



It is **VERY IMPORTANT** that you fully read & understand **ALL** of these instructions before installation & use

These parts are designed **ONLY** for use with Autocom domestic motorcycle communication systems

## INSTRUCTION MANUAL & WARRANTY for

### **Part 150.** (BFK-U) Universal Bike Fitting Kit

This basic fitting kit gives you the typical parts that are frequently required for installing an Autocom system to most types of bike. Please note that you may require some parts that are not included in the kit. This will depend on the bike you have and how you want the intercom fitted. Please check with your supplier for more advice. PLEASE NOTE all parts of this fitting kit are consumables and so have a limited warranty .

#### The kit includes

5	off		BLACK Tie wraps .
5	off		WHITE TIE wraps.
1	off	150mm	Hook Velcro (rough)
1	off	300mm	Loop Velcro (soft)
2	off		Black plastics clips.
1	off		Blue eyelet crimp terminal
1	off		Special electrical connector.(Fig 1 Part B)
1	off		Black self-amalgamating tape
1	off		3.2mm Black heat shrink tubing

**TIE WRAPS** Use these where required to hold any cables in place. Make sure that you do not crush any cables or tubing/breather/brake/clutch pipes on the bike by over tightening the tie wraps. Always cut the tie wraps off squarely, as cutting them at an angle can leave a sharp pointed edge that can cause cuts.

**Notes On Cables** . Extreme care should be taken to ensure that the cables do not fall into the chain, wheel or foul the steering etc. or be trapped or crushed by the seat or body panels. Pay particular attention to the seat locking mechanism, which, if fouled, could cause problems with removing the seat. If required, use some hard packing strips bonded in place either side of the cables, to prevent damaging the cables at any pressure points, such as where the cables come from under the seat between the tank or body panels. Avoid any sharp angles or edges that may damage or cut the cables.

**Velcro**. Cut one piece of hook and loop Velcro to about the same length as your intercom unit and use this to fix the intercom to a clean, dry area, normally under the rear seat of the bike. (Ensure all surfaces are clean and dry). If required use some of the remaining loop Velcro to cover any sharp edges, to protect the cables.

**Black clips**. These can be used to hold the rider & passenger headset sockets neatly in place on the bike. Make sure that the surface is flat, clean and dry before applying. Please note that the clips will tear off in the event of an accident. They can sometimes be refitted using some suitable double-sided tape/glue.

Your Autocom system either comes with, or requires an optional power lead/adaptor to connect to your bikes 12-volt supply. This power lead has two wires, one of which is RED (Positive +) and the other Black (Negative -)

### **CONNECTING THE NEGATIVE POWER LEAD TO YOUR BIKE.**

**Blue Eyelet Crimp Terminal** Is for connecting your black negative power lead directly to your bikes battery negative terminal. Position the main Autocom unit and lay all cables where you would like them to run and then try the system with the engine running, listening for any electrical interference (A whining noise, engine speed related is normally cause by the alternator, while a engine speed related ticking noise is normally related to HT spark plugs or leads). If required, move the main unit and/or cables to locations that help eliminate any bike interference. Once you are happy with your planned installation, fit the **Blue Eyelet Crimp Terminal** to the end of your black power wire (If required, trim the wire to the required length before fitting the blue eyelet crimp). Connect the blue eyelet to the bikes **negative** battery terminal. BE VERY CAREFUL WHEN WORKING WITH A BATTERY see your bikes hand-book/manual about working with the battery.

### **CONNECTING THE POSITIVE LEAD TO YOUR BIKE**

**PLEASE NOTE** if your bike has ABS braking and/or a brake light failure warning system you **MUST** consult your bike supplier or manufacturer for approval before connecting to the brake light circuit. If connection to the brake light circuit is not recommended, use some other **ignition switched** 12- volt supply, such as the rear tail light live feed or any other recommended fused, switch ignition point.

If you can connect to the rear brake light feed our special electrical connector (See FIG 1 Part B) can offer a very easy and quick, quality electrical connection to most bikes, BUT BEFORE DOING SO please check that the rear brake pedal only operates the brake light with the ignition on.

To use our special connector, follow the wire which runs from the rear brake light switch to where it connects into the bikes main wiring loom, normally by a two way block connector (See fig 1 parts A & C).

With the ignition switched off, unplug the connector and then plug our special connector (Fig 1 Part B) in line with parts A & C. When you have done this separate the two red wires, making sure that they do not touch any earth/chassis points and then turn the ignition on. Test to make sure that the brake lights work properly. If not, remove our connector and consult a motorcycle electrician or your dealer. If your rear brake light is working properly with part B connected in between parts A & C, proceed by testing which of the two red wires becomes live with the ignition switched on, being careful that neither wires touch the bike frame.

When you have established the correct wire, turn the ignition off and insulate the other wire using the heat shrink sleeve provided, as show in Fig 1. Do this by folding the end over about 12mm (1/2 inch). Slide the heat shrink over the end so that it completely covers the bare end, and then apply heat until it shrinks down. Then solder the intercom's positive (RED) wire to the live lead of part B and then insulate and seal the solder joint with part of the Black Self Amalgamating tape.

Note, if you connect to the wrong wire, the intercom will only work when the rear brake pedal is operated, in this case you must disconnect and connect to the other wire.

**150mm Black self amalgamating tape.** Use this tape to insulate and seal electrical joints. Cut to required length (allowing for the fact that it will stretch about 50% when applying. Carefully wrap it around the joint, stretching it around the joint. The benefit of this special tape is that unlike ordinary electrical sticky tape this tape has no sticky glue, which often breaks down when it get hot. Instead this special tape will weld itself into one piece of rubber within about 30 minutes. By stretching it around the joint it will provide a permanent water/air tight seal, which can easily and cleanly be removed at any time.

## General Tips

Before you install the system, study the bike and assess the best location for the control box and the routes for the cables, (usually under near the tail lights). Before you finally install the system you should connect the power and plug in a headset and test the intercom with the engine running to make sure that it is not picking up any undesirable interference. As you position the intercom and each cable you should give the engine a few revs to check for any interference. If any H.T. ignition or alternator electrical noise is present, move the intercom and /or cables to a location where there is no interference. When you have done this you can start fixing the box and cables properly in place.

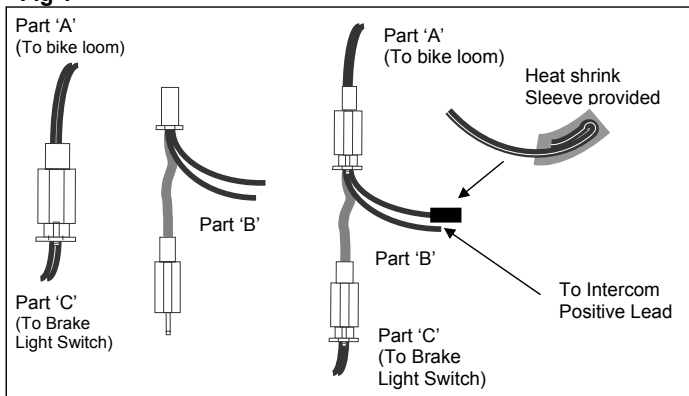
Avoid areas of high heat such as engine & exhaust.

Avoid ignition coils and H.T. leads (causes engine speed related interference). Avoid other electrical cables, especially the regulator and ignition box and alternator (causes whining/engine speed related interference)

Avoid areas where the control box may get extremely wet, in particular where water may be under pressure, such as in the front of the fairing or by spray from the wheels and jet washing. Apply an additional water protection to stop direct heavy water contamination. Also try to mount the box in such a way that any moisture will run off and not into the sockets/connections.

Normally the rider's lead will follow the bike frame and come out in between the seat and tank. If you like, use one of the black clips provided to hold the socket in place on the tank. Do the same with the pillion lead so that it comes out near the back of the seat, to one side (normally LHS) near the grab handle?

**Fig 1**



**Part B MUST be connected ONLY to an ignition switched, fused power supply on you bike. NEVER connect directly across the bike battery, which could cause severe damage and a risk of fire/burns etc. If you have any doubts you should consult a qualified auto electrician.**

# 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, against 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, an inspection, testing and return postage and packing charge will be payable.

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

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

PLEASE CONTACT YOUR SUPPLIER OR AUTOCOM FOR ANY FURTHER HELP OR INFORMATION. We service what we sell

### **UK Manufacturer & Distributor. Autocom Products Ltd.**

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If you need support in any country not listed, please contact Autocom UK.