Setcom® CORPORATION

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Phone: (650) 965-8020

Portable Only Wireless Guide

The Portable Only Wireless SpeakerMic and PTT Transmitter are used for remote PTT control of a portable radio connected to a Setcom SpeakerMic. They must be paired for wireless PTT to function.

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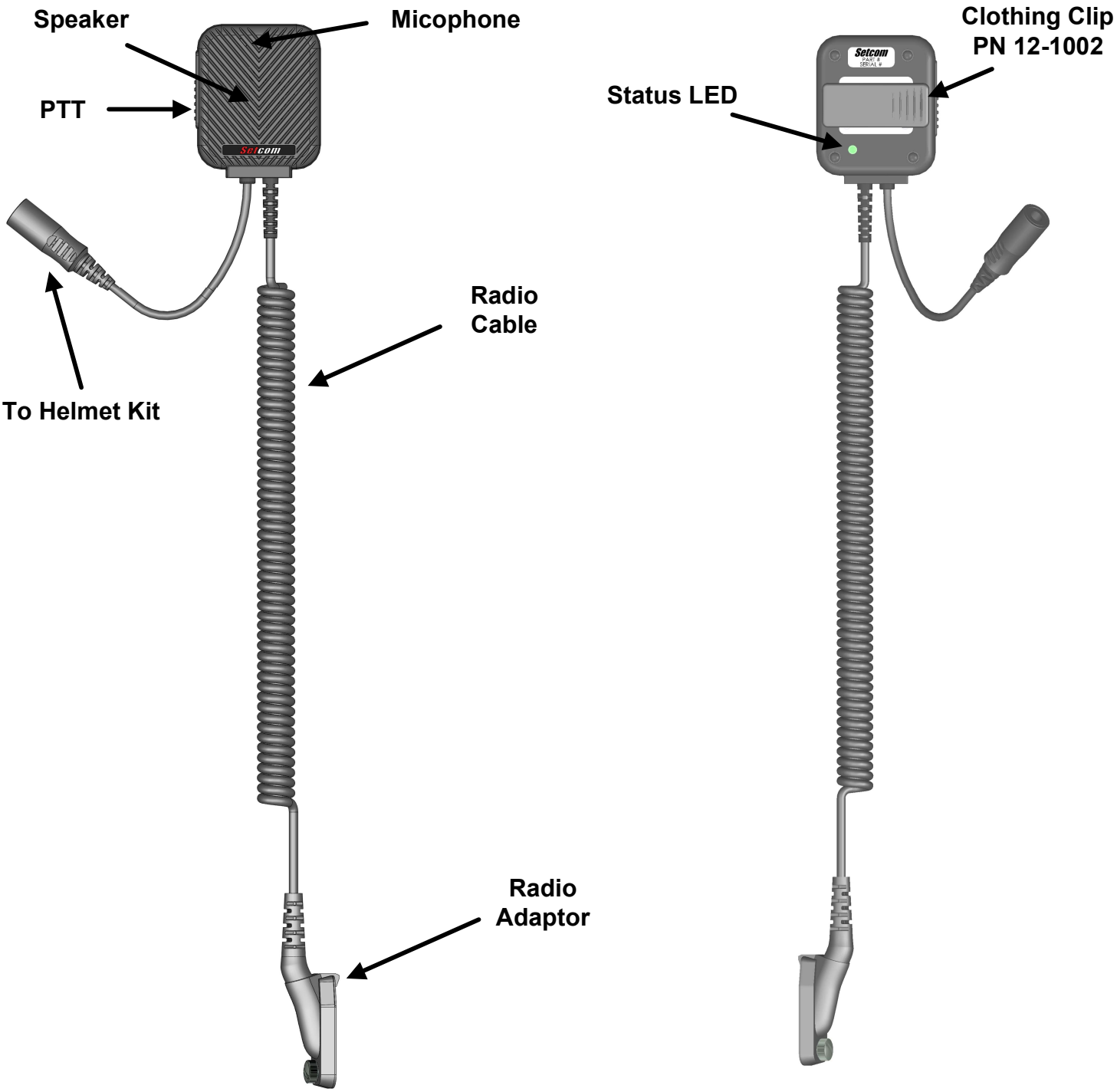
SpeakerMic



Several models of SpeakerMic units exist (SBE-_ or SBA-_), the specific model number depends on the portable radio model to be used. The MZ4 Radio Adaptor is shown above, please contact Setcom Sales team for available radio models.

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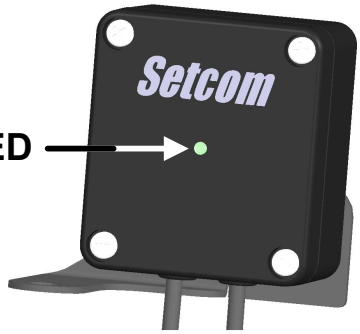
PTT Transmitter



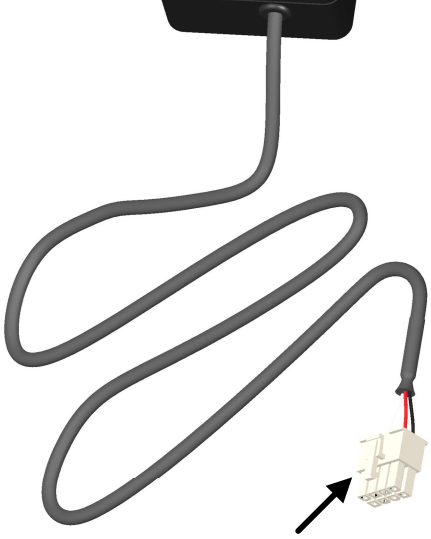
Status LED

PTT
Pushbutton

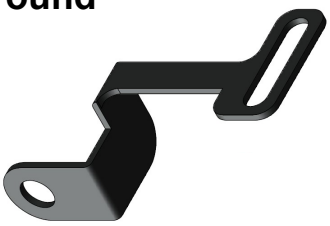
MB_-31

Power Cable
Red +12Vdc
Green Ground

MBB15-31 BMW



To Radio Box Connector #6
Helmet Headset Interface



MBH-31 Harley-Davidson

MBU-31 (H) Universal

Several models of PTT Transmitter units exist (MB_-31), the specific model number indicates the motorcycle type the model will be used on. Common Motorcycle Models are shown above, please contact Setcom Sales team for models not listed here.

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To Pair a SpeakerMic and PTT Transmitter:

- With the SpeakerMic attached to the portable radio, hold down the PTT button on the SpeakerMic and turn on the radio, the Status LED will slowly flash RED twice, then it will begin fast GREEN flashing.
- Release the PTT button, unit is now in Pairing Mode.
- Turn on the power to the PTT Transmitter, the Status LED will slowly flash RED once, then it must enter Search Mode or Sleep Mode, It must not be in Linked Mode.
- Tap the PTT button on the PTT Transmitter 3 times rapidly “triple-tap”, the PTT Transmitter will enter Pairing Mode.

Once the SpeakerMic and PTT Transmitter are placed into Pairing Mode, they will establish a “Link” within a few seconds. Once this happens, the Status LED on both units will briefly flash GREEN every 2 seconds to indicate the units are Linked. Wireless PTT function from the Transmitter will now operate. A SpeakerMic and PTT Transmitter that have been Linked will retain that Link information when powered off. When powered on again, they will re-establish the Link within a few seconds.

Only one SpeakerMic can be paired to one PTT Transmitter at any time, there cannot be multiple pairings.

Pair only one SpeakerMic and PTT Transmitter at a time.

Simply follow the procedures above if for any reason it is necessary to pair a SpeakerMic or PTT Transmitter to a different unit than the one it is currently paired with.

Status LED Chart

LED Indications		Status
RED flashes		Seen during power on, 2 flashes on the SpeakerMic, 1 flash on the PTT Transmitter.
Fast GREEN flashing		Indicates that a SpeakerMic or PTT Transmitter is in Pairing Mode and is seeking another unit that is also in Pairing Mode, to establish a Link.
Slow GREEN flashing every 2 seconds		Indicates that a unit is in Linked Mode.
Fast ORANGE flashing		Indicates that a unit is in Search Mode and searching for its previously Linked “partner”.
LED turns off after power up RED flash(s)		Indicates the unit is in Sleep Mode and is not Linked to another unit.
Steady RED		Indicates an Error, see troubleshooting tips p9.

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General Installation Notes

Wiring the PTT Transmitter:

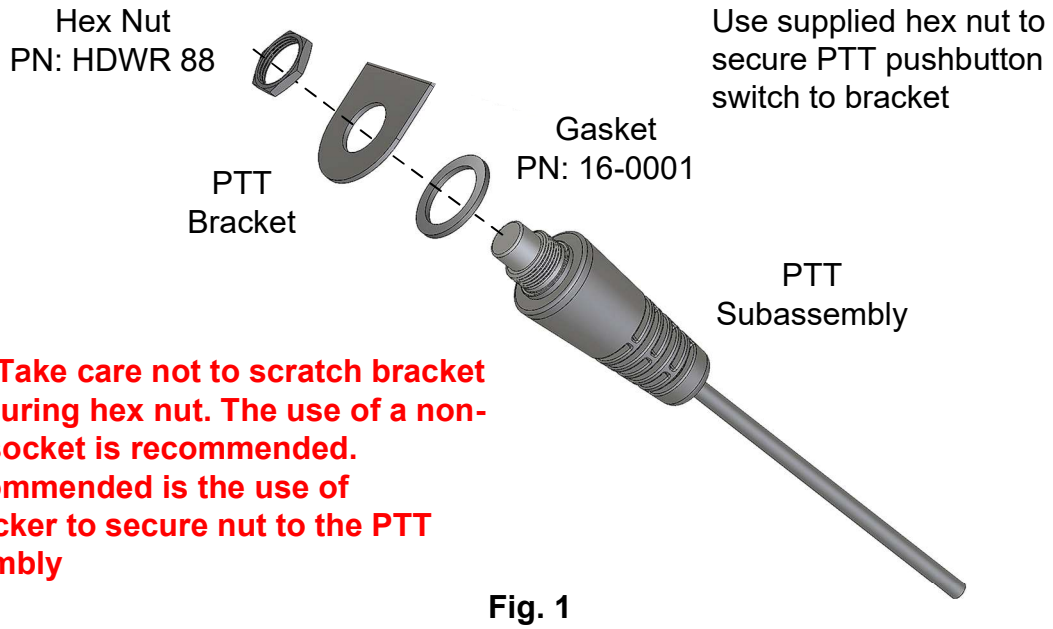
The PTT Pushbutton is hard-wired to the enclosure and only needs to be mounted onto the included bracket (see Fig. 1). For the MBB15-31, PTT installation only requires plugging a connector into Header #6 - Helmet Headset Interface of the BMW Radio Box Connections.

DC Power wiring for non-BMW PTT Transmitters involves connecting the Green wire to a good ground point, and the Red wire to a fused +12Vdc source (a 1A fuse is recommended). The transmitter draws minimal power but it is recommended it be connected to a switched DC source – Accessory power is typically used. A separate switch can be wired always hot to be used to turn On/ Off the PTT Transmitter, by doing this the PTT Transmitter will work when the motorcycle is turned off. For BMW's, the MBB15-31 power installation only requires plugging a connector into Header #6 - Helmet Headset Interface of the BMW Radio Box Connections.

Checkout:

It is recommended to verify system operation before fastening down any cabling or replacing any body panels that have been removed for access. This requires a portable radio fitted with a SpeakerMic and the cooperation of another radio operator for a radio transmission check.

Before completing the installation, it is important to make sure that any cabling does not impair free movement of the handlebars or radio cabinet, and that the cabling will not be stretched, chafed, or broken by movement of the handlebars or any other part of the motorcycle.



Caution: Take care not to scratch bracket when securing hex nut. The use of a non-marring socket is recommended. Also recommended is the use of Threadlocker to secure nut to the PTT Subassembly

Fig. 1

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Installing the MBB15-31

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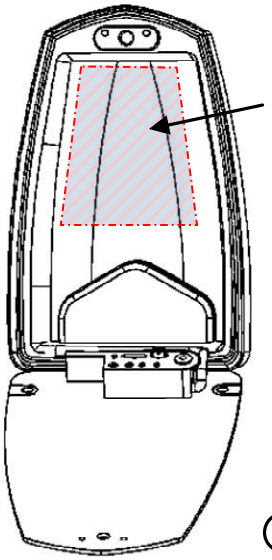
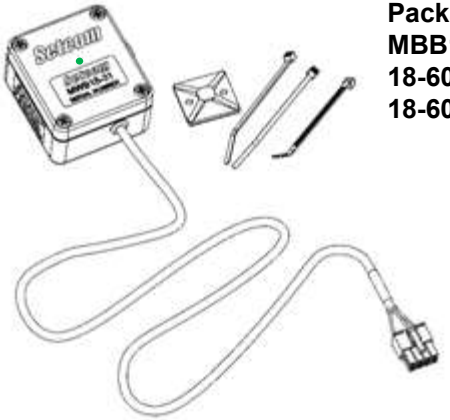


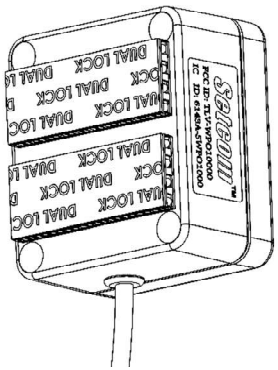
① Choose a position within the shaded area to mount the MBB15-31 to the inner LID of the radio cabinet.

Note: Ensure that the contents of the radio cabinet allow clearance for the MBB15-31 when closing the cabinet.

② For best results, clean the surface where the MBB15-31 will be mounted with 70% Isopropyl Rubbing Alcohol.

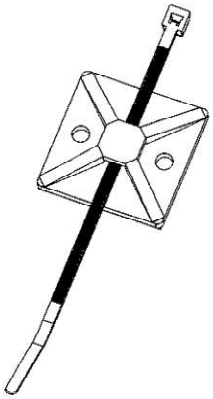


Package includes:
MBB15-31 – QTY 1
18-6001 – QTY 3 – 4 inch cable ties
18-6000 – QTY 1 – Self adhesive cable tie base



③ Once the selected area has been cleaned and dried, peel the two thin liners from the DUAL LOCK and place the MBB15-31 unit into position on the radio cabinet LID.

Use a firm even pressure to apply the MBB15-31 to the surface.



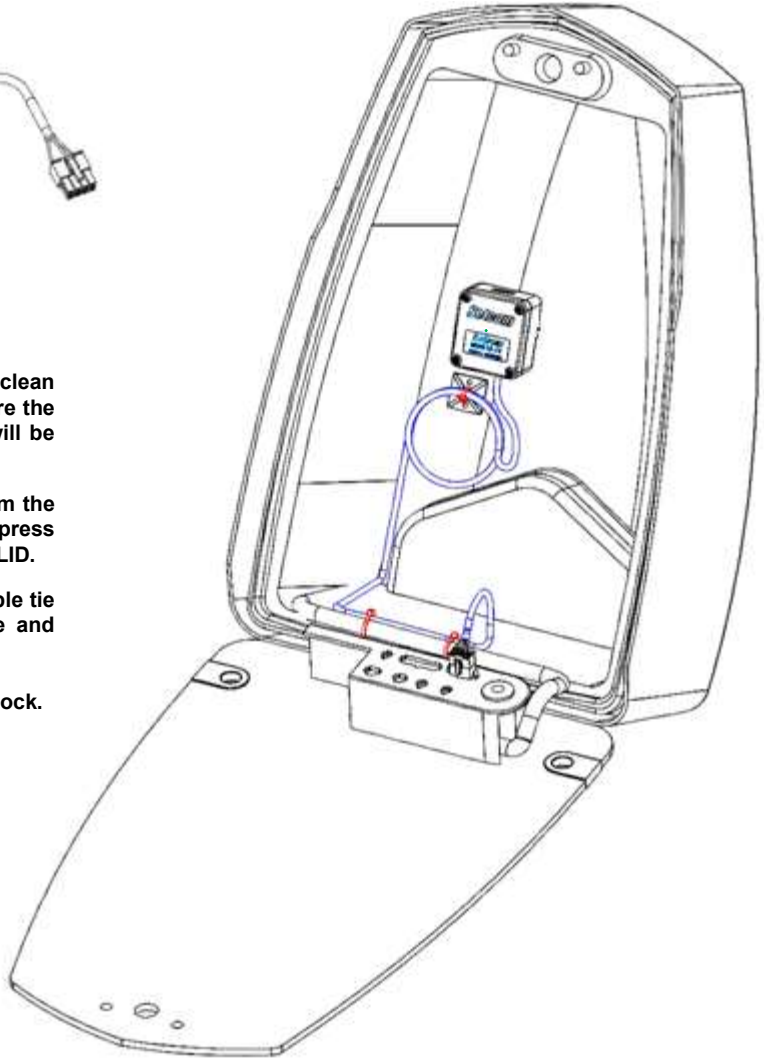
④ Securing excess cable:

Using 70% Isopropyl Rubbing Alcohol, clean the surface of the radio cabinet LID where the 18-6000 self adhering cable tie base will be applied.

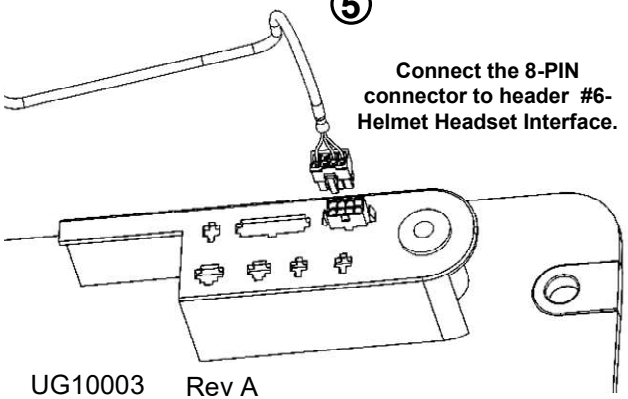
Once the area is dried, peel the liner from the adhesive PAD of the cable tie base and press the cable tie base onto the radio cabinet LID.

Insert a 16-0001 cable tie through the cable tie base. Loosely coil up the excess cable and bind it to the cable tie base.

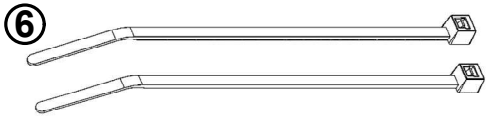
Clip excess cable tie flush with cable tie lock.



⑤ Connect the 8-PIN connector to header #6- Helmet Headset Interface.



⑥



User the remaining two 16-0001 cable ties to secure the cable run to the existing harness.

Note: Allow enough slack so that the radio cabinet can fully open and close completely without causing any damage to the cable or connector assembly.

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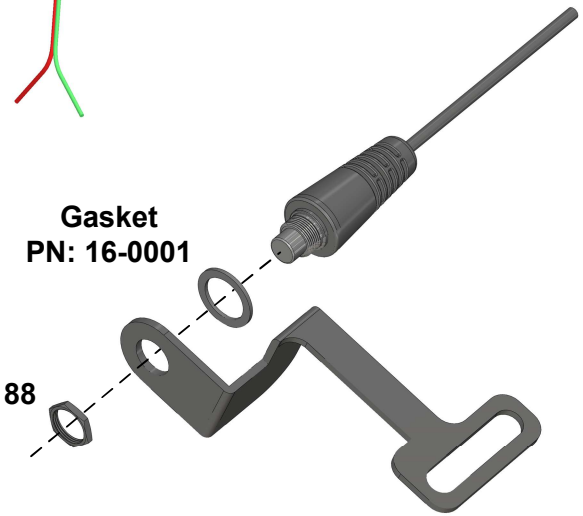
Installing the MBH-31

Use the left mirror post as the mounting location for installation on Harley-Davidson motorcycles.

PTT Tx unit mounted on 14-0085 bracket

DC Power Cable – for further information see General Installation Notes: Wiring,

Pushbutton PTT Switch Cable

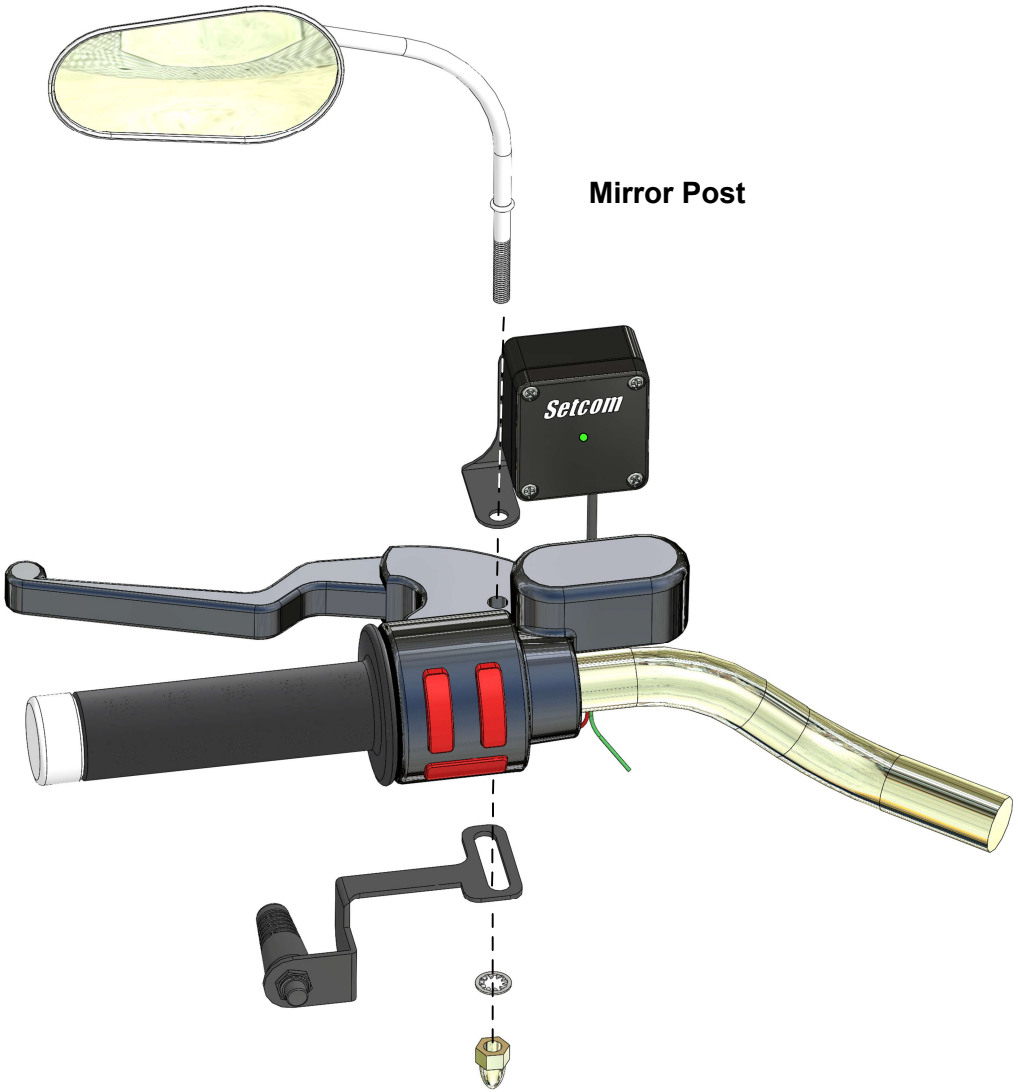


Gasket PN: 16-0001

Hex Nut PN: HDWR 88

14-0048 Bracket

Mirror Post



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Installing the MBU-31 (H)

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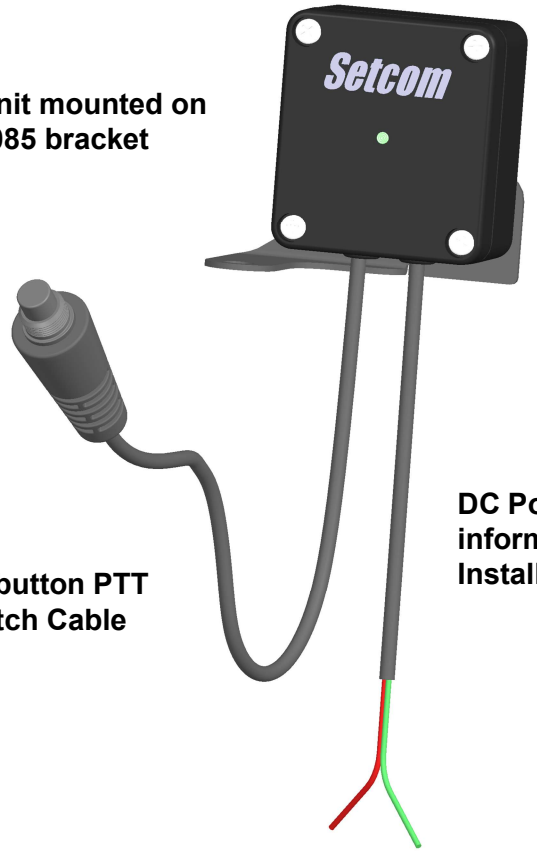
The MBU-31 (H) is for semi-custom installations where standardized brackets may not be applicable.

The PTT Transmitter Unit is to be mounted on the left mirror post in the same way as the MBH-31.

The Pushbutton PTT switch assembly is to be installed on the left side grip. The inserts provided allow fitment to a variety of grip diameters.

14-0083 Universal Bracket Shown with HDWR 130 hardware. Kit includes, screw, keep nut and hard rubber inserts to accommodate various diameters of mounting locations

PTT Tx unit mounted on 14-0085 bracket



Hex Nut PN: HDWR 88

Gasket PN: 16-0001

Mounting Pushbutton PTT switch to Universal Bracket (recommend use of non-marring tool)

Pushbutton PTT Switch Cable

DC Power Cable – for further information see General Installation Notes: Wiring,

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Troubleshooting Tips:

Most problems can be resolved by simply checking the cabling and connectors to verify they are in good condition and not damaged. If they are damaged the unit will need to be repaired.

Power:
To verify the unit is getting power – if the LED lights up and flashes when power is turned on, it is getting power.

When the SpeakerMic is powered on you may see 2 GREEN flashes after the 2 RED flashes – This is normal.

PTT, Tx, Rx:
Radio connectors on the SpeakerMic can get wet, corroded or have bent pins, this can cause constant or intermittent keying (PTT), Transmit or Receive issues. Check the connector to verify it is in good condition, dry, clean (no corrosion) and no bent pins.

Pairing/Linking:
If the SpeakerMic and the PTT transmitter fail to Link, the simplest solution is to turn off power and repeat the Linking process, if this does not help, try clearing pairing (see below for instructions) on both units and then try to Link them again.

If either unit shows steady RED on the Status LED, there has been some kind of error. In this case it is best to clear pairing on both units and try the pairing process again.

To clear pairing of a SpeakerMic or PTT Transmitter:

SpeakerMic: Turn off Portable Radio power, hold down the PTT button and turn power on. When the unit enters Pairing Mode (fast GREEN flash) turn power off while still holding the PTT button down. This clears any previous paired data.

PTT Transmitter: Turn off power, hold down the PTT button, and turn power on. When the unit enters Pairing Mode (fast GREEN flashes) turn power off while still holding the PTT button down. This clears any previous paired data.

This may not be feasible with the MBB15-31 BMW versions, because power to Header #6 - Helmet Headset Interface of the BMW Radio Box Connections remains on for 30 minutes after the motorcycle ignition or accessory power is turned off.

The units will go into Pairing Mode on power up if the PTT is released after it enters Pairing Mode.

Complete the Return Merchandise Authorization Form (RMA) - https://setcomcorp.com/rma/ if you need to send a product back for repair or replacement.

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Regulatory Notices

FCC label for Bluetooth SpeakerMics
Contains FCC ID: 2AMWO-FSCBT1026
Contains IC: 23872-FSCBT1026

FCC label for Bluetooth PTT Transmitters
Contains FCC ID: 2AMWOFSC-BT986
Contains IC: 23872-FSCBT986

Module statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

This module operates under Part 15 .247 which is exempt from RF exposure evaluation owing to the very low operating power.

IC Statements

The final host device, into which this RF Module is integrated contains transmitter module IC: 23872-FSCBT1026

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L’émetteur/récepteur exempt de licence contenudans le présentappareilestconforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes :

(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, mêmesi le brouillage est susceptible d' encompromettre le fonctionnement.

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Regulatory Notices Continue

Radio Frequency Exposure Statement for IC

The device has been evaluated to meet general RF exposure requirements. The device can be used in mobile exposure conditions. The min separation distance is 15mm.

Déclaration d'exposition aux radiofréquences pour IC L'appareil a été évalué pour répondre aux exigences générales en matière d'exposition aux RF. L'appareil peut être utilis é dans des conditions d'exposition mobiles. La distance de séparation minimale est de 15 mm.