Rockford Fosgate

— Installation assistance available at: —

RFTECH

www.rockfordfosgate.com/rftech

ELEMENT READY SPEAKERS

M2

M2-65
M2-65B
M2-8
M2-8B
M2-8H
M2-8HB
M2-TS

ELEMENT READY™

COLOR OPTIX™

IPX6

600 South Rockford Drive • Tempe, Arizona 85281 United States
Direct: (480) 967-3565 • Toll Free: (800) 669-9899

rockfordfosgate.com

Installation & Operation

Introduction

Dear Customer,

Congratulations on your purchase of the world's finest brand of audio products. At Rockford Fosgate we are fanatics about musical reproduction at its best, and we are pleased you chose our product. Through years of engineering expertise, hand craftsmanship and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your new Rockford Fosgate product installed by an Authorized Rockford Fosgate Dealer. Please read your warranty and retain your receipt and original carton for possible future use.

Great product and competent installations are only a piece of the puzzle when it comes to your system. Make sure that your installer is using 100% authentic installation accessories from Rockford Fosgate in your installation. Rockford Fosgate has everything from RCA cables and speaker wire to power wire and battery connectors. Insist on it! After all, your new system deserves nothing but the best.

To add the finishing touch to your new Rockford Fosgate image, order your Rockford accessories, which include everything from T-shirts to hats.

Visit our web site for the latest information on all Rockford products; **www.rockfordfosgate.com** or, in the U.S. call 1-800-669-9899 or FAX 1-800-398-3985. For all other countries, call +001-480-967-3565 or FAX +001-480-966-3983.

Table of Content

If, after reading your manual, you still have questions regarding this product, we recommend that you see your Rockford Fosgate dealer. If you need further assistance, you can call us direct at **1-800-669-9899**. Be sure to have your serial number, model number and date of purchase available when you call.

Safety

This symbol with "WARNING" is intended to alert the user to the presence of important instructions. Failure to heed the instructions could result in severe injury or death. ⚠ **WARNING**

PRACTICE SAFE SOUND
Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered auto sound systems may produce sound pressure levels well over 130dB. Use common sense and practice safe sound.

PRATIQUEZ UNE ÉCOUTE SANS RISQUES
Une exposition continue à des niveaux de pression acoustique upérieurs à 100 dB peut causer une perte d'acuité auditive permanente. Les systèmes audio de forte puissance pour auto peuvent produire des niveaux de pression acoustique bien au-delà de 130 dB. Faites preuve de bon sens et pratiquez une écoute sans risques

PRACTIQUE EL SONIDO SEGURO
El contacto continuo con niveles de presión de sonido superiores a 100 dB puede causar la pérdida permanente de la audición. Los sistemas de sonido de alta potencia para automóviles pueden producir niveles de presión de sonido superiores a los 130 dB. Aplique el sentido común y practique el sonido seguro.

PRAKTIZIEREN SIE SICHEREN SOUND
Fortgesetzte Geräuschdruckpegel von über 100 dB können beim Menschen zu permanentem Hörverlust führen. Leistungsstarke Autosoundsysteme können Geräuschdruckpegel erzeugen, die weit über 130 dB liegen. Bitte wenden Sie gesunden Menschenverstand an und praktizieren Sie sicheren Sound.

OSSERVATE LE REGOLE DEL SUONO SENZA PERICOLI
La costante esposizione a livelli di pressione acustica al di sopra dei 100dB possono causare la perdita permanente dell'udito. I sistemi audio ad alta potenza possono produrre livelli di pressione acustica ben superiori ai 130dB. Si consiglia il buon senso e l'osservanza delle regole del suono senza pericoli

This symbol with "CAUTION" is intended to alert the user to the presence of important instructions. Failure to heed the instructions could result in injury or unit damage. ⚠ **CAUTION**

- To prevent injury and damage to the unit, please read and follow the instructions in this manual.

- If you feel unsure about installing this system yourself, have it installed by a qualified Rockford Fosgate technician.

- Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.

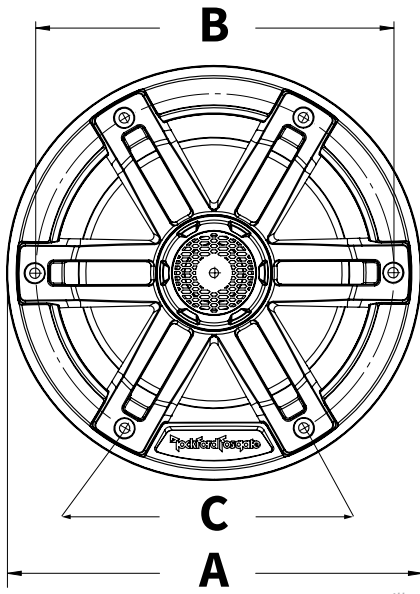| Model	M2-65 M2-65B	M2-8 M2-8B	M2-8H M2-8HB	M2-TS
Nominal Size - inch (mm)	6.5" (165mm)	8" (203mm)	8" (203mm)	1" (25.4mm)
Description	2-Way	2-Way	2-Way	1-Way
Nominal Impedance (Ohms)	4Ω	4Ω	4Ω	4Ω
Frequency Response (Hz)	40-24kHz	35-24kHz	35-25kHz	1425-25kHz
Power Handling - Watts (RMS/Peak)	150/600	250/1000	300/1200	200/800
Sensitivity (2.83V/1M)	91.8dB	93.1dB	94dB	97dB
Grille/Trim Ring	YES	YES	YES	Integrated
LED Current Draw	.25 Amps	.25 Amps	.25 Amps	N/A
Recommended Fused Rating	1 Amp	1 Amp	1 Amp	N/A
LED Voltage Range	9-16 Volts	9-16 Volts	9-16 Volts	N/A

*
  Rockford Fosgate determines its rated frequency response range at -6 dB below its nominal sensitivity at upper and lower extents of a speaker's output.
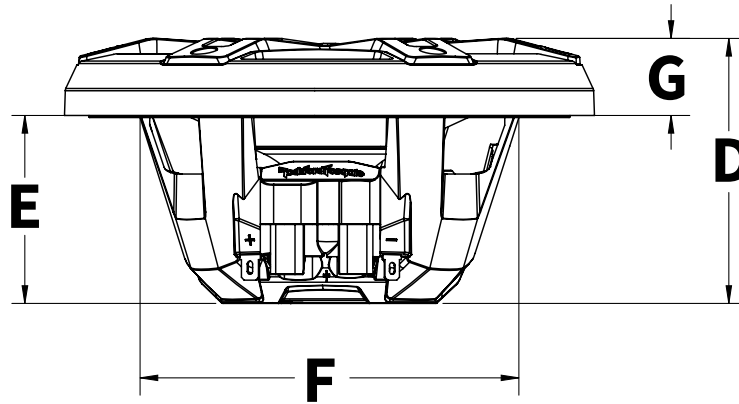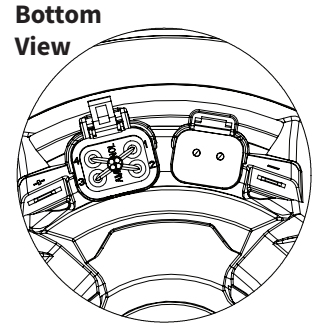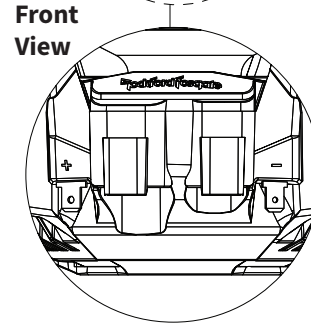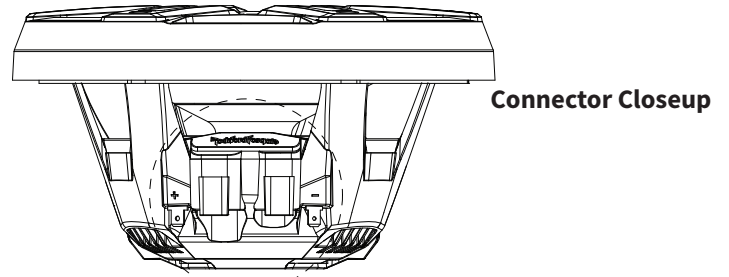
illus.-1.1

Connector Closeup

Front View

Bottom View

illus.-2.1

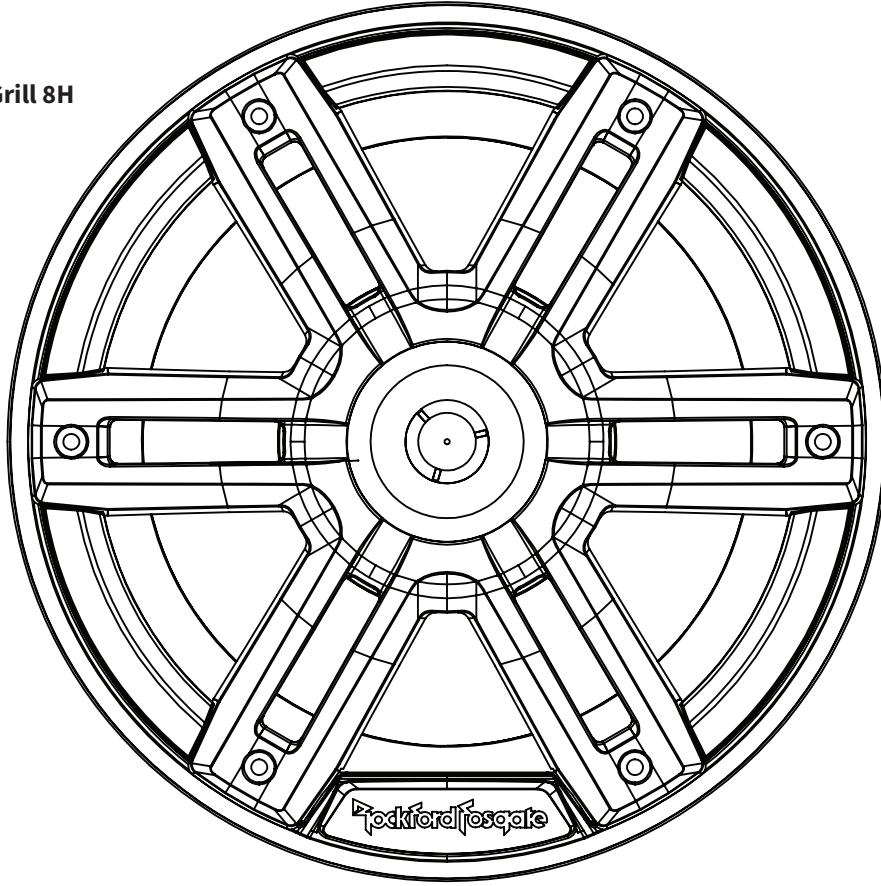| Model	M2-65 M2-65B	M2-8 M2-8B	M2-8H M2-8HB
Overall Diameter (A)	7.05" (179.12mm)	9.07" (230.4mm)	9.07" (230.4mm)
Screw Mounting Diameter (B)	6.12" (155.5mm)	7.76" (197mm)	7.76" (197mm)
Mounting Screw Angle (C)	6@60°	6@60°	6@60°
Overall Height (D)	3.54" (90mm)	4.58" (116.4mm)	4.58" (116.4mm)
Mounting Depth (E)	2.49" (63.2mm)	3.35" (85mm)	3.35" (85mm)
Cut-out Diameter (F)	5.36" (136.2mm)	7.05" (179.1mm)	7.05" (179.1mm)
Grill Height (G)	1.03" (26.1mm)	1.23" (31.4mm)	1.23" (31.4mm)

Sport Grill 6.5" & 8"
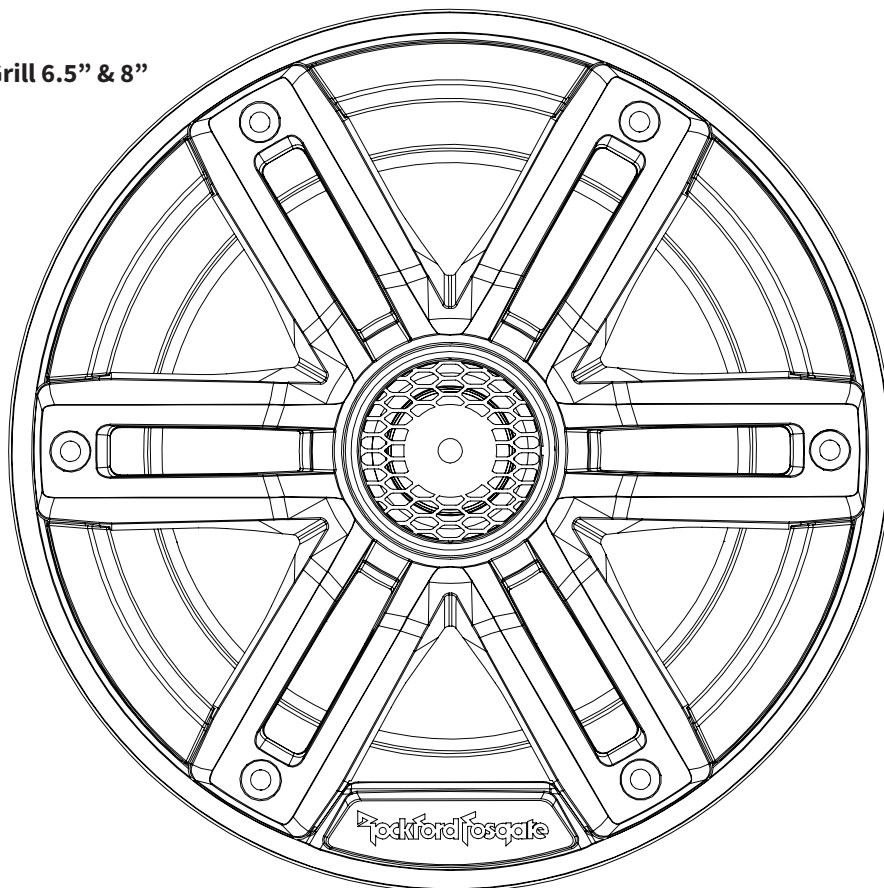
Stainless Steel Grill 6.5" & 8"

Diagrams
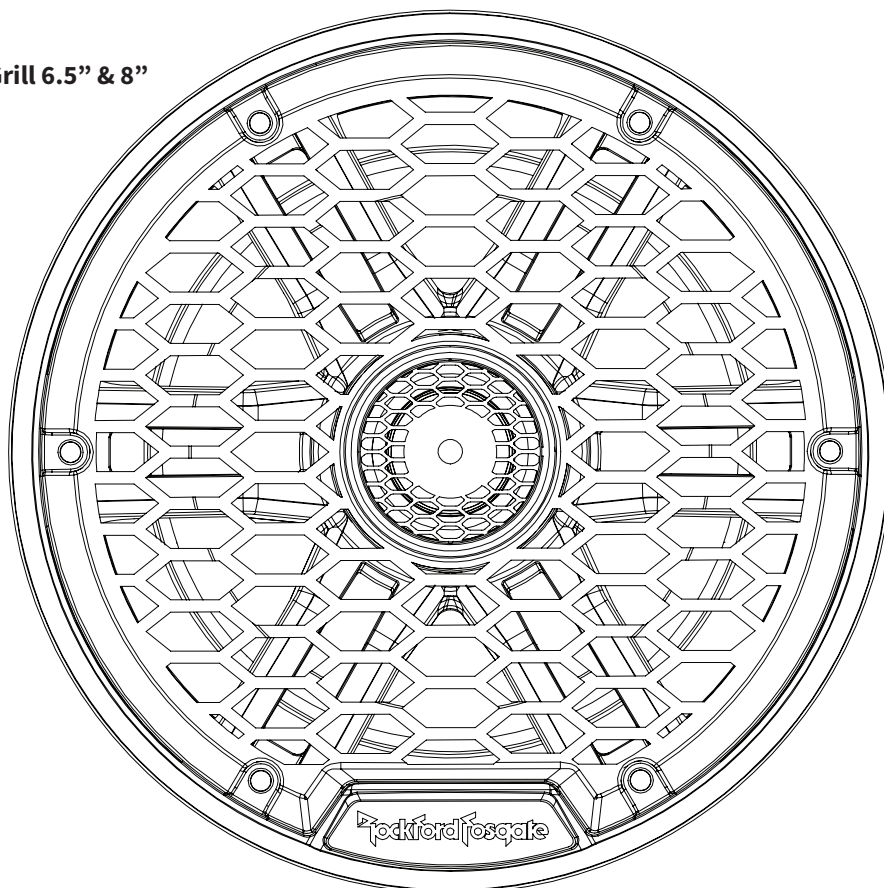
Sport Grill 8H

Stainless Steel Grill 8H

Flush Mount

2.1"
(54mm)

0.4"
(9mm)

1.8"
(44mm)

0.9"
(23mm)

2.4" Dia.
(60mm)

Optional Horn Loading Mounting Flange

4.3"
(110mm)

3.9" Dia.
(100mm)

2.8"
(71mm)

2.8"
(71mm)

3.6"
(91mm)

0.3"
(6mm)

1.4"
(37mm)

Crossover

1.3"
(33mm)

3.7"
(93mm)

1.5"
(39mm)

4.3"
(108mm)

1.9"
(48mm)

OUT
+ −
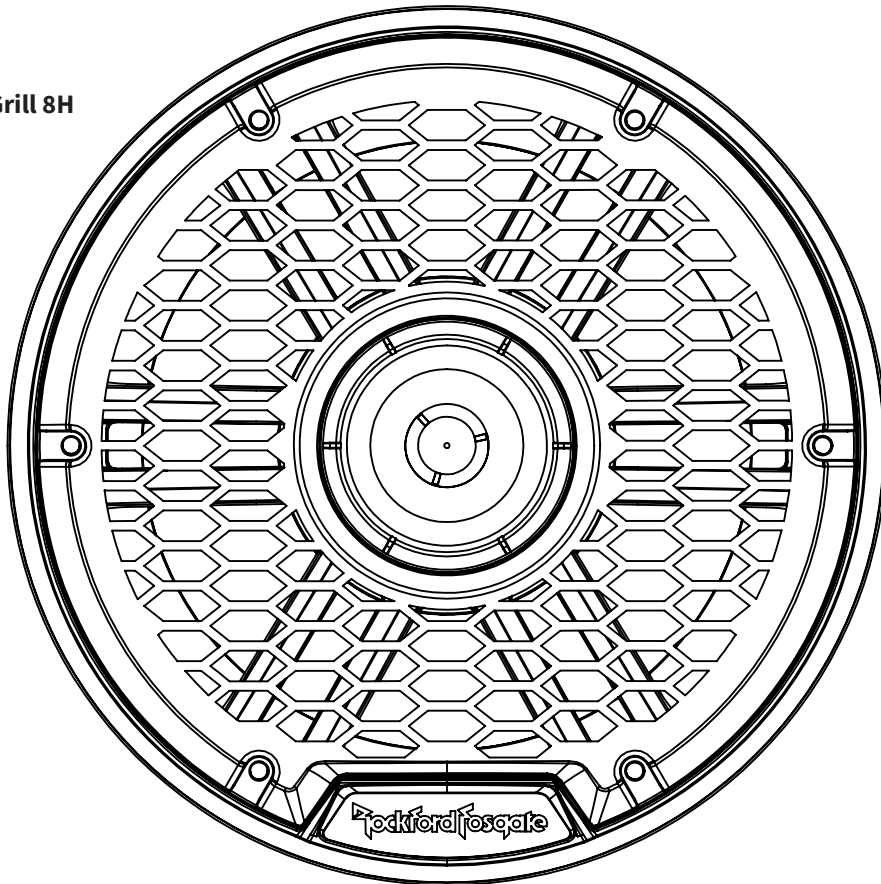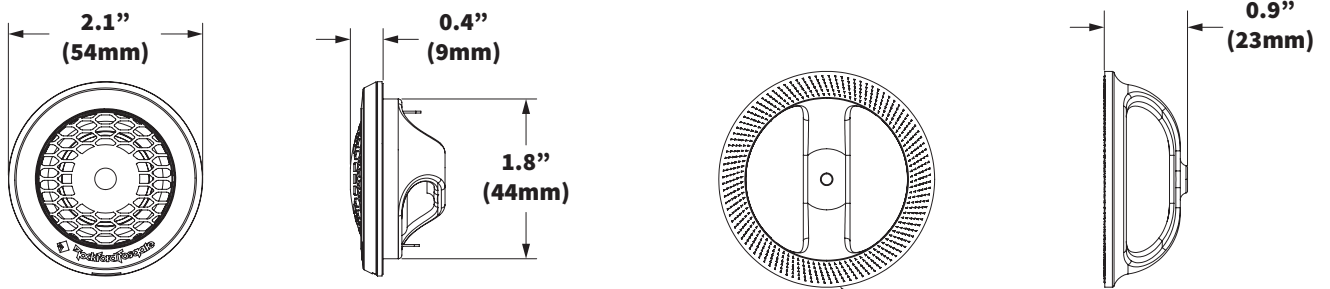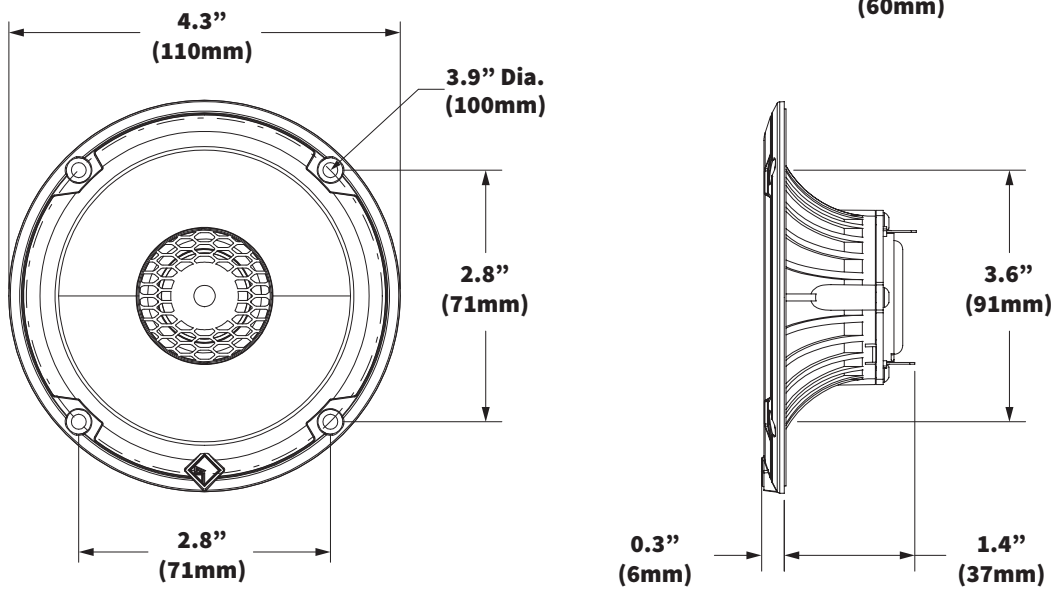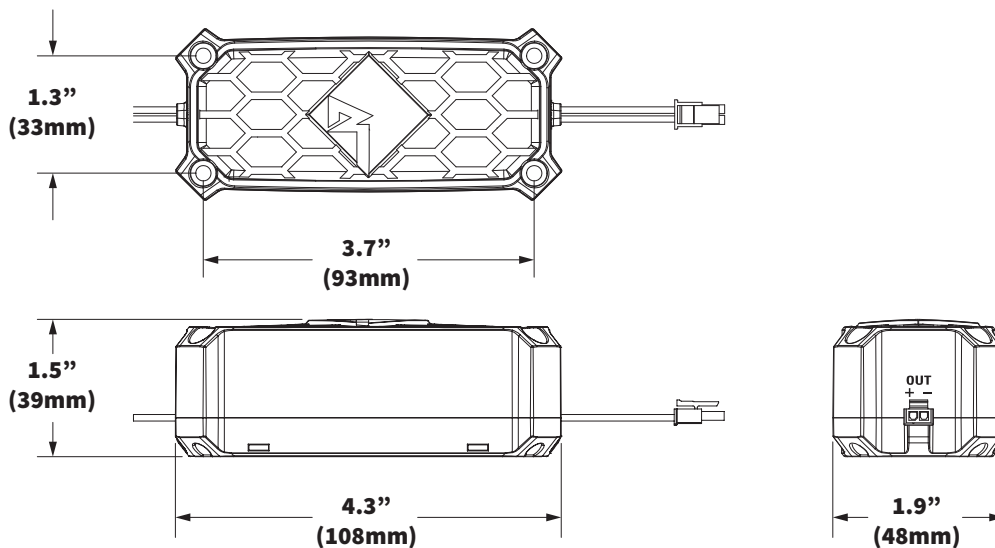
COLOR OPTIX™ Wiring

COLOR OPTIX™ Wiring Precautions

- *Do not connect to 24 Volt electrical systems*

- *We recommend only using the COLOR OPTIX™ wiring chart or connecting to the PMX-RGB. Connecting any other way could cause damage to the speakers or the device you have connected to.*

- *We recommend installing a fuse (not included) on the Yellow 12 Volt wire whenever you are NOT using the PMX-RGB. See COLOR OPTIX™ wiring chart for wiring options.*

- *Rockford recommends a minimum of 20 gauge wire when hard wiring your COLOR OPTIX™ speakers.*

- *Never wire the COLOR OPTIX™ lights directly to 12 volts. Utilize either the PMX-RGB or a toggle switch (not included) connected to a fused 12 volt power supply. Refer to the specifications to determine the size of fuse (not included) needed*

If not using the PMX-RGB, follow the diagrams below for proper pin out and hardwiring instructions.
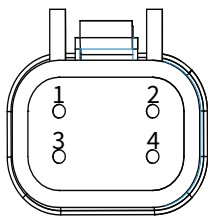
COLOR OPTIX™ WIRING OPTIONS	
LED OUTPUT COLOR	*CONNECT THIS COLOR WIRE TO GROUND*
RED	*RED*
GREEN	*GREEN*
BLUE	*BLUE*
YELLOW	*RED & GREEN*
PINK	*RED & BLUE*
AQUA	*GREEN & BLUE*
WHITE	*RED, GREEN & BLUE*

Connect colored wires on right to make output color on left.
Connect all Yellow wires together to switched 12 Volts. See Wiring Precautions.

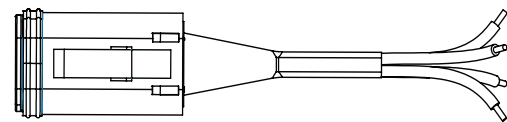### COLOR OPTIX™ Pin Out (wire side)

1 - RED (Ground Input)
2 - Yellow (12V + Input)
3 - Blue (Ground Input)
4 - Green (Ground Input)
Included with speakers
Connector is DEUTSCH™/Amphenol style DT06-4S

illus.-4.1

COLOR OPTIX™ Connector

Included

illus.-4.2

SPEAKER Wiring

There are (2) different options for wiring your speakers.
Use the included spade connectors (included) as seen in illustration 3.1
You can also utilize the DEUTSCH™/Ampaenol connector (not included) input next to the COLOR OPTIX™ connector.
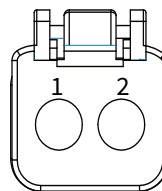
Speaker Pin Out (wire side)
1 - RED - Positive Speaker Input
2 - BLACK - Negative Speaker Input
NOT included with speakers
Connector is DEUTSCH™ style DT06-2S

illus.-4.3

Contents

- (1) Pair Marine Grade Speakers
- (1) Pair Removable Marine Grade Sport Grills
- (1) Pair of Stainless Steel Grill Inserts
- (13) Socket head stainless screws
- (2) Socket head driver bit
- (2) RGB Harness
- (1) Pair of M2-TS Tweeters (M2-TS ONLY)
- (1) Pair External 18dB/Oct Crossover(M2-TS ONLY)
- (1) Pair Flush Mount Clamps(M2-TS ONLY)
- (1) Pair Horn Loading Mounting Flange w/ O-rings(M2-TS ONLY)

Installation Considerations

Before beginning any installation, follow these simple rules:

1. Be sure to carefully read and understand the instructions before attempting to install these speakers.

2. For easier assembly, we suggest you run all wires prior to mounting your speakers in place.

3. Use high quality connectors for a reliable installation and to minimize signal or power loss.

4. Think before you drill! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle. If installation in a boat, take care not to cut or drill through the main hull.

5. Never run wires underneath the vehicle. Running the wires inside the vehicle or hull area provides the best protection.

6. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.

Mounting

1. Determine where the speakers will be mounted. Ensure an area large enough for the speaker to mount evenly. Be sure that the mounting location is deep enough for the speaker to fit; if mounting in a door, operate all functions (windows, locks, etc.) through their entire operating range to ensure there is no obstruction.

2. Refer to the specification chart to determine the proper diameter hole to cut for your speaker model. Cutting and mounting templates can be found at www.rockfordfosgate.com.

3. Mark the locations for the mounting screws. Drill the holes with a 1/8" bit.

4. Feed the speaker wires through the cutout and connect to the speaker terminals. Be sure to observe proper polarity when connecting the wires. The speaker's positive terminal is indicated with a "+".

5. Fit the trim ring over the speaker and mount into place using the four (4) screws that are provided.

6. Tighten the screws until the speaker is snug in place to prevent rattling. Do not over tighten the screws.
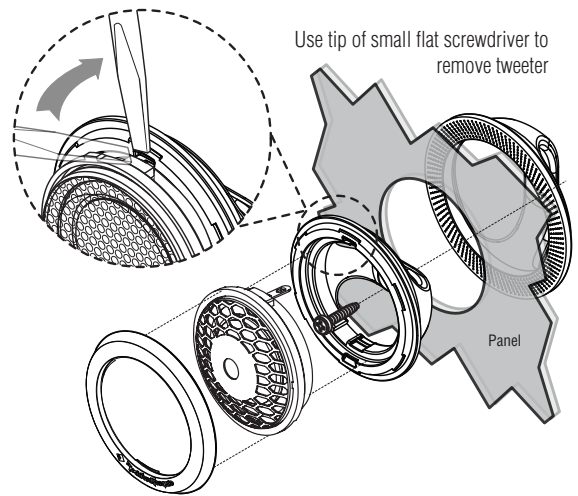
Installation

Mounting (M2-TS ONLY)
Flush Mount Option

1. Determine where the tweeter will be mounted. Ensure an area large enough for the tweeter to mount evenly. Be sure that the mounting location is deep enough for the tweeter to fit; if mounting in a door, operate all functions (windows, locks, etc.) through their entire operating range to ensure there is no obstruction.

2. Mark the location for the mounting hole. Drill the hole with a standard 1.75 inch (45mm) hole saw.

3. With a single center screw secure the inner cup from the front of the door panel to the outer cup from back of the door panel. Tighten the screw until balanced pressure is applied to both faces of the mounting surface.

4. Feed the speaker wires through the cutout. Be sure to observe proper polarity when connecting the wires. The speaker's lead wires are indicated with a WHITE wire "+" and a BLACK wire "-".

5. Simply snap the tweeter into place and secure with a snap-on trim ring. Removal is easy if needed. The protective grille on the tweeter is non-removable and an integral part of the design.

Flush Mount Clamp
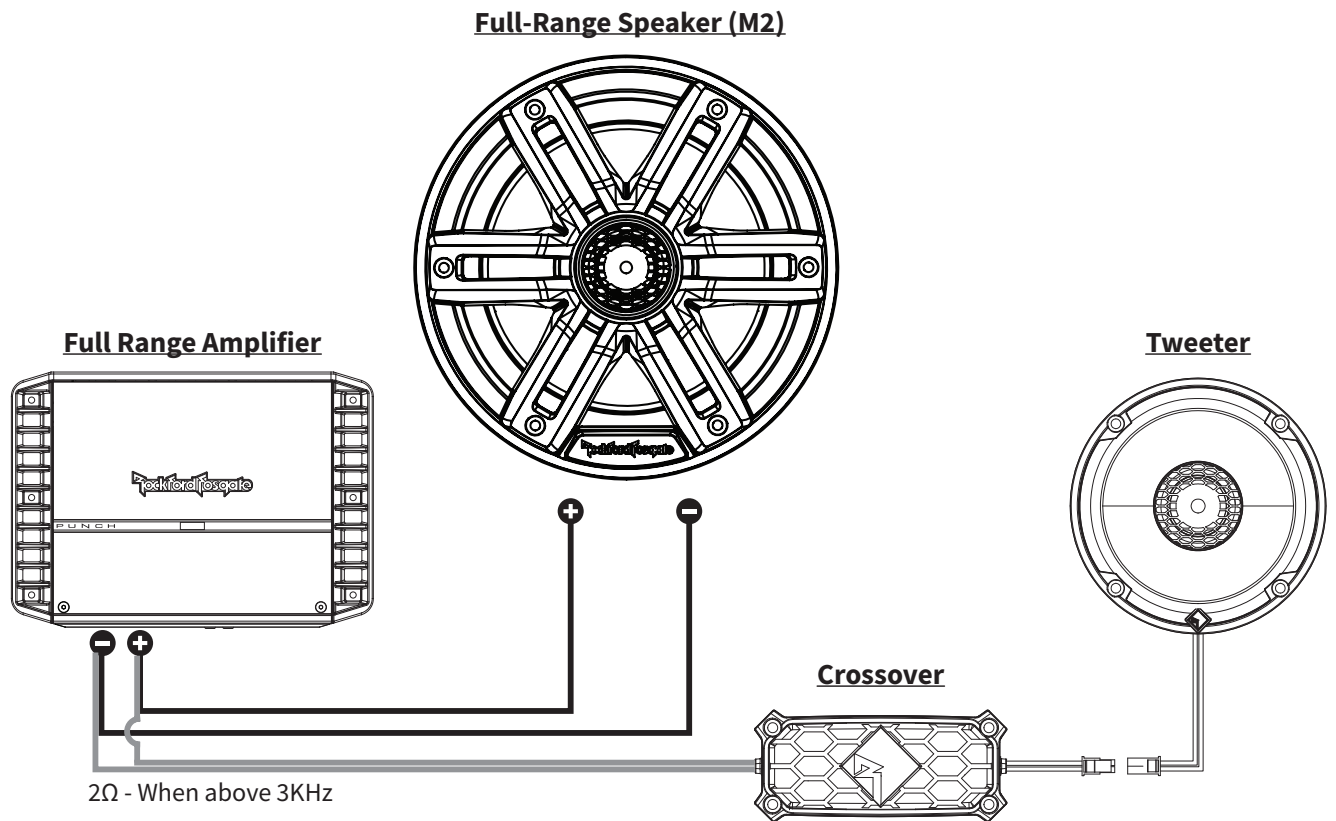
Use tip of small flat screwdriver to remove tweeter

Panel

Optional Horn Loading Mounting

1. Determine where the tweeter will be mounted. Ensure an area large enough for the speaker to mount evenly. Be sure that the mounting location is deep enough for the speaker to fit; if mounting in a door, operate all functions (windows, locks, etc.) through their entire operating range to ensure there is no obstruction.

2. Mark the location for the mounting hole.

3. Cut or use a hole saw to drill a 3-5/8" (91mm) hole for the flange to fit.

4. Once you have the hole cut, insert the flange and mark the locations for the mounting screws. Predrill your mounting screw holes.

5. Assemble the horn flange, o-ring, tweeter and retaining ring together. Pay close attention to the alignment tab on both the tweeter and flange. These need to be lined up for proper tweeter orientation in the flange.

6. Feed the speaker wires through the cutout. Be sure to observe proper polarity when connecting the wires. The speaker's lead wires are indicated with a WHITE wire "+" and a BLACK wire "-".

7. Secure the flange with the included stainless steel mounting hardware.

Optional Horn Loading Mounting Flange

Retainer

Tweeter

O-ring

Flange
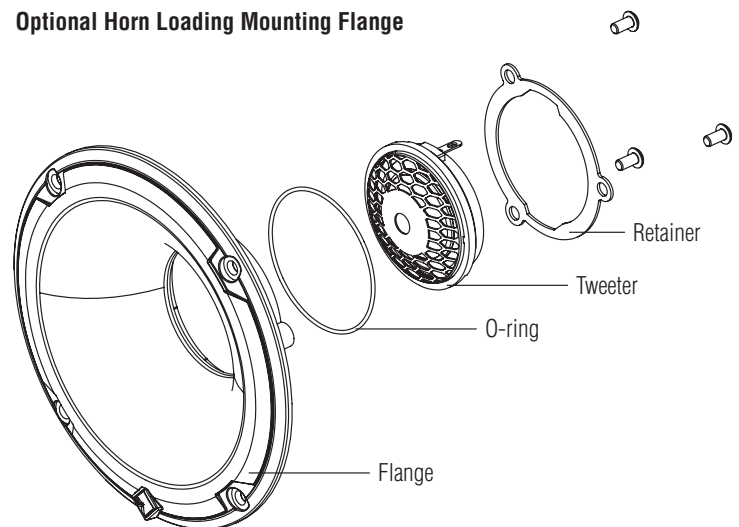
Add On M2T-S Tweeter with M2 Speaker

Full-Range Speaker (M2)

Full Range Amplifier

Tweeter

Crossover

2Ω - When above 3KHz

NOTE: Your amplifier needs to be 2Ω stable per channel when wired in this configuration.

Individual Tweeter

Full Range Amplifier

Tweeter

Crossover

4Ω
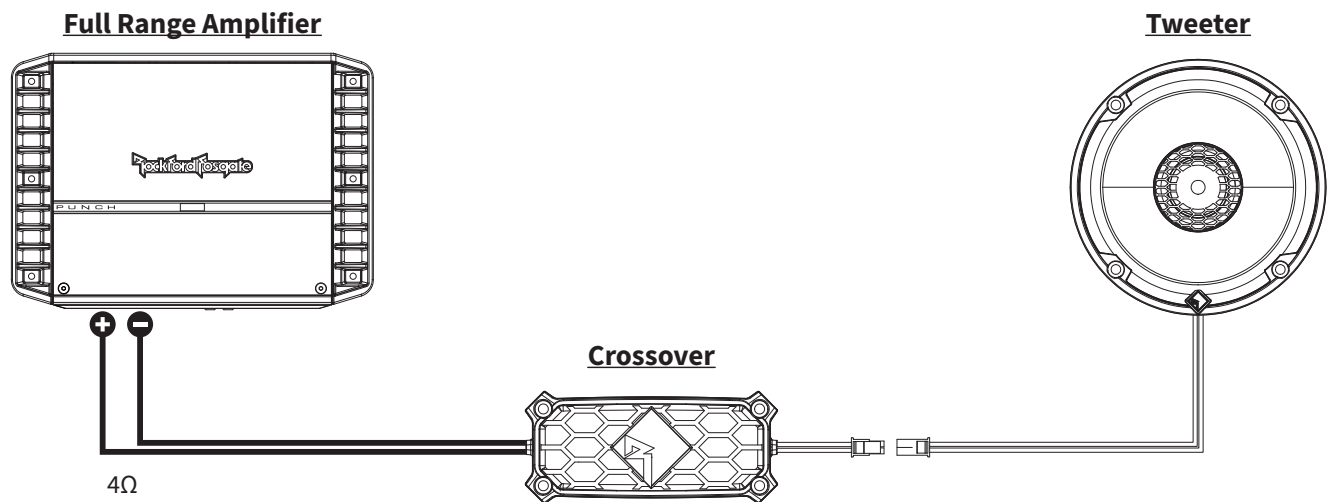
Rockford Corporation offers a limited warranty on Rockford Fosgate products on the following terms:

Length of Warranty

POWER Amplifiers – 2 Years
BMW® Direct Fit Speakers – 2 Years
PUNCH® & PRIME® Amplifiers – 1 Year
Speakers, Signal Processors, Accessories and Capacitors – 1 Year
All marine, motorcycle, motorsport products - 2 Years
Any Factory Refurbished Product – 90 Days (receipt required)

What is Covered

This warranty applies only to Rockford Fosgate products sold to consumers by authorized Rockford Fosgate dealers in the United States of America. Products purchased by consumers from an Authorized Rockford Fosgate Dealer in another country are covered only by that country's Distributor and not by Rockford Corporation.

Who is Covered

This warranty covers only the original purchaser of Rockford product purchased from an authorized Rockford Fosgate dealer in the United States. In order to receive service, the purchaser must provide Rockford with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford's discretion.

What is Not Covered

1. *Damage caused by accident, abuse, improper installation, operations, theft, water (on non-Element Ready products).*

2. *Any cost or expense related to the removal or reinstallation of product.*

3. *Service performed by anyone other than Rockford or an authorized Rockford Fosgate service center.*

4. *Any product which has had the serial number defaced, altered, or removed.*

5. *Subsequent damage to other components.*

6. *Any product purchased outside the U.S.*

7. *Any product not purchased from an authorized Rockford Fosgate dealer. Refer to rockfordfosgate.com dealer locator for more detail.*

Limit on Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Rockford Fosgate any other liability in connection with the sale of the product.

How to Obtain Service

Please call 1-800-669-9899 for Rockford Customer Service. You must obtain an RA# (Return Authorization number) to return any product to Rockford Fosgate. You are responsible for shipment of product to Rockford.

EU Warranty

This product meets the current EU warranty requirements, see your Authorized dealer for details.