Maclean MC-703

Maclean Brackets MC-703 Back to Back TV Mounting Head User Manual

Model: MC-703

1. Introduction

This manual provides comprehensive instructions for the safe and effective installation, operation, and maintenance of your Maclean Brackets MC-703 Back to Back TV Mounting Head. Please read this manual thoroughly before installation and retain it for future reference.
The MC-703 is designed to securely mount two LED, LCD, or Plasma TVs in a back-to-back configuration, ideal for ceiling mount applications in retail or commercial environments. It supports screens from 37" to 70" with a maximum load capacity of 50kg (110lbs).

2. Safety Information

- **Read all instructions:** Ensure you understand all instructions before assembly and installation. If you have any doubts, consult a qualified professional.
- **Weight Capacity:** Do not exceed the maximum load capacity of 50kg (110lbs). Exceeding this limit can result in serious injury or property damage.
- **Screen Size:** This mount is designed for screens between 37" and 70".
- **Mounting Surface:** The ceiling structure must be capable of safely supporting the combined weight of the mount and the displays.
- **Tools:** Use appropriate tools for installation.
- **Tighten Fasteners:** Ensure all screws and bolts are securely tightened, but do not overtighten.
- **Regular Inspection:** Periodically check the mount for any signs of wear, damage, or loose connections.

3. Package Contents

Verify that all components are present and undamaged before proceeding with installation. If any parts are missing or damaged, contact your supplier.

- MC-703 Back to Back TV Mounting Head

- Mounting accessories (various screws, washers, spacers)
- Instruction Manual (this document)

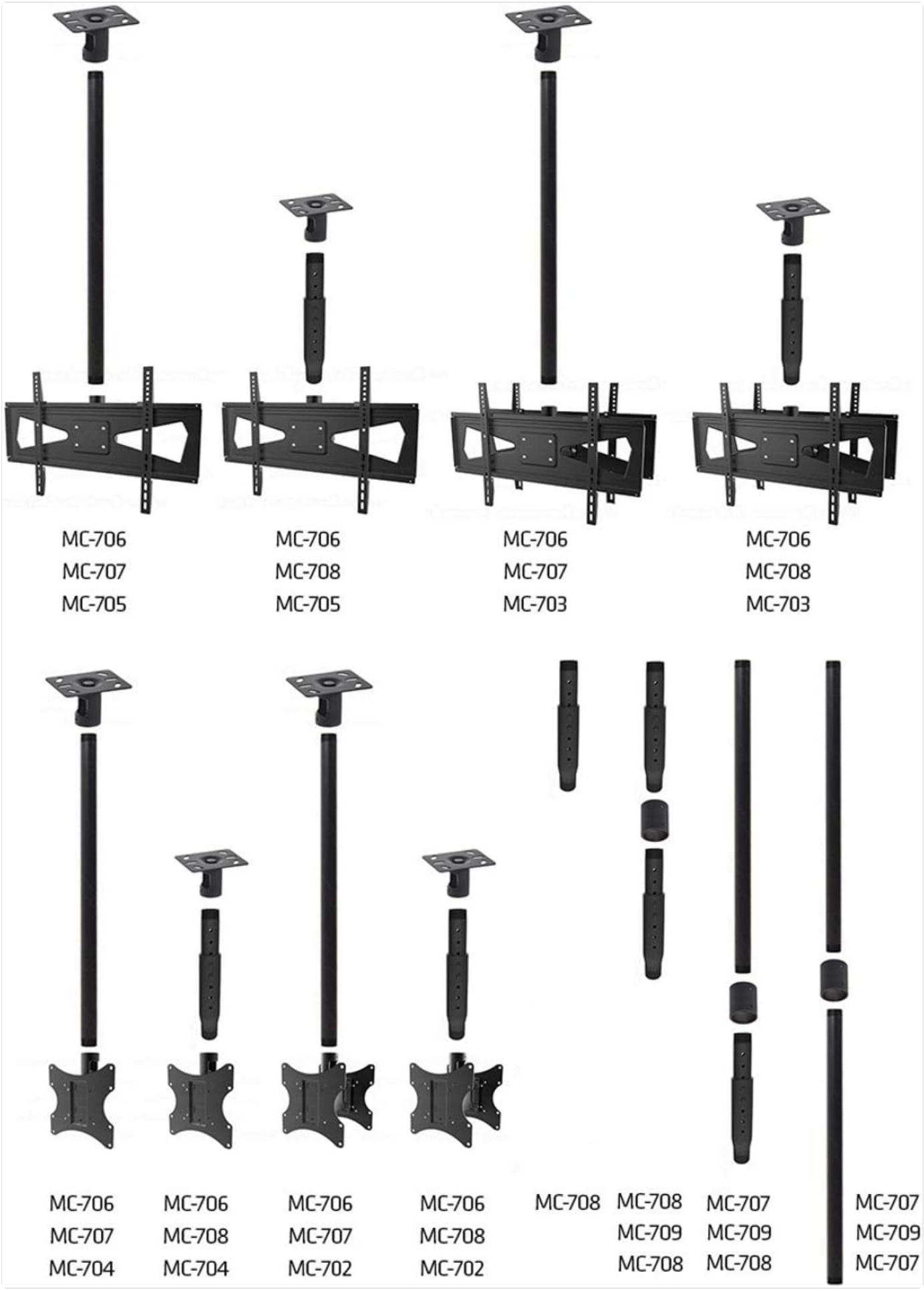

Figure 3.1: Included Mounting Accessories. This image displays the various screws, washers, and spacers provided for installation, organized in clear plastic bags labeled M-A through M-H.

4. Product Specifications

Feature	Specification
Model	MC-703
Suggested Screen Size	37" - 70"
Rated Load Capacity	50 kg (110 lbs)
VESA Compatibility	200x200, 400x200, 300x300, 400x400, 600x400
Max. Hole Pattern	670x404 mm
Tilt Range	+5° (up) to -12° (down)
Rotation	360° around the pole
Level Adjustment	±5°
Material	Aluminum, Steel
Surface Finish	Powder coated
Product Dimensions	214x704x440mm (Mounting Head only)
Item Weight	Approximately 21.6 pounds (9.8 kg)

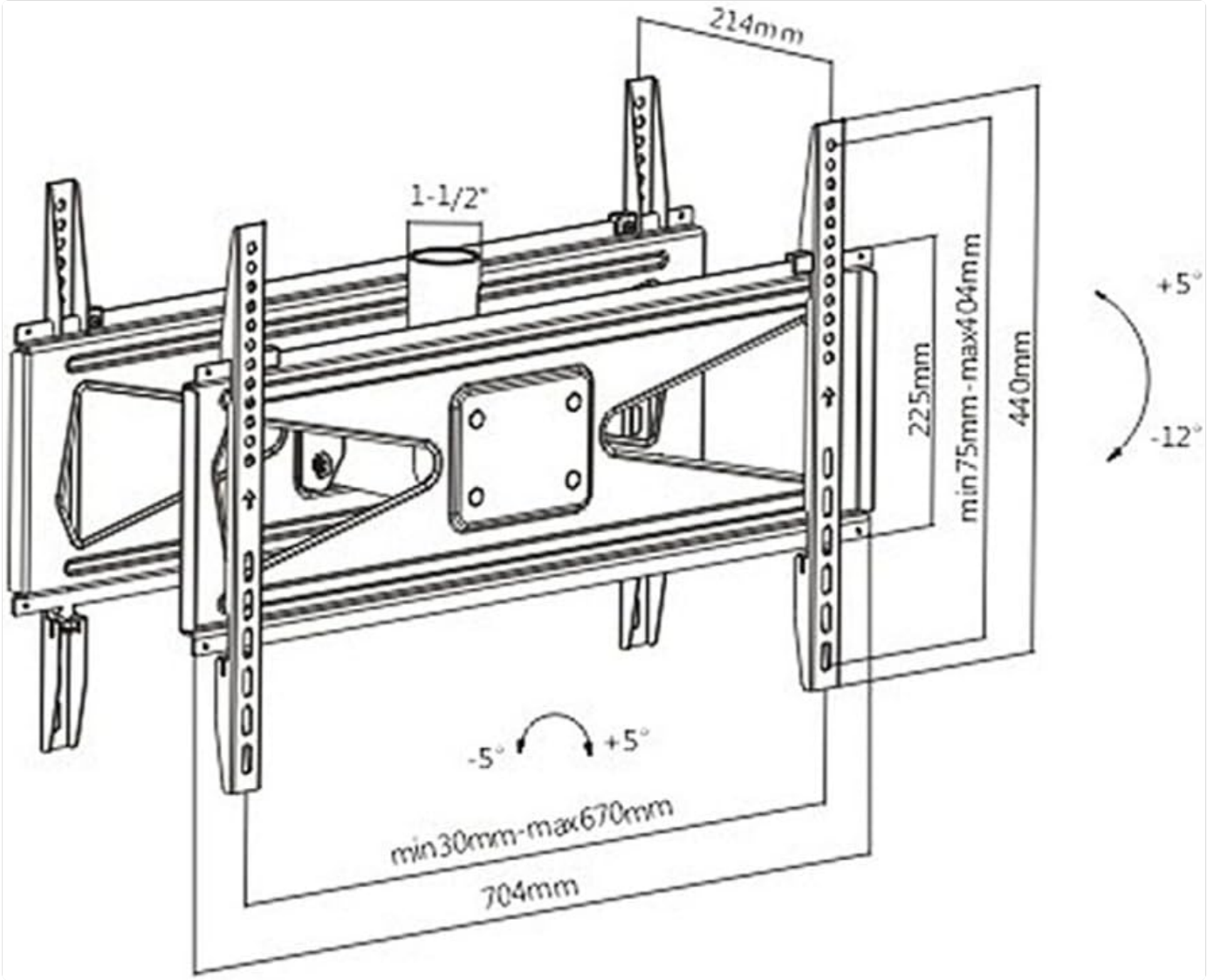

Figure 4.1: Dimensional Diagram. This diagram illustrates the key measurements of the MC-703 mounting head, including its width, height, VESA pattern range, and the available tilt angles.

5. Setup and Installation

The MC-703 is designed to be connected with a fixed or tilt ceiling plate and an extension tube (sold separately) for flat or bevel roof installations. This section outlines the general steps for attaching the mounting head to your displays and integrating it with a compatible ceiling mount system.

Figure 5.1: Maclean Brackets MC-703 Mounting Head. This image shows the main component of the mounting system, highlighting the dual VESA plates for back-to-back TV installation and the central connection point for a ceiling pole.

5.1. Attaching to Displays

1. **Prepare Displays:** Lay your TVs face down on a soft, clean surface to prevent scratches.
2. **Identify VESA Pattern:** Locate the mounting holes on the back of each TV. Measure the horizontal and vertical distance between these holes to determine the VESA pattern. Ensure it is compatible with the MC-703 (200x200, 400x200, 300x300, 400x400, 600x400).
3. **Select Hardware:** Choose the appropriate screws, washers, and spacers from the provided mounting accessories that fit your TV's VESA holes.
4. **Attach Mounting Plates:** Securely attach one side of the MC-703 mounting head to the back of each TV using the selected hardware. Ensure the plates are centered and level. Do not overtighten.

5.2. Integrating with Ceiling Mount System

1. **Prepare Ceiling Mount:** Ensure your ceiling plate and extension tube (not included with MC-703 head) are securely installed according to their respective instructions.
2. **Connect Mounting Head:** Carefully lift the assembled TV/MC-703 unit and connect the central pole attachment point of the MC-703 to the extension tube. Follow the specific instructions of your ceiling pole system for secure attachment.
3. **Cable Management:** Utilize the integrated cable management features to route display cables neatly through the mount and extension tube.

Figure 5.2: Example Installation. This image demonstrates a typical application of the MC-703 mount, showcasing two displays mounted back-to-back from a ceiling pole in a public environment, likely an airport or waiting area.

Figure 5.3: System Compatibility Overview. This diagram illustrates how the MC-703 mounting head integrates with various Maclean Brackets ceiling mount components, including different pole lengths and ceiling plates, to form complete display solutions.

6. Operating Instructions

The MC-703 mounting head offers flexibility for optimal viewing angles.

6.1. Tilt Adjustment

The mount allows for a tilt range of +5° (upwards) to -12° (downwards). To adjust the tilt, loosen the tilt adjustment bolts on the side of the mounting plates, set the desired angle, and then securely retighten the bolts. Refer to Figure 4.1 for visual guidance on tilt range.

6.2. Rotation Adjustment

The entire mounting head can rotate 360° around the central ceiling pole. To adjust the rotation, carefully loosen the connection point to the extension tube, rotate the displays to the desired orientation, and then securely tighten the

connection. Ensure cables are not strained during rotation.

6.3. Level Adjustment

A built-in level adjustment feature allows for fine-tuning of the display's horizontal alignment by ±5°. Consult the specific mechanism on your mount for this adjustment, typically involving small screws that allow for slight rotation of the VESA plate relative to the main frame. Use a spirit level to ensure perfect horizontal alignment.

7. Maintenance

- **Cleaning:** Clean the mount with a soft, dry cloth. Avoid abrasive cleaners or solvents that could damage the finish.
- **Periodic Inspection:** Regularly check all screws, bolts, and connections to ensure they remain tight and secure. Inspect for any signs of wear, corrosion, or damage.
- **Cable Management:** Ensure cables are not pinched or stressed. Re-route if necessary.

8. Troubleshooting

- **Displays are not level:** Use the built-in level adjustment feature to fine-tune the horizontal alignment. Ensure the ceiling plate and extension tube are also level.
- **Mount feels unstable:** Double-check all fasteners to ensure they are securely tightened. Verify that the ceiling structure can support the weight. Do not exceed the maximum load capacity.
- **Difficulty adjusting tilt/rotation:** Loosen the appropriate adjustment bolts slightly before attempting to move the displays. Retighten securely after adjustment.

9. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Maclean Brackets customer service. Keep your proof of purchase for warranty claims.

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