VALCOM

45 OHM TALKBACK INTERIOR SPEAKERS

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| **V-1060A** | **V-1061-W, V-1061-BK** | **V-1062A** | **V-1063A** |

INTRODUCTION

These instructions contain the specifications and guidelines necessary to install, operate and maintain Valcom 45 Ohm Talkback Interior Speaker Assemblies.

The 45 Ohm Talkback Interior Speaker Assemblies are for use with the Valcom "handsfree" talkback page control units and are for interior use only.

SPECIFICATIONS
Features

- 45 Ohm Impedance
- 8 Inch Speaker
- Easy Hook-up (2 connections using house cable or station wire)

Dimensions/Weight
8" Ceiling Speakers:
V-1060A talkback speaker
        13.00" Diameter x 2.50" D
        (33.02cm Diameter x 6.35cm D)
        2.5 lbs. (1.13 kg)
Wall Speakers:
V-1061-BK black vinyl w/black cloth grille
V-1061-W white vinyl w/white cloth grille
        9.60" H x 11.50" W x 4.20" D
        (24.38cm H x 29.21cm W x 10.67cm D)
        4 lbs. (1.81 kg)
V-1062A wood grain w/light brown open weave grille
V-1063A wood grain w/dark brown cloth grille
        10.60" H x 9.70" W x 5.20" D
        (26.92cm H x 24.64cm W x 13.21cm D)
4.0 lbs. (1.81 kg)

Environment
Temperature: 20 to +55oC
Humidity: 0 to 95% non precipitating

SYSTEM DESIGN
General
The 45 Ohm Talkback Speakers are designed to be used with the Valcom "handsfree" talkback control units. In combination with these units, they will provide both loudspeaker and talkback functions.
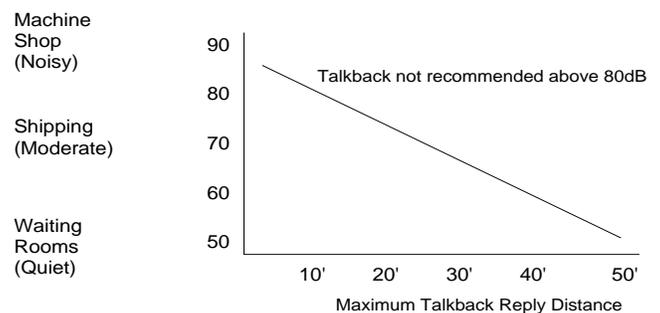
A standard Valcom talkback paging system is made up of three basic components:

1. A talkback page control unit
2. Speakers (45 Ohm)
3. A power supply

Coverage
The distance you can be away from a speaker and still have good talkback depends on the type of speaker and the ambient noise level. In a typical office environment, a wall speaker (V-1061-W, V-1061-BK, V-1062A, V-1063A,) will cover approximately 600 square feet when mounted eight feet from the floor. V-1060A ceiling speaker coverage is dependent on ceiling height; the greater the ceiling height, the larger the area covered**.**

TYPICAL REPLY DISTANCE CHART

Machine Shop (Noisy)

Shipping (Moderate)

Waiting Rooms (Quiet)

Talkback not recommended above 80dB

90
80
70
60
50

10'   20'   30'   40'   50'

Maximum Talkback Reply Distance

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IMPORTANT

The speaker is no better than your ears. If you cannot carry on a conversation at normal voice levels over the required talkback distance, then the talkback page equipment will not function satisfactorily.

Use common sense when mounting a talkback speaker. The speaker should be as close as possible to the area where talkback is desired.

<u>It should not be mounted close to or pointed at, noise producing equipment such as fans, air conditioners, machinery or compressors.</u>

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Limitations

- Two talkback plus 40 one-way amplified speakers maximum per zone when mixing talkback and one-way paging.
- 800 feet maximum cable length to speaker from page control.
  NOTE: Do not split pairs to speakers.
- Do not use talkback in noisy areas (80dB or greater).

Valcom recommends that the total number of speakers per talkback zone be limited to two talkback and forty one-way self-amplified speakers. The reasoning behind this recommendations is simple. Whenever a page is made into a talkback zone, the paging party will hear audio from all of the talkback speakers in that zone. If a zone contains more than two talkback speakers, the talkback audio from the "extra" speakers will impede the quality of the talkback audio from the desired speaker. Additionally, there are limits to the number of talkback speakers that a page control will actually drive. Ideally, if a page were made into a talkback zone, all of the speakers would simply act like "one-way" speakers except for the one that is closest to the paged person.

INSTALLATION
Connections

Two conductor twisted wire is required for the 45 Ohm talkback speakers. Standard 22 or 24 gauge station wire is acceptable. Shielded wire is not required or recommended.
Connections are as follows:

- Speaker out from page control to speaker tip
- Speaker common to speaker ring

Mounting

<u>CEILING SPEAKERS:</u> Cut an 8.5" diameter hole in ceiling tile. After connections have been made to the speaker, attach speaker to ceiling tile using the mounting hardware provided. NOTE: Where extra speaker support is needed, a V-9916 or V-9916M Valcom Bridge and Backbox should be used.

<u>WALL SPEAKERS:</u> After making the required connections, fasten a **suitable mounting screw (#10 sheet metal screw** or similar) to the wall at the desired location for mounting of the speaker. Hang the speaker on the screw using the keyhole on the speaker bracket.

TROUBLESHOOTING CHART	
SYMPTOMS	**ACTIONS**
• No sound in page mode	• Check tip and ring for audio at speaker.
	• Check tip and ring for audio at control unit.
• Low sound in page mode	• Check volume controls at page control.
• Poor listening in talkback mode	• Check talkback volume control at page control. Set control where audio is clearly audible.
	• Check presence and polarity of LED input signal.

TECHNICAL ASSISTANCE

When trouble is reported, verify there are no broken connections. Troubleshooting assistance is available from the factory. Call (540) 563-2000 and press 1 for Technical Support, or visit our website at http://www.valcom.com.

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

Valcom, Inc.
Repair and Return Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

WARRANTY

Warranty information may be found on our website at www.valcom.com/warranty.

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