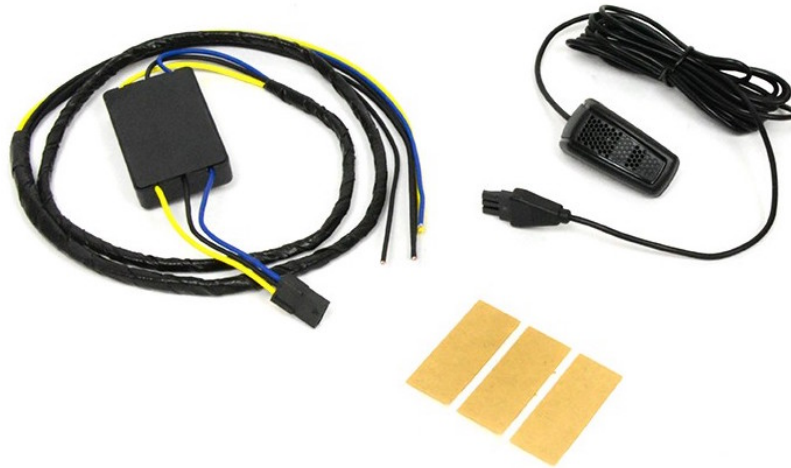


## Replacement Microphone for OEM Mirror-based Microphones w/ Voltage Regulator (5000-PESMVR)



**Purpose:** This kit allows replacing the OE SYNC or Uconnect equipped mirror with built-in microphone with a Brandmotion Rear Camera Mirror while retaining full function of the SYNC or Uconnect system in the vehicle.

1. Test the original mirror for proper SYNC or Uconnect functions prior to removal of mirror (see car owner's manual for specific instructions).
2. With the ignition switch in the OFF position, disconnect and remove the existing mirror.
3. Determine the correct location of the vehicle in which to make your microphone connections. In most cases the connection is not made at the mirror connection but at the "A-pillar." Please see our supplement guide for vehicle specific instructions.
4. Connect all 5 wires of the microphone replacement kit. Due to the complexity of the SYNC and Uconnect systems, all 5 wires should be connected for best results unless directed otherwise in the supplemental guide.

There are a total of 5 wires to this kit:

Yellow	MIC +
Blue	12V +
Black	MIC -
Black	Vehicle or chassis ground
Black	MIC shield

(Note: All three black wires are identical and are joined together inside the harness. Any one of the three can be used for each connection.)

### **Connecting techniques:**

Brandmotion recommends that you DO NOT cut any wires; instead, it is best that you either use the "strip and splice" method or that you use T-tap connectors to make your connections. When making your connections, especially with T-taps, you should test fit any panels which will need to be reinstalled on the vehicle.

*Strip and Splice: This method requires the following steps and is recommended for best results.*

- Strip back a small portion of the insulation from the wire.
- Using a small wire pick separate the exposed wire into two groups.
- Insert the corresponding wire from the kit through the center as if you were threading a needle.
- Twist the excess wire around the exposed area tightly and wrap with electrical tape.
- Use a tie wrap/zip tie to secure your connection by placing it over the taped portion of the wire where the junction was made.

*Using T-tap connectors:* Be sure to use red T-tap connectors, as all the wires are small gauge. Larger T-tap connectors create false contacts that will not allow the SYNC or Uconnect system to function properly.

5. Using the supplied adhesive tape mount the microphone to the overhead console and route the cable that is attached to the microphone to the location where you made your connections and attach to the harness.
6. Test your microphone by following the same steps from your test sequence in step 1. Complete testing and ensure microphone is working correctly before proceeding with new mirror installation and re-assembly of vehicle.

**Edge/ MKX**

OE Connector Location: Left A-pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
6 Yel/ Green	VMM13	211	Yellow	+	MIC +
17 Blue	RMM13	211	Black	-	Ground
16 Bare	DMM13	211	Black	-	Shield
3 Blue/ Org	CBP41	210	Blue	+	12 Volts
15 Black	GD133	210	Black	-	Ground

**Escape/ Mariner**

Connector Location: Left A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC Color</b>	<b>Polarity</b>	<b>Description</b>
5 Yel/ Green	VMM13	214	Yellow	+	MIC +
6 Blue	RMM13	214	Black	-	Ground
7 Bare	DMM13	214	Black	-	Shield
1 Blue	CBP41	214	Blue	+	12 volts
20 Blk/ Grey	GD182	214	Black	-	Ground

**Expedition/ Navigator**

Connector Location: Behind dash panel passenger side

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
8 Grey	VMN07	298	Yellow	+	MIC +
9 Violet	RMN07	298	Black	-	Ground
20 Black	DMN07	298	Black	-	Shield
1 Blue	CBP41	298	Blue	+	12 volts
22 Black	GD133	298	Black	-	Ground

**Explorer/ Mountaineer**

Connector Location: Left A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
9 Grey	VMN07	248	Yellow	+	MIC +
10 Violet	RMN07	248	Black	-	Ground
4 Bare	DMN07	248	Black	-	Shield
8 Brown// Blu	CBP41	248	Blue	+	12 volts
1 Black	GD133	248	Black	-	Ground

**F-150**

Connector Location: Roof panel near left hand side

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
4 Ye/ Green	VMM13	314	Yellow	+	MIC +
5 Blu/ White	RMM13	314	Black	-	Ground
6 Bare	DMM13	314	Black	-	Shield
4 Blue	CBP41	315	Blue	+	12 volts
8Black	GD133	314	Black	-	Ground

**F-series (Super Duty)**

Connector Location: Right A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
11 Ye/ Green	VMM13	264	Yellow	+	MIC +
9 Blue	RMM13	264	Black	-	Ground
13 Black	DMM13	264	Black	-	Shield
2 Blue	CBP41	264	Blue	+	12 volts
14 Black	GD133	264	Black	-	Ground

**Flex**

Connector Location: Right A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
7 Ye/ Green	VMM13	925	Yellow	+	MIC +
19 Blue	RMM13	925	Black	-	Ground
20 Bare	DMM13	925	Black	-	Shield
13 Blue	CBP41	925	Blue	+	12 volts
24 Black	GD133	925	Black	-	Ground

**Focus**

Connector Location: Right A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
10 Ye/ Green	VMM13	934	Yellow	+	MIC +
11 Blue	RMM13	934	Black	-	Ground
12 Bare	DMM13	934	Black	-	Shield
3 Brow/ Yel	CPL60	934	Blue	+	12 volts
14 Blk/ Yel	GD161	934	Black	-	Ground

**Fusion/ Milan/ MKZ**

Connector Location: Right A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
6 Yel/ Green	VMM13	919	Yellow	+	MIC +
5 Blue	RMM13	919	Black	-	Ground
13 Black	DMM13	919	Black	-	Shield
1 Blue	CBP41	919	Blue	+	12 volts
17 Blk/ Yel	GD139	919	Black	-	Ground

**Taurus/ Sable**

Connector Location: Right A pillar

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
13 Wht/ Brn	VMN02	925	Yellow	+	MIC +
14 Viot/ Brn	RMN02	925	Black	-	Ground
15 Bare	DMN07	925	Black	-	Shield
2 Blue	CBP41	925	Blue	+	12 volts
8 Black	GD133	925	Black	-	Ground

**MKS**

Connector Location: At rear view mirror

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
4 Wht/ Brn	VMN02	911	Yellow	+	MIC +
5 Viot/ Brn	RMN02	911	Black	-	Ground
9 Bare	DMN02	911	Black	-	Shield
1 Blue	CBP41	911	Blue	+	12 volts
10 Black	GD133	911	Black	-	Ground

**Mustang**

Connector Location: Right footwell, behind trim

<b>OE Conn. Pin Color</b>	<b>Circuit</b>	<b>Conn.</b>	<b>External MIC color</b>	<b>Polarity</b>	<b>Description</b>
5 Ye/ Green	VMM13	934	Yellow	+	MIC +
4 Blue	RMM13	934	Black	-	Ground
6 Bare	DMM13	934	Black	-	Shield
1 Blue	CBP41	934	Blue	+	12 volts
12 Blk/ Yel	GD139	934	Black	-	Ground

**Ford\***

Connector Location: 10 pin mirror connector

<b>OE Conn. Pin Location</b>	<b>External MIC Color</b>	<b>Polarity</b>	<b>Description</b>
1	Blue	+	Ignition 12 volts
4	Yellow	+	Microphone Positive
5	Black	-	Microphone Negative
10	Black	-	Ground

\*3<sup>rd</sup> Ground not used

**Dodge/ Chrysler/ Jeep\***

Connector Location: 16 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
1	Yellow	+	Microphone Positive
2	Black	-	Microphone Negative
8	Black	-	Ground
13	Blue	+	Ignition 12 volts

\*3<sup>rd</sup> Ground not used**Ram/ Dodge/ Chrysler/ Jeep\***

Connector Location: 14 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
7	Blue	+	Ignition 12 volts
11	Yellow	+	Microphone Positive
12	Black	-	Microphone Negative
14	Black	-	Ground

\*3<sup>rd</sup> Ground not used**Dodge/ Chrysler/ Jeep\***

Connector Location: 10 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
5	Blue	+	Ignition 12 volts
7	Yellow	+	Microphone Positive
9	Black	-	Ground/Microphone Negative

\*2<sup>nd</sup> and 3<sup>rd</sup> Ground not used**2012 and up Dodge/ Chrysler/ Jeep\* (Journey/Freemont)**

Connector Location: 7 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
1	Blue	+	Ignition 12 volts
2	Black	-	Ground
3	Black	-	Microphone Negative
4	Yellow	+	Microphone Positive

\*3<sup>rd</sup> Ground not used**Dodge/ Chrysler/ Jeep\***

Connector Location: 7 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
1	Blue	+	Ignition 12 volts
2	Black	-	Ground
6	Yellow	+	Microphone Positive
7	Black	-	Microphone Negative

\*3<sup>rd</sup> Ground not used**GM with 16 pin Mirror Connector and OnStar\*\***

Connector Location: 16 pin mirror connector

<b>OE Conn.</b>	<b>External</b>	<b>Polarity</b>	<b>Description</b>
<b>Pin Location</b>	<b>MIC Color</b>		
2	Black	-	Microphone Negative
10	Yellow	+	Microphone Positive

\*\*Blue, 2<sup>nd</sup> and 3<sup>rd</sup> Ground not used