

SYNC Microphone Mirror replacement Kit

Purpose: This kit allows for the replacement of the OE SYNC equipped mirror with built-in microphone with a Brandmotion Rear Camera Mirror and still allow for full function of SYNC system in the vehicle.

Step 1) Test the original mirror for proper SYNC functions prior to removal of mirror (see car owner's manual for specific instructions).

Step 2) With the ignition switch in the Off position disconnect and remove the existing mirror.

Step 3) Locate 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 it is mainly at the A pillar see supplement guide for vehicle specific instructions).

Step 4) Connect all 5 wires of the microphone replacement kit (the system is much more complex and so for best results all 5 wires are needed).

There are a total of 5 wires to this kit

Yellow	X1	MIC +
Blue	X1	12V +
Black	X3	Ground

Note: All three black wires are identical and are joined together inside the harness.

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 specially with T-taps, make sure to 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.

- A) Strip back a small portion of the insulation from the wire.
- B) Using a small wire pick separate the exposed wire into two groups.
- C) Insert the corresponding wire from the kit through the center as if you were threading a needle.
- D) Twist the excess wire around the exposed area tightly and wrap with electrical tape.
- E) 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 that you will be attaching to are of small gauge and anything larger will create false contacts which will not allow the SYNC system to function properly.

Step 6) 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.

Step 7) Prior to vehicle assembly test your microphone by following the same steps from your test sequence in step # 1. Once all test well proceed with new mirror installation and assemble vehicle.

Ford/ Lincoln/ Mercury Wiring Guide

Edge/ MKX

OE Connector Location: Left A-pillar

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC Color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

OE Conn. Pin Color	Circuit	Conn.	External MIC color	Polarity	Description
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

Dodge/ Chrysler/ Jeep*

Connector Location: 16 pin mirror connector

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

*3rd Ground not used