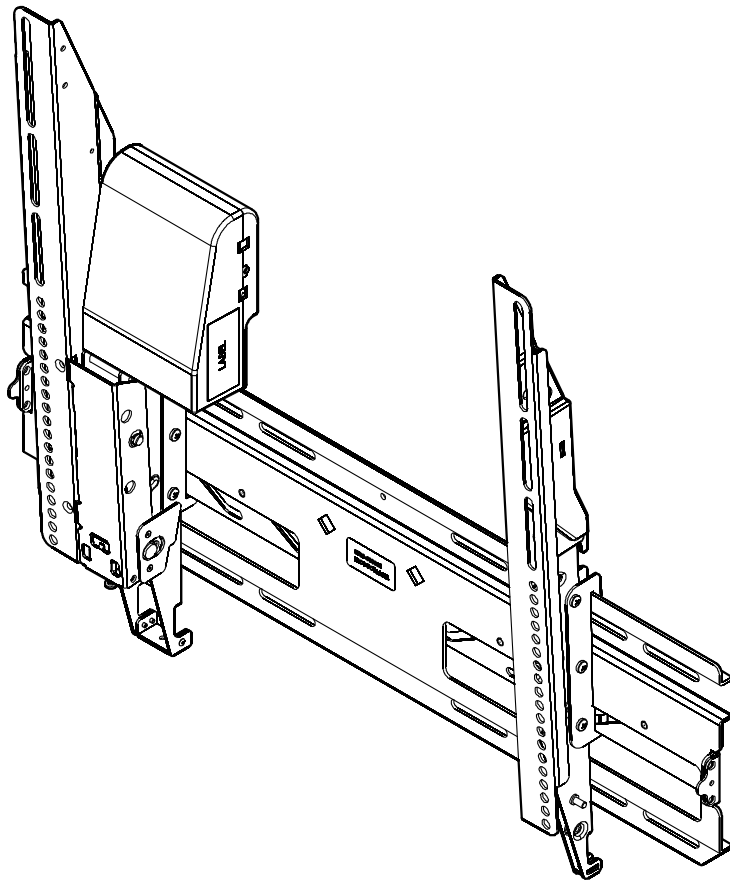


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# INSTALLATION INSTRUCTIONS

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## Automated Tilt Mounting System

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## DISCLAIMER

Milestone AV Technologies, and its affiliated corporations and subsidiaries (collectively, "Milestone"), intend to make this manual accurate and complete. However, Milestone makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Milestone makes no representation of warranty, expressed or implied, regarding the information contained herein. Milestone assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

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## IMPORTANT SAFETY INSTRUCTIONS



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



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



**WARNING:** FAILURE TO READ AND FOLLOW THE FOLLOWING 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.

**IMPORTANT ! :** Installation and maintenance of this product must be completed by a qualified service technician.

When using an electrical mounting system, basic precautions should always be followed, including the following:

**READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!!!!**



**DANGER:** TO REDUCE THE RISK OF ELECTRIC SHOCK:

1. Always unplug this mounting system from the electrical outlet before cleaning.



**WARNING:** TO REDUCE THE RISK OF BURNS, FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

- Unplug from outlet before putting on or taking off parts.
- Use this mounting system only for its intended use as described in these instructions. Do NOT use attachments not recommended by the manufacturer.
- Never operate this mounting system if it has a damaged cord or plug. If it is not working properly, return the mounting system to a service center for examination and repair.
- Keep the cord away from heated surfaces.
- Never operate the mounting system with the air openings blocked. Keep the air openings free of lint, hair, and the like.
- Never drop or insert any object into any opening.
- Do not use outdoors unless marked for outdoor use.
- Route cords and cables as shown in the installation instructions.
- To disconnect, turn all controls to the off position, then remove plug from outlet.



**WARNING:** RISK OF ELECTRIC SHOCK!  
Connect this mounting system to a properly grounded outlet only. See Grounding Instructions.



**CAUTION:** Changes or modifications to this unit not expressly approved by the manufacturer can void the units FCC compliance rating and make the unit illegal to operate.



**WARNING:** Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component. The wall to which the mount is being attached may have a maximum drywall thickness of 1/2" (12.7mm).

**NOTE:** The CM8 weighs 21.5 lbs (9.8 kg).



**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 combined weight of all components attached to the CM8 does not exceed 150 lbs (68 kg), with a maximum display size of 61 in. (154.9cm). Use with products heavier than the maximum weight indicated may result in collapse of the mount and its accessories causing possible injury.

**NOTE:** This system has no user serviceable parts.

**--SAVE THESE INSTRUCTIONS--**

**LEGEND**

	Tighten Fastener	
	Apretar elemento de fijación	Stram fastspændingsbeslag
	Befestigungsteil festziehen	Skruva åt fäste
	Apertar fixador	Kiristä kiinnike
	Serrare il fissaggio	Dokrećić element mocujący
	Bevestiging vastdraaien	Σφίξιμο Συνδέσμου
	Serrez les fixations	Bağlantıyı Sıkıştırın
	Сожмите Застежку	Rögzítő meghúzás

	Pencil Mark	
	Marcar con lápiz	Blyantmærke
	Stiftmarkierung	Pennmarkering
	Marcar com lápis	Piirretty merkki
	Segno a matita	Oznaczenie ołówkiem
	Potloodmerkteken	Σημάδι με μολύβι
	Marquage au crayon	Kalem İşareti
	Марка Карандаша	Ceruzajelölés

	Loosen Fastener	
	Aflojar elemento de fijación	Løsgør fastspændingsbeslag
	Befestigungsteil lösen	Lossa fäste
	Desapertar fixador	Irrota kiinnike
	Allentare il fissaggio	Poluzować element mocujący
	Bevestiging losdraaien	Χαλάρωση Συνδέσμου
	Desserrez les fixations	Bağlantıyı Gevşetin
	Ослабьте Застежку	Rögzítő kilazítás

	Drill Hole	
	Perforar	Borehul
	Bohrloch	Borra hål
	Fazer furo	Porausreikä
	Praticare un foro	Otwór wiercony
	Gat boren	Διάτρηση οπής
	Percez un trou	Matkap Deligi
	Отверстие Тренировки	Lyukfúrás

	Phillips Screwdriver	
	Destornillador Phillips	Stjerneskuetrækker
	Kreuzschlitzschraubendreher	Krysskruvmejsel
	Chave de fendas Phillips	Ristipääruuviavain
	Cacciavite a stella	Śrubokręt krzyżakowy
	Kruiskopschroevendraaier	Κατσαβίδι Phillips
	Tournevis à pointe cruciforme	Phillips Tornavida
	Отвертка	Csillagfejű csavarhúzó

	Adjust	
	Ajustar	Juster
	Einstellen	Justera
	Ajustar	Säätää
	Regolare	Wyregulować
	Afstellen	Προσαρμογή
	Ajuster	Ayar
	Приспособьтесь	Beállítás

	Open-Ended Wrench	
	Llave de boca	Åben skruenøgle
	Gabelschlüssel	Fast nyckel
	Chave de bocas	Kiintoavain
	Chiave a punte aperte	Klucz płaski
	Steeksleutel	Κλειδί με ανοιχτό άκρο
	Clé à fourche	Açık Uçlu Anahtar
	Открытый Рывок	Villáskulcs

	Hex-Head Wrench	
	Llave de cabeza hexagonal	Sekskantet skruenøgle
	Sechskantschlüssel	Insexnyckel
	Chave de cabeça sextavada	Kuusiokoloavain
	Chiave esagonale	Klucz z 6bema sześciokątym
	Zeskantsleutel	Κλειδί εξαγωνικής κεφαλής
	Clé à tête hexagonale	Altigen Kafalı (Allen) Anahtar
	Главный ведемой Рывок	Hatszögfejű kulcs

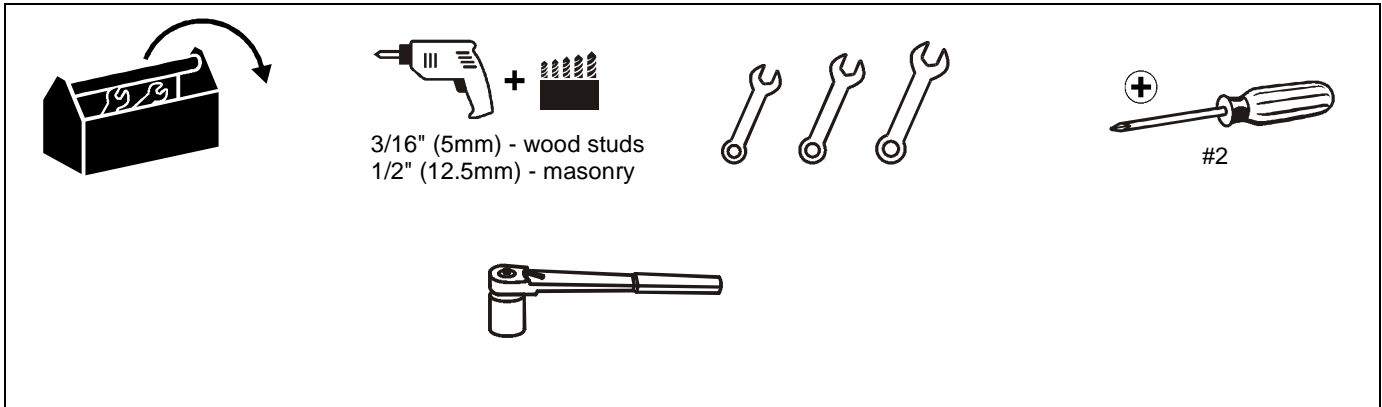
	By Hand	
	A mano	Med hånden
	Von Hand	För hand
	Com a mão	Käsin
	A mano	Ręcznie
	Met de hand	Με το χέρι
	À la main	El İle
	Вручную	Kézzel

	Socket Wrench	
	Llave de cubo	Hylseskruenøgle
	Steckschlüssel	Hylsnyckel
	Chave de caixa	Hylsyavain
	Chiave a brugola	Klucz nasadowy
	Dopsleutel	Σωληνωτό Κλειδί
	Clé à douilles	Lokma Anahtar
	Торцовый ключ	Csőkulcs

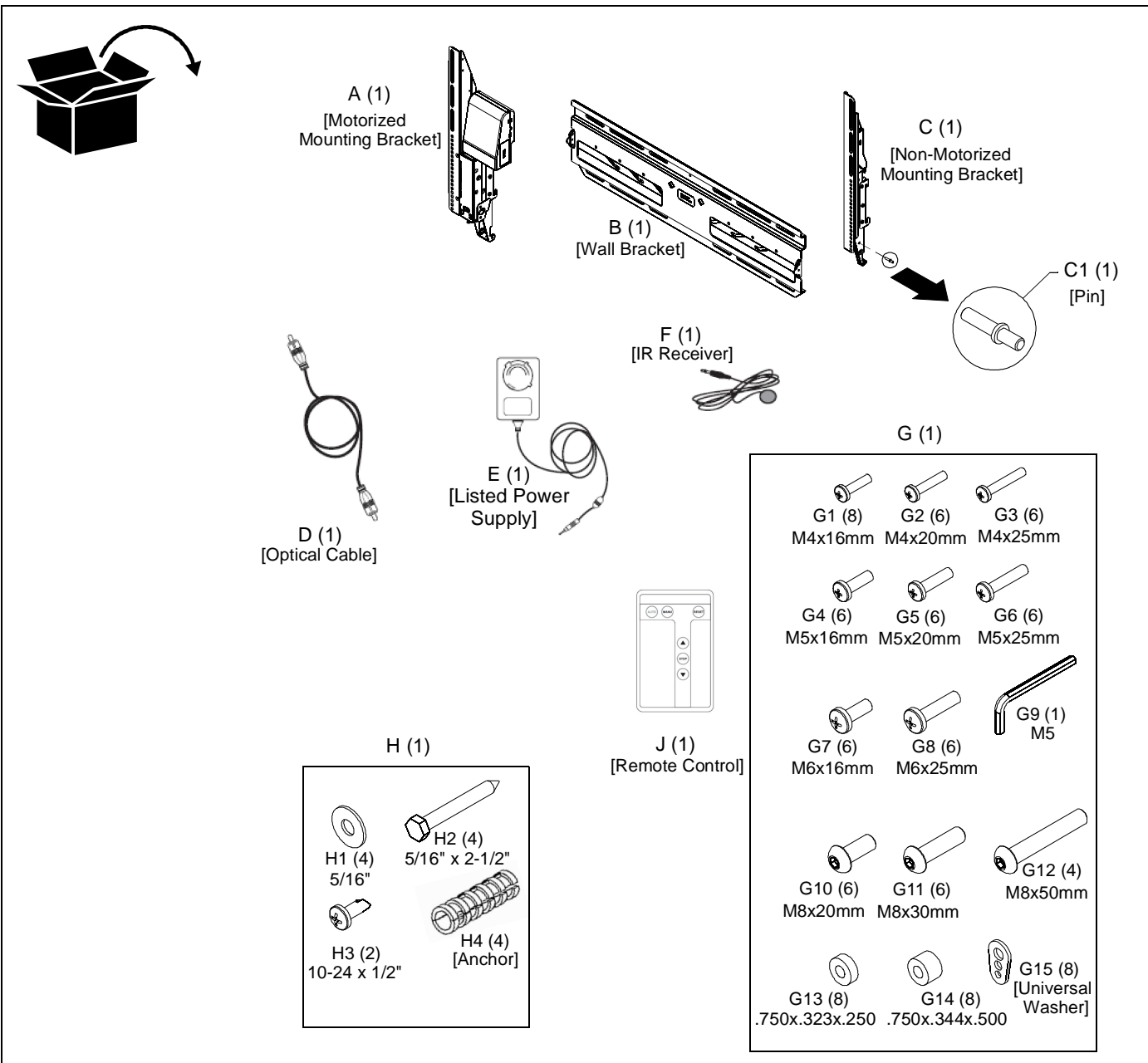
	Hammer	
	Martillo	Hammer
	Hammer	Hammare
	Martelo	Vasara
	Martello	Młotek
	Hamer	Σφυρί
	Marteau	Çekiç
	Молоток	Kalapács

	Measure	
	Medir	Mål
	Messen	Mät
	Medir	Mitta
	Misurare	Przymiar
	Meten	Μέτρο
	Mesurer	Ölçüm
	Мера	Mérték

**TOOLS REQUIRED FOR INSTALLATION**

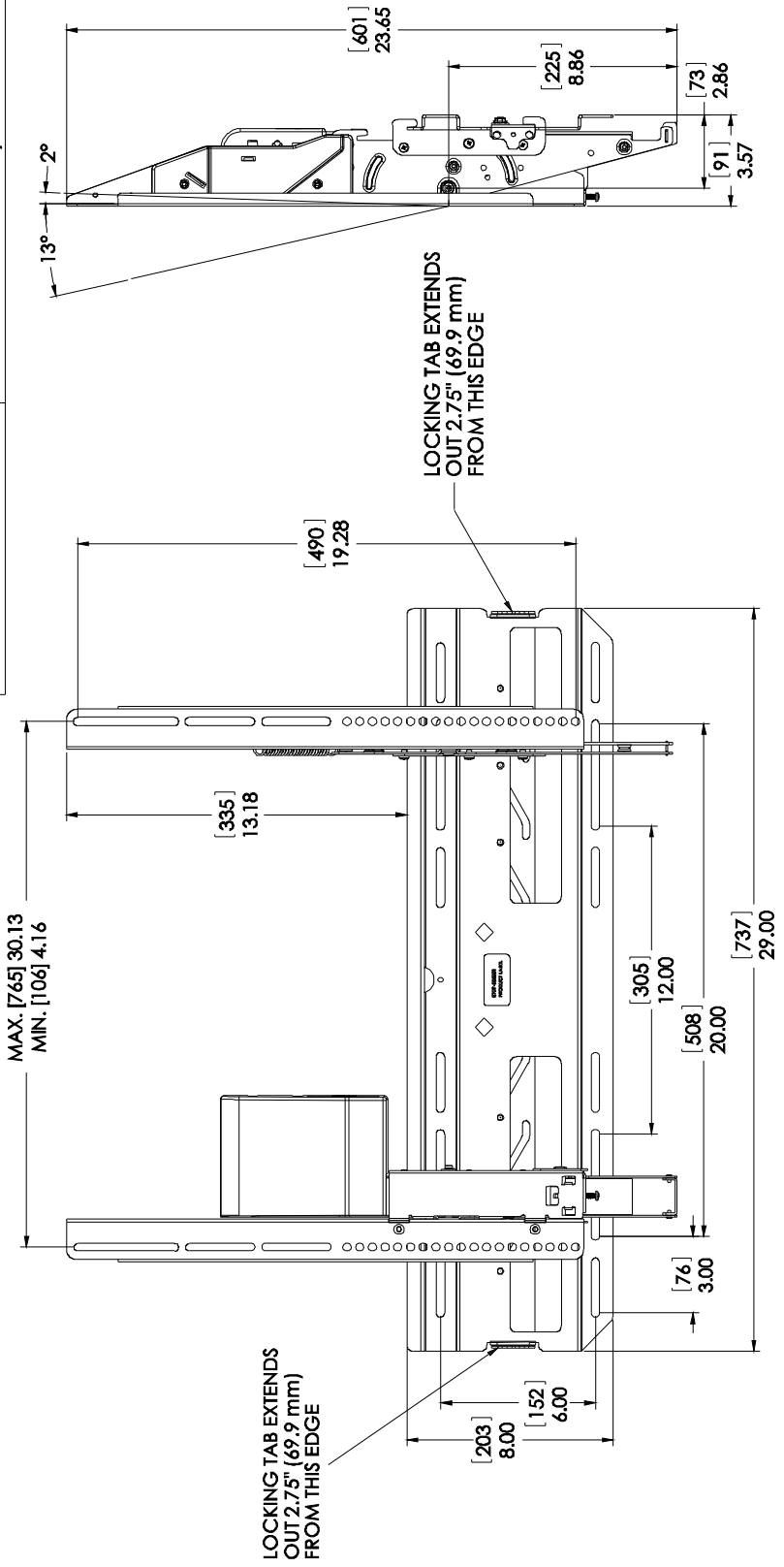


**PARTS**



**DIMENSIONS**

<b>PRODUCT FEATURES</b>	
<b>WEIGHT CAPACITY</b>	150 LBS (68 Kg)
<b>MOUNTING PATTERN</b>	WIDTH - 4.14" TO 30.13" (106 mm TO 765 mm) HEIGHT - UP TO 19.28" (490 mm)
<b>TILT</b>	-13° / +2°



ALL MEASUREMENTS ARE IN THE FOLLOWING FORMAT:  
[MILLIMETERS]  
INCHES

1

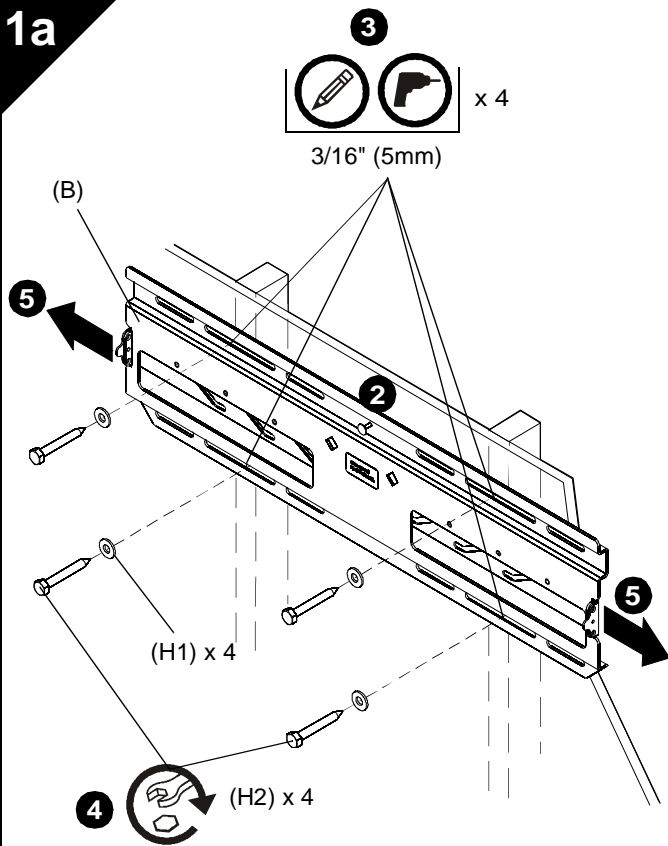
**INSTALLATION**



**WARNING:** IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installers responsibility to make certain the structure to which the mount is being attached is capable of supporting five times the weight of the CM8 and all attached equipment not to exceed 150 lbs (68 kg).

**NOTE:** Instructions are included for installing the CM8 in a wood stud wall or a solid concrete wall application. Proceed to the appropriate section for further information.

1a

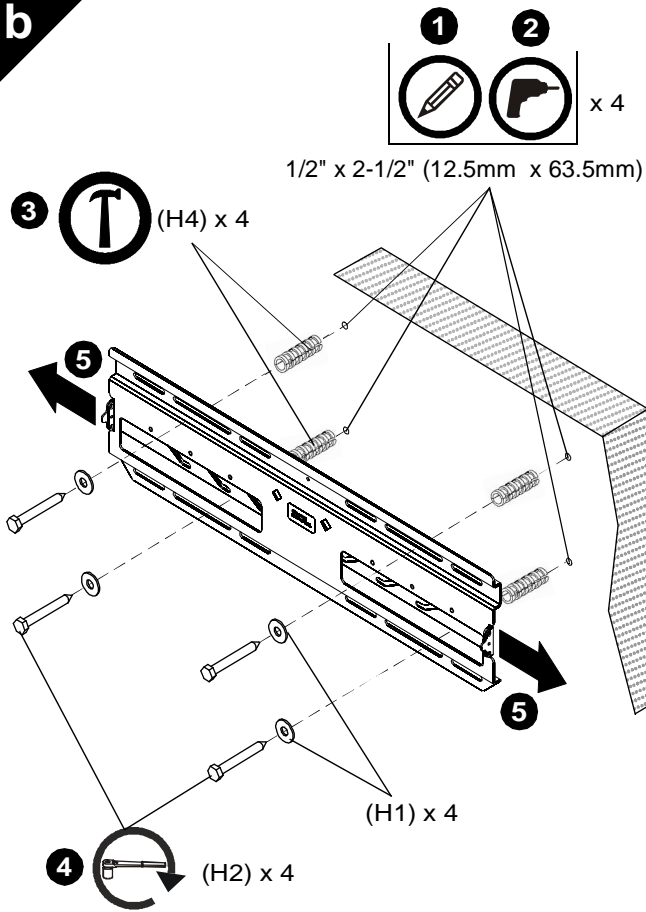


**Wood Stud Installation**

**NOTE:** Mount the wall bracket to at least two 2" x 4" wood studs spaced a minimum of 12" (30.4 cm) to a maximum of 24" (61.0 cm) apart. The wood studs may be covered with wall board having a maximum thickness of 1/2".

1. Using a stud finder, locate and mark the two studs to which the CM8 will be installed.
2. Using a nail through the center hole of the wall bracket (B), temporarily hang the wall bracket on the wall at the install location.
3. Level wall bracket (B), mark and drill four 3/16" (5mm) mounting holes.
4. Fasten wall bracket to wall studs using four 5/16 x 2-1/2" hex head lag screws (H2) and four 5/16" flat washers (H1).
5. Slide latches to outside.

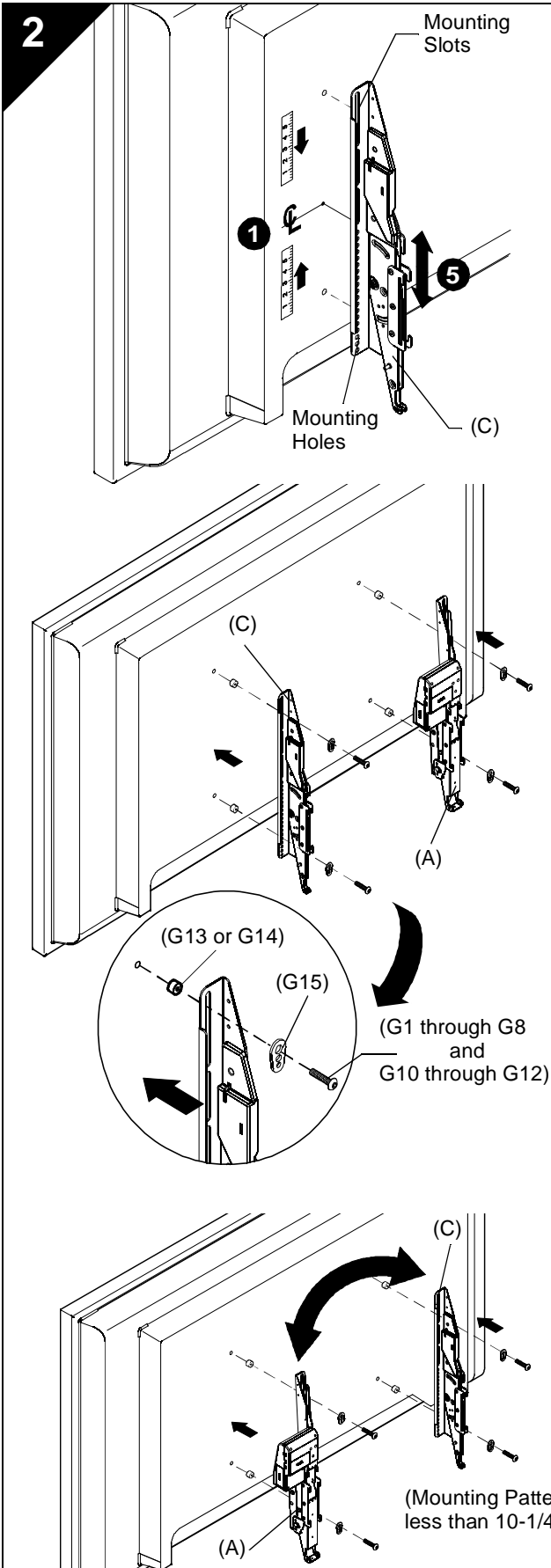
**1b**



**Concrete Installation**

**NOTE:** Mount the wall bracket in four spots, spaced a minimum horizontal distance of 12" (30.5cm).

1. Level wall bracket (B) and mark locations of pilot holes.
2. Drill four 1/2" x 2-1/2" (12.5mm x 63.5mm) pilot holes into mounting surface.
3. Install four anchors (H4) into pilot holes, inserting end that opens slightly first. Tap with hammer until flush with concrete surface.
4. Using a socket wrench, install four 5/16" x 2-1/2" hex head lag screws (H2) and four 5/16" flat washers (H1).
5. Slide latches to outside.



**Attaching Brackets to Display**



**WARNING:** IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! DO NOT substitute hardware. Only use hardware provided or specified by manufacturer.

**NOTE:** Locate Digital Optical Audio Output on back of display (if available).

1. Determine and mark the vertical center position between the left side upper and lower mounting holes in display.
2. Determine and mark the vertical center position between the right side upper and lower mounting holes in display.
3. Orient non-motorized mounting bracket (C) so that mounting holes are on bottom and mounting slots are on top.
4. Align mounting holes and slots in bracket (C) with upper and lower mounting holes on left side of display.

**NOTE:** For mounting pattern widths less than 10-1/4", reverse location of brackets (A) and (C).

5. Adjust mounting bracket (C) position until mark made in Step 1 aligns with center mark in bracket (C)

**NOTE:** Vertical center of mounting bracket is at bottom of third slot.

6. Secure bracket (C) to display using the screws provided (G1 through G8 and G10 through G12).

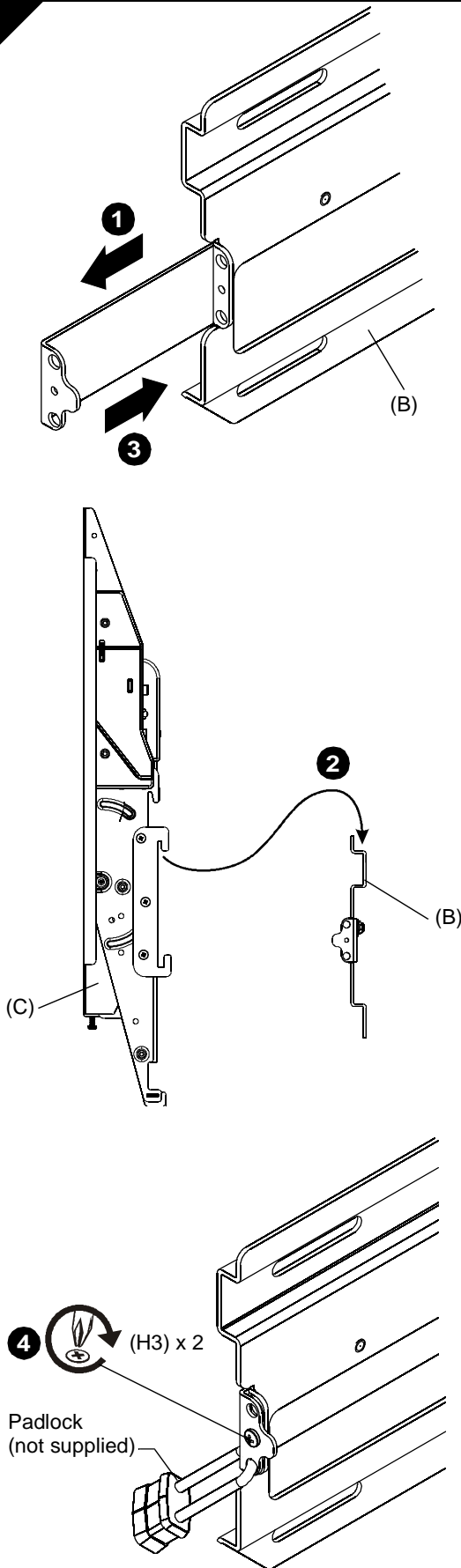
**NOTE:** Also use universal washers (G15) if using screws (G1 through G8).

**NOTE:** If the display has a recessed mounting surface, protrusions or a power box, a spacer (G13 or G14) and longer mounting hardware must be placed between the display and mounting bracket (C).

7. Repeat Steps 3 through 6 for motorized mounting bracket (A) using the same hole locations to align brackets horizontally.



3



### Installing Display

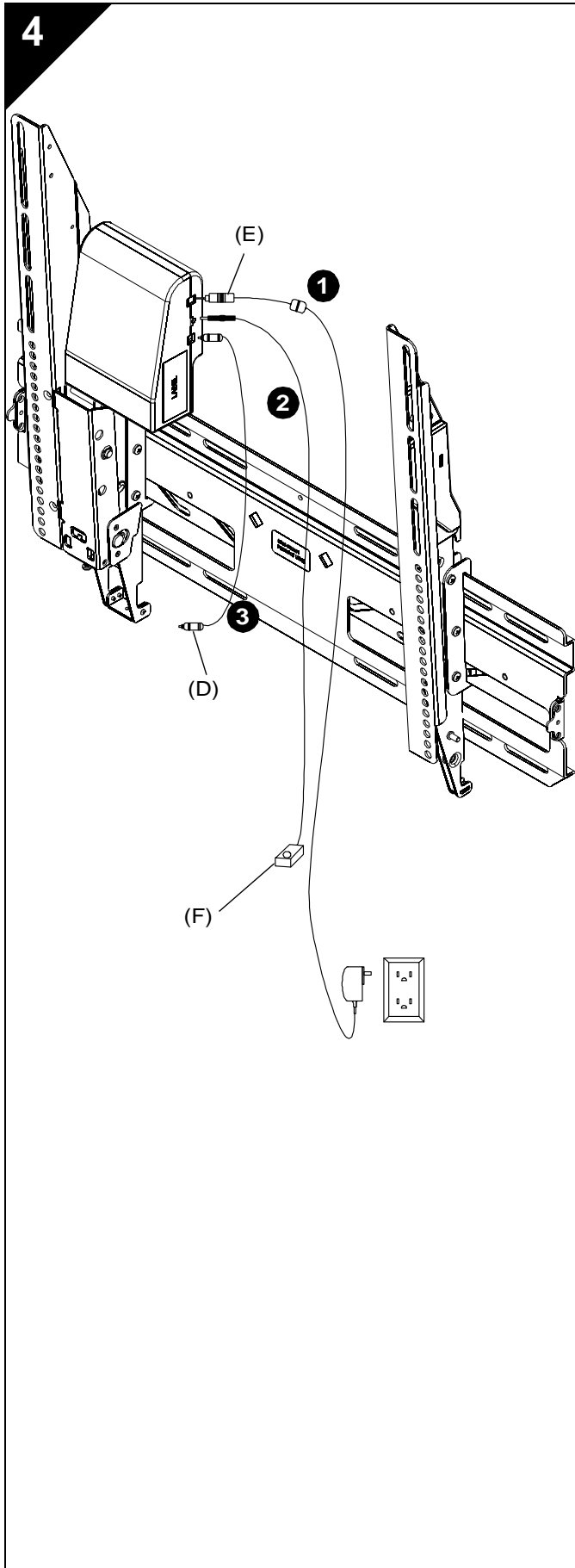


**WARNING:** IMPROPER INSTALLATION CAN LEAD TO DISPLAY FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Ensure mounting bracket hooks are completely engaged over wall bracket.



**CAUTION:** DISPLAY MAY WEIGH IN EXCESS OF 40 LBS! Always use two people and proper lifting techniques when installing or positioning display on wall bracket.

1. Slide wall bracket (B) side latches out.
2. Place display on wall bracket (B) by hooking the mounting bracket hooks over the top of the wall bracket.
3. Secure display by sliding side latches in.
4. (Optional): For additional security, install two 10-24 x 1/2" Phillips head self-tapping screws (H3) and/or padlocks (not provided) into the slide latches.



### Connecting Electrical Components

Electrical Rating: DC 12V; 0.4A



**CAUTION:** DAMAGE TO CABLES POSSIBLE! Do not run cables or wires near the moving parts of this mount.

1. Plug the Listed power supply (E) [provided with the mount] into the CM8 control box and the home's electrical socket.
2. Plug the IR receiver (F) into the CM8 control box, and attach the head to bottom side of display.

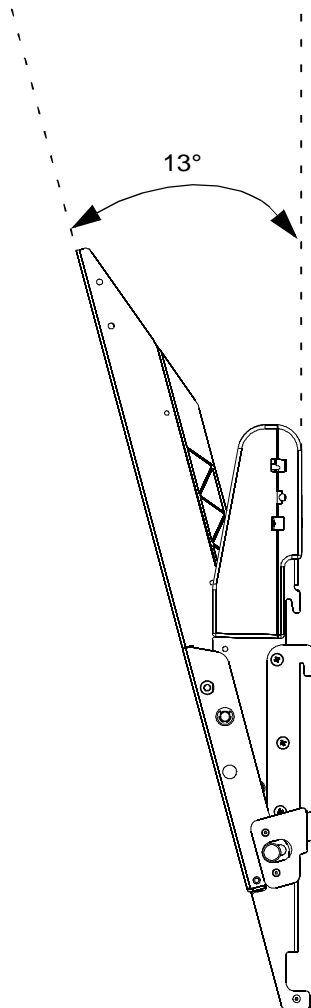
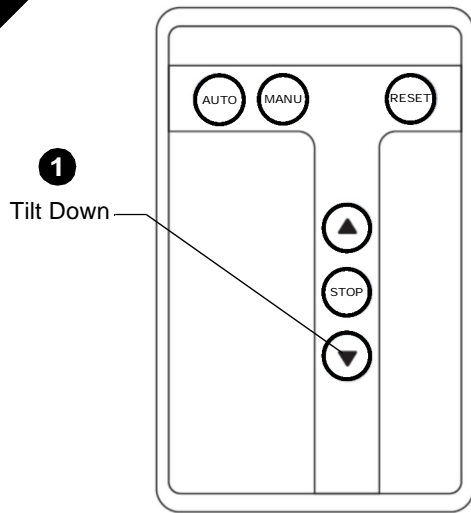
**NOTE:** The CM8 detects whether the display is ON or OFF by detecting whether the LED light (red) from the Digital Optical Audio Output is ON or OFF. In Auto-Mode the CM8 tilts the display down when the LED light is ON, and returns the display to the upright position when the LED light is OFF.

**NOTE:** Use an optical splitter (not provided) to send signals to the control box if the Digital Optical Audio Output of the display is being used to drive speakers.

3. (Optional) Plug the optical cable (D) into the CM8 control box and the Digital Optical Audio Output on the back of the display.

**NOTE:** IR receiver (F) must be visible from front of display.

5



Adjusting Tilt

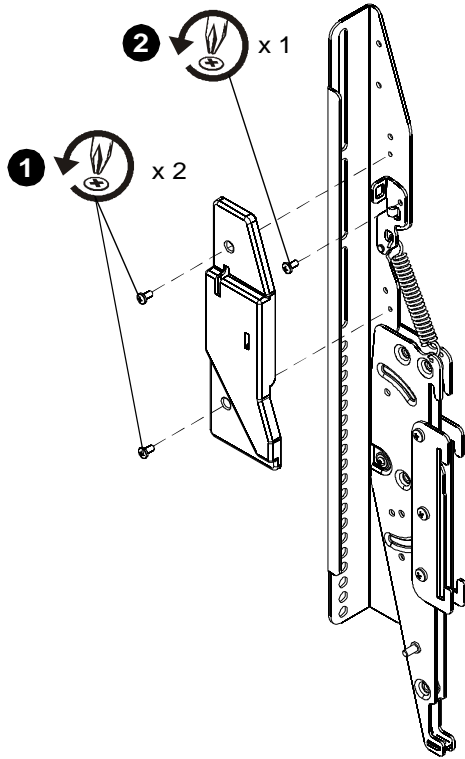
**NOTE:** Remove plastic tab from remote control (J) before use.

1. Use the down arrow button on the remote control (J) to fully tilt down the display.

**NOTE:** The CM8 is designed to tilt the display down a maximum of 13°. The maximum tilt angle may vary depending on the application.

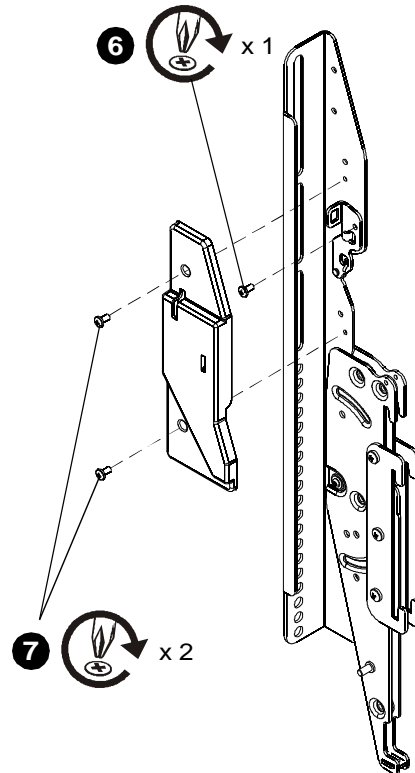
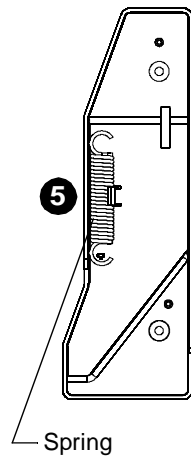
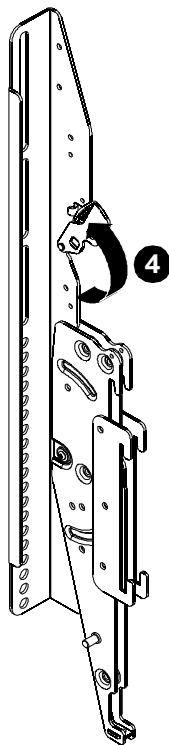
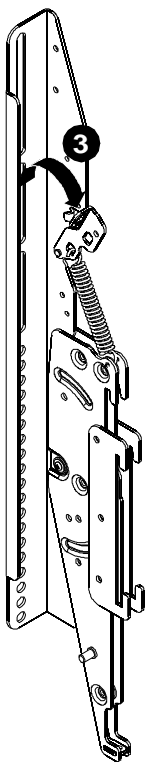
2. Visually check to see if the display tilts down fully.
  - If the display does NOT tilt down fully, proceed to Section 6.
  - If the display DOES tilt down fully, proceed to Section 7.

6

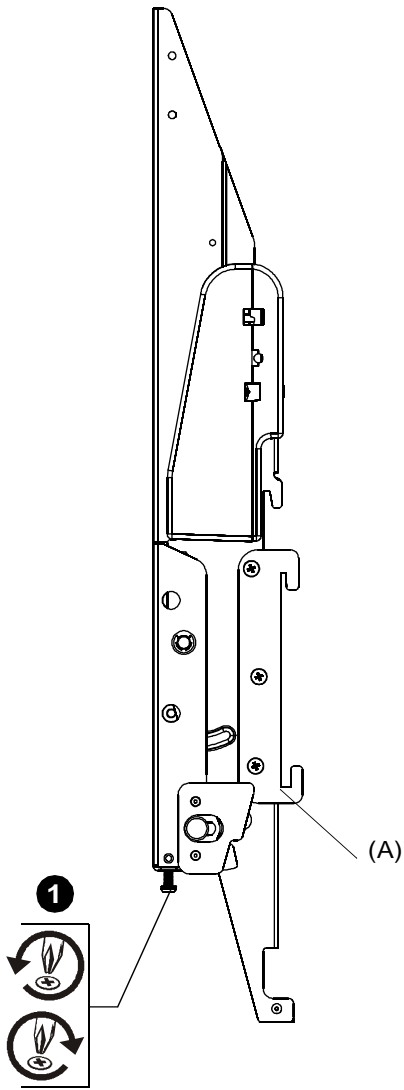


**Removing Spring to Tilt Display**

1. Remove and keep two Phillips screws from plastic cover on non-motorized bracket (C).
2. Remove and keep one Phillips screw from latch.
3. Lower latch to remove spring.
4. Return latch to original position.
5. Store spring in plastic cover.
6. Reinsert screw holding the latch.
7. Reinstall plastic cover using two screws removed in Step 1.
8. Use the down arrow button on the remote control (J) to tilt down the display. The display should now tilt down fully.



7



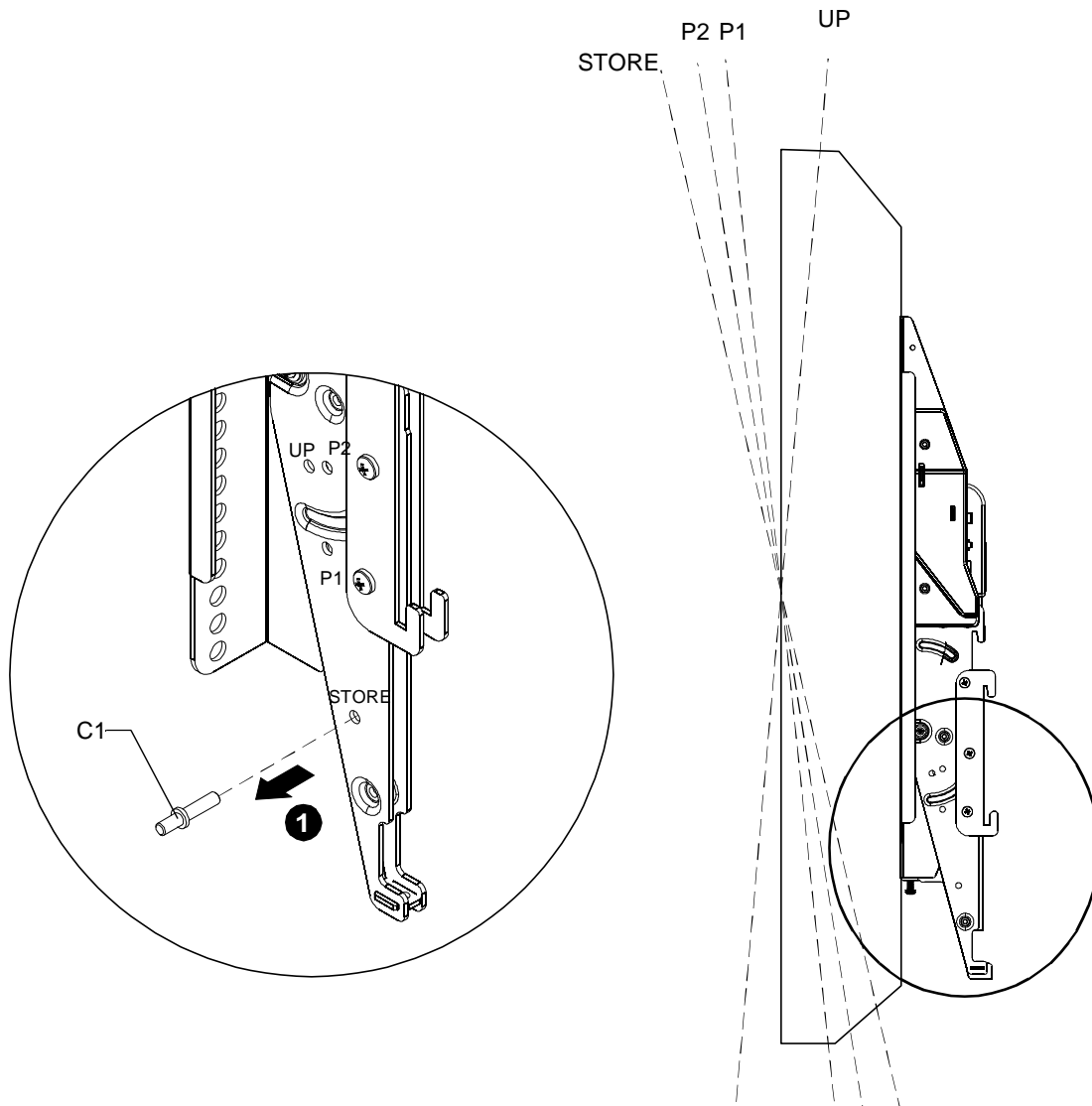
**Adjusting Upright Position of Display (Optional)**

1. Adjust upright position of display (+/- 2°) by turning the bottom screw on the motorized bracket (A).

8

**Setting Preset Position**

1. Remove pin (C1) from STORE opening.
2. Insert pin into appropriate opening dependent on tilt angle desired:
  - Insert pin into "P1" for maximum preset tilt angle of approximately 6°.
  - Insert pin into "P2" for maximum preset tilt angle of approximately 9°.
  - Insert pin into "STORE" for full tilt angle of 13°.
  - Insert pin into "UP" to lock the display in the up position (approximately 5°).





**MANUFACTURERS  
DECLARATION OF CONFORMITY**  
For

**Product identification:**

Model/type : Electronic Wall Mount  
 Category (description) : Mounting devices, Stands and other Accessories, to be used with entertainment electronics  
 Brand : CM8T15U

**Manufacturer:** Milestone AV Technologies  
 8401 Eagle Creek Parkway  
 Savage, MN 55378

**EU Representative:** Milestone AV Technologies  
 Fellennoord 130 5611  
 ZB Eindhoven  
 The Netherlands  
 31 (0)20 5708923

Concerning	EMC	Safety
	<b>A sample of the product has been tested by:</b>	Bontek Compliance Testing Laboratories
<b>Test report reference</b>	BCT08KR-881E	08CA16246
<b>Applied standards</b>	EN55013 :2001+A1:2003+A2:2006 EN61000-6-1:2007 EN61000-3-2:2006 EN61000-3-3:1995+A1:2001+A2:2005	UL1678, UL2442:2/2007 UL60950-1

**Means of conformity**

We declare under our sole responsibility that this product is in conformity with Directive 93/68/EEC (Marking), 2004/108/EC (EMC), 2001/95/EC (Safety) and/or complies to the essential requirements and all other relevant provisions of the based on test results using (non)harmonized standards in accordance with the Directives mentioned



Our Mounts. **Your Vision.**

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