

# PORTER

*The Trusted Name In Nitrous*

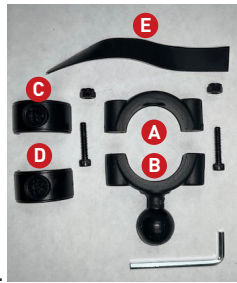
## Porter Midas™ eAVS

### Chair Mount Kit Installation Instructions



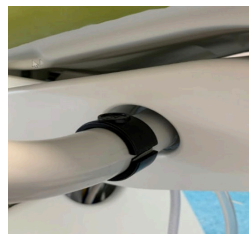
### 1. Locate the following items:

- Mount clamps **A** and **B**
- 1.27 clamp inserts **C** and **D**
- Rubber insert lining **E**
- Discard (2) extra 1.12 clamp inserts



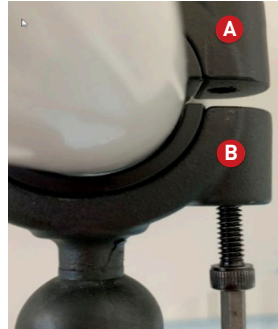
### 2. Cut the rubber insert lining **E** to fit inside the 1.27 clamp inserts.

This will prevent the clamp from moving on the chair arm.

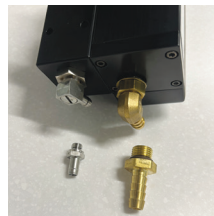


### 3. Place inserts on either the right or left armrest of the chair.

4. Place ball mount clamps **A** and **B** over the rubber-lined inserts **C** and **D**. Clamp **A** and **B** together on top of the inserts with screws and lock nuts using the 4 mm wrench provided. The ball should face down towards the floor.



5. Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS, then replace them with the straight barb fittings in the kit.



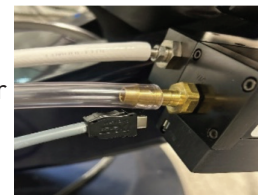
6. Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.

7. Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place but loose enough that the socket will allow the ball to rotate with the movement of the arm.



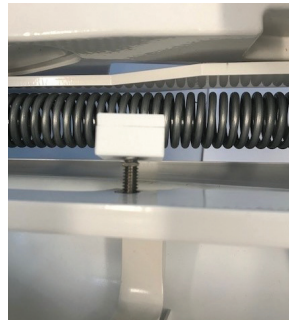
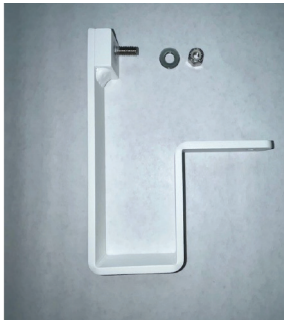
8. Run the white mixed gas tubing, clear vacuum tubing, and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

9. Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.





**1.** Remove chair upholstery and locate pre-drilled hole in the chair frame.



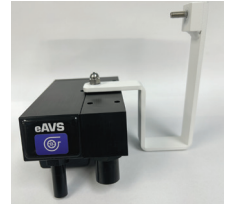
**2.** Slide the vertical post of the U-bracket up underneath the chair, between the chair spring and chair frame. Place the U-bracket threaded post through the chair frame hole and through the larger metal washer on the opposite side. Thread on lock nut and tighten with 7/16" wrench.

**3.** Remove the 90 degree mixed gas and vacuum barbs on the back of the eAVS, then replace them with the straight barb fittings in the kit.

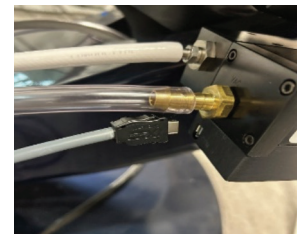


**4.** Screw the set screw into the threaded hole closest to the chair using the 1/8" allen wrench provided.

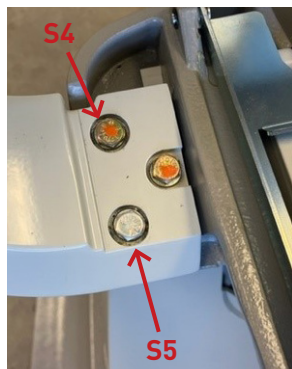
**5.** Install the Midas bag tee and eAVS with the front facing the rear of the chair. Place 1 nylon washer on the threaded post. Place the threaded post through the mounting hole on the U bracket. Place the 2nd nylon washer, metal washer and thread on acorn nut. Tighten with 7/16" wrench.



**6.** Run the white mixed gas tubing, clear vacuum tubing and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS. Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.







**1.** Remove seat upholstery to locate the 3 screws that connect the chair arm to the chair frame. Remove the bolt closest to the front of the chair for S5 Series. Remove bolt closest to the back of the chair for S4 Series.

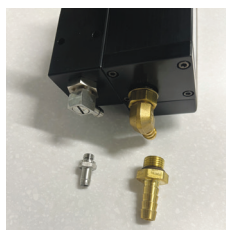


**2.** Replace existing bolt with the 2" bolt and existing split washer. Thread bolt through split washer and chair.



**3.** Thread the ball mount onto the bolt, followed by the split washer and nut. Tighten the nut to secure the ball mount to the chair, orienting the ball out towards the side of the chair using a 9/16" wrench.

**4.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



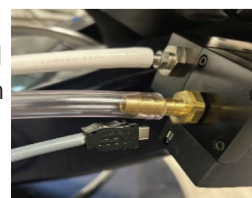
**5.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.



**6.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



**7.** Run the white mixed gas tubing, clear vacuum tubing and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS. Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair, providing easy access for the breathing circuit connections.

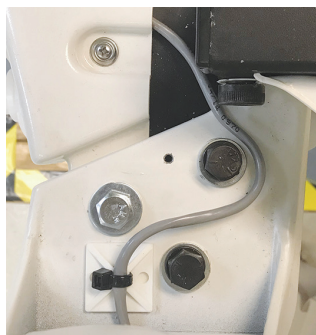


### CMK-D-5000-M Parts





**1.** Remove upholstery from chair. Remove screw and plastic cover where the arm meets the chair.



**2.** Locate the 3 bolts that attach the arm to the chair and remove the bolt closest to the rear of the chair. Keep the existing split washer and flat washer. Replace with 2" bolt provided placing the existing split washer and flat washer on the bolt and thread through the chair.



**3.** Underneath the chair arm, place the ball mount on the bolt followed by the lock nut. The ball mount should be orientated towards the back of the chair. Tighten with 9/16" wrench.

**4.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



**5.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.

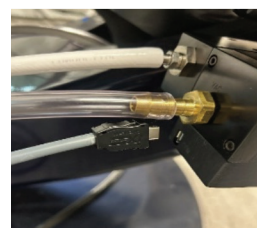


**6.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



**7.** Run the white mixed gas tubing, clear vacuum tubing, and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

**8.** Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair, providing easy access for the breathing circuit connections.





- 1.** Remove upholstery from chair, locate the pre-drilled holes on the black mounting plate.



For PD2, GP2 and RS1 chairs, use the middle hole to mount the hardware.



For R16 and Signet chairs, pick either hole to mount the hardware.

- 4.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.

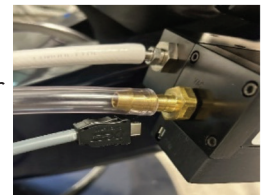


- 5.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



- 6.** Run the white mixed gas tubing, clear vacuum tubing, and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

- 7.** Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.



- 2.** Thread 1" bolt through the flat washer and pre-drilled hole shown above. Underneath the mounting plate place the ball mount and lock nut on the 1" bolt. The ball mount should be orientated towards the back of the chair. Tighten with a 9/16" wrench.



- 3.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



### CMK-Royal-M Parts

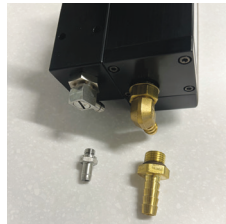


**1.** Locate the M6 threaded hole intended for accessories under the right or left arm of the chair.

**2.** Insert the M6 x 1.00 x 20mm socket head cap screw through the flat washer and through the ball mount.

**3.** Screw the bolt into the M6 hole on the chair orienting the ball out to the side of the chair or to any desired position.

**4.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



**5.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.

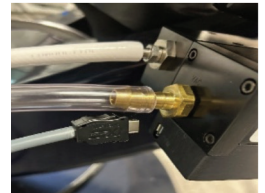


**6.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



**7.** Run the white mixed gas tubing, clear vacuum tubing, and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

**8.** Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.



### CMK-F-3800-M Parts





**1.** Remove or lift up the seat cushion on the chair. Locate the 2 bolts that connect the chair arm to the chair frame. Remove the bolt closest to the front of the chair, saving the washer on the bolt. Replace bolt with the 2 1/2" bolt in CMK kit and existing washer. If chair accessories are present with spacer, use 4" bolt provided and thread bolt through chair, spacer and accessory mount.

**2.** Thread the ball mount onto the bolt, followed by the nylon insert lock nut. Tighten lock nut using a 3/4" socket wrench until snug, orienting the ball towards the rear of the chair.



**3.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



**4.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.

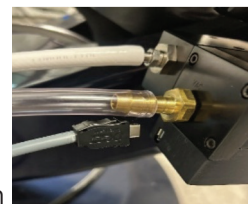


**5.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



**6.** Run the white mixed gas tubing, clear vacuum tubing, and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

**7.** Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.



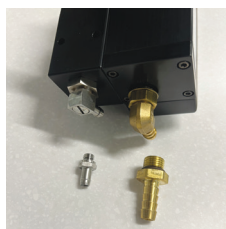




**1.** Locate the black strap with screw adjustment and V base. The metal adjustable strap should be inside the black rubber sleeve. Install the strap and V base to the right or left arm of the chair.

**2.** Attach the V base and ball to the underside of the chair arm using the adjustable strap. With a flathead screwdriver, tighten the strap around the chair arm, V base and ball. The strap adjustment screw should be approximately in the 7 o'clock position on the chair arm.

**3.** Remove the 90 degree mixed gas and vacuum barbs on the back of the bag tee and eAVS then replace them with the straight barb fittings in the kit.



**4.** Screw the 1" ball into the threaded hole on the top of the bag tee or eAVS, whichever is closest to the chair. Tighten with 5/8" wrench.



**5.** Connect one side of the horizontal clamp to 1" ball on the eAVS/bag tee and the other side to the ball on the arm of the chair. Tighten clamp until eAVS is held in place.



**6.** Run the white mixed gas tubing, clear vacuum tubing and eAVS communication cable from the junction box up through the chair cantilever and out to the bag tee and eAVS.

**7.** Connect the white mixed gas tubing to the 1/4" barb on the back of the bag tee and the clear vacuum tubing to the 3/8" barb on the back of the eAVS. Plug in the eAVS communication cable to the COM port on the back of the eAVS. The opposite end of the eAVS communication cable connects to the back of the flowmeter's SCAV port. The eAVS and bag tee should be facing the rear of the chair providing easy access for the breathing circuit connections.

