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## DS18 CF-10M

# DS18 Hydro CF-10M 10-Inch Marine Coaxial Speakers with RGB Lights Instruction Manual

Model: CF-10M

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DS18 Hydro CF-10M 10-inch Marine Coaxial Speakers. These speakers are designed for marine and off-road environments, offering high-quality audio and integrated RGB lighting. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.

## Key Features:

- **2-Way Coaxial Design:** Integrated tweeter and mid-range woofer for a wide frequency range (35Hz - 20KHz).
- **High Power Handling:** 600 Watts maximum power output.
- **Integrated RGB Lighting:** Customizable LED lights to match various color schemes, compatible with DS18 LED-BTC controller (sold separately).
- **Marine Grade Durability:** IP65 waterproof rating and 100% UV stable construction for harsh environments.
- **Carbon Fiber Cone:** Enhanced sound quality and durability.

## SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the product:

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Use appropriate personal protective equipment (PPE) during installation, such as safety glasses.
- Do not operate the speakers at excessively high volumes for prolonged periods, as this may cause hearing damage.
- Consult a professional installer if you are unsure about any part of the installation process.

## WHAT'S IN THE Box

Your DS18 Hydro CF-10M speaker package includes:

- One pair of marine coaxial speakers

## SETUP AND INSTALLATION

### Mounting

Careful planning of the mounting location is crucial for optimal sound performance and speaker longevity. Ensure the chosen location provides sufficient clearance for the speaker's depth and allows for secure fastening.

- **Overall Diameter:** 10.7 inches (274mm)
- **Mounting Depth:** 4.2 inches (106.6mm)
- **Front Mount Baffle Cut Out:** 8.75 inches (222mm)



Figure 1: Speaker Dimensions for Installation

1. Select a flat, sturdy mounting surface that can support the speaker's weight and withstand vibrations.
2. Using the provided template (if applicable) or the specified cut-out dimensions, carefully mark and cut the mounting hole.
3. Drill pilot holes for the mounting screws.

4. Position the speaker into the opening and secure it with the provided hardware. Do not overtighten screws.

## Audio Wiring

The DS18 Hydro CF-10M speakers have an impedance of 4 Ohms. Ensure your amplifier is stable at this impedance. Connect the speaker wires to the appropriate positive (+) and negative (-) terminals on your amplifier.



Figure 2: Speaker Wiring Terminals

1. Identify the positive (+) and negative (-) terminals on the speaker and your amplifier.
2. Connect the positive speaker wire from the amplifier to the positive terminal on the speaker.
3. Connect the negative speaker wire from the amplifier to the negative terminal on the speaker.
4. Ensure all connections are secure and free from corrosion, especially in marine environments.

## RGB Lighting Connection

The integrated RGB lights require a separate connection. These speakers are compatible with the DS18 LED-BTC controller (sold separately) for full color control via an app.

# RGB LED LIGHTS TO BRIGHTEN UP YOUR NIGHT AND MATCH COLOR SCHEMES



Sold as pairs



IP65  
Waterproof



UV  
Stable



DS18 LED-BTC  
Compatible

# DS18®

CF-10M

Figure 3: RGB LED Lighting Feature

1. Connect the RGB wiring from the speaker to the DS18 LED-BTC controller according to the controller's instructions.
2. Ensure the controller is powered correctly and connected to your device for app control.

## OPERATION

### Audio Playback

Once properly installed and wired, your DS18 Hydro CF-10M speakers will reproduce audio from your connected source. Adjust volume and audio settings through your head unit or amplifier.

### RGB Light Control

The RGB lighting can be controlled via an app when connected to a compatible DS18 LED-BTC controller. Refer to the controller's manual for specific instructions on changing colors, patterns, and brightness.

## MAINTENANCE

To ensure the longevity and performance of your DS18 Hydro CF-10M speakers, follow these maintenance

guidelines:

- **Cleaning:** Regularly clean the speaker grilles and cones with a soft, damp cloth. Avoid harsh chemicals or abrasive cleaners that could damage the finish or waterproof seals.
- **Water Resistance:** While the speakers are IP65 rated, avoid direct high-pressure water sprays. After exposure to saltwater, rinse with fresh water to prevent salt buildup and corrosion.
- **UV Stability:** The materials are 100% UV stable, but prolonged exposure to extreme sunlight can still cause minor fading over many years.
- **Inspections:** Periodically check all wiring connections for tightness and signs of corrosion or wear.

## TROUBLESHOOTING

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If you encounter issues with your speakers, refer to the following common problems and solutions:

- **No Sound:**

- Check all audio wiring connections at both the speaker and amplifier.
- Verify the amplifier is powered on and functioning correctly.
- Ensure the audio source is playing and volume is turned up.

- **Distorted Sound:**

- Reduce the volume level to check if distortion is due to overdriving the speakers or amplifier.
- Inspect speaker cones for any physical damage.
- Check for loose wiring connections.

- **RGB Lights Not Working:**

- Ensure the DS18 LED-BTC controller is properly connected and powered.
- Verify the app control is functioning and settings are correct.
- Check RGB wiring for secure connections.

## SPECIFICATIONS

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Feature	Value
Model Name	DS18
Speaker Type	Woofer
Special Feature	Waterproof
Recommended Uses For Product	Music, Vehicle
Compatible Devices	Boat
Subwoofer Diameter	10 Inches
Unit Count	2.0 Count
Surround Sound Channel Configuration	2.0
Color	Carbon Fiber

Feature	Value
Included Components	Pair marine speakers
Product Dimensions	5.7"D x 10.7"W x 8.75"H
Impedance	4 Ohm
Is Waterproof	True
Warranty Type	Limited
Number of Items	1
Control Method	App
Speaker Size	10 Inches
Power Source	DC power supply
Signal-to-Noise Ratio	94.3 dB
Woofer Diameter	10.7 Inches
Tweeter Diameter	1 Inches
Vehicle Service Type	Boat, UTV, ATV, Jeep
Water Resistance Level	Water Resistant
Customer Package Type	Standard Packaging
Audio Driver Type	Dynamic Driver
Audio Driver Size	6.5 Inches
Subwoofer Connectivity Technology	Wired
Includes MP3 player?	No
Specific Uses For Product	Outdoor activities, Marine, UTV, ATV, Jeeps
UPC	810097260191
Style	Metal Mesh Grill
Manufacturer	DS18
Item Weight	19.62 pounds
ASIN	B09SVKXTJ2
Item model number	CF-10M
Date First Available	February 18, 2022
Brand	DS18
Speaker Maximum Output Power	600 Watts
Connectivity Technology	Coaxial
Audio Output Mode	Surround

Mounting Type <b>Feature</b>	Coaxial, Boat Mount <b>Value</b>
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## WARRANTY AND SUPPORT

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### Limited Warranty

The DS18 Hydro CF-10M speakers come with a limited warranty. Please refer to the warranty card included with your product or visit the official DS18 website for detailed terms and conditions regarding coverage and duration.

### Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact DS18 customer support. You can find contact information and additional resources on the official DS18 website or through your authorized dealer.

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