

# INSTRUCTION MANUAL and WARRANTY



## Easi-PLUS - Kit 150

It is **very important** that you fully read and understand all of these instructions before installation and use.

**This system is designed for domestic motorcycle use ONLY.**

Kit 150 includes:

- 1001** Easi-PLUS (main control unit)
- 1153** Complete riders headset type A
- 1238** Standard phone lead
- 1307** Standard music lead

Full Instruction Manual



# CONGRATULATIONS

Thank you for choosing Autocom. Your **Easi-PLUS** is designed, built and **fully** tested to provide you with many years of very high quality use and performance if installed and used as described in these instructions. Please take time to read and understand these instructions and feel free to ask your Autocom dealer or call our help line if anything is not perfectly clear and understood. Telephone: +44 (0)1926 431249 (UK)

## SAFETY TIPS

It is very important to properly set up and use these products as designed. Please do not make any modifications or try to use your system with any non recommended products or in any other way than described. **DO NOT CUT OR MODIFY YOUR HELMETS.**

It is common sense and the law in some countries that the rider of a vehicle be in control at all times, which includes the ability to hear other road users warnings. As such the rider should not have the music volume so loud as to prevent this. **Safety** should always be your first priority and is ultimately the responsibility of the rider. Mounting the system on the bike is normally safer than having it on your person. Make sure that the quick release connectors are free to quick release in the event of an emergency. Do not fix or tape them together. You should only make adjustments while stationary, never while in motion. **Always focus your attention to riding and safety** and do not use the system in such a way as to interfere with this. The added ability to communicate with your passenger and/or other riders can improve safety, so become familiar with using the system to provide good advice and/or warnings etc.

## OVERVIEW

**Easi-PLUS** main unit (part 1001) is normally sold as **Kit 150** (solo) which includes a two part rider's (type A) stereo headset consisting of a main headset speaker harness (part 1120) and plug-in boom microphone (part 1109). You also get a standard phone lead (part 1238) and stereo music lead (part 1307), plus some velcro to help with some helmet installations.

Your **Easi-PLUS** is factory set and so all you need do is install the headset/s and power the main unit with either a PP3 9 volt battery or the optional 12 to 9 volt power lead (part 1533) included to enjoy phone and/or music while riding. If required, you can easily add any other part you may want to suit your needs, such as, a passenger headset etc. and adjust each headset volume independently to suit.

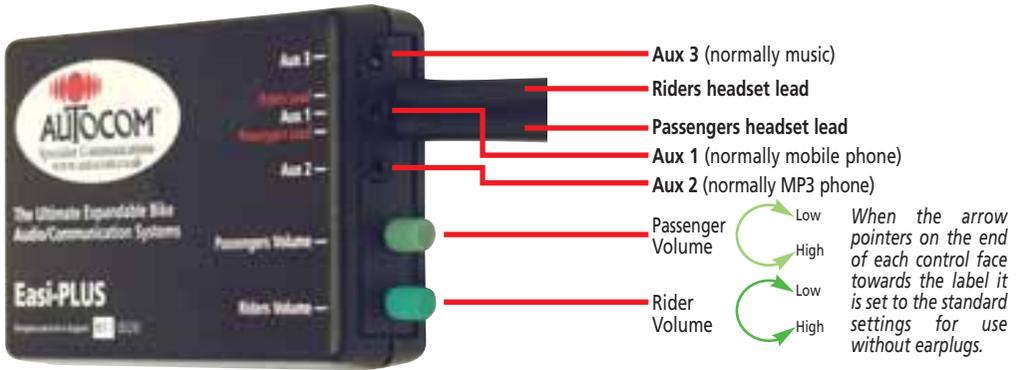
The control box is a specialist high quality audio/communications hub, allowing a rider, to interface with one or even two mobile phones, one or two stereo music sources, GPS and/or radar detector, bike-to-bike radio, and/or a passenger etc. simply by selecting the optional parts to suit your specific needs. It is designed and sold this way to save you costs as to include all possible parts/options for every potential way it could be used would not be practical or cost effective. Your Autocom dealer should be able to help you choose what parts you need.

Autocom systems are track tested under extreme speed and noise conditions where they demonstrate highly effective performance. If your system is not performing as you would expect or as we claim it should then the most likely cause is incorrect installation or use, in particular microphone and speaker positioning. These instructions have been designed to try to help you get the most out of your system, but if it does not exceed your expectations then we want to help. You are welcome to visit our factory any time Monday to Friday 09.00 to 17.00, and also Saturday mornings by appointment only. If you cannot get to our factory then please contact your local dealer or distributor, details available on our website: [www.autocom.co.uk](http://www.autocom.co.uk)

We hope you like this product and enjoy it for many years to come as much as we have enjoyed designing and building it for you.

Tom Beman MD  
Autocom Products Ltd





*When the arrow pointers on the end of each control face towards the label it is set to the standard settings for use without earplugs.*

## EASI-PLUS - MAIN CONTROLS AND CONNECTIVITY

### Independent Rider Volume Control

Colour coded (light green) for easy identification enables the rider to easily set the optimum volume for any conditions, including use with or without earplugs, or even custom moulded in-ear speaker (monitor type) earplugs.

### Independent Passenger Volume Control

Colour coded (olive green) for easy identification enables the rider to easily set the optimum volume for any conditions, including use with or without earplugs, or even custom moulded in-ear speaker (monitor type) earplugs.

### Additional Internal Adjustability

Your Easi-PLUS has been factory set to the optimum output levels required for most types of device you may wish to connect, such as phone or bike to bike transceiver etc, but in the unlikely event that you require more or less output level/s then these can be individually adjusted via internal adjusters, however we recommend that you contact your local dealer or refer to our website [www.autocom.co.uk](http://www.autocom.co.uk) for more details should you find you need to do this. Note that most devices you may plug in, such as a music system, phone, bike-to-bike transceiver etc will each have their own output level controls which you can set to suit.

### Selectable Side-tone

Neatly tucked away in the battery compartment to prevent accidental knocks you will find a small switch that allows you to select **side-tone** or not. **Side-tone** is usually preferred as it allows the user/s to hear their own voices when speaking and this helps you to always speak at the correct level irrespective of helmet noise, which helps prevent unnecessary shouting. If however you use the system at very high speeds in excess of 100+mph for long periods then you may prefer to switch the side-tone off. Please try both modes to discover which you prefer.



### Battery Compartment

For PP3 9 volt battery power (portable use) or connection of the optional bike power lead.

### Riders Headset Lead

1200mm long for connecting to the rider's headset.

### Passengers Headset Lead

800mm long for connecting to the passenger's headset.

### Aux 1 Socket (3.5mm x 4 pole)

Normally used for mobile phone connection via the lead supplied. Also has switchable power output so that recommended optional plug and play Bluetooth phone adaptors can be used and powered directly via this socket. This socket can also be used to interface GPS, radar, bike-to-bike radio or record out using appropriate optional leads.

### Aux 2 Socket (3.5mm x 4 pole)

Normally used for MP3 phone or music, but could be used for GPS, radar, bike-to-bike and/or record out using appropriate optional leads. Note: Music is reproduced in very high quality full rich mono to both ears of both headsets.

### Aux 3 Socket (3.5mm x 4 pole)

Normally used for GPS and/or radar etc but could be used to interface VOX or PTT bike to bike using appropriate optional leads etc.

Aux sockets 1, 2 and 3 can optionally be expanded for two or more connections each and have adjustable output levels. Note; you may require a personal hands-free adaptor block to suit some phones. For bike-to-bike transceivers and interface leads, plus special leads for GPS and radar etc., please see our full parts list on our website or contact your local dealer for full details.

## GETTING STARTED - PORTABLE USE

Having read this manual completely and checked any questions with your dealer, you should now be ready to remove the battery compartment lid and carefully connect a fresh PP3 9 volt battery to the battery clip. Set the **side-tone** switch to the **on position** and then replace the battery compartment lid, taking care not to trap any wires.

Remember that alkaline type batteries typically last about 5 times longer than cheap batteries. Note; the system remains automatically switched off unless a type (A) headset is plugged into the riders headset lead. If you intend using the optional bike power lead then please refer to our website for bike mounting information and tips.

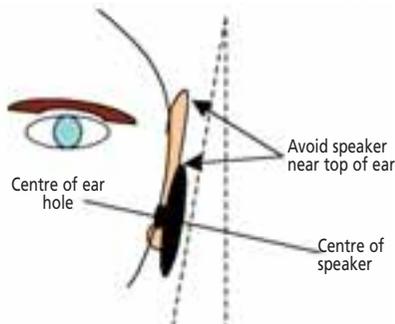
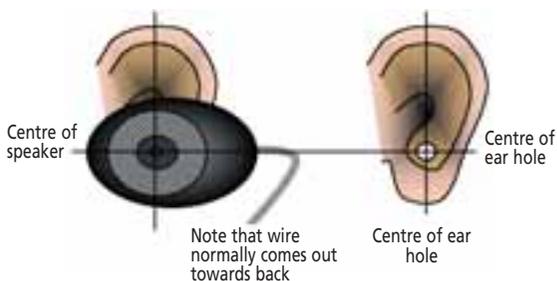
### BEFORE INSTALLING YOUR HEADSET/S

Part 1109 supplied is our most universal boom designed to fit most full face, flip front and open face helmets, although open face and some flip front helmets will require the optional open face conversion kit (part 1198) to prevent direct wind blast. The headset is not designed to work with  $\frac{1}{2}$  helmets (chip style) which normally require a longer boom and perhaps some additional padding to mount the speakers over your ears. Replacement consumable foam speaker covers (part 1197) and replacement consumable microphone coverings (part 1214) are available from your dealer. Part 1110 is similar to our part 1109 but is slightly longer (35mm or about  $1\frac{1}{8}$ "") for very large heads/open face helmets. Part 1111 is a short boom designed to velcro into the helmets chin bar (front fit). This can be useful in some flip front helmets and most full face helmets, but not normally suitable for open face helmets due to lack of chin bar.

It is important to know that if not used correctly you will be losing much of the superior quality and performance that Autocom headsets have to offer and what makes them by far the very best. It may take several attempts to get it right but when you do it will pay dividends in sound quality, performance and comfort. In order to fully understand the full potential of your Autocom system you need to hear it at its very best and only then will this give you a benchmark to work to during installation and adjustment. In order to do this you need to assemble the headset by plugging the boom microphone into the main headset speaker harness and then connect the headset to the rider's lead on the main control box, which automatically turns the battery power on. Make sure that the rider and passenger volume controls are set to their mid positions, such that the pointers on the end of each knob face the label, and do not use earplugs for this test. Note; **if you are going to use a passenger headset** then it is a good idea to assemble this and plug it in to the passenger lead and to get them to assist you with this test, as when it comes to checking their speaker positioning in their helmet only they can do this properly to suit them.

If possible try to create as much background noise as you possibly can, i.e. you may get someone to rev your bike engine if outside, or perhaps turn on a noisy vacuum cleaner etc. if in the house. If possible play one of your favourite pieces of music which has good quality rich sounding bass etc. through the system, via the stereo music lead supplied plugged into Aux socket 2. Adjust the music to a comfortable level using the volume control on the music system making sure that you plug into the music systems headset socket and not the line out socket or the volume control will not work.

Carefully move the speakers about over your ears so that the speaker centres are directly over the centres of each ear hole (note that each speaker is offset in its plastic housing and has a three pointed star under the foam covering so that you can feel where the centre of the speaker is, to help you find the speaker centre relative to your ear holes when fitted in the helmet). Apply slight pressure to the back of the speakers over your ears and the music playing through the system should almost completely drown out most if not all of the noise in the background. When you have adjusted the speaker positioning so that the music quality is at its very best and you can hear the least amount of background noise coming through, you have found the best possible speaker position and sound quality and so you now know what to aim for when installing your speakers into your helmet.



You will notice that moving the speakers just 6mm ( $\frac{1}{4}$ ") away from the ears or out of alignment can easily halve the volume and reduce the sound quality by letting in considerable external background noise, which will spoil the full potential of sound quality and performance, especially at higher speeds when out on the bike and the helmet noise becomes far more powerful. Correct speaker positioning is therefore essential and you will hear this during this test. It is also beneficial to speak through the system so that you get a measure for the speech quality and level when the speaker are correctly positioned, but in order to do this you first need to find, understand and use the microphone loud spot.

## MICROPHONE LOUD SPOT

Please first ensure that you have set the side-tone switch in the battery compartment to "on", so that you can hear your own voice when speaking through your own microphone. While speaking into the **beige side** of the microphone gently move it about while just touching your lips and project your voice through it, positively as if to someone 15 feet away (5 metres). You will discover a **LOUD SPOT** which produces the maximum sound level. Note; how just a few millimetres ( $\frac{1}{8}$ ") movement can greatly affect the level of speech.

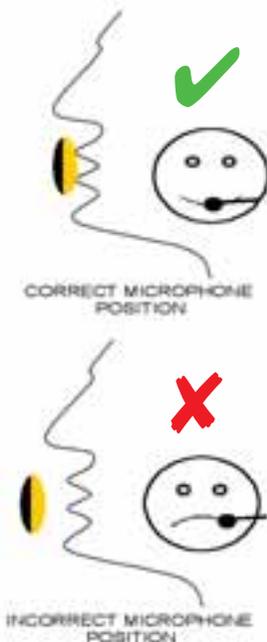
If you do not use the **loud spot** correctly the level of your voice will be greatly reduced and so you will struggle to hear at high speeds, especially when using high attenuation earplugs. It is therefore essential that you learn about and use this important **loud spot** as the system is tuned to it. You should not turn the volume controls up to compensate for not using this loud spot correctly as it will amplify more noise through the system than if you use the loud spot properly and turn the volume down. If the speech level is too loud then please turn it down using the volume controls on the main unit front panel and if required re-adjust the music level to suit using the music systems own volume control.

Listen to both music and speech carefully and try to remember the audio levels and in particular the quality of rich bass in the music, because after installation in your helmet/s you need to assess if the sound level and quality are as good as before, because if not you need to fine tune the speaker and/or microphone positioning until it is. Please use the same piece of music through the system and same level of exterior noise during both pre-installation and after installation tests.

### Top Tips

This may seem a strange way of evaluating and setting up the system but it really works and although your first helmet may take a little longer you will get it right and then all further headset installations should be much easier and quicker due to getting through this important learning curve. Do both the pre-installation test and the final test after helmet installation without earplugs so that you can hear the vast difference it makes in having your microphone and speakers positioned correctly. If you try this while using earplugs they will disguise much of what you are trying to hear, understand and achieve. **Avoid pressure directly to the front and back covers of the microphones as this could cause damage.** The microphone is floating in an acoustically dampening material to help prevent any helmet vibration being transmitted through the boom to the microphone as part of the noise cancelling measures. To move or adjust the microphone please hold it by the outer edges or rubber neck, making sure that the beige side of the fabric sits flat against and central to your lips.

**You must speak into the beige side of the microphone**



# HEADSET INSTALLATION

There are far too many different helmets to be able to fully describe every possible installation and so these instructions are designed as a basic guide only. Please see your local Autocom dealer or our website [www.autocom.co.uk](http://www.autocom.co.uk) for more detailed specific helmet installations. Please note; helmets that have straps that go directly over your ears do not lend themselves for a good headset installation, as the speakers have to sit either on top or behind the straps which can make them uncomfortable or reduce sound quality. This is beyond our control and if our speakers do not fit then nor will others. It is a good idea to remember this next time you choose a helmet. You can overcome this problem using optional in-ear speaker plugs that can replace the standard over the ear type speakers. Our optional part 1187 interfaces many in-ear speaker plugs to the Easi-PLUS. Some helmets do not lend themselves to be installed as we have suggested and may require alternative methods, so please take some time to consider these basic principles and your helmet design before installation. If you are unsure then please contact your supplier or Autocom for help and advice.



Please take a moment to study the helmet illustrations on the front cover and also those on page 7 and then your own helmet/s to see if you can establish any similarities that may help you with installation ideas. There are two main types of full face helmet designs, one is a one part chin and cheek pad design, per the illustration shown on the top right of page 7, the other type is a three part chin/cheek pad design per the illustration shown at the top left of page 7. Most full face helmets do not have the cheek pads glued in and are just a compression fit, which makes them much easier to remove (although some are quite tight). Put the helmet on and work out exactly where the centre of each **ear hole** is relative to the straps or any seams etc. in the lining, and also while doing this try to find and mark the exact location of the centre of your lips inside the chin pad with the helmet sat in its natural position. When you have established these positions within the helmet you are then ready to start the headset installation/s

Decide which side of the helmet you would prefer the lead to hang from and then release that side's check pad so as to allow you fit the boom and main speaker harness behind it, such that the boom comes up from behind the check pad and into the visor area, so that it can be bent down (from between the outer shell and check pad) in front of your mouth, per the illustrations. If required tape the boom and also the main harness down lead to the back of the cheek pad or preferably to the inside of the outer shell of the helmet.

Most helmets have pockets (indentations) in the lining by your ears, which let your ears fold back after they are folded over while putting the helmet on. Sometimes the fabric covering these pockets is glued back to the cheek pad forming a visible pocket, and other times the fabric is just stretched over the foam pocket and is not glued back. If the helmet has deep pockets and the fabric is glued back you may need to fit padding behind the speakers (like our optional foam speaker pads part 1203 which are about 6mm or 1/4" and part 1204 which are about 12mm or 1/2") these foam speaker pads have velcro fitted so that you can velcro the speakers to them.

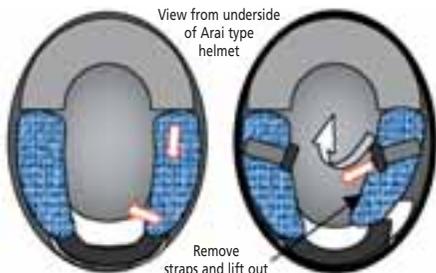
If the fabric is not glued back forming a visible pocket then it is easiest to just velcro the speakers on top of the fabric which can often work quite well in some helmets, but is more likely to cause your ears to fold over when putting the helmet on and so most people prefer a more professional installation where the speakers are set behind the fabric but on top of the foam/polystyrene behind. If you have time and can install the speakers behind the fabric like this it makes for a much more professional semi permanent fitment which is normally much more comfortable and this is how we would normally try to install the headset/s for you if you brought them to us.

## Top Tips

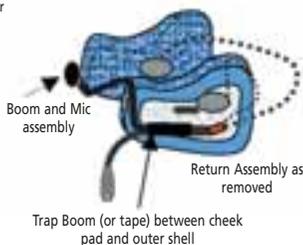
After first installing the headset/s into the helmet/s it is often beneficial to use something like a silk balaclava to help prevent your ears being folded over while putting the helmet on and off until you have fine tuned the speaker positioning for maximum comfort and performance. If for example your right ear is folded over after putting the helmet on you should immediately use your right hand to pull the right hand strap so that you can get your left hand fingers up into the right hand side of the helmet to flick your right ear back straight etc.

In order to be able to place the speakers behind the fabric you normally need to remove the cheek pads from the helmet. **Carefully** remove the cheek pads to reveal the back where the fabric is either glued back or taped back to the polystyrene. **Carefully** peel the fabric back **just enough** to slide the speakers into place (normally about level or just below the level of the hole for the strap and just behind the strap). Try to copy the illustrations on the front cover and/or page 7.

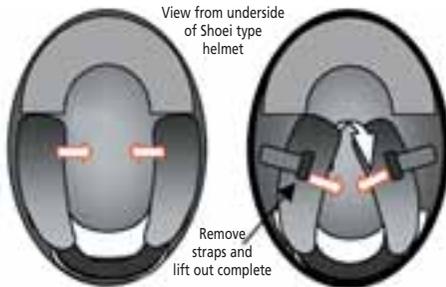
# Basic principle of how most helmets are made, come apart and go back together.



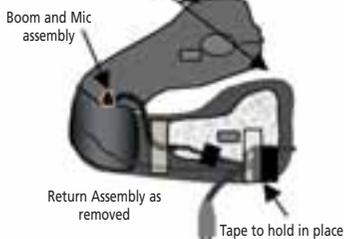
The fabric is either taped or elasticated over the polystyrene and so it is easy to install the speakers behind the lining. Note that the wire should come out of the speaker towards the back of the helmet.



When replacing the cheek pads, trap the boom between the outer shell and the inner cheek pads plastic tongue if it has one. Tape or glue if required. **Do not modify the helmet.**



Peel back tape and lining. Slide Speaker inside pushing it right up to the strap hole



## BMW System 4 Helmet Installation

Remove neck collar by pulling the back of the collar away from the helmet and slide both side guides out from retaining locators. Detach Velcro flaps (marked 'A' below) to expose the polystyrene ear cups.

Step 1

Thread boom (microphone first) under the chin strap but over the opened Velcro flaps (A). Locate speakers just below the polystyrene ear indents under the Velcro flaps (B).

Neatly tuck speaker cable under lining around the back of the helmet and below the neck collar retaining groove, out of sight (C).

Position headset down lead along the outer edge of the helmet under the Velcro flap. This may require additional Velcro to ensure security. Close the Velcro flaps and tidy.

Push the thin section of boom into the joint between the skull and cheek lining, under the chin strap. Locate the boom across the top of left hand cheek pad forming it to follow its contours. Hold boom down firmly and secure in place with Velcro or a suitable sticky backed material (D).

Form boom so that microphone is situated in-front of and just touching your lips in the centre. Check that down lead and boom are well secured and wires are tidily tucked away. Carefully check the opening and closing of the front of the helmet does not snag the boom or down lead.

Test the headset and reposition microphone and speakers if required. Refit neck collar.

Please note that due to the design of this helmet, positioning of the speakers is limited and as such it may not be possible to position the speakers directly in line with your ears. If this is the case one cannot expect the sound to be good when using earplugs.

Viewed from underside of Helmet with chin bar open and neck collar removed

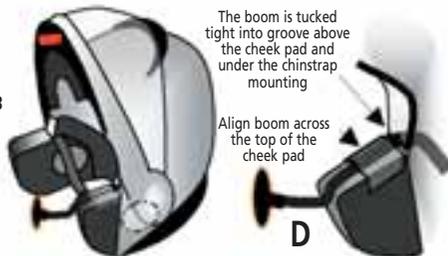
Step 2



Fit speakers in the ear pockets under the velcroed flaps.

Tuck speaker wire away around the back of the lining underneath the groove for the neck collar

Step 3



The boom is tucked tight into groove above the cheek pad and under the chin strap mounting

Align boom across the top of the cheek pad

# Warranty

If your supplier has not given advice or demonstration on how to set up or use our products, please check with them before sending any goods back for warranty.

All Autocom products are warranted for a period of 12 months from the date of original purchase, to the original purchaser, from an authorised Autocom retailer. This warranty covers faulty materials or workmanship, subject to the goods being used only as stated, and only for the purpose as described in the instruction manuals.

No manufacturer's warranty applies to the goods where they are used for any other purpose or in any other way than is explained in the instructions. Nor where the goods have been subjected to misuse, neglect or accidental damage, or used with any other vendor's products, including incorrect mechanical or electrical installation, or where the goods have been repaired, modified or altered, without the manufacturer's written authorisation.

The manufacturer's warranty is limited to the goods being returned pre paid to the manufacturer's factory, with the original packaging and the original proof of purchase date. The goods must be intact for our examination.

Where goods are accepted by the manufacturer, under the terms of the warranty, they will be repaired free of charge or replaced (at the option of the manufacturer). Where the goods are returned as faulty and are found not to be, a charge will be payable to cover costs of inspection, testing, packing and return postage.

This warranty does not cover any consumable items such as batteries, replaceable hygiene foam coverings for speakers and microphones, or any other items that are described within the instruction manuals as being a consumable.

**The manufacturer's warranty does not affect your statutory rights.**

PLEASE CONTACT YOUR SUPPLIER OR AUTOCOM FOR ANY FURTHER HELP OR INFORMATION.



**www.autocom.co.uk**

**We service what we make**

For details of Autocom's International distributors and support network, please see our website

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