

## TECHNICAL ASSISTANCE

When trouble is reported, verify there are no broken connections leading to the speaker. Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and a lineman's test set available and be calling from the job site. Call (540) 563-2000 and ask for Technical Support, or (540) 767-1555 for Clarity 24-hour Faxback System or visit our website at <http://www.clarity-com.com>.

CLARITY equipment is not field repairable. CLARITY maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem. Send the unit to:

*Clarity  
Repair and Return Dept.  
5614 Hollins Road  
Roanoke, VA 24019-5056*

### **LIMITED WARRANTY**

Clarity warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. Inspection by Clarity indicates the validity of the claim,
2. the defect is not the result of damage, misuse, or negligence after the original shipment,
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged),
4. freight charges for the return of products to Clarity are prepaid,
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

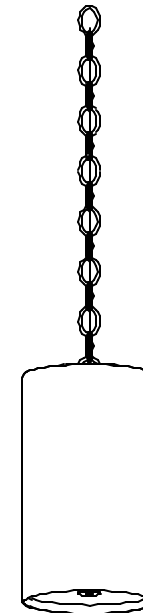
**This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

## INSTALLATION INSTRUCTIONS FOR

# Clarity®

## PENDANT SPEAKERS



## MODEL NO. S-520B

## CLARITY PENDANT SPEAKERS

Clarity Pendant Speaker, S-520B, incorporates a speaker / transformer / baffle assembly for use with any Clarity Mixer-Amplifier to provide background music or voice paging indoors or out. The speaker can operate on 25, 70 or 100 Volt lines or connect direct to an 8-ohm output, thus bypassing the transformer. Cable extending from the unit provides easy connection. The speaker is weather-resistant and is available in white, black, gray or custom color.

|                 |       |
|-----------------|-------|
| Model S-520B-W  | White |
| Model S-520B-BK | Black |
| Model S-520B-GY | Gray  |

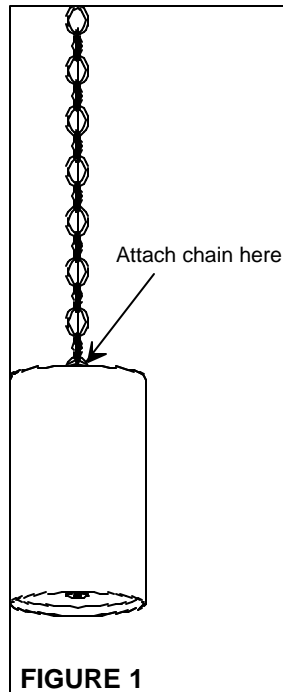
### TECHNICAL SPECIFICATIONS

|                            |                           |
|----------------------------|---------------------------|
| Frequency Response:        | 100 - 10KHz               |
| Maximum Power Capability:  | 30 watts                  |
| SPL 1 watt / 1 meter 1KHz: | 93dB                      |
| Speaker:                   | 5" w/10 oz. magnet, 8-ohm |

### INSTALLATION

The S-520B Pendant Speaker is designed to be suspended from a ceiling using the enclosed chain. The chain is not attached to the ring at the top of the speaker to prevent damage to the speaker's finish during shipping. To install the chain, open the link on the end of the chain and loop the link through the ring located on the top of the speaker (See Figure 1) and close the link. Make sure the chain is securely fastened to the ceiling.

The area covered by a pendant speaker is determined by the suspended height of the speaker.



|                             |     |     |     |     |      |
|-----------------------------|-----|-----|-----|-----|------|
| <i>Suspended Height</i>     | 8   | 10  | 12  | 16  | 20   |
| <i>Spacing</i>              | 16  | 20  | 25  | 30  | 35   |
| <i>Approximate Coverage</i> | 250 | 350 | 500 | 800 | 1000 |

**NOTE: THE CABLE IS FOR ELECTRICAL CONNECTIONS ONLY. UNDER NO CIRCUMSTANCES SHOULD THE SPEAKER BE SUSPENDED FROM THIS CABLE.**

### WIRING

Connect one wire of input to black wire (-) and the other to the white wire (+). Adjust volume by selecting appropriate tap setting from chart below.

**WARNING: SWITCH SETTING TWELVE (12) IS USED ON 8-OHM SPEAKER LINES. DO NOT USE TAP SETTING TWELVE (12) ON 25, 70 OR 100 VOLT LINES.**

| Tap Setting | 100V Watts   | 70V Watts    | 25V Watts    | Ohms |
|-------------|--------------|--------------|--------------|------|
| 1           | 1.9          | 1.0          | .12          | 5333 |
| 2           | 3.8          | 1.9          | .25          | 2667 |
| 3           | 7.5          | 3.8          | .5           | 1333 |
| 4           | 15           | 7.5          | 1.0          | 667  |
| 5           | 30           | 15           | 1.9          | 333  |
| 6           | Do not use   | 30           | 3.8          | 167  |
| 7           | Do not use   | Do not use   | 7.5          | 84   |
| 8           | Do not use   | Do not use   | 15           | 42   |
| 9           | Do not use   | Do not use   | 30           | 21   |
| 10          | Open         | Open         | Open         | ---  |
| 11          | Open         | Open         | Open         | ---  |
| 12          | Direct 8 ohm | Direct 8 ohm | Direct 8 ohm | 8    |