

# MasterSheet

033 0004  
Revision 10/20/20



Complete Car Audio  
Installation Instructions  
**CRUTCHFIELD®**

## IMPORTANT

Before starting, compare items on your invoice with items received. Carefully check through packaging material. If any item is missing, please call **Crutchfield Technical Support** at **1-800-955-9094**.

2016-  
Mazda MX5  
2017-  
Fiat 124 Spider

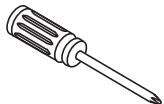

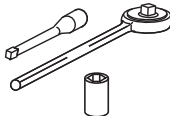
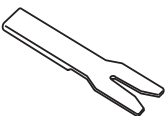

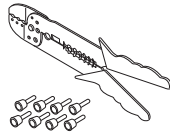


## Inside...

Although reasonable attempts are made to verify the accuracy of the information contained in this MasterSheet, it is presented without warranties or guarantees of any type due to the constantly changing nature of this type of information and running changes in vehicle production. Any person or entity using this information does so at his or its own risk. If you find our instructions are different from your vehicle, or if you have questions, do not continue with your installation. Contact our toll-free technical support for assistance.



Page

2	Front Pillar Speakers		✓		✓		
3-4	Door Speakers	✓	✓	✓	✓	✓	
5-6	Front Footwell Subwoofer	✓	✓	✓	✓		
7	Wire Splicing Guide						✓
		Phillips Screwdriver	Small Flat Blade Screwdriver	10mm Deep Socket, Ratchet & Extension	Panel Tool	Utility Knife	Wire Strippers & Crimp Caps
							

## Tools Required ▶

**IMPORTANT:** Disconnect negative battery cable before all operations in order to avoid an electrical short or accidental airbag deployment.

**Note:** At this time, no aftermarket antenna is available from Crutchfield. A replacement antenna may be purchased from a local dealership.

**CRUTCHFIELD®**  
Copyright 2020 Crutchfield Corporation

033 0004

# Front Pillar Speakers

## NOTES:

### Please read first

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



### IMPORTANT

No speaker wiring adaptor is available at this time from Crutchfield for this location. It will be necessary to splice wires in order to install an aftermarket speaker.

No adaptor bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket in order to install an aftermarket speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Starting at the top edge, pry off pillar trimpanel to release two (2) clips. Disconnect wiring harness and remove trimpanel (Figures 1 & 2).
2. Pry tweeter off pillar trimpanel to release clips and remove tweeter (Figure 3).
3. Fabricate a speaker mounting bracket and secure speaker to bracket.
4. Make wiring connections following instructions on page 7. Return to this page to complete installation.
5. Secure speaker/bracket assembly to location.
6. Test speaker operation and reinstall pillar trimpanel.

FIGURE 1



FIGURE 2



FIGURE 3



1-800-955-9094  
TECHNICAL SUPPORT

**CRUTCHFIELD**  
Copyright 2020 Crutchfield Corporation

033 0004

# Door Speakers



## IMPORTANT

*It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.*

1. Pry out screw cover behind door release and remove one (1) exposed Phillips screw (Figure 1).
2. Pry out screw cover inside door pull cup and remove one (1) exposed Phillips screw (Figure 2).
3. Pry out sides and bottom of door panel to release eight (8) clips. Disconnect wiring harnesses, door lock and release assembly. Remove door panel (Figures 3 & 4).

*Continued on the next page.*



**1-800-955-9094**  
TECHNICAL SUPPORT

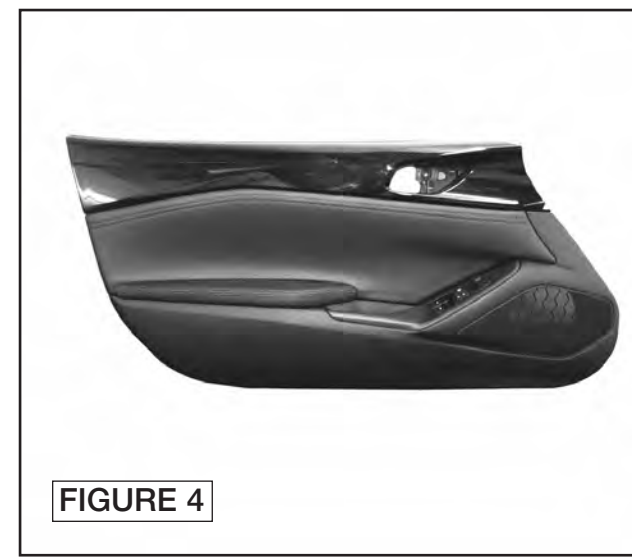
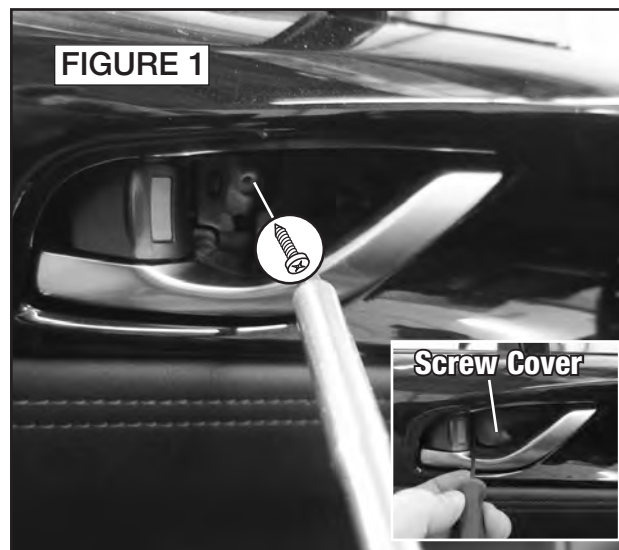
**CRUTCHFIELD**

Copyright 2020 Crutchfield Corporation

## NOTES:

### *Please read first*

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



033 0004

## Door Speakers (continued)

4. Remove three (3) 10mm screws securing speaker. Pull out speaker, disconnect and remove (Figure 5).
5. Carefully cut off ring (plastic speaker surround) on back of speaker grille to allow new speaker to fit (Figure 6).
6. Secure new speaker to adaptor bracket.
7. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location.
8. Test speaker operation and reassemble door panel by reversing disassembly steps.

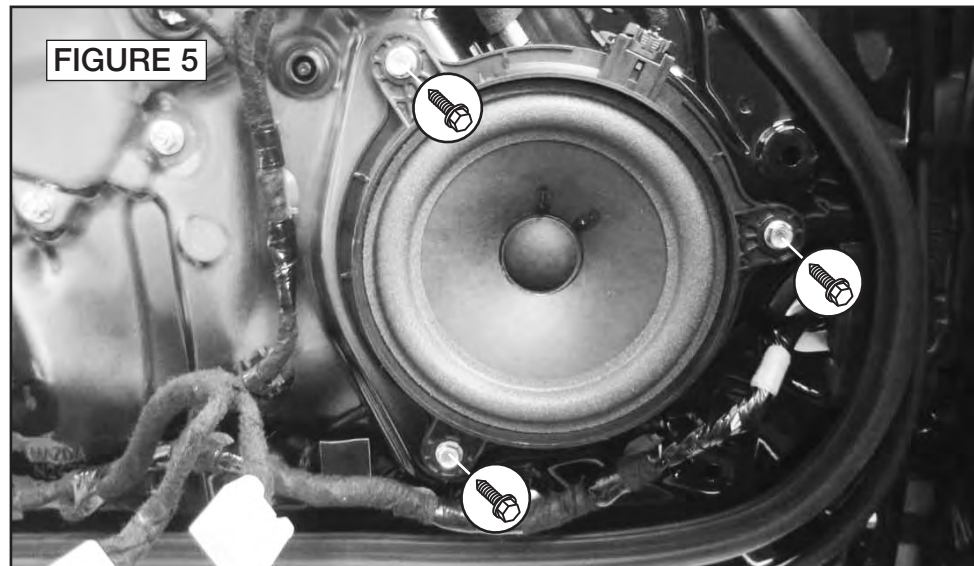


FIGURE 5

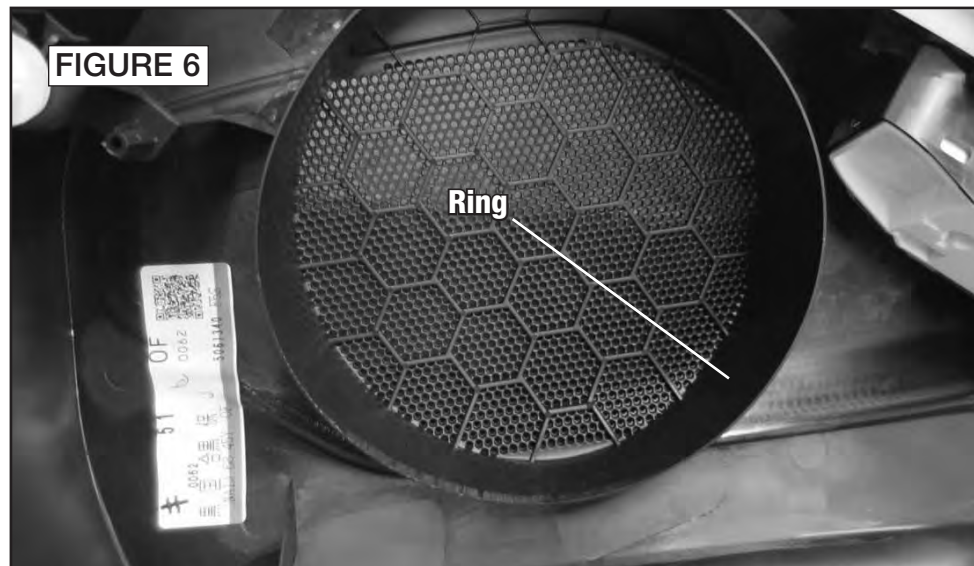


FIGURE 6



### CAUTION

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.



### SAFETY CHECK

- Check that wires do not interfere with window operation.
- Test door lock and release operation.



**1-800-955-9094**  
**TECHNICAL SUPPORT**

**CRUTCHFIELD**

Copyright 2020 Crutchfield Corporation

033 0004

# Front Footwell Subwoofer

## NOTES:

### Please read first

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



### IMPORTANT

No adaptor bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket in order to install an aftermarket speaker.

It is possible that the replacement speaker does not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pry up passenger's side door scuff plate to release five (5) clips and remove (Figure 1).
2. Remove one (1) retaining clip from passenger's kick panel by prying out center pin, then prying out clip (Figure 2).
3. Pull door gasket away from body along kick panel (Figure 3).
4. Pull kick panel toward rear of vehicle to release one (1) clip and remove panel (Figure 4).
5. Remove one (1) plastic Phillips clip securing edge of carpet. Pull carpet toward rear of vehicle (Figure 5).

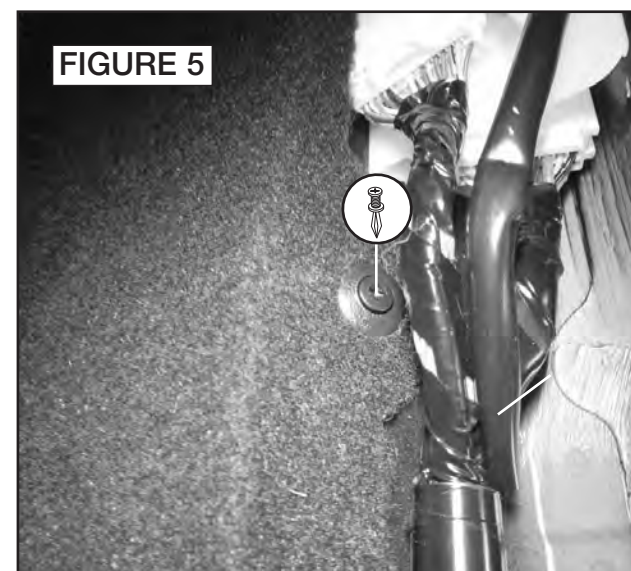
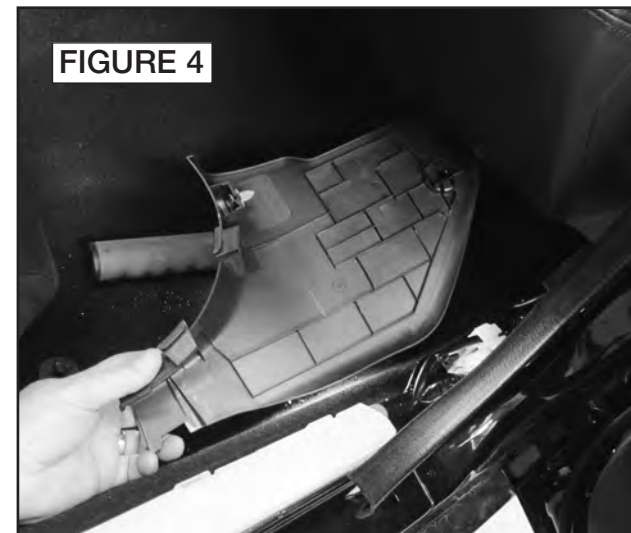
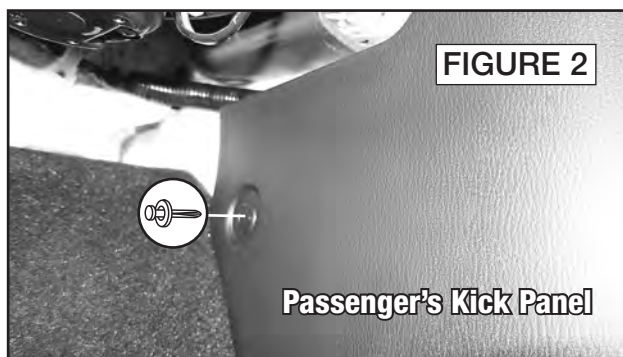
Continued on the next page.



1-800-955-9094  
TECHNICAL SUPPORT

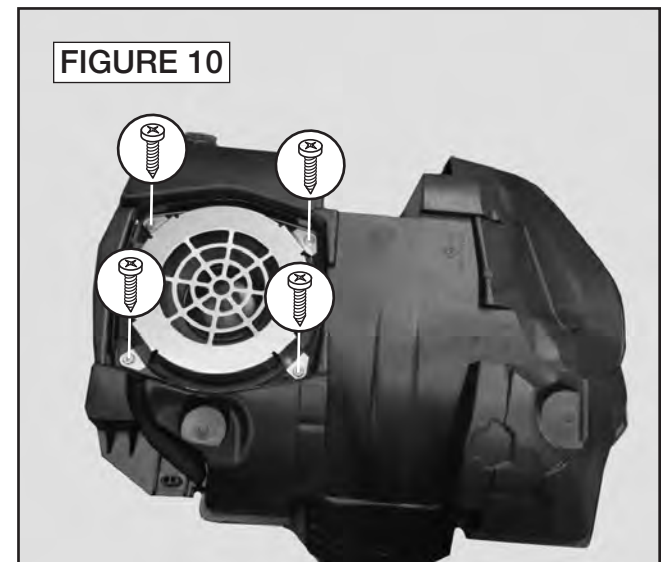
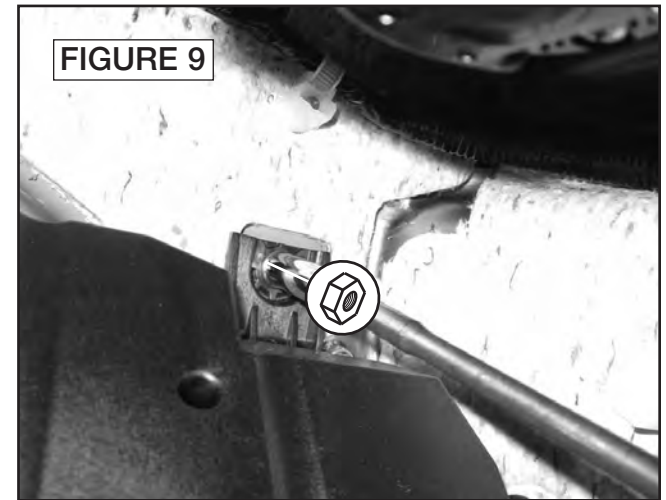
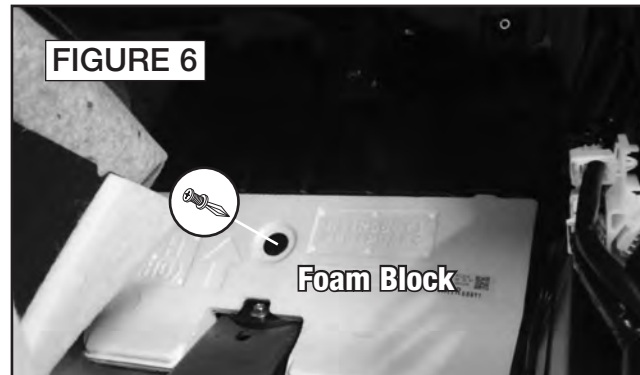
**CRUTCHFIELD**

Copyright 2020 Crutchfield Corporation



# Front Footwell Subwoofer (continued)

6. Remove one (1) plastic Phillips clip securing foam block in footwell and remove block (Figure 6).
7. Remove two (2) 10mm nuts and one (1) 10mm bolt securing subwoofer enclosure. Disconnect wiring harness and remove enclosure (Figures 7-9).
8. Remove four (4) Phillips screws securing subwoofer to enclosure. Disconnect wiring harness and remove speaker (Figure 10).
9. Fabricate a speaker mounting bracket and secure speaker to bracket.
10. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
11. Secure speaker/bracket assembly to enclosure and reconnect enclosure wiring harness.
12. Test speaker operation and reassemble by reversing disassembly steps.



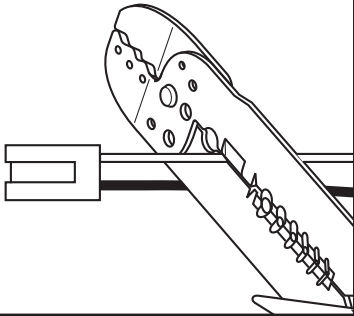
# Wire Splicing Guide

These methods can be used to make wiring connections if no receiver or speaker wiring adaptor is available. Wire color information (if available) can be found on the next page.

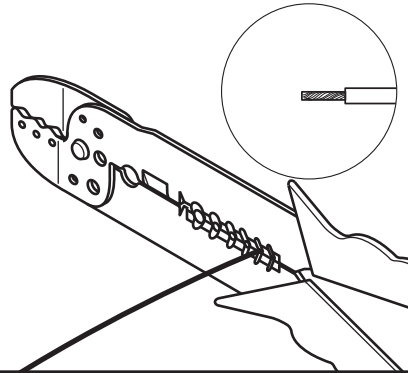
## CRIMP METHOD

Factory harness is removed. Save harness if it is to be reconnected in the future by this method.

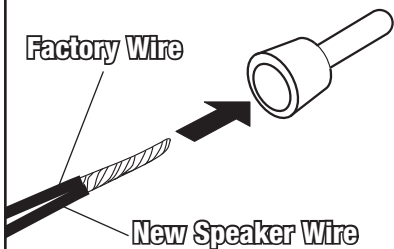
1. Cut factory wires behind factory speaker harness.



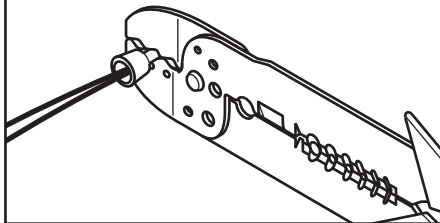
2. Strip end of each wire back 1/2".



3. Twist each positive pair of wires together and insert in crimp cap. Repeat step for negative wires.



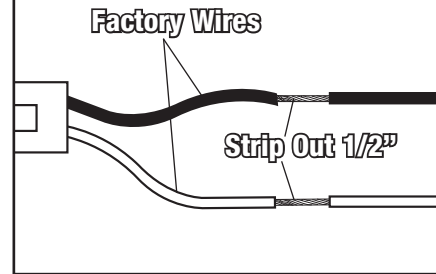
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



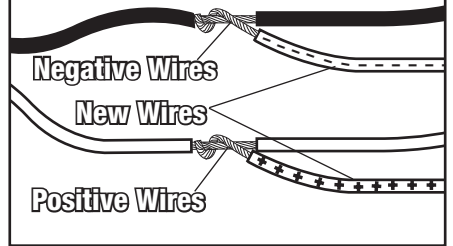
## SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

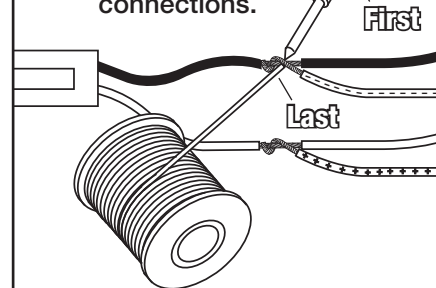
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



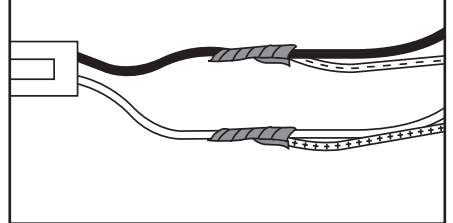
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



3. Heat wires first with soldering iron, then touch solder to wires for solid connections.



4. Wrap wiring connections with electrical tape.
5. Connect new wires to speaker with spade connectors.



1-800-955-9094  
TECHNICAL SUPPORT

# Wire Splicing Guide (continued)

*NOTE: In most cases a speaker wiring adaptor is available from Crutchfield and splicing will not be necessary. If no adaptor is available, use this chart as a guide to match and splice wires.*

Function	Polarity/Color/Location
Left front door/pillar speakers	positive (+): yellow/black, yellow or black, negative (-): yellow/green, white or red
Right front door/pillar speakers	positive (+): yellow or white, negative (-): white/black, white or green
Driver's headrest left speaker	positive (+): white/blue, negative (-): white/red
Driver's headrest right speaker	positive (+): white, negative (-): white/green
Passenger's headrest left speaker	positive (+): red/white, negative (-): white/black
Passenger's headrest right speaker	positive (+): blue/white, negative (-): green/white
Subwoofer	positive (+): brown or red, negative (-): green
Speed sense <sup>1</sup> (non-Bose system)	radio in dash or tuner above passenger's kick panel, white 24-pin plug, pin 19 - blue
Reverse <sup>1</sup> (+)	ESU <sup>2</sup> , white 18-pin plug, pin 12 - white/black
Parking brake <sup>1</sup>	parking brake switch, white 1-pin plug, pin 1 - red/black
Foot brake <sup>1</sup> (manual transmission)	brake switch, white 4-pin plug, pin 4 - red
Foot brake <sup>1</sup> (automatic transmission)	Start/Stop Unit in steering column, white 32-pin plug, pin 2 - red
<b>NOTES:</b> <ul style="list-style-type: none"> <li>If equipped with a factory amplifier, the amplifier will be located under the convertible top storage area..</li> <li><sup>1</sup>These wires and functions may also be generated by the OEM integration interface used when replacing the radio.</li> <li><sup>2</sup>ESU (Electrical Supply Unit) is located in the driver's kick panel against the firewall.</li> </ul>	

