

COMM SAT

SPEAKER SYSTEM

OWNER'S MANUAL



COMM SAT SPEAKER SYSTEM

IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.



WARNING: Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

CAUTION: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

ABOUT YOUR KLIPSCH PURCHASE

Thank you for purchasing the Klipsch Comm Sat speaker system.

The Comm Sat speaker system is designed for music reinforcement applications. The speakers are engineered for easy, unobtrusive installations and can be used to create a variety of different configurations.

The models that can be used to create a typical Commercial Music System CMS-4.1 configuration are:

Comm Sat – Small high frequency satellite speaker. Two or Four of these can be used with each Comm Sat Network.

Comm Sat Mount – Adjustable mount that can be used for either ceiling or wall applications.

Comm Sat Network – Transformer for 70V/100V distributed line systems as well as the crossover network for the Comm Sat and either the IC-8T-SW flush-mount subwoofer or the CA-800-TSW surface-mount subwoofer.

Subwoofer – You may use either the IC-8T-SW flush-mount subwoofer or the CA-800-TSW surface-mount subwoofer with this system. One of either of these can be used with each Comm Sat Network.

Before installing your Comm Sat speakers, please take a moment to check the contents of the cartons and make sure that nothing has been damaged in transit. Refer to Diagram 1 for typical installation.

INSTALLATION GUIDELINES

Caution: Be sure to comply with any and all building codes in your area.

1. Remove faceplate (which has Network assembly attached to it) from metal enclosure and mount the metal enclosure for the Comm Sat Network at the distribution point for the wires to be connected to it. The enclosure will accept appropriate conduit/wire adapters (not included). Feed wires through conduit/wire adapter and connect to the terminal strip according to the desired operation mode. Be sure to observe proper polarity. Replace enclosure cover after completing all connections properly and tighten the conduit/wire adapters to secure the wires. See Figure 1.

Caution: When connecting 70V or 100V distributed line systems, take care to ensure proper terminal connections. Incorrect connections could result in speaker damage, amplifier damage, or both.

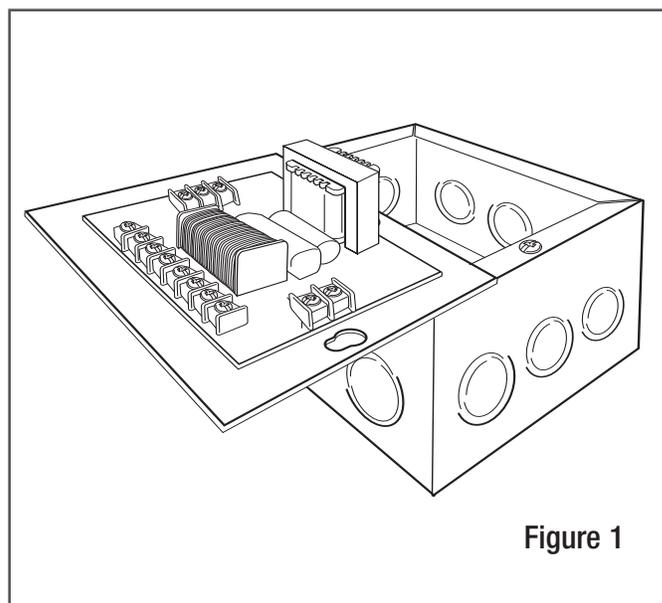


Figure 1

2. Install the Comm Sat Speakers and Mounts. First, attach the Speaker to the Mount post (included with the Mount). Simply thread the post into the speaker until hand tight. Now pull the wire pigtail attached to the Comm Sat through the hole in the Mount tube and plate and make your connections in the box behind the plate. Once you have done this, attach the plate to the box. With the adjustment point on the Mount loose, adjust Speaker direction as desired. Tighten adjustment point on the Mount with the supplied tool after the Speaker is aimed as desired. See Figure 2.

Caution: Attempting to adjust the Speaker direction after the Mount adjustment point has been tightened may result in Mount failure.

The Comm Sat is designed to be mounted to the Comm Sat Mount only.

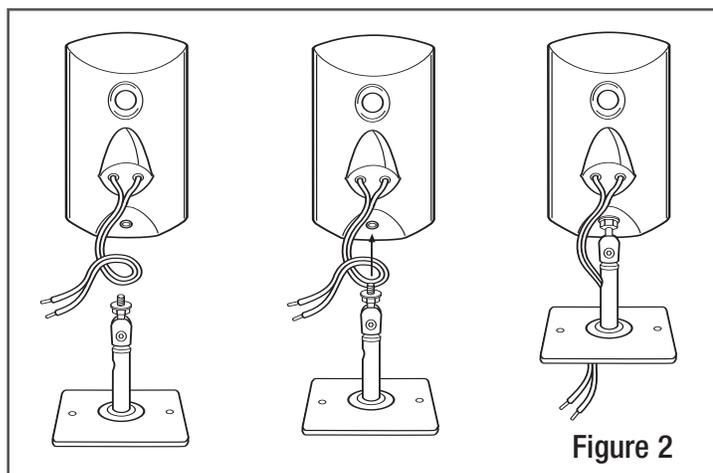


Figure 2

3. Install the Subwoofer of your choice, (You may use either the IC-8T-SW flush-mount subwoofer or the CA-800-TSW surface-mount subwoofer with this system) following the installation instructions that are supplied with the subwoofer.

WARRANTY— U.S. AND CANADA ONLY

The Warranty below is valid only for sales to consumers in the United States or Canada.

KLIPSCH AUDIO TECHNOLOGIES warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of five (5) years from the date of purchase. During the Warranty period, KLIPSCH will repair or replace (at KLIPSCH's option) this product or any defective parts (excluding electronics and amplifiers). For products that have electronics or amplifiers, the Warranty on those parts is for a period of two (2) years from the date of purchase.

To obtain Warranty service, please contact the KLIPSCH authorized dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your KLIPSCH product, it can be returned, freight paid, to KLIPSCH for repair. Please call KLIPSCH at 1-800-KLIPSCH for instructions. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the Warranty period, must be presented or included to obtain Warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a KLIPSCH authorized dealer. You may call 1-800-KLIPSCH to confirm that you have an unaltered serial number and/or you purchased from a KLIPSCH authorized dealer.

This Warranty does not cover cosmetic damage or damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than KLIPSCH or a KLIPSCH dealer which is authorized to do KLIPSCH warranty work. Any unauthorized repairs will void this Warranty. This Warranty does not cover product sold AS IS or WITH ALL FAULTS.

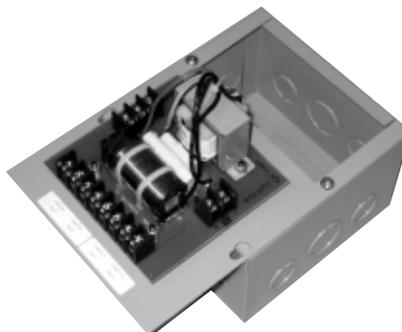
REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. KLIPSCH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

WARRANTY— OUTSIDE THE UNITED STATES AND CANADA

The warranty on this product if it is sold to a consumer outside of the United States or Canada shall comply with applicable law and shall be the sole responsibility of the distributor that supplied this product. To obtain any applicable warranty service, please contact the dealer from which you purchased this product, or the distributor that supplied this product.

COMM SAT NETWORK SPECIFICATIONS



COMM SAT NETWORK

BANDWIDTH ¹	n/a
TRANSFORMER TAPS	70V: 30W, 100V: 60W
CROSSOVER	100Hz 12dB/Octave highpass
INPUT CONNECTORS	Barrier strip
ENCLOSURE MATERIAL	Steel
HEIGHT	4.375" (11.1cm)
WIDTH	6.125" (15.6cm)
DEPTH	6.125" (15.6cm)
WEIGHT	5 lbs. (2.3kg)
SHIPPING WEIGHT	6 lbs. (2.7kg)
FINISH	Gray

COMM SAT SPEAKER SPECIFICATIONS



COMM SAT SPEAKER

BANDWIDTH¹	120Hz-20kHz ± 4dB (-10dB @ 42Hz)
POWER HANDLING²	70W (15.5V @ 3.2 ohm input)
MAX CONT. SPL³	107dB
SENSITIVITY⁴	90dB @ 2.83 volts/1 meter
NOMINAL IMPEDANCE	8 ohms (3.2 ohm minimum @ 5.5Hz)
HIGH FREQUENCY CROSSOVER	4900Hz
DRIVE COMPONENTS	Two-way system using one .75" (1.9cm) magnetically shielded, cloth dome compression driver tweeter with a 90° x 40° Tractrix® Horn and one 3.5" (8.9cm) magnetically shielded, poly cone woofer
HIGH FREQUENCY HORN	90° x 40° Tractrix® Horn
SYSTEM CROSSOVER	Comm Sat Network Required
INPUT CONNECTORS	Pig tail wire attached
ENCLOSURE TYPE	Bass reflex via rear-mounted port
ENCLOSURE MATERIAL	Stone mineral compound
HEIGHT	7.5" (19.1cm)
WIDTH	4.25" (10.8cm)
DEPTH	6.4" (16.2cm)
WEIGHT	4 lbs. (1.8kg) / each
SHIPPING WEIGHT	8 lbs. (3.6kg) / pair
FINISH	Black or White
MOUNTING	Comm Sat Mount (optional)

1 3M, Half-space anechoic

2 AES Standard, continuous pink noise 50Hz-10kHz, 6dB peaks

3 Calculated at 1M half-space at power handling power input

4 SPL at 1M, half-space anechoic with 2.83V input

SUBWOOFER SPECIFICATIONS



CA-800-TSW

FREQUENCY RESPONSE¹	51-135kHz ± 4dB -10dB 42Hz
POWER HANDLING²	150W (25V)
MAX CONTINUOUS OUTPUT³	111dB
SENSITIVITY (2.83V/1M)⁴	92dB
NOMINAL IMPEDANCE	6 ohms (4 ohm min @92Hz)
CROSSOVER	12dB/Octave low-pass, 150Hz
TRANSDUCERS	One 8" woofer with IMG cone
ENCLOSURE TUNING	Vented System via front firing ports
ENCLOSURE MATERIAL	All-weather ABS plastic, paintable
INPUT CONNECTORS	4 point terminal strip
TRANSFORMER TAPS	70V: 60W, 30W, 15W, 7.5W, 3.75W 100V: 60W, 30W, 15W, 7.5W
HEIGHT	11.125" (28.26cm)
WIDTH	16.375" (41.53cm)
DEPTH	12.313" (31.28cm)
WEIGHT	20 lbs. (9.07kg)

1 3M, half space anechoic

2 AES standard, continuous pink noise 50Hz-10Hz, 6dB peaks

3 Calculated at 1M at power handling power input

4 SPL at 1M, half-space anechoic with 2.83V input



IC-8T-SW

BANDWIDTH¹	53-129HZ ± 4dB (-10dB 44Hz)
POWER HANDLING²	150W (27V @ ohm input)
MAX CONTINUOUS OUTPUTS³	111dB
SENSITIVITY⁴	92dB @ 2.83 volts/1 meter
SWITCH TAPS	4 Ohm Mono Position/Thru Position: 4 ohm Mono or 8 ohm Stereo
NOMINAL IMPEDANCE	6 Ohms (4.85 minimum @ 145 Hz)
TRANSDUCERS	One 8" woofer and One 8" drone, Polypropylene cone
ENCLOSURE	Bandpass Enclosure (Drone Loaded)
ENCLOSURE MATERIAL	Baffle: ABS Plastic/Can: Formed Steel
INPUT CONNECTORS	4 point terminal strip
TRANSFORMER	70/100V Position- 60W/120W
HEIGHT	13.625" (34.6075cm)
DIAMETER	14.125" (35.8775cm); 12.5" (cutout diameter)
MOUNTING DEPTH	11.25" (29.9cm)
NET WEIGHT	23 lbs. (10.4kg)
SHIPPING WEIGHT	30 lbs. (13.6kg)
FINISH	White
MOUNTING	Tilebridge (included)

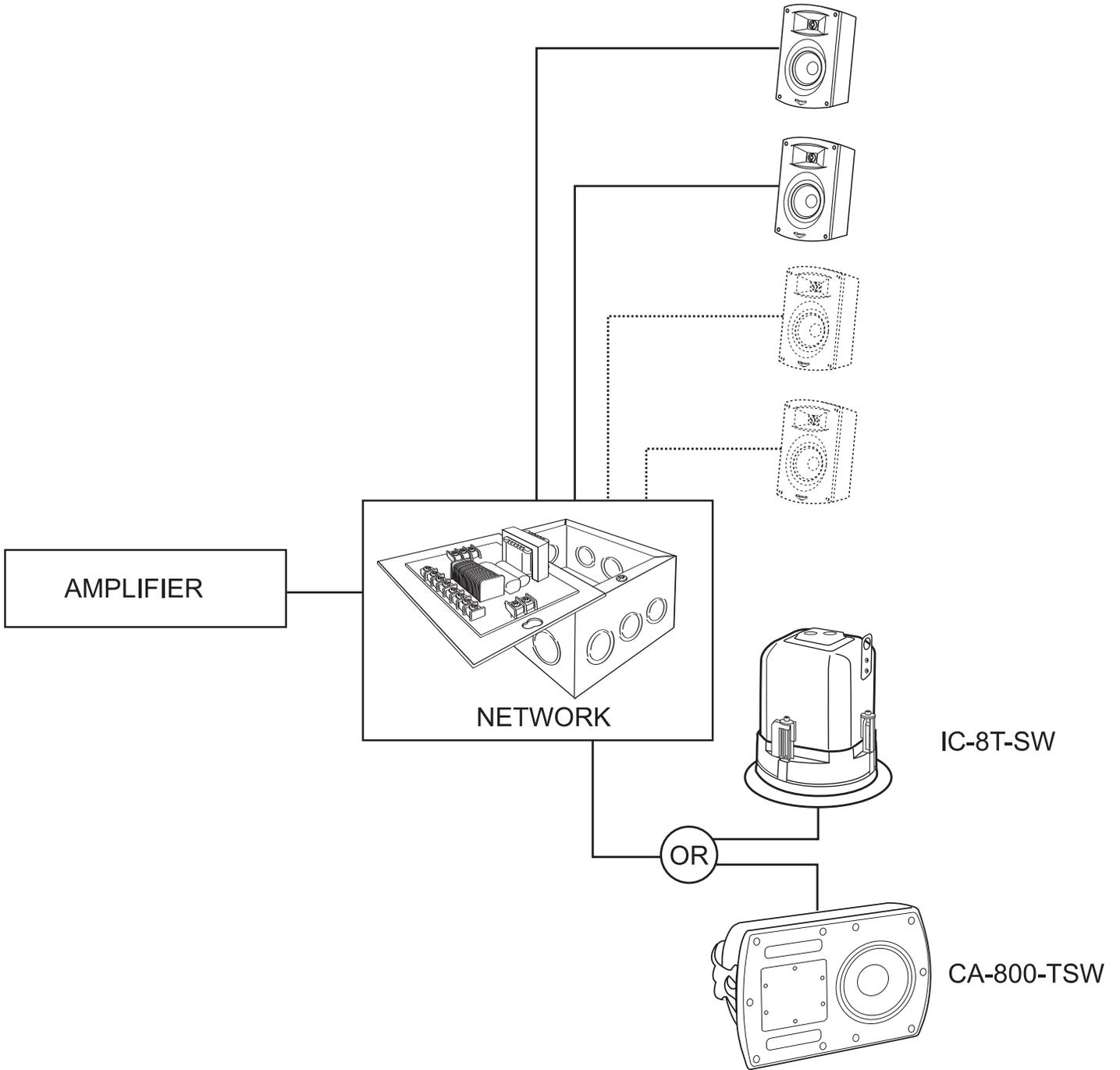
1 3M, Half-space anechoic

2 AES Standard, continuous pink noise 50Hz-10kHz, 6dB peaks

3 Calculated at 1M half-space at power handling power input

4 SPL at 1M, half-space anechoic with 2.83V input

TYPICAL INSTALLATION-DIAGRAM 1





3502 Woodview Trace, Suite 200
Indianapolis, Indiana 46268 USA
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