



**TWISTY RIDE**  
— CHOOSE FREEDOM —

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**MOTORCYCLE IPHONE CASE**

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[www.twistyride.com](http://www.twistyride.com)

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## INTRODUCTION

Congratulations on your purchase and welcome to Twisty Ride! The waterproof iPhone case, its battlefield proven RAM® mount and optional battery charger (sold separately) have been designed by Twisty Ride in order to make GPS navigation accessible to all riders.

This document provides details over all components of the Twisty Ride iPhone case system and how they work together. If you have purchased only parts of the system please keep this in mind as you read through it.

Visit us at [www.twistyride.com](http://www.twistyride.com) to access our FREE motorcycle journey planner as well as a range of expert tips and specialised gear.

## WHAT'S IN THE BOX?

### WATERPROOF IPHONE CASE

The iPhone case is used to protect the iPhone from water projections and dirt whilst riding, and mount it to the motorbike. It is made of the following components:

- The case itself
- One iPhone 3G / 3GS footprint
- One iPhone 4 / 4S footprint
- One "cable plug" used to keep the case waterproof when the charger cable is not used.
- Three button plastic inserts.





iPhone 3G & 3GS  
footprint



1x cable plug  
plastic insert

iPhone 4 & 4S  
footprint



## MOTORCYCLE MOUNT KIT

RAM® is the leading manufacturer of ball mounts in the world. It provides a wide array of mounts specially adapted to the motorcycling world. RAM® mounts are used by the top manufacturers of GPS units for motorcycles.

Twisty Ride's iPhone case is compatible with a number of RAM® mount solutions. It is sold bundled with either a motorcycle or a scooter kit which covers the majority of models. However, due to the wide variety of motorcycles and scooters available on the market, it is important to check whether the standard kits will fit yours or other RAM® mount solutions need to be used (see "OTHER RAM® MOUNT SOLUTIONS" section).



## CLUTCH/BRAKE U-BOLT HANDLEBAR MOUNT (RAM-B-309-7)

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The RAM® combination handlebar and brake/clutch reservoir base provides the ultimate flexibility for mounting to your motorcycle. Mount to either your handlebar or brake/clutch, almost infinite adjustment and perfect viewing angles are provided by this kit.



Example: use this mount base on a Honda Pan European ST 1100 or 1300 on the Clutch or Brake Clamp.

## DOUBLE SOCKET ARM (RAM-B-201-A)

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The RAM-B-201-A, short double socket arm, has a socket at both ends that accommodates 1" ball bases. This socket technology allows for almost infinite adjustment and perfect viewing angles. It connects to the handlebar mount's ball.



## QUICK RELEASE MALE BASE (RAP-B-326M)

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Ezy Mount quick release male base with 1" ball. It connects on the other end of the arm presented above.



## QUICK RELEASE FEMALE BASE (RAP-326F)

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A quick release female base, part of the RAM® Ezy-Mount range. It is mounted to the iPhone case and allows it to be quickly fixed or un-fixed to the RAM® mount solidary to the motorbike.



## ASSEMBLING THE IPHONE CASE

### CAUTION

Extreme care must be taken when mounting the iPhone case on a motorcycle or scooter. Read this document carefully before mounting the iPhone case on your motorcycle or scooter. The iPhone case and its mount shall be mounted in compliance with the relevant legislation and the vehicle manufacturer's rules. Failure to mount the iPhone case or its mount correctly could result in damage to your vehicle and serious injury to the vehicle rider and other road users. The iPhone case and its mount are fitted on your motorcycle or scooter at your own risk. In doubt, always refer to a qualified professional.

### FIXING THE QUICK RELEASE ADAPTOR

The motorcycle and scooter RAM® mount kits come with a shared component called the “Quick Release Female Base” pictured below.



This component needs to be mounted at the back of the case as displayed in the picture below.



In order to do so, the RAM® base needs to be first inserted inside the emplacement located at the back of the iPhone case. This is a tight fit and will require applying pressure with the hand to click it into place. Once the RAM® base has been inserted keep it in position with your hand until the nuts have been tightened (see next step).



Mount  
emplacement

The next step is to secure the base with two Nyloc nuts and two bolts. Two lengths are provided with the kit, use the shortest bolts. Insert the bolts inside the case and through the base and place the nuts inside their hexagonal lodgings within the base. Then, using a Phillips style screw driver, tighten the bolts until the effort required to turn the screw driver rises sharply.



Heads of  
the bolts





## CHANGING IPHONE MODEL

Two footprints are provided with the case. One fits the iPhone 3G / 3GS and the other one fits the iPhone 4 & 4S (see below).



iPhone 3G & 3GS  
footprint



iPhone 4 & 4S  
footprint

1x cable plug  
plastic insert

Changing iPhone type is as easy as removing one footprint from the case and fitting the other. In doing so, all plastic inserts must be ported from one footprint to the other. This includes the cable plug insert (used to make the case waterproof when the charger cable is not used) and the three button inserts (see picture below).



## ASSEMBLING THE RAM® BRACKET

The motorcycle bracket comes in three parts which should be assembled as pictured below. To do so, unscrew the locking bolt until both ball heads can be fitted into the bracket. Once fitted, screw the locking bolt again. This bolt will also allow you to adjust the position of the mount on the motorbike and lock it into position.



Please refer to the documentation provided with the RAM® brake / clutch / handlebar adaptor in order to mount it on the bike. Adjust the mount by unscrewing the locking bolt, a large number of positions can be achieved this way. If the bracket has been mounted on the handlebar, further adjustments can be made by rotating the handlebar adaptor around the handlebar and securing it in position at a different angle.

Ensure that both the locking bolt and the brake / clutch / handlebar adaptor have been tightly screwed. Once done, the iPhone case can be clipped on the quick release male base by a simple push.



## POSITIONING THE IPHONE CASE FOR OPTIMAL VISIBILITY AND SAFETY

The following checks must be performed once the iPhone case and its bracket have been mounted on the on the motorbike or scooter:

- Ensure that the assembly does not restrict the movement of the handlebar. Swing the handlebar from side to side and see that the bracket, case

and wires from the charger do not catch onto the windscreen or any other item present on the bike. Note that in case you intend to travel with additional items such as a tank bag, this check must be performed with said items on the bike to confirm the bike can still be manoeuvred properly.

- Ensure that the assembly does not restrict any movements the rider may make whilst riding his motorcycle or scooter. This includes but is not limited to: movement of the wrists to accelerate and decelerate movements of the hands / fingers to operate the clutch or brake, movement of the body when turning, etc.
- Ensure that the assembly does not prevent a correct reading of the complete dashboard of the motorbike and scooter when the rider assumes its standard driving position.
- Ensure that the iPhone case is angled such that the screen is perpendicular to the rider's line of sight. This is to minimise any reflection from the screen and provide the best position to read the screen of the iPhone.

## SAFETY NOTICES AND WARNINGS

### USE WITH CARE

Use of the iPhone case and RAM® mount for navigation or other still means that you need to drive with due care and attention.

### MAINTENANCE AND SECURITY

Do not leave your iPhone device on view when you leave your motorbike. It may become an easy target for thieves.

Take care of your iPhone case and clean it correctly:

- Use a soft cloth to wipe the screen of your device; do not use any liquid cleaners.
- If your device gets wet, dry it with a soft cloth.
- Do not disassemble the case under any circumstances. Doing so will invalidate your warranty.
- Do not expose your case or mount to extreme high or low temperatures, which can cause permanent damage.

One of the main advantages of having an iPhone mounted on the bike is the ability to leverage some of the mapping and navigation applications readily available in iTunes. This section explores some, but not all, of these apps.

### IPHONE SCREEN ROTATION

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As you are riding a motorcycle, all applications will be tempted to rotate their screens when you take a corner. Thankfully, the iOS 4 firmware includes a rotation lock feature. Follow the procedure below in order to avoid this problem:

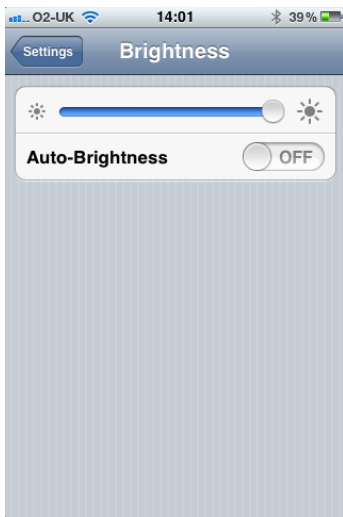
1. Double click the home button to bring up the multitasking bar.
2. Swipe right until the last set of icons is displayed in the multitasking bar (i.e your finger is moving from left to right).
3. The furthest left icon looks like a circular arrow - touch this icon to enable or disable rotation lock on the iPhone.
4. A rotation lock icon will appear in the status bar next to the battery charge icon when rotation lock is enabled. This looks like a circular arrow around a padlock.

When rotation lock is enabled apps will not respond to the accelerometer sensor.

## IPHONE SCREEN BRIGHTNESS

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In order to ensure the screen is visible in broad daylight, got to Settings and then Brightness on your iPhone and set it to its maximum value (as pictured below). Auto-Brightness should also be turned off. Note that this change of setting will increase the battery consumption of the iPhone.



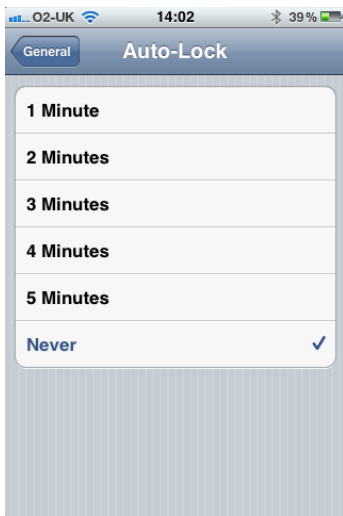
## IPHONE AUTO-LOCK

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To prevent the iPhone from automatically turning itself off and thus allow the rider to constantly see his position, the iPhone auto-lock feature must be turned off. To do so go to



Settings -> General -> Auto-Lock and set it to *never* (see screenshot below).



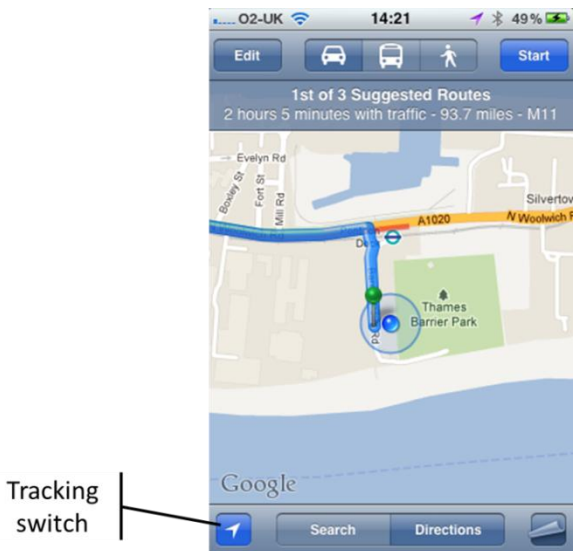
## MAPS APP

Free and already installed on the iPhone, the Maps app is an obvious first choice and can be used as a basic navigation system. The following tips must be followed to make the most out of this app.

## MAPS APP AUTO-TRACKING

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Once you have entered a route in the Maps application, tap once on the tracking switch to have the iPhone centre the map on your position in real time. The tracking switch has three modes: off (grey button), track position (blue button as below) and track position and direction (blue button with “beam” arrow). Either of the last two will allow you to track your position in real time.



Note that your iPhone must be constantly connected to the internet (3G connection) for this to work.

## TOMTOM APP

The TomTom application available for purchase on iTunes has a number of advantages over the more simplistic Maps application provided with the iPhone:

- It is a fully fledged navigation software which will, amongst other things, re-compute your itinerary should you take a wrong turn and provide detailed information about each junction. The Maps app does not do that.
- Once purchased, all the maps are stored on the iPhone meaning this application does not need to be connected to the data network to be used. This is particularly advantageous when riding outside of your country as keeping the cellular data turned on is prohibitively expensive.
- This TomTom application features a new “Winding Roads” mode which allows for more interesting rides with better sceneries and better corners.

## GARMIN APP

The Garmin app is another navigation application available for purchase on iTunes. The user will note that this application does not store its maps on the iPhone and therefore requires constant data access. This is limiting when riding abroad (high costs) or in areas with poor 3G coverage.

## OTHER RAM® MOUNT SOLUTIONS

### SCOOTER MOUNT KIT

The Twisty Ride scooter kit replaces the *Clutch/Brake U-Bolt Handlebar Mount (RAM-B-309-7)* with a *Mirror or Pinchbolt Mount (RAM-B-252)*.

The RAM-B-252 marine grade aluminium base consists of a 1" diameter ball and 2.25" x 0.875" base with 11mm hole. This part is often used on motorcycles and scooters, attaching to the mirror frame. This part fits well on many handlebar pinchbolts with a washer (base is 5mm thick).



### OTHER OPTIONS

The advantage of partnering up with RAM® for the mount of the Twisty Ride iPhone case system is that a complete catalogue of adapters is readily available to fit any and all bikes or scooters. The components below are just a few chosen examples of what is available. For more information please go to <http://shop.twistyride.com/>.

## CUSTOM MOUNTS

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For the discerned biker, bespoke versions of RAM® adapted ball parts are available through a specialist service. These are made to measure for the model of bike of your choice and will achieve the cleanest look of them all. For more information please go to <http://shop.twistyride.com/>.

## FORK STEM MOUNT (RAM-B-342)

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The RAM® fork stem mount is one of the cleanest ways to mount small electronics on your motorcycle or scooter. Simply slide the assembly into the hole of the stem and tighten the machine screw to create a tight fit.



This part is designed to fit into the cylindrical bore hole of fork stems and will work with stems that measure from 12-20 and 28mm or 0.5" - 1.10" at the following intervals:

- 12mm 0.5"
- 14mm 0.55"
- 16mm 0.63"
- 18mm 0.71"
- 20mm 0.79"
- 28mm 1.10"

Please note: It is NOT possible to use this part on bore holes of 21mm to 27mm.

If you have a sports bike and want a mount to fit into the centre yoke stem bore hole on your handlebars the yoke stem mount kit on this page is fine.

The mount is configured using parts determined by the diameter size of the inner bore cylinder. Check the size of the bore against the gripper washers in the kit. These are 12mm, 14mm, 16mm, 18mm, 20mm and 28mm.

This kit does not suit all bikes, for example, Honda Fireblade, Blackbird or any sports bike where a steering damper is attached.

Bikes that this will NOT fit include: Honda Fireblade CBR 1000RR, Blackbird CBR 1100XX, VTR 1000 SP2, VFR1200, Kawasaki ZZR 1100, ZZR1200, ZZR 1400,

Aprilia bikes, Ducati ST series, BMW S1000RR and any bike where a steering damper is fitted.

## RESERVOIR COVER BASE (RAM-B-345 OR RAM-B-346)

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The RAM-B-345 brake/clutch reservoir cover base fits cleanly over your existing reservoir cover with the 1" ball centered. Made of Die Cast aluminum with an over molded rubber ball, both form and function are unsurpassed. Installation is simple and all necessary hardware is included.



## TECHNICAL SPECIFICATIONS

### IPHONE WATERPROOF CASE

- Water resistant (test duration 5 mins, water volume: 10 litres per minute, pressure: 80–100 kN/m<sup>2</sup>)
- Resistance to temperatures ranging from -20°C to +70°C
- Compatible with the iPhone 3G, 3GS, 4 and 4S
- Compatible with any RAM® mount “diamond” base, including RAM® quick release adaptor
- Compatible with Twisty Ride’s power supply
- Allows usage of the iPhone’s front and back cameras through a purpose built openings in the case
- Allows usage of the power on/off and volumes buttons
- Does not interfere with the cellular, WIFI or Bluetooth signals emitted by the device

### CLUTCH/BRAKE U-BOLT HANDLEBAR MOUNT (RAM-B-309-7)

- Hardware: Standard or metric thread stainless steel bolts, provided in the kit. The zinc coated metal U-bolt accommodates rails in diameter from 0.50" to 1.25" in diameter.
- Material: Powder Coated Marine Grade Aluminium



- Ball Size: 1" Rubber Ball "B" Size

## DOUBLE SOCKET ARM (RAM-B-201-A)

- Dimensions:
- Overall Length: 2.38"
- Socket-To-Socket Length: 2"
- Material: Powder Coated Marine Grade Aluminium
- Ball Size: 1" Rubber Ball "B" Size

## QUICK RELEASE MALE BASE (RAP-B-326M)

- Material: High Strength Composite
- Ball Size: 1" Rubber Ball "B" Size

## QUICK RELEASE FEMALE BASE (RAP-326F)

- Material: High Strength Composite

## WARRANTY AND SUPPORT

### WARRANTY COVER

Twisty Ride Ltd (“Twisty Ride”) warrants to you that the Hardware will be free from defects in workmanship and materials under normal use (“Defects”) for a period of one (1) year from the date that the Hardware was first purchased by you (“Warranty Period”). During the Warranty Period the Hardware will be repaired or replaced at Twisty Ride’s choice (“Limited Warranty”) without charge to you for either parts or labour. This Limited Warranty covers the replacement of the Hardware only. If the Hardware is repaired after the Warranty Period has expired, the Warranty Period for the repair will expire six (6) months after the date of repair.

### EXCLUSIONS FROM WARRANTY

The Limited Warranty does not apply to normal wear and tear, does not apply when the Hardware is opened or repaired by someone not authorized by Twisty Ride and does not cover repair or replacement of any Hardware or part thereof damaged by: misuse, liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication. The Limited Warranty does not cover physical damage to the surface of the Hardware. This Limited Warranty does not cover any software that may

accompany or be installed on the Hardware. The Limited Warranty does not cover the installation, removal or maintenance of the Hardware or any costs related herewith.

## YOUR LEGAL RIGHTS

- Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.
- This Limited Warranty is the only express warranty made to you and is provided in lieu of any other express warranties or similar obligations (if any) created by any advertising, documentation, packaging, or other communications.
- Except for the Limited Warranty and to the maximum extent permitted by applicable law, Twisty Ride and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, including, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of lack of viruses, and of reasonable care and skill, all with regard to the Hardware, and the provision of or failure to provide support or other services, information, software,

and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware. This exclusion does not apply to (i) any implied condition as to title and (ii) any implied warranty as to conformity with description.

- This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.
- This Limited Warranty cannot be transferred to any other person.

## LIMITATION OF LIABILITY

- Neither Twisty Ride Ltd nor its suppliers shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment or access data, loss of data, loss of business, loss of profits, business interruption or the like) arising out of the use of or inability to use the Hardware even if Twisty Ride Ltd has been advised of the possibility of such damages.
- Notwithstanding any damages that you might incur for any reason whatsoever (including, without limitation, all damages referenced herein and all direct or general damages in contract or anything

else), the entire liability of Twisty Ride Ltd and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.

- Twisty Ride Ltd shall not be liable for (i) any fraud on the part of its employees and/or agents; or (ii) any fraudulent misrepresentation on the part of its employees and/or agents.
- Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.

## CE MARKING



This equipment complies with the requirements for CE marking when used in a residential, commercial, vehicular or light industrial environment.

## COPYRIGHT NOTICES

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Any reproduction of the Twisty Ride logo or name is governed by the laws standardized through the international copyright agreements.