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Introduction

These instructions show how to mount Alpha 4000 and 7000 series (NEMA2 and non-NEMA2) and AlphaPremiere 4000 and 9000 series signs in two-sided (back-to-back) and three-sided (triangle) formation.

Materials needed for assembly

- #2 Phillips screwdriver
- Pliers
- Tape measure
- 1/2" deep well socket wrench
- 7 mm deep well socket wrench
- Torque wrench (optional, but recommended)

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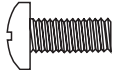

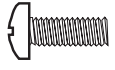







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Due to continuing product innovation, specifications in this manual are subject to change without notice.

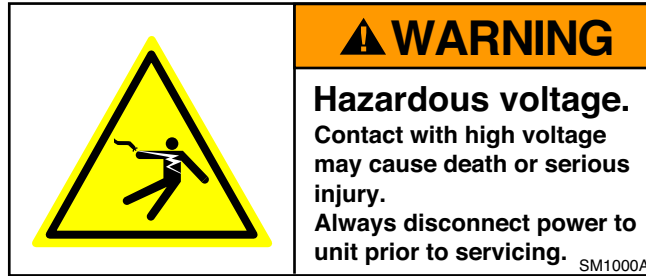
Hardware included

NOTE: Parts are not drawn to scale and may not be proportional to each other.

Part	Picture of part	Description of part	Quantity for 2-sided mounting	Quantity for 3-sided mounting
A		5/16" external tooth lock washer	4	12
B		5/16"-18x3/4" machine screw	2	6
C		5/16"-18 hex nut	2	6
D		8-32x7/16" Sems screw	16	24
E		M4x.07-20 hex bolt	16	24
F		M4x.07 Keps nut	16	24
G		Rubber bumper, self-adhesive	8	12
H		Cotter pin	6	14
I		Tie wrap pad, self-adhesive	4	6
J		Tie wrap	4	6
K		10-32 hex nut	4	4

Mounting instructions

Before mounting a sign, remove power from the sign.



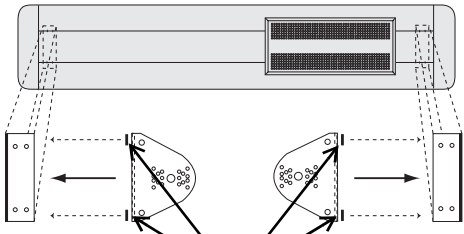
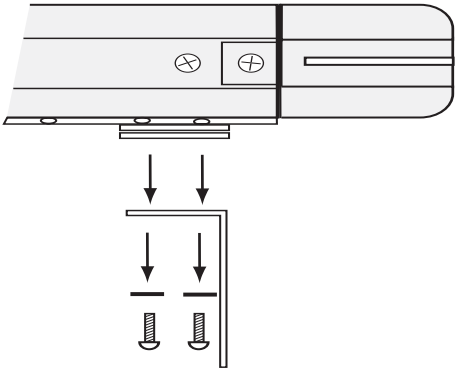
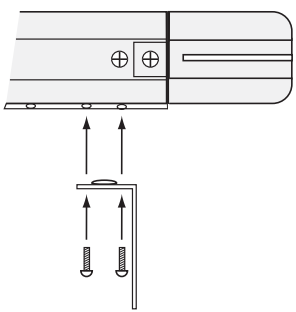
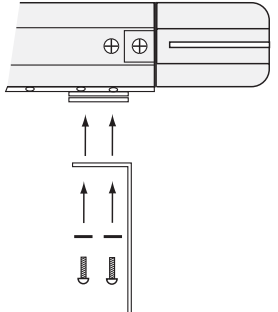
NOTE: Alpha signs are for *indoor use only* and should not be continuously exposed to direct sunlight.

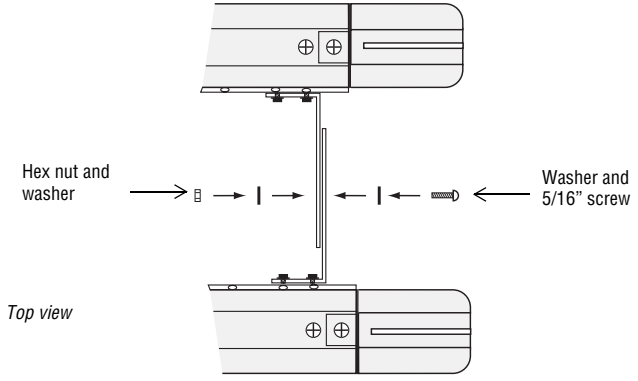
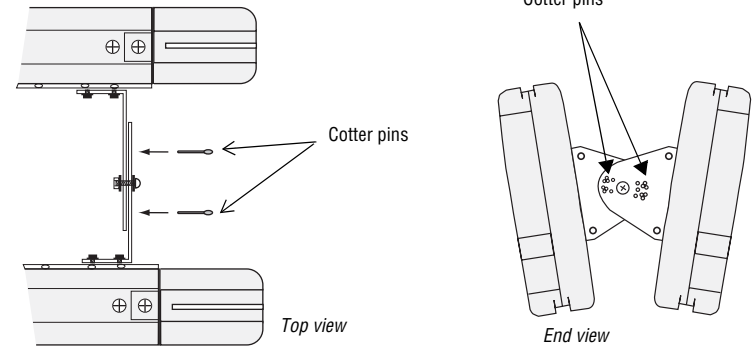
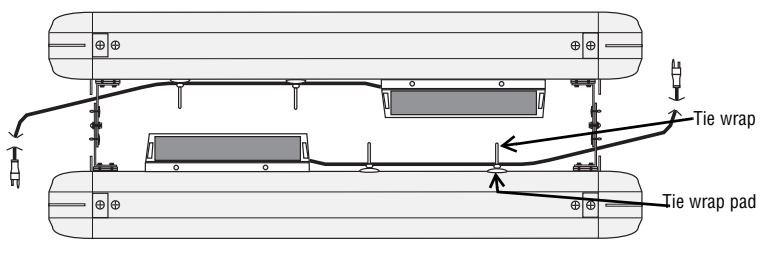
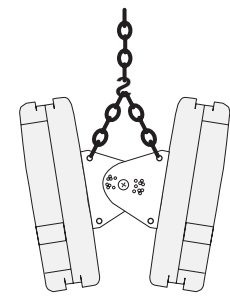
NOTE: Mounting hardware that is used to hang or suspend a sign must be capable of supporting at least 500 pounds.

In the following lists, locate your series and sign model and the mounting formation, and then follow the instructions.

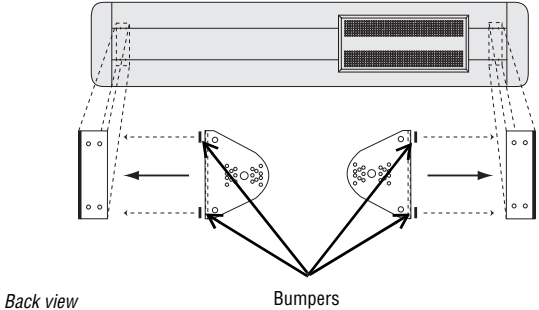
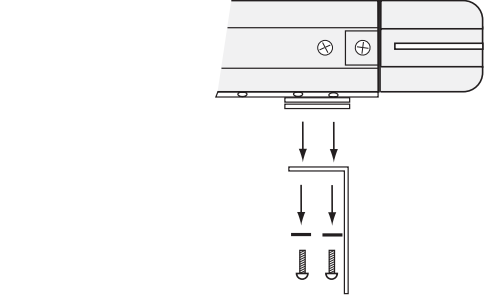
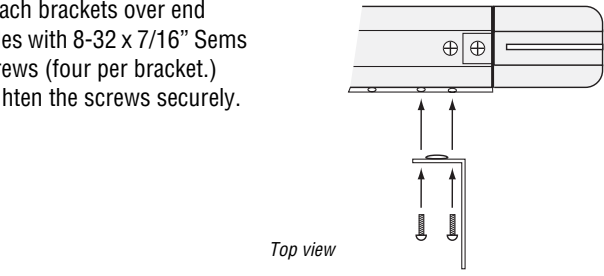
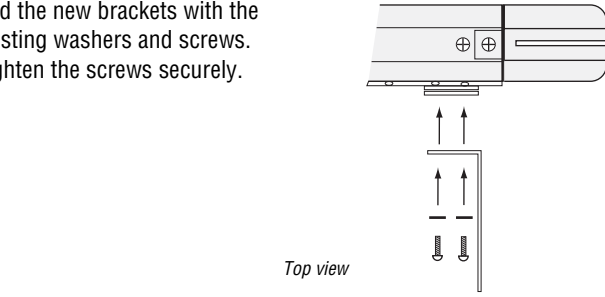
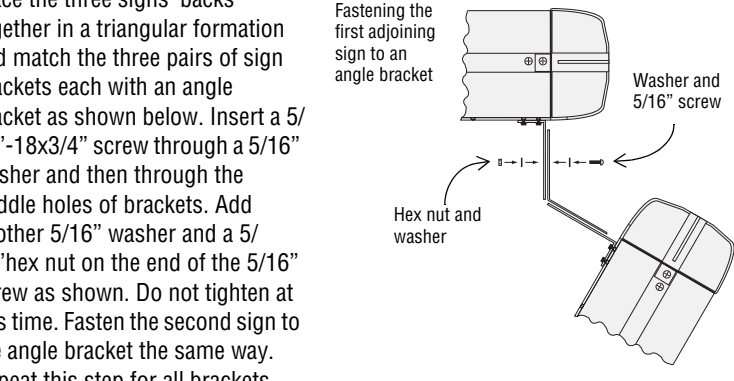
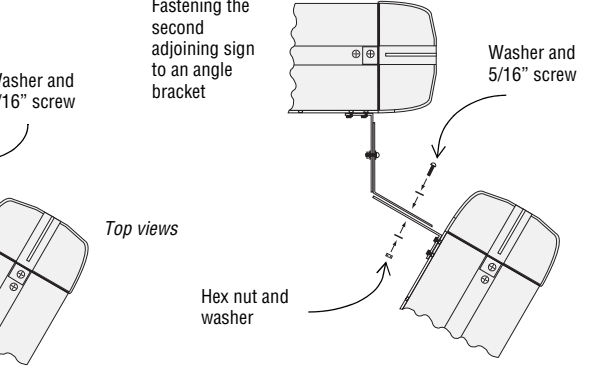
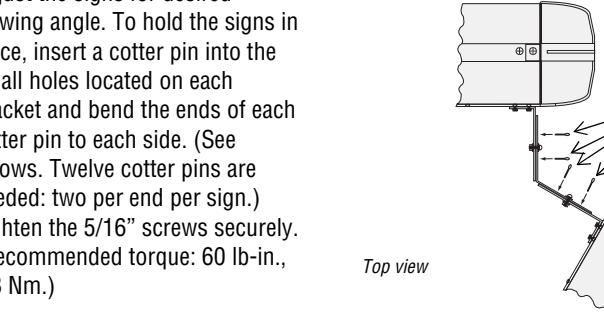
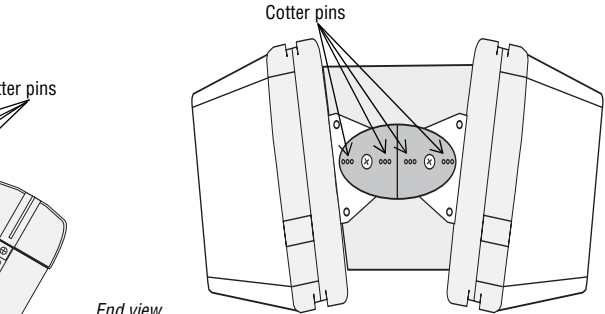
4000 Series: Two-sided

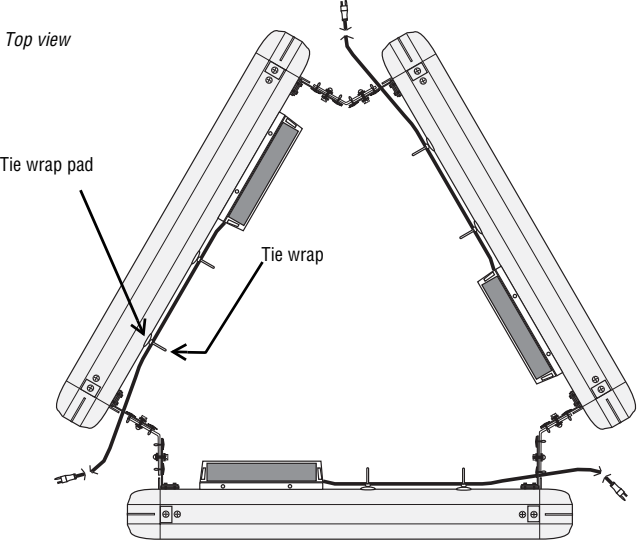
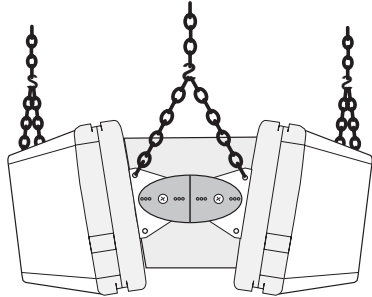
NOTE: Not valid for Alpha 4080 sign, due to size constraints.

Step	Two-sided 4000 Series	Two-sided 4000 NEMA 2
1	<p>Place two self-adhesive rubber “bumpers” on the back of each sign bracket, as shown below. The bumpers should end up between the sign bracket and the sign.</p>  <p style="text-align: center;">Bumpers</p> <p><i>Back view</i></p>	<p>Remove the screws, washers, and existing brackets. Leave the two shims on the sign case.</p>  <p><i>Top view</i></p>
2	<p>Attach brackets over end holes with 8-32 x 7/16” Sems screws (four per bracket.) Tighten the screws securely.</p>  <p><i>Top view</i></p>	<p>Add the new brackets with the existing washers and screws. Tighten the screws securely.</p>  <p><i>Top view</i></p>
3	<p>Repeat above steps for the second sign, if not already done.</p>	<p>Repeat above steps for the second sign, if not already done.</p>

Step	Two-sided 4000 Series	Two-sided 4000 NEMA 2
4	<p>Place the two signs back-to-back and match the two sets of opposing brackets. Insert a 5/16" -18x3/4" screw through a 5/16" washer. Insert through the middle holes of brackets. Add another 5/16" washer and a 5/16" hex nut on the end of the 5/16" screw as shown. Do not tighten them at this time.</p>	 <p>Hex nut and washer → → ← ← ← Washer and 5/16" screw</p> <p>Top view</p>
5	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket, and bend the ends of each cotter pin to each side. (See arrows. Four cotter pins are needed: two per end.) Tighten the 5/16" hex nut securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>	 <p>Cotter pins</p> <p>Top view</p> <p>End view</p>
6	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown here. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>	 <p>Tie wrap</p> <p>Tie wrap pad</p>
7	<p>Use chains* (not supplied) to hang the signs from a ceiling.</p> <p>* NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (226.8 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>	 <p>End view</p>

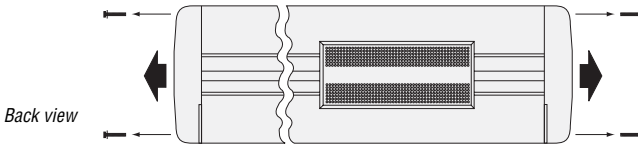
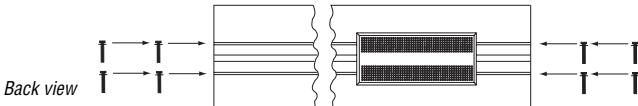
4000 Series: Three-sided

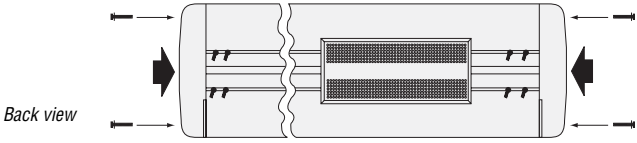
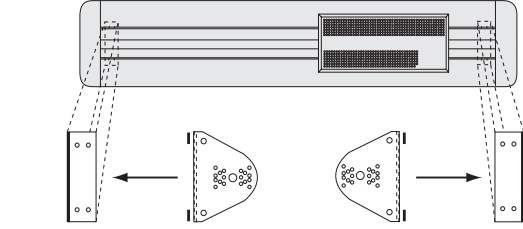
Step	Three-sided 4000 Series	Three-sided 4000 NEMA 2
1	<p>Place two self-adhesive rubber “bumpers” on the back of each sign bracket, as shown below. The bumpers should end up between the sign bracket and the sign.</p> 	<p>Remove the screws, washers, and existing brackets. Leave the two shims on the sign case.</p> 
2	<p>Attach brackets over end holes with 8-32 x 7/16” Sems screws (four per bracket.) Tighten the screws securely.</p> 	<p>Add the new brackets with the existing washers and screws. Tighten the screws securely.</p> 
3	<p>Repeat above steps for the second and third signs, if not already done.</p>	<p>Repeat above steps for the second and third signs, if not already done.</p>
4	<p>Place the three signs’ backs together in a triangular formation and match the three pairs of sign brackets each with an angle bracket as shown below. Insert a 5/16”-18x3/4” screw through a 5/16” washer and then through the middle holes of brackets. Add another 5/16” washer and a 5/16” hex nut on the end of the 5/16” screw as shown. Do not tighten at this time. Fasten the second sign to the angle bracket the same way. Repeat this step for all brackets.</p> 	<p>Fastening the second adjoining sign to an angle bracket</p> 
5	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket and bend the ends of each cotter pin to each side. (See arrows. Twelve cotter pins are needed: two per end per sign.) Tighten the 5/16” screws securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p> 	<p>Cotter pins</p> 

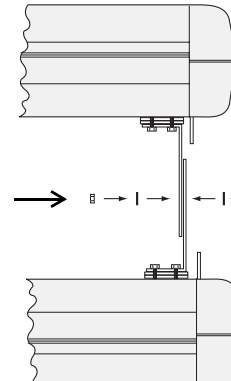
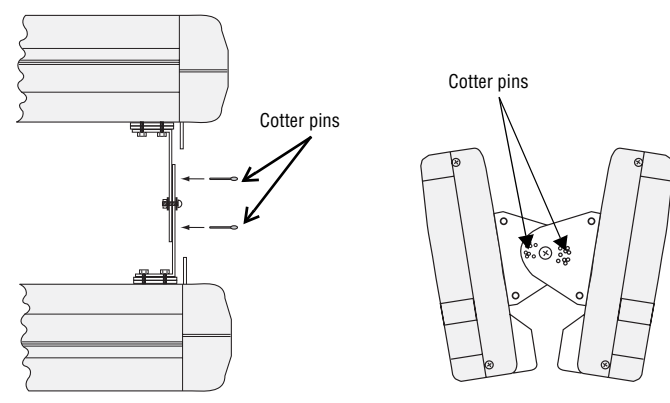
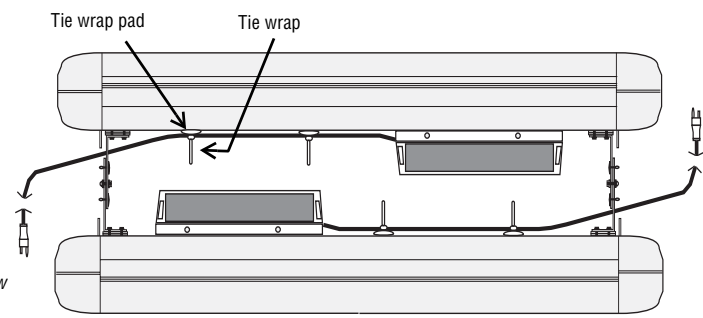
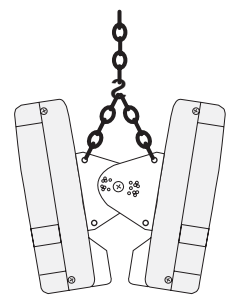
Step	Three-sided 4000 Series	Three-sided 4000 NEMA 2
6	<p>Arrange the cables between the signs. Hold them in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>	 <p><i>Top view</i></p> <p>Tie wrap pad</p> <p>Tie wrap</p>
7	<p>Use chains* (not supplied) to hang the signs from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (226.8 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>	 <p><i>End view</i></p>

7000 Series: Two-sided

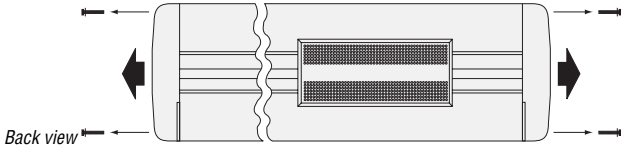
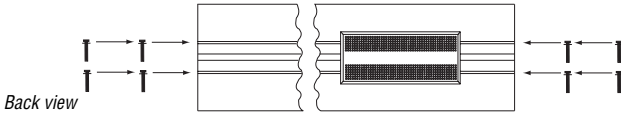
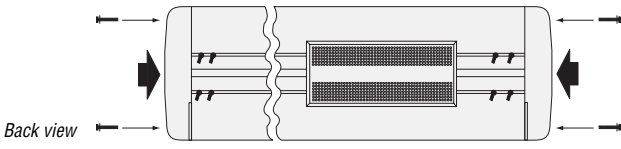
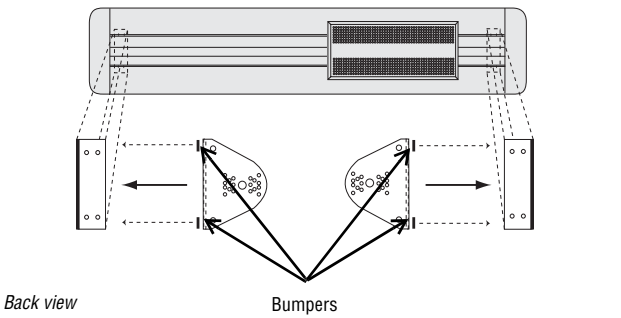
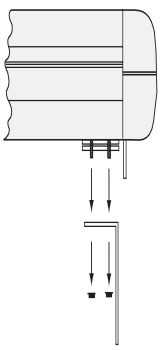
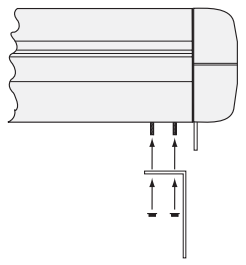
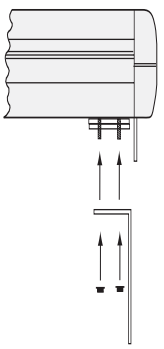
NOTE: Not valid for Alpha 7080 sign, due to size constraints.

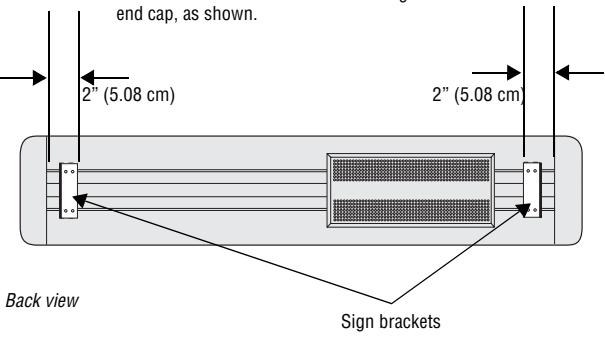
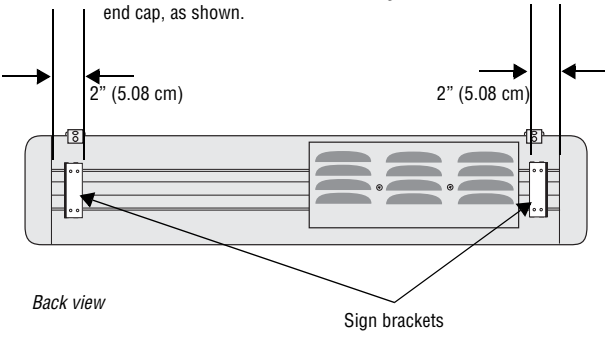
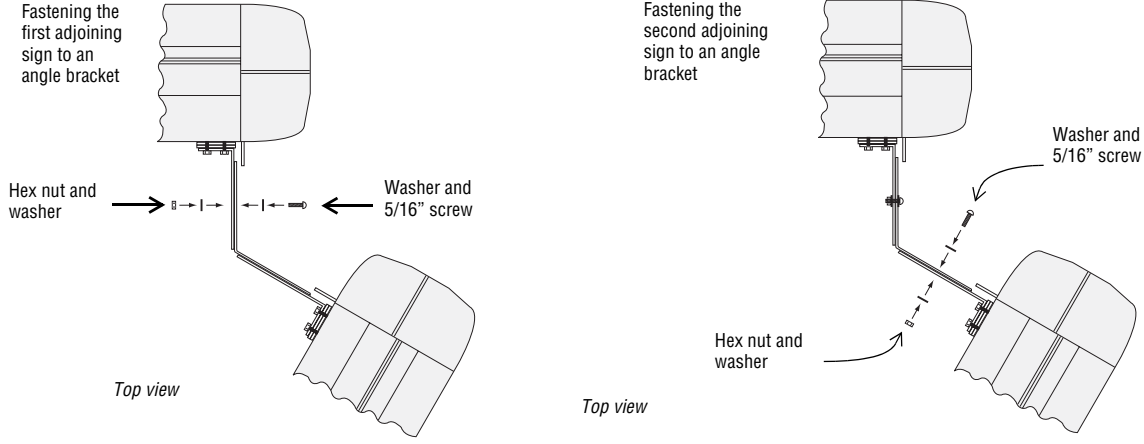
Step	Two-sided 7000 Series	Two-sided 7000 Series NEMA 2
1	<p>Remove the end cap from each side of the sign by unscrewing the two screws that hold each end cap to the sign.</p>  <p><i>Back view</i></p>	<p>No action necessary at this step</p>
2	<p>Insert the heads of two M4x.07-20 hex bolts into <i>each</i> "channel" on <i>each</i> end (eight bolts total.)</p>  <p><i>Back view</i></p>	<p>No action necessary at this step</p>

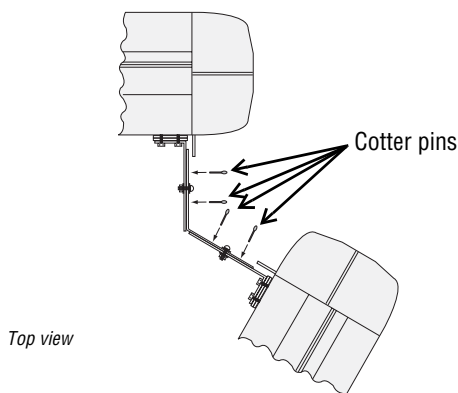
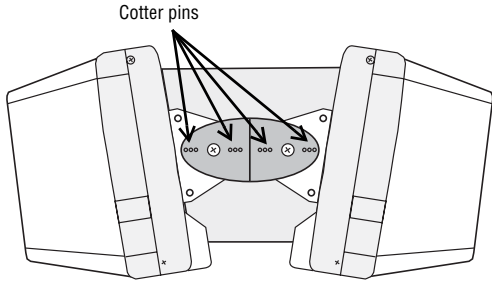
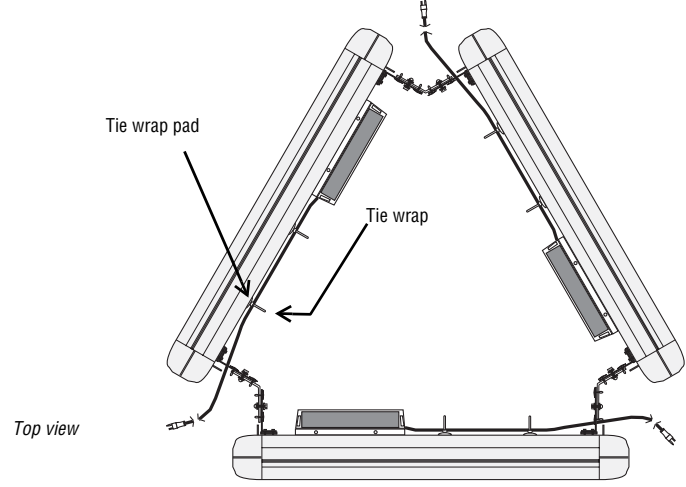
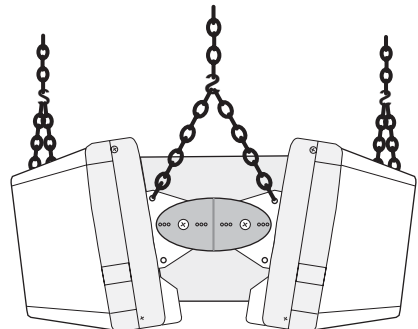
Step	Two-sided 7000 Series	Two-sided 7000 Series NEMA 2
3	<p>Replace the end caps and screws.</p>  <p>Back view</p>	<p>No action necessary at this step</p>
4	<p>Place two self-adhesive rubber “bumpers” on the back of each sign bracket, as shown below. The bumpers should end up between the sign bracket and the sign.</p> 	<p>Remove the Keps nuts (those with the attached washer) and the bracket. Save the nuts. Leave the two shims on the sign case.</p>
5	<p>Attach a bracket by sliding over protruding hex bolts. Screw on the M4x.07 Keps nuts (those with an attached washer), but leave them loose for now.</p>	<p>Add the new bracket, affixing with the saved nuts removed in the previous step. Screw the Keps nuts back on, but leave them loose for now.</p>
6		
7	<p>Tighten the screws securely. (Recommended torque: 20 lb-in., 2.3 Nm.)</p>	<p>Tighten the screws securely. (Recommended torque: 20 lb-in., 2.3 Nm.)</p>
8	<p>Repeat all above steps for the second sign, if not already done.</p>	<p>Repeat all above steps for the second sign, if not already done.</p>

Step	Two-sided 7000 Series	Two-sided 7000 Series NEMA 2
9	<p>Place the two signs back-to-back and match the two sets of opposing brackets. Insert a 5/16"-18x3/4" machine screw through a 5/16" external tooth lock washer. Insert through the middle holes of brackets. Add another 5/16" washer and a 5/16"-18 hex nut on the end of the 5/16" screw as shown. Do not tighten at this time.</p>	 <p>Hex nut and washer → ← Washer and 5/16" screw</p> <p>Top view</p>
10	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket, and bend the ends of each cotter pin to each side. (See arrows. Four cotter pins are needed: two per end.) Tighten the screw securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>	 <p>Cotter pins</p> <p>Top view</p> <p>End view</p>
11	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram here. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>	 <p>Tie wrap pad</p> <p>Tie wrap</p> <p>Top view</p>
12	<p>Use chains* (not supplied) to hang the sign from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (113.3 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>	 <p>End view</p>

7000 Series: Three-sided

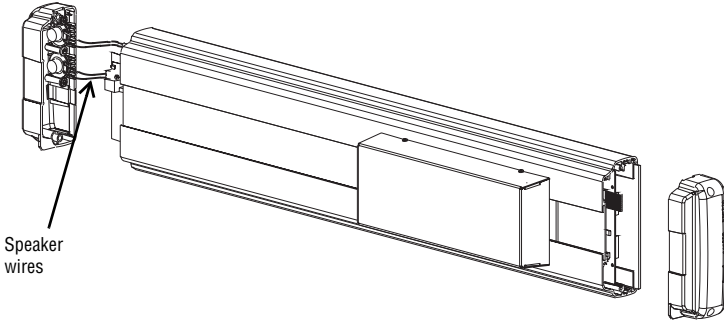
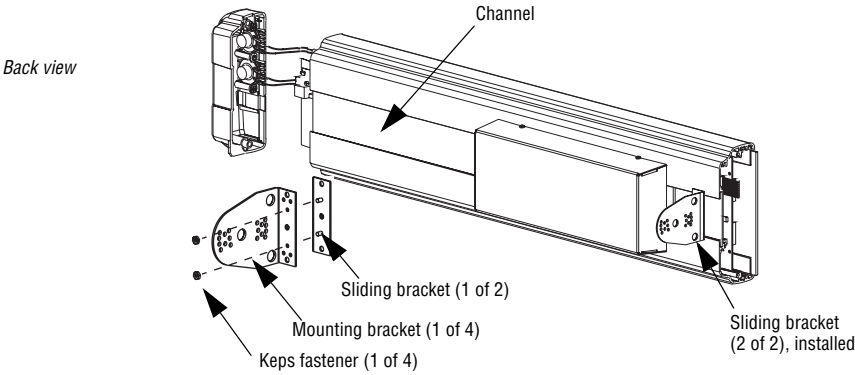
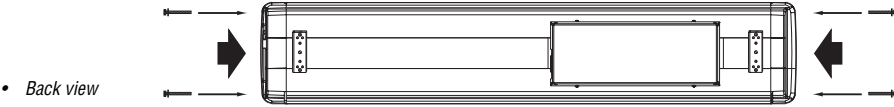
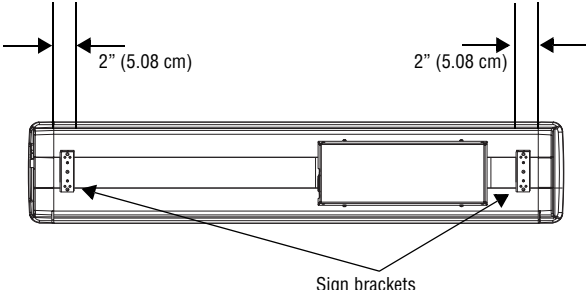
Step	Three-sided 7000 Series	Three-sided 7000 Series NEMA 2
1	<p>Remove the end cap from each side of the sign by unscrewing the two screws that hold each end cap to the sign:</p>  <p><i>Back view</i></p>	<p>No action necessary at this step</p>
2	<p>Insert the heads of 2 M4x.07 hex bolts into <i>each</i> "channel" on <i>each</i> end (eight screws total.)</p>  <p><i>Back view</i></p>	<p>No action necessary at this step</p>
3	<p>Replace the end caps and screws.</p>  <p><i>Back view</i></p>	<p>No action necessary at this step</p>
4	<p>Place two self-adhesive rubber "bumpers" on the back of each sign bracket, as shown below. The bumpers should end up between the sign bracket and the sign.</p>  <p><i>Back view</i> Bumpers</p>	<p>Remove the Keps nuts (with attached washer) and the bracket. Save the nuts. Leave the two shims on the sign case.</p>  <p><i>Top view</i></p>
5	<p>Attach a bracket by sliding over the protruding hex bolts. Screw on the M4x.07 Keps nuts (those with attached washer), but leave them loose for now.</p>  <p><i>Top view</i></p>	<p>Add the new bracket, affixing with the saved Keps nuts removed in the previous step.</p>  <p><i>Top view</i></p>

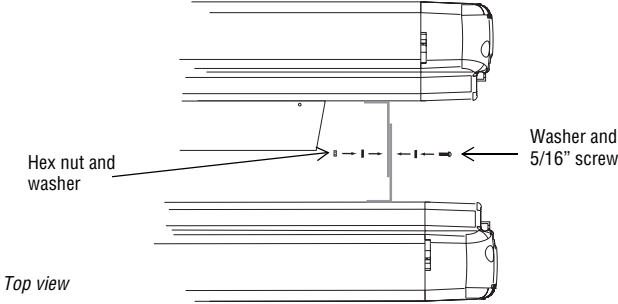
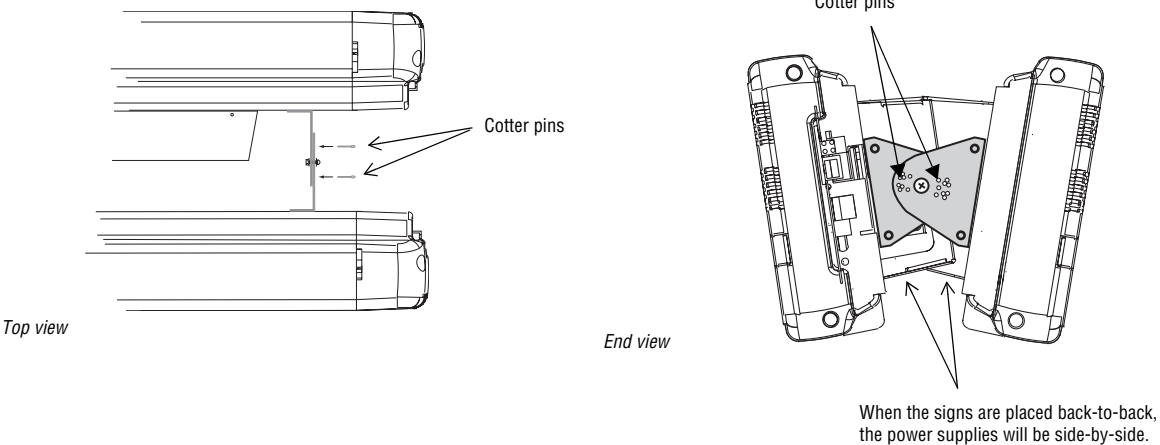
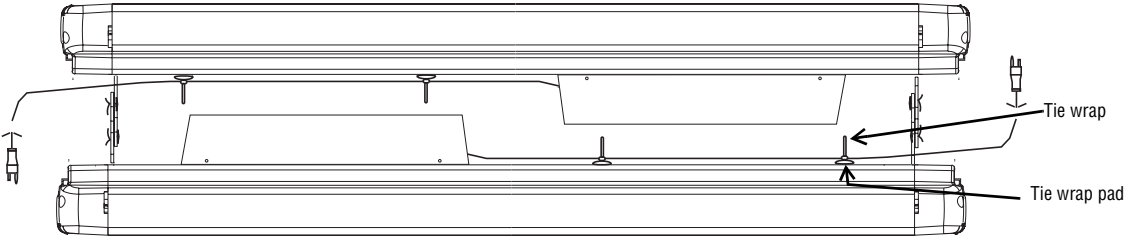
Step	Three-sided 7000 Series	Three-sided 7000 Series NEMA 2
6	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown.</p> 	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown.</p> 
7	<p>Tighten the screws securely. (Recommended torque: 20 lb-in., 2.3 Nm.)</p>	<p>Tighten the screws securely. (Recommended torque: 20 lb-in., 2.3 Nm.)</p>
8	<p>Repeat all above steps for the second and third signs, if not already done.</p>	<p>Repeat all above steps for the second and third signs, if not already done.</p>
9	<p>Place the three signs' backs together in a triangular formation and match the three pairs of sign brackets each with an angle bracket as shown below.</p> <p>Insert a 5/16"-18x3/4" machine screw through a 5/16" external tooth lock washer. Insert through the middle holes of brackets. Add another 5/16"-18 washer and a 5/16" hex nut on the end of the 5/16" screw as shown. Do not tighten at this time. Fasten the second sign to the angle bracket the same way. Repeat this step for all brackets.</p> 	

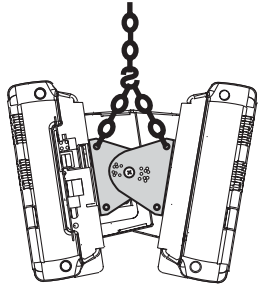
Step	Three-sided 7000 Series	Three-sided 7000 Series NEMA 2
10	<p>Adjust the signs for the desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket and bend the ends of each cotter pin to each side. (See arrows. Twelve cotter pins are needed: two per end per sign.) Tighten the screws securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>  <p><i>Top view</i></p>	 <p><i>End view</i></p>
11	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram below. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>  <p><i>Top view</i></p>	
12	<p>Use chains* (not supplied) to hang the sign from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (113.3 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>	 <p><i>End view</i></p>

AlphaPremiere 4000 Series: Two-sided

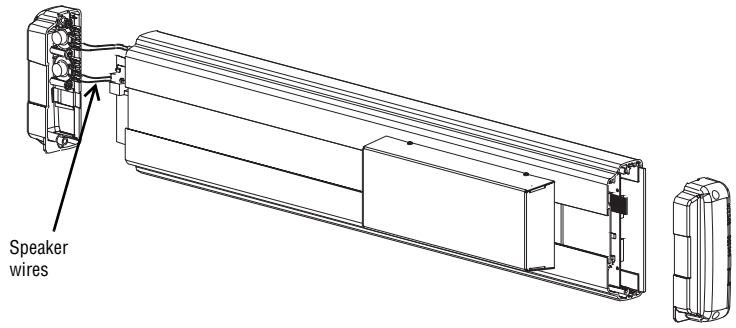
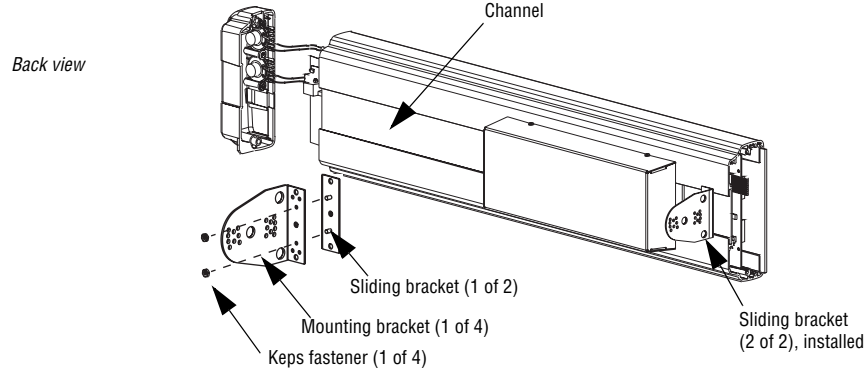
NOTE: Not valid for AlphaPremiere 4080 sign, due to size constraints.


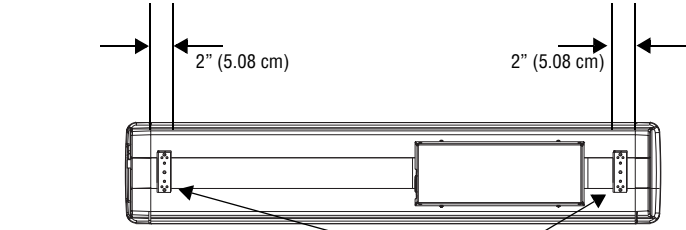
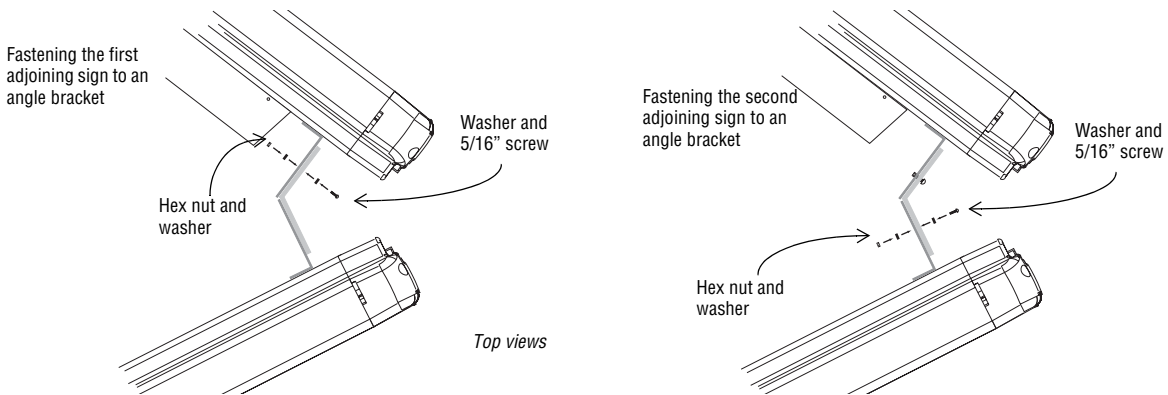
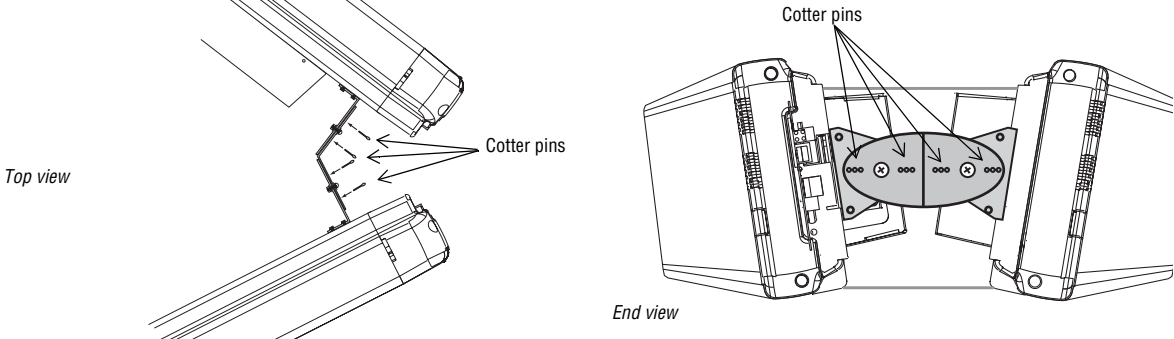
Step	Two-sided AlphaPremiere 4000
1	<p>Remove the two screws from each end cap.</p> <p>NOTE: There are speaker wires behind the left end cap (when facing the back of the sign), so be careful to keep one hand on the end cap—continuing to hold it in place—after removing the screws. Pull the end caps away slowly, so you don't accidentally snag the wiring or damage other components near the end cap.</p> 
2	<p>When the end caps have been removed, place each sliding bracket into the channel in the back of the sign. Use two (2) Keps fasteners to attach a mounting bracket to each sliding bracket. Do not tighten the Keps fasteners yet.</p> 
3	<p>Replace the end caps and screws. Tighten the screws securely. (Recommended torque: 24 lb-in., 2.7 Nm)</p> 
4	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown. Tighten the Keps fasteners to 24 lb-in., 2.7 Nm.</p> 

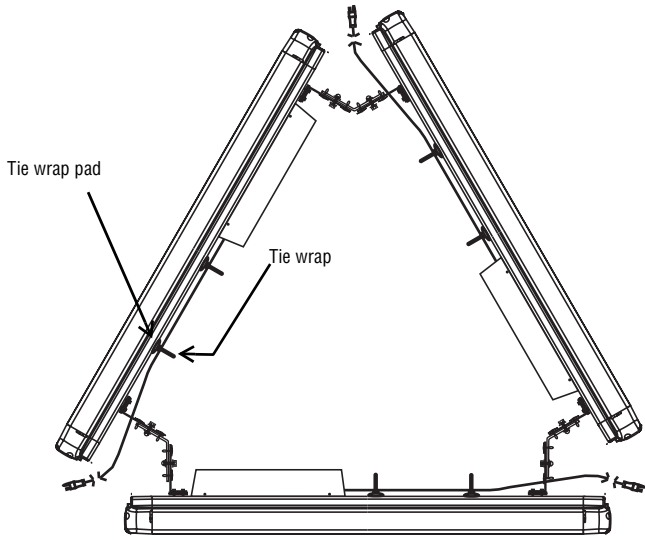
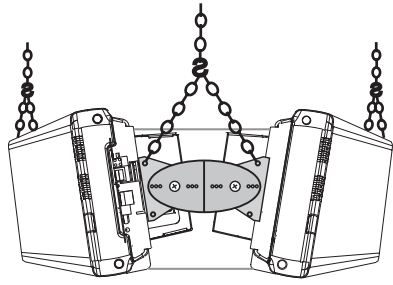
Step	Two-sided AlphaPremiere 4000
5	Repeat above steps for the second sign, if not already done.
6	<p>Place the two signs back-to-back and match the two sets of opposing brackets. Insert a 5/16"-18x3/4" screw through a 5/16" washer. Insert through the middle holes of brackets. Add another 5/16" washer and a 5/16" hex nut on the end of the 5/16" screw as shown. Do not tighten them at this time.</p> 
7	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket, and bend the ends of each cotter pin to each side. (See arrows. Four cotter pins are needed: two per end.) Tighten the 5/16" hex nut securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p> 
8	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown here. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p> 

Step	Two-sided AlphaPremiere 4000
9	<p>Use chains* (not supplied) to hang the signs from a ceiling.</p> <p>* NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (226.8 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>  <p style="text-align: center;"><i>End view</i></p>

AlphaPremiere 4000 Series: Three-sided

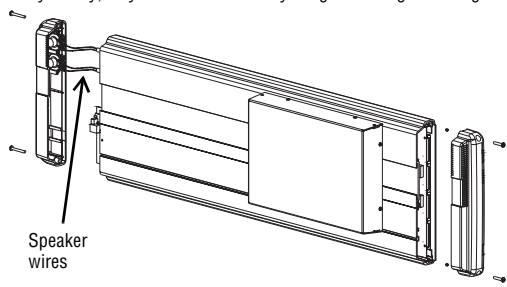
Step	Three-sided AlphaPremiere 4000 Series
1	<p>Remove the two screws from each end cap.</p> <p>NOTE: There are speaker wires behind the left end cap (when facing the back of the sign), so be careful to keep one hand on the end cap—continuing to hold it in place—after removing the screws. Pull the end caps away slowly, so you don't accidentally snag the wiring or damage other components near the end cap.</p>  <p style="text-align: center;"><i>Speaker wires</i></p>
2	<p>When the end caps have been removed, place each sliding bracket into the channel in the back of the sign. Use two (2) Keps fasteners to attach a mounting bracket to each sliding bracket. Do not tighten the Keps fasteners yet.</p>  <p style="text-align: center;"><i>Back view</i></p>

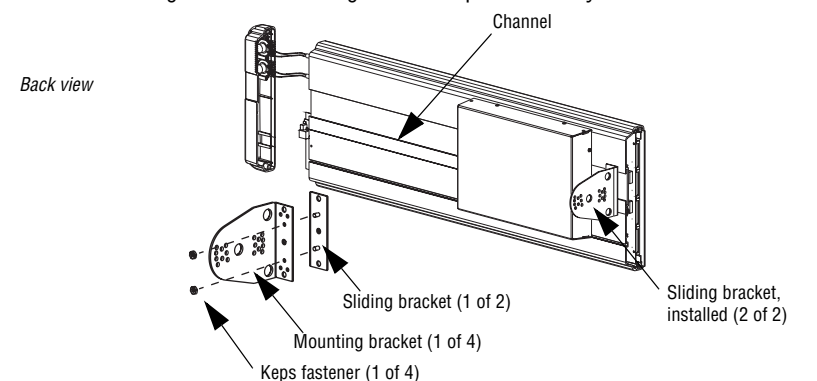
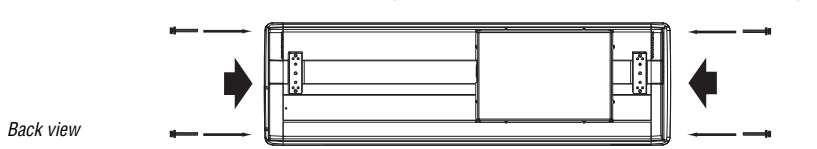
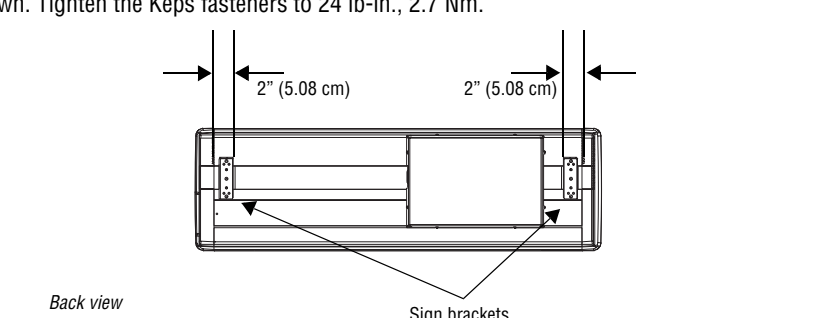
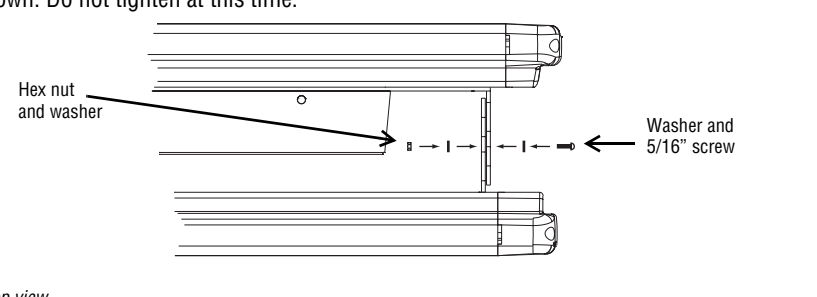
Step	Three-sided AlphaPremiere 4000 Series
3	<p>Replace the end caps and screws. Tighten the screws securely. (Recommended torque: 24 lb-in., 2.7 Nm)</p>  <p>Back view</p>
4	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown. Tighten the Keps fasteners to 24 in-lb (2.7 Nm).</p>  <p>Back view</p> <p>Sign brackets</p>
5	<p>Repeat above steps for the second and third signs, if not already done.</p>
6	<p>Place the three signs' backs together in a triangular formation and match the three pairs of sign brackets each with an angle bracket as shown below. Insert a 5/16"-18x3/4" screw through a 5/16" washer and then through the middle holes of brackets. Add another 5/16" washer and a 5/16" hex nut on the end of the 5/16" screw as shown. Do not tighten at this time. Fasten the second sign to the angle bracket the same way. Repeat this step for all brackets.</p>  <p>Fastening the first adjoining sign to an angle bracket</p> <p>Fastening the second adjoining sign to an angle bracket</p> <p>Washer and 5/16" screw</p> <p>Hex nut and washer</p> <p>Top views</p>
7	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket and bend the ends of each cotter pin to each side. (See arrows. Twelve cotter pins are needed: two per end per sign.) Tighten the 5/16" screws securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>  <p>Top view</p> <p>End view</p> <p>Cotter pins</p>

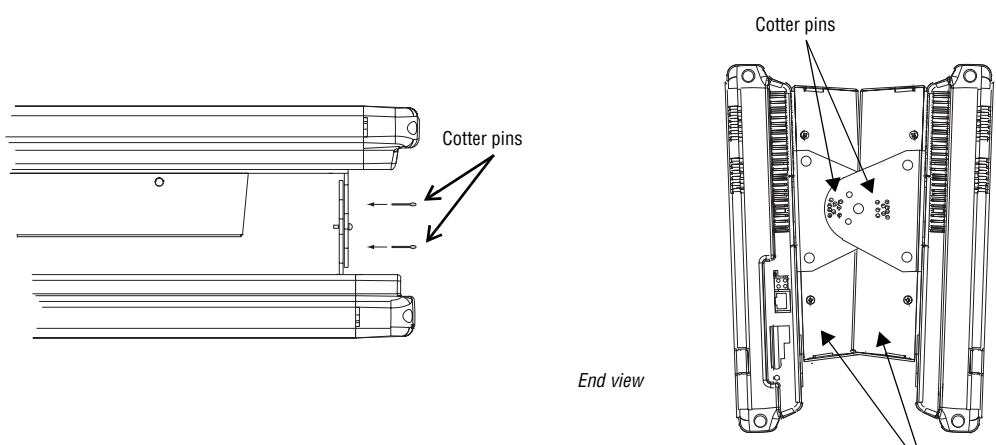
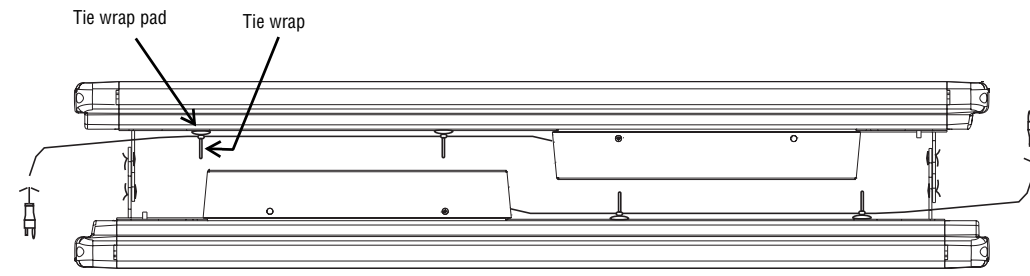
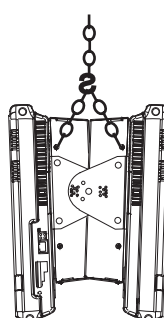
Step	Three-sided AlphaPremiere 4000 Series
8	<p>Arrange the cables between the signs. Hold them in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>  <p style="text-align: center;">Tie wrap pad Tie wrap</p>
9	<p>Use chains* (not supplied) to hang the signs from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (226.8 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>  <p style="text-align: center;">End view</p>

AlphaPremiere 9000 Series: Two-sided

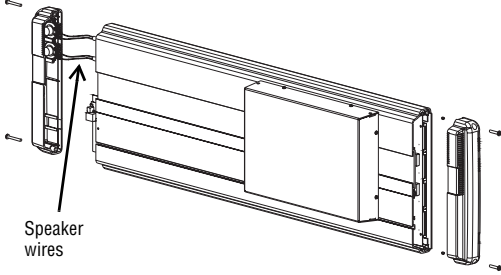
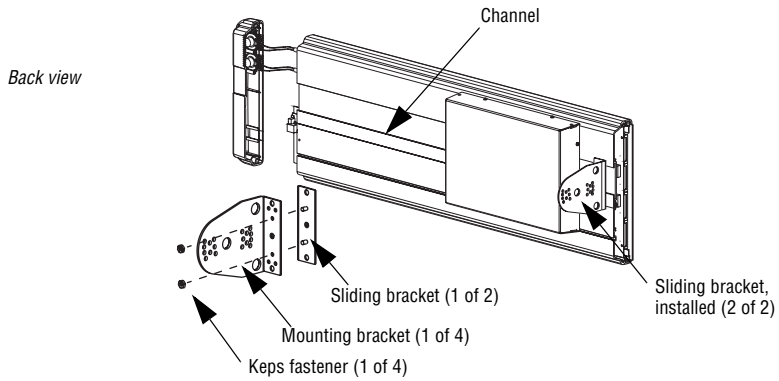
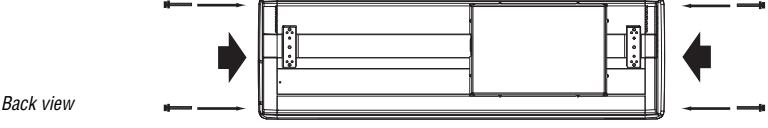
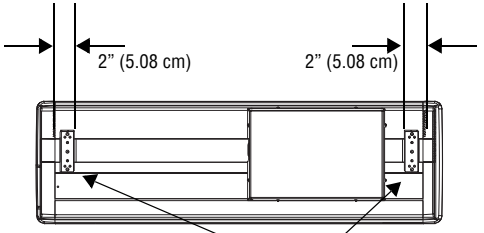
NOTE: Not valid for AlphaPremiere 9080 sign, due to size constraints.

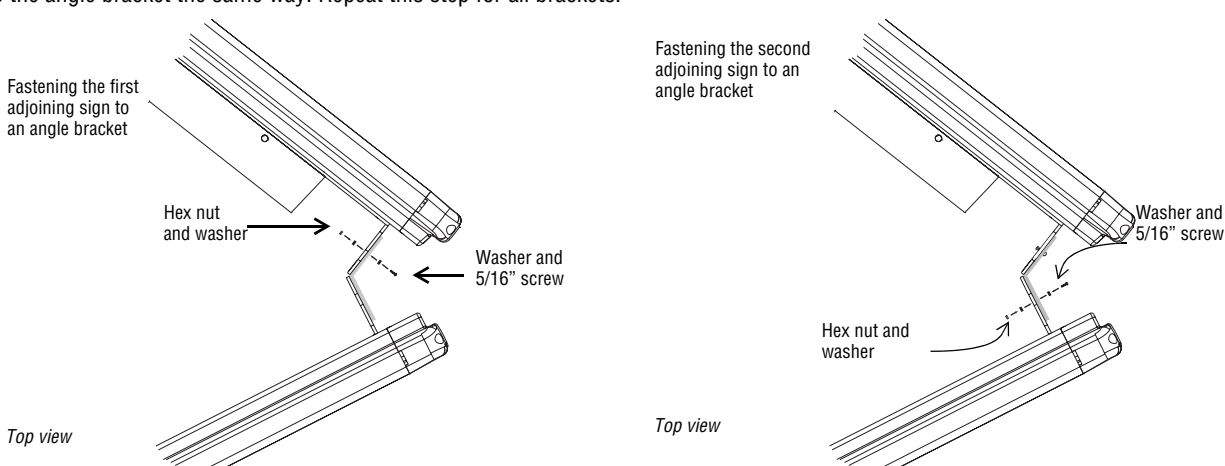
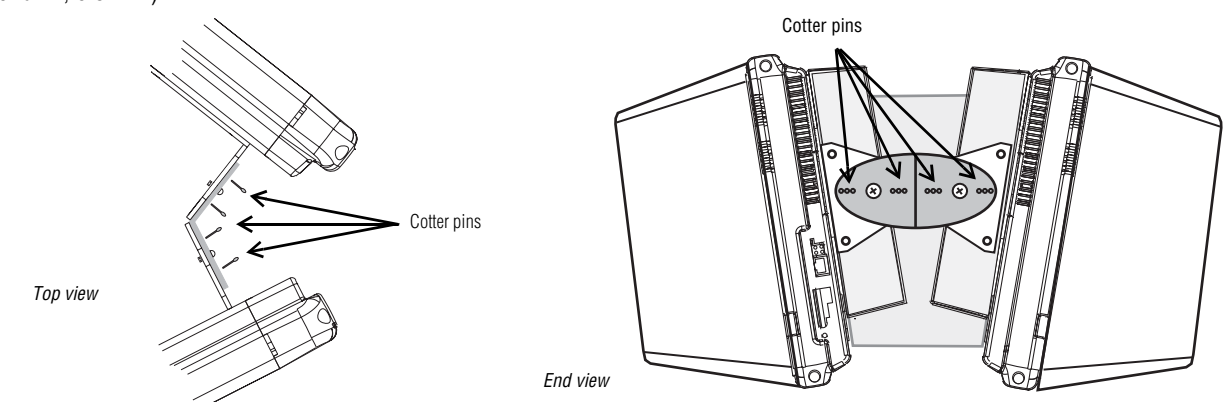
Step	Two-sided AlphaPremiere 9000 Series
1	<p>Remove the two screws from each end cap.</p> <p>NOTE: There are speaker wires behind the left end cap (when facing the back of the sign), so be careful to keep one hand on the end cap—continuing to hold it in place—after removing the screws. Pull the end caps away slowly, so you don't accidentally snag the wiring or damage other components near the end cap.</p>  <p style="text-align: center;">Speaker wires</p>

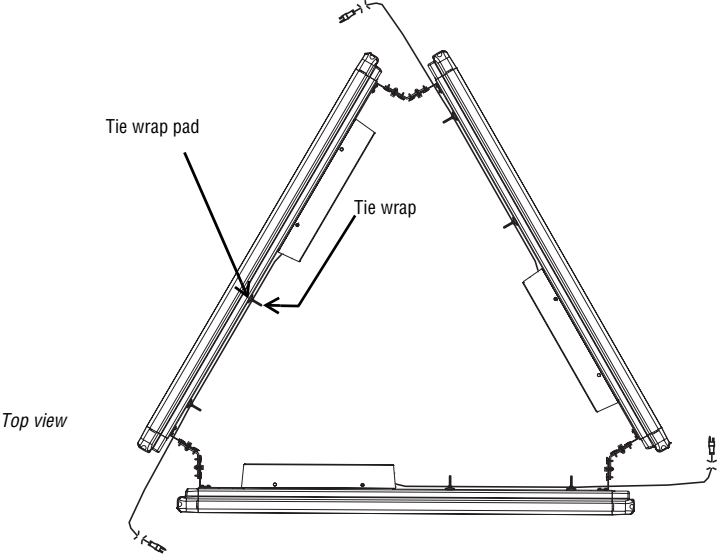
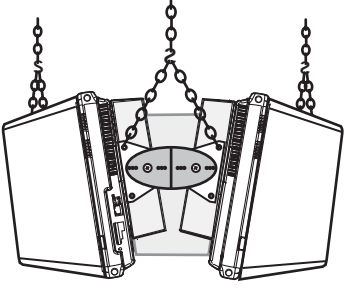
Step	Two-sided AlphaPremiere 9000 Series
2	<p>When the end caps have been removed, place each sliding bracket into the channel in the back of the sign. Use two (2) Keps fasteners to attach a mounting bracket to each sliding bracket. Do not tighten the Keps fasteners yet.</p> 
3	<p>Replace the end caps and screws. Tighten the screws securely. (Recommended torque: 14 lb-in., 1.58 Nm.)</p> 
4	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown. Tighten the Keps fasteners to 24 lb-in., 2.7 Nm.</p> 
5	<p>Repeat all above steps for the second sign.</p>
6	<p>Place the two signs back-to-back and match the two sets of opposing brackets. Insert a 5/16"-18x3/4" machine screw through a 5/16" external tooth lock washer. Insert through the middle holes of brackets. Add another 5/16" washer and a 5/16"-18 hex nut on the end of the 5/16" screw as shown. Do not tighten at this time.</p> 

Step	Two-sided AlphaPremiere 9000 Series
7	<p>Adjust the signs for desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket, and bend the ends of each cotter pin to each side. (See arrows. Four cotter pins are needed: two per end.) Tighten the screw securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>  <p><i>Top view</i> <i>End view</i></p> <p style="text-align: right;">Cotter pins</p> <p style="text-align: right;">When the signs are placed back-to-back, the power supplies will be side-by-side.</p>
8	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram here. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>  <p><i>Top view</i></p> <p style="margin-left: 100px;">Tie wrap pad Tie wrap</p>
9	<p>Use chains* (not supplied) to hang the sign from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (113.3 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>  <p style="text-align: center;"><i>End view</i></p>

AlphaPremiere 9000 Series: Three-sided

Step	Three-sided 9000 Series
1	<p>Remove the two screws from each end cap.</p> <p>NOTE: There are speaker wires behind the left end cap (when facing the back of the sign), so be careful to keep one hand on the end cap—continuing to hold it in place—after removing the screws. Pull the end caps away slowly, so you don't accidentally snag the wiring or damage other components near the end cap.</p>  <p>Speaker wires</p>
2	<p>When the end caps have been removed, place each sliding bracket into the channel in the back of the sign. Use two (2) Keps fasteners to attach a mounting bracket to each sliding bracket. Do not tighten the Keps fasteners yet.</p>  <p>Back view</p> <p>Channel</p> <p>Sliding bracket (1 of 2)</p> <p>Sliding bracket, installed (2 of 2)</p> <p>Mounting bracket (1 of 4)</p> <p>Keps fastener (1 of 4)</p>
3	<p>Replace the end caps and screws. Tighten the screws securely. (Recommended torque: 14 lb-in., 1.58 Nm.)</p>  <p>Back view</p>
4	<p>Space the two brackets on the sign evenly from the ends and adjust them with the inside edges of the brackets at 2" from the inside edge of the end cap, as shown. Tighten the Keps fasteners to 24 lb-in., 2.7 Nm.</p>  <p>2" (5.08 cm)</p> <p>2" (5.08 cm)</p> <p>Back view</p> <p>Sign brackets</p>
5	<p>Repeat all above steps for the second and third signs, if not already done.</p>

Step	Three-sided 9000 Series
6	<p>Place the three signs' backs together in a triangular formation and match the three pairs of sign brackets each with an angle bracket as shown below.</p> <p>Insert a 5/16"-18x3/4" machine screw through a 5/16" external tooth lock washer. Insert through the middle holes of brackets. Add another 5/16"-18 washer and a 5/16" hex nut on the end of the 5/16" screw as shown. Do not tighten at this time. Fasten the second sign to the angle bracket the same way. Repeat this step for all brackets.</p>  <p>Fastening the first adjoining sign to an angle bracket</p> <p>Fastening the second adjoining sign to an angle bracket</p> <p>Hex nut and washer</p> <p>Washer and 5/16" screw</p> <p>Washer and 5/16" screw</p> <p>Hex nut and washer</p> <p>Top view</p> <p>Top view</p>
7	<p>Adjust the signs for the desired viewing angle. To hold the signs in place, insert a cotter pin into the small holes located on each bracket and bend the ends of each cotter pin to each side. (See arrows. Twelve cotter pins are needed: two per end per sign.) Tighten the screws securely. (Recommended torque: 60 lb-in., 6.8 Nm.)</p>  <p>Cotter pins</p> <p>Cotter pins</p> <p>Top view</p> <p>End view</p>

Step	Three-sided 9000 Series
8	<p>Arrange the cables between the signs. Hold in place with two tie wraps per sign. To do this, remove the backing from a tie wrap pad and place the pad in position as shown in the diagram below. Then slide a tie wrap through the tie wrap pad, around the cables and into the other end of the tie wrap.</p>  <p><i>Top view</i></p>
9	<p>Use chains* (not supplied) to hang the sign from a ceiling.</p> <p>*NOTE: Choose chain and a mounting system capable of supporting a minimum of 500 pounds (113.3 kg).</p> <p>NOTE: Keep a minimum 1.0-inch (2.54 cm) clearance on all sides of the signs for adequate ventilation.</p>  <p><i>End view</i></p>

