

LIMITED LIFETIME WARRANTY ON SPEAKER PARTS

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship, provided the speaker was purchased from a SpeakerCraft Authorized Dealer. Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If upon examination at the Factory or SpeakerCraft Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a rea-

sonable time, freight prepaid. This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This Warranty will be void if the Serial Number on the product has been removed, tampered with or defaced. This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.



LIMITED 2-YEAR WARRANTY ON ELECTRONIC PARTS

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship for a period of two years, provided the product was purchased from a SpeakerCraft Authorized Dealer. Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If upon examination at the Factory or SpeakerCraft Authorized Dealer it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this warranty will be returned to the original retail purchaser,

within a reasonable time, freight prepaid. This warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This warranty also excludes normal cosmetic deterioration caused by environmental conditions. This warranty will be void if the Serial number on the product has been removed, tampered with or defaced. This warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed warranty. Some states do not allow limitation on the length of an implied Warranty. If the original retail purchaser resides in such a state, this limitation does not apply.



SpeakerCraft offers a variety of accessories to make your installation of these speakers and other SpeakerCraft products easy, economical, and professional. Contact your authorized SpeakerCraft Dealer for more information

Should you have any questions regarding this, or any other SpeakerCraft product, please call our toll-free service hotline at 1-800-448-0976. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.

SPECIFICATIONS			
	TIME Five	TIME Three	TIME One
Speaker Type:	Motorized Drop-Down In-Ceiling Speaker	Motorized Drop-Down In-Ceiling Speaker	Motorized Drop-Down In-Ceiling Speaker
High Frequency Driver:	1" Aluminum/ Magnesium Dome Tweeter	1" Aluminum Dome Tweeter	1" Silk Dome Tweeter
Low Frequency Driver:	8" Kevlar Cone Woofer	8" Aluminum Cone Woofer	8" Reinforced Fiberglass Cone Woofer
Impedance:	8 ohm	8 ohm	8 ohm
Sensitivity:	88dB 1W/1m	88dB 1W/1m	88dB 1W/1m
Frequency Response:	33Hz - 20kHz ± 2dB	37Hz - 20kHz ± 2dB	40Hz - 20kHz ± 2dB
Power Recommendations:	100 watts	100 watts	100 watts
Diameter x Depth:	11¾" x 11" (298.45 mm x 279.4 mm)	11¾" x 11" (298.45 mm x 279.4 mm)	11¾" x 11" (298.45 mm x 279.4 mm)
Cut-out Diameter:	9¾" (247.65 mm)	9¾" (247.65 mm)	9¾" (247.65 mm)
In our attempt to constantly improve our products, features and specifications are subject to change without notice.			



Congratulations on purchasing SpeakerCraft’s TIME Series of motorized drop-down architectural loudspeakers. The TIME Series features fully motorized tilting and rotatable woofers and tweeters, allowing the entire speaker to be aimed to create the ultimate listening environment possible from any ceiling speaker available. When the loudspeakers are not being used they are fully retracted into the ceiling and look like traditional ceiling speakers.

SPEAKER PLACEMENT

When following the below recommendations, please keep in mind that placement is always in the ceiling. TIME speakers can be used as a pair for stereo listening, or for all five channels of a home theater system: front left and right, center, and rear left and right. SpeakerCraft recommends the use of a qualified custom installation specialist when installing your TIME speakers. If you need assistance in locating an installer, please contact SpeakerCraft at 1-800-448-0976.

1. Determine Your Primary Listening Area

The area where you will most likely be sitting when listening to your speakers is your primary listening area.

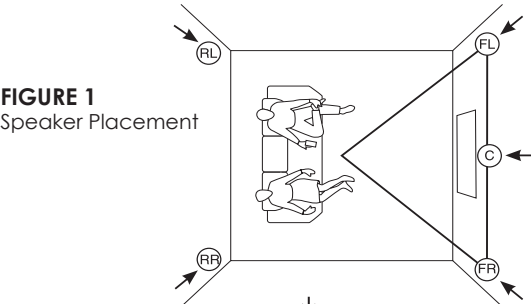
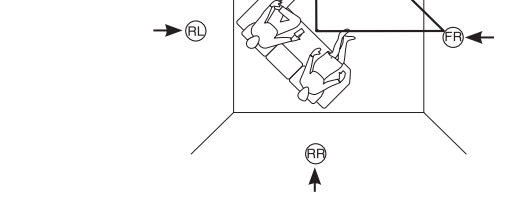


FIGURE 1
Speaker Placement



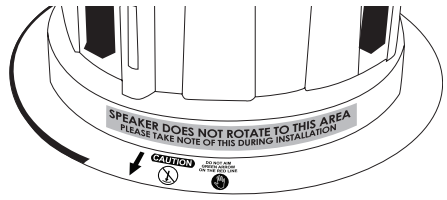
2. Loudspeaker direction

The loudspeakers have an area that the speaker can not be aimed towards. The Loudspeakers can rotate a total of 285 degrees so there is a part of the circle that the loudspeaker can not be aimed at. For each speaker location and use, the installer should consider where the loudspeaker will not be aimed and make sure that the loudspeaker, once installed is pointing away from that location. To determine the area on the speaker that can not be aimed locate the label indicating the “Speaker does not rotate to this area” on the rear enclosure of the loudspeaker. This label is shown in **Figure 3**. Suggested areas for each speaker location are

shown on the diagrams with arrows indicating direction of the label. Please make sure that the label is pointed in the right direction when installing the speaker.

FIGURE 3

Speaker does not rotate to this area label



NOTE: Warning markings in **Figure 4** are intended for service and repair only. Please disregard during installation.

FIGURE 4

Warning Markings



3. Placement of Stereo Pair / Front Channels for Home Theater

Consider how far apart the speakers should be. To do this, think of your listening area as one tip of a triangle with each leg of the triangle being equal. See speakers FL (front left) and FR (front right) in **Figure 1**. Place the speakers as close as possible to the two points the represent on the triangle. If the speakers are to be part of a home theater speaker system, they should be placed as close as possible to the area.

4. Placement of Center Channel for Home Theater

Place the center channel speaker in line between the front left and right speaker directly above the screen. See C (center) in **Figure 1**.

5. Placement of Rear Channels for Home Theater

Rear channels should be placed behind the listening area. See RL (rear left) and RR (rear right) in **Figure 1**.

6. Checking for Obstructions

Before confirming the placement of the speakers, you should carefully consider the location of ceiling joists, electrical, plumbing and other fixtures that may get in the way. If you are installing the speakers into an existing ceiling, you can locate obstructions by noting the placement of fixtures and, if possible, gaining access to an attic or crawl space for further analysis. A good stud-finder, found at any building supply store, will help you determine where the joists are located in the ceiling.

INSTALLATION CONSIDERATIONS

Prior to the actual installation of the speakers, it will be necessary to run cables to the speaker location from the amplifier and from the Time Control Hub. You will need to run at least 16 AWG cable from the amplifier to the Loudspeaker. Make sure you connect the positive terminal of the amplifier output to the positive terminal of the Loudspeaker, for each

Loudspeaker. Reversing the polarity of loudspeakers installed within one room will negatively affect the bass response in the room. From the Time Control Hub you will install Cat 5 Cable with RJ45 connectors on both ends. Use Cat 5 cable with 4 twisted pairs of wire with each RJ45 connector on each end of cable connected as follows (this is referred to as T568B straight thru wiring). See **Figure 5** for the correct wiring of this cable. **NOTE:** Incorrect wiring of the RJ45 Connectors could result in permanent damage to the loudspeaker. See your Authorized SpeakerCraft dealer for more detailed information on cable installation.

After the cables have been installed, you are ready to mount the speakers. Preparation for and mounting of the speakers can happen at two different stages, if you are building a new ceiling, follow the section titled INSTALLATION PREPARATION - NEW CONSTRUCTION. If you are placing the speakers into an existing ceiling, follow INSTALLATION PREPARATION - FINISHED CEILING. There are different considerations for each application. Please carefully follow the recommendations for your application.

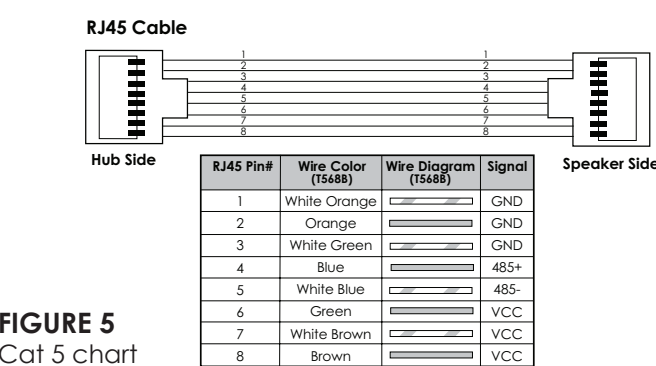


FIGURE 5

Cat 5 chart

INSTALLATION PREPARATION - NEW CONSTRUCTION

When installing the speakers into a newly built ceiling, please follow these instructions carefully:

1. Determine Placement

Determine where in the ceiling the speakers will be placed using the recommendations under SPEAKER PLACEMENT. Pay careful attention to the section on avoiding obstructions.

2. Mount InstaLock Bracket

For best results, mount the SpeakerCraft InstaLock New Construction Brackets for the TIME8 Series (Part No. BKT90681) following the instructions included with the bracket.

3. The Location is Ready for Drywall

The bracket provides a stable opening around which the drywall installer can cut out an opening, providing a perfect location for installation of the TIME8 Series speaker.

INSTALLATION PREPARATION - FINISHED CEILING

When the speakers will be installed into a finished ceiling, please follow these instructions carefully:

1. Determine Placement

Determine where in the ceiling the speakers will be placed using the recommendations under SPEAKER PLACEMENT. Pay careful attention to the section on avoiding obstructions.

2. Locate Obstructions

Find the joists nearest the desired speaker mounting location. The use of a good stud-finder tool is highly recommended for this procedure. Make sure that there are no joists or obstructions where you plan to install the speaker. Read “Checking for Obstructions” under the section SPEAKER PLACEMENT.

3. Trace Template

Place the cut-out template at the location you have decided to place the speaker. Use a few pieces of tape or small tacks to hold the template in place. Trace an outline on the ceiling with a pencil.

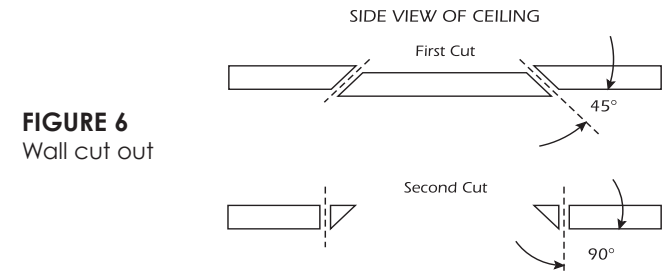


FIGURE 6

Wall cut out

4. Cut the Hole

CAUTION: This is the most important part of the entire installation. If you are not certain whether or not an obstruction exists behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw. Cut at a 45° angle towards the inside of the hole. **Figure 6**. Cutting the small hole at this angle will make drywall repair much easier as the piece cut out can be installed neatly back into the hole. Once you have determined there are no obstructions in your desired mounting location, start cutting the finished hole at a 90° angle to the ceiling surface.

SPEAKER INSTALLATION

The unique integral four foot mounting system incorporated into each speaker allows for quick installation following these easy steps:

1. Remove the grille

Unlike other SpeakerCraft loudspeakers, the grille is mounted to a plastic trim ring that snaps off the inner baffle of the loudspeaker, make sure that you remove the plastic trim ring and grille at the same time. **NOTE:** Make sure that the dog screws are clearly accessible from the front of the speaker. If not, you may need to temporarily connect the loudspeaker to a Time Control Hub, power on the control hub and press and hold the preset 3 key on the Time Remote. This will move the speaker baffles so the openings in the inner can align with the dog mounting screws.

2. Attach the speaker cable

Observing the proper polarity with your amplifier: + to + and – to –). Make sure the proper channel of the amplifier is connected to the proper speaker. Left Amp Channel to Left Speaker, Right Amp Channel to Right Speaker, Center Amp Channel to Center Speaker, Right Rear Amp Channel to Right Rear Speaker, Left Rear Amp Channel to Left Rear Speaker, etc.

3. Attach the RJ45 connector

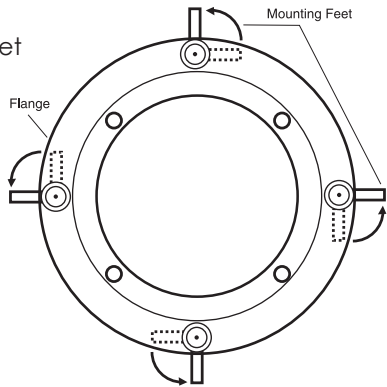
From the Time Control Hub to the loudspeaker. Make sure the RJ45 connector snaps into place. **CAUTION:** The RJ45 connector on the TIME8 Loudspeaker is designed to only accept a cable connector to the TIME Control Hub. Connecting the other end of the RJ45 Cable to any other connection other than the RJ45 connector on the Time Control Hub may seriously damage the loudspeaker and void the warranty on the loudspeaker. **NOTE: Do not connect the RJ45 Cable to the loudspeaker with the TIME Control Hub Powered On. Permanent damage to the loudspeaker could occur.**

4. Mount the speaker

Make sure the mounting feet are turned inward to clear the opening, and insert the speaker into the ceiling. Position the speaker into the hole. **Note:** The flange of the speaker is designed to flex and conform to any small imperfections in the ceiling surface. Tighten the 4 screws on the front of the baffle only enough to make the flange become snug against the ceiling. As you tighten the screws, the feet will automatically flip into an outward position, see **Figure 7**, clamping the drywall between the feet and the flange. **CAUTION:** Over tightening may warp the baffle, crack the ceiling, cause the flange to distort, and make the grille difficult to install.

FIGURE 7

Speaker Mounting Feet



5. Install the grille

Gently snap it back onto the inner baffle and be sure that it is flush and tight to the loudspeaker surface.

6. To aim the loudspeaker

Follow the installation and programming guide of the TIME Control Box and remote control.

REMOVING AN INSTALLED LOUDSPEAKER

1. Select speaker with remote. Press and hold preset 3 for 5 seconds. This aligns baffle to screw holes.
2. Remove the grille.
3. Loosen dogs until they snap back against the can.
4. Remove speaker.

PAINTING THE SPEAKERS

If you plan to paint your speakers, we recommend that it be done prior to installation. If you decide to paint your speakers sometime in the future, it is best to remove them by simply reversing the steps for SPEAKER INSTALLATION listed above.

When painting the speakers, the paint masks provided in the carton must be installed in place of the grille. The grilles can also be painted. However, great care should be taken not to clog the holes, as this will greatly reduce the sound quality of the speakers.

Before painting the grilles, remove the cloth material under grille. Place this material back in place once the grille has been painted. SpeakerCraft recommends only light spray painting using 5 parts thinning agent to 1 part paint. Do not paint the grilles while they are attached to the speaker. If it is necessary to paint the material under the grille, follow the same procedure used to paint the grilles.