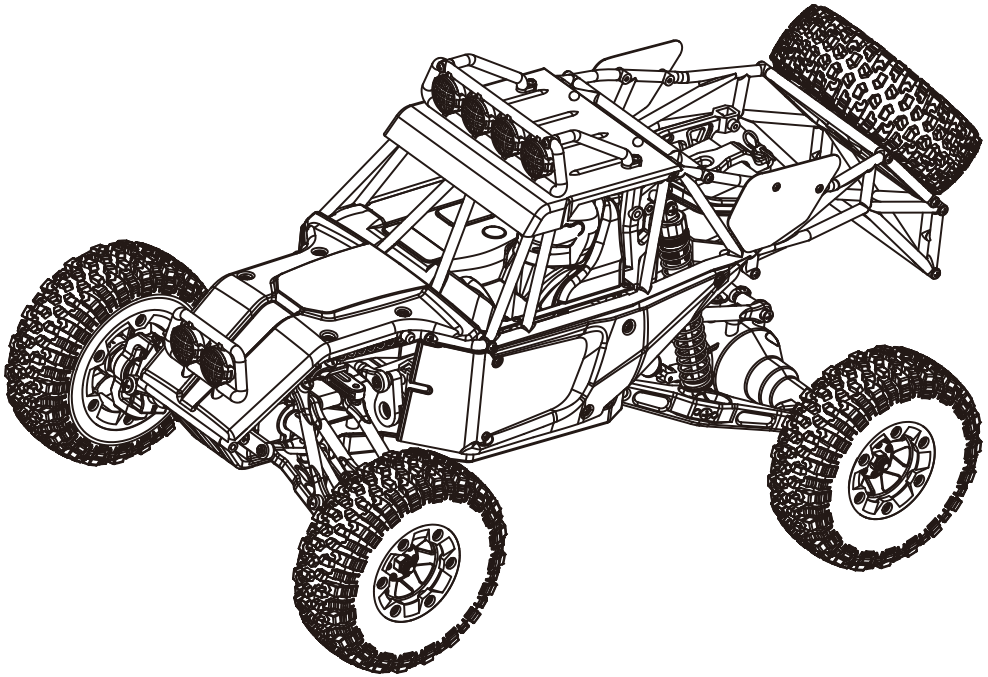




1:12 Scale R/C Cars

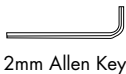
Rough Racers & Rock Crawler



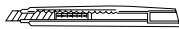
Congratulations on your purchase of a Ripmax 1:12 R/C car, please read these instructions carefully and fully before use and we hope you enjoy your car.

Specifications

Your R/C car is supplied in 'Ready to Run' format so you do not need any tools to operate it. Over time you may require the tools below to perform more indepth maintainance and repairs.



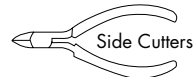
2mm Allen Key



Hobby Knife



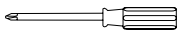
Phillips Screwdriver
Small



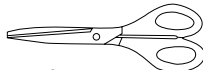
Side Cutters



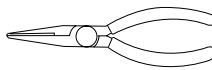
Thread
Lock



Phillips Screwdriver
Large



Scissors



Pliers Set



Cross Spanner

Specifications

- Car Scale: 1:12
- Car Battery: Lithium (Inc.)
- Driving Time: 10-15min (Approx)
- Car Charging Time: 3 Hours (Approx)
- Tx Max Control Range: 30-40M
- Tx Frequency: 2.4GHz
- Tx Batteries: 'AA' 1.5V (Required)

Important R/C Modelling Safety Notices

Make sure you read this safety information and the instructions before using your model. Follow exactly the recommended procedures and settings given in the instructions.

If you are operating a radio-controlled model car for the first time, we recommend that you enlist the help of an experienced modeler to guide you. There are also special clubs or modeling associations that offer training services and assistance.

Safety Information

Radio-controlled models are not toys in the usual sense, and young people under 14 years of age should not operate them unless supervised by an experienced adult. You are allowed to operate them for sports and recreational purposes, but sometimes authorisation from the local council may be required to use a model in certain locations.

The building and operating of models requires technical expertise, manual skill, a careful attitude and use of safety-conscious behavior. Errors, negligence and omissions in building these models can result in serious personal injury or damage to property. Changes to the construction and deviating from the operating manual will invalidate any warranty or liability claims.

Since the manufacturers and vendors of the equipment have no means of checking that your models are built and operated correctly, we explicitly bring your attention to these risks and deny all further liability.



A properly constructed model may still be dangerous if used incorrectly. Never reach into moving parts as this may cause serious injuries. Note that motors & controllers can reach high temperatures during operation. Avoid all contact with such parts.

The tools needed for assembly can also cause injuries. Even metal or plastic parts which are broken or untrimmed can cause injuries. Adhesives and paints may contain hazardous substances like solvents etc. Please observe the manufacturer's information and wear safety equipment (goggles, gloves etc.) when necessary. Rubber parts (e.g. rubber bands) may become old and brittle and fail. Such parts have to be checked before use.



Keep well clear of the electric motors and all moving components when the battery is connected. Mistakes happen and in spite of all safety precautions and there is always a risk of damage and injury from moving parts. For example, by you may unintentionally move the throttle stick on the transmitter during setup. Also ensure that other hazards such as pets are not able to come in contact with moving parts!



Always keep yourself at a safe distance from your model and pay particular attention while jumping for obstacles.



Observe the instructions of the battery and charger manufacturer.

Use only recommended battery chargers and recharge your battery only for the specified charging time/level. Excess or incorrect charging methods can lead to the battery exploding. Pay extra attention to ensure correct polarity.

Protect your equipment from dust, dirt and moisture. Do not expose the device to excessive heat, cold or vibration. The remote control operation may be performed only within the specified temperature range, avoid unusually hot/cold days.

Check your equipment regularly for damage and always replace damaged components with original spare parts.

Don't re-use any equipment or devices which have been subject to crash or water damage. Either return to the Service Department for repair or replace. Hidden problems may occur after crash or water damage which can lead to problems or total failure later in operation.

Use only recommended components and accessories. On remote control systems no changes may be made.

Routine Pre-Flight Checks

- Before switching on the receiver, ensure that the throttle control on the transmitter is in the motor stop position.
- Always switch on the transmitter first and then the receiver.
- Always switch off the receiver first, then the transmitter.
- Before use perform a range test.
- Check if the correct model memory is selected (if appropriate).
- Perform a function test before each use, ensuring to check the direction of travel, movement and all other functions including mixing functions and default switch positions.
- Ensure all batteries are fully charged.

Operating the Model

- Never operate your car towards spectators and maintain a safe distance at all times.
- Never endanger people or animals!
- Do not operate your model in the vicinity of canals, locks or open waterways.
- Do not operate your model from public roads, busy paths and squares etc.
- **Do not operate your models in thunderstorms as they could interfere with the radio remote control systems.**

Aerial Position

Never "point" the transmitter aerial straight at the model when in operation. The signal generated by the transmitter is at its weakest in an imaginary line extending straight from the aerial. It is always best for the user to stand in a position where the long side of the aerial points towards the model.

Insurance

Ground-based models are usually covered by standard personal third-party insurance policies. Check your insurance policy that you are suitably covered and abide by its guidelines.

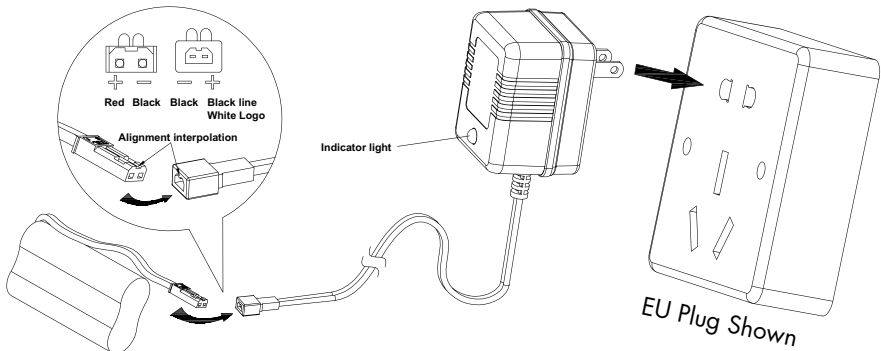
Liability Exclusion:

We have no control over the use of this product outside of the parameters of the instructions, regarding methods of assembly/installation, operation, misuse and poor maintenance of the product or it's components. Therefore, we assume no liability for any loss, damage or costs arising from the improper use/operation. Ripmax shall not be liable for any loss, consequential loss, damage or expense arising from the improper use or operation in anyway.

In as far as legally permitted, compensation shall be limited to the invoice value of the Ripmax products directly involved in the damage-causing event. This does not affect your statutory rights.

Battery Charging Instructions

1. Plug the battery charger into a mains socket and the LED indicator should illuminate green.
2. Connect the lithium battery to the red charger output connector and the charger LED indicator should change colour to red.
3. The battery is now charging, this should take less than 3 hours.
4. Once the battery is charged the charger LED indicator will change back to green indicating the battery is fully charged.
5. Disconnect the charger from the mains socket and store ready for next use.



Warning

- Only plug the charger into a conforming mains socket.
- Do not force the battery connector in backwards.
- Do not charge the battery if it is hot or has sustained any damage.
- Do not drop, crush, puncture or set fire to the battery.
- Do not leave the battery in direct sunlight for an extended period.
- Do not leave the charger unattended while charging.
- Do not over-charge the battery.
- If the battery is hot or smells, stop charging immediately and move it to a safe location.
- Disconnect the battery after use and store fully charged.
- Do not store the battery near a heat source.
- After use, if the battery is warm, do not use or recharge until it has cooled down.
- If you have any questions about safe battery use, contact your dealer.

- Only plug the charger into a conforming mains socket.
- Do not force the battery connector in backwards.
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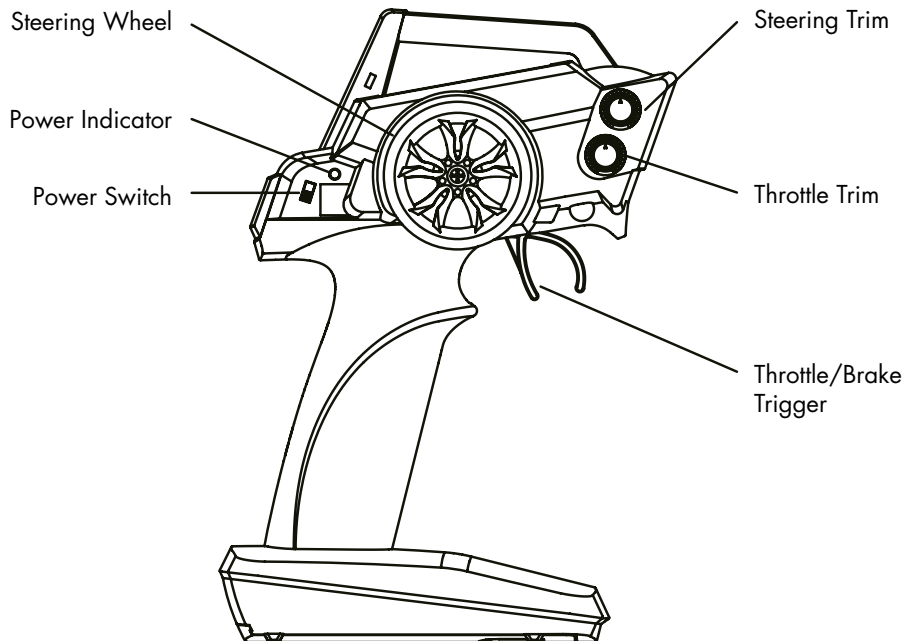
Battery Installation

The car battery is easy to install thanks to the hatch quick release mechanism. Follow these easy steps to install or reverse the order to remove it.

1. Turn the car upside down and ensure the power switch is set to 'OFF'.
2. On the hatch there are two sprung loaded catches, both need to be moved towards the centre and the hatch can be removed.
3. Unplug the battery and remove to a safe place.
4. Replace the battery hatch to stop water or dirt contamination.
5. Check the power switch is still set to 'OFF', so when you plug the battery in, the car will not be 'live'.

Transmitter Guide

Study the diagram below to understand the controls on your transmitter.



It is important to always ensure there is a signal to the car at all times. The car is on so remember to always turn the transmitter on before you turn on the car and always turn the car off before you turn off the transmitter. This way there is always a control signal going to the car.

Trouble Shooting Guide

If you are having troubles with your car then please try the following trouble shooting guide for help:

Problem	Possible Cause	Solution
The car does not operate at all.	The Transmitter or receiver is off.	Turn on both the car and transmitter.
	The batteries are not the correct way around in the transmitter.	Remove and re-insert the batteries checking polarity.
	The batteries are flat.	Replace the transmitter batteries and recharge the car battery.
The car does not do what I ask and the control range is short.	You are near large interference.	Try the car in a different location.
	The batteries are flat.	Replace the transmitter batteries and recharge the car battery.

If you are still having trouble then please contact the staff at the location you purchased the car for assistance.

Operating Instructions

Note: Always ensure the transmitter is on when the car is on. To do this switch on the transmitter first before use and turn it off last.

The steering is controlled by the steering wheel, turn it anti-clockwise to turn left and clockwise to go right when driving forward. Reverse the steering when reversing.

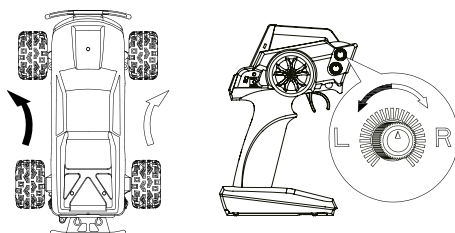
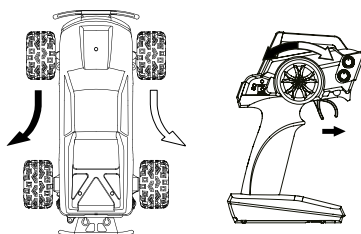
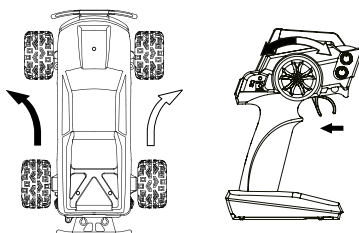
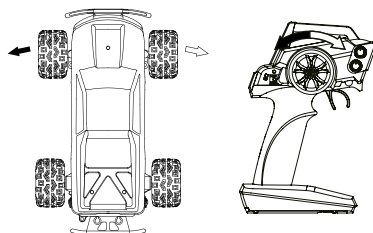
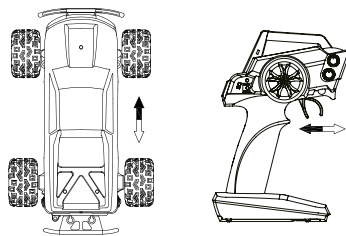
The throttle trigger controls power to the wheels. Pull the trigger back to accelerate, release to coast without power and push forward to brake. When stationary push the trigger forward to engage reverse.

The diagrams on the right are a useful guide to what each control does.

This product is suitable for use on or off road on surfaces such as tarmac, carpet, concrete, short grass and compacted dirt. Do not use on sand or loose gravel as this may be ingested into the motor and cause damage. Long grass or other extreme surfaces may cause excessive friction and overheat the motor so caution is recommended.

Do not drive the car to the point where the battery is completely flat, this will greatly extend the cars usable life. When the car drives slowly, stop and recharge the battery. When the power indicating LED on the transmitter starts flashing, replace the batteries immediately as the control range will be decreased.

Always switch off the car and transmitter after use to avoid draining the batteries further. After each use re-charge the battery before storage. Leaving the battery in an uncharged state will cause damage, reduce performance and shorten its usable life.



Rough Racer Buggy Spare Parts



Self Taping Screws (2 Pack)



M4 Locknut



2.4G Transmitter



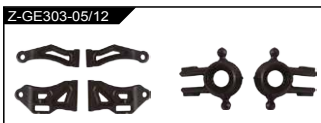
Front & Rear Tires



Bodyshell



Chassis



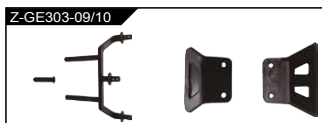
Suspension Arms and Hubs



Battery Door



Shock Absorbers



Front Bumper and Rear Support



Suspension Frame



Gearbox Case



Transmission Gears



Differential



Buggy Front Mount



Servo



Ball Links Long & Short



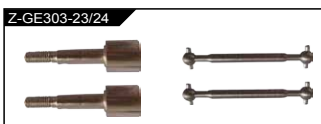
Hex Adaptors



Knuckle Spindle



Suspension Plate Front & Rear



Axle Shaft & Dog Bones



Transmission Shaft



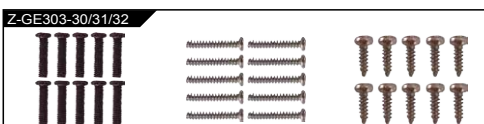
Suspension Pivot



390 Brushed Motor



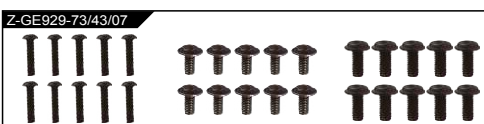
Screw Sets



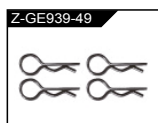
Self Taping Screws (3 Pack)



Bearing Set (3 Pack)



Screw Set (3 Pack)



R-Clip Set



Lithium Battery



Screws M2.5* x 15



Receiver Unit



Differential Drive Cups

Rough Racer Short Course Spare Parts



Self Tapping Screws (2 Pack)



M4 Locknut



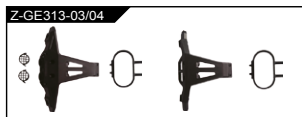
2.4G Transmitter



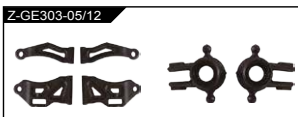
Tyre Set



Body Shell



Front & Rear Bumper



Upper & Lower Suspension Arms and Hubs



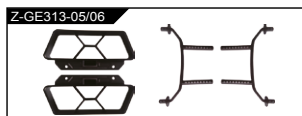
Battery Door



Shock Absorbers



Chassis



Front & Rear Support



Gearbox Case



Suspension Frame



Transmission Gears



Differential



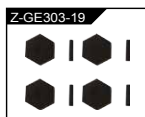
Front Mount



Servo



Ball Links Long & Short



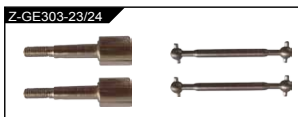
Hex Adaptors



Suspension Plate Front & Rear



Knuckle Spindle



Axel Shaft & Dog Bones



Transmission Shafts



Suspension Pivot



390 Brushed Motor



Screw Sets



Differential Drive Cups



Lithium Battery



Self Tapping Screws (3 Pack)



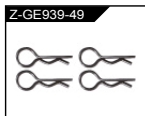
Bearing Set (3 Pack)



2.4G Receiver



Screw Set (3 Pack)



R-Clip Set



Screws M2.5 x 15

Rough Racer Monster Spare Parts



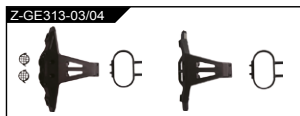
Self Tapping Screws (2 Pack)



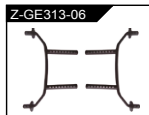
M4 Locknut



2.4G Transmitter



Front & Rear Bumper



Rear Support



Chassis



Upper & Lower Arms



Gearbox Case



Battery Door



Front Shock Absorbers



Tire Set



Body Shell



Suspension Frame



Steering Hubs



Transmission Gears



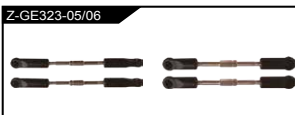
Differential



Front Mount



Servo



Ball Links



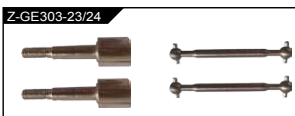
Hex Adaptor



Knuckle Spindle



Suspension Plate Front & Rear



Axle Shaft & Dog Bones



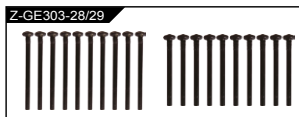
Transmission Shafts



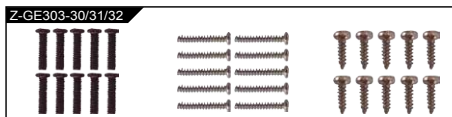
Front Suspension Pivot



390 Brushed Motor



Screw Sets



Self Tapping Screws (3 Pack)



Bearing Set (3 Pack)



2.4G Receiver



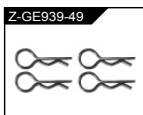
Differential Drive Cup



Lithium Battery



Screw Set (3 Pack)
























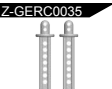




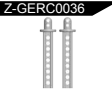













































R-Clip Set


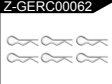





















































Screws M2.5 x 15

Across Rock Crawler Spare Parts

							
Chassis	Rear Axle Case P11	Rear Axle Case P12	Left/Right Arm	Arm lever B	Rear axle rod	Rear Suspension Arms	Rear Drive Sleeve
							
Front Left/Right Hubs	Left/Right Block C	Gearbox Case	Floor Board	Rear Drive Shaft	Bumper	Battery Holder	Battery layering
							
Dust Cover	Steering Connectors	Differential Planet Teeth	12T Drive Gear	Servo Mount	Servo Steering Arms	Flap	Body Mount Posts A
							
Differential Planetary Gears	Asteroid Differential Gear	Reduction Gear	Front Shocks	Body Mount Posts B	Left/Right Rear Suspension Frames	Left/Right Shell Column Brackets	Left/Right Lever Position Brackets
							
Rear Shocks	Steering Rods	Steering rod	Arm Lever A	Differential Case	Rear Axle Joints	Left/Right Rear Swingarm Brackets	Left/Right Pivots
							
Hex Adaptors	Wheel Hub	Wheel Hub Cover	Wheel Hub Plate	Motor Mount	Gasket 12 * 5.2 * 0.2	Shock Adjustment Ring	Shock Bracket
							
Sponge	Rollcage Left	Rollcage Right	Rollcage in A	M2 * 4 screws	Left Tyre Assembly	Right Tyre Assembly	Locating Pins
							
Bumper	Headlights	Rollcage Centre	Driver Helmet	Differential Shafts	Ball Screws 4.8*11.5	Ball C	Ball B
							
Receiver	Left Tires	Right Tires	Body Shell	Ball A	Axle Cup	Universal Bushings	Propeller Shaft

Across Rock Crawler Spare Parts

 Interior	 R-Clip Set	 Arm Bracket Rear	 Arm Bracket Front	 Drive Cups	 Drive Shaft	 Shaft Cup	 Reduction Pinion
 Rear Axle Pinion	 Gimbal	 Rear Axle Shafts	 Motor Gear	 Pan Head Screw M2.5*16	 Pan Head Screw M2.5*20	 Pan Head Screw M4*12	 Pan Head Screw M3*7
 Steering Damper Spring	 Front-Wheel Dive Shaft	 Front Differential	 Bearing 5*9*3	 Pan Head Screw M2*8	 Pan Head Screw M2*10	 Pan HeadScrew M2*12	 Pan Head Screw M2 * 20
 Bearing 8*12*3.5	 Bearing 7*11*3	 Bearing 5 * 11 * 4	 Screw M2.5*40	 Flat Head Screw M2.5*6	 Flat Head Screw M2.5*8	 Flat Head Screw M2.5*10	 Flat Head Screw M2 * 8
 Pan Head Screws M3*10	 Grub Screws M3*2.5	 Pan Head screws M3*14	 Dome Head Screws M2*8	 Flat Head Screw M3*8	 M.25 nut	 M4 nut	 25g Servo
 Pan Head Screw M2.5*8	 Pan Head Screw M2.5*10	 Pan Head Screw M2.5*12	 Pan Head Screw M2.5*14	 540 Motor	 Headlight	 Battery	 Battery Charger
 Dome Head Screws M2.5*8	 Transmitter	 Cup Spring	 Grub screws M4 * 4	 Dome Head Screws M2.3*8			

Warranty

All Ripmax products are supplied with the legally prescribed 24 month warranty. If you want to make a warranty claim please consult with your dealer directly as they are a great source of knowledge and will be responsible for handling and dealing with Ripmax on your behalf. We will work to correct any operating deficiencies in manufacturing or material defects that are not related to over or incorrect use. Further claims such as consequent damage are not included in the warranty.

You are responsible for the transportation of the product to an approved service centre. Prepaid shipments will not be accepted. We cannot assume liability for damage in shipping or the loss of your shipment. We therefore recommend an appropriate insurance.

To process your warranty claim please ensure the following:

- Please include a copy of your proof of purchase (receipt / invoice).
- You have used the product correctly in the non-commercial sector.
- You have only used the recommended power source and/or recommended accessories.
- The product is free of moisture damage, tampering, reversed polarity, overloads and mechanical damage.
- Please include a note with a concise report of the fault or defect to help our customer service team.

Disclaimer

We have no control over the use of this product outside of the parameters of the instructions regarding methods of assembly/installation, operation, misuse and poor maintenance of the product or it's components. Therefore, we assume no liability for any loss, damage or costs arising from the improper use/operation. Ripmax shall not be liable for any loss, consequential loss, damage or expense arising from the improper use or operation or in any way as permitted by law. Ripmax are only liable to pay compensation, regardless of the legal reason, an amount limited to the invoice value of product affected directly in the event of any damage occurred.

Made in China

Distributed to your local model shop by:
Ripmax Ltd., 241 Green Street, Enfield, EN3 7SJ. United Kingdom.

