# CM-BB10-27-W / CM-S10-27-W (Shipped in 2 boxes)

STEP 1 - Remove Items from boxes and inspect.

Supplied Parts

A. Top Mount Assembly
B. Top Tube 1.75" dia x 92" lg.
C. Extension Assembly
D. Middle Tube, 1.375" dia. X 94"lg.
E. Bottom Telescoping Tube 1" dia.
F. Tether *(not shown)*
G. Hardware Kit #1

    a. Bolt, Hex Head, 3/8-16 x5.5" (2)
    b. Washer (2)
    c. Washer, Split lock 3/8 (2)
    d. Hex nut, 3/8-16 (2)

H. Hardware Kit #2

    e. Screw, 1/4-20 x 2.25" Pan Hd. Phil (4)
    f. Nut, Nylon, 1/4-20 (12)
    g. Screw, 1/4-28 x .375" Pan Hd. Phil (7)
    h. Screw, 1/4-20 x 1.75" Pan Hd. Phil (3)
    i. Screw, 1/4-20 x 2.5" Pan Hd. Phil (1)

I. Hardware Kit #3

    j. Screw, Pan Head, 1/4-20 x 1.5" Phillips (2)
    k. Locknut, 1/4-20 (2)
    l. Packages of 4 screws M4-0.7 x6mm (2)

J. Spare Hardware Kit
K. Back to Back Mount
    (CM-BB10-27-W only)
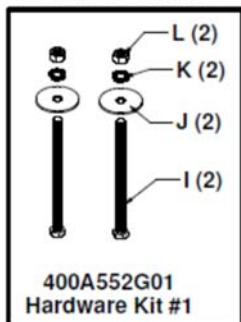L. Single Monitor Mount
    (CM-S10-27-W only)
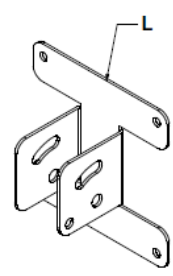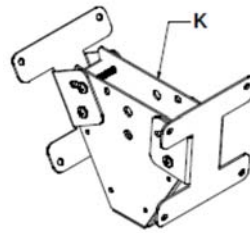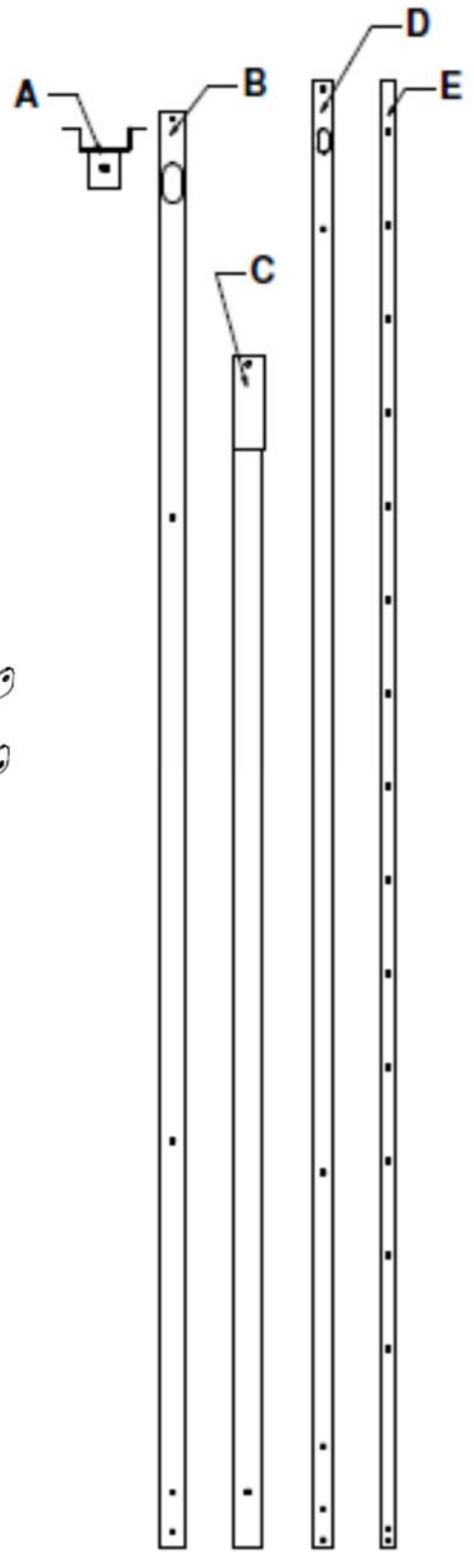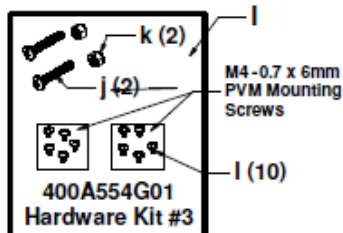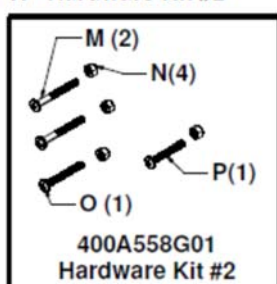
Wedging Screw Package

(1) used in Tube **D**
(1) Spare

Required Tools

1. Wrench/ Socket size 9/16"

2. Wrench/ Socket size 7/16"
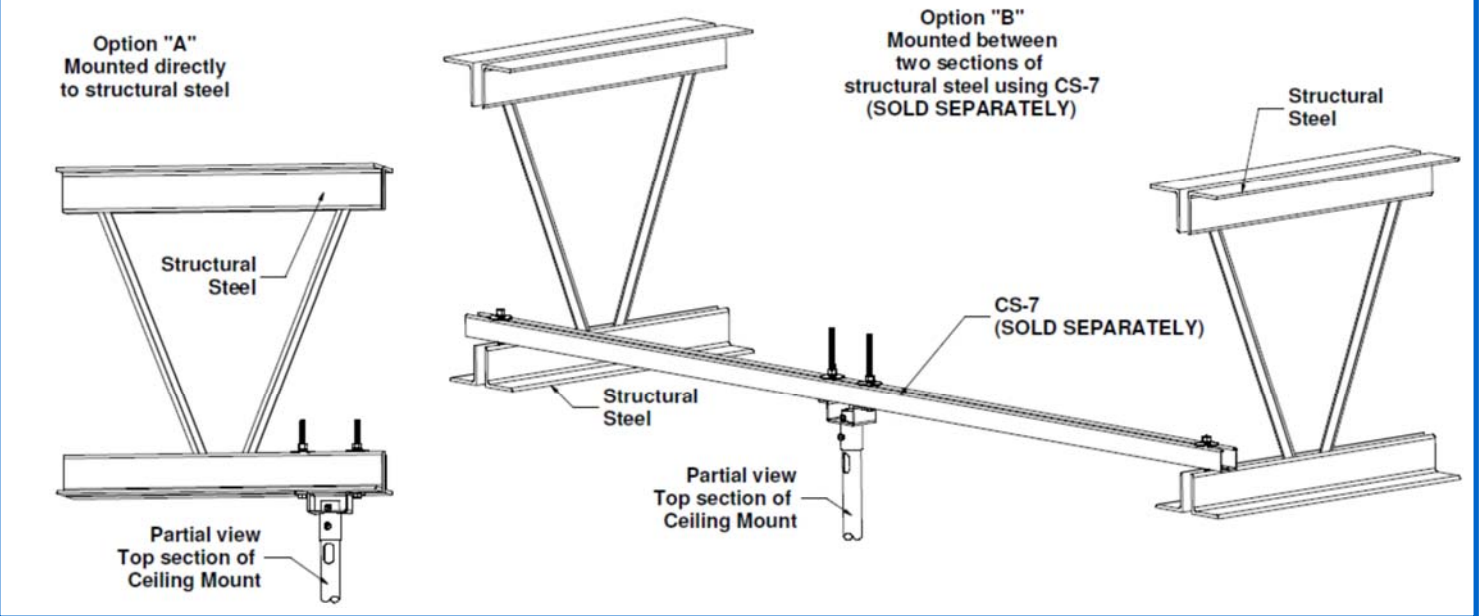3. Screw driver #3

G - Hardware Kit #1
L (2)
K (2)
J (2)
I (2)
400A552G01
Hardware Kit #1

H - Hardware Kit #2
M (2)
N(4)
P(1)
O (1)
400A558G01
Hardware Kit #2

k (2)
j (2)
I
M4 -0.7 x 6mm PVM Mounting Screws
I (10)
400A554G01
Hardware Kit #3

STEP 2 - Route power cables to desired location.

STEP 3- Choose Mounting option A or B

Option "A"
Mounted directly
to structural steel

Structural
Steel

Partial view
Top section of
Ceiling Mount

Option "B"
Mounted between
two sections of
structural steel using CS-7
(SOLD SEPARATELY)

Structural
Steel

CS-7
(SOLD SEPARATELY)

Structural
Steel

Partial view
Top section of
Ceiling Mount

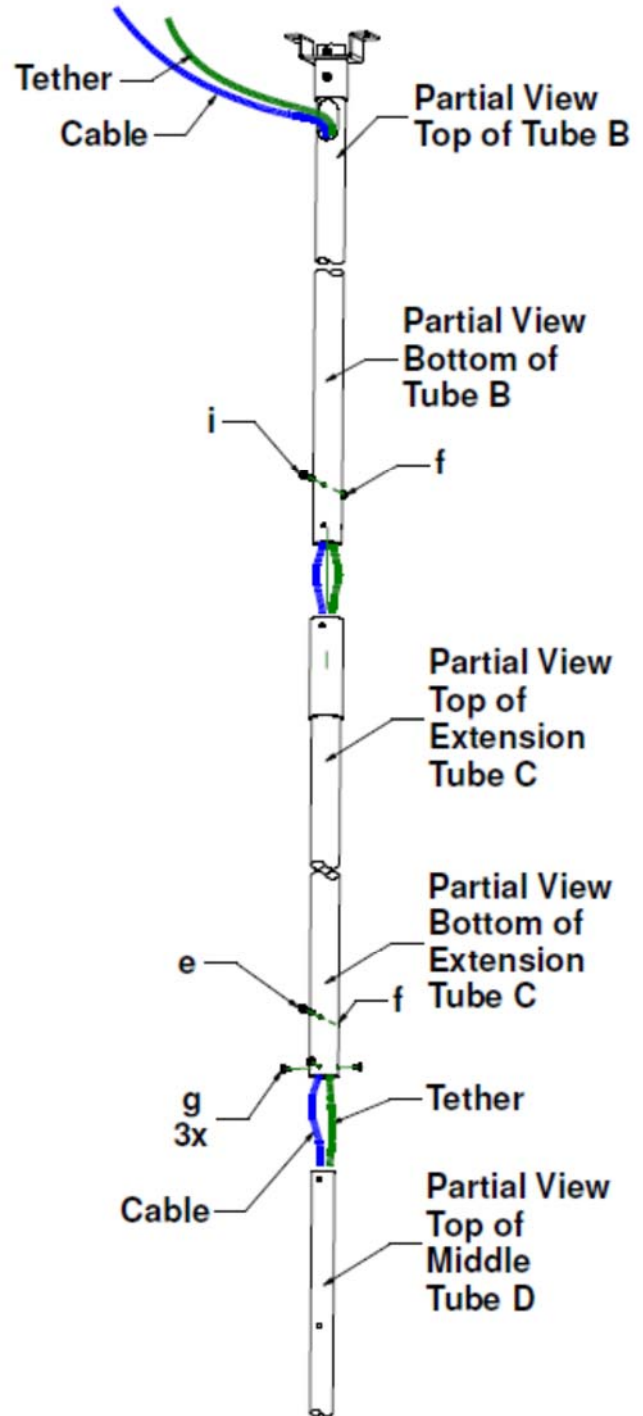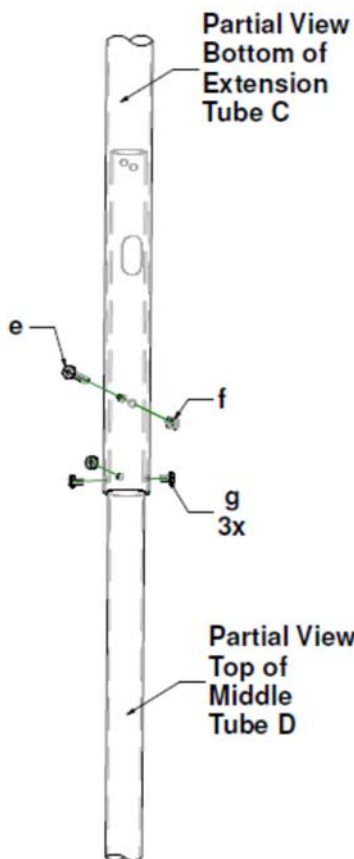**STEP 4 – Install Top Assembly with Top tube**

- Choose mounting Option **"A"** or **"B"**.
- Slide part **"A"** over part **"B"** to expose thru hole at end of tube **"B". See Fig. 1.**
- Insert screw **"e"** thru tube **"B"** and thread nut **"g"** on screw.
- Tighten screw **"f"** to lock rotation of tube in place.
- Mount Top Assembly with Top tube per chosen option using **Hardware Kit #1**.
- Route Tether and cables through Cable Entry in Top Tube.

NOTE: A minimum of 8 foot of power cable should extend beyond the bottom end of Top Tube.
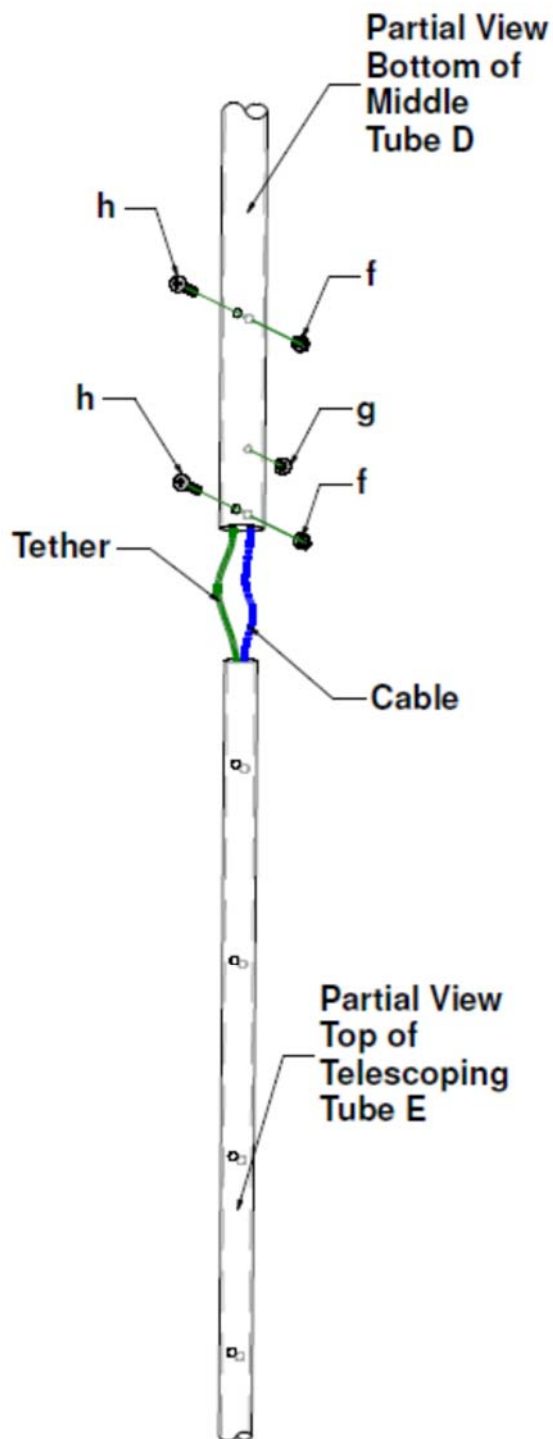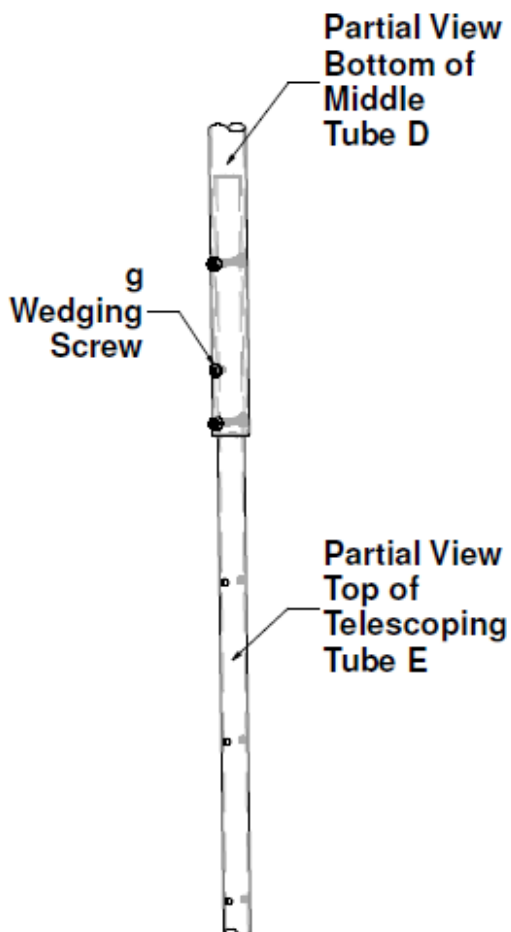
Option "A"

Hardware Kit #1
- Lock Nut
- Split Washer
- Washer

Bolt

Partial view
Tube Assembly

Cable
Entry

Fig. 1
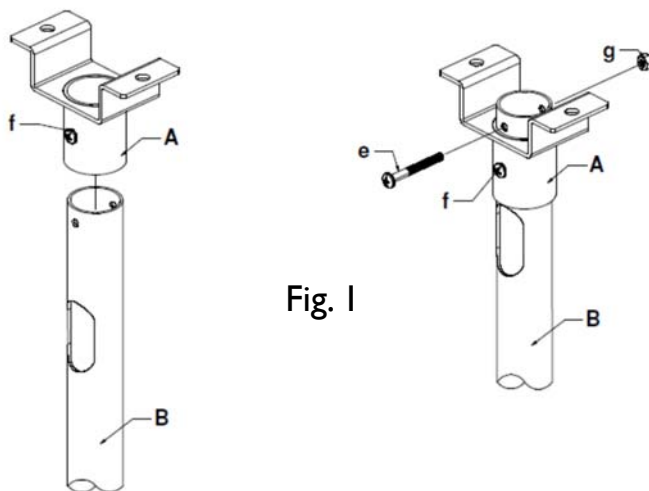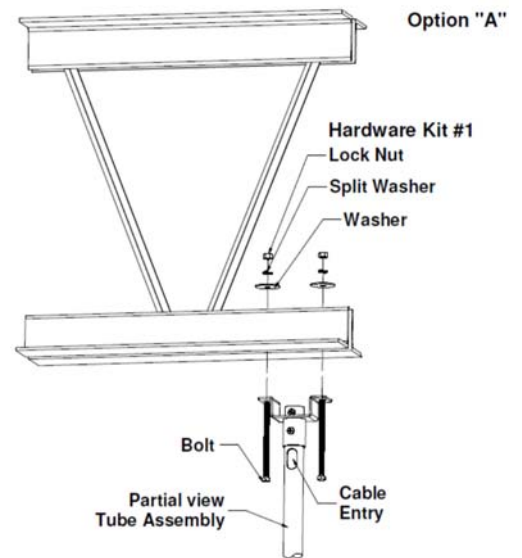
STEP 5 – Install Extension Tube

A. Route extended Tether and cables through Extension Tube **"C"** starting with the larger diameter end.

B. Complete connection by inserting Screw **"i"** through Extension Tube and Top tube. Thread Lock nut **"f"** on Screw **"i"**.

C. Pull cables to extend beyond the end of the Extension Tube. Make sure there is enough cable to thread through part **"D"** Middle Tube.

D. When installing "**D**" Middle Tube, thread Tether and Cables starting with the end of the tube that has the slot. Slide part "**D**" into bottom of part "**C**". Align the second thru holes of part "**D**" with bottom thru hole of part "**C**". Insert screw "**e**" and thread on nut "**f**".

E. Tighten 3 wedging screws part "**g**" to prevent wobble and position Middle Tube "**D**" vertical. See detail below.

F. Pull Tether and Cables to extend approximately 8' beyond the end of tube "**D**".

Tether

Cable

Partial View Top of Tube B

Partial View Bottom of Tube B

i

f

Partial View Top of Extension Tube C

Partial View Bottom of Extension Tube C

e

f

g 3x

Tether

Cable

Partial View Top of Middle Tube D

Partial View Bottom of Extension Tube C

e

f

g 3x

Partial View Top of Middle Tube D

STEP 6 – Install Bottom Adjustment Tube and set height adjustment

A. Route extended portion of Tether and cables through **"E"** (Telescoping Adjustment Tube).

B. Slide Telescoping Tube into Tube **"D"** until bolt holes align at desired height.

C. In Hardware Kit #2 find one Screw, 1/4-20 x 1.75" Pan Head part **"h"**. Use part **"f"** to lock the desired height. Slide screw through aligned adjustment holes of Telescoping Tube and install locknut part **"g"**.

D. Retract extend Tether and cables as needed to have 6" inches of cable extending beyond telescoping tube.

E. Tighten one wedging screw "**g**" to secure Telescoping tube.

F. Secure Tether at the top to the structural steel by wrapping around and using cable clip included in Tether package.
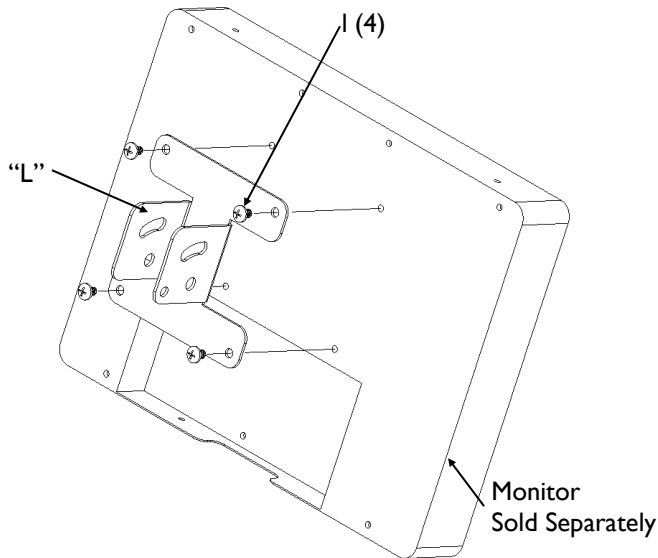
Partial View Bottom of Middle Tube D

h

f

h

g

f

Tether

Cable

Partial View Bottom of Middle Tube D

g Wedging Screw

Partial View Top of Telescoping Tube E

Partial View Top of Telescoping Tube E

wren
SOLUTIONS ™

Proceed to Step 6 for CM-S10-27-W
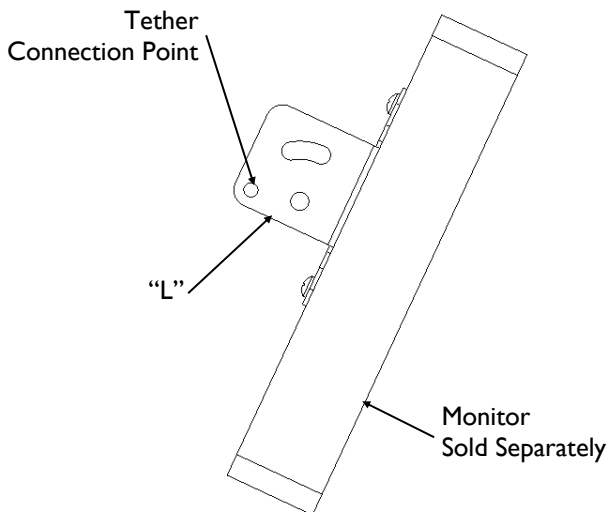## Proceed to Step 9 for CM-BB10-27-W

STEP 7 — Install 10" ePVM on Monitor Mounting Bracket

A. **Prepare Monitors for installation.**
- Remove monitor access door. Set aside to be installed later.
- Hardware Kit #3 has 2 packages of "l" monitor mounting screws. Use one package to mount monitor to item **"L"**.

l (4)

"L"

Monitor
Sold Separately

MOUNTING MONITOR

Tether
Connection Point

"L"

Monitor
Sold Separately

SIDE VIEW IDENTIFICATION

STEP 8 — Mount Monitor Mounting Bracket to Telescoping Ceiling Mount

A. **Attach Tether to Monitor Mounting Bracket**
- Use screw and nut found in Tether Package to attach Tether end with eye to Monitor Mounting Bracket at Tether attachment point identified below.

B. **Align Monitor Mounting Bracket holes with holes in Telescoping tube.**

C. **Use the remaining 2 Screws and Lock nuts from Hardware Kit #3 to secure Monitor Mounting Bracket on Telescoping tube.**
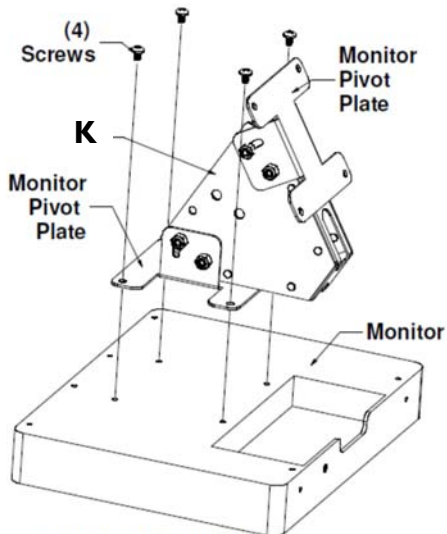
Cable

Tether

"k" (2)

Tether
Connection Point

Tether Screw

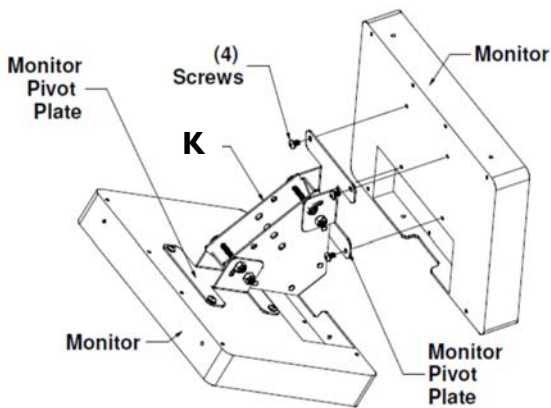"j" (2)
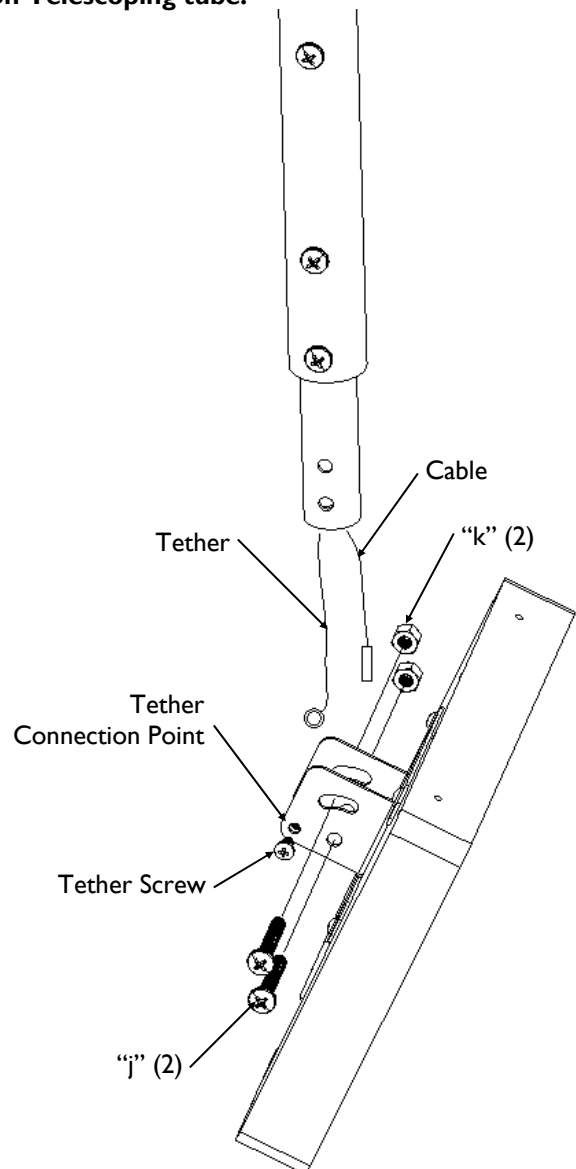
INSTALLATION INSTRUCTIONS

STEP 9 — Install 10" ePVM on Back to Back mount assembly
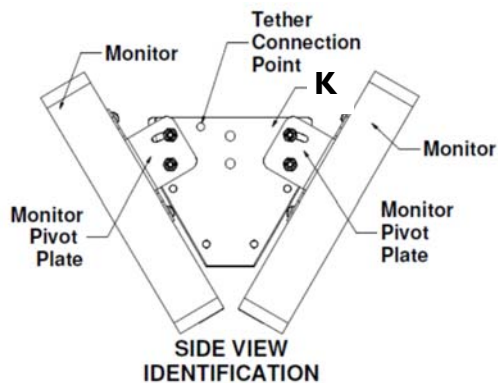
A. **Prepare Monitors for installation.**
- Remove monitor access doors from each monitor. Set aside to be installed later.
- Hardware Kit #3 has 2 packages of monitor mounting screws. Use one package to mount each monitor to item **"K"**.

MOUNTING FIRST MONITOR

MOUNTING SECOND MONITOR

SIDE VIEW IDENTIFICATION

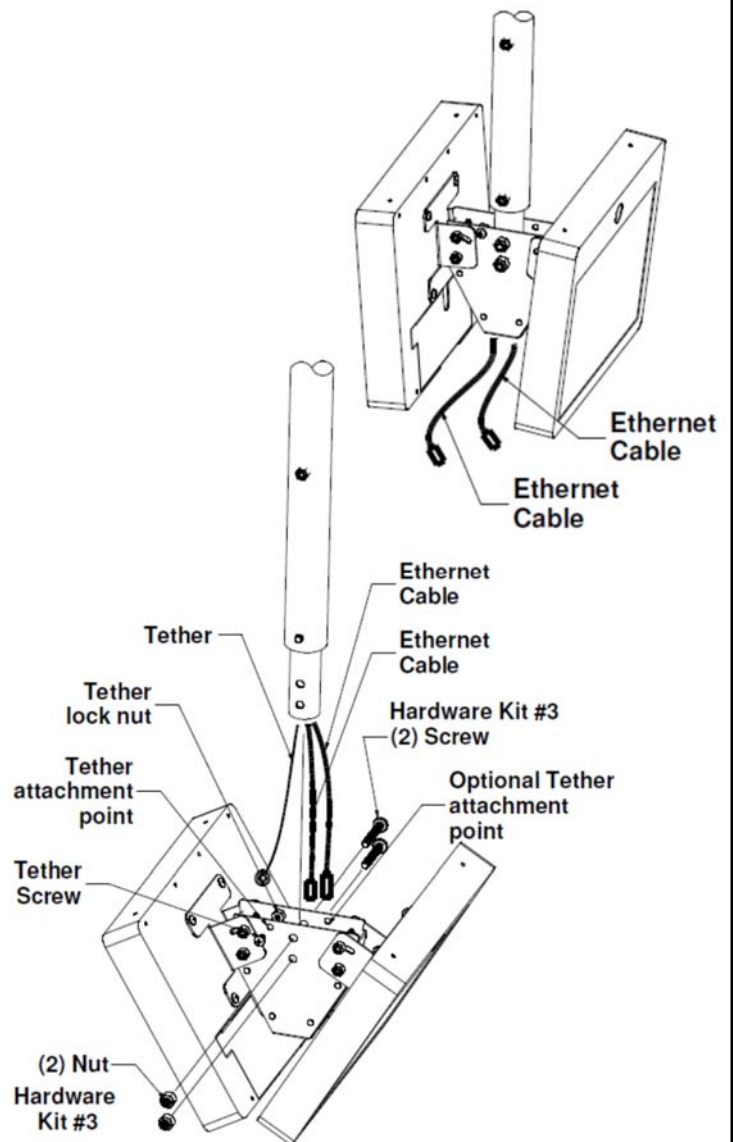## STEP 10 — Mount Back to Back assembly to Telescoping Ceiling Mount

A. **Attach Tether to Back to Back Assembly**
- Use screw and nut found in Tether Package to attach Tether end with eye to Back to Back Assembly at either Tether attachment point identified below.

B. **Route Ethernet cables through Back to Back Mount assembly.**

C. **Align Back to Back Assembly holes with holes in Telescoping tube.**

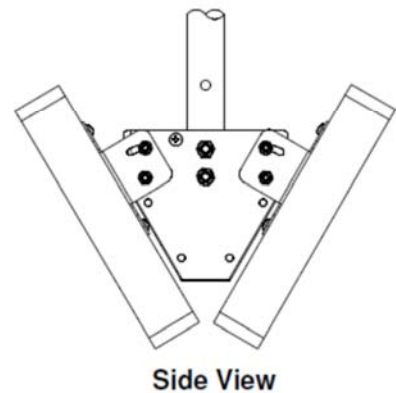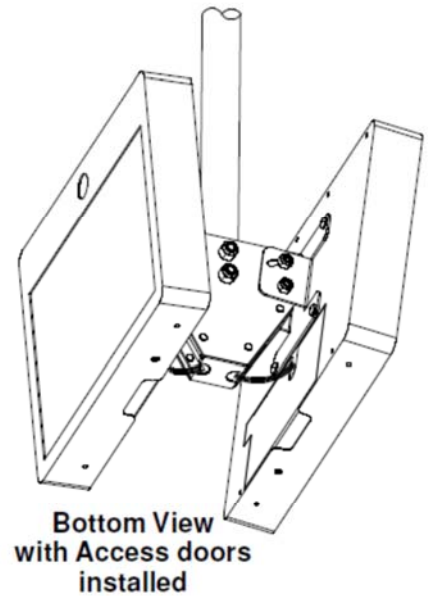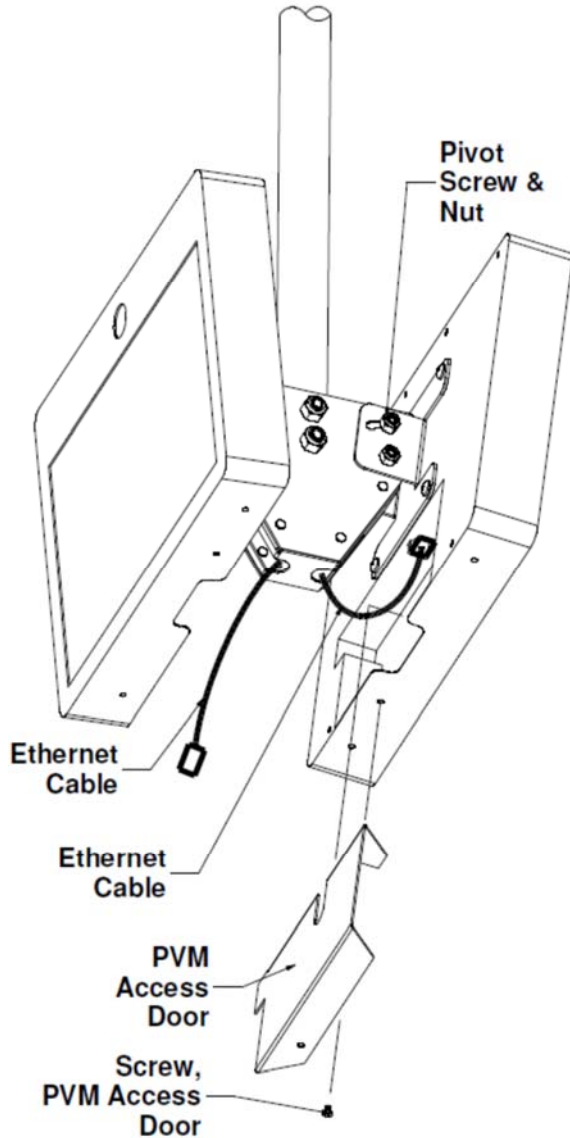D. **Use the remaining 2 Screws and Lock nuts from Hardware Kit #3 to secure Back to Back Assembly on Telescoping tube.**

STEP 11 — Complete Ethernet connections to ePVM

A. Connect Ethernet cable to ePVM.
- Loosen screw allowing monitor mounting bracket to pivot.
- Connect each Ethernet cable to the adjacent monitor.
- Install access door removed in STEP 7 on each monitor.
- Retract excess Ethernet cable.
- Position Monitors to desired camera viewing angle.
- Snuggly tighten Pivot Screw and nut to secure Monitor position.