



Installation Manual V3.1

SAI Series Independent Quartz Clock



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SAI Independent Quartz Clocks - Table of Contents

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Important Safety Instructions



WARNING

PHYSICAL INJURY HAZARD



- If you are standing on an object while installing your clock, make sure that the object can support your weight, and will not sway or move as you stand on it.
- Take precautions to avoid injury by potential safety hazards near the point of installation including (but not limited to) heavy machinery, sharp objects, hot surfaces, or exposed cables carrying an electric current.
- Follow all mounting instructions exactly as stated in this manual. Failure to do so may result in the device falling off the point of installation.
- Packaging materials and mounting items include plastic bags and small pieces, which pose a suffocation hazard to young children.

NOTICE

- Do not install the clock outdoors. Damage to the clock if placed outdoors voids the warranty.
- Do not hang objects from the clock or clock mounting parts. The clocks are not designed to support the weight of other objects.
- The clock face and housing may be cleaned with a damp cloth or disinfectant. Test other cleaning products on a small part of the clock housing before attempting to use on the rest of the clock. Avoid bleach and chemicals known to dissolve plastics.

Identify Your Clock

A the part number of your clock is included with the clock's order invoice.

If your part number begins with SAI-1, you own a METAL clock

If your part number begins with SAI-4, you own a SLIMLINE or SQUARE clock

If your part number begins with SAI-5 you own an ALUMINUM clock

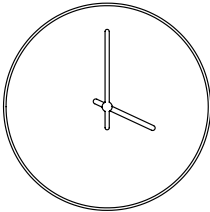
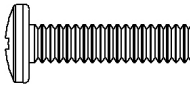


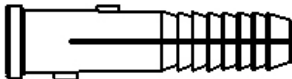
If your part number begins with SAI-6 you own a WOOD clock

Example part numbers:

SAI-1BS-16R-1	(METAL clock)
SAI-4BS-12S-4	(SQUARE clock)
SAI-4BS-12R-4	(SLIMLINE clock)
SAI-5AS-09R-1	(ALUMINUM clock)
SAI-6DS-12R-2	(WOOD clock)

Wall Mount Installation - Round Metal Clock

Included in Package

Description	Quantity	Picture
SAI round original analog clock	1	
Included in Mounting Kit (A-MK-QS-1E)		
#6-32x1/2 screw	2 (not used)	
M4-0.5x10	2 (not used)	
#10x1.5 Self-tapping screw	2	
Wall anchor	2	

PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a 1/4 inch drill, and one AA battery.

If any of the items listed in the wiring kit are missing, you may contact your dealer and order a replacement kit.

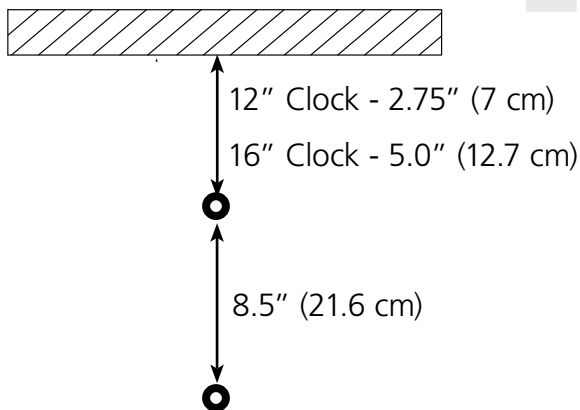
Wall Mount Installation - Round Metal Clock

1) Mark a point on the wall for each wall anchor.

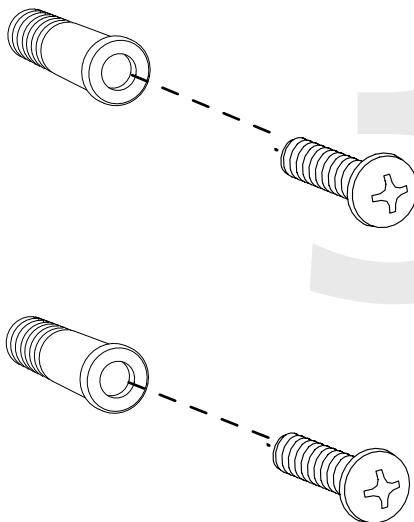
For 12" Clocks, the top mark should be 2.75 inches (7 cm) away from the ceiling.

For 16" Clocks, the top mark should be 5 inches (12.7 cm) away from the ceiling.

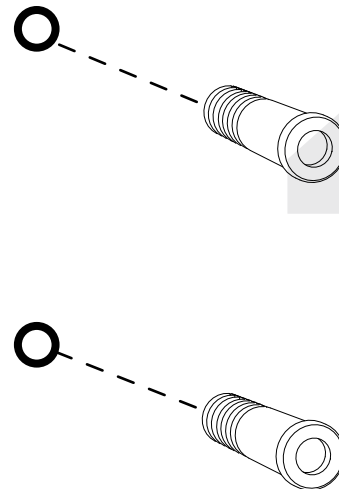
Use a level to position the bottom mark 8.5 inches (21.6 cm) below the top mark.



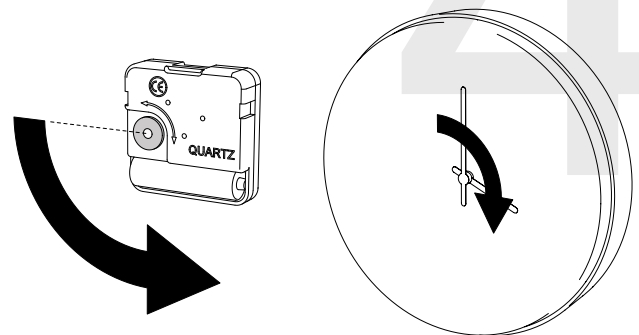
3) Insert a #10 screw into each wall anchor.



2) Use the 1/4 inch drill to drill holes at the locations of the two marks, then Insert a wall anchor into each hole.

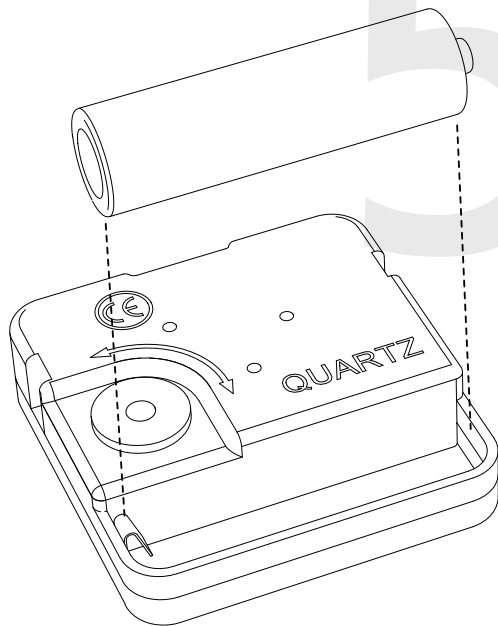


4) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

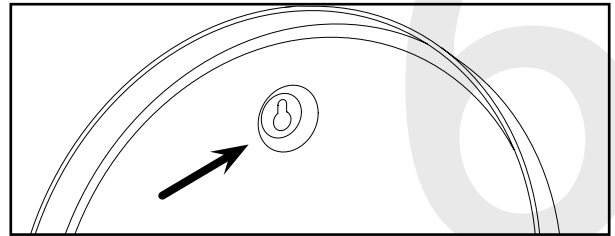


Wall Mount Installation - Round Metal Clock

5) Insert the AA Battery into the battery slot on the movement. The clock will start to function.

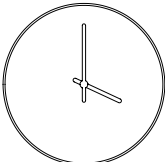
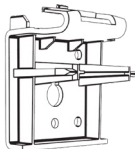


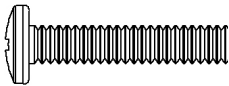

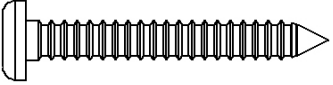



6) Use the keyholes in the clock case to hang the clock on the wall screws.



Wall Mount Installation - Round SlimLine Clock

Included in Package

Description	Quantity	Picture
SAI round SlimLine analog clock	1	
Included in Wiring Kit (A-SLM-MK-S-1)		
Mounting Piece	1	
#6-19x7/16 screw	2	
Strain Relief	1	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	2	
#6-19x3/8 screw	1 (not used)	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	

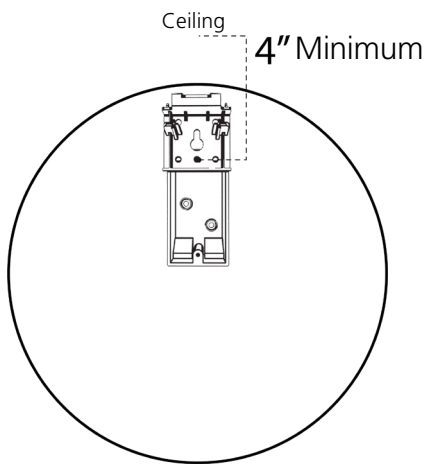
PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a single gang box, any equipment needed to install the gang box, and one AA battery. You may also need a 1/4 inch drill if you decide not to attach the clock directly to the gang box.

If any of the items listed in the wiring kit are missing, you may contact your dealer and order a replacement kit.

Wall Mount Installation - Round SlimLine Clock

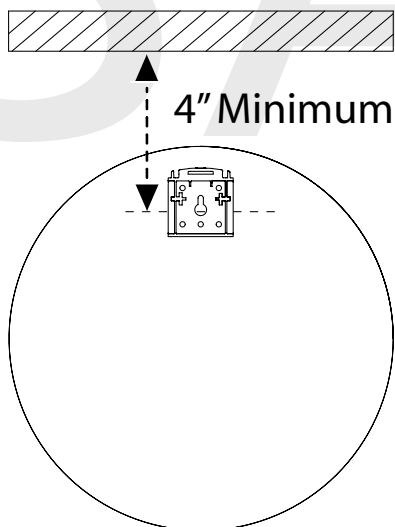
1) If you are installing a new gang box in the wall, leave at least 4 inches between the top of the gang box and ceiling. Confirm that the bottom of the gang box is level with the floor.

If you are using an existing gang box, the top of the gang box must be a minimum of four inches away from the ceiling.

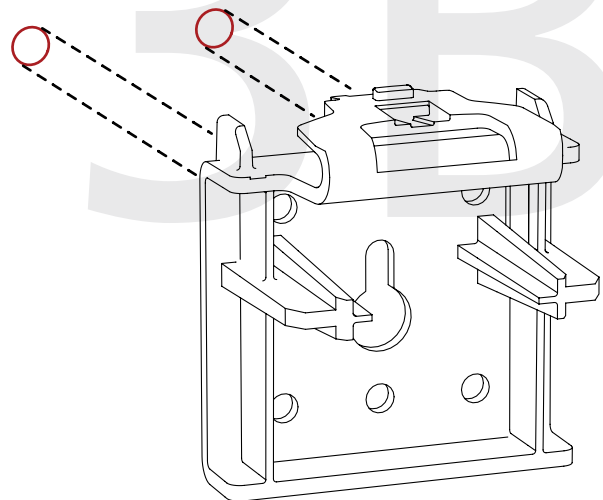


2) If you do not wish to attach the mounting piece to the gang box, proceed to step 3A. Otherwise, go to step 4.

3A) If you do not wish to attach the mounting piece to a gang box, place the mounting piece on the wall. Leave at least 4 inches between the middle of the mounting piece and ceiling. Confirm that the bottom of the mounting piece is level with the floor.

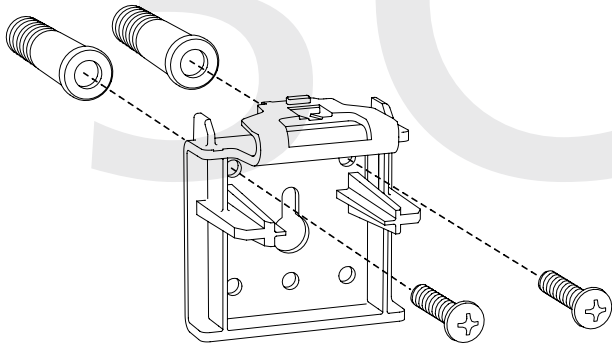


3B) Use a pencil to mark the positions of the top two holes, then use the 1/4 inch drill bit to drill holes at the locations of the two marks.

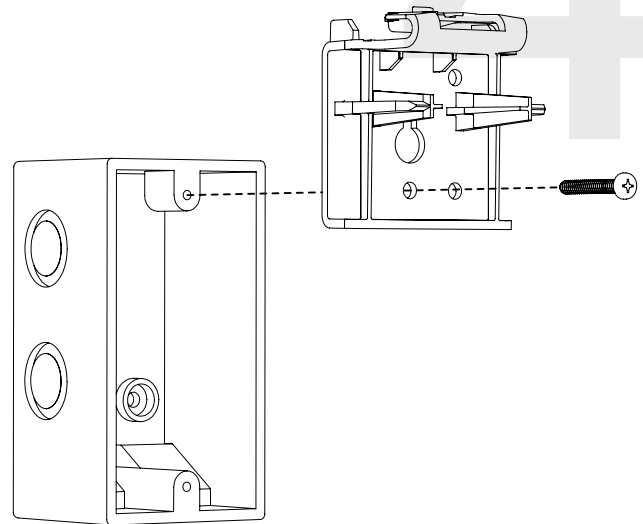


Wall Mount Installation - Round SlimLine Clock

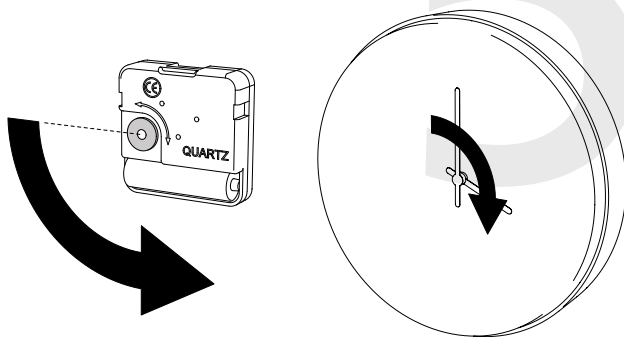
3C) Insert the wall anchors into the two holes, then place the two self tapping screws through the mounting piece and into the wall anchors. Skip step 4 and go directly to step 5.



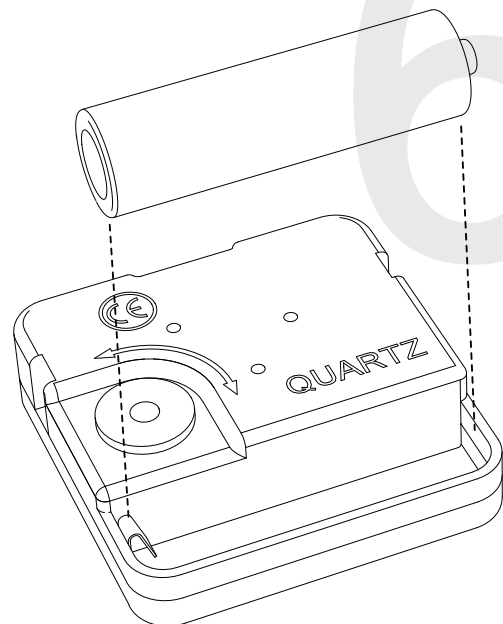
4) Place the mounting piece on the wall above the gang box so that the bottom centered hole on the piece overlaps the top hole on the gang box. Insert a #6-32x1 screw through the bottom centered hole and into the top hole of the gang box.



5) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

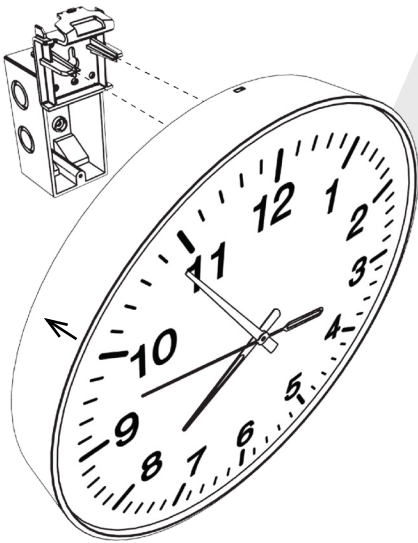


6) Insert the AA Battery into the battery slot on the movement. The clock will start to function.

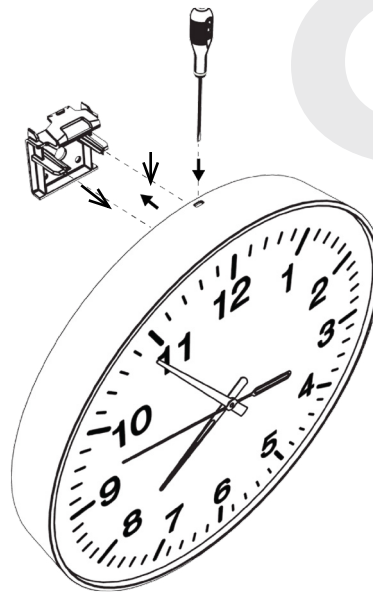


Wall Mount Installation - Round SlimLine Clock

7) Attach the clock to the mounting piece by sliding the clock back onto it. You should hear a snapping noise as the latch engages.

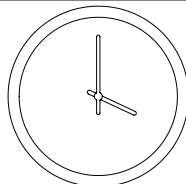
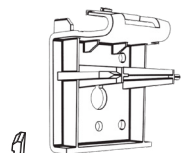
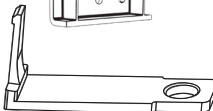


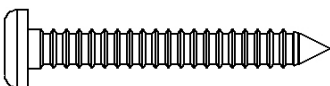





8) If you need to take the clock off the wall after the installation has been completed, use a flat-blade screwdriver or eyeglasses screwdriver to press down on and release the mounting piece latch, then slide the clock off the mounting piece.



Wall Mount Installation - Round Aluminum or Wood Clock

Included in Package

Description	Quantity	Picture
SAM round SlimLine analog clock with aluminum/wood rim	1	
Included in Mounting Kit (A-SLM-MK-AW)		
Mounting Piece	1	
Release lever	1	
#6-19x7/16 screw	2	
Strain Relief	1	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	2	
#6-19x3/8 screw	1 (not used)	

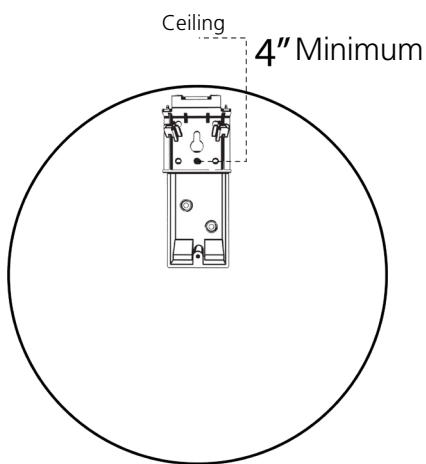
PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a drill with a 1/4 inch drill bit, a pencil, a single gang box, any equipment needed to install the gang box, and any additional wiring needed to extend the power or ground cables.

If any of the items listed in the wiring kit are missing, you may contact your dealer and order a replacement kit.

Wall Mount Installation - Round SlimLine Clock

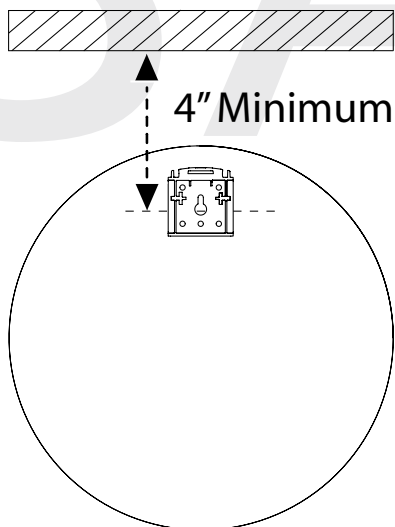
1) If you are installing a new gang box in the wall, leave at least 4 inches between the top of the gang box and ceiling. Confirm that the bottom of the gang box is level with the floor.

If you are using an existing gang box, the top of the gang box must be a minimum of four inches away from the ceiling.

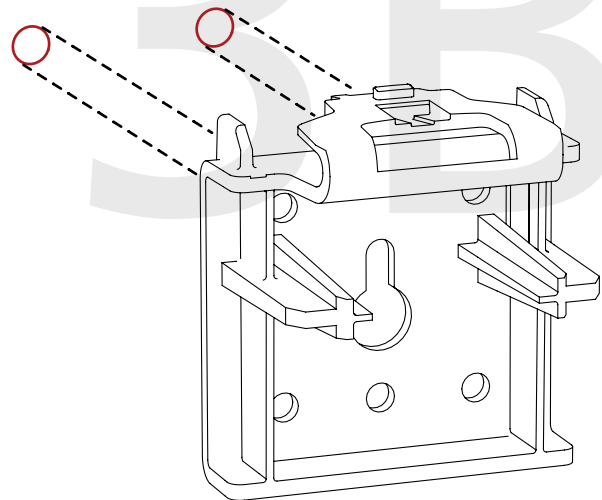


2) If you do not wish to attach the mounting piece to the gang box, proceed to step 3A. Otherwise, go to step 4.

3A) If you do not wish to attach the mounting piece to a gang box, place the mounting piece on the wall. Leave at least 4 inches between the middle of the mounting piece and ceiling. Confirm that the bottom of the mounting piece is level with the floor.

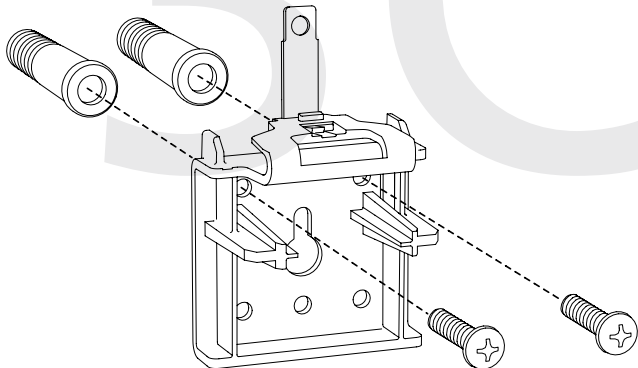


3B) Use a pencil to mark the positions of the top two holes, then use the 1/4 inch drill bit to drill holes at the locations of the two marks.

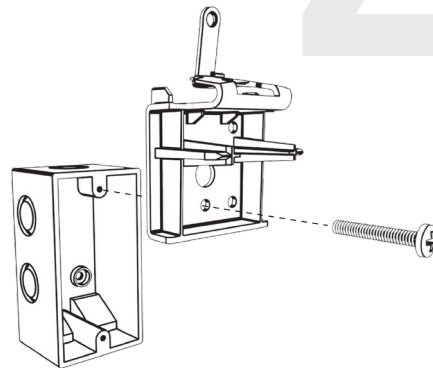


Wall Mount Installation - Round SlimLine Clock

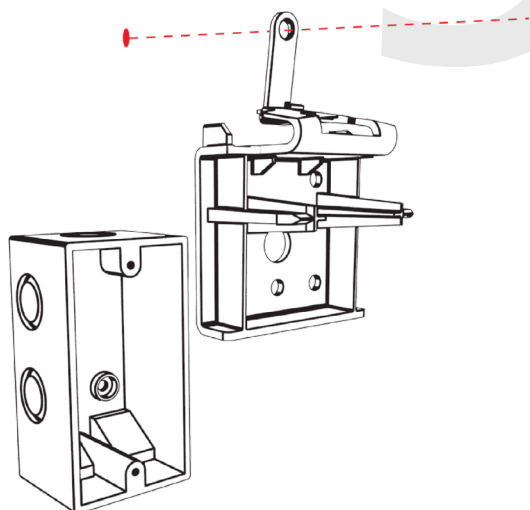
3C) Insert the wall anchors into the two holes, then place the two self tapping screws through the mounting piece and into the wall anchors. Skip step 4 and go directly to step 5.



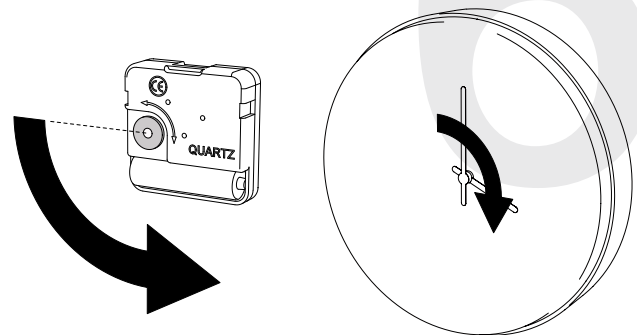
4) Place the mounting piece on the wall above the gang box so that the bottom centered hole on the piece overlaps the top hole on the gang box. Insert a #6-32x1 screw through the bottom centered hole and into the top hole of the gang box.



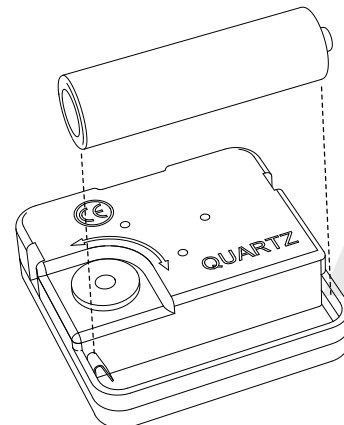
5) Temporarily attach the clock to the mounting piece (see step 11), use the pencil to mark the location of the hole at the top of the release lever, and remove the clock again (see step 13). Remove the mounting piece and make a hole at the location you just marked with the 1/8 inch drill bit. When finished, reattach the mounting piece.



6) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

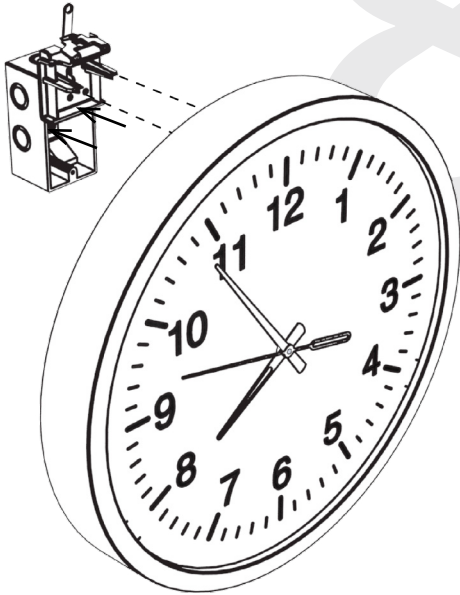


7) Insert the AA Battery into the battery slot on the movement. The clock will start to function.

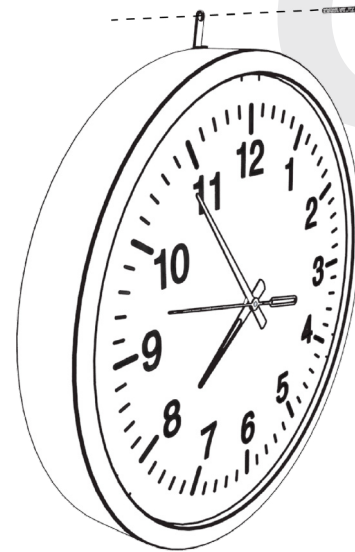


Wall Mount Installation - Round Aluminum or Wood Clock

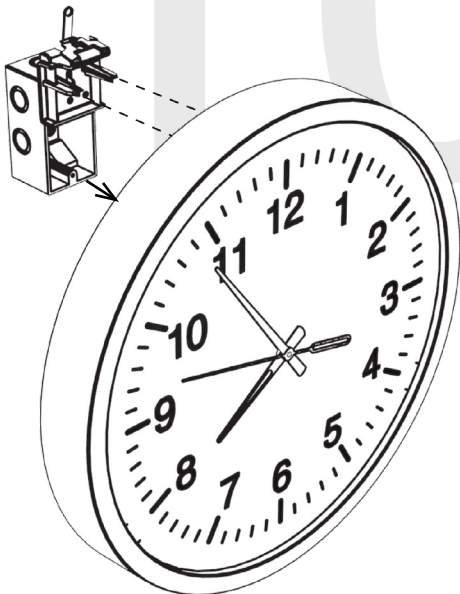
8) Attach the clock to the mounting piece by sliding the clock back onto it. You should hear a snapping noise as the latch engages.



9) Place one of the self-tapping screws through the hole in the top of the release lever.



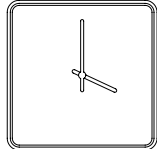
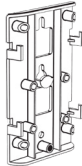


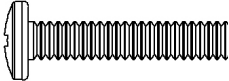

10) If you need to take the clock off the wall after the installation has been completed, remove the screw from the release lever, press the release lever down, then slide the clock off the mounting piece.



11) If you need to take the clock off the wall after the installation has been completed AND you accidentally broke off the release lever or forgot to attach it during installation, take a thin flathead screwdriver, thin ruler, or eyeglass screwdriver and insert the end between the clock and the wall. Press down on the latch until you are able to slide the clock off the mounting piece.

Wall Mount Installation - Square Clock

Included in Package

Description	Quantity	Picture
SAI square analog clock	1	
Mounting Piece (already attached to clock housing)	1	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	2	
#6-19x3/8 screw	1	

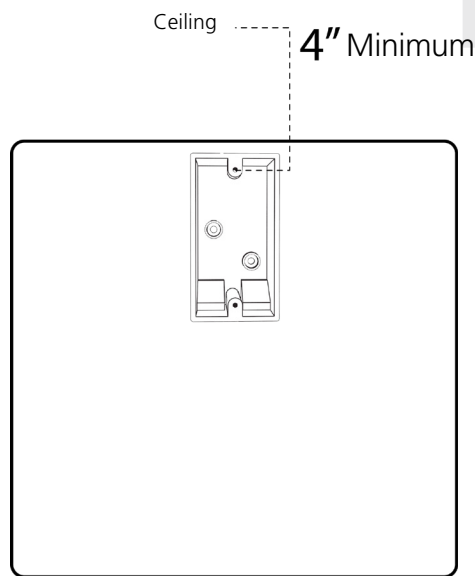
PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a single gang box, any equipment needed to install the gang box, and any additional wiring needed to extend the power or ground cables.

If any of the items listed in the wiring kit are missing, you may contact your dealer and order a replacement kit.

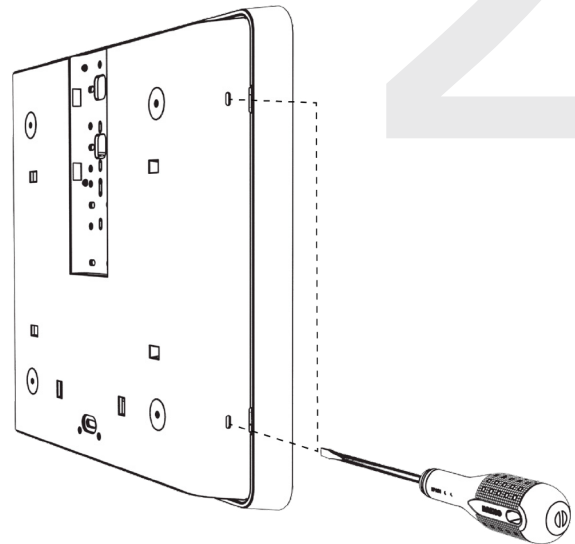
Wall Mount Installation - Square Clock

1) If you are installing a new gang box in the wall, leave at least 4 inches between the top of the gang box and ceiling. Confirm that the bottom of the gang box is level with the floor.

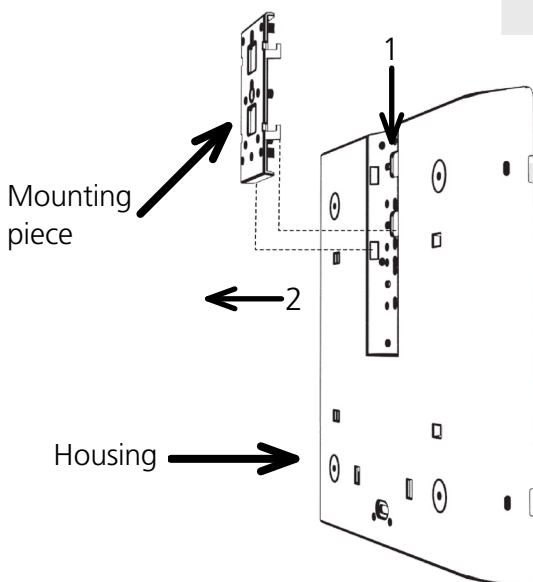
If you are using an existing gang box, the top of the gang box must be a minimum of four inches away from the ceiling.



2) Detach the housing from the back of the clock. Do this by inserting a flat-blade screwdriver about 1/8 inch into each of the slot holes until the housing detaches. You may hear a snapping noise as the latches disengage.



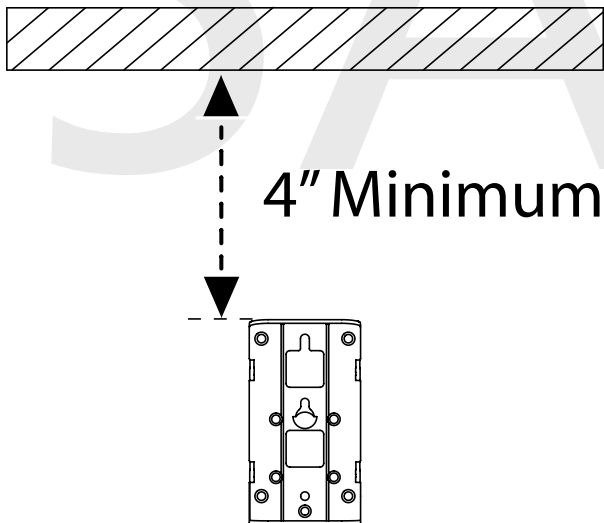
3) Release the mounting piece from the back of the housing by sliding it towards the center of the housing, then pulling it back and away from the housing.



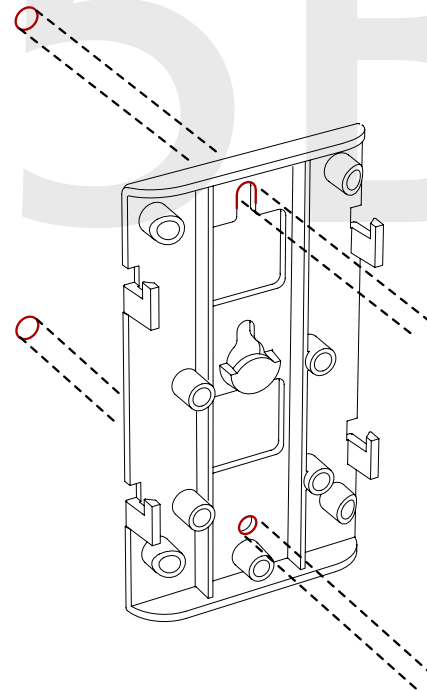
4) If you do not wish to attach the mounting piece to the gang box, proceed to step 5A. Otherwise, go to step 6.

Wall Mount Installation - Square Clock

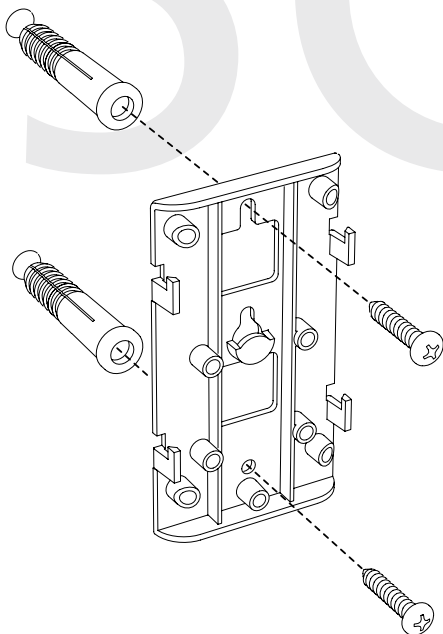
5A) Place the mounting piece on the wall. Leave at least 4 inches between the top of the mounting piece and ceiling. Take care to make sure that the bottom of the mounting piece is level with the floor.



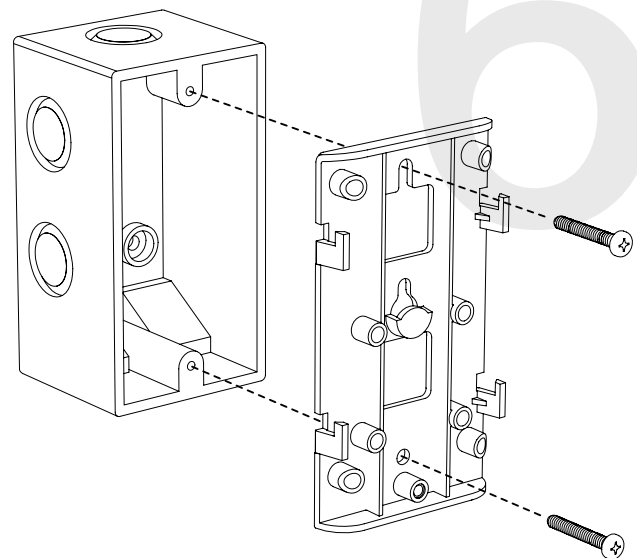
5B) Use a pencil to mark the two holes shown in the diagram below. Then use the 1/4 inch drill bit to drill holes at the marked positions.



5C) Insert the wall anchors into the holes, then place the #8 screws through the mounting piece and into the wall anchors. Skip step 6 and go directly to step 7.

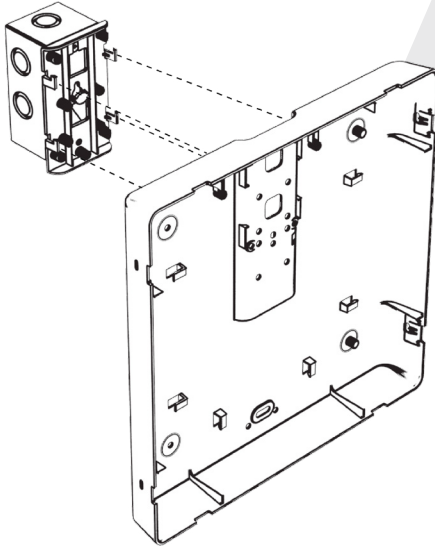


6) Attach the mounting piece to the gang box using both of the #6-32x1 screws and a Phillips-head screwdriver.

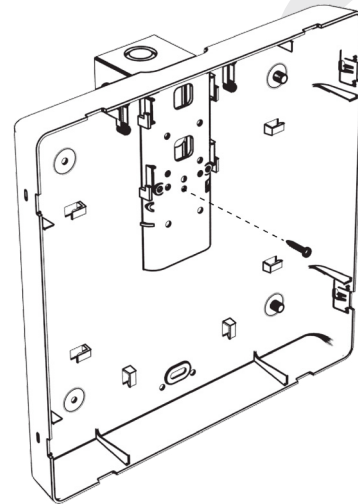


Wall Mount Installation - Square Clock

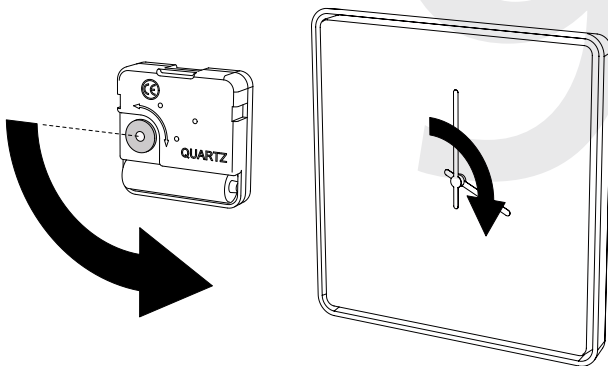
7) Slide the clock housing onto the mounting piece. If the housing does not slide on properly, tighten the screws that attach the mounting piece to the gang box or wall anchors.



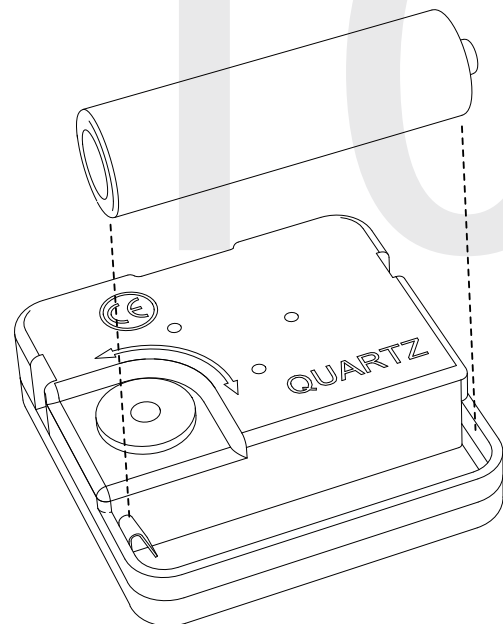
8) If you wish to prevent the clock from sliding off the mounting piece, use the small, silver 6-19x3/8 screw on the bottom centered hole. Once the screw is in place, test it by attempting to slide the housing up. The housing should not move.



9) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

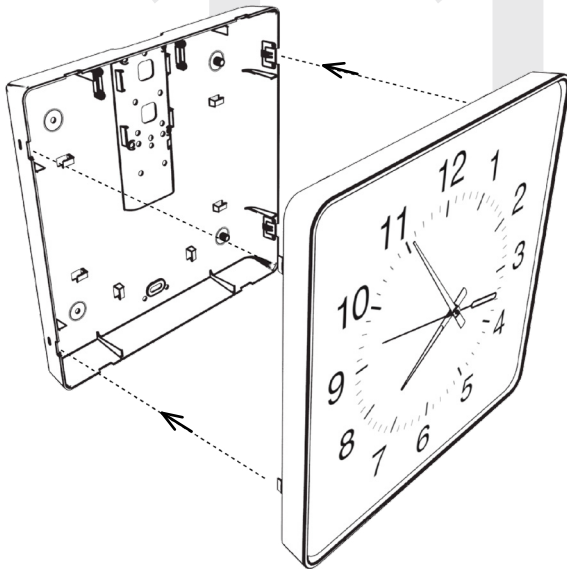


10) Insert the AA Battery into the battery slot on the movement. The clock will start to function.

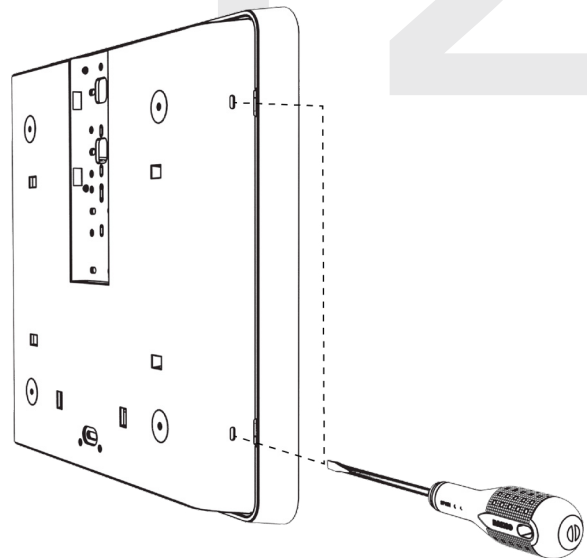


Wall Mount Installation - Square Clock - Locally Powered

11) Slide the clock back into the housing. You should hear a snapping noise as the latches reengage.

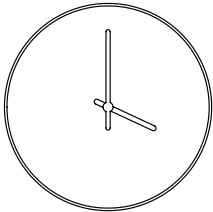
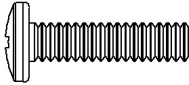

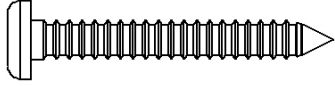
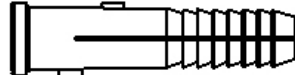


12) If you feel the need to take the clock off the wall after the installation has been completed, use a flat-blade screwdriver to detach the housing from the back of the clock, then use a Phillip's-head screwdriver to detach the mounting piece from the housing and gang box.



Flag Mount Installation - Round Metal Clock

Included in Package

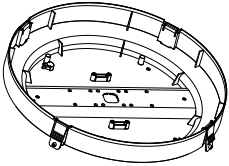
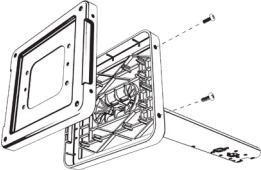
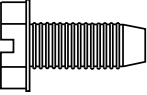
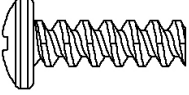




Description	Quantity	Picture
SAI round Metal analog clock	1	
Included in Mounting Kit (A-MK-QS-1E)		
#6-32x1/2 screw	2 (not used)	
M4-0.5x10	2 (not used)	
#10x1.5 Self-tapping screw	2	
Wall anchor	2	

Continued on next page

If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Flag Mount Installation - Round Metal Clock

Included in Adapter Kit (A-MOUNT-12S-2) or (A-MOUNT-16S-2)
or (A-MTL-MOUNT-12S-2) or (A-MTL-MOUNT-16S-2)

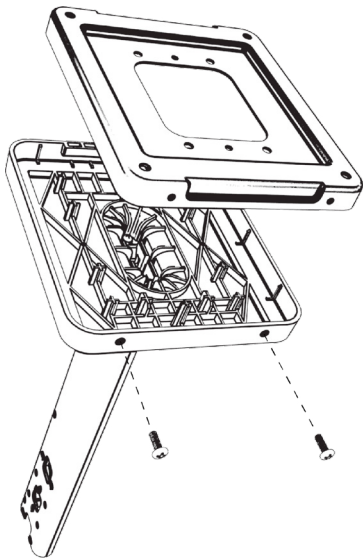
Description	Quantity	Picture
Round Clock Adapter	1	
Included in Pole Kit (SAB-1BD-00S-0)		
Dual-mount pole, including mounting plate	1	
#10-32x3/8 green screw	1	
#8-32x7/16 screw	8	
M3.5-1.0x10 screw (black)	4	
Internal-tooth washer	8	
#6-32x1 screw	4	
Adapter tab screws	4	

PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small slot-head screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors that can support 50 lbs and a maximum screw size of 10x1.5", four #8 screws for the wall anchors, four #6-32x1 screws for attaching the mounting plate to the gang box, any equipment needed to install the gang box, and one AA battery.

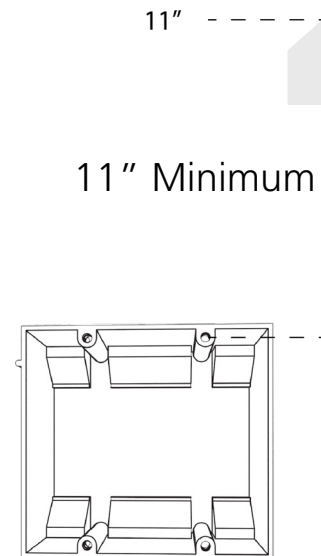
If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Flag Mount Installation - Round Metal Clock

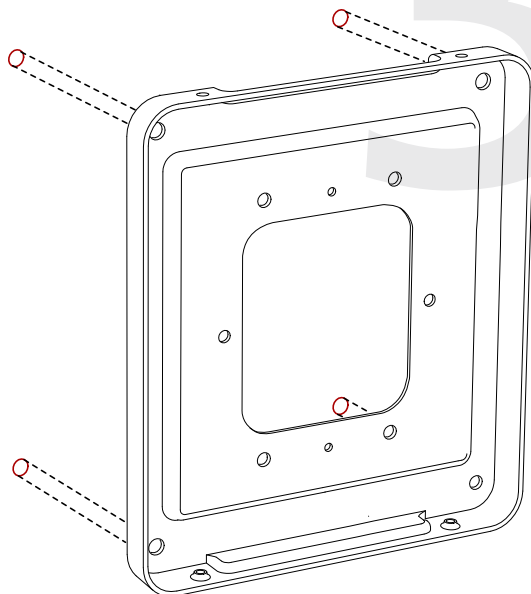
1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.



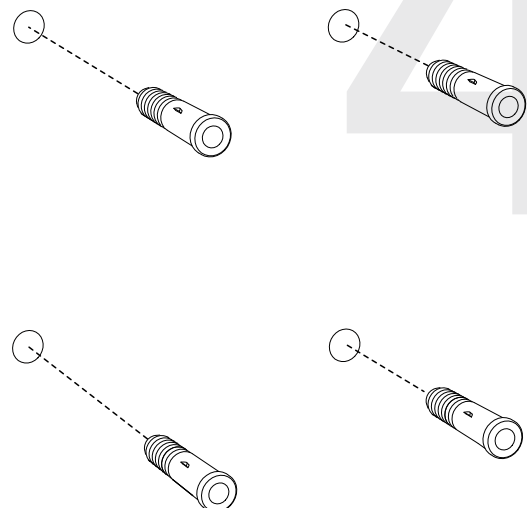
2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

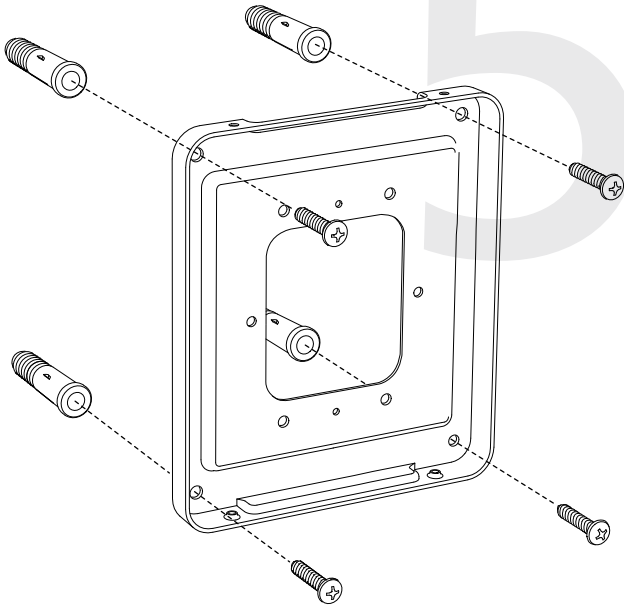


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

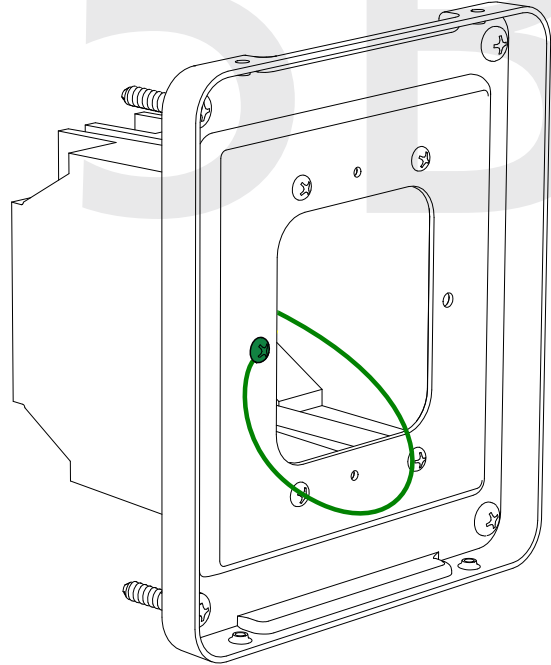


Flag Mount Installation - Round Metal Clock

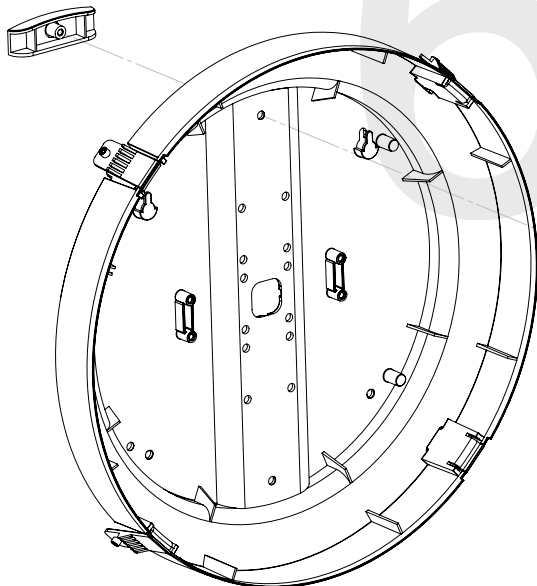
5) Insert the #8 screws through the mounting plate and into the anchors.



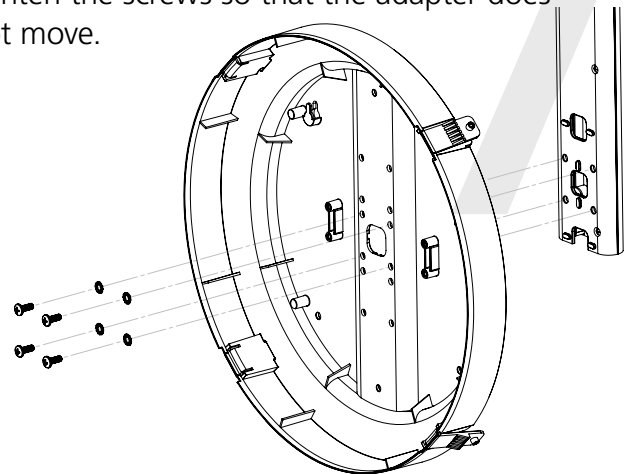
5B) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Use a screwdriver to remove one of the end caps. The end cap and screw that was used to secure it will not be needed again during this installation.



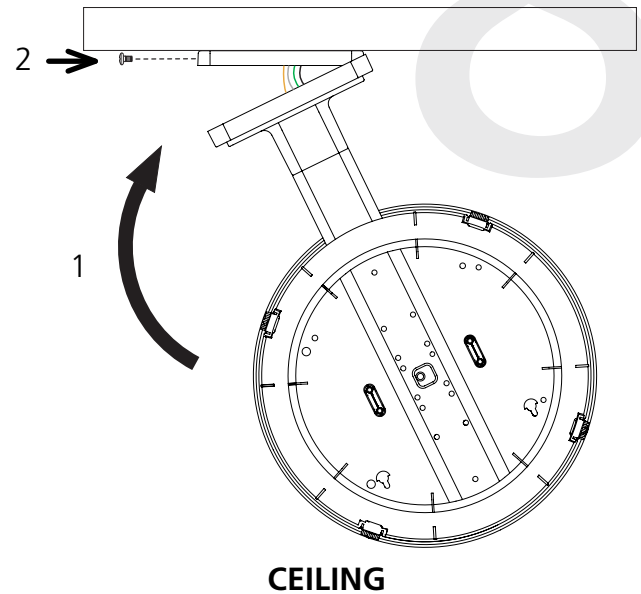
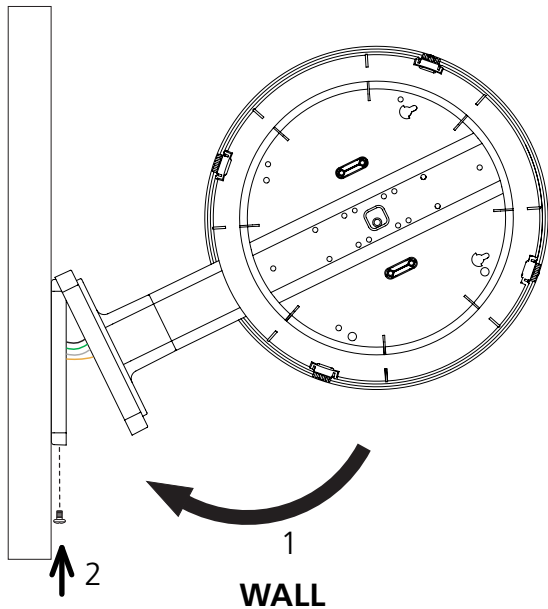
7) Insert the four #8-32x7/16 screws through the internal-tooth washers, then through the adapter, and finally into the pole. Use a screwdriver to tighten the screws so that the adapter does not move.



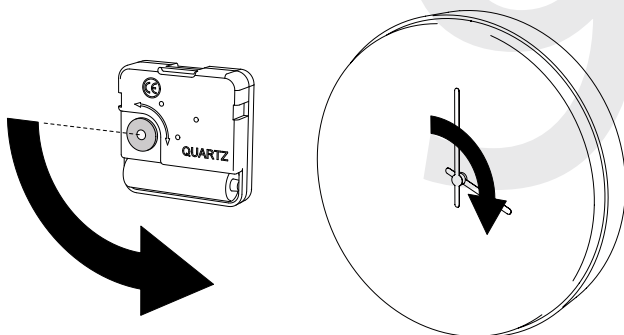
If you are using a metal adapter and are planning on mounting the housing from the ceiling, use pliers to remove the cage nuts and reinstall them in the other two open holes on the housing.

Flag Mount Installation - Round Metal Clock

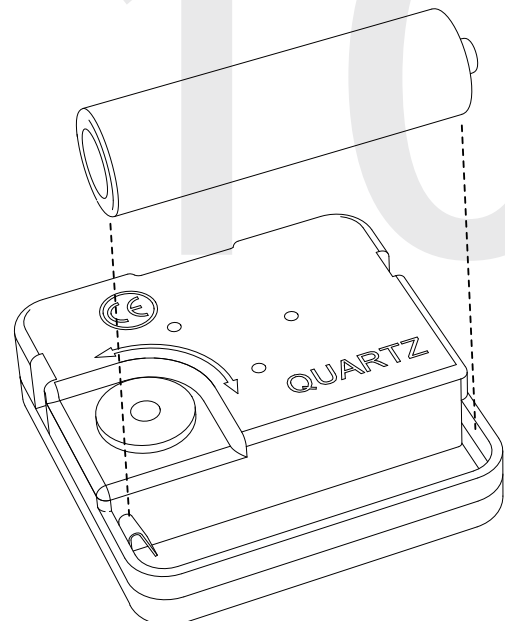
8) Attach the base of the pole to the mounting plate so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.



9) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

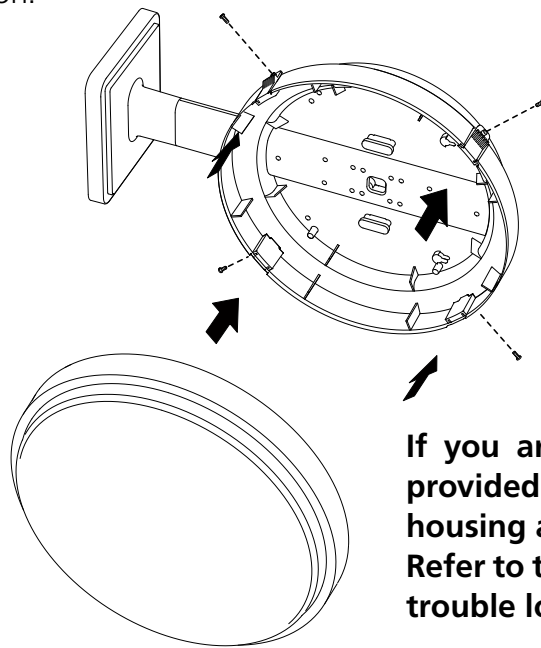


10) Insert the AA Battery into the battery slot on the movement. The clock will start to function.



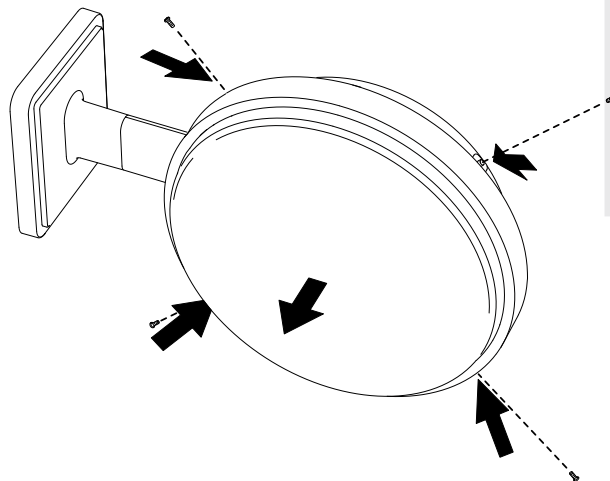
Flag Mount Installation - Round Metal Clock

11) Slide each clock onto the adapter in the rotation that you wish it to be viewed. You should hear a snapping noise as the four clips on the adapter secure the clock in place. Insert the adapter tab screws to complete the installation.



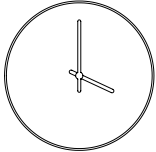
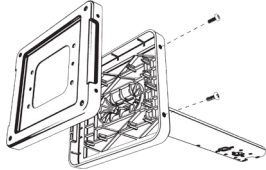
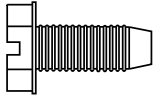
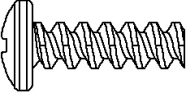
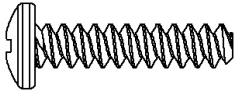

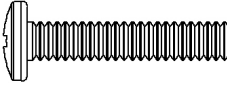
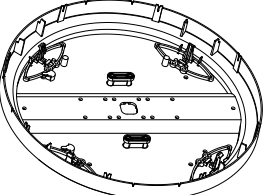
If you are using a metal adapter, install the provided screws through the holes in the clock housing and into the cage nuts on the adapter. Refer to the wall mount instructions if you have trouble locating the holes.

12) If you feel the need to detach the clock from the housing after the installation has been completed, remove the outer adapter screws, press down on the latches, and gently pull on the rim of the clock until the clock detaches.



Flag Mount Installation - Round SlimLine/Aluminum Clock

Included in Package

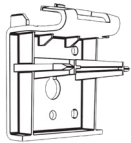
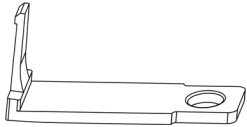


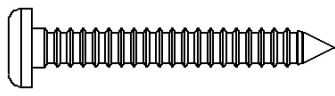
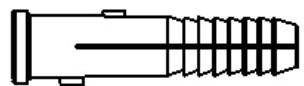
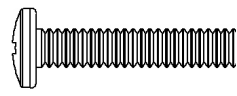

Description	Quantity	Picture
SAI round SlimLine analog clock	1	
Included in Pole Kit (SAB-4BD-00S-0 or SAB-1BD-00S-0) Dual-mount pole, including mounting plate.	1	
#10-32x3/8 green screw	1	
#8-32x7/16 screw	8	
M3.5-1.0x10 screw (black)	4	
Internal-tooth washer	8	
#6-32x1 screw	4	
Included in Adapter Kit (A-SLM-Mount-12S-0)		
Round Clock Adapter	1	

Continued on next page

If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Flag Mount Installation - Round SlimLine/Aluminum Clock

Included in Mounting Kit (A-SLM-MK-S-1) or (A-SLM-MK-AW)

Description	Quantity	Picture
Mounting Piece	1 (not used)	
Release lever	0 or 1 (not used)	
#6-19x7/16 screw	2	
Strain relief	1	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	2 (not used)	
#6-19x3/8 screw	1 (not used)	

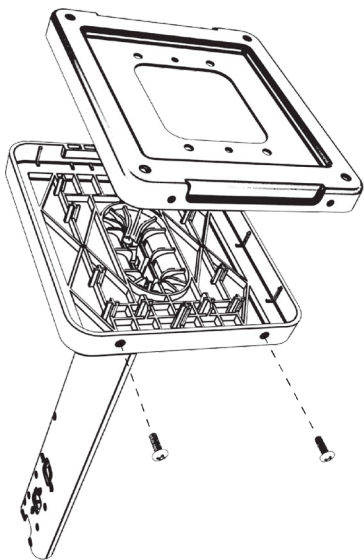
PLEASE NOTE: A user must also provide a Phillips-head screwdriver, a small flat-blade screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors (must support 50 lbs, #8 screw size, 1.5" (3.8cm) screw length), four #8 screws for the wall anchors, two additional #6-32x1 screws for attaching the mounting plate to the gang box, any equipment needed to install the gang box, and one AA battery.

If any of the items listed in the wiring kit are missing, you may contact your dealer and order a replacement kit.

SlimLine and Aluminum Clocks use the same installation procedures for flag mount housings.

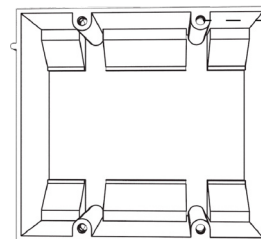
Flag Mount Installation - Round SlimLine/Aluminum Clock

1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.

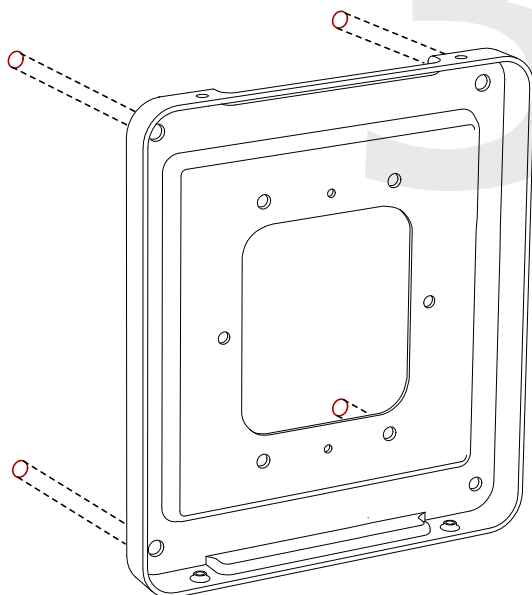


2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.

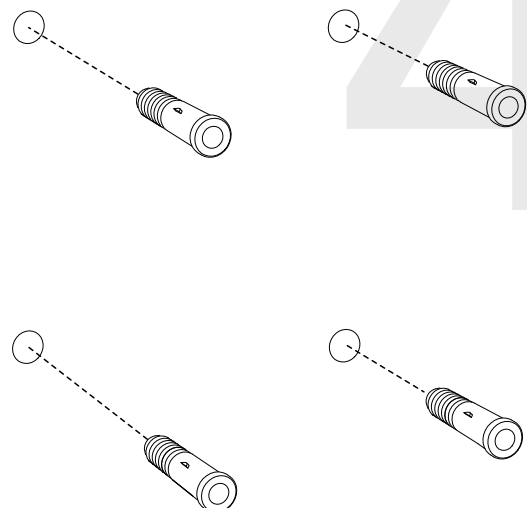
11" Minimum



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

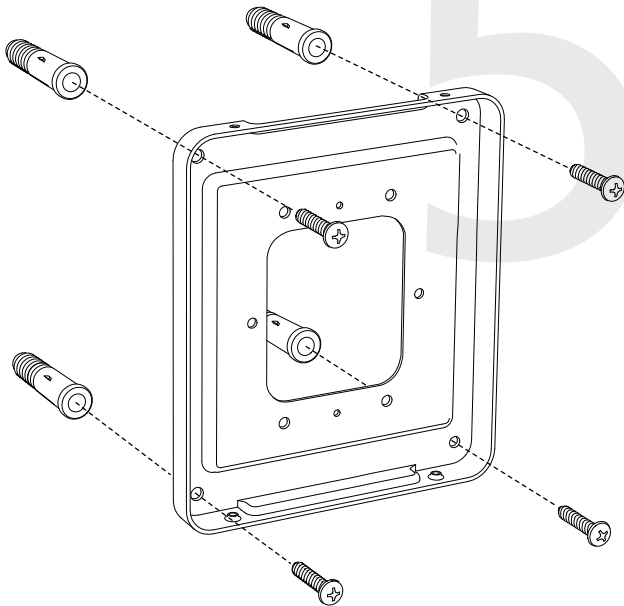


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

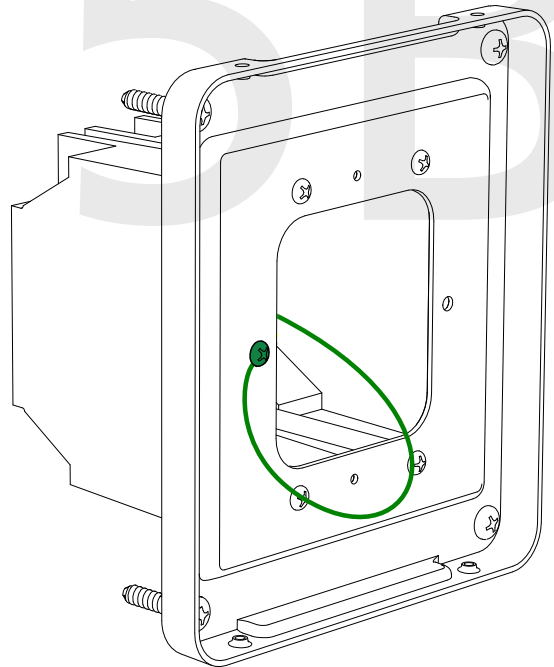


Flag Mount Installation - Round SlimLine/Aluminum Clock

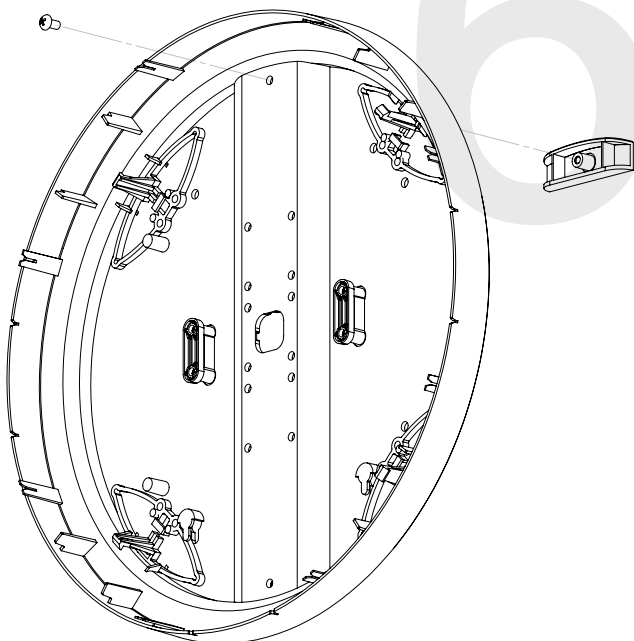
5) Insert the #8 screws through the mounting plate and into the anchors.



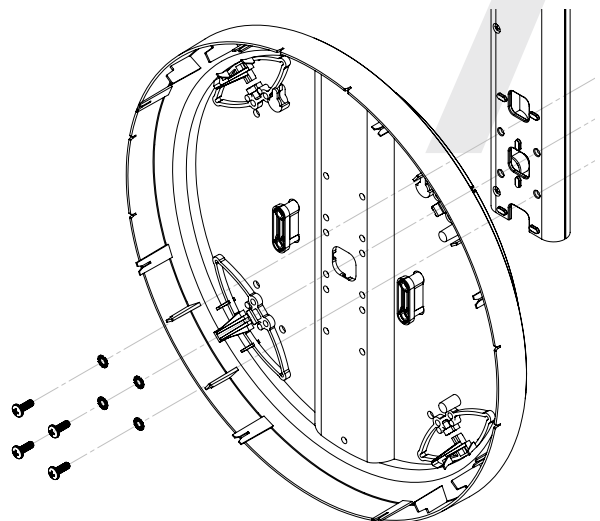
5B) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Use a screwdriver to remove one of the end caps. The end cap and screw that was used to secure it will not be needed again during this installation.

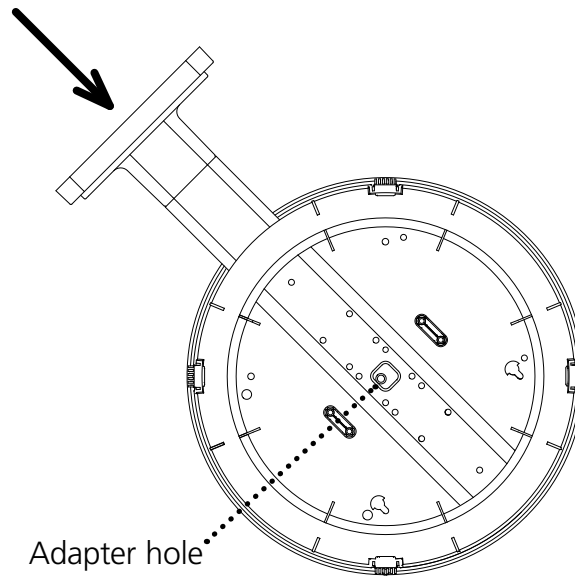


7) Insert the four #8-32x7/16 screws through the internal-tooth washers, then through the adapter, and finally into the pole. Use a screwdriver to tighten the screws so that the adapter does not move.

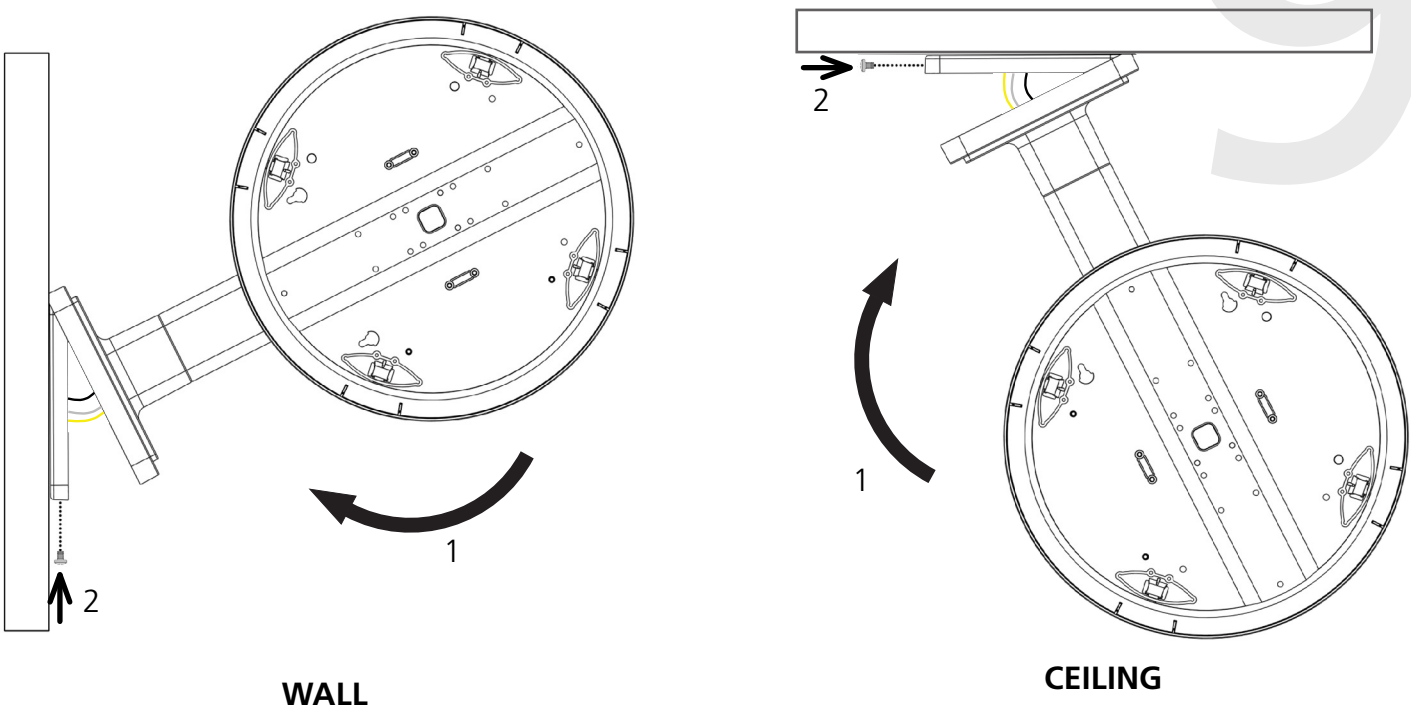


Flag Mount Installation - Round SlimLine/Aluminum Clock

8) Thread at least fifteen inches (38.1cm) of wiring from the gang box through the bottom of the pole until each wire exits through the hole in the adapter.

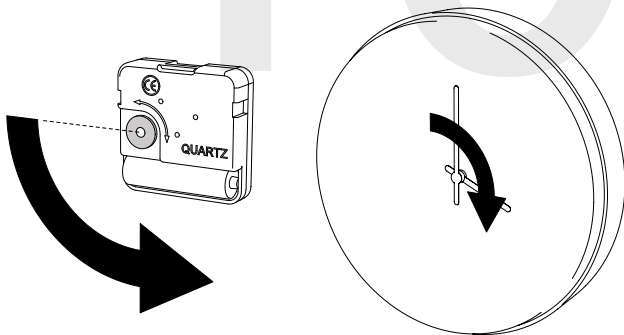


9) Attach the base of the pole to the mounting plate so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.

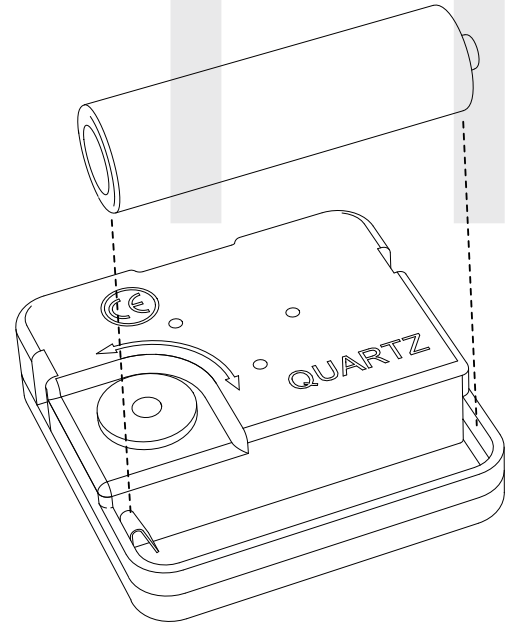


Flag Mount Installation - Round SlimLine/Aluminum Clock

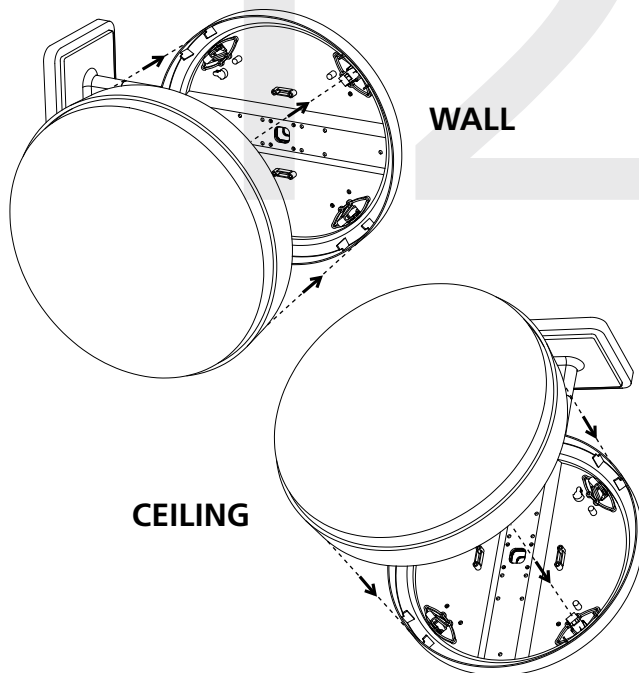
10) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.



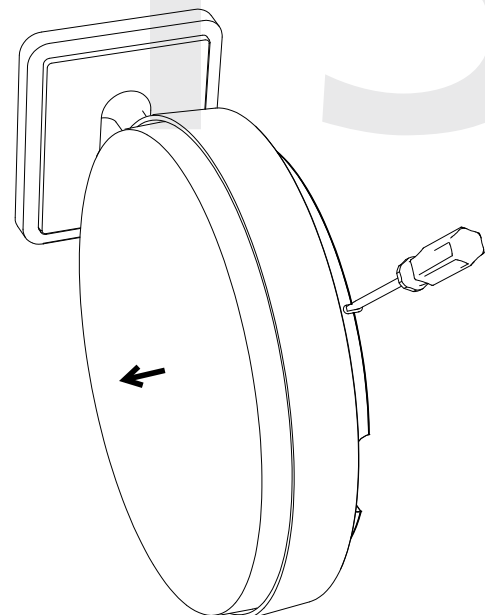
11) Insert the AA Battery into the battery slot on the movement. The clock will start to function.



12) Slide the clock onto the adapter in the rotation that you wish it to be viewed. You should hear a snapping noise as the four clips on the adapter secure the clock in place.

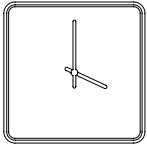
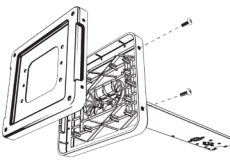
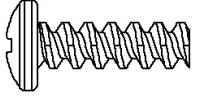
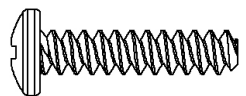

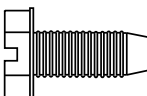
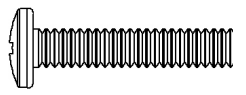

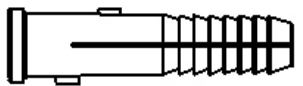




13) If you feel the need to detach the clock from the housing after the installation has been completed, use a flat-blade screwdriver on the four slots around the outside of the housing. You may hear a snapping noise as the internal latches disengage.



Flag Mount Installation - Square Clock

Included in Package

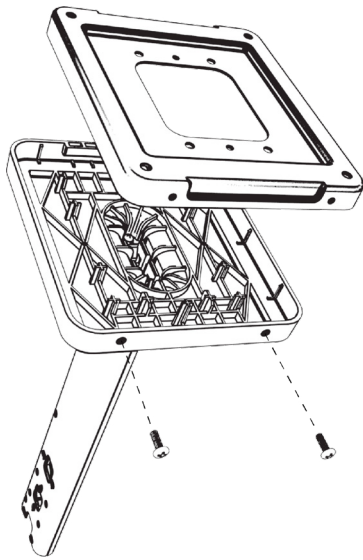
Description	Quantity	Picture
SAI square analog clock	1	
Included in Pole Kit (SAB-4GD-00S-0 or SAB-1GD-00S-0)		
Dual-mount pole, including mounting plate.	1	
#8-32x7/16 screw	8 (4 used)	
M3.5-1.0x10 screw (black)	4 (not used)	
Internal-tooth washer	8 (4 used)	
#10-32x3/8 green screw	1	
#6-32x1 screw	4	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	2 (not used)	
#6-19x3/8 screw	1 (not used)	

PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors (must support 50 lbs, #8 screw size, 1.5"(3.8cm) screw length), four #8 screws for the wall anchors, two additional #6-32x1 screws for attaching the mounting plate to the gang box, any equipment needed to install the gang box, and one AA battery.

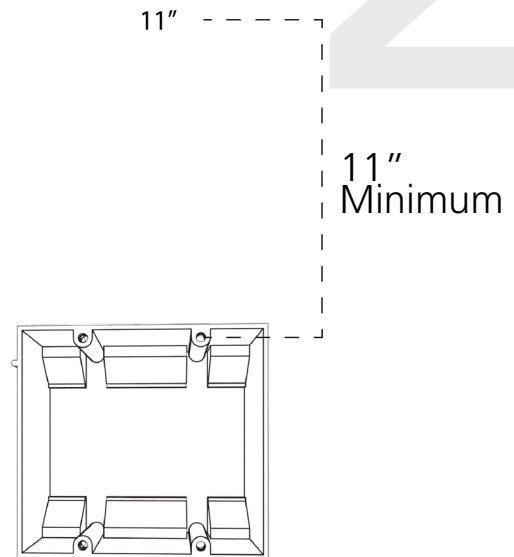
If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Flag Mount Installation - Square Clock

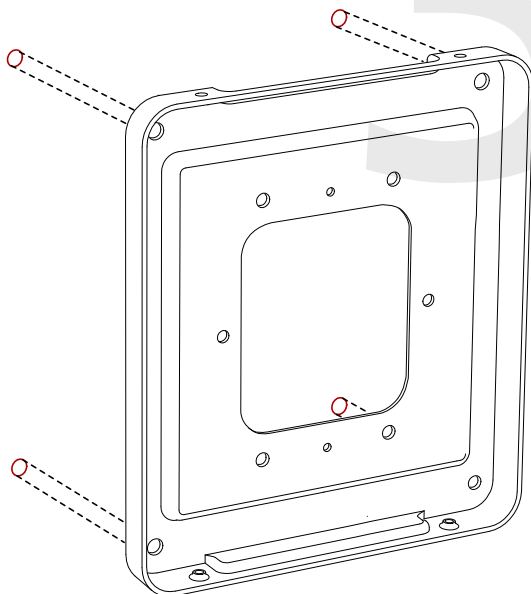
1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.



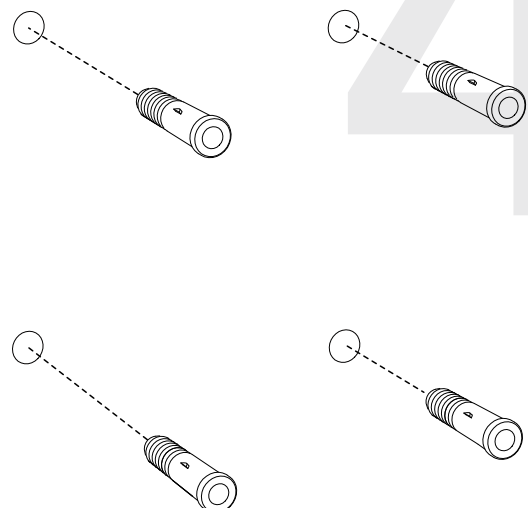
2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

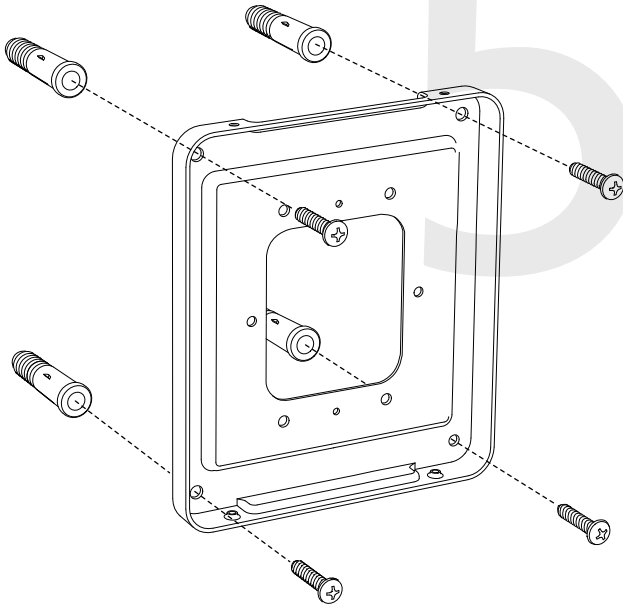


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

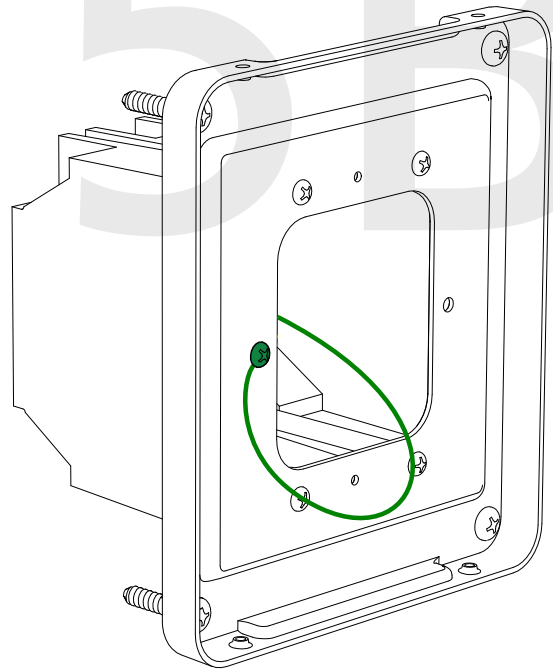


Flag Mount Installation - Square Clock

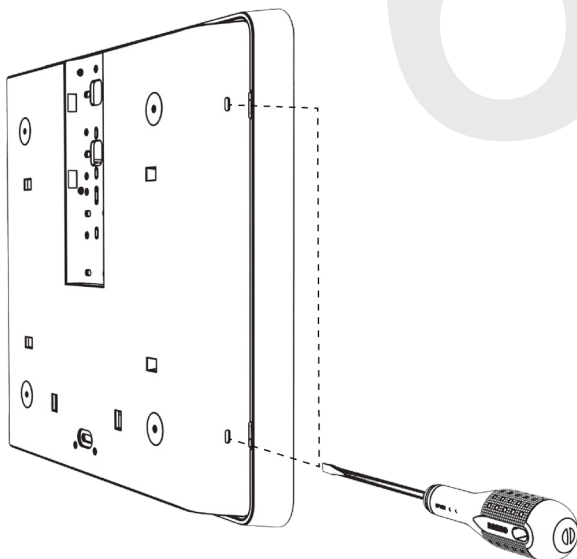
5) Insert the #8 screws through the mounting plate and into the anchors.



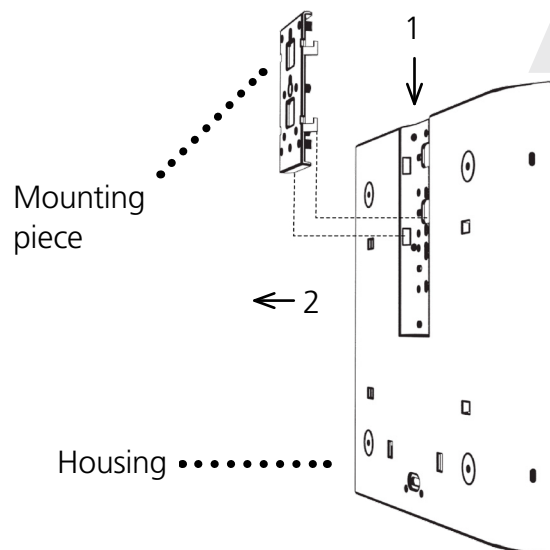
5b) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Detach the housing from the back of each clock. Do this by inserting a flat-blade screwdriver about 1/8 inch into each of the slot holes until the piece detaches. You may hear a snapping noise as the latches disengage.

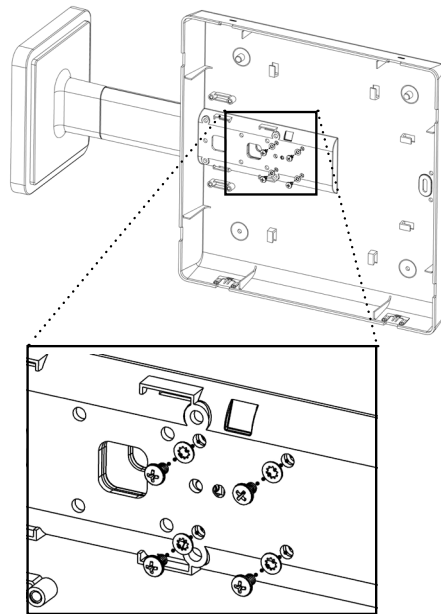


7) Release the mounting piece from the back of the housing by sliding it towards the center of the housing, then pulling it back and away from the housing. You will not need the mounting pieces later; either store them or throw them away at your discretion. **DO NOT THROW AWAY THE HOUSINGS.**

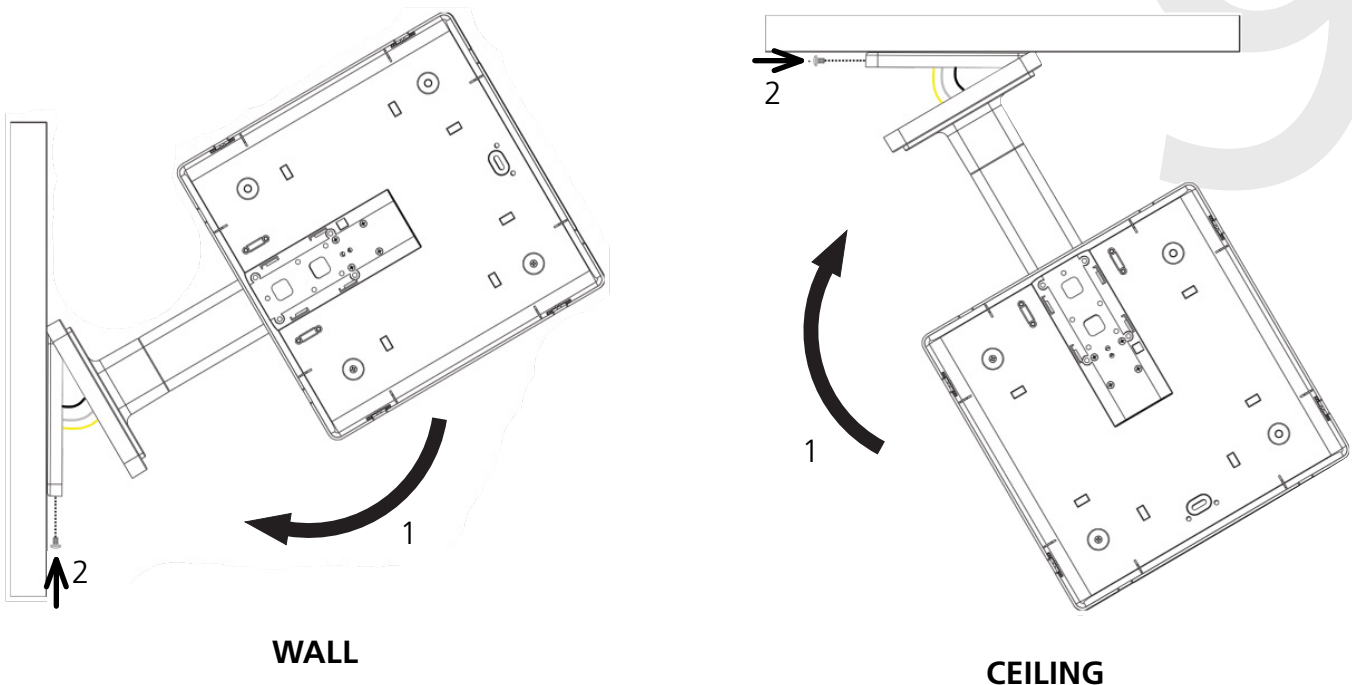


Flag Mount Installation - Square Clock

8) Attach the clock housing to the pole using four black #8-32x7/16 screws and four internal-tooth washers.

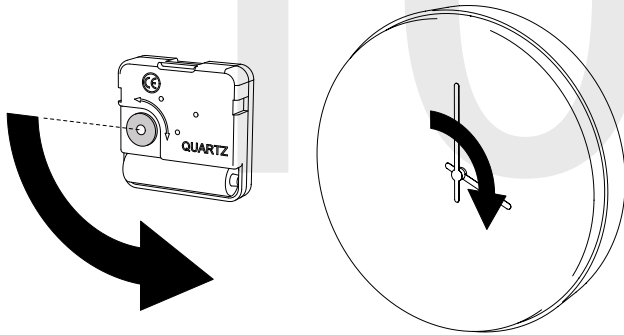


9) Attach the base of the pole to the mounting plate, so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.

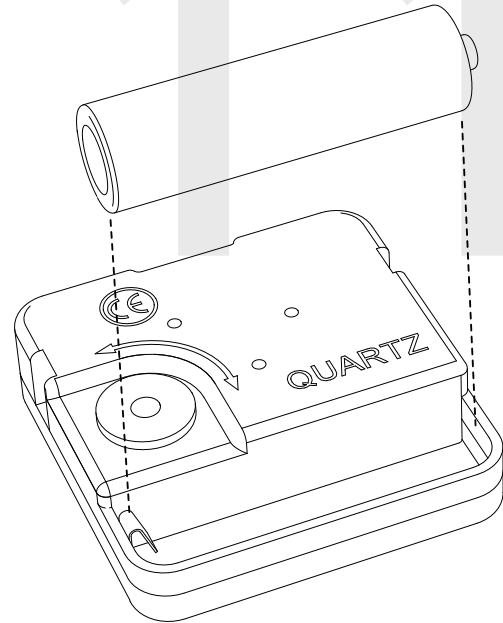


Flag Mount Installation - Square Clock

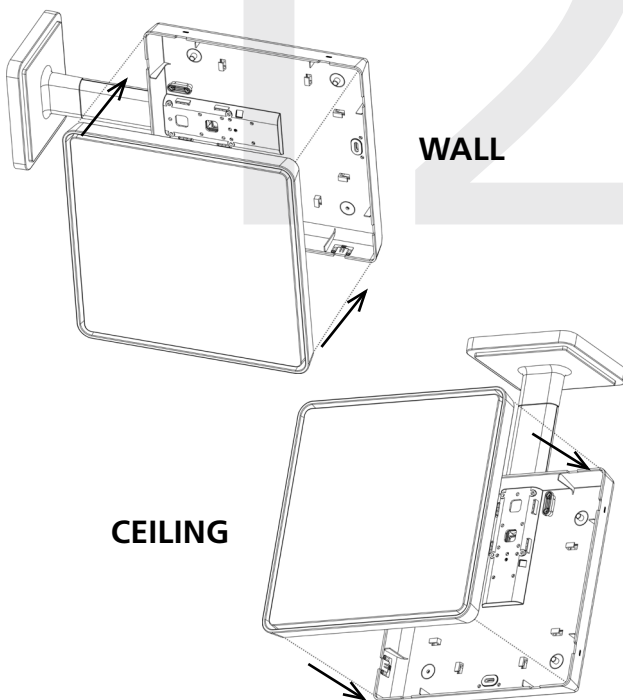
10) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.



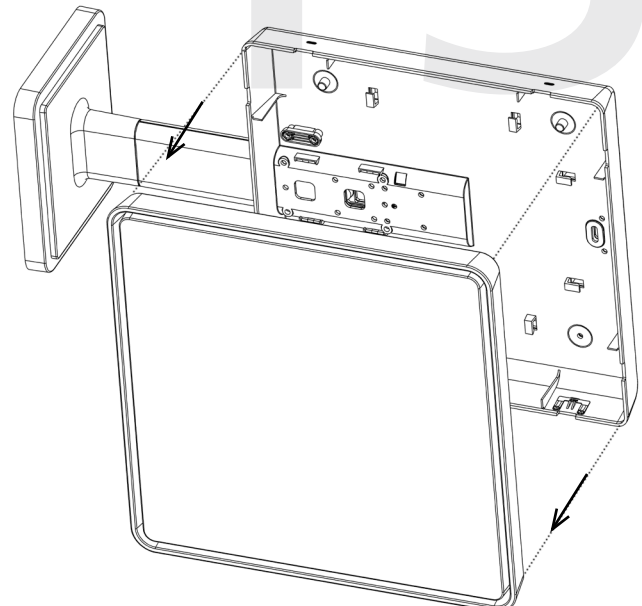
11) Insert the AA Battery into the battery slot on the movement. The clock will start to function.



12) Rotate the clock so that it is right-side up. Slide the clock back into its housing. You should hear a snapping noise as the latches reengage.

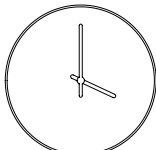


13) If you feel the need to detach the clock from the housing after the installation has been completed, use a flat-blade screwdriver on the four slots around the outside of the housing. You may hear a snapping noise as the internal latches disengage.



Double Mount Installation - Round Metal Clock



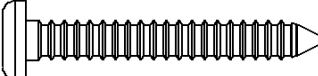
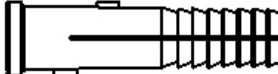
Included in Package

Description	Quantity	Picture
SAI round analog clock	2	

Included in Double Mount Kit (SAB-4BD-12R-0M or SAB-4BD-16R-0M)

Dual-mount pole, including mounting plate and adapters	1	
#10-32x3/8 green screw	1	

Included in Mounting Kit (A-MK-QS-1E)

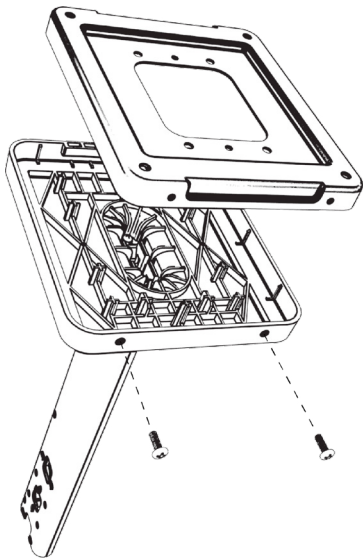
#6-32x1/2 screw	2 (not used)	
M4-0.5x10	2 (not used)	
#10x1.5 Self-tapping screw	2	
Wall anchor	2	

PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small slot-head screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors that can support 50 lbs and a maximum screw size of 10x1.5", four #8 screws for the wall anchors, four #6-32x1 screws for attaching the mounting plate to the gang box, any equipment needed to install the gang box, and one AA battery.

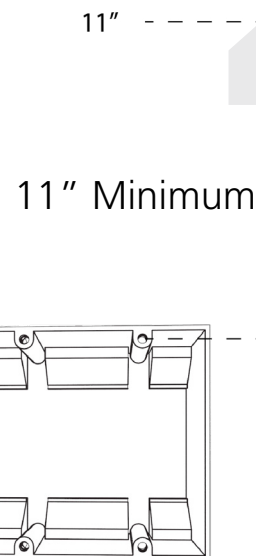
If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Double Mount Installation - Round Metal Clock

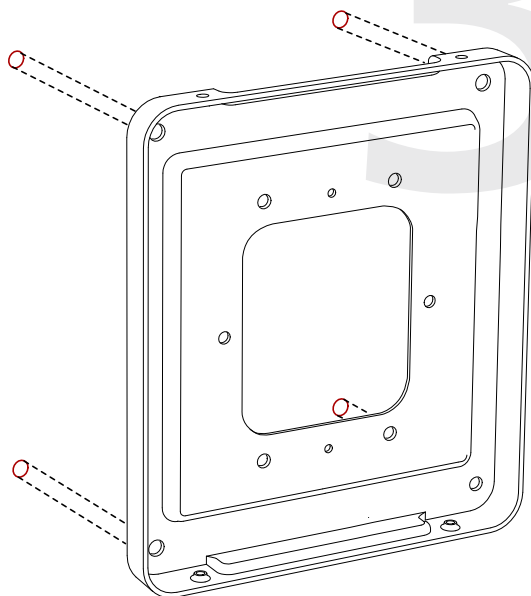
1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.



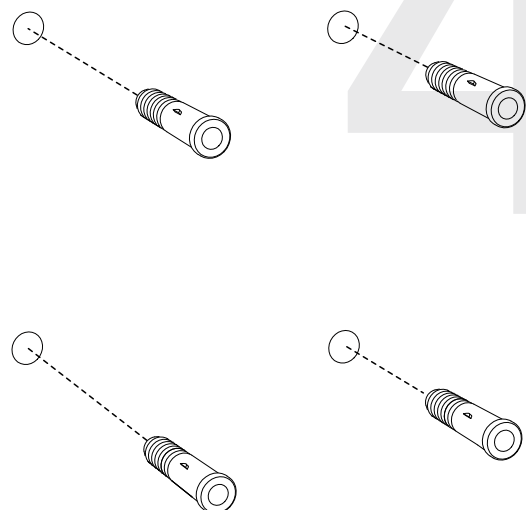
2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

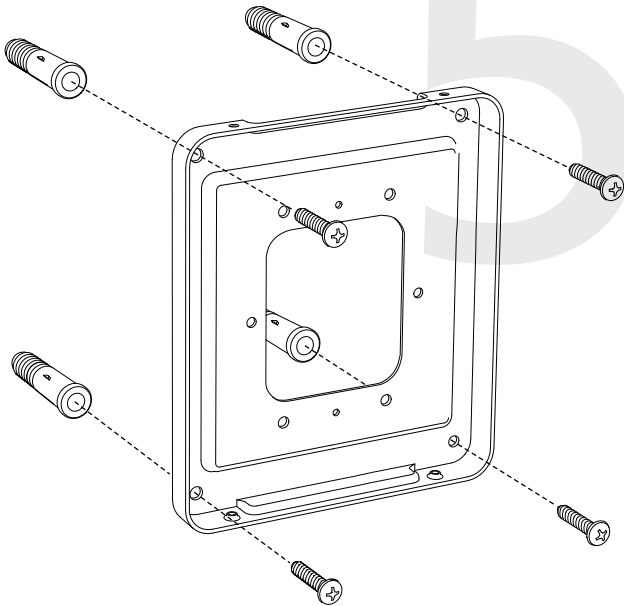


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

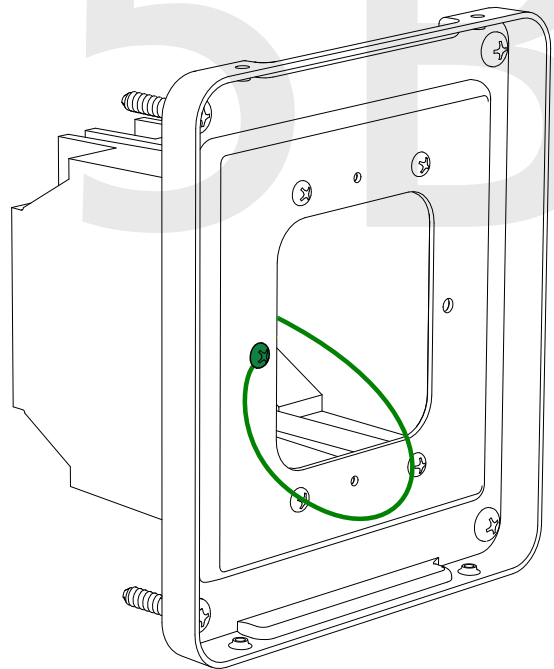


Double Mount Installation - Round Metal Clock

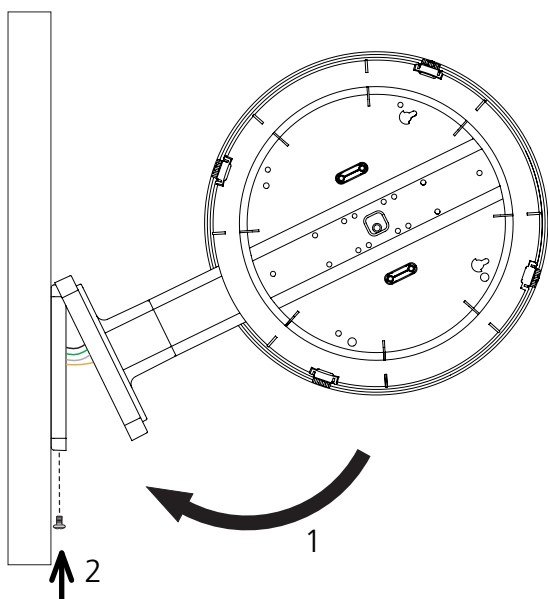
5) Insert the #8 screws through the mounting plate and into the anchors.



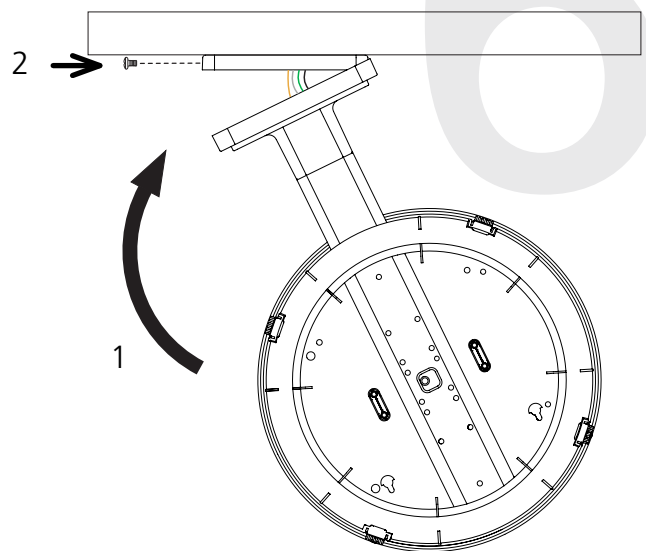
5b) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Attach the base of the pole to the mounting plate so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.



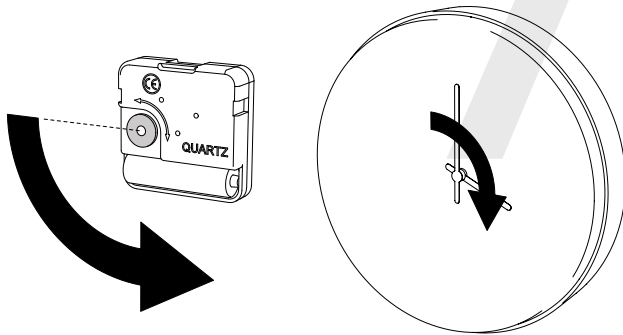
WALL



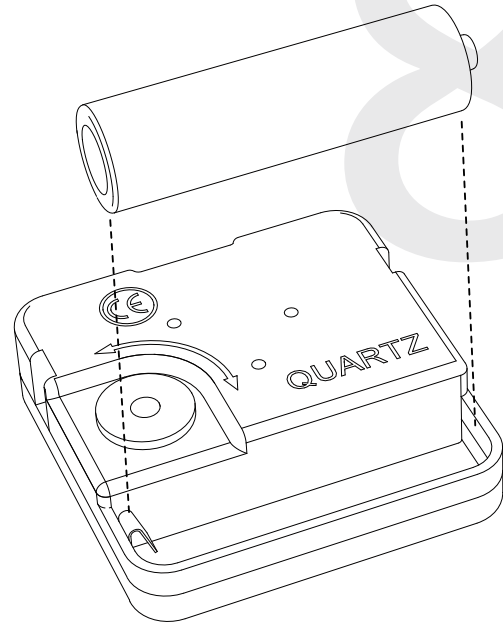
CEILING

Double Mount Installation - Round Metal Clock

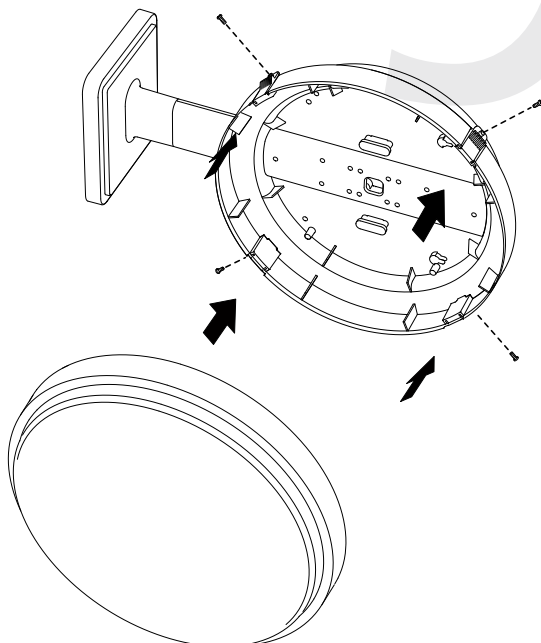
7) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.



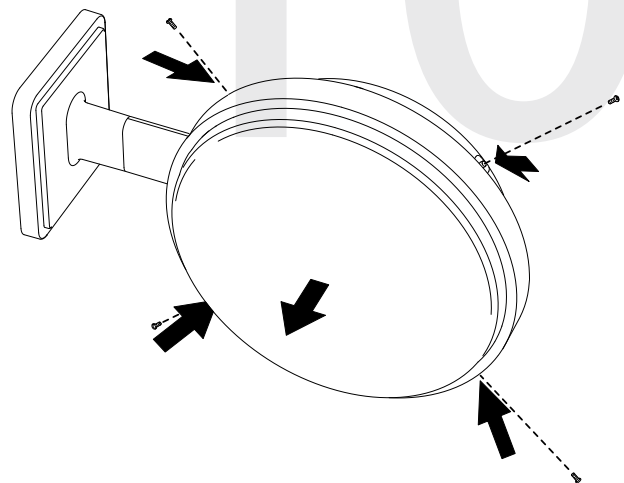
8) Insert the AA Battery into the battery slot on the movement. The clock will start to function.



9) Remove the outer adapter screws, then slide each clock onto the adapter in the rotation that you wish it to be viewed. You should hear a snapping noise as the four clips on the adapter secure the clock in place. Insert the screws again to complete the installation.

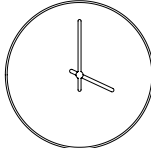
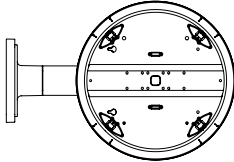
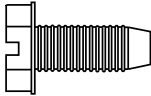
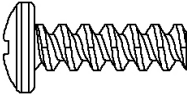
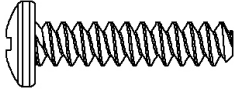




10) If you feel the need to detach the clock from the housing after the installation has been completed, remove the outer adapter screws, press down on the latches, and gently pull on the rim of the clock until the clock detaches.



Double Mount Installation - Round SlimLine/Aluminum Clock

Included in Package

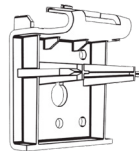
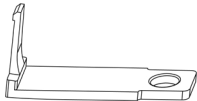


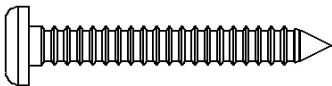
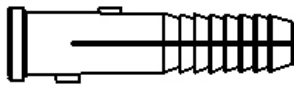
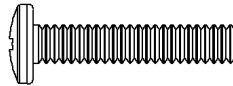

Description	Quantity	Picture
SAI round SlimLine analog clock	2	
Included in Double Mount Kit (SAH-1BD-12R-0 or SAH-1BD-16R-0)		
Dual-mount pole, including mounting plate.	1	
#10-32x3/8 green screw	1	
#8-32x7/16 screw	8	
M3.5-1.0x10 screw (black)	4	
Internal-tooth washer	8	
#6-32x1 screw	4	

Continued on next page

If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Double Mount Installation - Round SlimLine/Aluminum Clock

Included in Mounting Kits (A-SLM-MK-S-1) or (A-SLM-MK-AW)

Description	Quantity	Picture
Mounting Piece	2 (not used)	
Release lever	0 or 2 (not used)	
#6-19x7/16 screw	4	
Strain relief	2	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	2	
Wall anchor	2	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	4 (not used)	
#6-19x3/8 screw	2 (not used)	

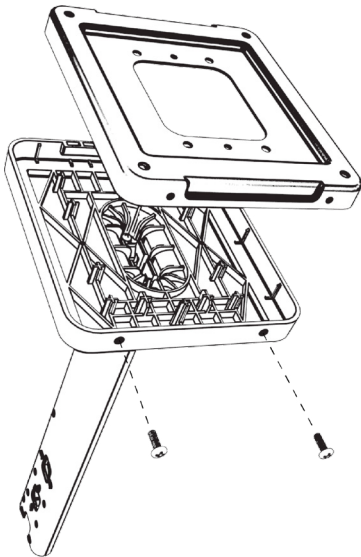
PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors (must support 50 lbs, #8 screw size, 1.5" (3.8cm) screw length), four #8 screws for the wall anchors, any equipment needed to install the gang box, and one AA battery.

If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

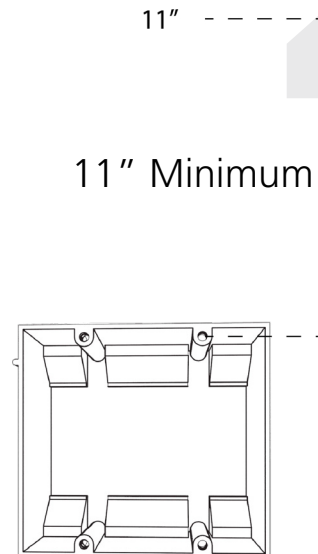
SlimLine and Aluminum Clocks use the same installation procedures for double mount housings.

Double Mount Installation - Round SlimLine/Aluminum Clock

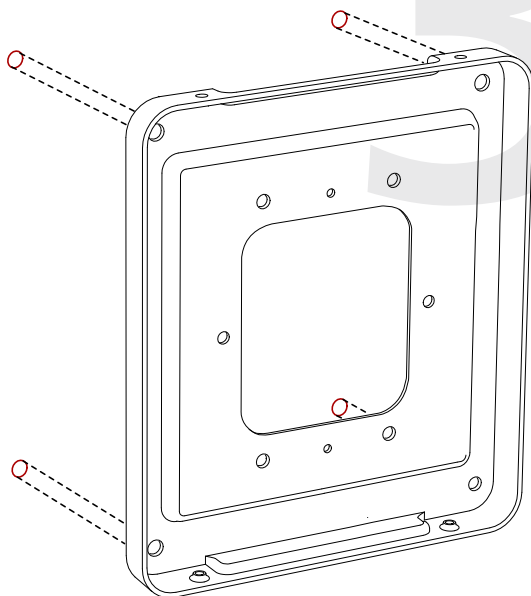
1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.



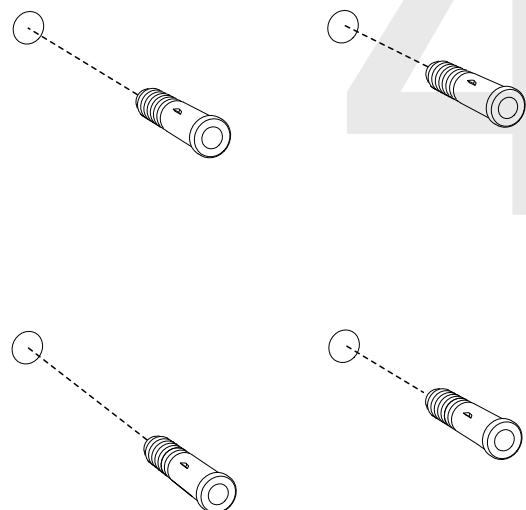
2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

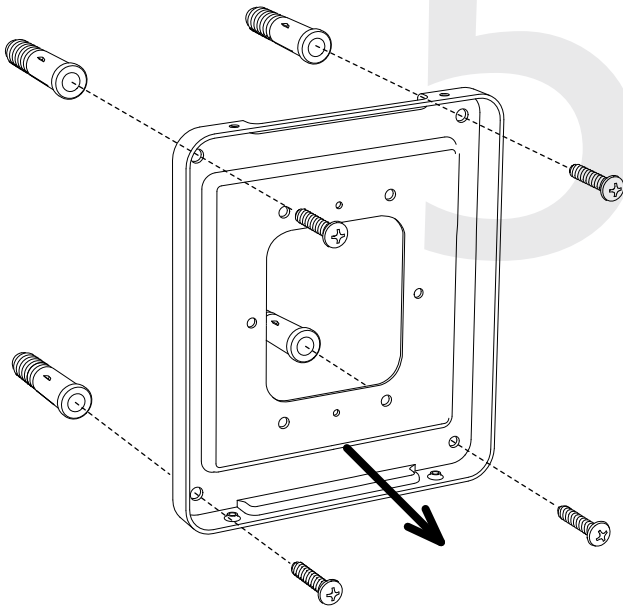


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

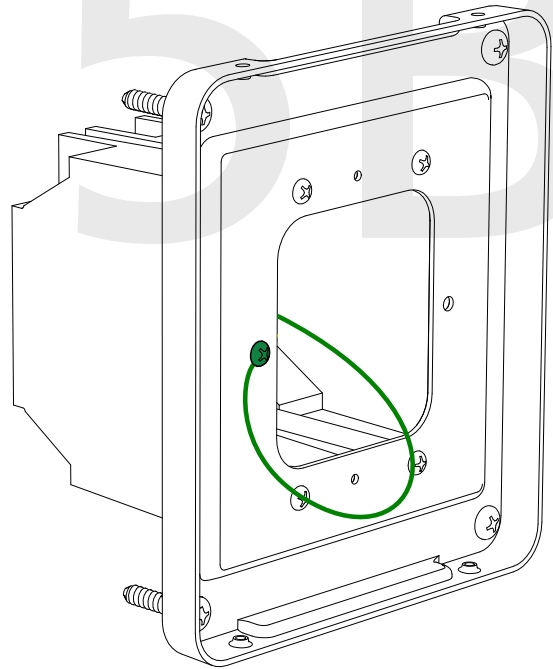


Double Mount Installation - Round SlimLine/Aluminum Clock

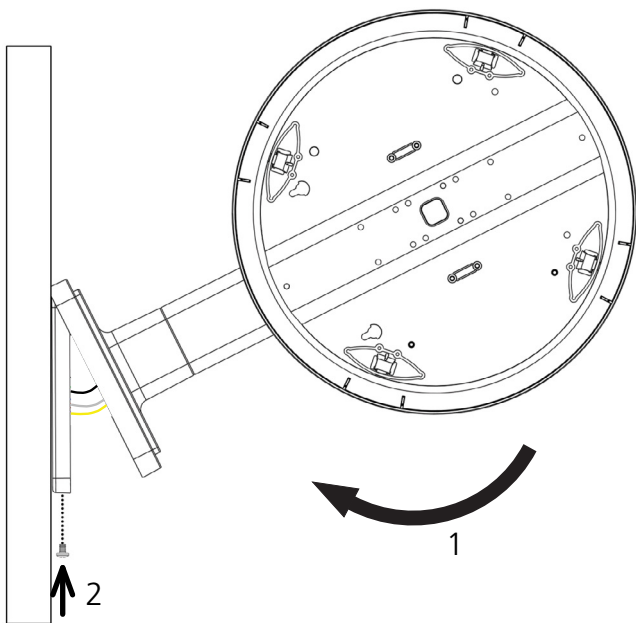
5) Insert the #8 screws through the mounting plate and into the anchors.



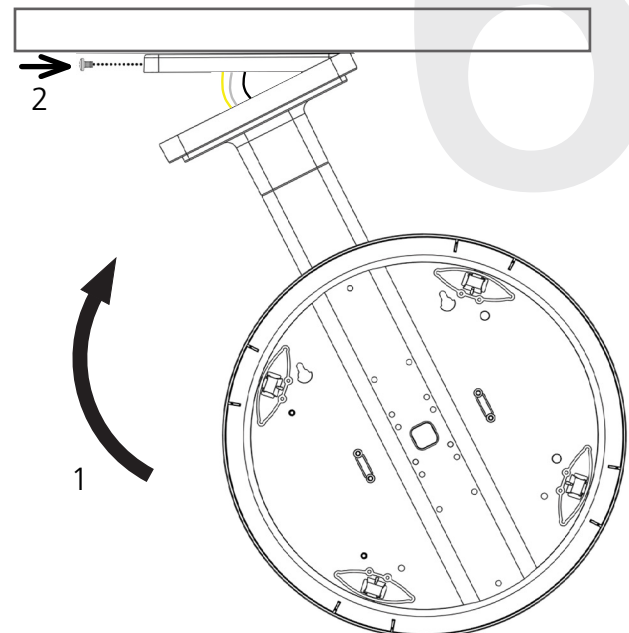
5B) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Attach the base of the pole to the mounting plate so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.



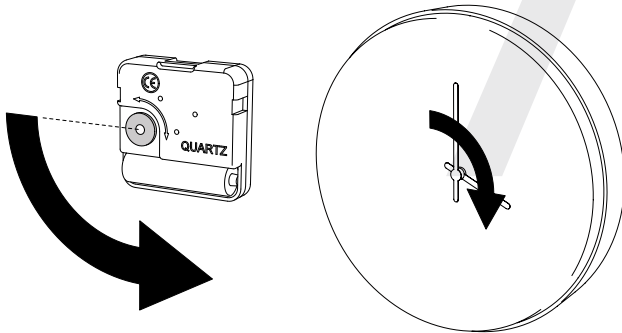
WALL



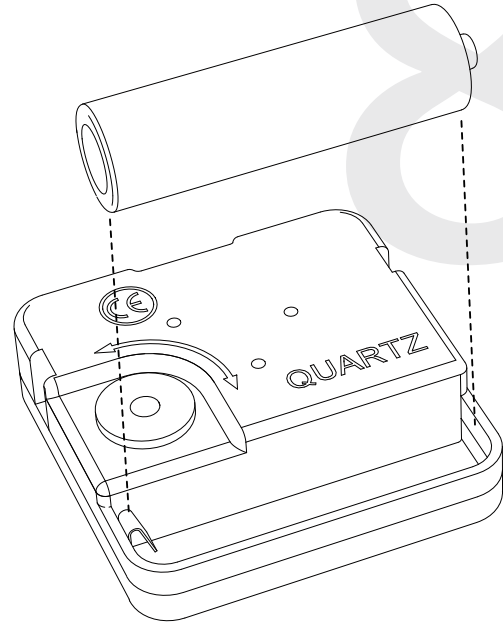
CEILING

Double Mount Installation - Round SlimLine/Aluminum Clock

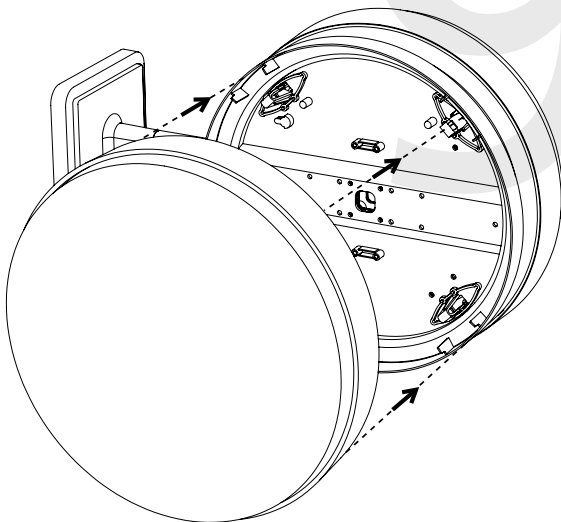
7) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.



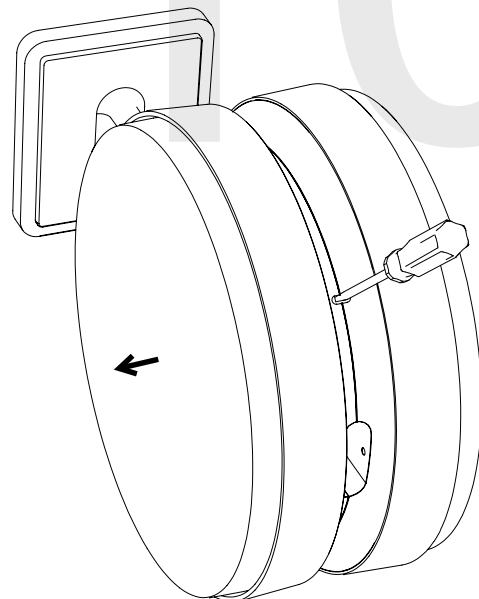
8) Insert the AA Battery into the battery slot on the movement. The clock will start to function.



9) Slide each clock onto the adapter in the rotation that you wish it to be viewed. You should hear a snapping noise as the four clips on the adapter secure the clock in place.

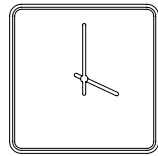
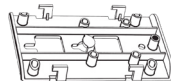
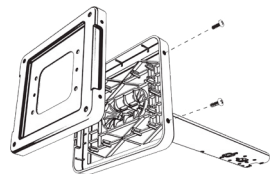
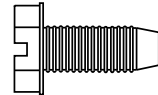

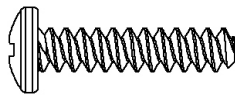


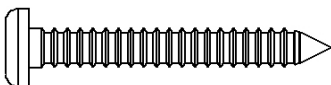
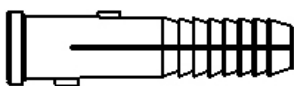
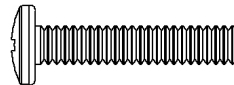



10) If you feel the need to detach the clock from the housing after the installation has been completed, use a flat-blade screwdriver on the four slots around the outside of the housing. You may hear a snapping noise as the internal latches disengage.



Double Mount Installation - Square Clock

Included in Package

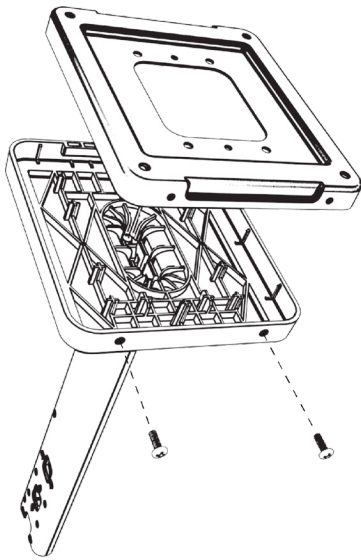
Description	Quantity	Picture
SAI square analog clock	2	
Mounting Piece-already attached to clock housing	2 (not used)	
Included in Pole Kit (SAB-4GD-00S-0 or SAB-1GD-00S-0)		
Dual-mount pole, including mounting plate.	1	
#10-32x3/8 green screw	1	
#8-32x7/16 screw	8	
M3.5-1.0x10 screw (black)	4	
Internal-tooth washer	8	
#6-32x1 screw	4	
Included in Wiring Kit (A-WK-MTG-1)		
#8x1.5 Self-tapping screw	4	
Wall anchor	4	
Included in Gang Box Kit (A-GB-MK-1)		
#6-32x1 screw	4 (not used)	
#6-19x3/8 screw	2 (not used)	

PLEASE NOTE: A user will also have to provide a Phillips-head screwdriver, a small flat-blade screwdriver, a drill with a 1/4 inch drill bit, a pencil, a double gang box, four wall anchors (must support 50 lbs, #8 screw size, 1.5" (3.8cm) screw length), four #8 screws for the wall anchors, any equipment needed to install the gang box, and one AA battery.

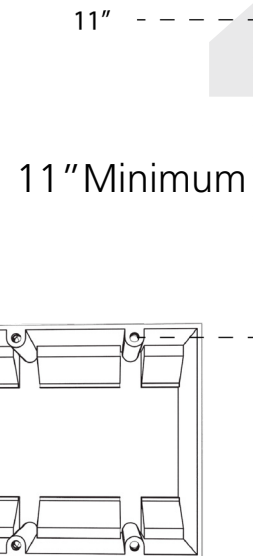
If any of the items listed in the kits are missing, you may contact your dealer and order a replacement kit.

Double Mount Installation - Square Clock

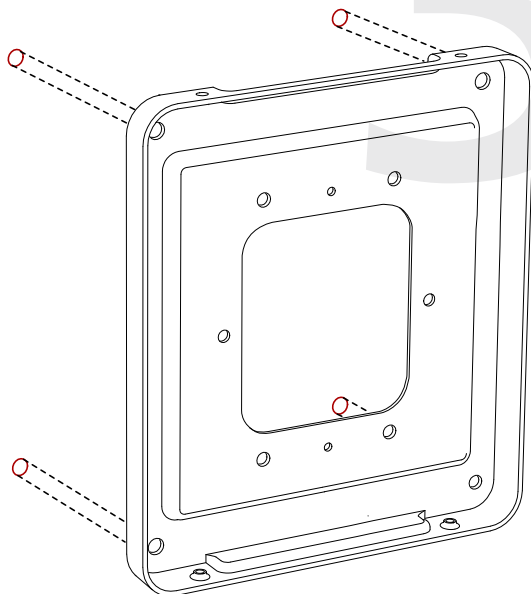
1) Detach the mounting plate from the mounting pole by unscrewing the two screws. Set the screws and pole aside for later.



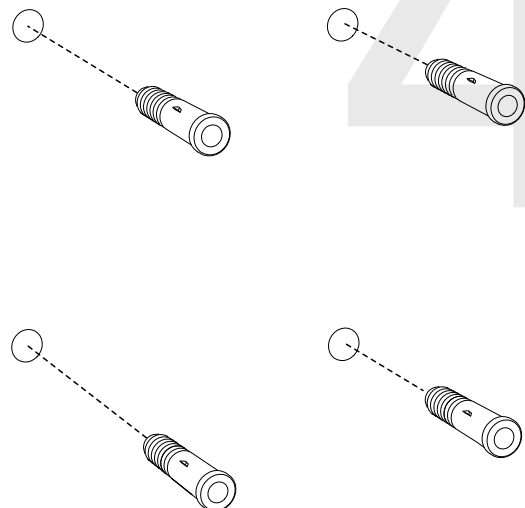
2) Place the mounting plate on the wall or ceiling. If you are installing a gang box in the wall, leave at least eleven inches between the top of the gang box and the ceiling. If you are installing the gang box in the ceiling, leave at least eleven inches between the gang box and the wall.



3) Confirm that the mounting plate is level with the floor. With the mounting plate as a guide, use the pencil to trace the locations of the four larger holes at the outer corners of the plate.

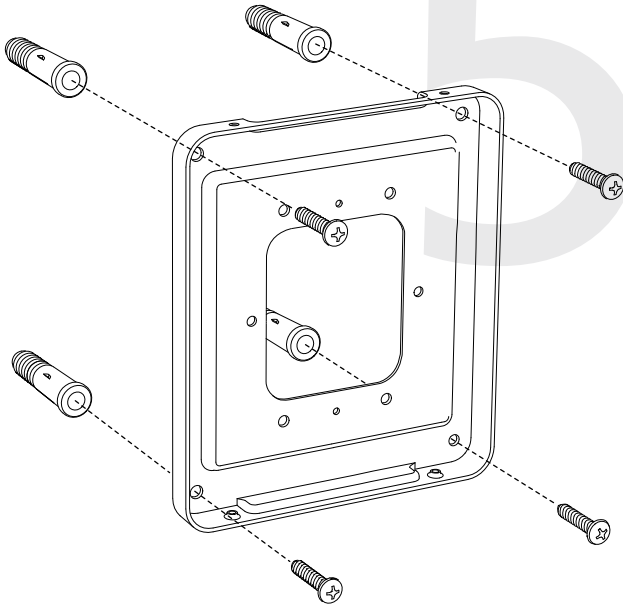


4) Remove the mounting plate and drill the four holes that were just traced. Insert the four wall anchors into the holes.

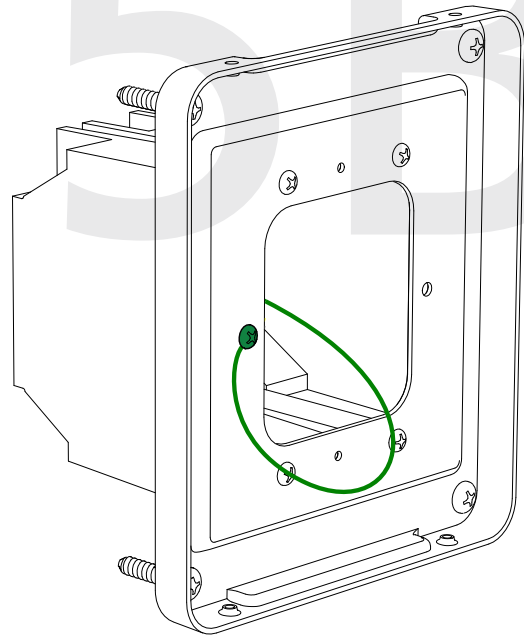


Double Mount Installation - Square Clock

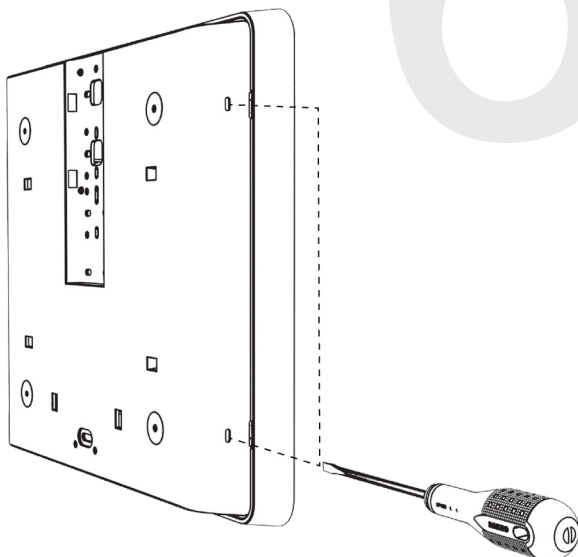
5) Insert the #8 screws through the mounting plate and into the anchors.



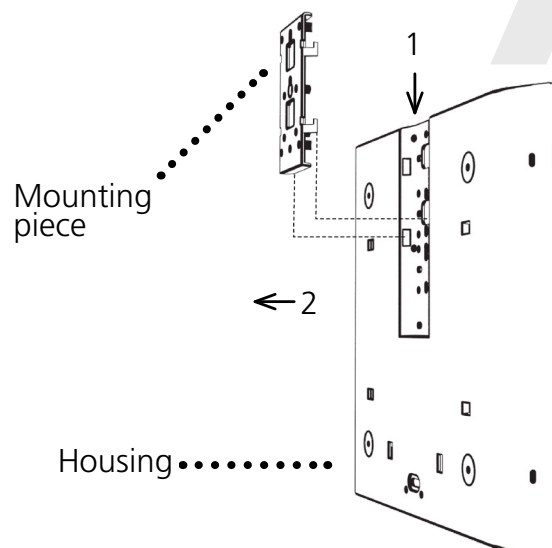
5B) If you are installing the clock atop a metal gang box, use the green screw to attach a grounding wire to the mounting plate.



6) Detach the housing from the back of each clock. Do this by inserting a flat-blade screwdriver about 1/8 inch into each of the slot holes until the piece detaches. You may hear a snapping noise as the latches disengage.

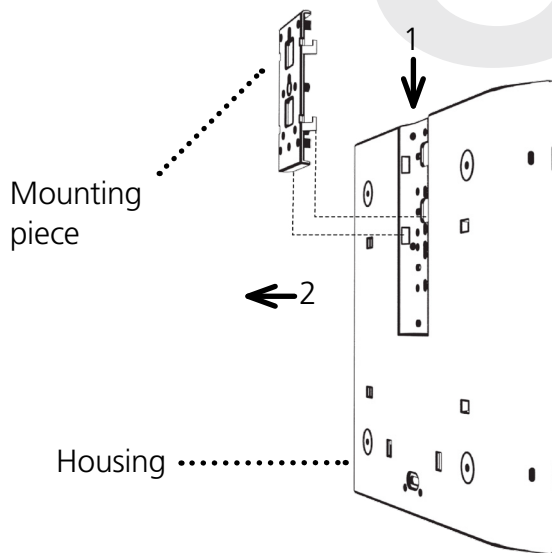


7) Release the mounting piece from the back of each housing by sliding it away from the center of the housing, then pulling it back and away from the housing. You will not need the mounting pieces later; either store them or throw them away at your discretion. **DO NOT THROW AWAY THE HOUSINGS.**

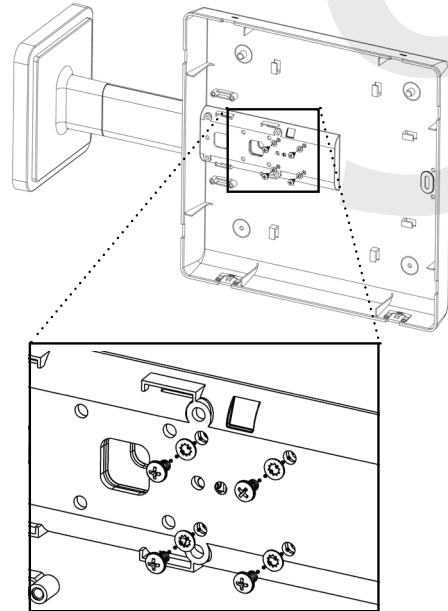


Double Mount Installation - Square Clock

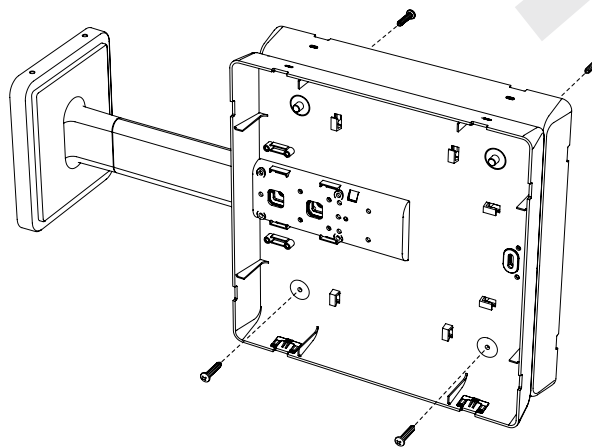
8) Release the mounting piece from the back of each housing by sliding it away from the center of the housing, then pulling it back and away from the housing. You will not need the mounting pieces later; either store them or throw them away at your discretion. **DO NOT THROW AWAY THE HOUSINGS.**



9) Attach both housings to the pole using four black 8-32x7/16 screws and four internal-tooth washers on each side.

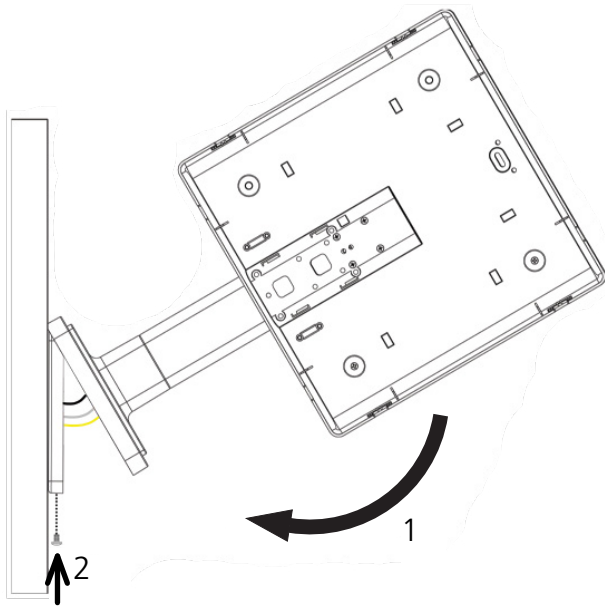


10) Attach the housings to each other using the four black M3.5-1.0x10 screws, two on each housing.

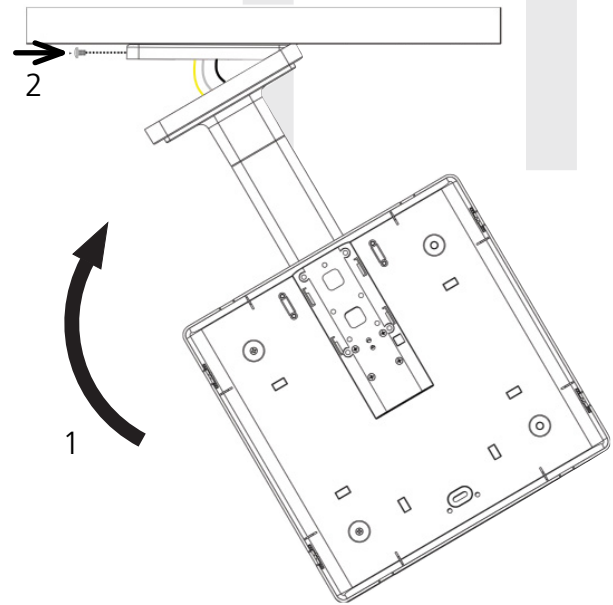


Double Mount Installation - Square Clock

11) Attach the base of the pole to the mounting plate, so that the lip is on the top of the base, and the holes for the screws are on the bottom of the base. Hang the base on the mounting plate, attach the wires from the bottom of the pole to the wires in the gang box, then screw the other side of the base onto the mounting plate using the two black screws you set aside before.

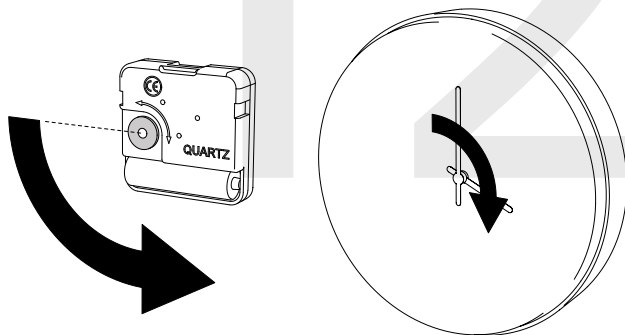


WALL

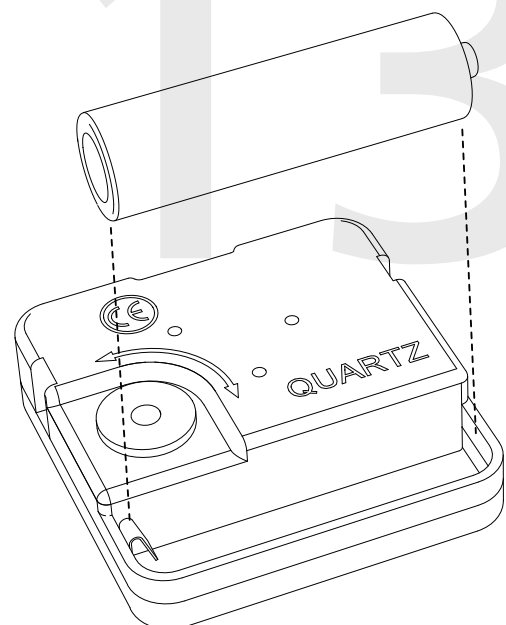


CEILING

12) Use the gray wheel on the movement to set the hour and minute hands. Rotate the wheel clockwise for an earlier time, or counterclockwise for a later time.

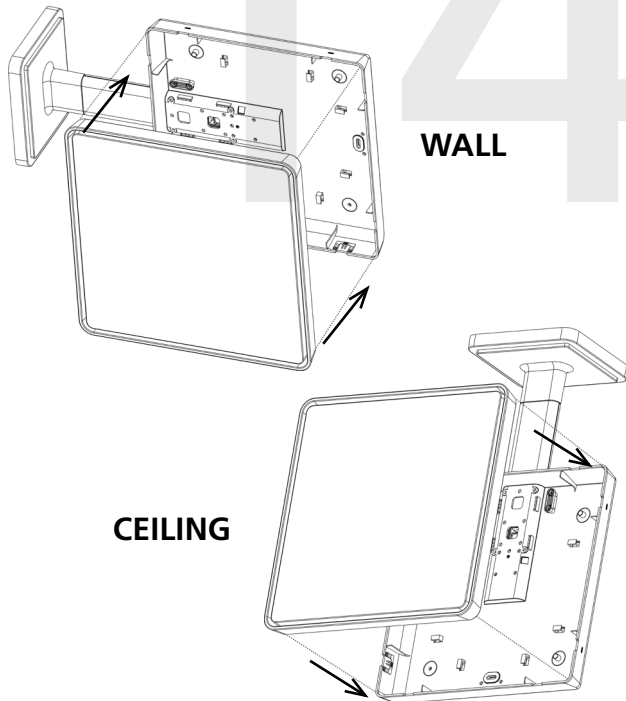


13) Insert the AA Battery into the battery slot on the movement. The clock will start to function.

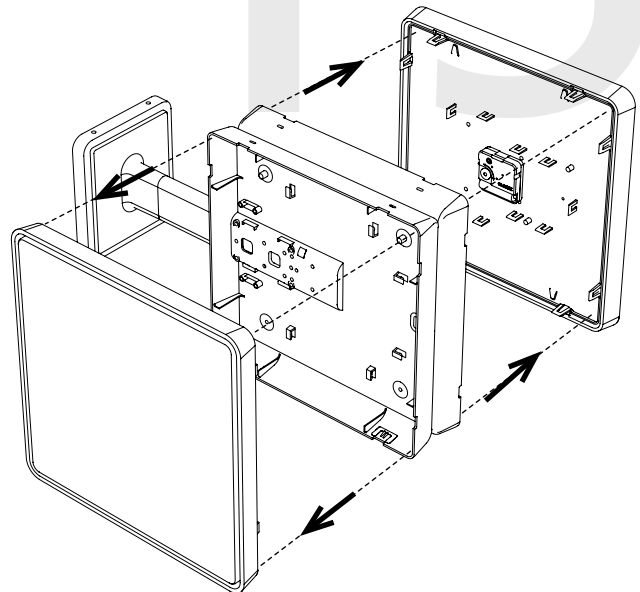


Double Mount Installation - Square Clock

14) Slide both clocks back into their housings. You should hear a snapping noise as the latches reengage.



15) If you feel the need to detach the clock from the housing after the installation has been completed, use a flat-blade screwdriver on the four slots around the outside of the housing. You may hear a snapping noise as the internal latches disengage.



Frequently Asked Questions

What battery size do I use for the clocks?

SAI clocks are designed to use a single AA battery.

I want to mount the clock on a utility/gang box. What size gang box is needed?

A standard single gang box can be used as a mounting point for wall-mounted square or round clocks. However, if you are installing a double mount clock pole, then a standard double gang box is required.

How often do I need to replace the battery?

An SAI clock takes about one year to consume a standard Duracell AA battery. This length of time may change depending on brand and battery type (standard vs. lithium). At minimum, the battery ought to be replaced within five years in order to avoid damage from a battery fluid leak.

How often do I need to correct the clock for time drift?

The SAI is a quartz clock, which means that the amount of drift per month depends on the temperature of the room that the clock is operating in. A clock kept at room temperature may drift less than one second per month, while a clock kept at significantly higher or lower temperatures may experience a drift of up to thirty seconds per month. The amount of drift observed after one month should dictate how often you should correct the clock.

How do I synchronize two SAI clocks?

The SAI is a standalone clock, and does not accept any kind of synchronization signal. Two SAI clocks can be made to give the appearance of synchronization by activating them simultaneously, or by setting the second clock to a later time and waiting until that time is displayed on the first clock to activate the second clock. Either way, this is not true synchronization, and the clocks will drift apart over time. The user is required to find their own master time source for comparison when initially setting the clocks.

How do I correct the clock for Daylight Saving Time?

The clock time can be modified by removing the battery, turning the gray wheel to change the time on the display, and reinserting the battery.

Can I manually set the time on the clock?

You can manually set the time by rotating the gray wheel on the clock movement. Do not attempt to change the displayed time using any other method; attempting to open the front crystal or moving the hands manually will damage the clock and void your warranty.

Troubleshooting

A battery has been inserted, but the clock is not running. What do I do?

Confirm that the battery was inserted the correct way. If the battery was properly inserted, try a different battery. If the clock still does not function, then the clock can be returned for maintenance.

One of the hands is broken/malfunctioning. What should I do?

Return the clock for maintenance.

Warranty

Sapling Limited Warranty and Disclaimer

The Sapling Company, Inc. warrants only that at the time of delivery and for a period of 24 calendar months after delivery or the period stated in this invoice, if different, the Goods shall be free of defects in workmanship and materials, PROVIDED that this warranty shall not apply:

To damage caused by Buyer's or any third party's act, default or misuse of the Goods or by failure to follow any instructions supplied with the Goods.

Where the Goods have been used in connection with or incorporated into equipment or materials the specification of which has not been approved in writing by The Sapling Company, Inc.;

To Goods which are altered, modified or repaired in any place other than a Sapling Company, Inc. factory or by persons not expressly authorized or approved in writing by The Sapling Company, Inc.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WITH RESPECT TO GOODS DELIVERED UNDER THIS CONTRACT, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The foregoing warranty runs only to Buyer. There are no oral or written promises, representations or warranties collateral to or affecting this contract. Representatives of The Sapling Company, Inc. may have made oral statements about products described in this contract. Such statements do not constitute warranties, shall not be relied on by Buyer and are not part of the contract.

Note: An extended 5 year (60 month) warranty is also available at the time of the system purchase with a surcharge.