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Harman Kardon FLOW600CF

Harman Kardon Flow Component Speakers System

Model: FLOW600CF

1. INTRODUCTION

The Harman Kardon Flow Component Speakers System is engineered to deliver a superior audio experience in your vehicle. This system features 6.5-inch component speakers with Aluminum Deep Ceramic Composite Cones and Plus One Technology, paired with a 3/4-inch Edge-driven Silk Dome Tweeter capable of producing high-resolution notes up to 40kHz. Its thoughtful design allows for versatile mounting options and offers 3-way upgradability for enhanced audio configurations.

This manual provides essential information for the proper installation, operation, and maintenance of your Harman Kardon Flow Component Speakers System.



Figure 1.1: Overview of the Harman Kardon Flow Component Speakers System components.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the speakers. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery negative terminal before beginning any electrical installation to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent pinching or abrasion.
- Do not install speakers in locations that obstruct the driver's view or interfere with vehicle safety features (e.g., airbags).
- Avoid exposing the speakers to excessive moisture or extreme temperatures.
- If you are unsure about any part of the installation process, consult a qualified car audio professional.
- Use appropriate personal protective equipment, such as safety glasses, during installation.

3. PACKAGE CONTENTS

Verify that all items are present in the package before beginning installation:

- 2x Speakers (Woofers)
- 2x Crossovers
- 2x Tweeters
- 2x Threaded flush-mount adapters
- 2x Plastic locking nuts
- 1x Owner's Manual (OM)
- 16x Screws
- 16x Speed clips
- 2x EVA foam gasket



Figure 3.1: Individual components of the speaker system.

4. SETUP AND INSTALLATION

The Harman Kardon Flow Component Speakers System is designed for flexible installation due to its shallow

mounting depth. Proper installation is crucial for optimal sound performance and vehicle integrity.

4.1. Planning the Installation

- **Location Selection:** Identify suitable locations in your vehicle for the woofers, tweeters, and crossovers. Woofers are typically installed in door panels or rear decks. Tweeters can be flush-mounted in pillars or dash locations for optimal sound staging. Crossovers should be placed in a dry, accessible location, away from heat sources.
- **Wiring Path:** Plan the routing of speaker wires from your amplifier/head unit to the crossovers, and then from the crossovers to the woofers and tweeters. Ensure wires are not pinched or exposed to sharp edges.

4.2. Woofer Installation

The 6.5-inch woofers are designed for easy integration into standard speaker openings. The shallow design expands mounting possibilities.

1. Remove the existing speaker or trim panel from the desired mounting location.
2. Carefully place the woofer into the opening. If necessary, use the provided EVA foam gasket to ensure a tight seal and prevent vibrations.
3. Secure the woofer using the provided screws and speed clips. Ensure it is firmly mounted.
4. Connect the speaker wires from the crossover to the woofer terminals, observing correct polarity (+ to + and - to -).



Figure 4.1: Woofer installed in a vehicle door panel.

4.3. Tweeter Installation

The 3/4-inch silk dome tweeters can be flush-mounted for a clean, integrated look.

1. Choose a suitable location for the tweeter, such as A-pillars or dashboard corners, ensuring it does not obstruct visibility.

2. Using the flush-mount adapter as a template, carefully cut an opening in the mounting surface.
3. Insert the tweeter into the flush-mount adapter and secure it with the plastic locking nut from behind the panel.
4. Connect the tweeter wires from the crossover to the tweeter terminals, observing correct polarity.



Figure 4.2: Tweeter installed in a vehicle's interior.

4.4. Crossover Installation and Wiring

The passive crossovers manage the audio signal, directing appropriate frequencies to the woofers and tweeters.

1. Mount the crossovers in a secure, dry location, such as behind the kick panels or under the dashboard. Ensure they are easily accessible for future adjustments if needed.
2. Connect the main input wires from your amplifier or head unit to the 'INPUT' terminals on the crossover.
3. Connect the wires from the 'WOOFER' output terminals on the crossover to the woofer.
4. Connect the wires from the 'TWEETER' output terminals on the crossover to the tweeter.
5. Double-check all connections for correct polarity and secure fitment.

4.5. 3-Way Upgradability

This system supports an easy upgrade to a 3-way configuration with an additional pair of 3-inch Harman Kardon midrange woofers (sold separately). Refer to the instructions provided with the midrange woofers for specific wiring and integration details.

5. OPERATING THE SYSTEM

Once properly installed, your Harman Kardon Flow Component Speakers System will deliver high-fidelity audio. The operation of the speakers is dependent on your car's head unit or external amplifier.

- **Power On:** Turn on your car's audio system.
- **Volume Control:** Adjust the volume gradually to a comfortable listening level. Avoid excessively high volumes that can cause distortion or damage to the speakers.

- **Audio Settings:** Utilize your head unit's or amplifier's equalizer and sound processing features to fine-tune the audio output to your preference. Experiment with bass, treble, and balance settings.
- **Break-in Period:** Like all new speakers, your Harman Kardon components may benefit from a break-in period of several hours of normal listening. This allows the speaker surrounds to loosen, potentially improving bass response and overall sound clarity.

6. MAINTENANCE

Proper care will ensure the longevity and performance of your speakers.

- **Cleaning:** Gently wipe the speaker grilles and cones with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Environmental Factors:** While designed for automotive use, avoid prolonged exposure to extreme temperatures or direct sunlight when possible, as this can degrade materials over time.
- **Protection:** Ensure speaker grilles are properly installed to protect the cones from physical damage.

7. TROUBLESHOOTING

If you experience issues with your Harman Kardon Flow Component Speakers System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring; Amplifier/head unit off or faulty; Blown fuse.	Check all wiring connections for secure fit and correct polarity. Ensure amplifier/head unit is powered on and functioning. Check vehicle's audio system fuses.
Distorted sound	Volume too high; Incorrect gain settings on amplifier; Damaged speaker cone/voice coil; Poor signal source.	Reduce volume. Adjust amplifier gain settings. Inspect speaker cones for physical damage. Try a different audio source.
One speaker not working	Loose connection to that speaker/crossover; Faulty speaker/crossover; Balance setting.	Check wiring to the specific speaker and its crossover. Verify balance settings on your head unit. If problem persists, the speaker or crossover may be faulty.
Lack of bass or treble	Incorrect crossover settings; EQ settings on head unit/amplifier.	Ensure crossover connections are correct. Adjust equalizer settings on your audio source.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional car audio technician.

8. SPECIFICATIONS

Detailed technical specifications for the Harman Kardon Flow Component Speakers System:

Feature	Specification
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Feature	Specification
Model Name	FLOW COMPONENT SPEAKER SYSTEM
Item Model Number	FLOW600CF
Speaker Type	Component
Speaker Size	6.5 Inches (Woofer)
Tweeter Size	3/4 Inch
Material	Aluminum (Cones)
Color	Black
Impedance	4 Ohm
Speaker Maximum Output Power	360 Watts
Frequency Response	4 kHz - 40 kHz (Tweeter)
Signal-to-Noise Ratio	91 dB
Mounting Type	Flush Mount (Tweeter)
Product Dimensions	3"D x 6.5"W x 6.8"H
Item Weight	8.03 pounds (3.65 Kilograms)
Manufacturer	Harman Kardon
UPC	028292289231

9. WARRANTY INFORMATION

The Harman Kardon Flow Component Speakers System comes with a limited warranty. Please refer to the warranty card included in your product packaging for specific terms, conditions, and duration of coverage. Retain your proof of purchase for warranty claims.

10. SUPPORT

For technical assistance, installation queries, or warranty service, please contact Harman Kardon customer support. Visit the official Harman Kardon website for the most up-to-date contact information and support resources.

Note: Always provide your product model number (FLOW600CF) and proof of purchase when contacting support.

