



Replacing The Gear Indicator Circuit Board On A K Bike

The LCD gear indicator and its circuit board in the K bike instrument cluster are a standalone part (part # 62111459238) which can be replaced. This document will show you how to replace it.

Once you've removed the instrument cluster from the bike, remove the nine Phillips screws around the perimeter to take off the back plate. (Seven screws on 85 and earlier K100s.)



Then remove the six Phillips screws that secure the “guts” to the front housing.



Now turn it over, pull the trip odometer knob out about 1/4" and carefully shake the guts out of the housing. The trip odometer knob does not need to be fully removed as there is a notch cut out of the speedometer faceplate for it to pass through.



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Next remove the two slot-headed screws the secure the GPI (gear position indicator) circuit board.



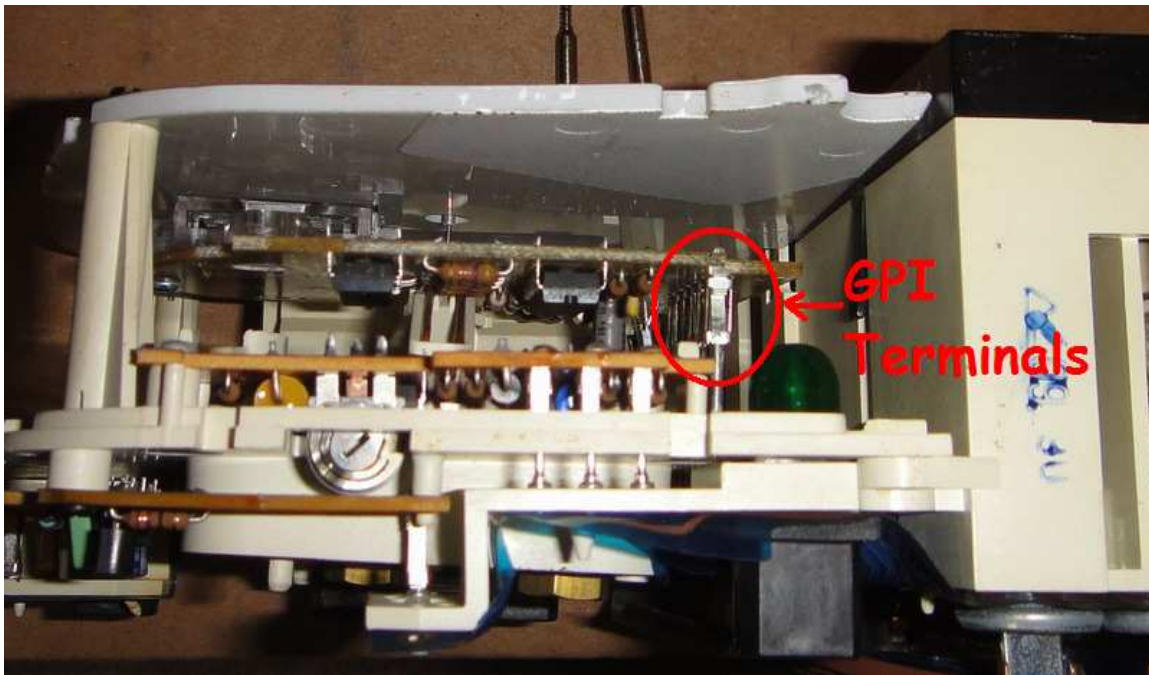
Once those screws are removed, you can remove the white plastic spacer from the side.



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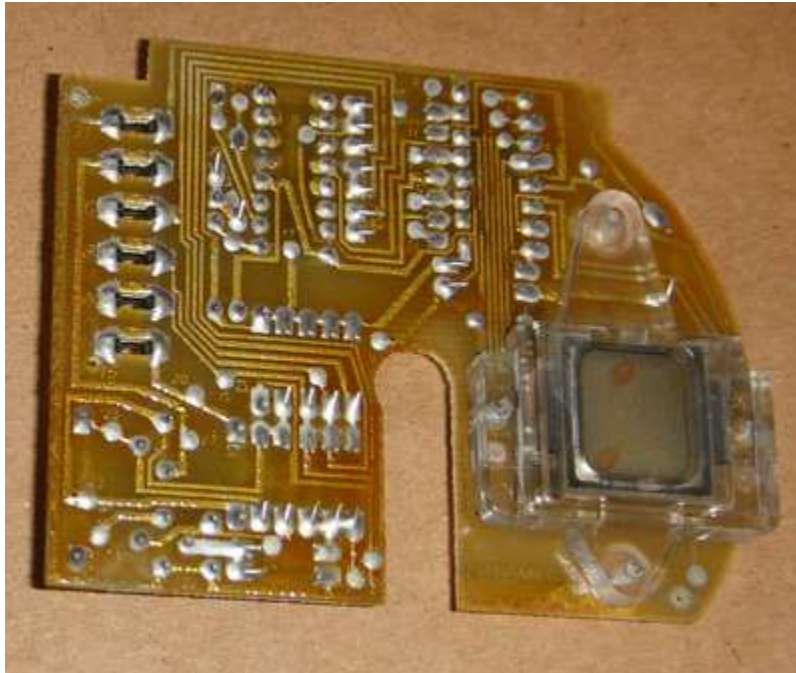
It's a little tricky and requires some wiggling but it is possible to push the terminals off of their pins and get the GPI board out without having to remove the tach needle and faceplate.





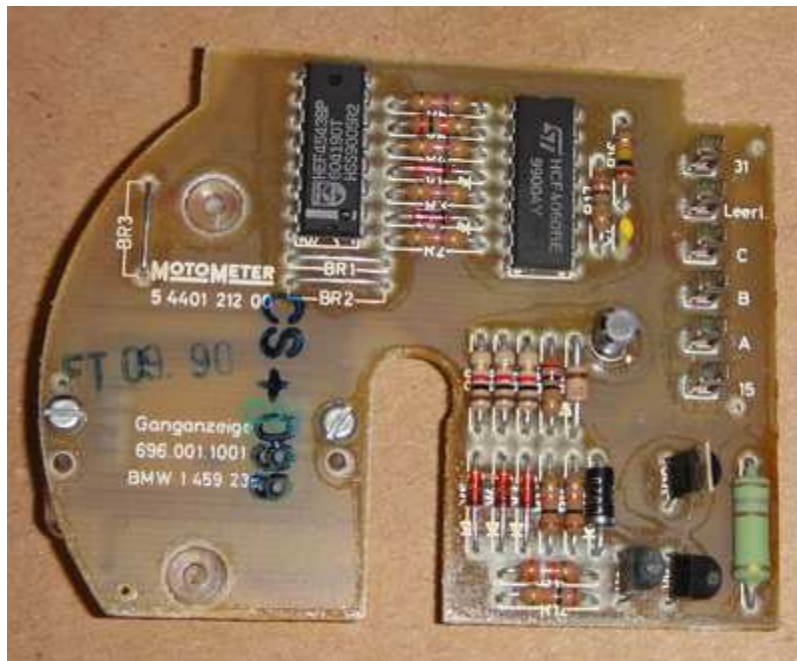
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Voila!



Testing the GPI Board

On the back of the GPI board there are six terminals:

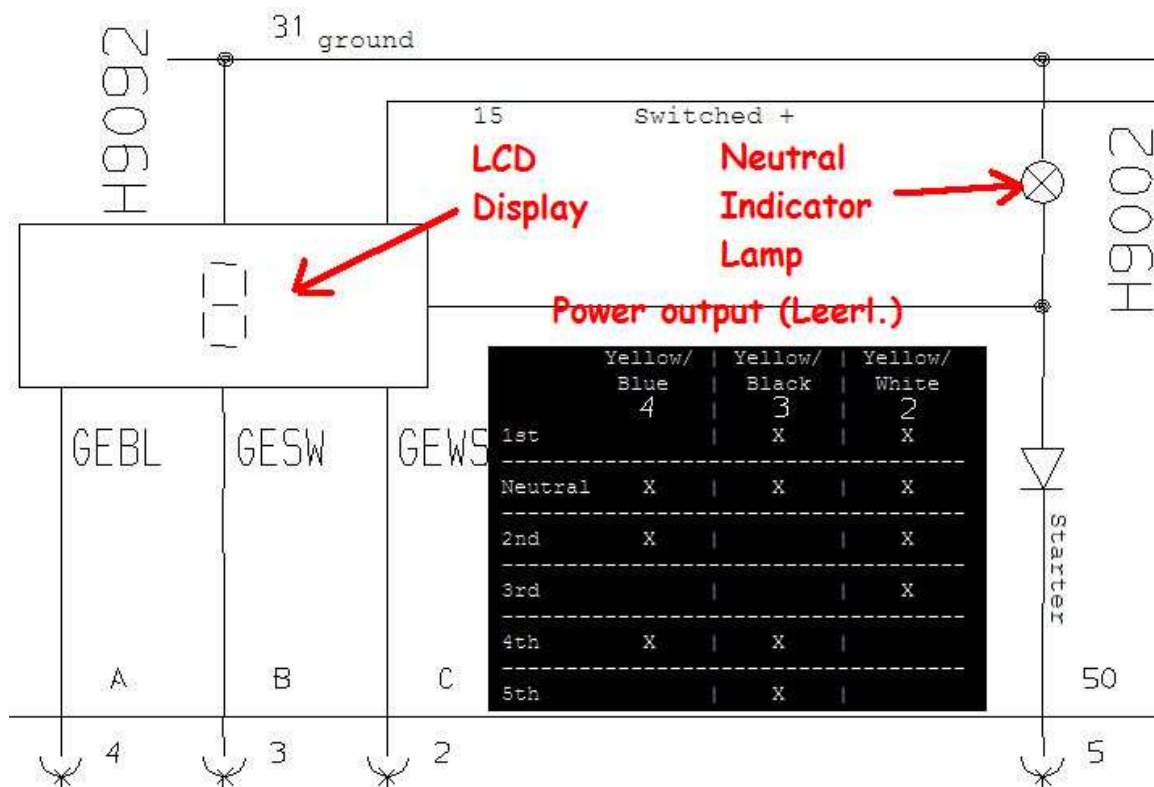




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<u>Terminal Label</u>	<u>Function</u>
31	Ground
Leerl.	12V+ out to N indicator lamp and starter button when in neutral
C	These three terminals receive various combinations of grounds from the GPI switch on the transmission to tell the circuit board what the current gear is (see chart below.)
B	
A	
15	12V+

From a K bike instrument cluster wiring diagram: (I added the chart)



A plain old 9V battery provides adequate voltage for testing the LCD display and neutral power output functions of the GPI board. (Note that you'll only get 9V out from the Leerl. terminal because that's all you're putting in.)

