

BLUETOOTH MODULE

WIRELESS CONNECTION TO CELL PHONE

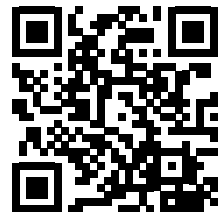


MODEL # : 091-226

INPUT: 11-30 vDC, 0.25 aDC

File: IM_091-226_revC.indd
Rev: C
Revised By: JM
Date: 06-16-2015

3 YEAR WARRANTY



scan using your mobile device for more information

170 Cherry Avenue
West Sayville, NY 11796
www.kussmaul.com



Ph: 800-346-0857
Fax: 631-567-5826
sales@kussmaul.com

IMPORTANT SAFETY INSTRUCTIONS

- Review all package contents before proceeding with the installation.
- Read all safety and operation instructions before installing and using your Bluetooth Module.
- Do not expose the Bluetooth Module to liquid, moisture, or areas of high humidity.
- Do not expose the Bluetooth Module to extremely high or low temperatures.
- Do not attempt to open or modify the Bluetooth Module in any way.

WARNING: To reduce the risk of fire or electric shock, do not expose the Bluetooth Module to water or moisture.

INTRODUCTION

The **Kussmaul Bluetooth Module 091-226** provides a fully integrated solution for delivering high-quality stereo audio in a small form factor.

- Seamlessly stream music from any Bluetooth capable device
- Music player controls - Play, Pause, Previous Song, Next Song
- Connect via Bluetooth with phone to receive phone calls
- Supports Bluetooth Profiles: Bluetooth v4.1 (specification support), HFP v1.6, HSP v1.2, A2DP v1.2, AVRCP v1.4, DI v1.3

SYSTEM DESCRIPTION

The Model 091-226 Bluetooth Module consists of 3 major components:

- I. **Bluetooth Module**
- II. **Audio Splitter**
- III. **Audio Cable**

I. Bluetooth Module

The Bluetooth Module provides a connection for audio between any Bluetooth capable device and your vehicle's stereo. It contains 2 LEDs labeled "PAIR" and "READY" which show the state of connection the Bluetooth Module is in. There are also 3 buttons which give you the ability to pause your song and resume playing it, play the previous song, or fast forward to the next song. Refer to Operation - Indicators.

II. Audio Splitter

The Audio Splitter contains three connectors to provide a connection between the Bluetooth Module, the vehicle's stereo, and a microphone (not included):

- a. Splitter Link: 3.5mm, 4 Position, Male Connector
- b. Audio Output: 3.5mm, 3 Position, Female Connector
- c. Microphone Input: 3.5mm, 3 Position, Female Connector

III. Audio Cable

The Audio Cable contains two 3.5mm male connectors for connecting the Audio Output on the Audio Splitter to the vehicle's Stereo Aux Input. This provides the link necessary for the Bluetooth Module to send audio to the vehicle's stereo.

FEATURES

- Bluetooth version 4.1 specification compliant audio module
- Advanced Echo Cancelling and Wind Noise Reduction
- Dual-channel, differential audio output for highest quality audio
- Bluetooth Profiles include HFP v1.6, HSP v1.2, A2DP v1.2, AVRCP v1.4, DI v1.3
- Fully compatible with Bluetooth version 2.1+EDR, 1.2, and 1.1
- Audio Decoders include SBC, MP3, AAC, and Faststream decoder support
- A2DP Multipoint support enables the connection of 2 A2DP source devices to CSR8635 QFN at the same time (for example; listen to music on a PC or Tablet and receive calls on a Cell Phone)
- Operation Range is 10 meters (33 feet)

INSTALLATION

1. Install into Dashboard

- The Bluetooth Module can fit into a 0.83" x 1.45" (minimum) opening.

2. Connect to Battery

- Connect the red wire to vehicle's accessory circuit using a 1 amp fuse.
- Connect the black wire to chassis (ground).
Refer to Installation Wiring Diagram - Bluetooth Module Electrical Wiring.

3. Connect to Stereo & Microphone

- Plug the Splitter Link on the Audio Splitter (provided) into the Bluetooth Module's Audio Connector.
- Connect the Stereo Aux Input to the Audio Output on the Audio Splitter, using the Audio Cable (provided).
- Connect a Microphone (not included) with a 3.5mm audio connector to the Microphone Input on the Audio Splitter.

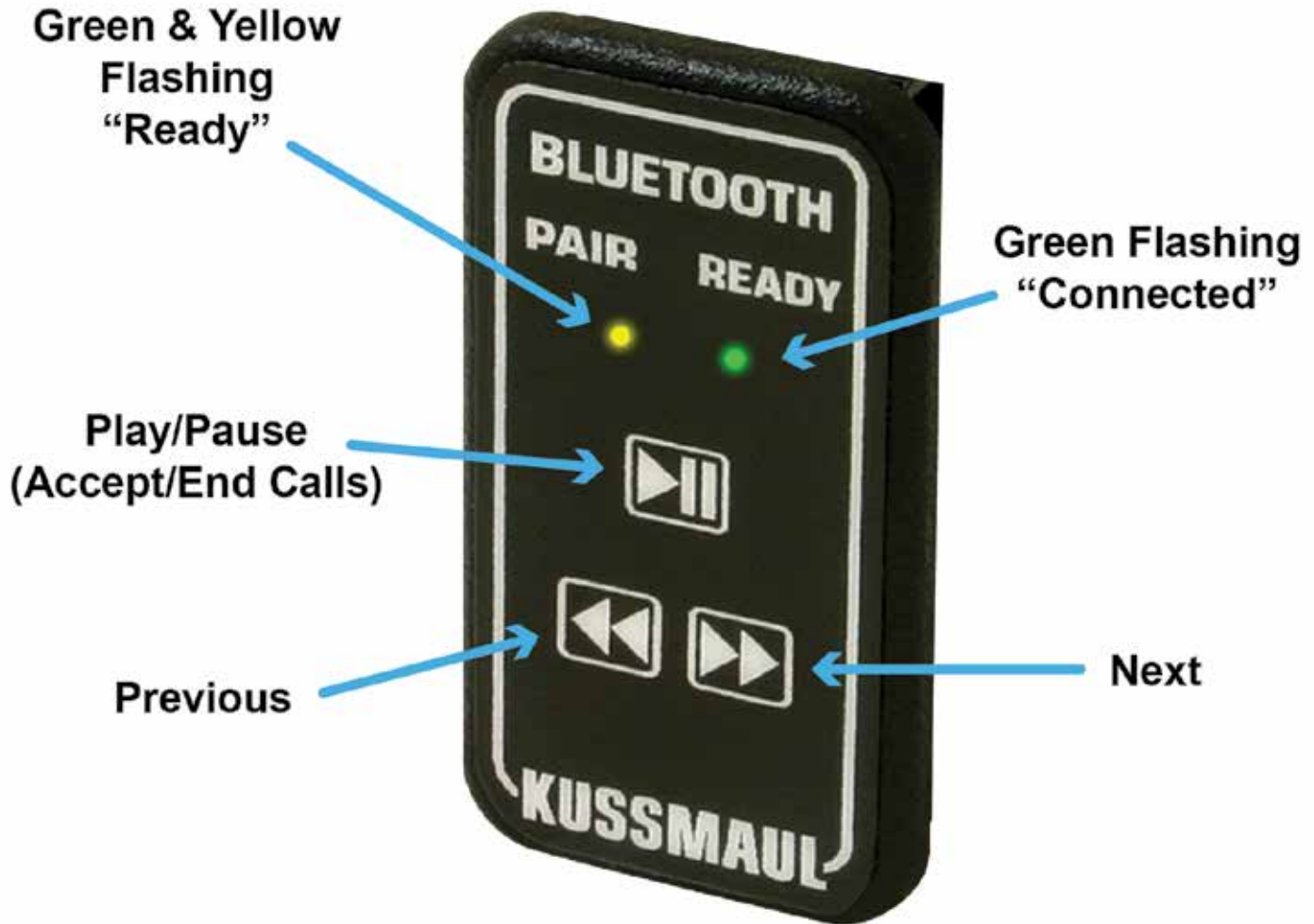
OPERATION

I. Pairing

1. The Bluetooth Module is ready to be paired when powered on with the vehicles accessories.
2. "Scan" Bluetooth on your phone or device. "Kusssmaul 091-226-x" (where x is the revision) will appear as paired on your phone or device.
3. Select "Kusssmaul 091-226-x" on your phone or device to connect to the Bluetooth Module.
The Bluetooth device is now ready to play music and receive phone calls from your phone or device.

Note: It is recommended to RENAME the Bluetooth name on the phone or device if more than one Kussmaul Bluetooth Module is used within close proximity.

II. Indicators

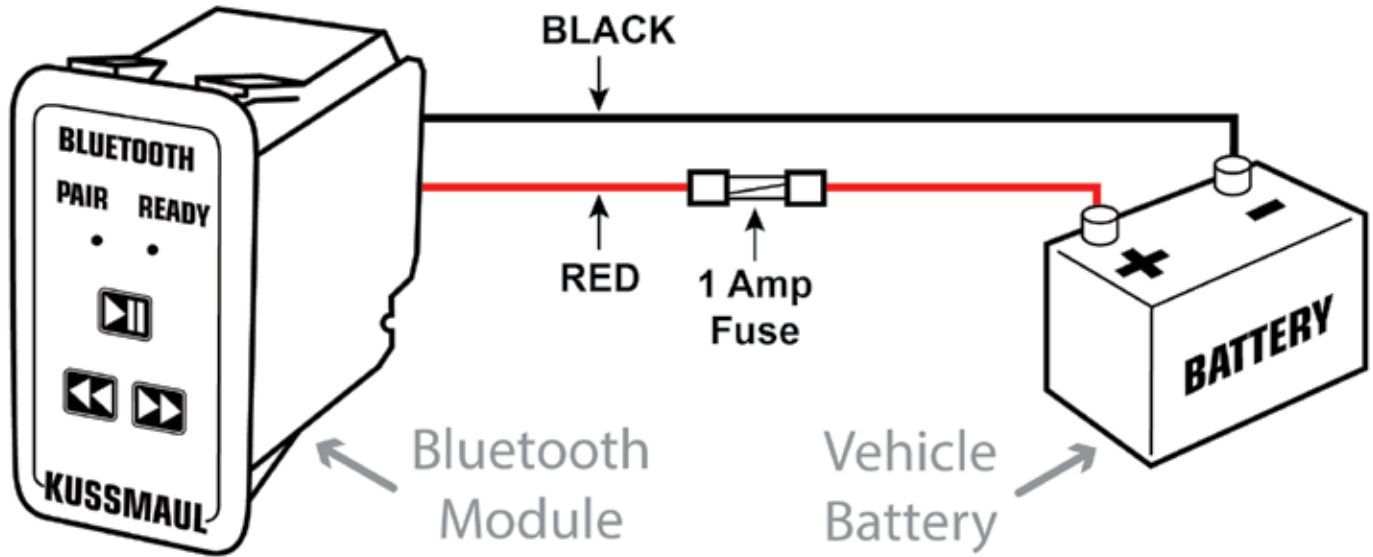


III. Calls

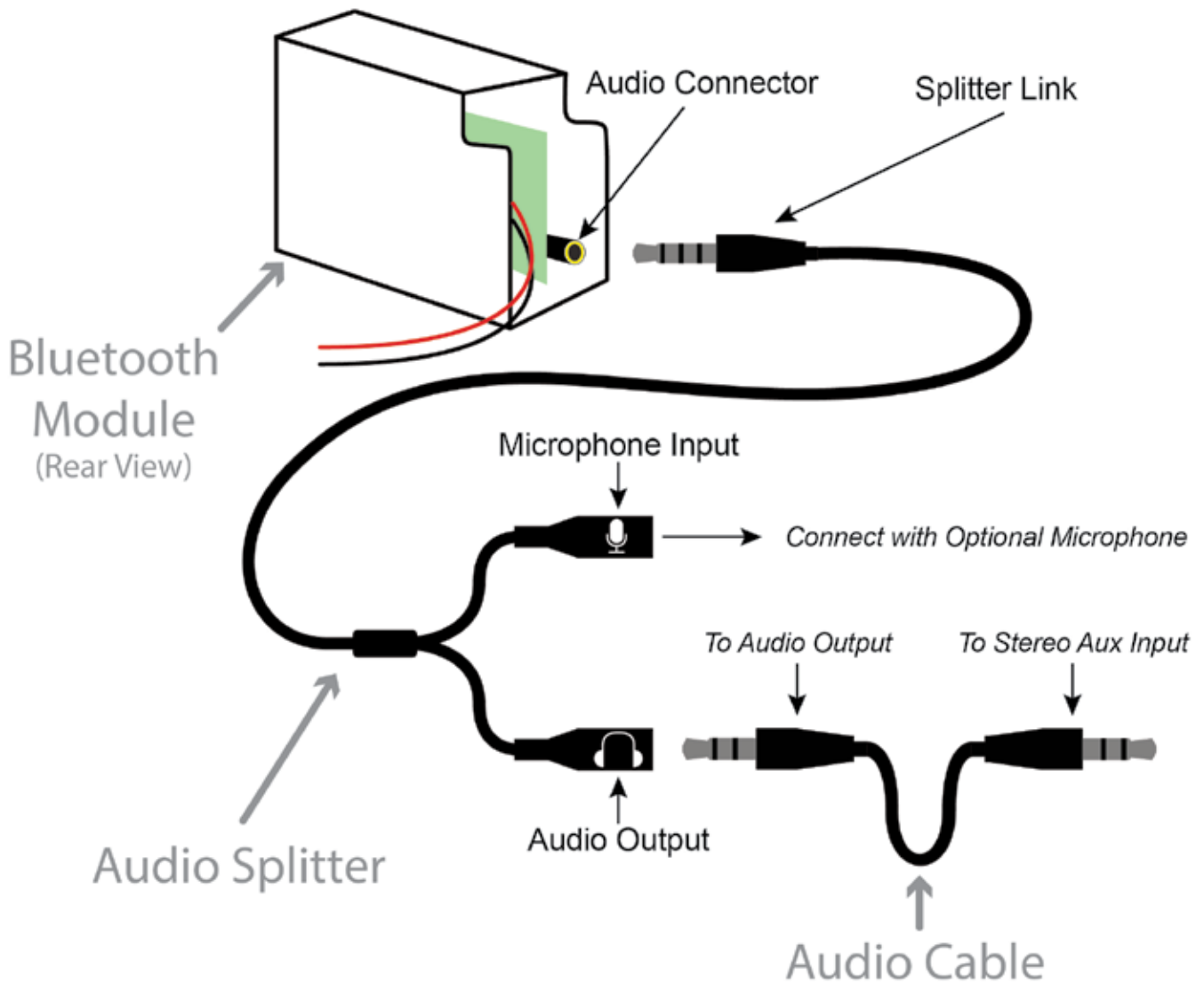
1. If a connected device receives a phone call while music is playing, the music will stop playing.
2. Use the PLAY button to accept and terminate calls. If accepted, the audio will automatically utilize the vehicle's speakers and microphone (connected to the Bluetooth Module).
3. When the call is terminated, if music was playing previous to call, the music will start automatically.
4. Double click the play button (when playing music) to automatically redial the last number

INSTALLATION WIRING DIAGRAM

I. Bluetooth Module Electrical Wiring



II. Bluetooth Module Audio Wiring



TROUBLESHOOTING

I. Unable to pair to device / device no longer connects to the Bluetooth Module

Ensure the phone is paired:

1. Clear all of the connected Bluetooth devices from the phone (refer to phone instructions).
2. Reboot phone or device.
3. Now open the Bluetooth configuration on the device you are trying to pair and connect to the Bluetooth Module.

II. No audio when playing music or when using phone

Please make sure of all of the following:

1. Check if the Bluetooth connection between your phone (or other Bluetooth capable device) and the Bluetooth Module is active.
2. Ensure that the Audio Cable is plugged into the Stereo Aux Input port.
3. Make sure that the input setting on the car stereo is set to "AUX" input.
4. Adjust the car stereo volume and phone volume.

If at any point you are unable to resolve your issue, you can contact Kussmaul Support via email at sales@kussmaul.com or phone at (800) 346-0857.

FAQ

I. What is the Bluetooth Module compatible with?

In general, the Bluetooth Module will work with devices that support the A2DP (Advanced Audio Distribution Profile), HSP (Headset Profile), HFP (Hands-free Profile), and AVRCP (Audio/Video Remote Control Profile) Bluetooth profiles. A list of common devices that support these Bluetooth profiles are:

- Apple Devices – iPhone, iPod Touch, iPad
- Tablets – Windows, Apple, Android, Kindle Fire HD
- Smartphones – Android, BlackBerry, Windows, Samsung, Droids, HTC, etc.

II. How many Bluetooth connections will the Bluetooth Module Remember?

The Bluetooth Module will remember up to 8 previous Bluetooth connections. When the Bluetooth Module is powered on, it will automatically connect to the last device it was connected to.

III. What should I do if I am unable to use the Bluetooth Module?

If you need assistance and are unable to find a solution within this manual, contact Kussmaul Support via email at sales@kussmaul.com or phone at (800) 346-0857.

SPECIFICATIONS

<p>Bluetooth Module</p> <p>Bluetooth Specification: Bluetooth v4.1 (specification support)</p> <p>Bluetooth Profiles: HFP v1.6, HSP v1.2, A2DP v1.2, AVRCP v1.4, DI v1.3</p> <p>Supported Audio Codecs: SBC, MP3, AAC, Faststream</p> <p>Operating Distance: 10 meters Class II</p> <p>Input Voltage: 11-30 vDC</p> <p>Audio Connector: 3.5mm, 4 position, Female</p> <p>Length: 1.73"</p> <p>Width: 0.98"</p> <p>Height: 1.73"</p> <p>Weight: 0.5 lbs</p>	<p>Audio Splitter</p> <p>Length: 8.5"</p> <p>Splitter Link: 3.5mm, 4 position, Male</p> <p>Audio Output: 3.5mm, 3 position, Female</p> <p>Microphone Input: 3.5mm, 3 position, Female</p> <hr/> <p>Audio Cable</p> <p>Length: 6' 5"</p> <p>Audio Connectors: 3.5mm, 3 position, Male</p>
---	--



3 Position Male Audio Connector

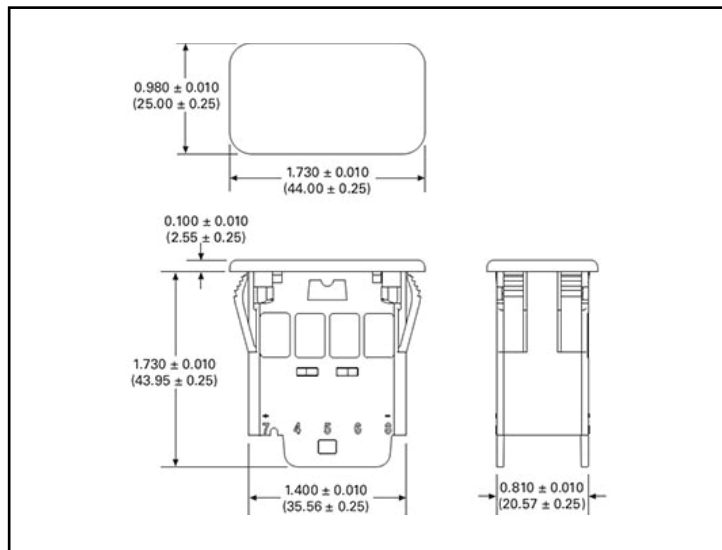
Pin	Name	Description
1	Tip	Left Speaker
2	Ring	Right Speaker
3	Sleeve	Ground



4 Position Male Audio Connector

Pin	Name	Description
1	Tip	Left Speaker
2	Ring-1	Right Speaker
3	Ring-2	Ground
4	Sleeve	Microphone

OUTLINE DRAWING



INSTALLATION RECORD

DATE INSTALLED _____

INSTALLED BY _____

VEHICLE IDENTIFICATION _____

VEHICLE OWNER _____

WARRANTY POLICY

All products of Kussmaul Electronics are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 3 years from the date the equipment was shipped. Defective products should be returned to Kussmaul Electronics with shipping charges prepaid. Upon repair, products will be returned to customer with shipping charges paid.

Kussmaul Electronics shall have no liability for damages of any kind to associated equipment arising from the installation and/or use of the Kussmaul Electronics products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.



Members of
Fire and Emergency
Manufacturers and
Service Association



Members of
National Fire
Protection
Association



Members of
Fire Apparatus
Manufacturers
Association



170 Cherry Avenue
West Sayville, NY 11796
www.kussmaul.com



Ph: 800-346-0857
Fax: 631-567-5826
sales@kussmaul.com