Fusion™ Below Speaker Shelf
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DEFINITIONS

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

MOUNTING SYSTEM: A MOUNTING SYSTEM is the primary product designed to mount the projector or display.

ACCESSORY: An ACCESSORY is any product designed by Chief® to complement the primary mounting system either by mounting any supporting components or enhancing the mounting capabilities of the primary mounting system.

COMPONENT: A COMPONENT is any secondary product designed to be used with the accessory, i.e. speakers, CPU’s, cameras, tablets, additional displays.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer’s responsibility to make sure all components are properly assembled and installed using the instructions provided.

WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer’s responsibility to make sure the weight mounted to the FCA830/840 bracket does not exceed 20 lbs (9 kg).

WARNING: Use of this accessory will decrease the weight capacity of the mount to which it is attached by the combined weight of the accessory and all components supported by this accessory! See Figure below for reference.

standard weight limit of mounting system - (weight of FCA830/840 bracket + shelf components)

20 lbs (9 kg)

WARNING: Use this accessory only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this accessory if it is damaged. Return the accessory to a service center for examination and repair.

WARNING: Do not use this product outdoors.

WARNING: RISK OF INJURY TO PERSONS! Do not use this accessory to support video equipment such as televisions or computer monitors.

--SAVE THESE INSTRUCTIONS--
DIMENSIONS - FCA830

**FUSION WALL MOUNT SETUP**

- **CENTER OF MOUNT**
  - 13.6-16.1" (340.5-408.6) MIN RANGE
  - 16.1-18.7" (406.9-475.0) INTERMEDIATE RANGE
  - 18.7-20.2" (475.6-513.1) MAX RANGE

- **OVERALL MAX**
  - 22.6" (574.8) [574.8]
  - 15.6" (396.6)
  - 25.0" (635.0)

- **OVERALL MIN**
  - 17.0" (431.8)
  - 5.5-14.9" (139.7-378.5)

- **FUSION CEILING/CART MOUNT SETUP**
  - 23.6" (599.9)
  - 20.6" (524.3)
  - 15.2" (386.6)

- **MIN**
  - 55.0" (1397.0)

- **MAX**
  - 17.0" (431.8)

**NOTES:**
- TYPICAL SINGLE DISPLAY MODELS HAVE INTERFACE DEpth 15" (381.0)
- TYPICAL DUAL DISPLAY MODELS HAVE INTERFACE DEPTH 13.7" (348.0)
- FCAS23 DUAL MONITOR INTERFACES ARE 14" DEEP (356.0)

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([Image of diagram showing dimensions and setup for FCA830/840])
**DIMENSIONS - FCA840**

**FUSION WALL MOUNT SETUP**

- OVERALL MIN: 20.7 [525.3]
- MIN RANGE: 18.6-20.5 [477.5-521.7]
- INTERMEDIATE RANGE: 20.5-30.5 [521.7-774.7]
- MAX RANGE: 30.5-31.9 [774.7-810.3]
- MAX: 33.7 [856.7]

- OVERALL MAX: 40.7 [1034.9]
- CENTER OF SPEAKER MOUNT: 17.0 [431.8]

**FUSION CEILING/CART MOUNT SETUP**

- INTERMEDIATE RANGE: 20.8-30.2 [528.3-767.1]
- CENTER OF MOUNT: 19.1-20.8 [485.1-528.3]

- OVERALL MIN: 21.0 [533.6]
- OVERALL MAX: 40.7 [1034.9]

**NOTES:**

- TYPICAL FUSION INTERFACES ARE 0.625 inches (15.9) DEEP
- TYPICAL SINGLE DISPLAY MODELS HAVE INTERFACES DEEPER 0.5 inches (12.7)
- TYPICAL DUAL DISPLAY MODELS HAVE INTERFACES DEEPER 0.5 (12.7) INCHES
- FCA823 DUAL MONITOR INTERFACES ARE 1.4 INCHES DEEP (35.6)
### LEGEND

<table>
<thead>
<tr>
<th><strong>Tighten Fastener</strong></th>
<th><strong>Loosen Fastener</strong></th>
<th><strong>Phillips Screwdriver</strong></th>
<th><strong>Open-Ended Wrench</strong></th>
<th><strong>By Hand</strong></th>
<th><strong>Hex-Head Wrench</strong></th>
<th><strong>Pencil Mark</strong></th>
<th><strong>Drill Hole</strong></th>
<th><strong>Adjust</strong></th>
<th><strong>Remove</strong></th>
<th><strong>Optional</strong></th>
<th><strong>Security Wrench</strong></th>
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<tr>
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<td>Aflojar elemento de fijación</td>
<td>Destornillador Phillips</td>
<td>Llave de boca</td>
<td>A mano</td>
<td>Llave de cabeza hexagonal</td>
<td>Marcar con lápiz</td>
<td>Perforar</td>
<td>Ajustar</td>
<td>Quitar</td>
<td>Opcional</td>
<td>Llave de seguridad</td>
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<tr>
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<td>Befestigungsteil lösen</td>
<td>Kreuzschlitzschraubendreher</td>
<td>Gabelschlüssel</td>
<td>Von Hand</td>
<td>Sechskantschlüssel</td>
<td>Stiftmarkierung</td>
<td>Bohrloch</td>
<td>Einstellen</td>
<td>Entfernen</td>
<td>Optional</td>
<td>Sicherheitsschlüssel</td>
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<td>Desapertar fixador</td>
<td>Chave de fendas Phillips</td>
<td>Chave de bocas</td>
<td>Com a mão</td>
<td>Chave de cabeça sextavada</td>
<td>Marcado con lápiz</td>
<td>Fazer furo</td>
<td>Ajustar</td>
<td>Remover</td>
<td>Opcional</td>
<td>Chave de segurança</td>
</tr>
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<td>Allentare il fissaggio</td>
<td>Cacciavite a stella</td>
<td>Chiave a punte aperte</td>
<td>A mano</td>
<td>Chiave esagonale</td>
<td>Segno a matita</td>
<td>Praticare un foro</td>
<td>Regolare</td>
<td>Rimuovere</td>
<td>Opzionale</td>
<td>Chiave di sicurezza</td>
</tr>
<tr>
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<td>Bevestiging losdraaien</td>
<td>Kruiskopschroevendraaier</td>
<td>Steeksleutel</td>
<td>Met de hand</td>
<td>Zeskantsleutel</td>
<td>Potloodmerkten</td>
<td>Gat boren</td>
<td>Afstellen</td>
<td>Verwijderen</td>
<td>Optie</td>
<td>Veiligheidssleutel</td>
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<tr>
<td>Serrez les fixations</td>
<td>Desserrez les fixations</td>
<td>Tournevis à pointe cruciforme</td>
<td>Clé à fourche</td>
<td>A la main</td>
<td>Clé à tête hexagonale</td>
<td>Marquage au crayon</td>
<td>Percez un trou</td>
<td>Ajuster</td>
<td>Retirez</td>
<td>En option</td>
<td>Clé de sécurité</td>
</tr>
</tbody>
</table>
TOOLS REQUIRED FOR INSTALLATION

- #2 screwdriver
- 3/8" wrench
- 5/32" (included)
- 1/8" (included)

PARTS

- A (1) [Upright bracket]
- B (1) [Main bracket]
- C (1) [Wall speaker interface - left]
- D (1) [Wall speaker interface - right]
- E (1) [Speaker interface - left]
- F (1) [Speaker interface - right]
- G (2) #10-24
- H (8) [Large washer]
- J (1) [Small washer]
- K (8) #10-24 x 1/4"
- L (2) 1/4-20 x 1/2"
- M (5) 1/4-20 x 1/4"
- N (1) 1/4-20 x 5/8"
- O (1) #10-32 x 3/8"
- P (4) #10-32 x 3/8"
- Q (4) 1/4-20 x 1/2"
- R (4) 1/4-20 x 7/16"
- S (2) #10-24 x 1 1/8"
- T (2) #10-24 x 1/2"
- U (4) 1/2"
- V (1) [Adapter plate]
- W (2) #10-24 x 1 1/8"
- X (2) [Shelf bracket]
- Y (1) [Center washer]
- Z (1) 5/32"
ASSEMBLY AND INSTALLATION

Attaching Speaker Bracket to Upright Bracket

1. Install two 1/4-20 x 1/2” button head cap screws (L) into lowest holes on upright bracket (A). (See Figure 1) or (See Figure 2)

IMPORTANT ! : Refer to Figure 3 if installing to a wall mount or Figure 4 if installing to a cart/ceiling mount.

2. Hang speaker bracket (BB) onto two screws installed in Step 1. (See Figure 1) or (See Figure 2)

3. Use one 1/4-20 x 1/4” button head cap screw (M) to secure upright bracket (A) to speaker bracket (BB). (See Figure 1) or (See Figure 2)

4. Tighten all three screws to ensure upright bracket (A) is securely attached to speaker bracket (BB).

Attaching Speaker Bracket to Wall Mount

NOTE: If attaching to cart or ceiling mount, proceed to Attach Speaker Bracket to Cart/Ceiling Section.

1. Use two 1/4-20 x 1/4” button head cap screws (M) and two large washers (H) to secure shelf bracket (X) to main bracket (B). (See Figure 3)

CAUTION: Slide bracket with caution so that the bracket does not scratch or damage the wall!

2. Slide main bracket (B) behind wall mount rails until shelf bracket (X) rests on top of wall mount rail. (See Figure 3)

3. Slide second shelf bracket (X) underneath lower rail on wall mount, lining up holes on shelf bracket (X) to main bracket (B). (See Figure 4)

4. Use two 1/4-20 x 1/4” button head cap screws (M) and two large washers (H) to secure shelf bracket (X) to main bracket (B). (See Figure 4)
NOTE: Refer to Table 1 and dimension drawings on pages 3-4 to determine the extension level based on extension distance from mount center.

**Table 1: Wall Mounting**

<table>
<thead>
<tr>
<th>Extension distance from center of mount (in.)</th>
<th>Extension distance from center of mount (in.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FCA830</td>
<td>FCA840</td>
<td>Minimum</td>
</tr>
<tr>
<td>13.8-16.1</td>
<td>18.8-20.5</td>
<td>Intermediate</td>
</tr>
<tr>
<td>16.1-18.7</td>
<td>20.5-30.5</td>
<td>Maximum</td>
</tr>
<tr>
<td>18.7-20.2</td>
<td>30.5-31.9</td>
<td></td>
</tr>
</tbody>
</table>

5. (For **maximum extension** ) Use #10-32 x 3/8” button head cap screw (P) and small washer (J) to secure adapter plate (V) to main bracket (B). (See Figure 5)

6. (For **maximum extension** ) Use two #10-24 lock nuts (G) to secure upright bracket (A) to main bracket (B) and adapter plate (V). (See Figure 5)

7. (For **minimum/intermediate extension**) Use two #10-24 lock nuts (G) to secure upright bracket (A) to main bracket (B) and adapter plate (V). (See Figure 6)

**NOTE:** Minimum configuration is shown below. Several intermediate configurations are possible depending on which holes are used.

8. (For **minimum/intermediate extension**) Use 1/4-20 x 5/8” hex head flange bolt (N) and center washer (Y) to secure upright bracket (A) to main bracket (B). (See Figure 6)

**Attaching Speaker Bracket to Cart/Ceiling Mount**

**IMPORTANT ! :** If installing to a 2x1 display cart using the FCA623 accessory, proceed to “Installing to FCA623 Accessory” Section (Step 6).

1. Use two 1/4-20 x 1/4” button head cap screws (M) and two large washers (H) to secure shelf bracket (X) to main bracket (B). (See Figure 7)

2. Slide main bracket (B) onto front of cart/ceiling mount head assembly until shelf bracket (X) rests on top of head assembly. (See Figure 7)
3. Slide second shelf bracket (X) underneath head assembly, lining up holes on shelf bracket (X) to holes on main bracket (B). (See Figure 8)

4. Use two 1/4-20 x 1/4” button head cap screws (M) and two large washers (H) to secure shelf bracket (X) to main bracket (B). (See Figure 8)

5. Proceed to Step 11 unless installing to FCA623 accessory.

Installing to FCA623 Accessory

IMPORTANT ! : Steps 6-10 only apply if installing to FCA623 accessory.

6. Use two 1/4-20 x 7/16” button head cap screws (R), two large washers (H) and two 1/2” spacers (U) to secure shelf bracket (X) to main bracket (B). (See Figure 9)

7. Slide main bracket (B) onto front of cart/ceiling mount head assembly until shelf bracket (X) rests on top of head assembly. (See Figure 9)

8. Slide second shelf bracket (X) underneath head assembly, lining up holes on shelf bracket (X) to holes on main bracket (B). (See Figure 10)

9. Slide two 1/2” spacers (U) in between shelf bracket (X) and main bracket (B). (See Figure 10)

10. Use two 1/4-20 x 7/16” button head cap screws (R) and two large washers (H) to secure shelf bracket (X) to main bracket (B). (See Figure 10)

11. (For maximum/intermediate extension) Use #10-32 x 3/8” button head cap screw (P) and small washer (J) to secure adapter plate (V) to main bracket (B). (See Figure 11)

NOTE: Refer to Table 2 and dimension drawings on pages 3-4 to determine the extension level based on extension distance from mount center.

<table>
<thead>
<tr>
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<tr>
<td>13.4-15.3</td>
<td>19.1-20.8</td>
</tr>
<tr>
<td>15.3-19.2</td>
<td>20.8-30.2</td>
</tr>
<tr>
<td>19.2-21.8</td>
<td>30.2-33.5</td>
</tr>
</tbody>
</table>

NOTE: Maximum configuration is shown below. Several intermediate configurations are possible depending on which holes are used.

12. (For maximum/intermediate extension) Use two #10-24 lock nuts (G) to secure upright bracket (A) to main bracket (B) and adapter plate (V). (See Figure 11)

Table 2: Cart/Ceiling Mount
13. (For minimum extension) Use 1/4-20 x 5/8" hex head flange bolt (N) and center washer (Y) to secure upright bracket (A) to main bracket (B). (See Figure 12)

![Figure 12](image)

**Installing Speaker (not included)**

⚠️ **WARNING:** Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer’s responsibility to make sure the weight mounted on the FCA830/840 bracket does not exceed 20 lbs (9 kg).

⚠️ **WARNING:** USING SCREWS OF IMPROPER SIZE MAY DAMAGE THE SPEAKER. Properly sized screws will easily and completely thread into speaker mounting holes.

**NOTE:** If the screws provided with this accessory do not fit the specific speaker being installed, be sure to use correctly sized screws (not included).

**NOTE:** If installing to speaker with teardrop openings at attachment points, proceed to “Optional Speaker Installation” Section.

**Installing to Cart/Ceiling Mounts**

1. Attach left speaker interface (E) to back of speaker (left side) using two 1/4-20 x 1/2" Phillips pan head screws (Q) with two large washers (H). (See Figure 13)

   ![Figure 13](image)

   **NOTE:** Ensure that upper flange of interface brackets are at top of speaker. (See Figure 13)

2. Repeat Steps 1 with right speaker interface (F). (See Figure 13)

3. Install two speaker interfaces (E and F) to speaker bracket (BB) by sliding upper flanges of interfaces into long slots on speaker bracket and then pushing interfaces into position. (See Figure 14)

4. Use two #10-24 x 1 1/8" button head cap screws (W) to secure interfaces to speaker bracket at desired speaker position. (See Figure 14)

![Figure 14](image)
**Installation to Wall Mount**

1. Attach left wall speaker interface (C) to back of speaker (left side) using two 1/4-20 x 1/2" Phillips pan head screws (Q) with two large washers (H). (See Figure 15)

2. Repeat Steps 1 with right wall speaker interface (D). (See Figure 15)

3. Use eight #10-24 x 1/4" button head cap screws (K) to secure two wall speaker interfaces (C and D) to two speaker interfaces (E and F). (See Figure 16)

4. Install two speaker interfaces (E and F) to speaker bracket (BB) by sliding upper flanges of interfaces into long slots on speaker bracket and then pushing interfaces into position. (See Figure 17)

5. Use two #10-24 x 1 1/8" button head cap screws (W) to secure interfaces to speaker bracket at desired speaker position. (See Figure 17)

**OPTIONAL SPEAKER INSTALLATION**

**Speaker With Teardrop Opening At Attachment Points**

1. Insert two 10-24 x 1/2" Phillips pan head screws (T) into speaker interfaces (E and F) [Cart/Ceiling Mounting] or wall speaker interfaces (C and D) [Wall Mounting] and hang speaker on screws. (See Figure 18)

**Cart/Ceiling Mounting**

1. Insert two 10-24 x 1/2" Phillips pan head screws (T) into speaker interfaces (E and F) [Cart/Ceiling Mounting] or wall speaker interfaces (C and D) [Wall Mounting] and hang speaker on screws. (See Figure 18)

**Wall Mounting**

1. Insert two 10-24 x 1/2" Phillips pan head screws (T) into speaker interfaces (E and F) [Cart/Ceiling Mounting] or wall speaker interfaces (C and D) [Wall Mounting] and hang speaker on screws. (See Figure 18)

**Height Adjustment**

1. Loosen hardware used to attach main bracket (B) to upright bracket (A). (See Figure 19)

2. Adjust shelf height as desired using intermediate holes as needed. (See Figure 19)

3. Tighten hardware used to attached main bracket (B) to upright bracket (A). (See Figure 19)