



Airhead Instrument Lighting  
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## KATDASH *GS*

**This unit will fit all R65 GS, R80 G/S, R80 GS, R100 GS from 1980-1990 and 89-90 R100GSPD.  
If you have the 5 square socket dash as in the photos, this unit will fit.**

*BEFORE* you remove your front headlight and dash housing to install your new KATDASH, *LOOK* at the vertical joints on each side, and the seams around the speedometer, and where the front and back joint fits at the top. Get an idea of how *YOUR* plastic has been fitting for the last 20 years, so that when you put it back together, it fits the same way. Photos with your phone are an easy reference.



FYI: *left*, and *right* side indications in these instructions are in relationship to the Bike, facing forward.



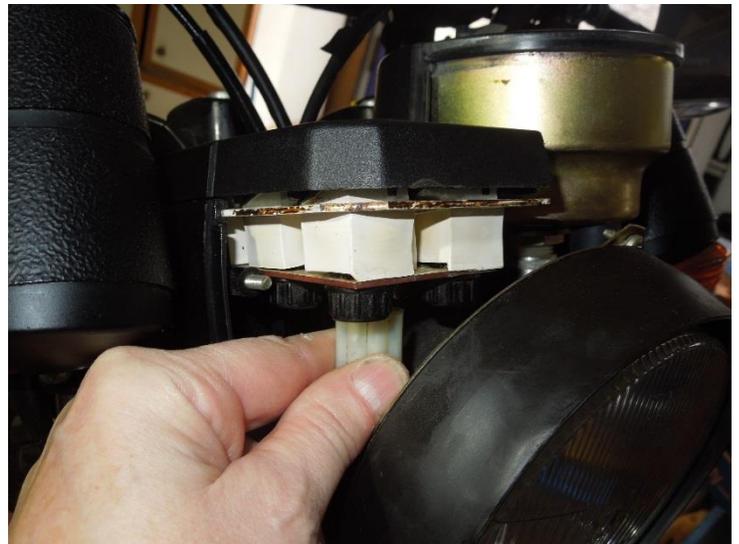
Left side



Right side

To remove the front of the headlight & dash housing, there are 4 phillips head machine screws in the back of the headlight housing. The screws are inset a couple of inches, so you have to insert the screwdriver and feel for them. The locations are shown in the photos above. (all of these photos were taken on a 1989 R100GS)

Unscrew and remove the front of the housing. Loosen the screws evenly, back and forth from both sides. Oem housings seem to have captive screws, so just unscrew until the front loosens up and comes off. The Siebenrock repro has loose screws, so catch them when they fall out.



Unplug the telltale electrical connector- the white circular plug.

Now you need to slide the telltale assembly forward out of the back of the housing. The problem is, the top cover is still on, and it's curved to fit around the back of the speedo. The top cover snaps into the telltale frame with 3 posts- and they are *very difficult to remove!* The holes in the telltale are smaller than the ends of the snap posts, so it's usually better to try and remove the telltale from the housing with the top cover still installed. It's very common to have a cover glued or gooped on because 1 or more of the snap posts is broken.



The way to do this is to gently flex the right side of the rear housing out, as you rotate the telltale, and angle it slightly to get the right (square) side of the telltale up, out of the groove it's mounted in.

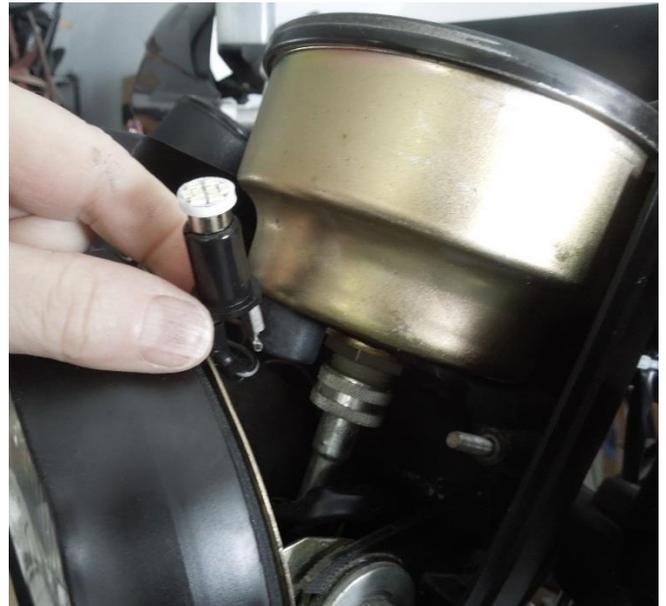
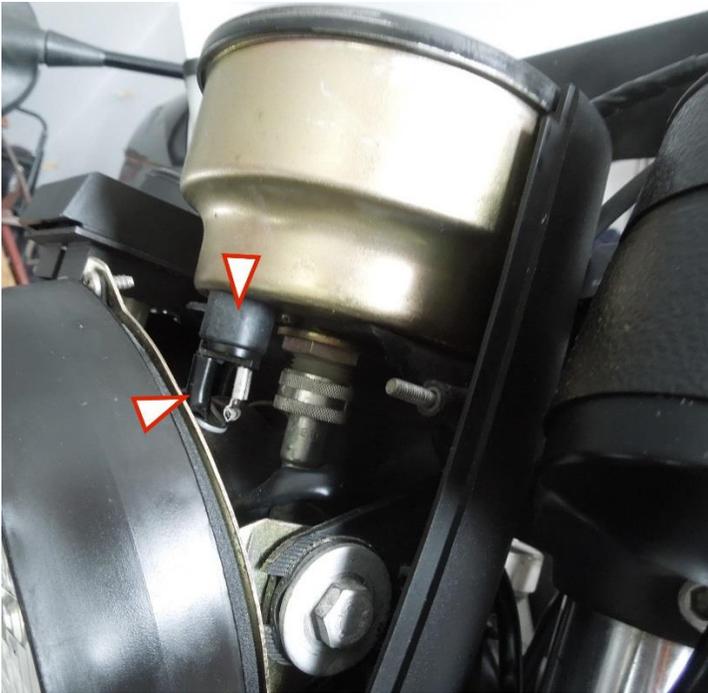
The key switch is still connected, so just pull the telltale assembly forward enough to use a pin wrench to loosen and remove the lock ring. (I got mine from Amazon: JW Winco A40618 w/ 3mmØ pins)



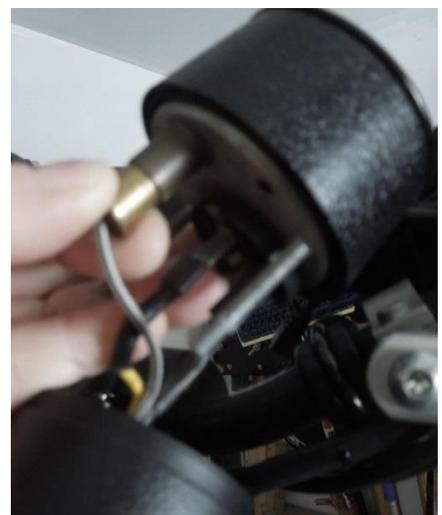
Now that you have your oem telltale & cover disconnected and removed, you can take it to your work area and continue.

\*\*\* replacing gauge bulbs with led bulbs\*\*\*

If you have also purchased new led bulbs for your Speedometer, voltmeter, and tach- now is the time to install them. Access to the small side gauge pods is MUCH easier with the front of the housing off.



Above: speedo light socket. Just pull down to remove. Insert new led bulb, press and ¼ turn.



Above: installing the small led bulb in the voltmeter and tach. Remove the plastic bolt with an allen wrench. Slide the bottom cap down the wire. Lift the gauge up from the top of the pod, and access the brass socket in the back with the light bulb. Slide it down and out. Press and ¼ turn to remove the old bulb, and install the new led bulb. Put the pod back together in reverse. Before you tighten the plastic bolts- make sure the gauge is facing forward/ look at the face from the top.

## Resuming the new KATDASH GS telltale install

Clean the telltale mounting slots in the front and rear of the housing. Mine were full of grit. All the dirt & grit act like sandpaper and wear the edges of your telltale frame down.



Clean the telltale plug with deoxit (or any good electrical contact cleaner) and brushes. Please do not googe your plug up with di-electric grease. Di-electric grease insulates and *interrupts* electrical current.



**Section A:** *If you are only installing a new led circuit board in your oem telltale*



oem bulb pcb in oem telltale w/ cover



KATDASH GS pcb in oem telltale

Remove the 2 small phillips screws in your oem bulb pcb. Slide the pcb slightly to down/ under the edge clip, and lift the oem bulb pcb off of your oem telltale. (It's not necessary to remove the top cover)

Get a cotton swab and clean the inside of your telltale lenses and their compartments. Just warm soapy water is fine. Rinse and dry.

Your new KATDASH GS led pcb will slide under the oem edge clip, but there will be a small gap along the side- the new led pcb is slightly narrower. Your new pcb comes with 3 new SS screws.(1 extra) Install 2 of them in the oem locations as shown above. When you are installing the new screws, it's a good idea to do a backwards turn first- this sets the screw in the existing threads in the plastic. Then snug the screws in. It's not necessary to tighten them down hard. Remember: old plastic is brittle!

Please see [Section B](#) to re-install your telltale assembly.

### **ABOUT TOP COVERS**

As mentioned earlier the oem top cover snaps into the telltale frame with 3 posts- and they are *very difficult to remove!* How you proceed with this install is different based on whether you are re-using your oem top cover, OR installing a new Siebenrock repro top cover.

The Siebenrock top cover has a flange at the key switch. This flange will lock the cover on with the lock ring around the key switch. Our new KATDASH telltale assembly has the snap holes for either cover to actually snap in, and also snap out as well. If your oem top cover is glued on, (like mine is) or has broken snap posts and fits loosely- you need to replace your top cover with the Siebenrock repro. We sell them on our Katdash website.

Whatever combination of covers and telltales you have, you have to analyze YOUR installation order. The key switch lock ring is MUCH easier to tighten with a pin wrench when it's not next to the handlebar and speedo column. But it's more difficult to visually align the telltale with its grooves in the housing with the top cover installed.

If you are re-using your oem top cover, you now need to remove it from your oem telltale. Good luck. I've been able to separate a cover by *very carefully* prodding/pushing the individual posts with a tiny flat bladed screw driver. It's not easy and you're likely to break something. I prefer not to disturb them.

## **Section B: Installing a new KATDASH GS complete Telltale assembly w/ led pcb**

Basically there are 3 options:

1. **Installing an oem telltale with oem cover not removed:** Install the key switch and tighten lock ring BEFORE you install telltale assembly in the rear housing groove. You will have to rotate and angle the telltale & cover assembly into the rear housing groove- the reverse of how it was removed.
2. **Installing a KATDASH telltale with oem cover:** You can install the new telltale without the oem cover snapped on. Install the key switch and tighten lock ring BEFORE you install telltale assembly in the rear housing groove. Then you can slide the telltale *without* the oem cover straight into the groove, and install the front housing. Then snap on the oem top cover (without key flange) at the end.
3. **Installing a KATDASH with new Siebenrock cover:** Snap the new cover onto the new telltale. Install the key switch and tighten lock ring BEFORE you install telltale assembly in the rear housing groove. You will have to rotate and angle the telltale & cover assembly into the rear housing groove- the reverse of how it was removed.

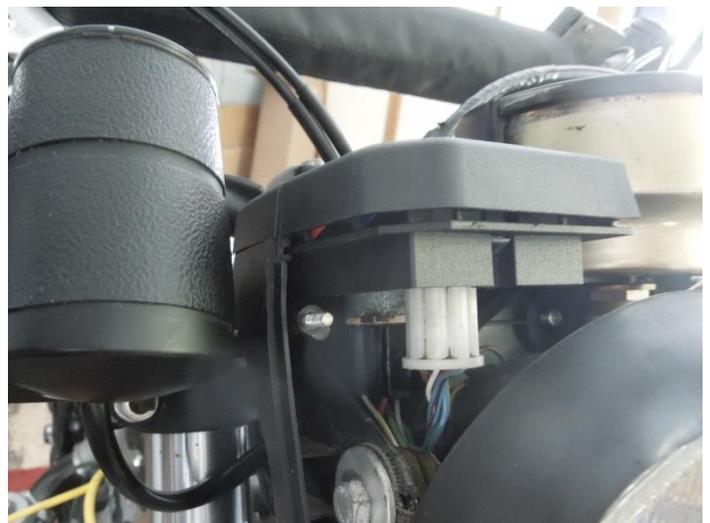
The key switch is installed with the keyhole pointing to 2 O'clock

Adjust your installation as required, depending on whether or not you are replacing your cover.

**NOTE:** If you are assembling in a new Siebenrock reproduction headlight housing- the groove for the telltale is much tighter than the groove in the original housing. The new Katdash telltale will fit, but it will be snug. We have both assemblies in our office for testing.

### **Option 1 or 3: installing with the cover snapped onto the telltale:**

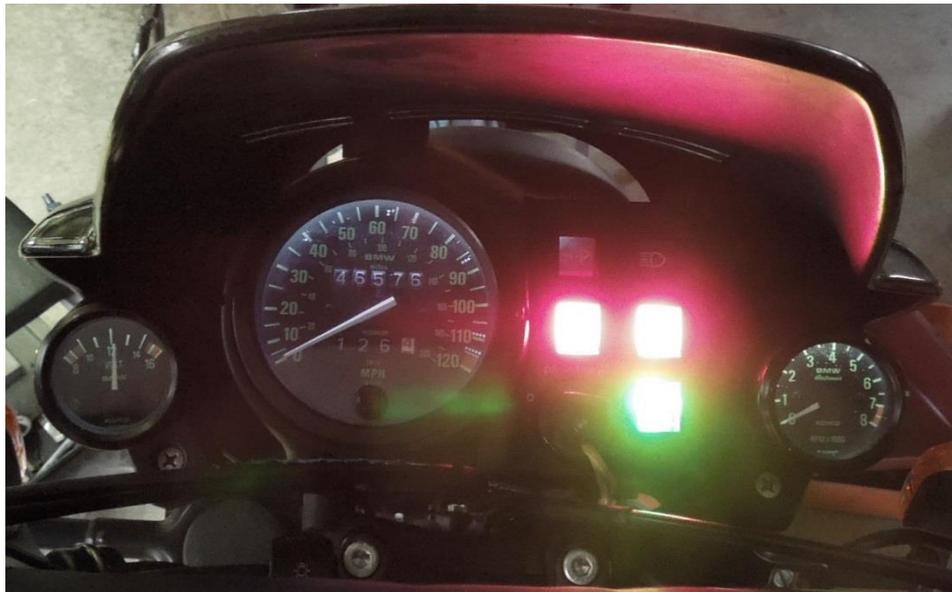
First, insert the key switch from the bottom. The key hole should point to 2 o'clock. Install the lock ring and hand tighten with your pin wrench. Now slide the telltale frame into the slot in the rear housing. (You cleaned the dirt out of the slot- right?) You will start with angling it slightly, then flexing the side of the housing to align the telltale frame as you rotate it into the mounting slot in the housing.



Examine it carefully to make sure the telltale is in its slot on both sides and the back or the rear section of the housing. Plug in the 8 pin connector plug. (It has a half circle alignment pin at the center of the plug.)

Now you bring the front of the housing and align the telltale slot with the telltale assembly, the speedo column and the headlight. It's difficult to see where the slot is with the top cover on. Especially if you have the side pods with the tach & voltmeter. When you first get the front housing aligned, and have just started the 4 screws, you should be able to slide the telltale and cover assembly forward and back in the slot. This tells you that it is IN the slot. You can also look at the sides of the housing, to see where the housing mounting bolts are, and align the front housing by looking through the side gap. Keep checking at the top with the telltale assembly, to make sure it's in the slot. If you get the front housing pulled back in half way, and your telltale assembly won't slide back and forth, or the front of the housing doesn't seem to be aligning with the telltale top cover- then something's wrong. You'll have to loosen it all up, and start again. Don't forget to check your headlight gasket, and make sure it's properly positioned, and not folded or stuck. (I use a popsicle stick). Get the right side of the housing started first, then turn the handlebars and start the left side.

Keep checking that you have the telltale slot, and the speedo column joints, and the headlight all lined up. Tighten the screws evenly on both sides, working back and forth as the screws pull the front of the housing back in. Keep watching the vertical joints and the right side joint at the telltale, as you pull it in. Be sure to check the side seams and the bottom seam to make sure everything is aligning properly.



When it's all back together, turn your key and check that your GEN, OIL and Neutral lights all come on. All our KATDASH boards are checked electrically to be fully functioning when we assemble them.

Now, go out for a ride and enjoy your new dash lights!

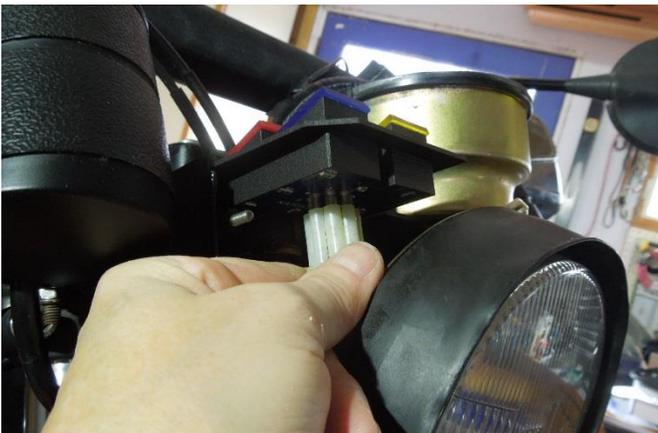
## Option 2: installing a new KATDASH telltale with an oem cover:

OK, you've managed to remove your original top cover from your old telltale. It still has all 3 snap posts intact, and you didn't cut off the snap heads in the removal process. Congratulations! Now to put it all back together.

First, insert the key switch into the new Katdash telltale from the bottom. The key hole should point to 2 o'clock. Install the lock ring and hand tighten with your pin wrench. Now you can slide the telltale frame straight back into the slot in the rear housing. (You cleaned the dirt out of the slot- right?)



Examine it carefully to make sure the telltale is in its slot on both sides and the back. Plug in the 8pin connector plug. (It has a half circle alignment pin at the center of the plug.)



Now you bring the front of the housing and align the telltale slot, the speedo column and the headlight. Start the 4 housing mounting screws- making sure to keep the front housing aligned properly with the telltale. You can also look at the sides of the housing, to see where the housing mounting bolts are, and align the front housing by looking through the side gap. Keep checking at the top with the telltale assembly, to make sure it's in the slot. Don't forget to check your headlight gasket, and make sure it's properly positioned, and not folded or stuck. (I use a popsicle stick). Get the right side of the housing started first, then turn the handlebars and start the left side.

Keep checking that you have the telltale slot, and the speedo column joints, and the headlight all lined up. Tighten the screws evenly on both sides, working back and forth as the screws pull the front of the housing back in. Keep watching the vertical joints and the right side joint at the telltale, as you pull

it in. Be sure to check the side seams and the bottom seam to make sure everything is aligning properly.

Once you have the front cover re-installed, you can now snap on your oem top cover. It should snap right down into the mounting holes in the new telltale.



When it's all back together, turn your key and check that your GEN, OIL and Neutral lights all come on. All our KATDASH boards are checked electrically to be fully functioning when we assemble them.

That it. Enjoy your new dash lights!

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