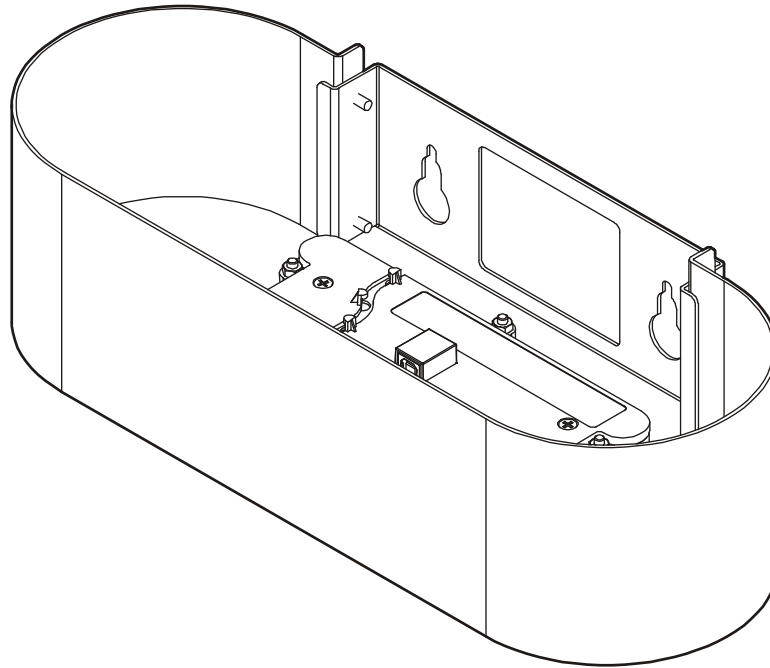# INSTALLATION INSTRUCTIONS

Interactive Upgrade Kit - Ceiling Projector

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.

⚠ IMPORTANT SAFETY INSTRUCTIONS

⚠ **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.

⚠ **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:** 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 5/8" (1.6cm). Do not install drywall anchors into the seam between drywall pieces.

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

⚠ **WARNING:** Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.
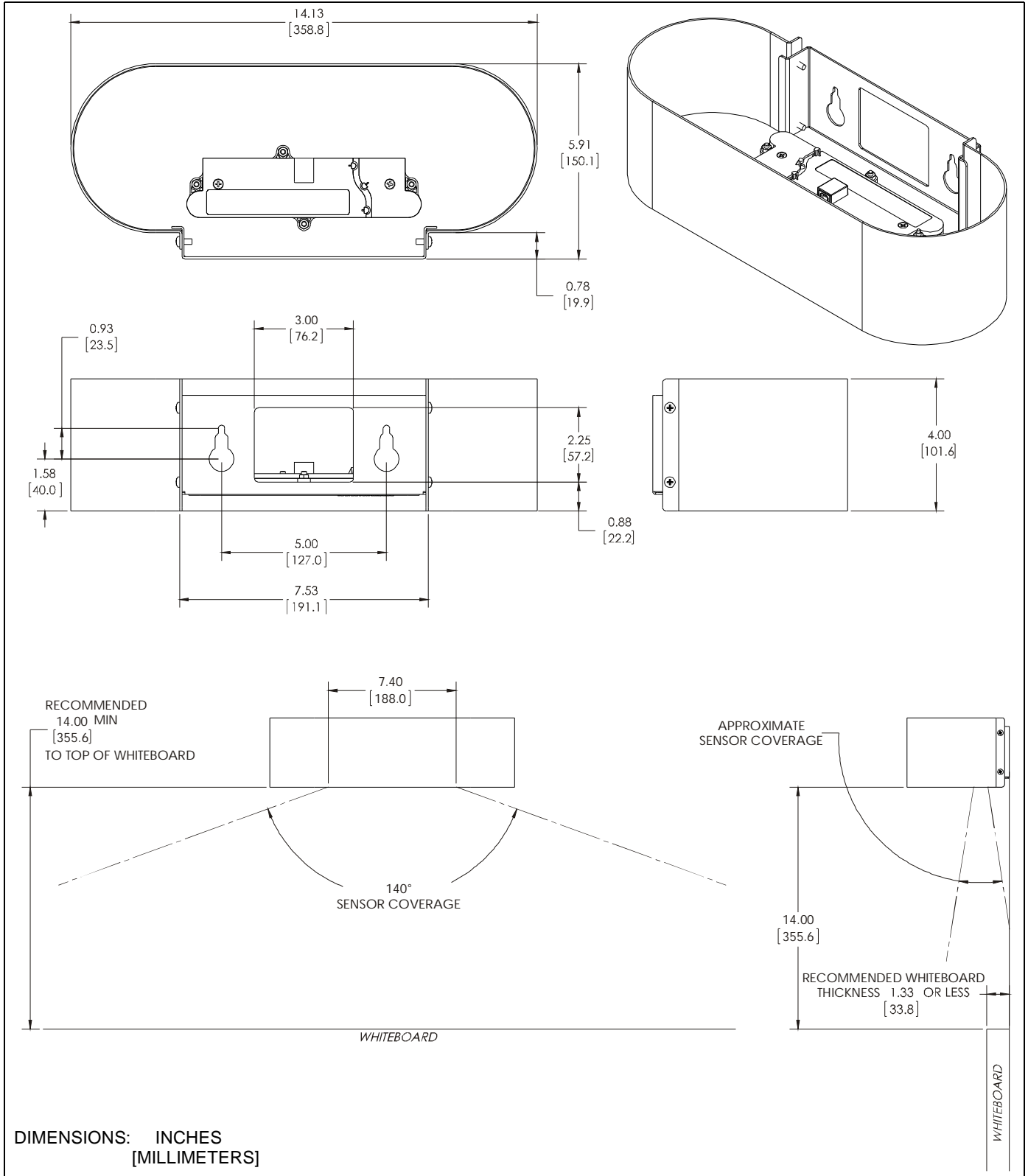
⚠ **WARNING:** Do not use this product outdoors.

IMPORTANT ! : The CMSI is designed to be mounted to an 8" concrete, 8"x8"x16" concrete block, clay brick, or 2" x 4" wood studs, and may also be attached to drywall only.
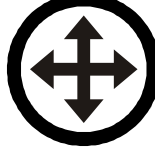
NOTE: The CMSI weighs 5 lbs (2.3 kg).

--SAVE THESE INSTRUCTIONS--

DIMENSIONS

14.13
[358.8]

5.91
[150.1]

0.78
[19.9]

0.93
[23.5]

3.00
[76.2]

1.58
[40.0]

2.25
[57.2]

0.88
[22.2]

5.00
[127.0]

7.53
[191.1]

4.00
[101.6]

7.40
[188.0]

RECOMMENDED
14.00 MIN
[355.6]
TO TOP OF WHITEBOARD

140°
SENSOR COVERAGE

APPROXIMATE
SENSOR COVERAGE

14.00
[355.6]

RECOMMENDED WHITEBOARD
THICKNESS 1.33 OR LESS
[33.8]

WHITEBOARD

WHITEBOARD

DIMENSIONS: INCHES
                [MILLIMETERS]

LEGEND

	Tighten Fastener
	Apretar elemento de fijación
	Befestigungsteil festziehen
	Apertar fixador
	Serrare il fissaggio
	Bevestiging vastdraaien
	Serrez les fixations

	Pencil Mark
	Marcar con lápiz
	Stiftmarkierung
	Marcar com lápis
	Segno a matita
	Potloodmerkteken
	Marquage au crayon

	Loosen Fastener
	Aflojar elemento de fijación
	Befestigungsteil lösen
	Desapertar fixador
	Allentare il fissaggio
	Bevestiging losdraaien
	Desserrez les fixations

	Drill Hole
	Perforar
	Bohrloch
	Fazer furo
	Praticare un foro
	Gat boren
	Percez un trou

	Phillips Screwdriver
	Destornillador Phillips
	Kreuzschlitzschraubendreher
	Chave de fendas Phillips
	Cacciavite a stella
	Kruiskopschroevendraaier
	Tournevis à pointe cruciforme

	Adjust
	Ajustar
	Einstellen
	Ajustar
	Regolare
	Afstellen
	Ajuster

	Open-Ended Wrench
	Llave de boca
	Gabelschlüssel
	Chave de bocas
	Chiave a punte aperte
	Steeksleutel
	Clé à fourche

	Remove
	Quitar
	Entfernen
	Remover
	Rimuovere
	Verwijderen
	Retirez

	By Hand
	A mano
	Von Hand
	Com a mão
	A mano
	Met de hand
	À la main

	Optional
	Opcional
	Optional
	Opcional
	Opzionale
	Optie
	En option

	Hex-Head Wrench
	Llave de cabeza hexagonal
	Sechskantschlüssel
	Chave de cabeça sextavada
	Chiave esagonale
	Zeskantsleutel
	Clé à tête hexagonale

	Security Wrench
	Llave de seguridad
	Sicherheitsschlüssel
	Chave de segurança
	Chiave di sicurezza
	Veiligheidssleutel
	Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION

7/32"
3/8"

1/2"

1/2"

PARTS

(A) - Chief Interactive Kit

AA (1)
[Stylus replacement tip kit - 4 tips]

AB (1)
[Stylus]

AC (1)
[Interactive software]

AD (1)
[AAA battery]

AE (1)
[Quick start guide]

AF (1)
[Stylus wrist strap kit]

AG (1)
[Interactive USB cable]

(B) - Mounting Kit

BA (4)
5/16 x 2-1/2"

BB (4)
5/16"

BC (4)
[Concrete anchor]

C (1)
[Cover]

D (1)
[Sensor assembly]

E (4)
8-32 x 3/8"

F (2)
08 x 2"
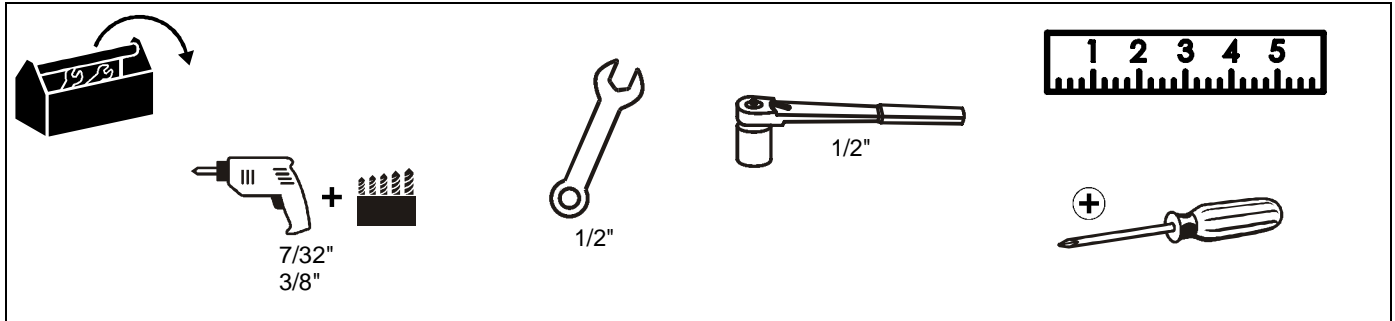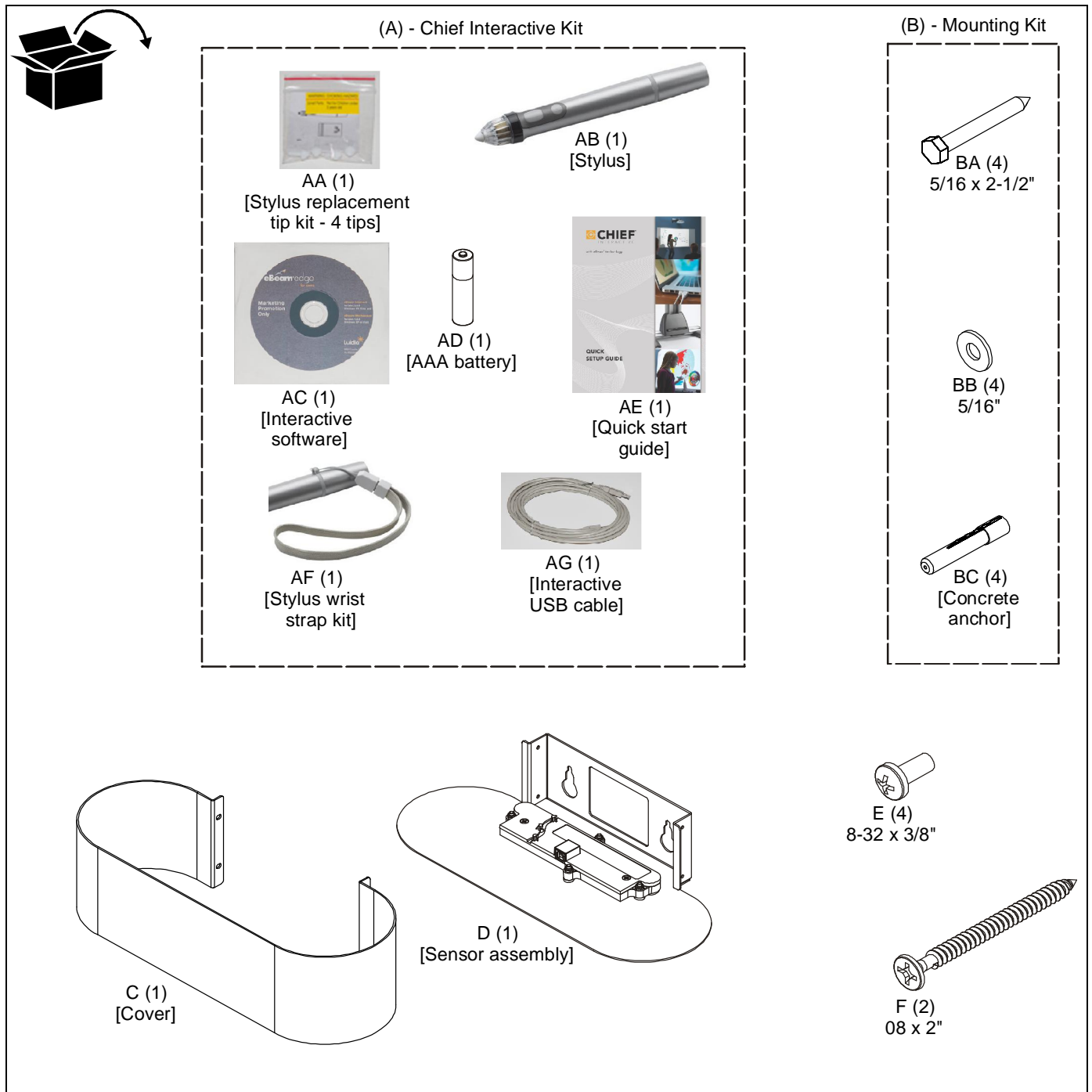
INSTALLATION

1. Determine mounting location of the CMSI.

IMPORTANT ! : The CMSI should be centered above the whiteboard, and be located a minimum of 14" (355.6mm) above the whiteboard. (See DIMENSIONS drawing for further information.) The whiteboard should have a maximum thickness of 1.33" (33.8mm) or less.

2. Using the sensor assembly (D) as a template, mark two holes through the holes in the assembly.

3. Proceed to appropriate wall type for further instruction.

⚠ **WARNING:** ELECTRICAL SHOCK HAZARD! CUTTING OR DRILLING INTO ELECTRICAL CORDS OR CABLES CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of electrical wires and cables before cutting, drilling, or installing fasteners.

⚠ **WARNING:** EXPLOSION AND FIRE HAZARD! CUTTING OR DRILLING INTO GAS PLUMBING CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of gas, water, waste, or any other plumbing before cutting, drilling, or installing fasteners.

Concrete Wall

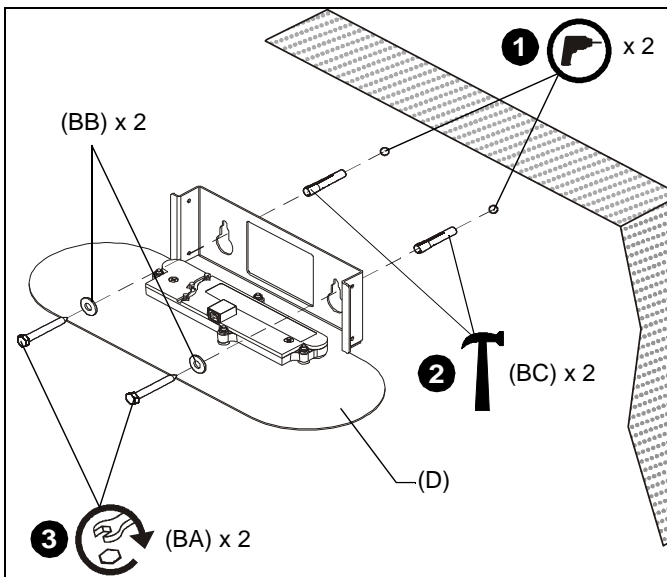1. Drill two 3/8" holes at marked locations in wall. (See Figure 1)

Figure 1

2. Install two concrete anchors (BC) into drilled holes. (See Figure 1)

3. Install two 5/16 x 2-1/2" hex head lag screws (BA) through two 5/16" washers (BB), middle section of mounting holes in sensor assembly (D) and into concrete anchors (BC). (See Figure 1)

Wood Studs

IMPORTANT ! : The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm).

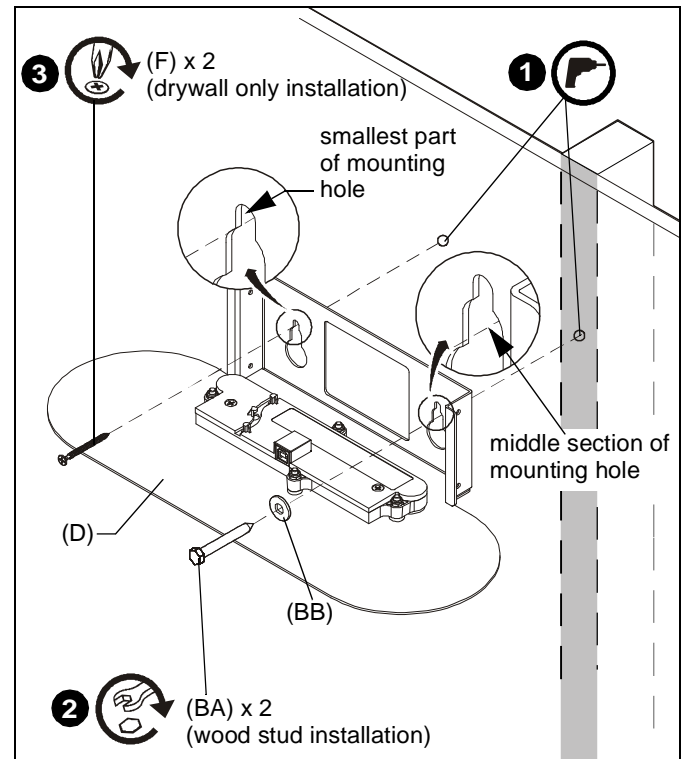1. Drill two 7/32" holes at marked locations in wall. (See Figure 2)

Figure 2

2. Install two 5/16 x 2-1/2" hex head lag screws (BA) through two 5/16" washers (BB), middle section of mounting holes in sensor assembly (D) and into drilled holes. (See Figure 2)

Drywall Only

IMPORTANT ! : Do not install drywall anchors into the seam between drywall pieces.

3. Install two 08 x 2" Phillips head screws (F) through smallest part of mounting holes in sensor assembly (D) and into drywall. (See Figure 2)

Completing Installation

1. Install cover (C) to sensor assembly (D). (See Figure 3)

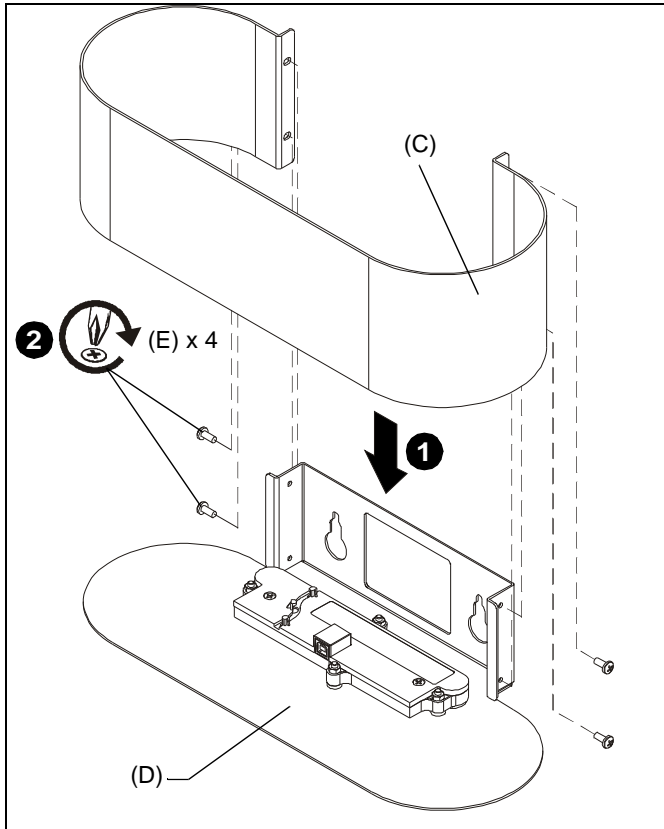2. Fasten cover with four 8-32 x 3/8" Phillips head screws (E). (See Figure 3)

Figure 3

CONNECTING CMSI

NOTE: Follow instructions in the Quick Start Guide (AE).

IMPORTANT ! : After adding battery (AD) to the stylus (AB), tighten the cap **only** to the point of being fingertip-tight. Overtightening cap may cause the stylus to stop transmitting signals.

1. Connect projector to computer.

2. Connect USB cord (AG) from cartridge in CMSI to computer USB port.

3. Insert interactive software CD (AC) into computer, and follow start-up and operating instructions.

Minimum System Requirements for CMSI

- Windows® System
  - Compatible PC with Pentium™ II 400 MHz+ processor and 256 MB RAM
  - Windows 2000, XP, Server 2003, Vista, or 7
  - 30 MB available hard drive space
  - Available USB port

- Macintosh® System
  - Power PC®/Intel™ 1.42 GHz+ processor and 1G RAM
  - Mac OS X 10.5 through 10.6
  - 25 MB available hard drive space
  - Available USB port

Active Capture Area Size

- The maximum active capture area supported is: 4 ft x 7 ft or up to 94 inches diagonal measure.
- The minimum active capture area supported is: 1.7 ft x 1.1 ft.

Connection Requirement

- The CMSI includes a USB cable.

Screen Recording Requirements

(Currently available only on Windows platform.)

- Pentium™ IV processor
- 1.4GHz, with 512MB RAM

Placement and Projection Area Constraints

NOTE: See **DIMENSIONS** drawing for placement information.

- There should be a minimum distance of 14" (355.6mm) between the base of the CMSI and the top of the whiteboard.
- The distance between the base of the CMSI and the bottom corner of the projection image (both right and left) should be less than or equal to 110 inches.
- The projection image should start a minimum of 1" (25.4mm) from the base of the top frame of the whiteboard.
- The projection image should be positioned within the fan area extending from the CMSI. This fan area should not exceed 140°.

Whiteboard Constraints

- The whiteboard should not be thicker than 1.33" (33.8mm).
- The ledge of the whiteboard frame should be less than or equal to 1/3".

Important Notes

- Do not put sticky notes, hanging paper, cables, outlets, or other items below the CMSI or inside the capture area.
- Image should be placed one inch below the edge of the whiteboard to minimize interference from the frame top.

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