BLU-GM29

GM LAN 29bit
Universal Bluetooth
Integration Interface

The BLU-GM29 is a universal Bluetooth integration interface designed to work with multiple aftermarket Bluetooth kits. By utilizing the OnStar commands found in 29bit GM LAN vehicles, the BLU-GM29 allows your phone audio to be heard through the vehicle's speakers and gives you control of the EGO TALK & Parrot CK3000 through the factory steering wheel controls. The BLU-GM29 is designed to be a plug-and-play interface with these kits, however it can be used with any aftermarket Bluetooth kit (hardwire connections required). Please see below for all installation and control instructions.

EGO TALK

Installing the BLU-GM29 with the EGO TALK: Plug the 12-pin connector on the supplied EGO2SPLIT harness into the 12-pin receptacle on the SPLITGM29 harness. Plug the free ends of the EGO2SPLIT harness into the EGO TALK control box. **This must be done BEFORE the SPLITGM29 harness is connected to the vehicle. Please note that the BLU-GM29 does not support A2DP streaming audio. If you want to enable the A2DP streaming audio out of the EGO TALK, the purchase of a seperate vehicle specific auxiliary input is required.**

Controlling the EGO TALK with the BLU-GM29:
To turn Bluetooth controls on or off, press and hold the Source button on the steering wheel. After one second you will hear either one or two confirmation chimes. You MUST release the button as soon as you hear the chime. If you do not release the button within one second after the chime is heard the button will revert to it's factory function of changing the source. One chime indicates that the Bluetooth controls are on; two chimes indicates that the Bluetooth controls are off.

When the Bluetooth controls are activated, the driver information center will display **"BT Control ON"**. Whenever a call is incoming or active, the steering wheel controls automatically switch to Bluetooth control.

When the Bluetooth controls are de-activated or a call is ended, the driver information center will display **"BT Control Off"**. Once a call is ended the steering wheel controls automatically switch back to their factory functions.

Volume Control/Level Matching:
This feature is very important for matching the volume level of the EGO kit to the radio. When you first install the EGO kit with the BLU-GM29 the volume may be very loud and distorted. The volume controls on the steering wheel have two functions while in the "BT Control On" mode. Press and hold the OnStar/Mute button until a beep is heard to toggle between the two functions.

Function 1 (Radio Volume): The default setting for the volume controls on the steering wheel will adjust the volume of the radio.

Function 2 (EGO Volume): The volume controls on the steering wheel will adjust the volume of the EGO kit.
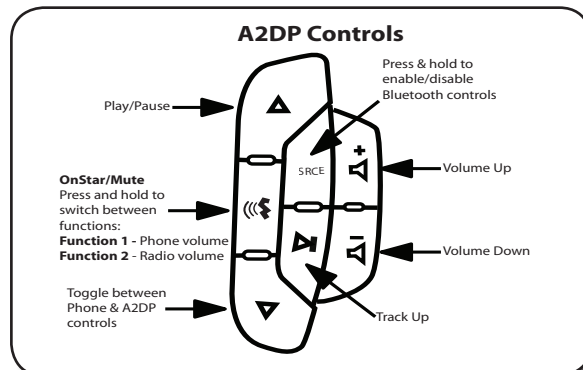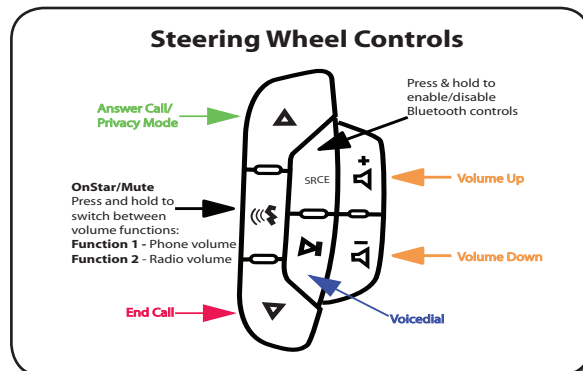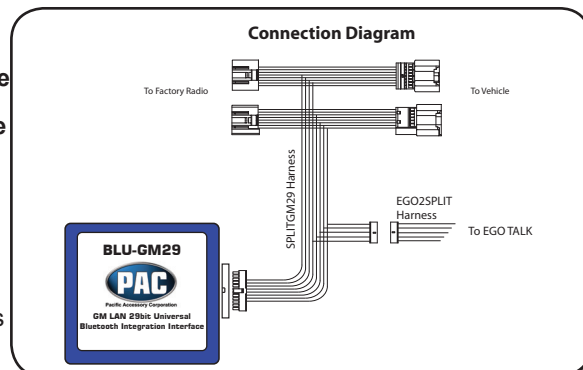By switching between radio volume and EGO kit volume, you can now adjust the volumes and match them to an acceptable level. Once the volume level of the EGO kit is set you should not have to change it again as all other volume control can be done though the radio or the phone itself.

To Enter Volume Control Mode:
1. Must be in "BT Control On" Mode
2. Press & hold the OnStar/Mute button until a beep is heard. The driver information center will display "BT Volume On"
3. The volume buttons on the steering wheel will now control the EGO volume
4. Repeat #2 to turn off Bluetooth volume controls

A2DP Controls:
If you are also using the A2DP audio output of the EGO kit (seperate auxiliary input required), you can use the steering wheel controls to track up or play/pause. In order to utilize the A2DP controls, the steering wheel controls must be set to "BT Control ON". Now press the down arrow on the steering wheel to toggle between A2DP or Phone controls.

Connection Diagram

To Factory Radio

To Vehicle

SPLITGM29 Harness

EGO2SPLIT Harness

To EGO TALK

BLU-GM29
Pacific Accessory Corporation
GM LAN 29bit Universal
Bluetooth Integration Interface

Steering Wheel Controls

Press & hold to enable/disable Bluetooth controls

Answer Call/ Privacy Mode

Volume Up

OnStar/Mute
Press and hold to switch between volume functions:
Function 1 - Phone volume
Function 2 - Radio volume

SRCE

Volume Down

End Call

Voicedial

A2DP Controls

Press & hold to enable/disable Bluetooth controls

Play/Pause

Volume Up

OnStar/Mute
Press and hold to switch between functions:
Function 1 - Phone volume
Function 2 - Radio volume

SRCE

Volume Down

Toggle between Phone & A2DP controls

Track Up

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Page 1

Parrot CK3000

Installing the BLU-GM29 with the Parrot CK3000: If you are installing the BLU-GM29 into a vehicle that is not equipped with factory steering wheel controls, the controller that came with the Parrot MUST be used. Please see the section below on "All Other Bluetooth Kits" for hard-wiring information. Otherwise, plug the 12-pin connector on the supplied PARROT2SPLIT harness into the 12-pin receptacle on the SPLITGM29 harness. Plug the free ends of the PARROT2SPLIT harness into the Parrot CK3000 control box. **This must be done BEFORE the SPLITGM29 harness is connected to the vehicle.**

Controlling the Parrot CK3000 with the BLU-GM29:
To turn Bluetooth controls on or off, press and hold the Source button on the steering wheel. After one second you will hear either one or two confirmation chimes. You MUST release the button as soon as you hear the chime. If you do not release the button within one second after the chime is heard the button will revert to it's factory function of changing the source. One chime indicates that the Bluetooth controls are on; two chimes indicates that the Bluetooth controls are off.
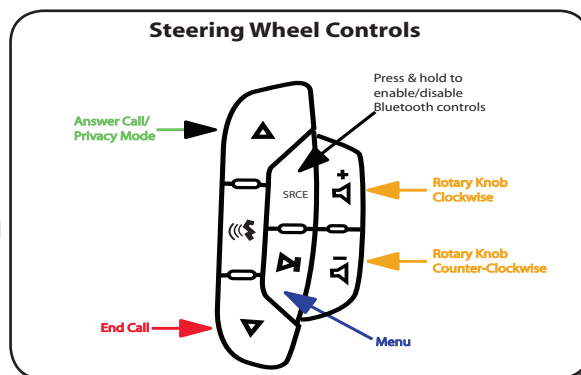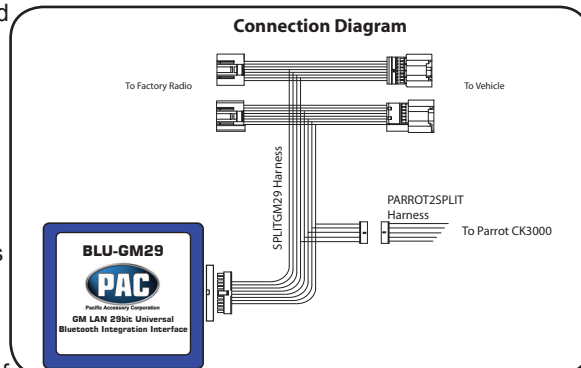
When the Bluetooth controls are activated, the driver information center will display **"BT Control ON"**. Whenever a call is incoming or active, the steering wheel controls automatically switch to Bluetooth control. If you would like to access the features menu of the Parrot CK3000 you MUST activate Bluetooth controls before this can be done.

When the Bluetooth controls are de-activated or a call is ended, the driver information center will display **"BT Control Off"**. Once a call is ended the steering wheel controls automatically switch back to their factory functions.

Volume Control/Level Matching:
It is very important that you match the volume level of the Parrot kit to the radio. When you first install the Parrot kit with the BLU-GM29 the volume may be very loud and distorted. While in the "BT Control On" mode, the volume controls on the steering wheel will act exactly like the rotary knob on the Parrot control unit. This allows you to scroll through the Parrot menus and access the volume setting along with other features. To match the volume levels, press and hold the Source button on the steering wheel until a beep is heard. Press the "Play/Pause" button on the steering wheel, you should hear the Parrot kit's menu prompt. Use the volume controls on the steering wheel to scroll through the choices until the Parrot kit says "Volume". Press the "Play/Pause" button on the steering wheel to select volume adjustment. You can now adjust the volumes and match them to an acceptable level (the radio volume must be adjusted by the volume knob on the radio).Once the volume level of the Parrot kit is set you should not have to change it again as all other volume control can be done though the radio or the phone itself.

Clearing Phones Stored in Memory: Enter the BT Control on mode by pressing and holding the Source button on the steering wheel. Within 2 seconds of releasing the Source button press the "Play/Pause" button and hold it for 5 seconds or until you hear "Memory erasing in progress – please wait". (This feature is only present on revision 1.1.3a or higher of the BLU-GM29)

Connection Diagram

Steering Wheel Controls

All Other Bluetooth Kits

Installing the BLU-GM29 with other Bluetooth kits: If you are installing the BLU-GM29 with any Bluetooth kit other than the EGO TALK or Parrot CK3000 you will have to cut the 14-pin plug off of the EGO2SPLIT harness and hardwire the unit to the Bluetooth kit. Please note that the steering wheel controls WILL NOT function and you MUST use the controller with any Bluetooth kit other than the EGO TALK or Parrot CK3000.

Cut the 14 pin connector off of the EGO2SPLIT harness and wire it directly to the Bluetooth kit. Once all connections are made and secured, plug the 12-pin connector on the supplied EGO2SPLIT harness into the 12-pin receptacle on the SPLITGM29 harness. This must be done BEFORE the SPLITGM29 harness is connected to the vehicle.

When the Bluetooth kit is active the driver information center will display "**BT Connected**". Once the Bluetooth kit has been de-activated the driver information center will display "**BT Off**".

(wire insertion side)
14 Pin Molex

Pin #	Function	Color
1	Ground (-)	Black
2	Mute Input (-)	Yellow/Red
3	n/a	
4	n/a	
5	n/a	
6	n/a	
7	Audio Input (+)	White/Blue
8	Battery 12v	Yellow
9	Acc 12v	Red
10	n/a	
11	n/a	
12	n/a	Black
13	n/a	
14	Audio Input (-)	Black/White

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Installation/Compatibility Notes

1. If you are in a BLU-GM29 call and OnStar is activated, the driver information center will display "Call" and beeps can be heard through the speaker. If you want to answer the OnStar call/prompt, you MUST end the active call on the BLU-GM29.

2. **In Cadillac SRX and other vehicles not equipped with a "play/pause" button on the SWC :**
   a. Parrot kit will have to be hardwired and Parrot controller must be used.

3. **In cars without steering wheel controls:** Only the EGO TALK will be plug-and-play. All other kits must be hardwired.

4. The BLU-GM29 does not stay powered on with the RAP system; it will shut down as soon as the ignition is cycled off. If you are on a call when exiting the vehicle using the Parrot CK3000, the call audio will automatically switch to the handset. However if you are on a call when exiting the vehicle using the EGO TALK, you must manually disconnect the call from the handset as the EGO will remain powered on as long as a call is active.

5. If you are using OnStar "Turn By Turn" navigation you cannot use the BLU-GM29 as the OnStar text and SWC functions for OnStar take priority. Also, if you have low fuel. low tire pressure, etc you will not be able to see any BLU-GM29 text until these warnings are cleared away.

6. If you are using a Bluetooth kit that supports A2DP audio, iPod, Aux or USB out of the actual audio wires on the Bluetooth kit (like the Parrot MKi9200), the audio will only be heard out of the front speakers. This is because we are emulating OnStar and OnStar does not support 4 speaker mode.

7.**If this interface is being installed with a NU-GM29:** The BLU-GM29 has to be installed towards the vehicle harness for both to operate correctly. The NU-GM29 should be connected to the radio, the BLU-GM29 connected to the NU-GM29 harness, then the BLU-GM29 harness connected to the vehicle side.
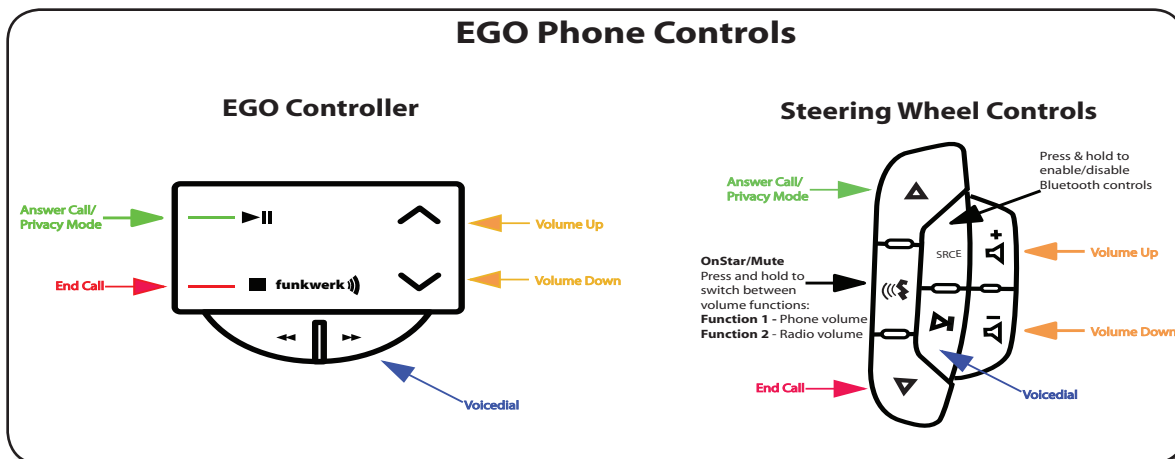
Troubleshooting

1. Control/Recognition Issues - The Bluetooth kit specific harness MUST be connected to the SPLIT-GM29 harness BEFORE connecting the BLU-GM29 module. The BLU-GM29 module MUST be connected to the harness BEFORE connecting to the vehicle. If the radio does not power on after you have installed the BLU-GM29, follow the steps below to reset the interface:
   a. With the door open, turn the ignition off
   b. Unplug the 24 pin harness from the BLU-GM29
   c. Plug the 24 pin harness back into the BLU-GM29
   d. Turn the ignition back on

2. Poor Sound Quality During Calls - The audio level of the Bluetooth kit needs to be matched to the radio volume. Please refer to your specific Bluetooth kit's "Volume Control/Level Matching" section above.

3. Recommended Bluetooth Option Settings for Phone (refer to the phone's instruction manual for these settings) –

   a. Headset Disabled
   b. Handsfree Enabled
   c. Audio Source Disabled
   d. A/V Remote Control Target

4. If you are having trouble familiarizing yourself with the steering wheel buttons and their functions, it may be easier to plug the Bluetooth kit's control unit in to get a feel for how it works.
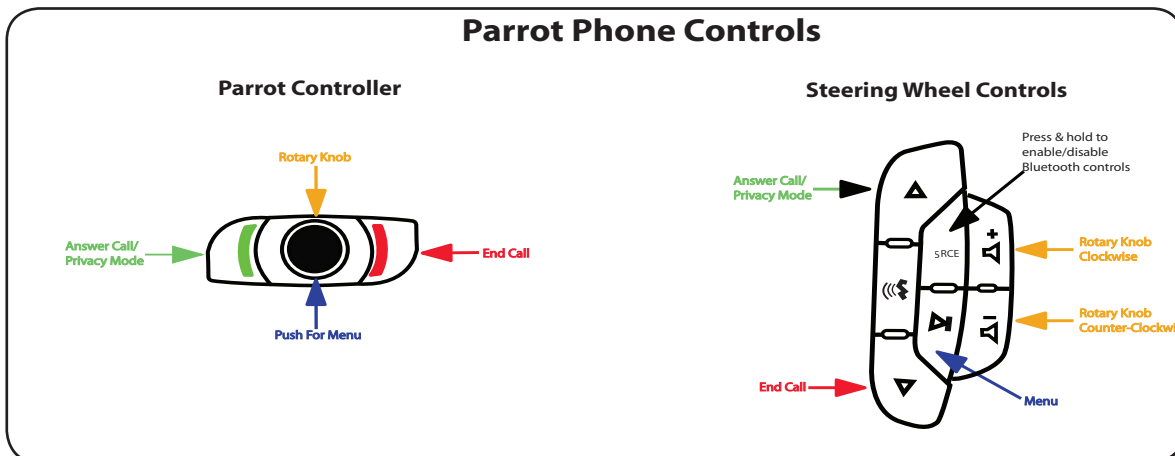
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Bluetooth Control Cross Reference

EGO Phone Controls

EGO Controller

Answer Call/ Privacy Mode

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End Call

Volume Up

Volume Down

Voicedial

Steering Wheel Controls

Answer Call/ Privacy Mode

Press & hold to enable/disable Bluetooth controls

OnStar/Mute
Press and hold to switch between volume functions:
Function 1 - Phone volume
Function 2 - Radio volume

SRCE

Volume Up

Volume Down

End Call

Voicedial

Parrot Phone Controls

Parrot Controller

Rotary Knob

Answer Call/ Privacy Mode

End Call

Push For Menu

Steering Wheel Controls

Answer Call/ Privacy Mode

Press & hold to enable/disable Bluetooth controls

SRCE

Rotary Knob Clockwise

Rotary Knob Counter-Clockwise

End Call

Menu

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Page 4