

Install guide for Suzuki Intruder ES12BS and ES14BS Battery Adapter Kits

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Firstly, thanks very much for purchasing this Steiger Performance Battery Adapter kit for your Suzuki Intruder! If you run into a problem or have any questions or comments, feel free to contact me via e-mail at jon@steigerperformance.com or snail mail at Steiger Performance, 836 King Road, Forestville, NY 14062.

This Battery Adapter kit consists of two brackets (one red, one black), two round head machine screws, two flat head machine screws, four flat washers, four lock washers, and a rubber cover. The brackets are powdercoated steel, the flat washers are brass and the remainder of the hardware is 18-8 stainless steel.

The bike pictured in this document is a 1996 VS1400 with CruiserMagic2 pipes. However, installation on other model years or bikes with stock exhaust systems should be similar. I highly recommend reading through these instructions prior to actually working on the bike so as to completely familiarize yourself with the procedure. Although the battery shown being installed in this document is an ES12BS, the procedures are the same for the ES14BS. The only difference is that the ES14BS is slightly taller and therefore brackets for that battery are slightly shorter.

Note: A full color version of this document is available in Adobe PDF format at <http://www.steigerperformance.com>

Tools required: Phillips head screwdriver, 10mm socket or wrench, pliers (all of which are included in the standard toolkit)



Pictured at left is the hardware included in the kit. The electrical contacts have been protected by a coating of dielectric grease. You can remove the excess prior to installing the adapters, but leaving some grease in place will help to ensure a good electrical connection.



The Intruder's battery is located in a box just forward of the rear tire, as shown in the picture to the right.



First, we must remove the old battery. To do so, use a Phillips head screwdriver to remove the screws holding the plastic battery box lid in place (there is one on each side), then slide the lid out of the bike from the right. There are slots in the front of the lid for the battery cables to pass through, so it will probably be necessary to work those out of the way prior to being able to slide the lid out.

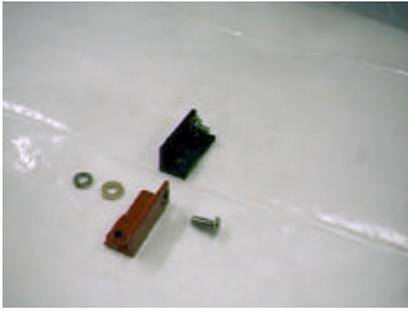


Use a Phillips head screwdriver to disconnect the negative and then the positive cables from the stock battery. Remove the two bolts from the lower front sides of the battery box using a 10mm socket or wrench, as shown at left. The bottom of the box will open, allowing the battery to be dropped down (gently!) and slid out from under the right side of the bike.

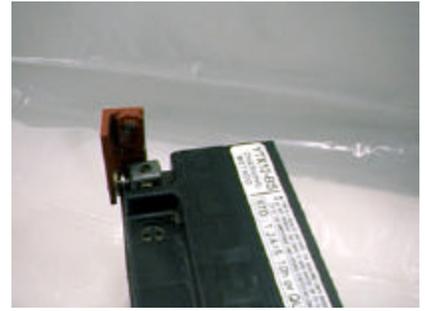
The picture to the right shows the height difference between the stock battery (left) and the ES12BS battery (right).



(over)



To give the replacement battery the same geometry as the stocker, install the brackets on the new battery. The red bracket goes on the positive terminal and the black on the negative. To mount a bracket, insert a flat head machine screw into the countersunk hole, then slip a flat washer and a lock washer onto the screw prior to attaching the entire assembly to the battery terminal. (The screw will thread into the rectangular terminal nut that comes with the replacement battery.)



Pictured at the left is what the battery should look like with both brackets mounted. The countersunk holes will be at the bottom front and the threaded ones at the top, facing out to the sides.

The picture to the right shows how the rubber cover should be positioned on the battery. In order to hold the cover in place while I took this picture, I wrapped a piece of tape around the cover and battery. You can do the same or you can just hold it in place by hand as you insert the battery into the bike. There are two “wide” sections of the cover; one is about 6” long, and the other is slightly less than 5” long. The longer section should be at the back of the battery, covering the flat head screws and coming part way up the brackets. The narrow section of the cover goes over the top of the battery and the shorter “wide” section then flaps down to cover the front of the battery. The purpose of the cover is twofold; the layer of rubber between the brackets and the battery box insulates the flat head screws and brackets, eliminating the possibility that they will touch the box and short out; also, the extra layers of rubber on the front and back of the battery will create a tight fit to prevent the battery from moving around while you ride.



The stock battery cables have a tab at the end which is bent approximately 90 degrees. In order to attach the cable to the battery adapter brackets, it will be necessary to straighten out those tabs. A pair of pliers will do the trick.

The round headed machine screws will be used to connect the battery cables to the adapter brackets. Slip on a lock washer and then a flat washer before inserting the screw into the hole in the cable.

Slide the battery under the bike from the right, then lift it up into the battery box. Close the hinged bottom of the battery box, and secure the two 10mm bolts. Attach the positive and then the negative battery cables to the brackets. Re-install the plastic battery box cover. Note that when you tighten down the cables, the turning force of the screwdriver will tend to rotate the negative battery cable down and the positive cable up, which can make it difficult to install the plastic battery box cover. While tightening the screws, hold on to the cable to ensure that they extend straight out from the brackets, as pictured to the right.



Congratulations; you're done! Enjoy the new versatility of your Intruder! 😊

Notes: Be sure to fully charge the new battery prior to using it in accordance with the instructions included with the battery. I recommend using a charger designed for motorcycle & ATV batteries, which will charge at around 1.2 amps. The Deltran Battery Tender is a nice unit that also maintains your battery with a trickle charge. While installing the new battery, be careful not to accidentally short it out by creating an electrical path between the two poles - the Intruder's battery box is metal. Should any direct or indirect damage occur due to the use or misuse of this product or these instructions, the liability of Steiger Performance shall be limited solely to the purchase price of the battery adapter kit itself.