

GAP FLASHER

FOR ALL SUPPORTED VEHICLES

BY

 **GAP INNOVATION**

INSTALLATION GUIDE, VERSION 1.2

**WARNING**

For your safety and that of others, please read this manual before using the GAP Flasher. Failure to follow instructions could result in serious consequences.

**WARNING**

The GAP Flasher is a device that allows updating the engine ECU firmware and provide the necessary information to the re-map provider.

Read this instruction manual carefully!

Disclaimers

Neither the distributors nor the manufacturer (GAP Innovation, Inc.) accept any responsibility or liability for damages incurred through use of the GAP Flasher. This includes all damages to the vehicle itself, vehicle systems or property. This also includes injuries to the user or other persons. The warranty is limited to the functionality of the GAP Flasher itself (for further warranty details, please consult the last page of this document). This includes especially:

- Damages incurred through improper use of the GAP Flasher
- Damages incurred through the use of the GAP Flasher to change vehicle configuration and / or settings, update the engine ECU, etc.
- Damages incurred through clearing faults without effecting proper repairs
- Damages incurred through usage of any third party products delivered by the GAP Flasher (remap etc).

**WARNING**

The GAP Flasher is not designed to be left in place for long periods. Please unplug after use!

Terms and conditions

Do not copy or reverse engineer. When purchasing our products, downloading our App, using our products or App, you agree not to reverse engineer, copy, extract data or any other manipulation other than the intended usage.

While considerable effort has been made to make the information provided in this section as complete and accurate as possible, it does not and cannot cover all possible situations. The authors cannot accept any responsibility for any damages which may occur from the use or misuse of these procedures, nor can the authors accept any responsibility for any damages which may result from personal injury or property damage which allegedly may be caused by the use or misuse of these procedures. No responsibility is accepted for missing or incorrect information. Those who use these procedures shall accept all responsibility for performing the work which may be described below.

Specifications are subject to change without prior notice.

Suggestions

For convenience and even security purposes, it is suggested that the user keeps an updated version of this manual in PDF format on his or her mobile devices. Thus, accessibility to procedures will be possible anywhere and anytime. By the same token, the computerized version facilitate searching for a particular topic.

You can proceed to download the Installation Guide and User's Manual on the manufacturer's website.

The guide and manual are updated regularly.

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1 Yamaha Sidewinder, Arctic Cat 9000, Thundercat (998cc Turbo)

1.1 GAP Flasher installation

1.1.1 Diagnostic port location



Arctic Cat 9000 series and Yamaha Sidewinder: Open the right side panel

The diagnostic port is located behind the chain case.

Figure 1. Diagnostic connector, 998cc Turbo Snowmobiles

1.1.2 Connecting the GAP Flasher on the vehicle

Once the diagnostic socket is located, it is possible to connect the tool to the vehicle.

Connecting steps

- 1- Remove the cap from the diagnostic connector.
- 2- Turn on the ignition.
- 3- Connect the tool on the vehicles diagnostic port and wait for about 5 seconds.
- 4- Refer to the user guide for App connection steps



Figure 2. Wiring harness to connect on the diagnostic port of the vehicle.



WARNING

Prior to GAP Flasher firmware build 245, it was not designed to be left in place for long periods. Please unplug after use!

Leaving the GAP Flasher connected for long periods without the engine running will drain the vehicle's battery.

Note: From GAP Flasher firmware build 245, the tool can be permanently left connected without risk to the battery. It is recommended to disconnect the tool during the off season.

1.1.3 Disconnecting the GAP Flasher

The GAP Flasher can be disconnected at any time except:



WARNING

Do not disconnect GAP Flasher during an ECU flash as a breakdown or serious consequences could arise (descriptions of these functions and recovery methods are found in the user manual).

1.2 Installing the optional AEM O₂ Wideband sensor



WARNING

Frequent usage of the Anti-Lag function with a Wideband O₂ sensor connected may damage the sensor. This sensor is not warranted.

Neither GAP Innovation nor the tuner shall be held responsible for damages incurred while using the GAP Flasher.

Preparation

Having installed the O₂ sensor bong on the exhaust path.

- 1- Remove both side panels and the hood.
- 2- Locate the black diagnostic connector besides the chain case and remove the cover



Figure 3. Diagnostic port, AEM installation

- 3- Locate the accessory connector at the same location and remove its cover (2 way trailer type connector).

Note: *Splitter for the accessory connection (power and ground) are available. Total current consumption should be considered when connecting multiple accessories on this connector.*

- 4- Connect both AEM connectors on the accessory and diagnostic connectors.



Figure 4. Connecting the AEM harness on the vehicles harness

- 5- Route all wires towards the top of the engine bay. Avoid routing close to the turbocharger, muffler or headers. Secure wires using zip ties

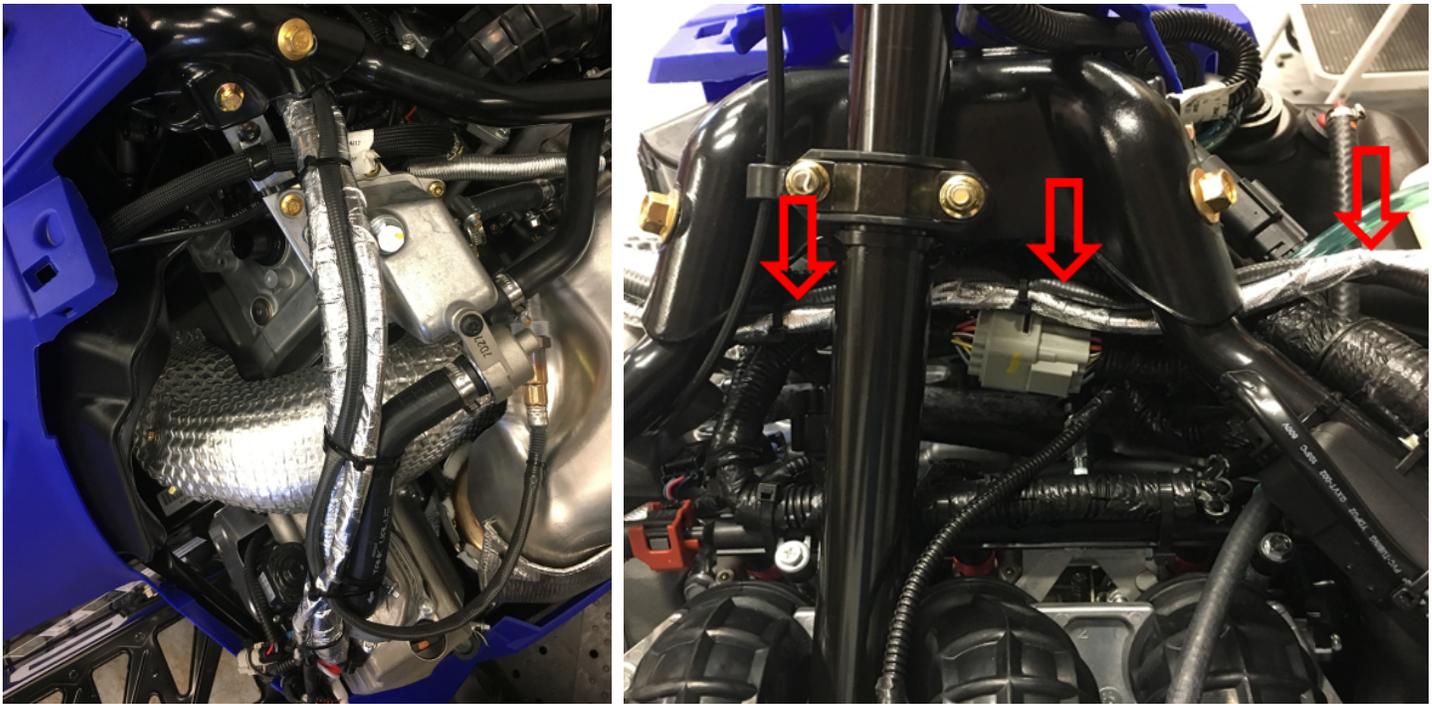


Figure 5. Routing the AEM harness

- 6- Connect the sensor connector to the AEM O₂ Wideband module



Figure 6. Connecting O₂ sensor on the AEM harness

- 7- Find a good location for the module and secure it using zip ties. Avoid the area in red since the hood will not close properly.

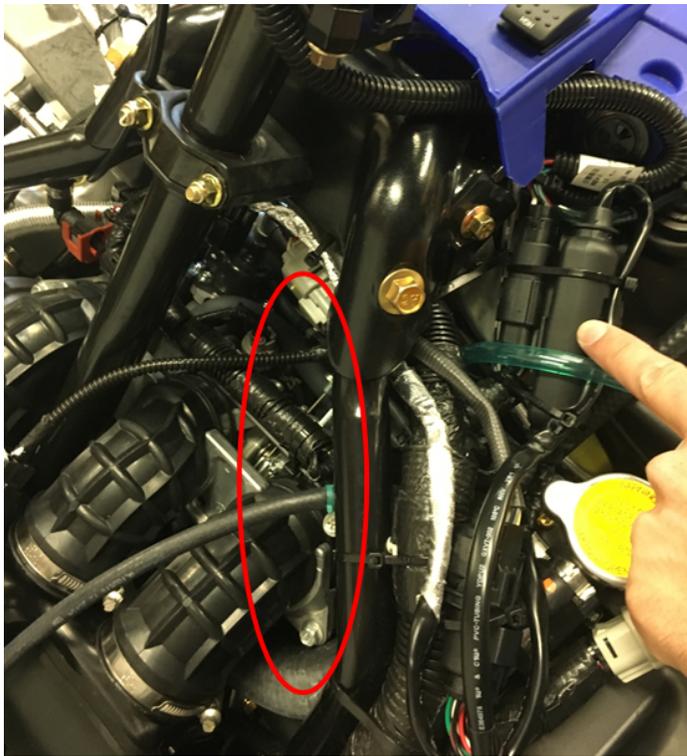


Figure 7. Fixing the AEM module

- 8- Install the hood and side panels. Make sure they fit properly and that the AEM module is not interfering.

1.3 Installing the optional Anti-Lag Harness

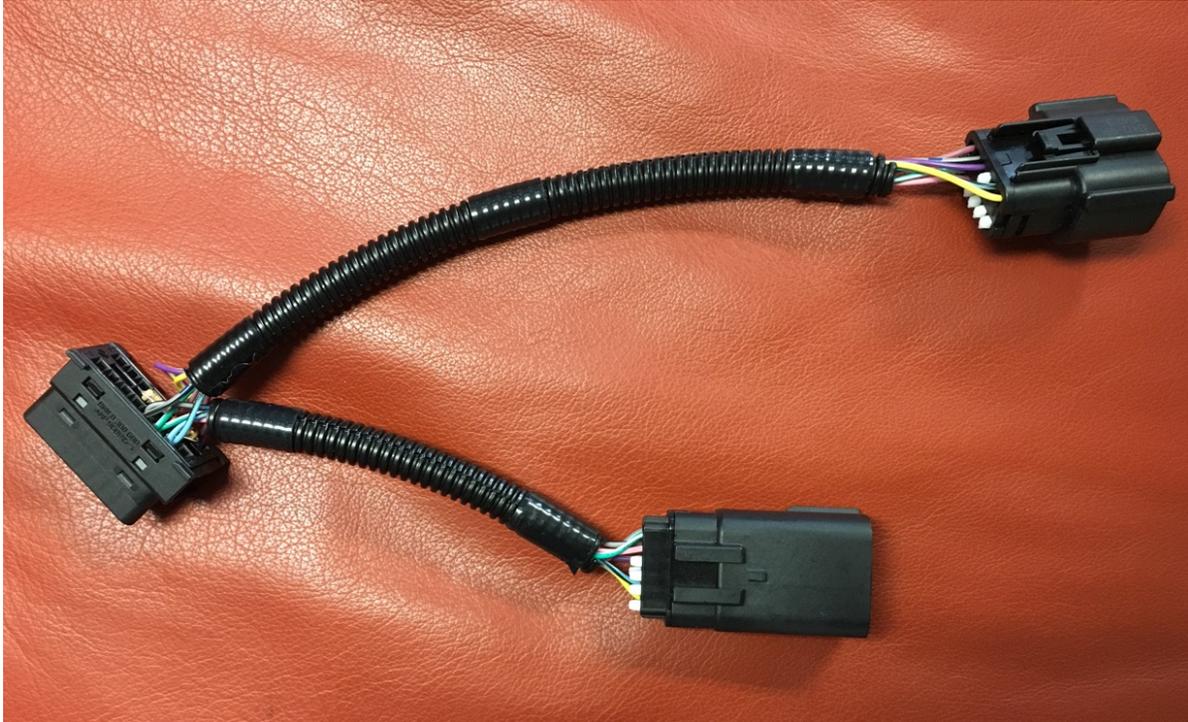


Figure 8. Optional Anti-Lag wiring harness to connect at the instrument cluster location.

- 1- The cluster is held by tabs located on its rear housing. Insert your hand behind the cluster, press on two clips from one side and pull the cluster outwards with your other hand.



Figure 9. Instrument cluster removal



Figure 10. Instrument cluster locking tabs locations

- 2- Disconnect the instrument cluster wiring harness
- 3- The harness previously connected on the instrument cluster mates with the Anti-Lag wiring harness.



Figure 11. Connect Anti-Lag and instrument cluster harnesses

- 4- Locate the remaining connector from the wiring harness and connect it to the instrument cluster.



Figure 12. Instrument pack connection to the Anti-Lag harness

- 5- Install the instrument cluster to its original location.
- 6- You can connect the GAP Flasher and secure the module to the desired location. Some off-road users insert it into the goggle bag providing extra protection.

1.4 Extension cable installation (diagnostic port to the dashboard, GF1011)



Figure 13. Extension cables # 1 and # 2 GF1011

- 1- Remove side panels and hood.
- 2- Locate the diagnostic port behind the chaincase and connect cable # 1 (with silver tape).

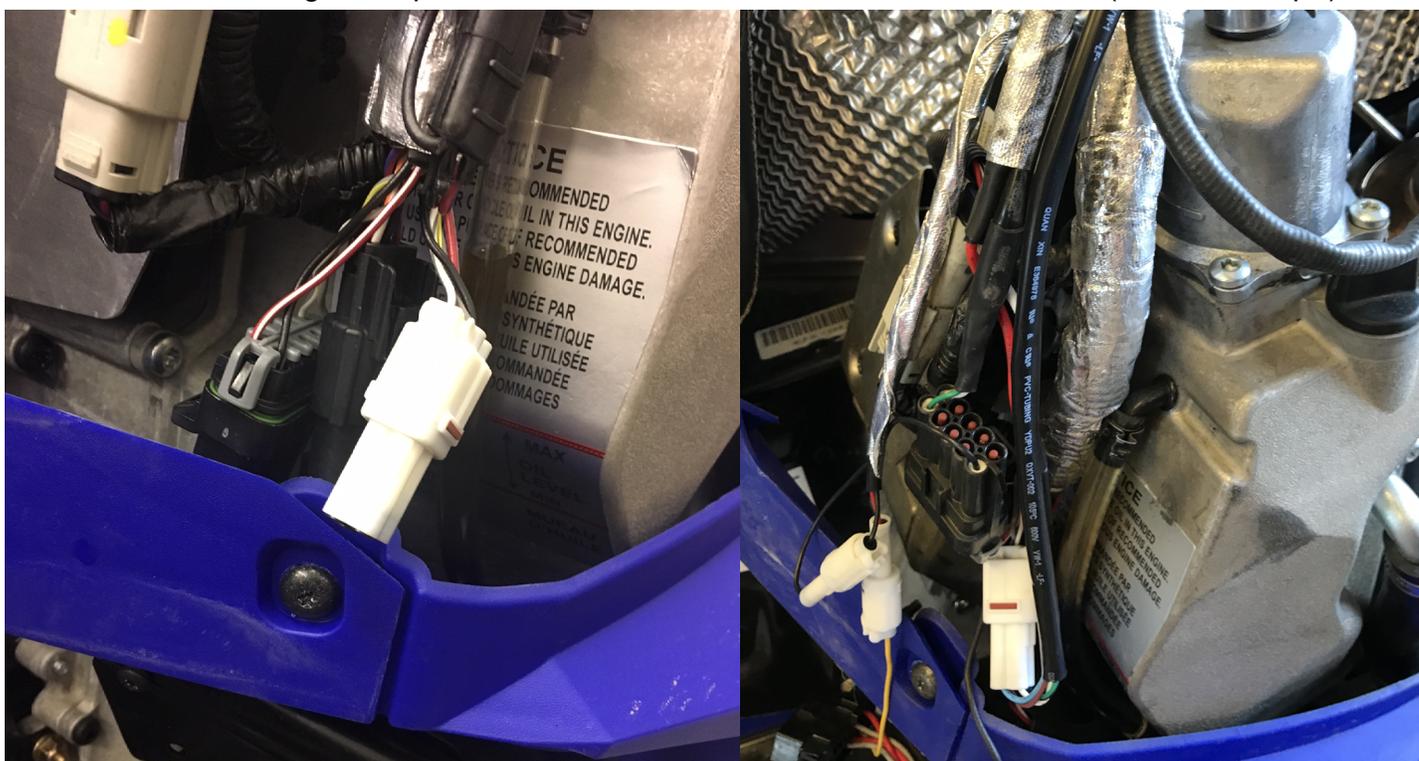


Figure 14. Diagnostic port

- 3- Route all wires towards the top of the engine bay. Avoid routing close to the turbocharger, muffler or headers. Secure wires using zip ties

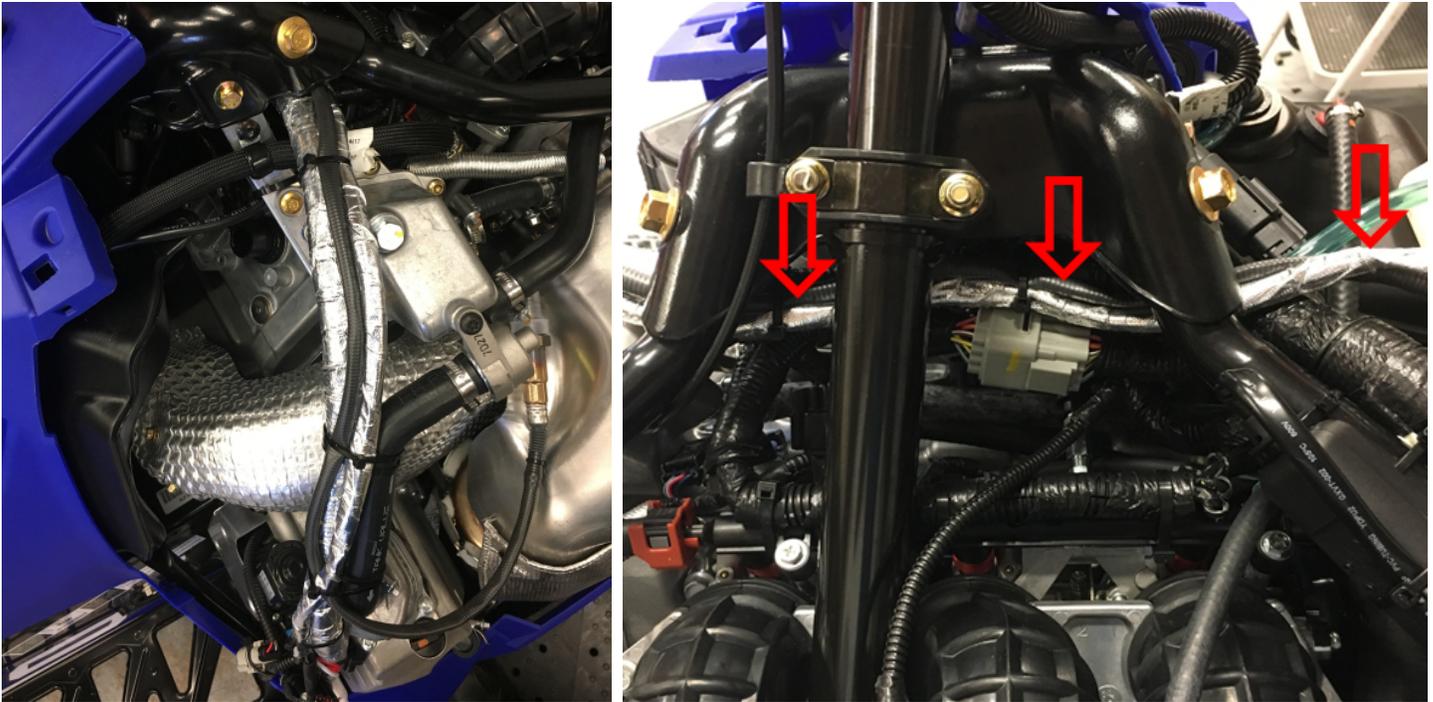


Figure 15. Cable # 1 routing, GF1011

- 4- Route the cable to the hood harness junction



Figure 16. Cable # 1 routing, hood junction, GF1011

- 5- Remove the goggle bag or grill. The grill is removed by pulling towards the rear of the vehicle.



Figure 17. Grill or goggle bag

- 6- Route cable # 2 by following the hood harness up to the instrument cluster and install the hood to the vehicle. Avoid wires running along edges with sharp edges or moving parts. Secure with nylon cable ties (tie wrap, zip ties ...).

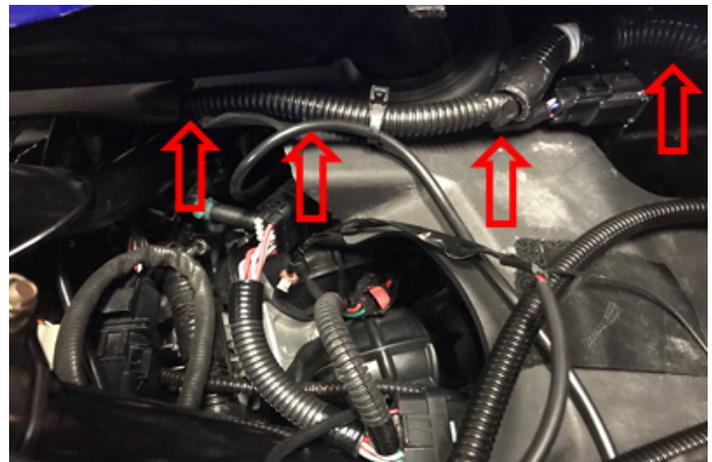


Figure 18. Cable # 2 routing, hood junction, GF1011

- 7- Connect the two cables at the hood junction.



Figure 19. Connecting cable # 1 and # 2 at the hood junction, GF1011.

- 8- Connect cable # 2 to the GAP Flasher cable. iPad Mini 4 support present on this image.



Figure 20. Connecting extension cable # 2 and GAP Flasher, GF1011

- 9- You can connect the GAP Flasher and secure the module to the desired location. Some off-road users insert it into the goggle bag providing extra protection.

1.5 Installing the optional iPad Mini 4 holding brackets

1.5.1 Removing the instrument cluster

- 1- Remove both side panels and pull the hood forward a few inches.



Figure 21. Hood pulled forward

- 2- Remove the goggle bag or grill. The grill is removed by pulling towards the rear of the vehicle.
- 3- The cluster is held by tabs located on its rear housing. Insert your hand behind the cluster, press on two clips from one side and pull the cluster outwards with your other hand.



Figure 22. Instrument cluster removal



Figure 23. Instrument cluster locking tabs locations

- 4- Disconnect the instrument cluster wiring harness

1.5.2 Installing the iPad support

Simply place and push the iPad bracket assembly for proper fitting.



Figure 24. Installing the iPad support

Removal is achieved by pushing on the back of the round insert the same way the original instrument cluster is removed. **Do not pull on the iPad holder.**

Note: The above picture shows a bracket fitted with the optional heating pad.

Connecting the Anti-Lag harness

- The cable harness previously connected to the instrument cluster mates with the Anti-Lag cable harness.



Figure 25. Connection of the Anti-Lag and instrument cluster harnesses

Installing the instrument cluster relocating bracket

- 1- Locate the tabs, one per side, on the instrument panel on which the bracket will be held. The relocating bracket tabs (left picture) will be placed on top of the lower tabs of the instrument panel (right picture).

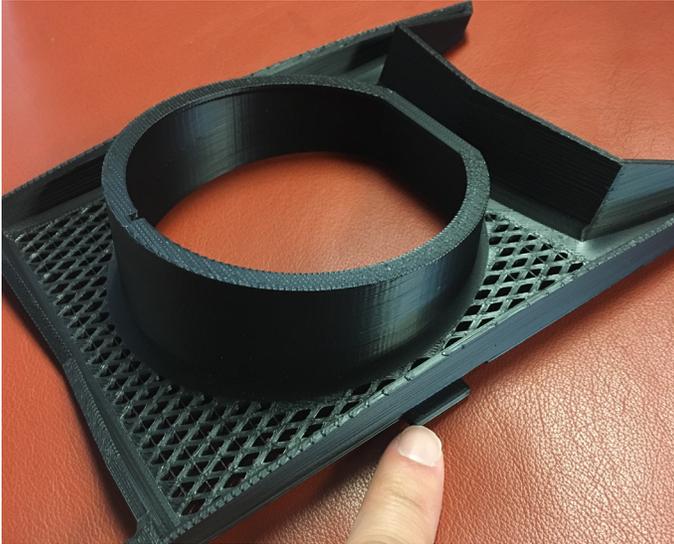


Figure 26. Relocating bracket tabs locations



Figure 27. Instrument panel tabs locations

- 2- Slide the bracket sideways and towards the rear of the vehicle



Figure 28. Relocating bracket initial step 1



Figure 29. Relocating bracket initial step 2

- 3- Place your finger below the lower tab of the panel (next figure) to locate it and slide the bracket forward making the sure the side tabs (bracket) are placed on top of the lower tab (panel). Move forward until it reaches the original cluster support (red arrows).



Figure 30. Relocating bracket positioning

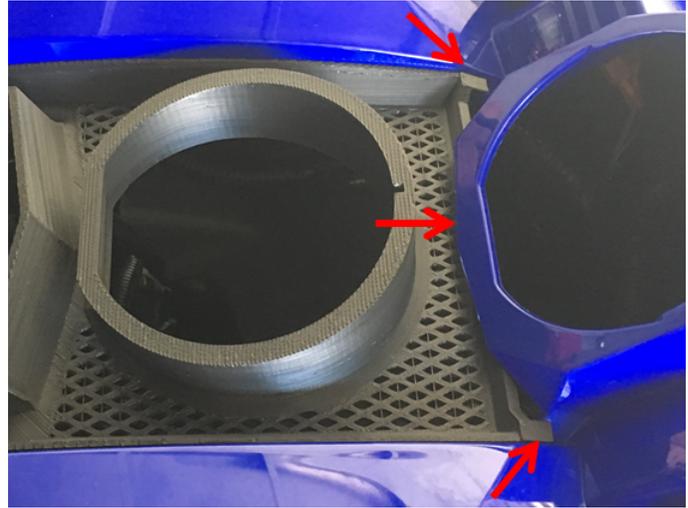


Figure 31. Relocating bracket final position

Notice the space between the top of the bracket and panel. The photo on the left shows a correct installation while the one on the right is incorrect.

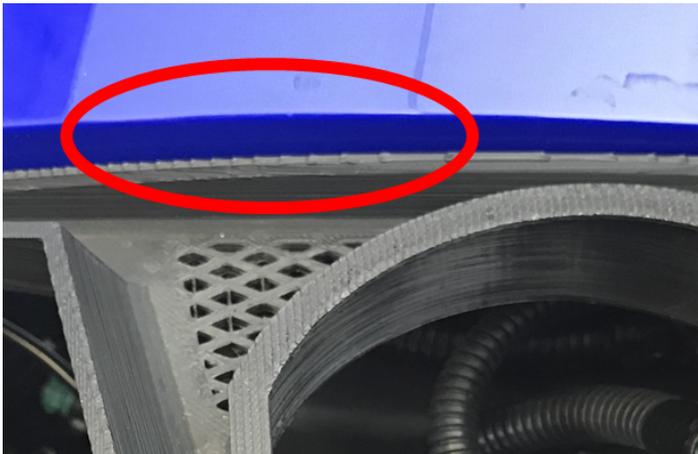


Figure 32. Relocating bracket correct position

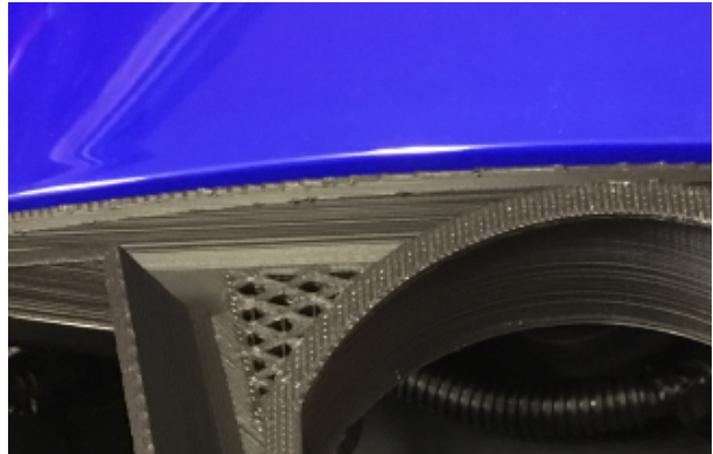


Figure 33. Relocation bracket incorrect position

Notes: Usage of a phone to take a picture is quite helpful to determine if proper installation was performed as per the following page. Mechanical differences between machines may affect the spacings. The bracket used for the following 2 figures is grey for better visibility.

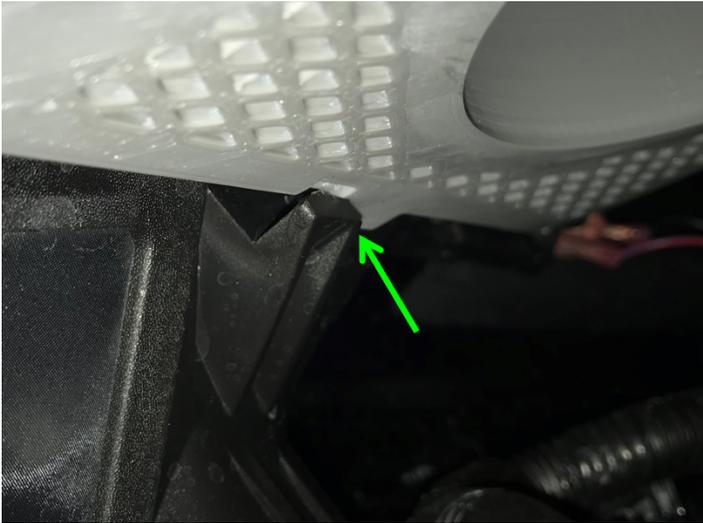


Figure 34. Relocating bracket correct position

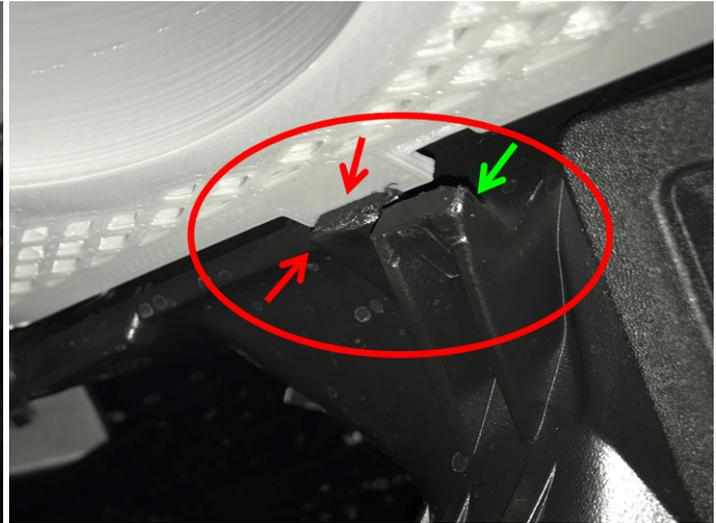


Figure 35. Relocating bracket incorrect position (resting on top tab)

1.5.3 Installing the original instrument cluster

- 1- Locate the remaining connector from the wiring harness and connect it to the instrument cluster.

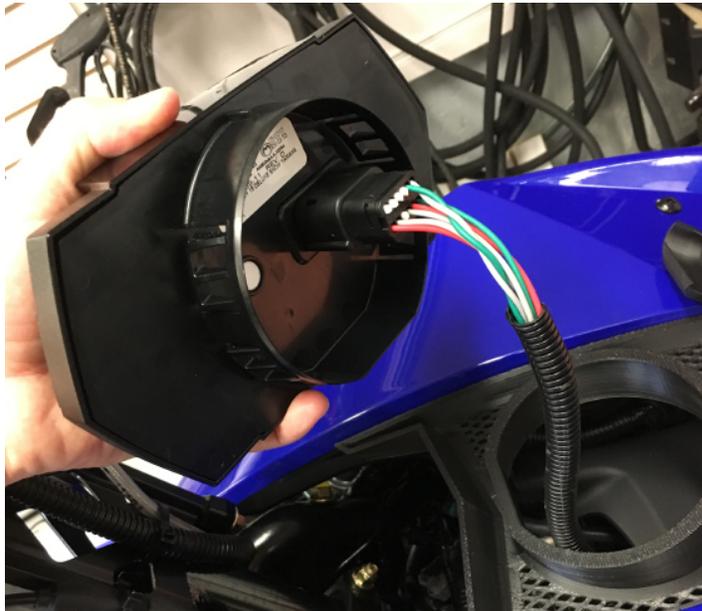


Figure 36. Instrument cluster installation harness connection

- 2- Insert the instrument cluster into the relocating bracket. Be sure to align the tab and the notch (red circles).

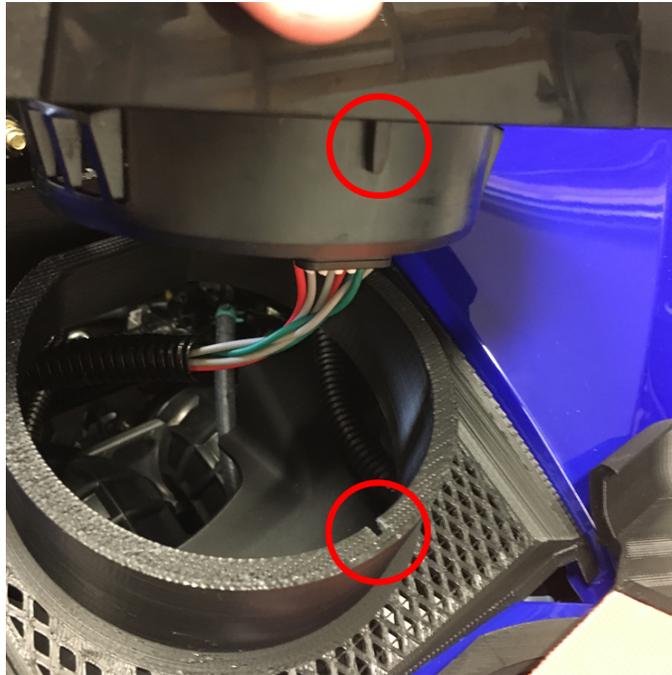


Figure 37. Instrument cluster installation

Removal is achieved by gently pulling on both sides of the instrument cluster.

1.5.4 Finalizing

Push the hood back into position and install side panels. Make sure that no wires or other come in contact with the steering post or down into the hole in front of it.

1.6 Optionnal button, GAP Flasher connected at the diagnostic port. (ACC1009-U)

1.6.1 Cables definition

Cable # 1

Two different OBD-type connectors were used for making the GAP Flasher cable connecting to the diagnostic socket. The kit includes two # 1 cables covering each of the possibilities and only one is required depending on the OBD connector used.

Câble # 1, type A



Figure 38. Optional button, cable # 1 overview, type A harness, ACC1009-U

Cable # 1, type B



Figure 39. Optional button, cable # 1 overview, type B harness, ACC1009-U

Cable # 2



Figure 40. Optional button, cable # 2 overview, ACC1009-U

Cable # 3

Cables # 1, 2 and 4 connects to this one.

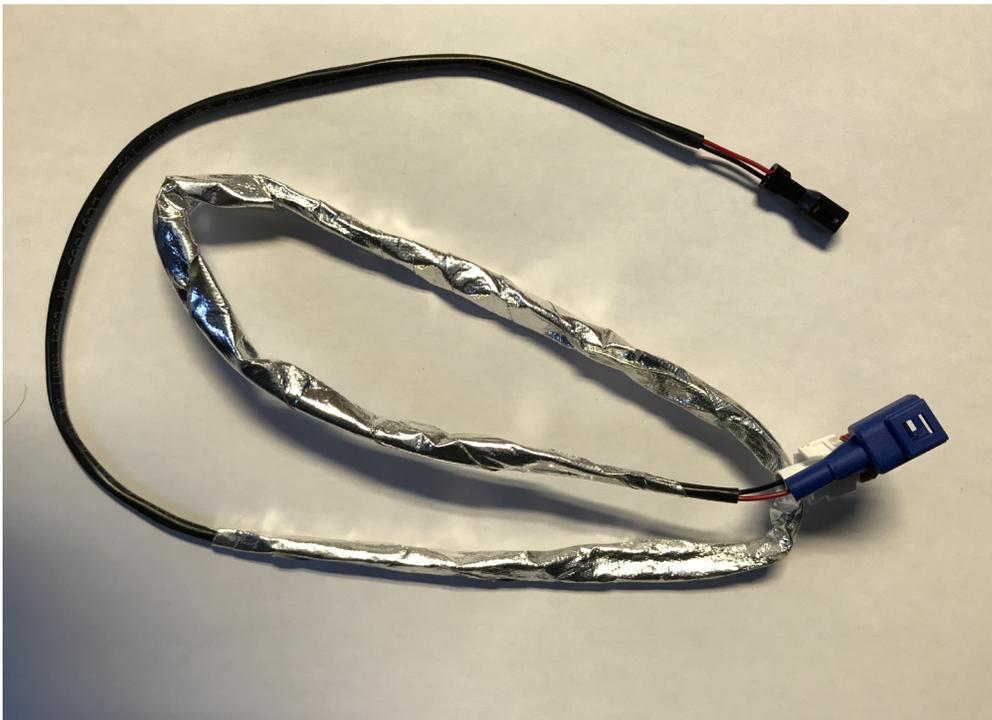


Figure 41. Optional button, cable # 3 overview, ACC1009-U

Cable # 4

With button

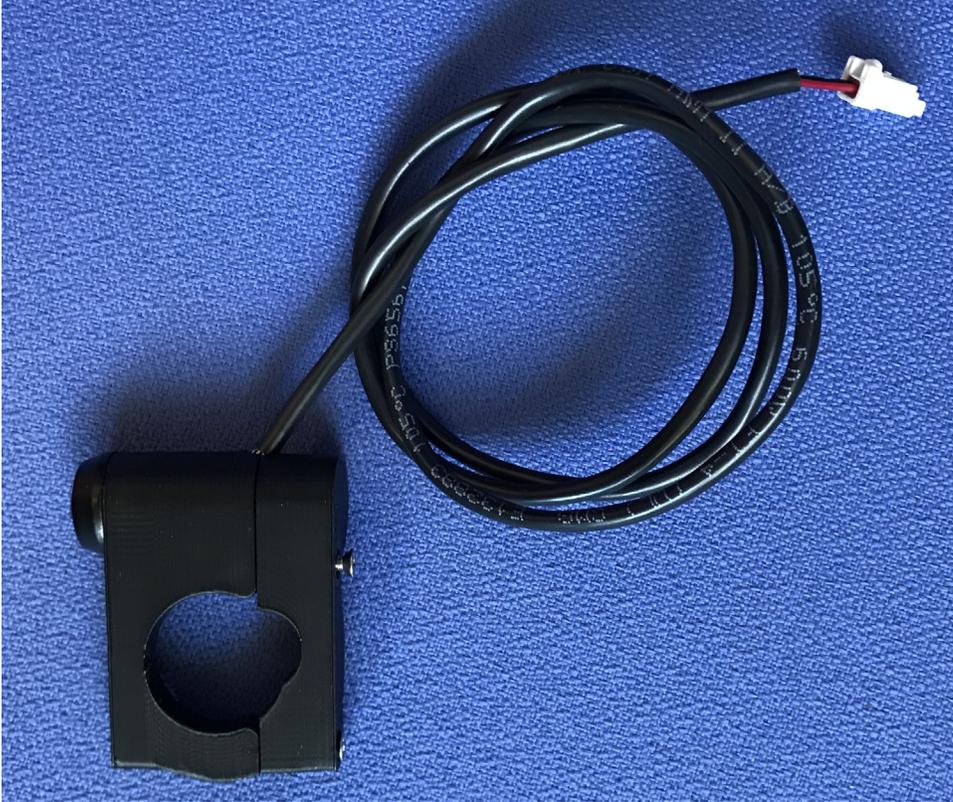


Figure 42. Optional button, cable # 4 overview, ACC1009-U

1.6.2 Cable # 1, connecting to the GAP Flasher connector



Figure 43. Optional button, cable # 1 overview, ACC1009-U

Two different OBD type connectors have been used for the manufacture of GAP Flasher harnesses. Only one of the two provided harness with a yellow wire is required and depends on the OBD connector.

Terminal and connector, type A

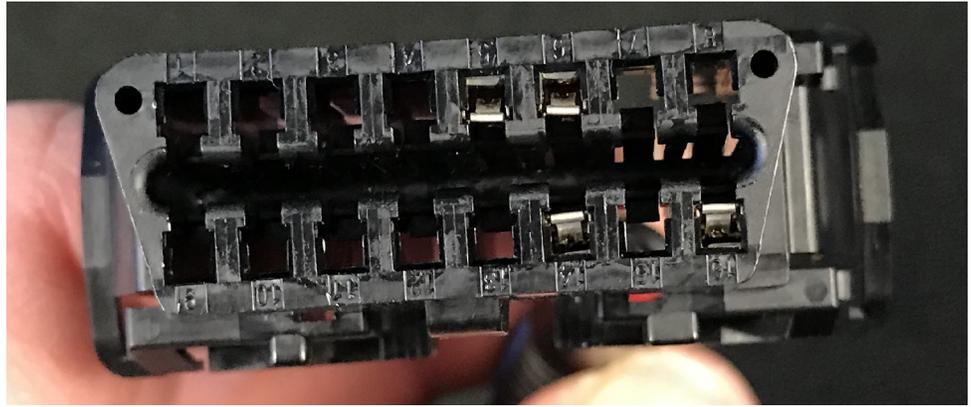


Figure 44. Optional button, type A harness, ACC1009-U

Simply insert the terminal in slot number 8.

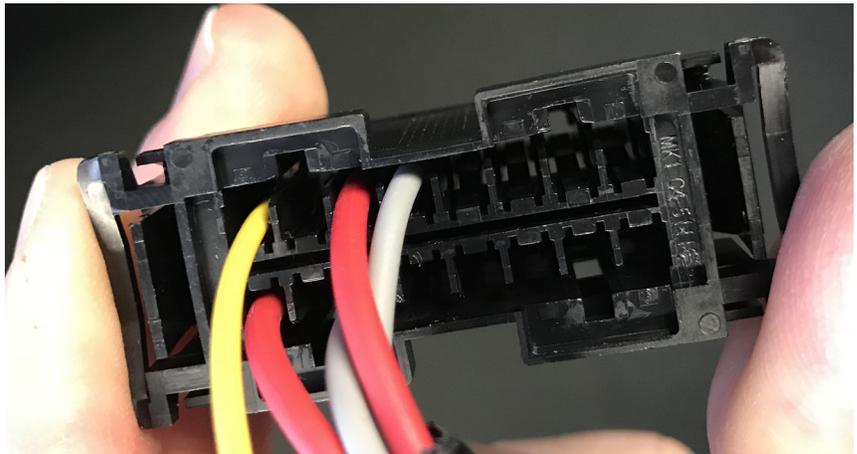
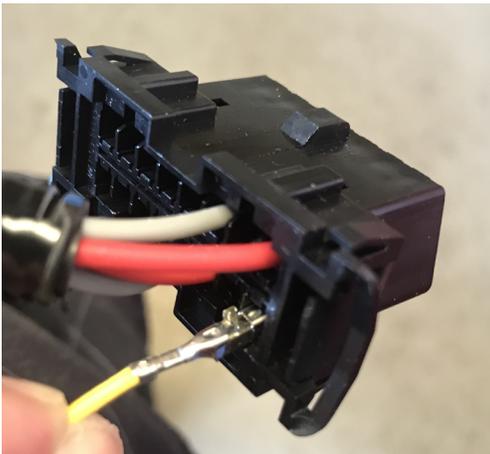


Figure 45. Position 8, OBD connector type A, ACC1009-U

Terminal and connector, type B

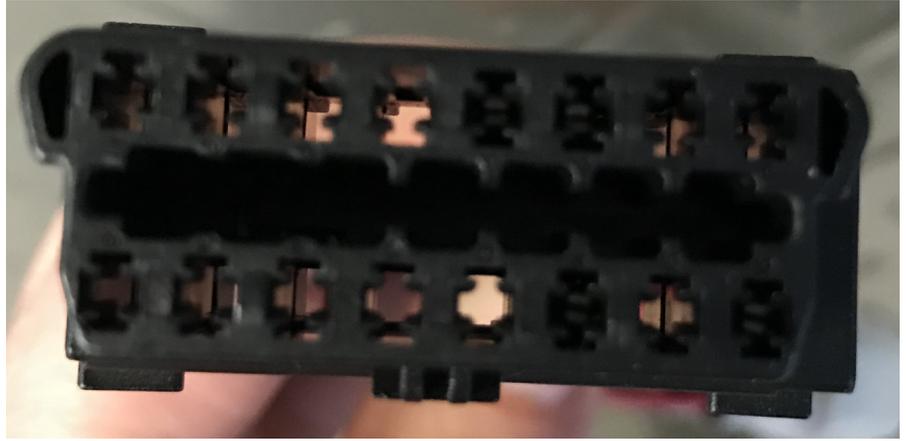


Figure 46. Optional button, type B harness, ACC1009-U

Unlock the connector by pulling on the gray lock. It does not need to be removed from the connector.

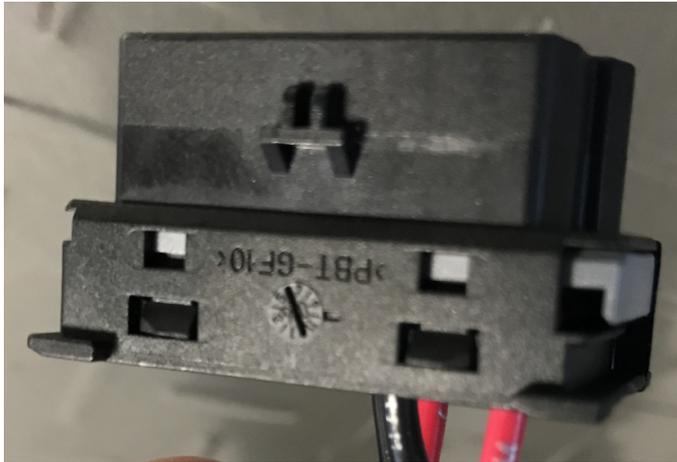


Figure 47. Unlock the connector, type B, ACC1009-U

Simply insert the terminal in slot number 8 and push on the grey lock. If the lock does not engage, the terminal is not into position and may need to be pushed in more.

The numbers are indicated on the OBD connector.

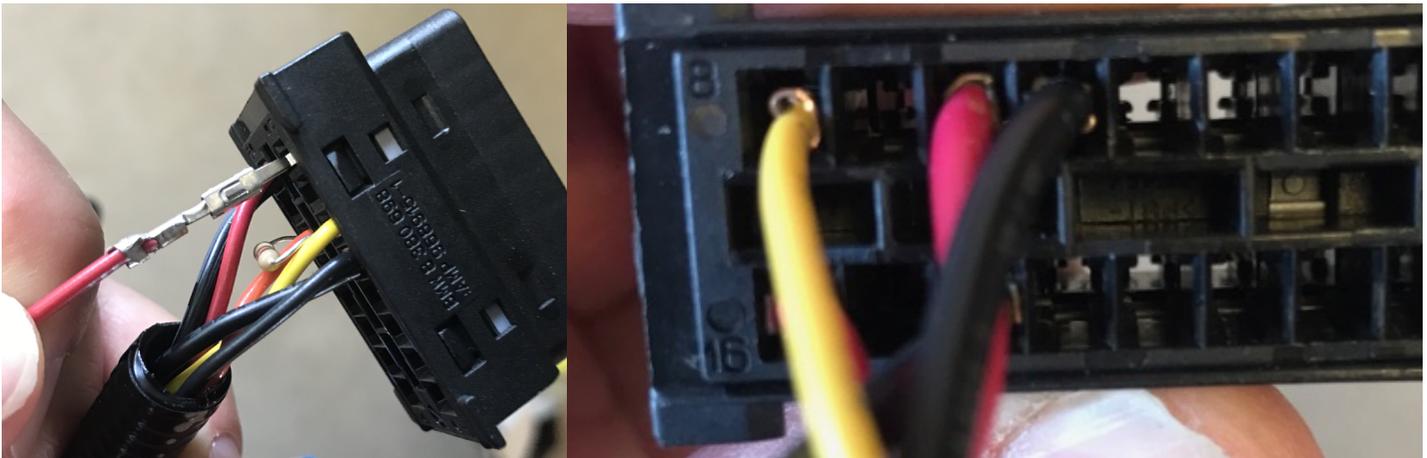


Figure 48. Position 8, OBD connector, type B, ACC1009-U

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INSTALLATION GUIDE : VERSION 1.2

Open the protective corrugate and insert the yellow wire

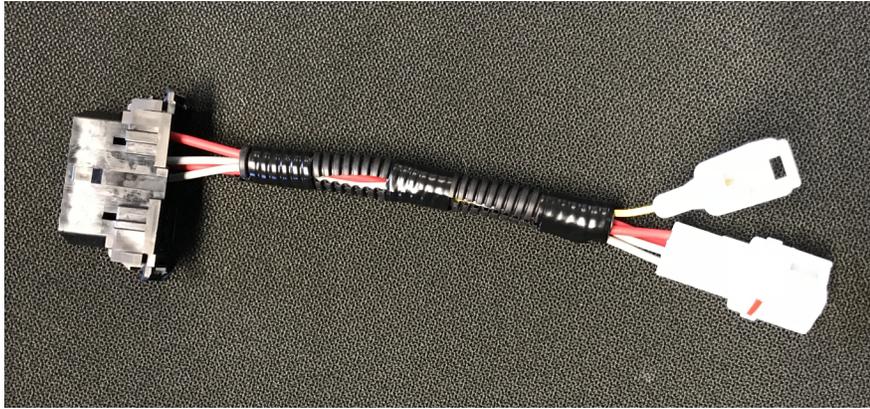


Figure 49. Cable # 1 installed, ACC1009-U

1.6.3 Cable # 2, ground connection to diagnostic port

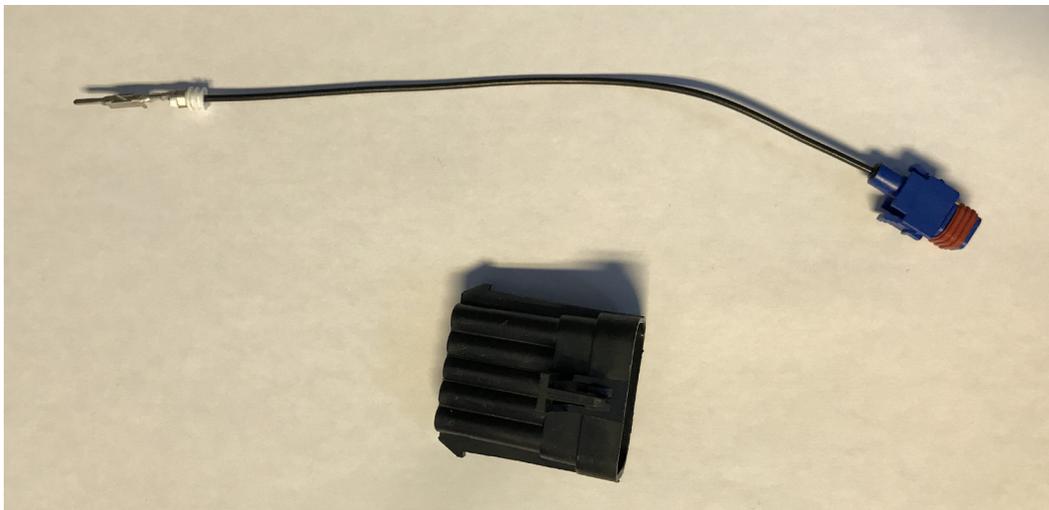


Figure 50. Optional button, cable # 2 overview, ACC1009-U

A connector is provided and will be used to connect this harness to the diagnostic port. If the vehicle is already equipped with an optional AEM O₂ wideband sensor, the wire will be plugged into the AEM O₂ connector instead of the supplied one.

Locate the A position of the connector and insert the terminal until it is in position (you will hear a click). The wire will then be securely fixed.



Figure 51. Optional button, cable # 2, ACC1009-U

1.6.4 Cable # 3, in between connector



Figure 52. Cable # 3 overview, ACC1009-U

- 1- Connect both cable # 1 and 2 to cable # 3. **Disconnection of these connectors is helped by pushing them inwards before pressing on the locks. They will be easier to pull.**



Figure 53. Cable # 3 connected to cable #1 and 2, ACC1009-U

- 2- Route all wires towards the top of the engine bay. Avoid routing close to the turbocharger, muffler or headers. Secure wires using zip ties

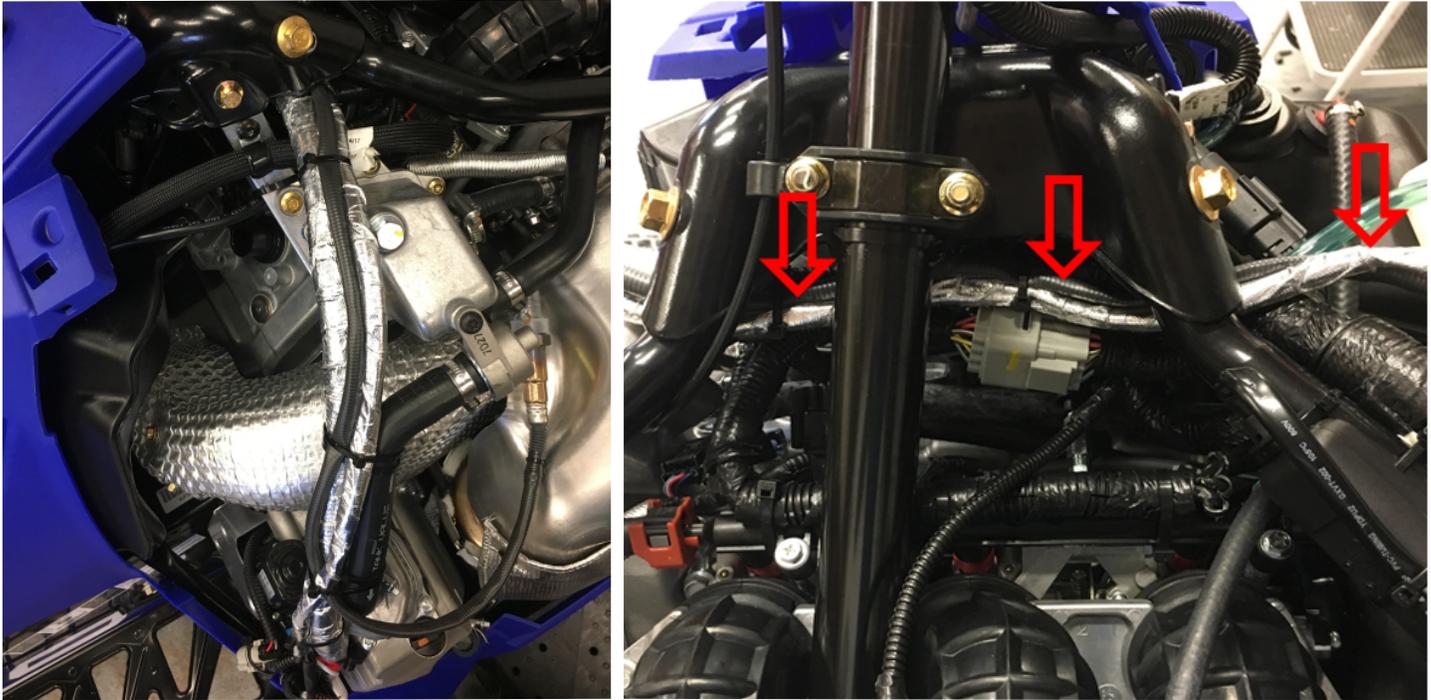


Figure 54. Routing of cable # 3 to handlebar junction, ACC1009-U

- 3- Locate the connector joining the main harness to the snowmobile handlebar harness and place the connector as follows.

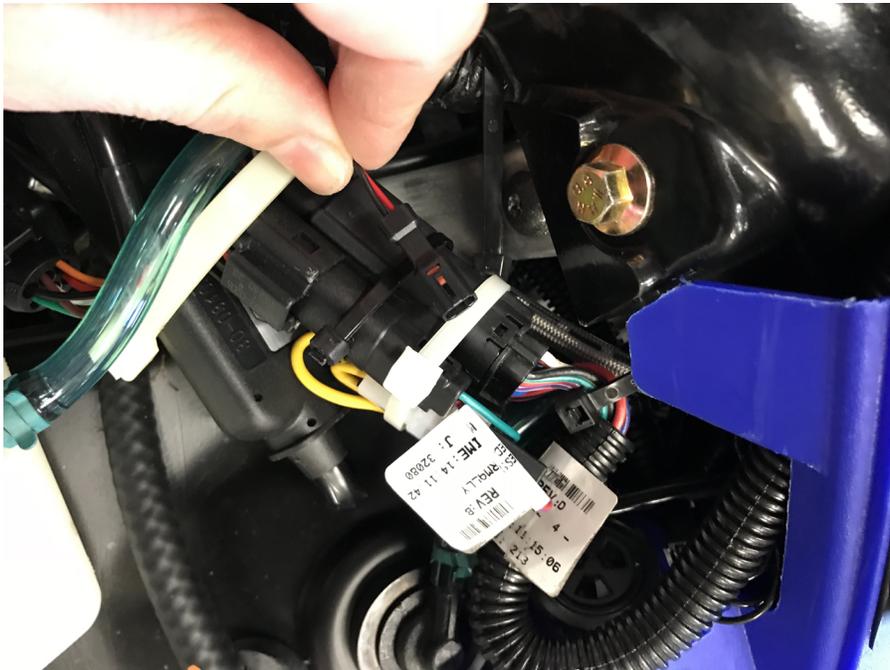


Figure 55. Handlebar junction location, ACC1009-U

1.6.5 Cable # 4, button Installation

- 1- The support embarks on the handle as per the notch and recess made for this purpose. Place the button and position it so that it is straight, pointing towards the rear of the vehicle. **It is sometimes necessary to move the control block (high beam, heating handle switches) to the right in order to give enough room for installation of the button.**

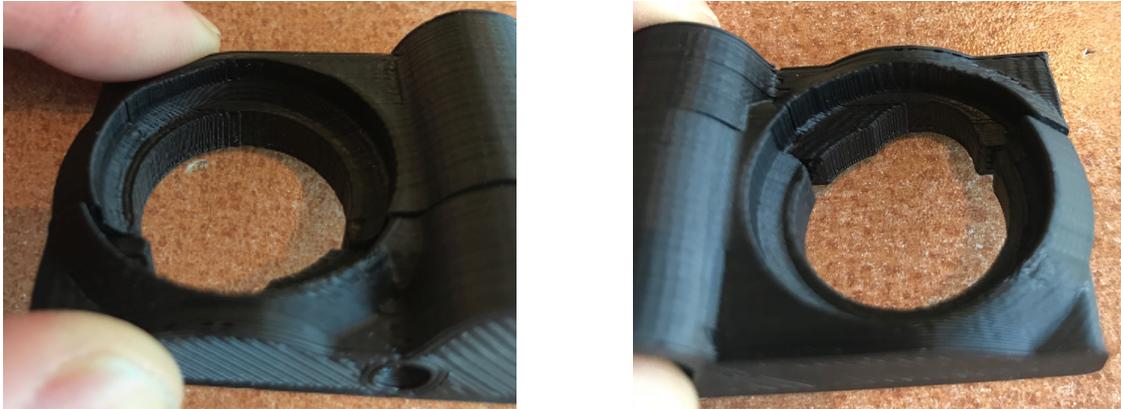


Figure 56. Cable # 4, button installation, notch and recess, ACC1009-U

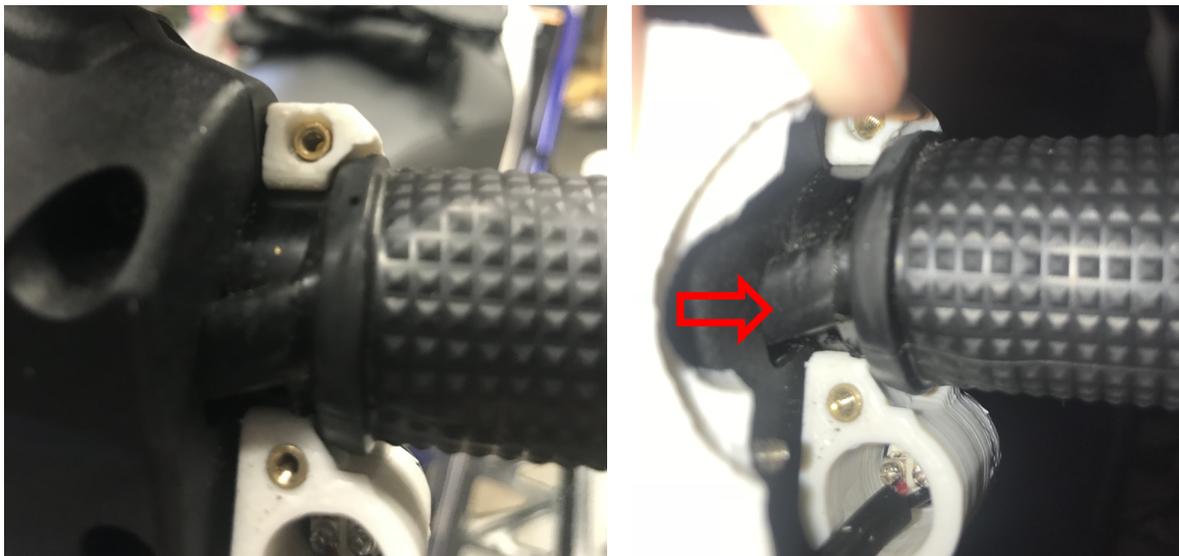


Figure 57. Cable # 4, button installation, positioning, ACC1009-U

- 2- Assemble the back part of the button. Avoid over tightening the screws.



Figure 58. Cable # 4, button installation, back installation, ACC1009-U

- 3- Route the cable by following the handlebar harness.



Figure 59. Cable # 4, routing on handlebar and steering post, ACC1009-U

- 4- Connect cable # 4 to cable # 3 at the junction of the handlebar harness.

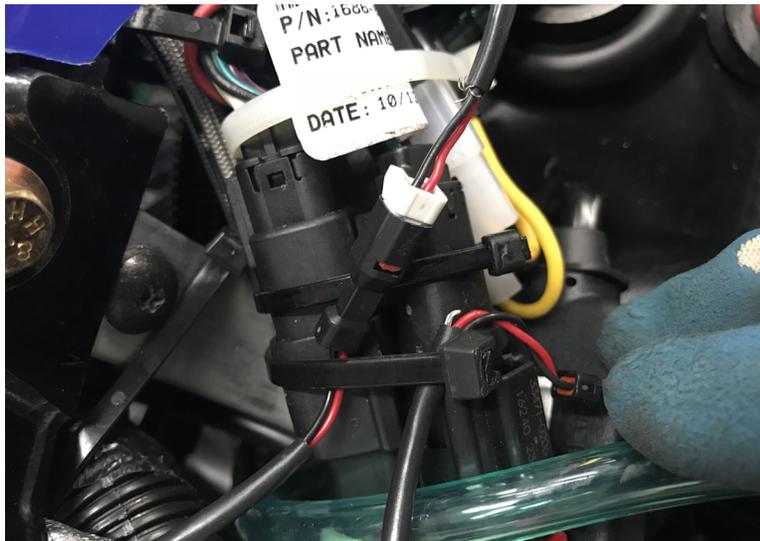


Figure 60. Cable # 4, connection at handlebar junction to cable # 3, ACC1009-U

1.7 Installing the optional button, Anti-Lag harness. (ACC1007-L and ACC1008-L)

1.7.1 Cables definition

Cable # 1

Three different OBD connectors were used for the manufacture of the GAP Flasher Anti-Lag cables ACC1007-L or when the GF1011 extension is used, ACC1008-L. The kit includes three # 1 cables covering each possibility and only one is required depending on the OBD connector used.

Cable # 1, Type A

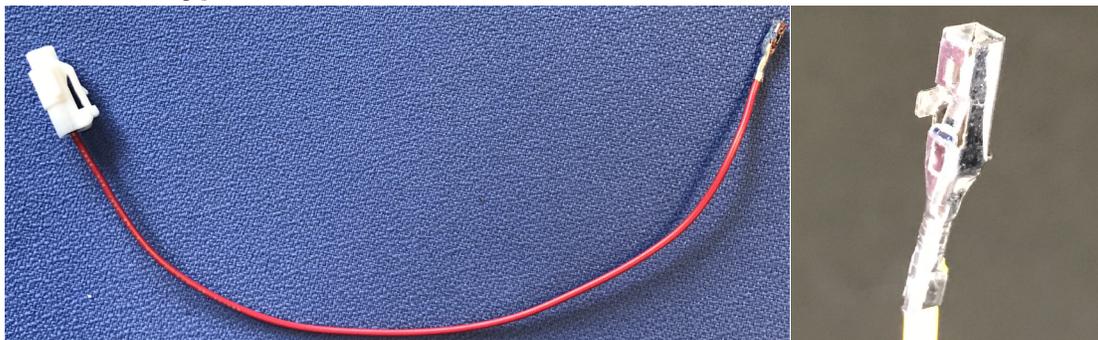


Figure 61. Cable # 1, Type A, optional button, ACC1007-L and ACC1008-L

Cable # 1, Type B

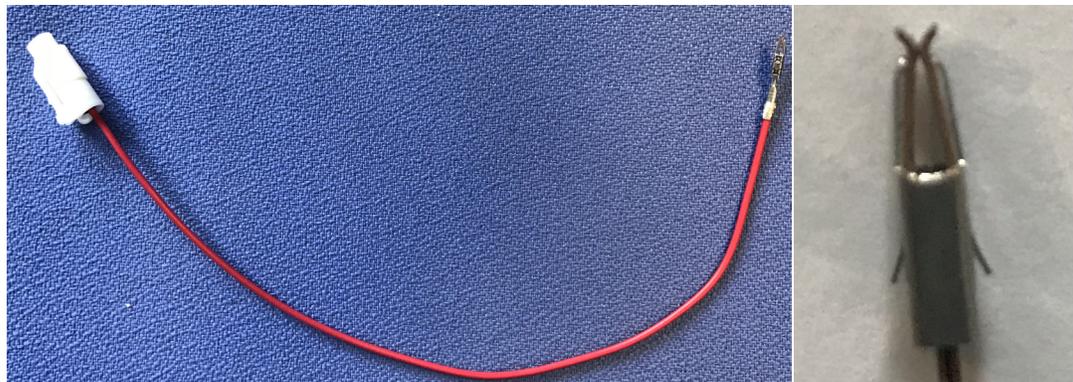


Figure 62. Cable # 1, Type B, optional button, ACC1007-L only

Cable # 1, Type C

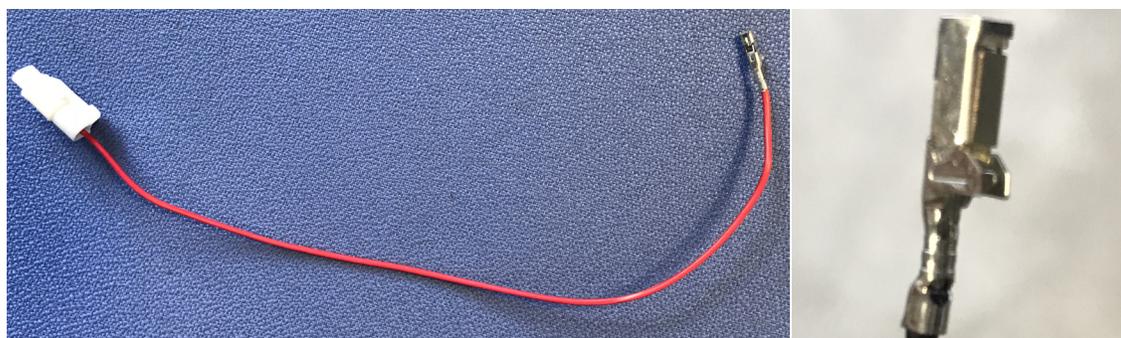


Figure 63. Cable # 1, Type C, optional button, ACC1007-L only

Cable # 2

Connects to cable # 1 and # 3

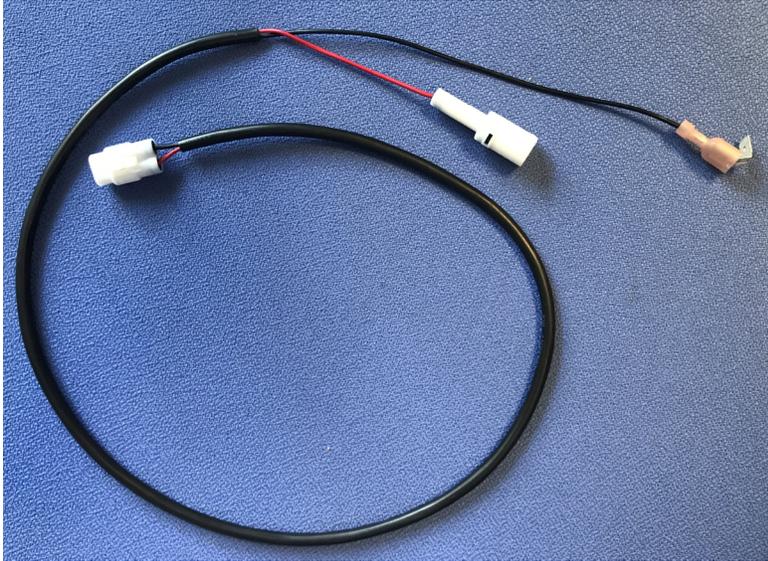


Figure 64. Cable # 2, optional button, ACC1007-L and ACC1008-L.

Cable # 3

With button



Figure 65. Cable # 3, optional button, ACC1007-L and ACC1008-L.

1.7.2 Cable # 1, connecting to the GAP Flasher connector

Terminal and connector, type A (ACC1007-L and ACC1008-L)

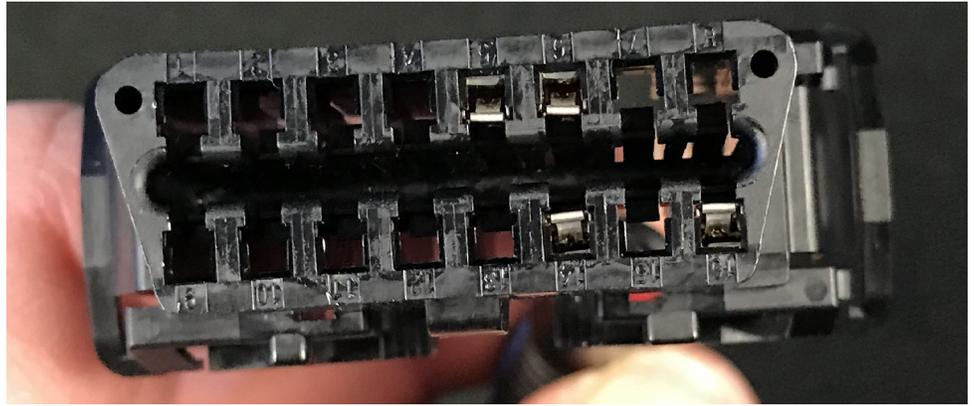


Figure 66. Optional button, cable # 1, type A connector, ACC1007-L and ACC1008-L.

Simply insert the terminal in position number 8.

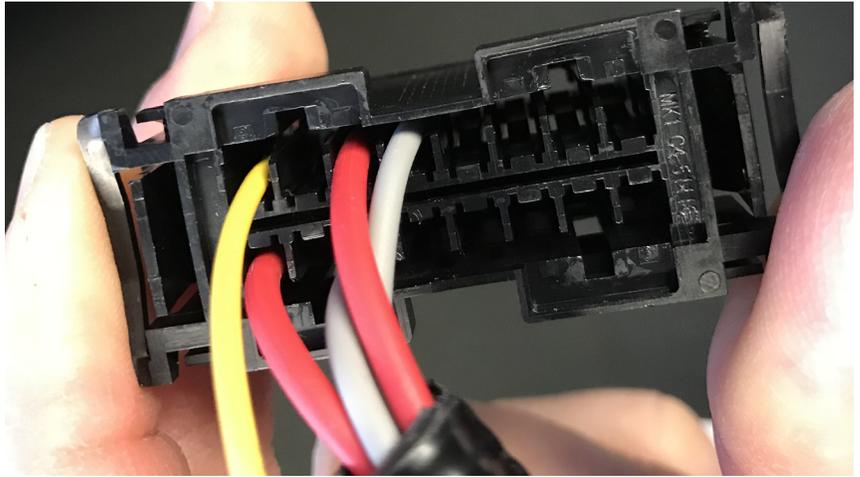
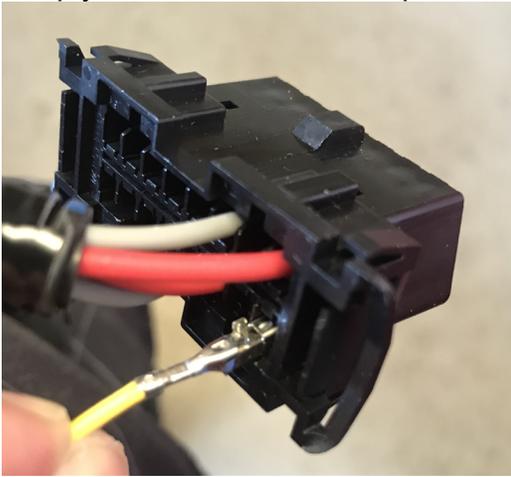


Figure 67. Position 8, cable # 1, type A, ACC1007-L and ACC1008-L.

Terminal and connector, type B (ACC1007-L)

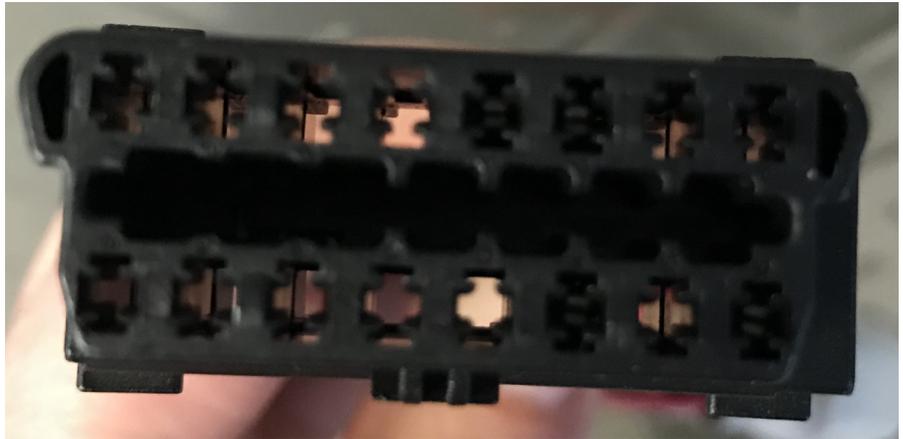


Figure 68. Cable # 1, Type B, OBD connector ACC1007-L only

- 1- Unlock the connector by pulling on the gray lock. It does not need to be removed from the connector.



Figure 69. Unlock the connector, type B, ACC1007-L only

- 2- Simply insert the terminal in slot number 8 and push on the grey lock. If the lock does not engage, the terminal is not into position and may need to be pushed in more.

The numbers are indicated on the OBD connector.

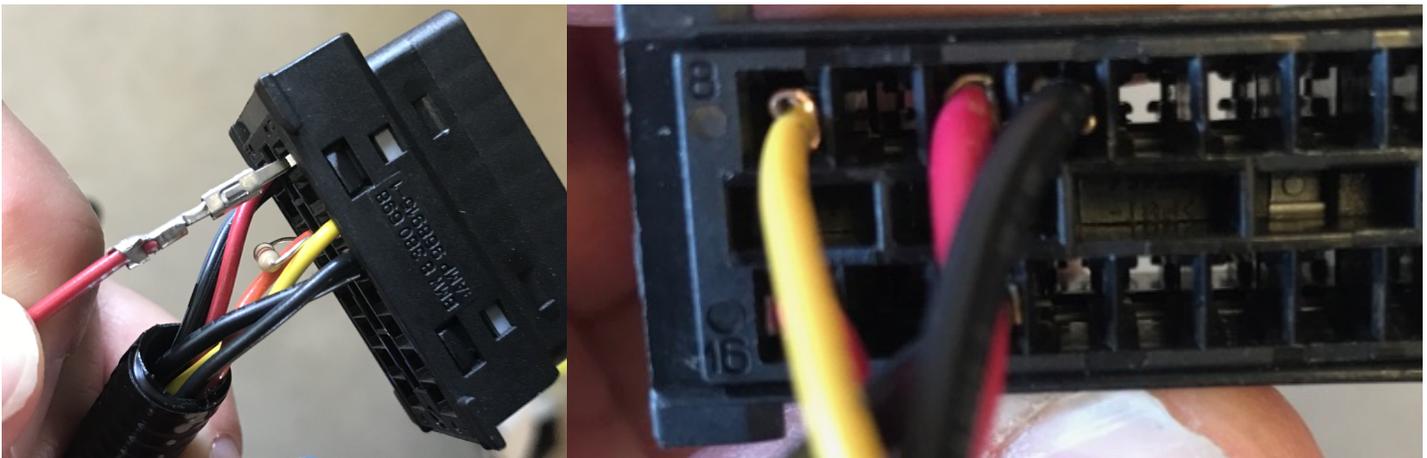


Figure 70. Position 8, OBD connector, type B, ACC1007-L only

Terminal and connector, type C (ACC1007-L)



Figure 71. Cable # 1, Type C, OBD connector ACC1007-L only

1- Unlock the connector

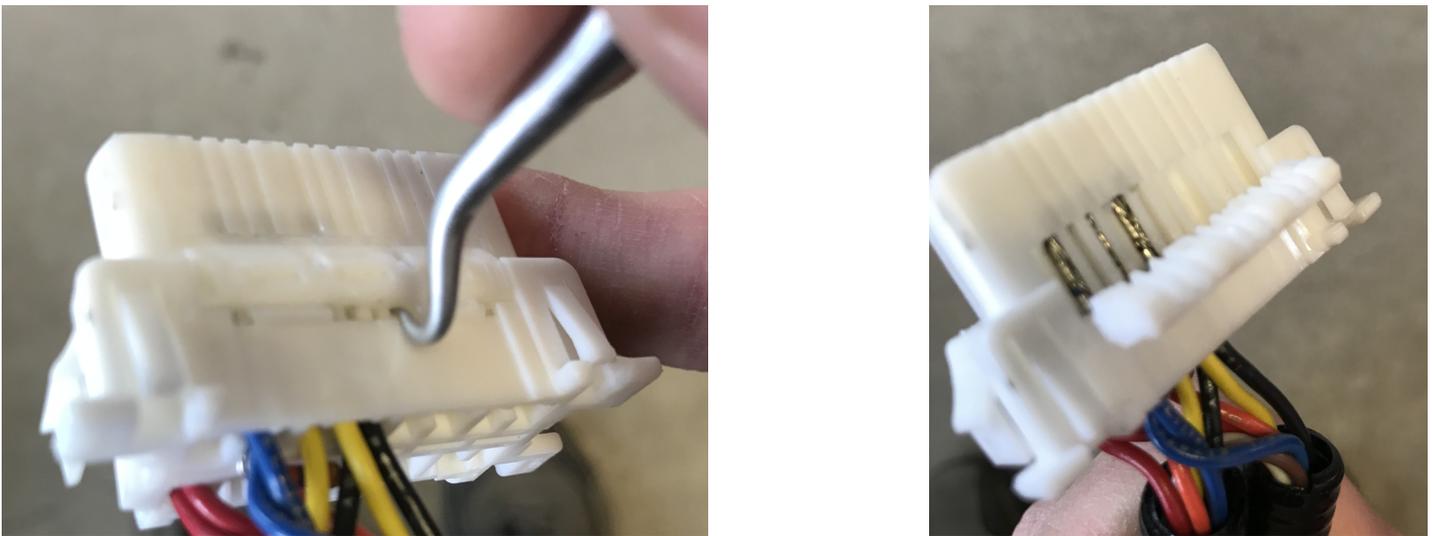


Figure 72. Cable # 1, Type C, OBD connector unlock ACC1007-L only

- 2- Simply insert the terminal at position number 8. Push on the terminal until it is in position.

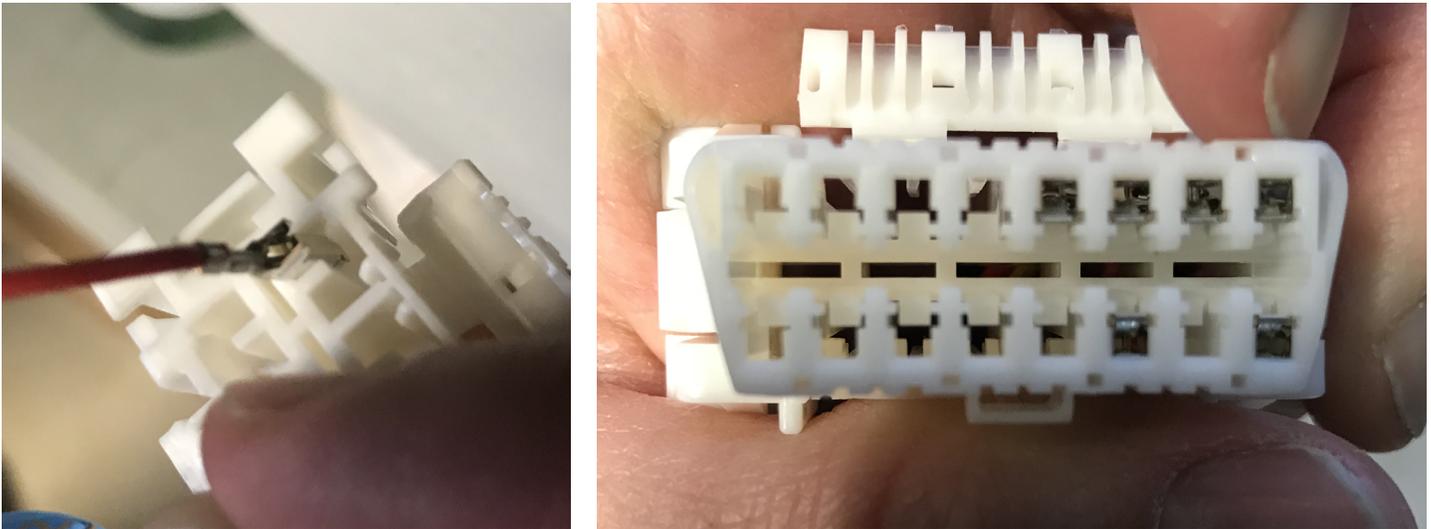


Figure 73. Cable # 1, Type C, OBD connector position 8 ACC1007-L only

- 3- Close the connector lock. If the lock does not engage, the terminal is not into position and may need to be pushed in more.

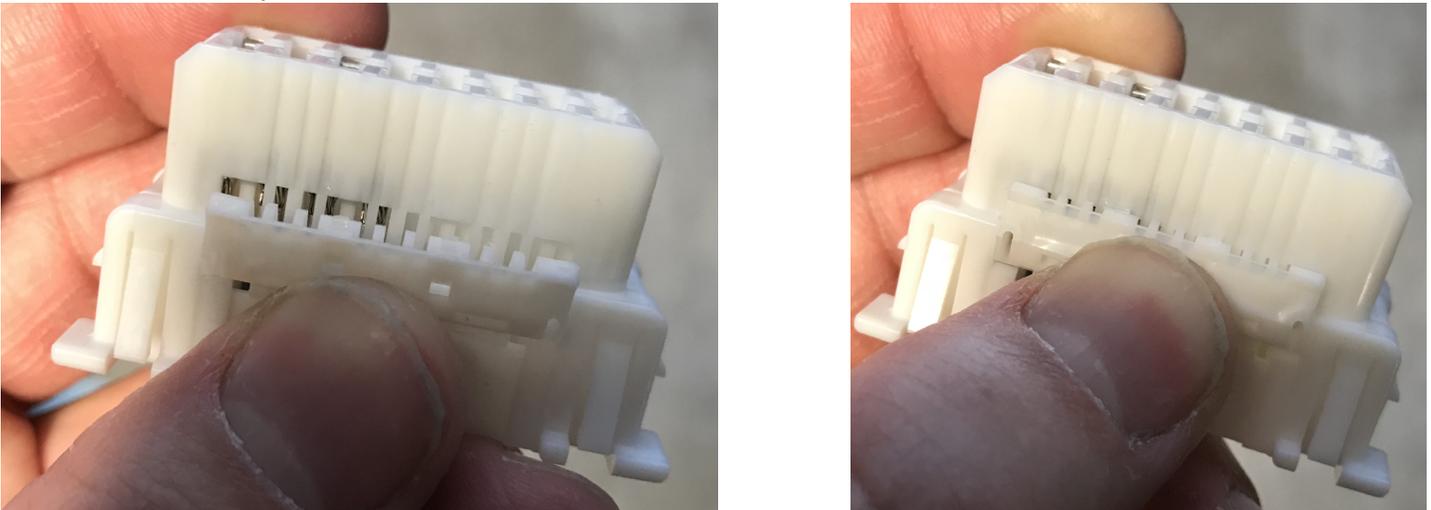


Figure 74. Cable # 1, Type C, OBD connector locked ACC1007-L only

Connecting Cable # 1 type A, B or C to cable # 2 (ACC1007-L and ACC1008-L)

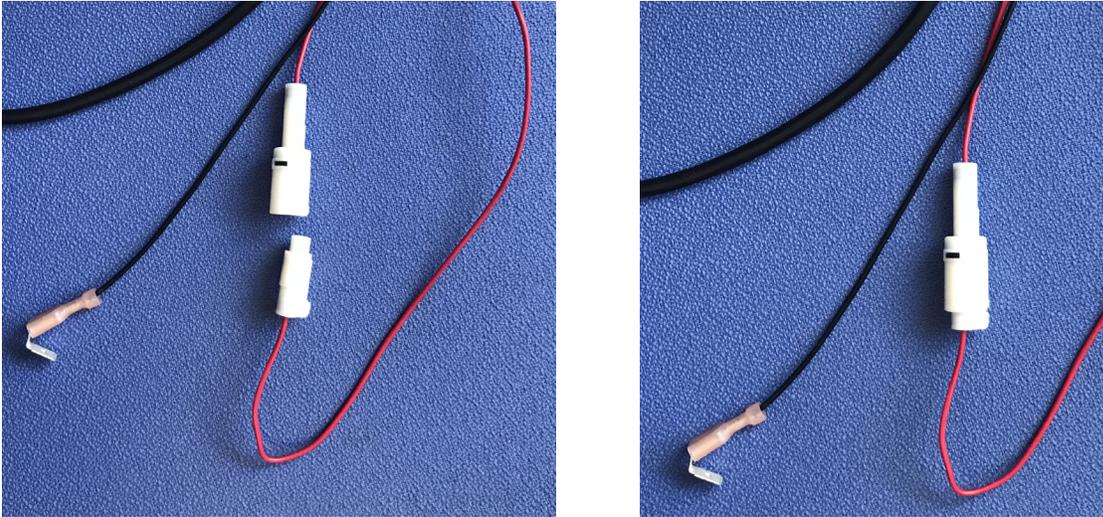


Figure 75. Connecting Cable # 1 and 2, ACC1007-L and ACC1008-L

1.7.3 Cable # 2

Connection of the ground wire to the accessory ground wire

- 1- Unplug the wires connected to the accessory outlet by pulling on the terminals located behind it. Unscrew the retaining ring. It is not necessary to completely unscrew it. Simply align the retaining ring as follows and pull:

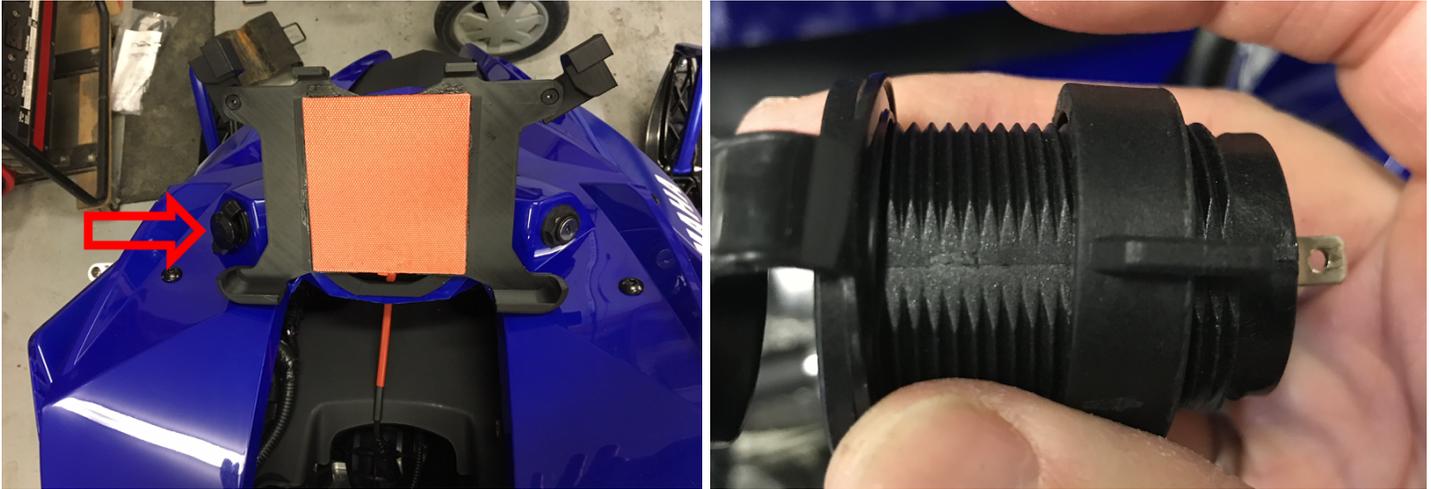


Figure 76. Accessory outlet and retaining ring

- 2- Connect the two black wires as follows and pass them through the hole of the accessory outlet.

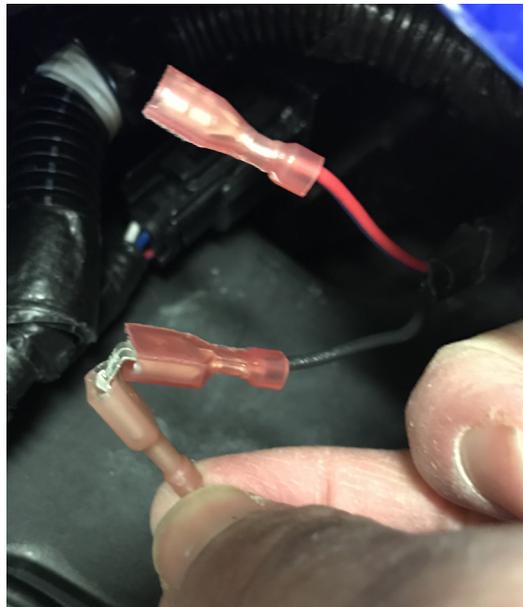


Figure 77. Black wires, ground connection

- 3- Connect the two black wires to the negative, ground (-) terminal. Connect the red wire to the positive (+) terminal.

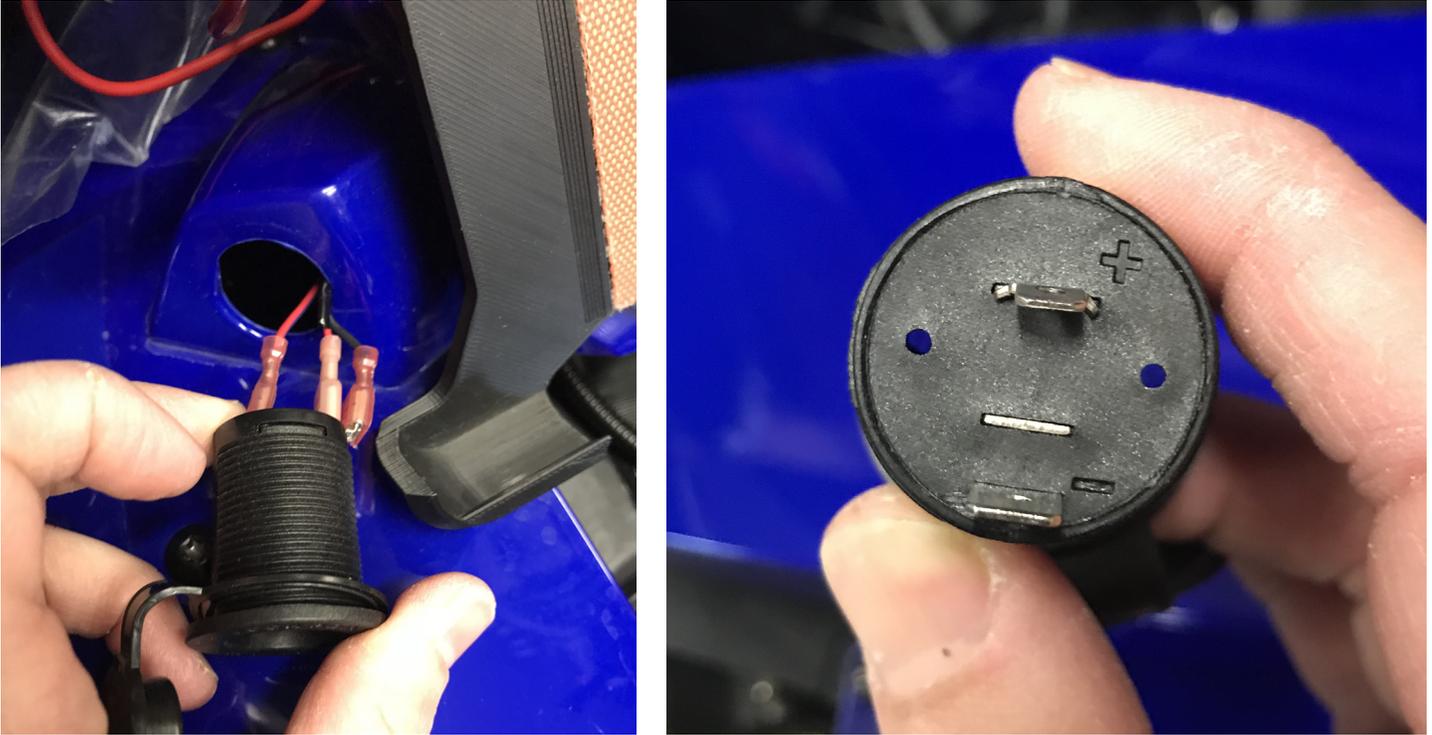


Figure 78. Cable # 2, connection at the accessory outlet, ACC1009-T or -B

- 4- Reinstall the accessory retaining ring.

Routing of the cable towards the Hood connector

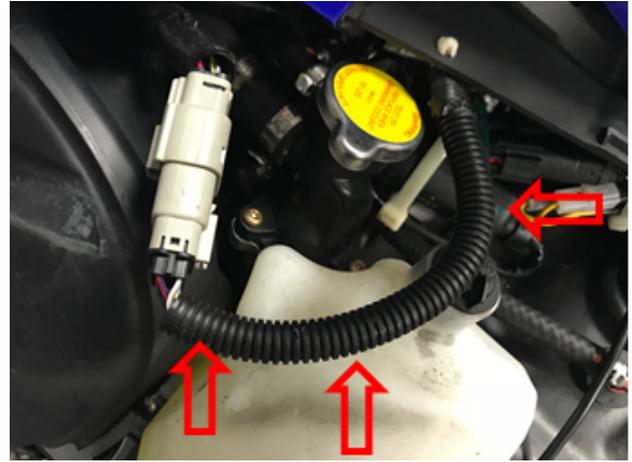
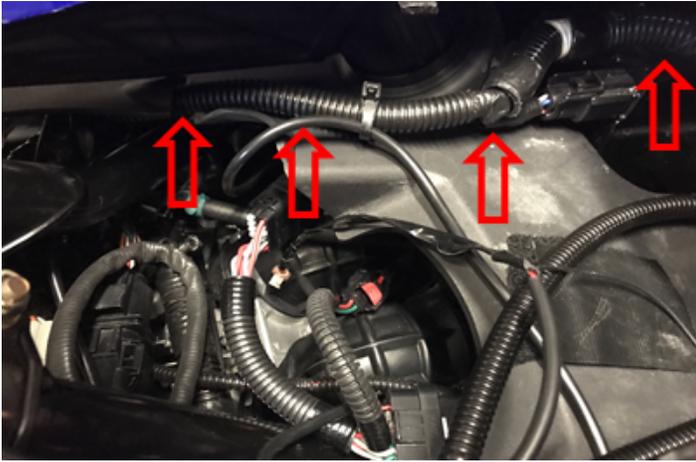


Figure 79. Routing of cable # 2 towards the Hood connector, ACC1009-T or -B

1.7.4 Cable # 3, button Installation

Refer to steps 1 to 3, [section 1.6.5](#), for how to install the button on the handlebars and route the cable.

- 4- Connect the button harness with the one previously routed to the junction of the hood harness.



Figure 80. Connection at the hood junction

1.7.5 GF1011 for ACC1008-L Installation

Please consult [section 1.4](#).

Limited Warranty

GAP Innovation warrants this product and accessories for one (1) year after the date of purchase with the exception of the AEM Wideband sensor which does not come with a warranty. The warranty covers only the GAP Flasher of the original purchaser (non-transferable) and accessories. It covers manufacturing and workmanship defects for the duration defined above. The warranty is limited to the functionality of the system and the system itself. It is the user's responsibility to use the GAP Flasher safely.

The user must return the GAP Flasher accessory to GAP Innovation to have the warranty honoured. The user must provide a proof of purchase.

The warranty is void if:

- The product has been damaged or altered in any way
- The product is damaged by water, fire, accident or other condition beyond the control of GAP Innovation
- The product has been improperly installed or misused

The warranty does not cover:

- Shipping and handling.
- Any material damages other than the GAP Flasher or accessory itself.

Under no circumstances will GAP Innovation be liable whatsoever for incidental or consequential damages. The warranty is limited to the value of the product.

Contact:

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