

AUTO-*BLiP*

INTELLIGENT DOWNSHIFTS

www.AUTO-BLiP.com

User Manual

Lotus

Version 1.2

GUIDE CHART

Signal Description	AUTO-BLIP Harness color code	Lotus wiring connections
Ground	Black	Figure 2 or alternate install Figure 5
Clutch sensor	Yellow	Figure 2
12v	White	Figure 5
Brake sensor	Blue	Figure 3
Accelerator Pedal Position Sensor 1 (APPS)	Red	Figure 4
Accelerator Pedal Position Sensor 2 (APPS)	Green	Figure 4

Tools (not all may be necessary depending on type of instal):

- Needle nose pliers
- Light (Forehead mounted recommended)
- Wire cutters / strippers - optional
- Digital Multimeter (DMM) - optional
- X-Acto knife or equivalent - optional

Connections **IGNITION MUST BE OFF DURING INSTALLATION!**

Note: When performing this installation, make sure the wire harness is securely routed away from any moving parts! If possible, secure the Auto-Blip harness to the car manufacturer's harness for added safety.

Note: Soldering the Auto-Blip harness wires (6) to the respective car wires provides for the best results. However, due to the challenge of working under the dash, this should only be done by a professional. Auto-Blip provides alternative hardware to achieve good results. This hardware must be carefully installed to achieve the desired results. **When connecting the wire harness connectors to the corresponding T-tap connectors, make sure to slide the connector completely in until it reaches the stop**

Note: This vehicle may be equipped with two switches at the clutch pedal. The Cruise Control Disable switch is usually mounted higher up under the dashboard. The Safety Interlock switch is usually down lower on the pedal where it is visible. For this installation, you will only be working with the clutch Safety Interlock switch.

Connections ~~(continued)~~

1. Using a pair of pliers, securely attach supplied wire t-taps to all the specified wires shown in **Figures 2, 3, 4 and 5.**
2. Connect the *AUTO-BLiP's* spade connectors to each of the specified t-tap as shown in **Figures 2, 3, 4 and 5.**

Lotus wire color coding

Colour Codes:

B=BLACK

G=GREEN

K=PINK

LG= LIGHT GREEN

N=BROWN

O=ORANGE

P=PURPLE

R=RED

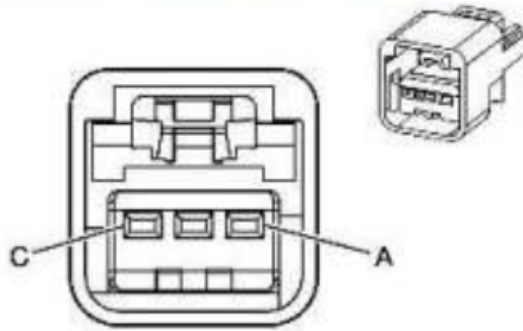
S=SLATE

U=BLE

W=WHITE

Y=YELLOW

ATTENTION! ~~AUTO-BLiP~~ will not work until you complete the **CALIBRATING UNIT** process on page 10



Pin	Signal
A	Ground Reference
B	Clutch Pedal Position Sensor Signal
C	5V

Figure 1 (Clutch pedal position sensor connector)

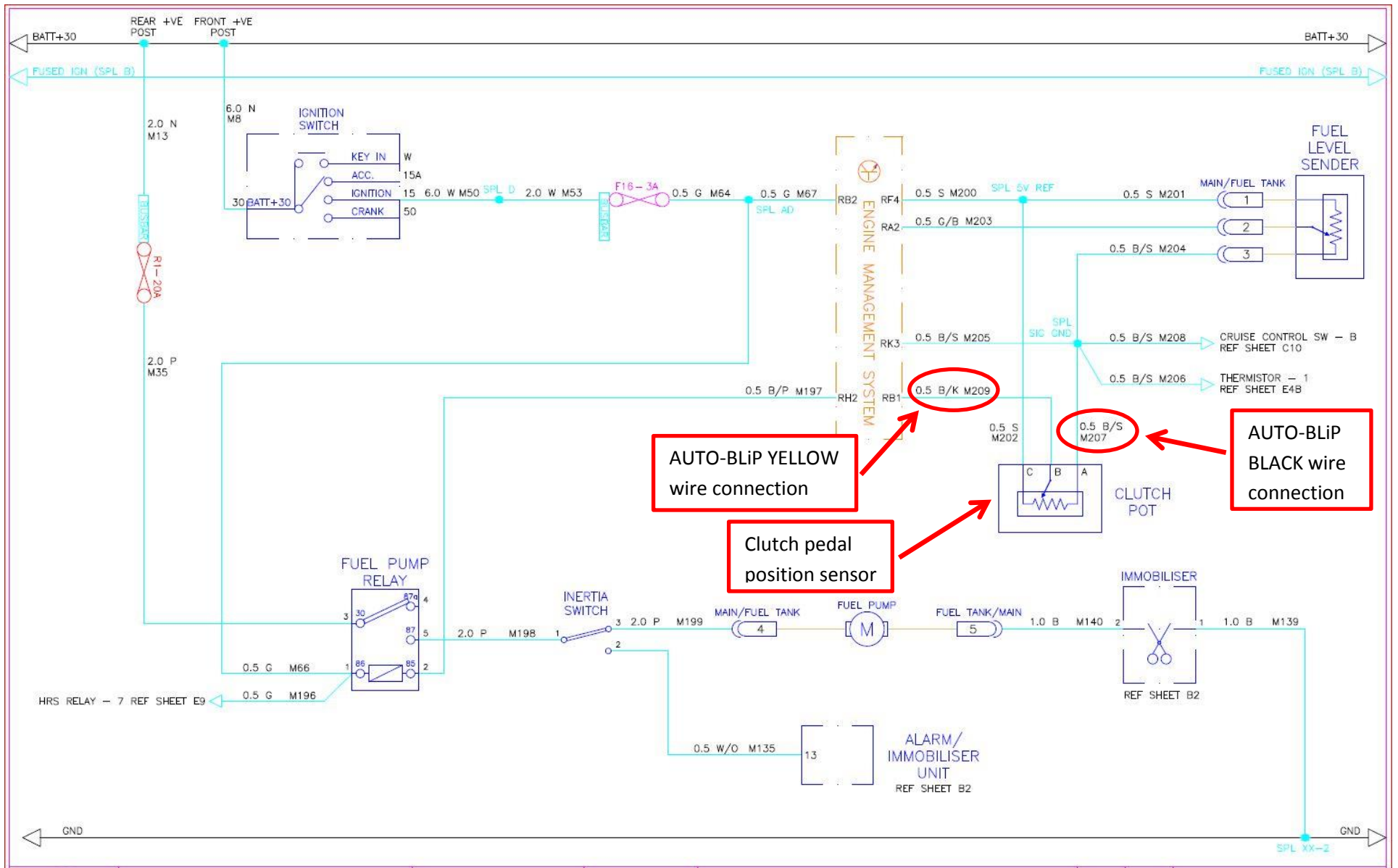


Figure 2 (Clutch pedal sensor wiring diagram)

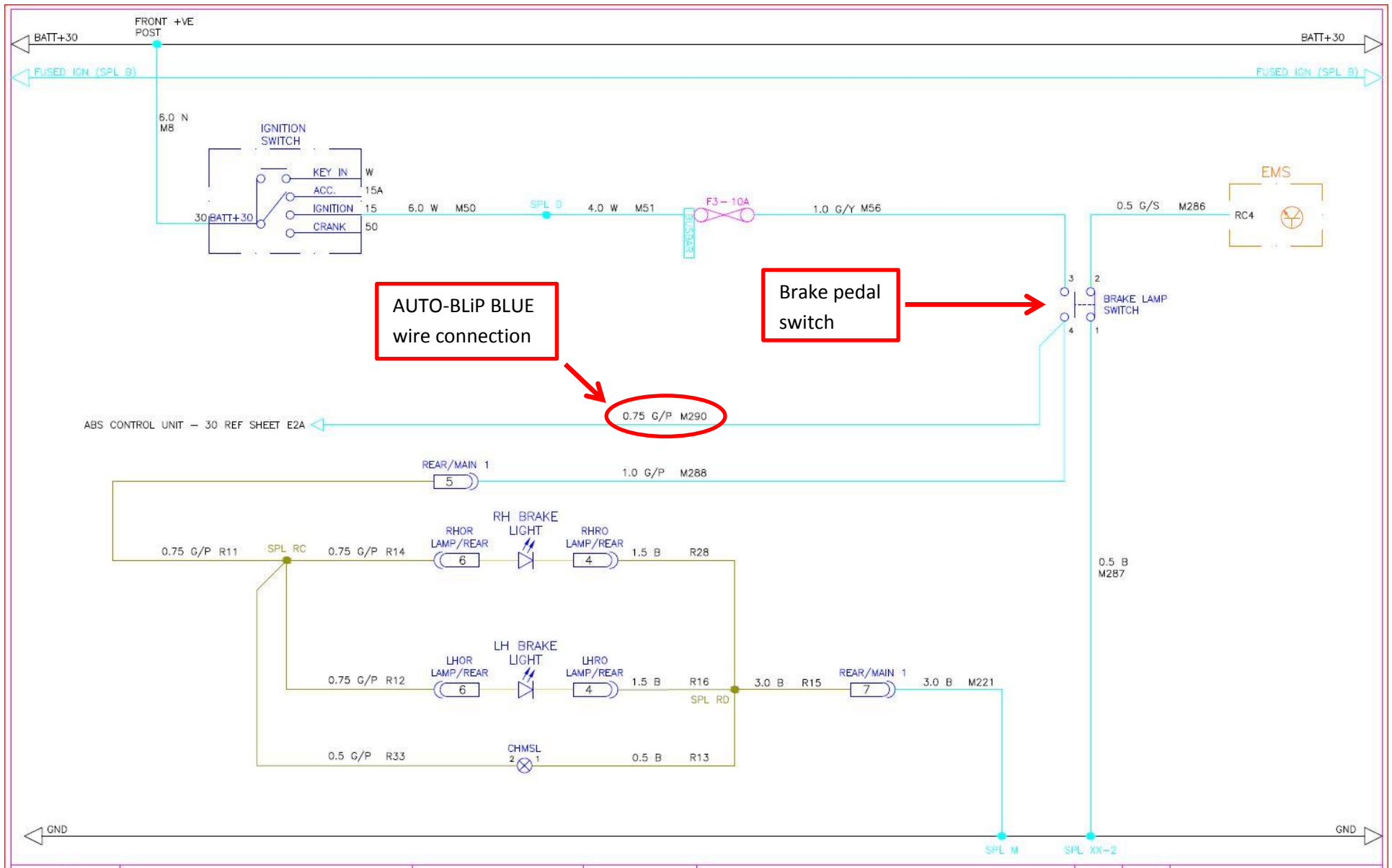


Figure 3 (Brake pedal sensor wiring diagram)

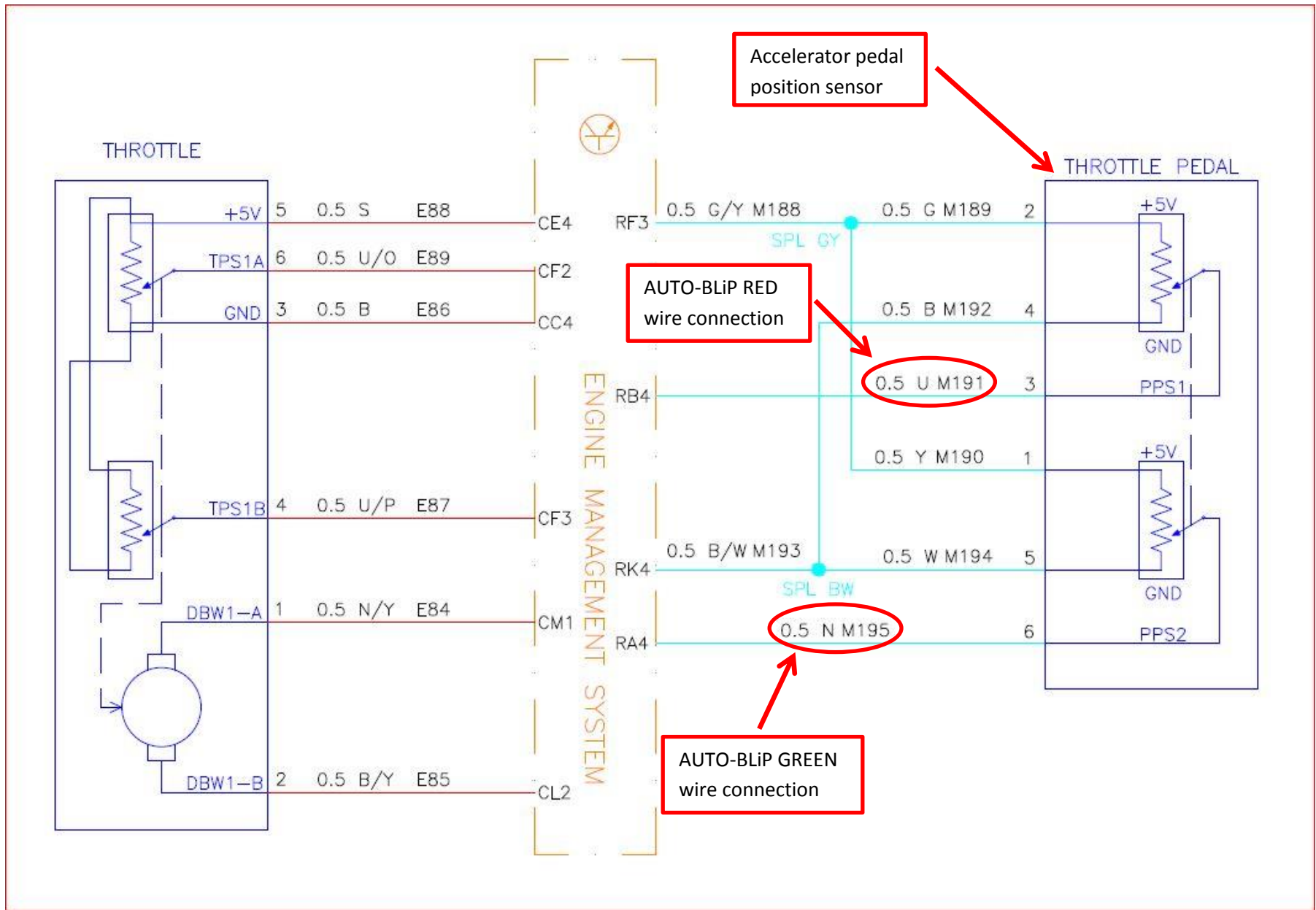


Figure 4 (Accelerator pedal sensor wiring diagram)

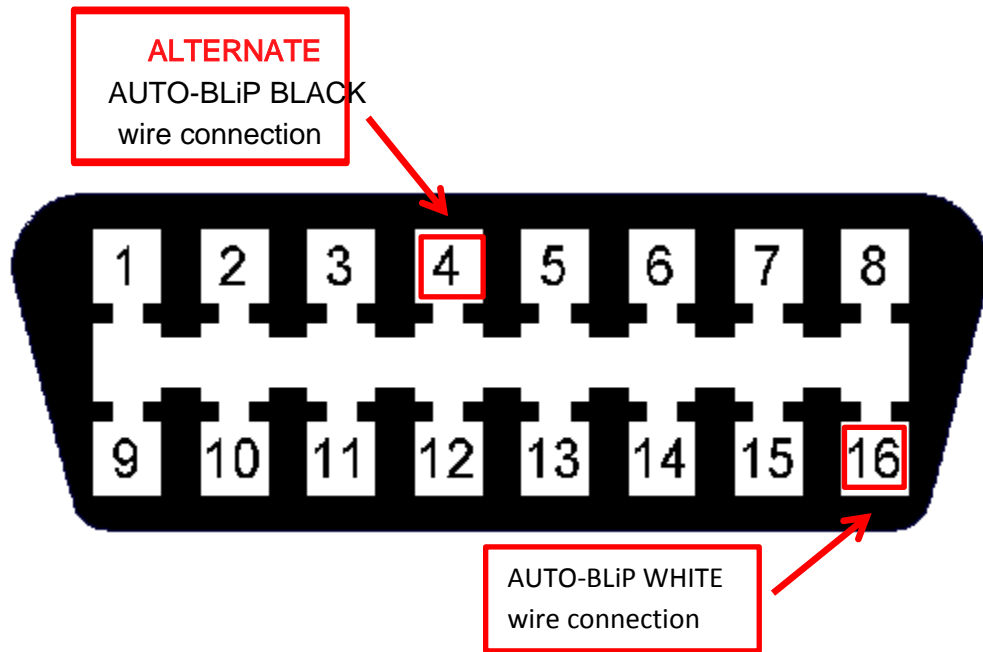
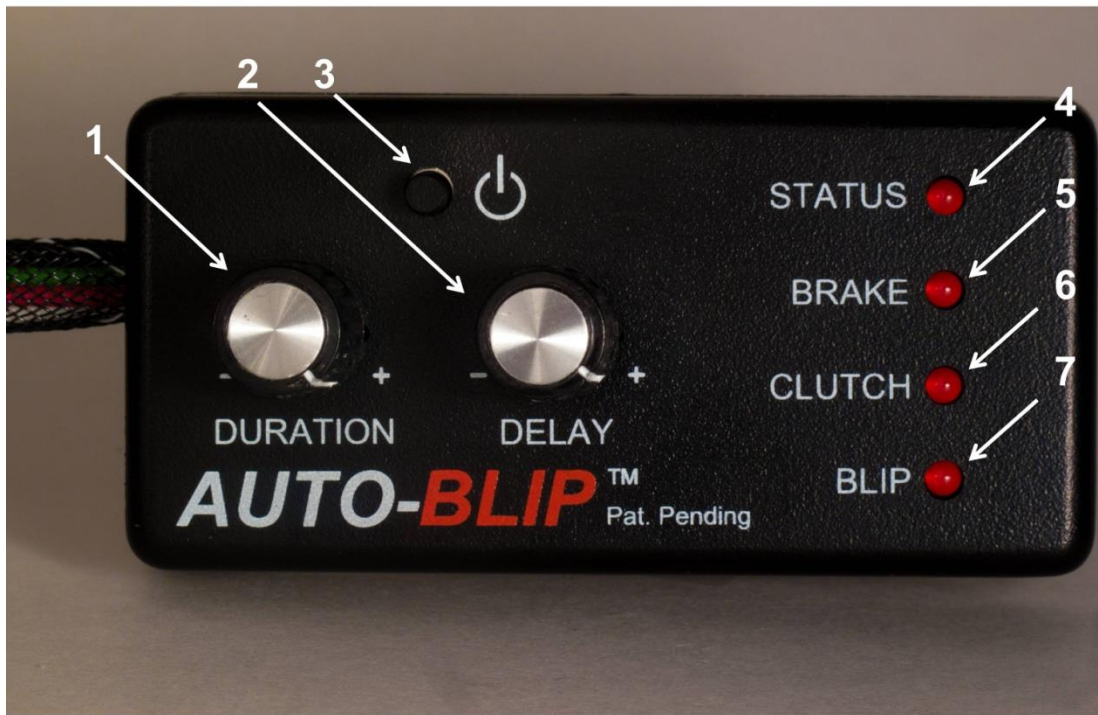


Figure 5 (OBD 2 Connector 12v supply & alternate placement for Ground)

HOW IT WORKS



1. The "DURATION" dial determines the RPM blip level by opening the throttle. Turn dial clockwise to increase RPM blip level.
2. The "DELAY" dial allows for the insertion of a coast when the unit blips the throttle. Turn dial clockwise to increase delay. Range from 0 to 0.5 seconds.
3. The ON/OFF button will toggle between the ON and OFF mode. The unit will default to the ON state upon power up.
Note: This button is also use to enable the calibration mode. Refer to the Calibrating Unit section below for more details.
4. The "STATUS" LED turns on when the unit is ON.
5. The "BRAKE" LED turns on when the brake pedal is pressed.
6. The "CLUTCH" LED turns on when the clutch pedal is pressed.
7. The "BLIP" LED turns on when a throttle blip event occurs.

Note: The *AUTO-BLIP* will automatically turn OFF after 6 hours of inactivity. It will remain OFF until the ON/OFF button is pressed or power to the unit is removed and re-applied.

The *AUTO-BLIP* monitors your auto throttle only when the clutch pedal is being depressed while simultaneously braking.

CALIBRATING UNIT

In order for your AUTO-BLiP unit to function properly, you must first perform the calibration sequence outlined in this section!!!

1. Turn on ignition, but do not start engine. *AUTO-BLiP* "STATUS" LED light will light up. If not, turn ignition off and verify the power supply and ground connectors are fully seated.
2. Set the "Dial" completely counter clockwise (-) and the "DELTA" to the 12 o'clock position.
3. To enter the calibration mode, press and hold down the ON/OFF button (about **10** seconds) until the "STATUS" LED continuously blinks **(1)** time followed by a short pause.
4. Press and hold the accelerator pedal approximately 60%. While holding the accelerator pedal open, press and release the ON/OFF button once, continue to hold the accelerator pedal down. This step records full open throttle pedal position.
5. At this point the "STATUS" LED light will blink **(2)** times followed by a short pause. Completely release the accelerator pedal. With the accelerator pedal completely released, press and release the ON/OFF button once. This step records your vehicle's close throttle pedal position.
6. At this point the "STATUS" LED light will blink **(3)** times followed by a short pause. Press the brake pedal. With the brake pedal completely pressed, press and release the ON/OFF button once, continue to hold the brake pedal down. This step records your vehicle's pressed brake pedal position.
7. At this point the "STATUS" LED light will blink **(4)** times followed by a short pause. Completely release the brake pedal. With the brake pedal completely released, press and release the ON/OFF button once. This step records your vehicle's released brake pedal position.
8. At this point the "STATUS" LED light will blink **(5)** times followed by a short pause. Press the clutch pedal to the position where you want the AUTO-BLiP to activate. With the clutch pedal pressed, press and release the ON/OFF button once, continue to hold the clutch pedal pressed position. **(See Note 1)**
9. At this point the "STATUS" LED light will blink **(6)** times followed by a short pause. Release the clutch pedal approximately 1/2" to 1" from the pressed position. Press and release the ON/OFF button once. This step records your vehicle's desired clutch pedal position.
10. This completes calibration of the *AUTO-BLiP* unit!

Note 1: This vehicle is equipped with an analog position sensor. This allows the user to set where in the pedal travel position the *AUTO-BLiP* blips the throttle.

Note: When properly calibrated, when the corresponding pedal is pressed, the "STATUS" LED will blink.

The *AUTO-BLiP* features a diagnostic function that will warn the user when the *AUTO-BLiP*'s calibration routine fails to properly recognize the accelerator pedal position sensor (APPS), BRAKE, and/or CLUTCH signals. Failures related to the BRAKE and/or CLUTCH will prevent the unit from exiting the calibration sequence. This is done to prevent *AUTO-BLiP* from blipping the throttle at the incorrect time. When a failure is detected the *AUTO-BLiP* will continuously blink the "BRAKE", "CLUTCH" and "APP" LEDs, signaling a failure during calibration of the respective signals. Press and release the ON/OFF button once to re-start the calibration sequence from the beginning.

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AUTO-BLiP LIMITED WARRANTY

Tractive Technology, LLC warrants this product against defects in material and workmanship for the period of 90 days. The warranty period begins with the date of original retail purchase.

This limited warranty is made only to the original end user purchaser ("you") of the product and does not extend to any subsequent purchasers or owners of the product. The "original end user" is the first user to put the product into service in any fashion. It is your responsibility to establish the warranty period by verifying the original purchase date.

If you discover a defect, Tractive Technology, LLC will, at its option, repair or replace this product with a new or reconditioned product at no charge to you, provided you return it during the warranty period, with transportation charges prepaid, to Tractive Technology, LLC. (You can obtain additional information by contacting Tractive Technology, LLC at the address printed on the card). Please attach your name, address, telephone number, and a copy of the bill of sale as proof of date of original retail purchase, as well as a detailed description of the problem for which service is requested. Prior to returning the product, you must obtain from Tractive Technology, LLC a Return Merchandise Authorization Number (RMA#). You are responsible for packing the product to be returned. If the repairs are covered by the Limited Warranty and if the product was properly shipped to Tractive Technology, LLC, Tractive Technology, LLC will pay the return shipping charges. This warranty applies only to AUTO-BLiP product manufactured by Tractive Technology, LLC that can be identified by the "AUTO-BLiP" trademark, trade name, or logo affixed to them. This warranty does not cover damage resulting from an accident, misuse, abuse, or neglect and/or damage during any type of transportation resulting from improper packaging; damage to any product which has been altered in any fashion, including the alteration or removal of any Tractive Technology, LLC serial number; damage resulting from causes other than product defects, including and not by way of limitation, lack of technical skill, competence, or experience of the user, and/or failure to use the product in accordance with the instructions provided in the User's Manual; and service performance by an unauthorized person or entity. Any implied warranties including fitness for use and merchantability are limited in duration to the period of the expressed warranty set forth above. The remedies provided under this warranty are exclusive and in lieu of all others. Tractive Technology, LLC hereby expressly disclaims liability and shall not be responsible for incidental, consequential and contingent damages or any kind of nature, including, without limitation: damages to persons or property, whether a claim for such damages is based upon warranty, contract, tort or otherwise; damages to persons or property, whether a claim for such damages is based upon warranty, contract, tort or otherwise; damages due to or arising out of the loss of date; or lost of profits. Tractive Technology, LLC shall not be responsible for any damages caused by the presence of error or omission in any of its manuals, instructions or related materials.

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