



## Description and Wiring Diagrams

Model HR-1 & HR-2 Headset (300534 Series)

### General Description

The Telex HR-1 & HR-2 are medium-weight, noise reduction headsets with dynamic microphones. They both have a noise reduction rating of 21dB, and are suitable for use in moderately noisy environments. All models feature a unique, soft moleskin-covered headband design that distributes ear cushion pressure evenly over the entire ear with no pressure points, unlike conventional designs which apply more pressure on the bottom of the ear than on the top. An added advantage of this design is the headset folds into an extremely compact shape.

### Design Features

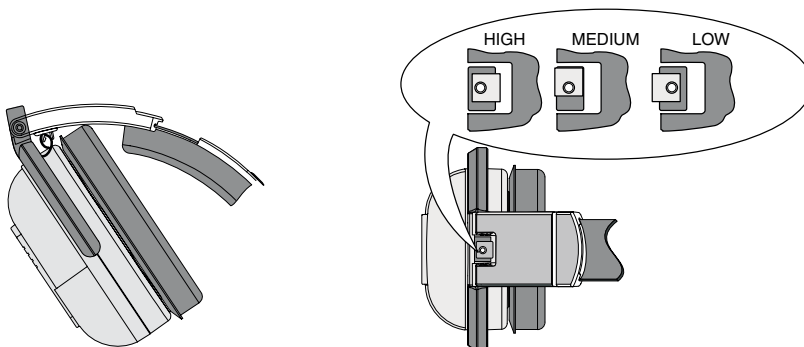
Comfortable foam-filled, mole-skin covered headband pad and ear cushions. The headband pad evenly distributes the headset weight, with no pressure points, for maximum wearer comfort. The ear cushions combine comfort and light weight with excellent acoustic seal. Gel-filled ear cushions are also available for this headset for users who prefer this type. All cushions are field-replaceable.

### Boom Microphone

The boom arm features a sealed ball-and-socket joint and flexible boom for precise microphone placement on any head size. The boom rotates overhead for microphone placement on either side of the head. The microphone cartridge is a dynamic element. The cartridge removes for replacement by loosening two screws and unsoldering the cartridge.

### Cordage

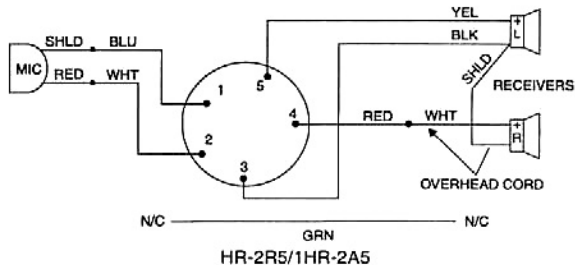
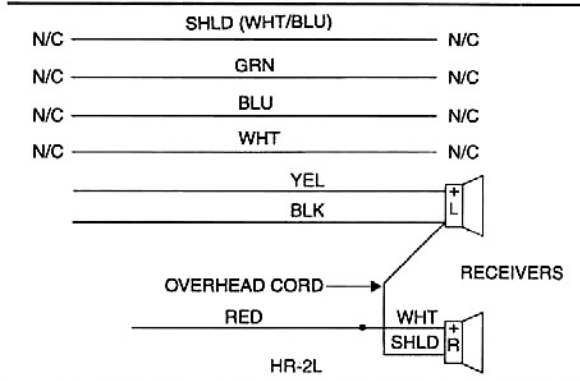
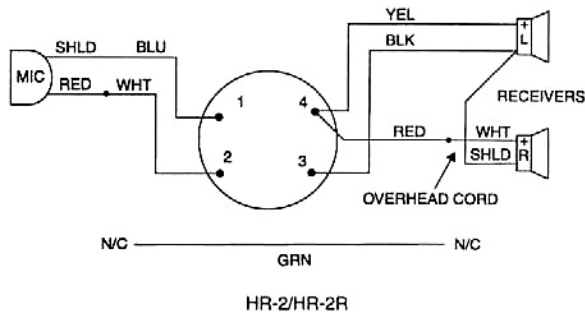
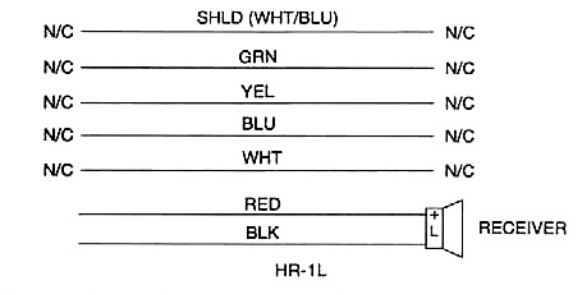
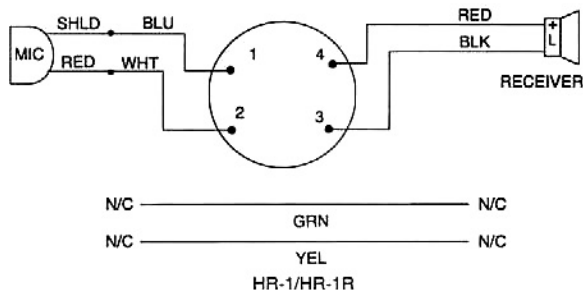
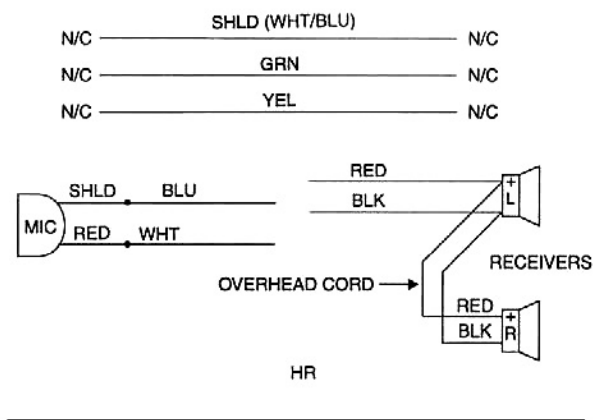
The microphone cordage is protected inside the boom arm. Shielded wire throughout the headset protects against RFI and EMI. Strain-reliefs on all cords provide maximum durability.



### Operation

#### Headband Pressure Adjustments

There are three pressure settings. Increasing the pressure will improve the seal between the earcup and the head for greater noise reduction. To change the pressure setting, remove the headset and fold the earcup inward as shown, then rotate the adjustment knob to the desired setting. Repeat for both earcups. Both sides of the headband should be set to the same pressure setting to keep the headband properly centered on the head.



## SPECIFICATIONS

### Receivers:

Type: Dynamic

Frequency Response: 50 Hz - 15 kHz

Sensitivity: 100 5 dB SPL (1 kHz, 1 mW input)

Impedance (at 1 kHz): 150 ohms (receivers wired in parallel)

### Microphone and Amplifier:

Element Type: Noise-canceling dynamic

Frequency Response: 100 Hz - 8 kHz

Sensitivity: -53 +2/-1 dB (ref: 1 V/bar at 1 kHz with 12 Vdc supply voltage and 100-ohm load)

Matching Impedance: 50-600 ohms

### Cordage:

HR-1 & HR-2: Straight cord, 5 ft. (1.5 m)

### Connectors:

4 pin XLR male or female, 5pin XLR male or female.

### Weight:

Gross Weight: Approx 16 oz. (454 g)

Effective Head Weight: Approx 14.2 oz. (403 g)

Color: Black

Ordering Information		
HR-2	Double sided w/boom, 4 pin female connector	Catalog No. 300534-000
HR-2R	Double sided w/boom, 4 pin male connector	Catalog No. 300534-001
HR-2R5	Double sided w/boom, 5 pin male connector	Catalog No. 300534-002
HR-2A5	Double sided w/boom, 5 pin female connector	Catalog No. 300534-010
HR- 2PT	Double sided w/boom, no connector	Catalog No. 300534-003
HR-2L	Double sided, listen only, no connector	Catalog No. 300534-004
HR-1L	Single sided, listen only, no connector	Catalog No. 300534-005
HR-1PT	Single sided, w/boom, no connector	Catalog No. 300534-006
HR-1	Single sided, w/boom, 4 pin female connector	Catalog No. 300534-007
HR-1R	Single sided, w/boom, 4 pin male connector	Catalog No. 300534-008
HR1-R5	Single sided, w/boom, 5 pin male connector	Catalog No. 300534-009

**TELEX**

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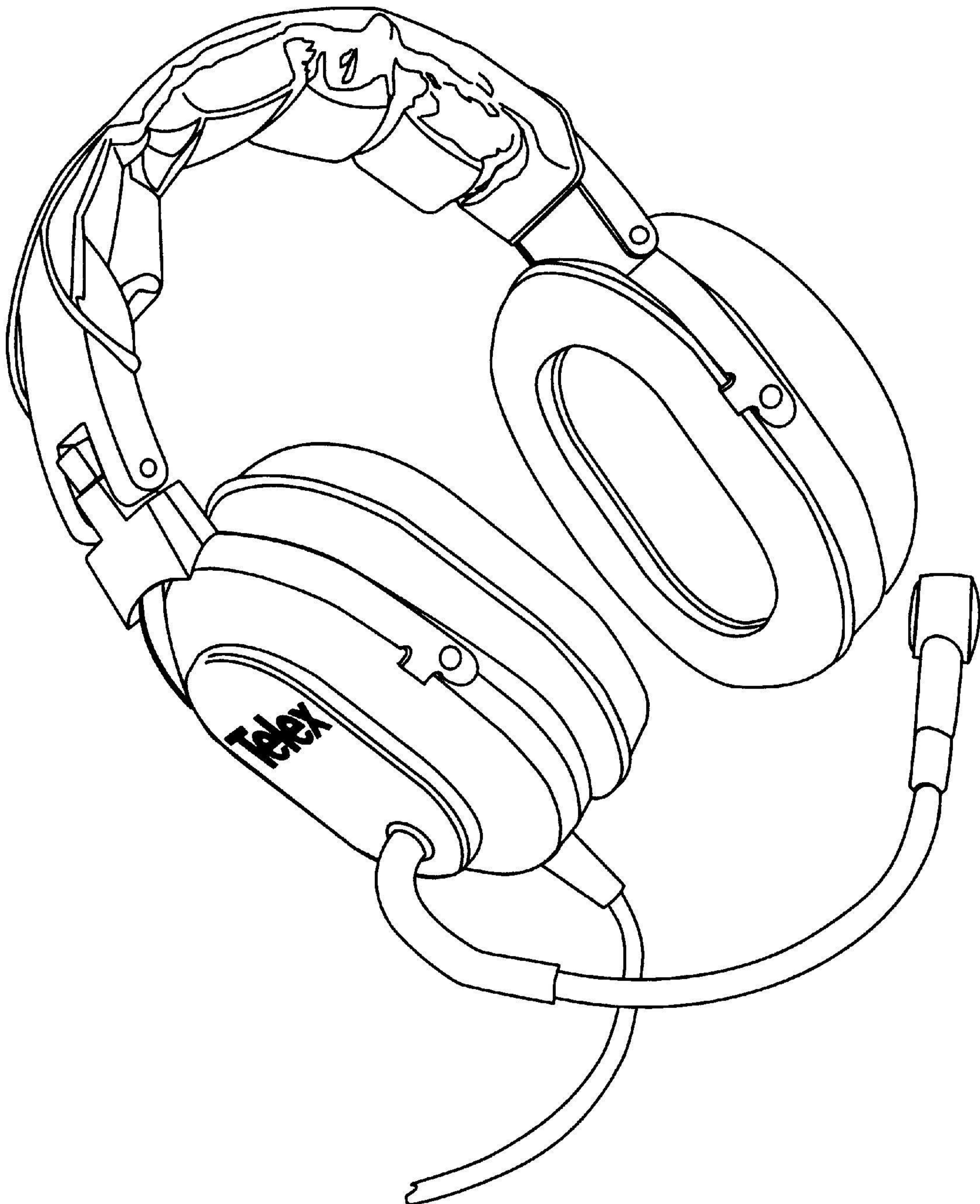
# HR-1



# HR-2









## Description and Wiring Diagrams

### Model HR-1 & HR-2 Headset (300534 Series)



#### General Description

The Telex HR-1 & HR-2 are medium-weight noise-reduction headsets with dynamic microphones. They both have a noise reduction rating of 21dB, and are suitable for use in moderately noisy environments. All models feature a unique headband design that distributes ear cushion pressure evenly over the entire ear with no pressure points, unlike conventional designs which apply more pressure on the bottom of the ear than on the top. An added advantage of this design is that the headset folds into an extremely compact shape for storage.

#### Design Features

Comfortable foam-filled headband pad and ear cushions. The headband pad evenly distributes the headset weight, with no pressure points, for maximum wearer comfort. The ear cushions combine comfort and light weight with excellent acoustic seal. An outer urethane layer ensures long life. Gel-filled ear cushions are also available for this headset for users who prefer this type. All cushions are field-replaceable.

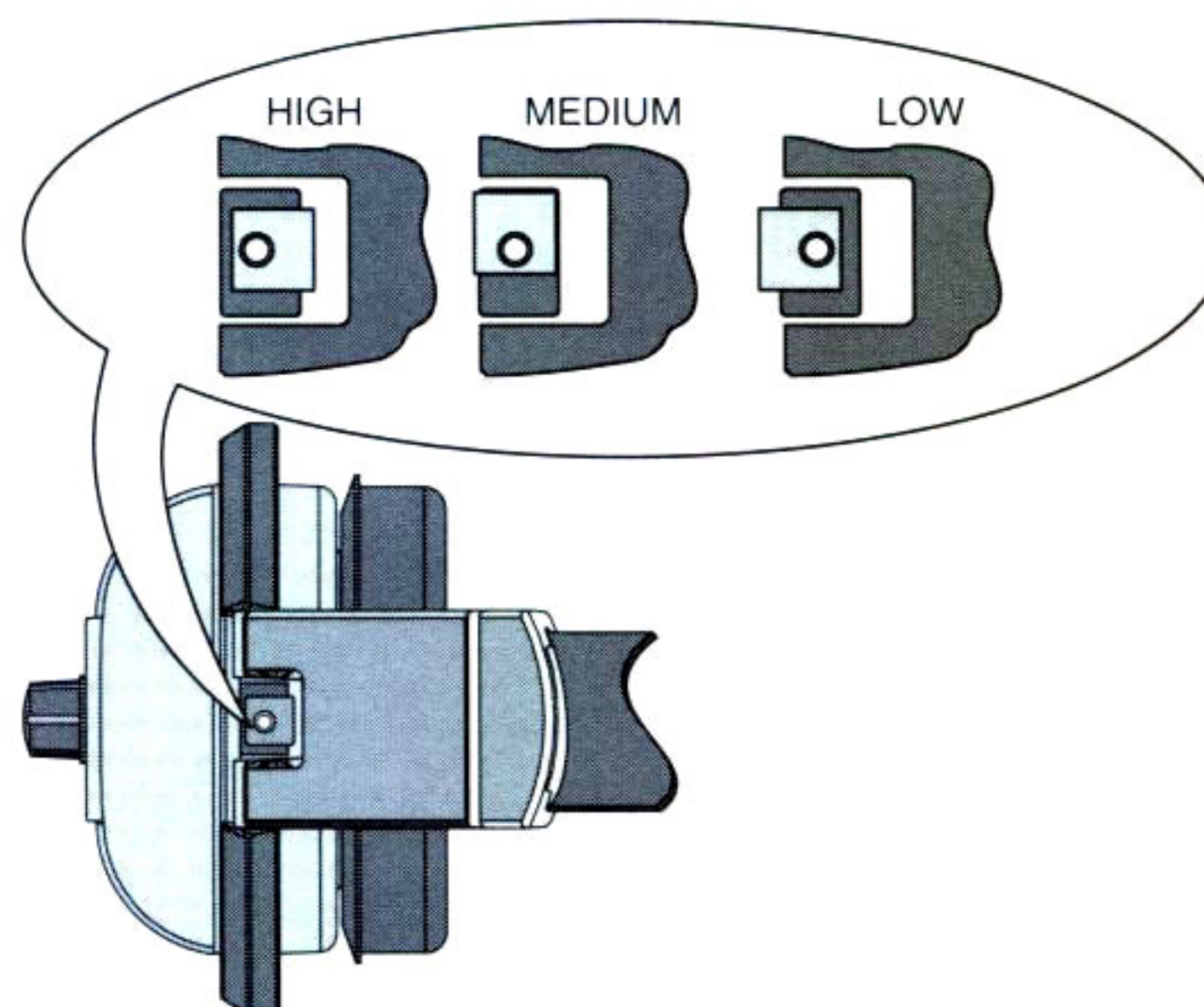
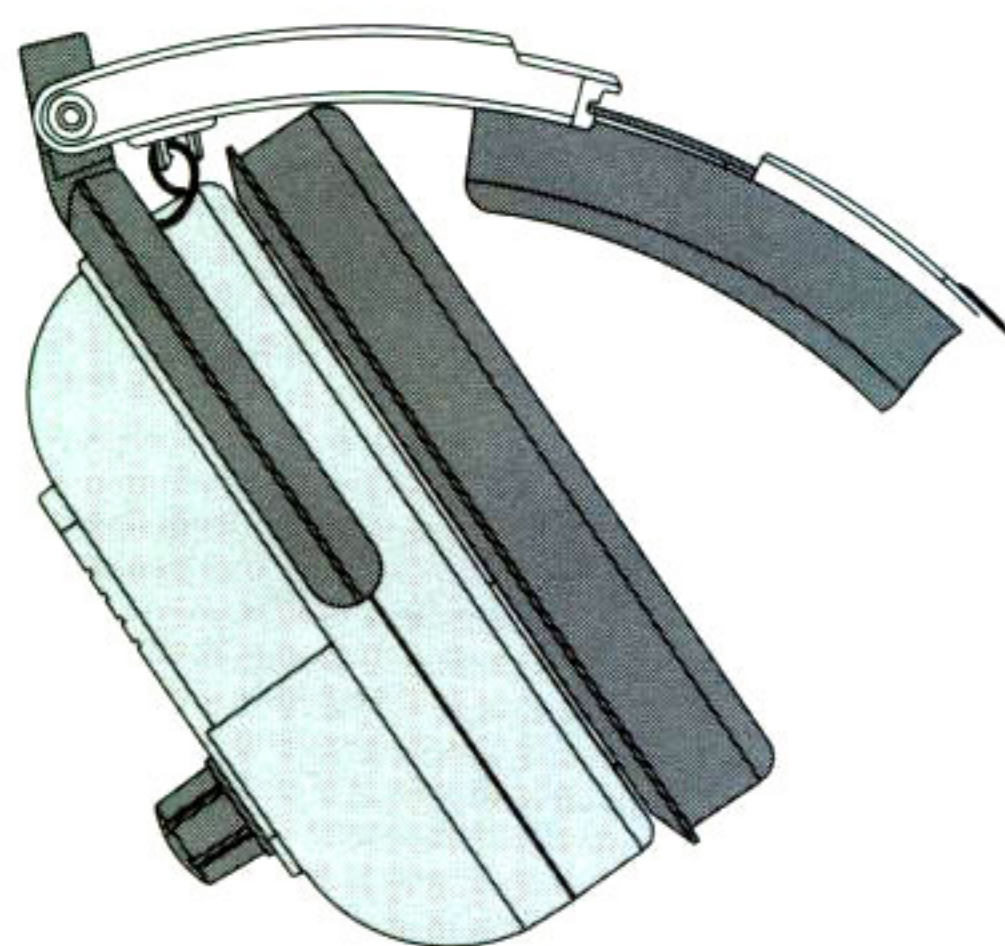
**Boom Microphone:** The boom arm features a sealed ball-and-socket joint and flexible boom for precise microphone placement on any head size. The boom rotates overhead for microphone placement on either side of the head. The microphone cartridge is a dynamic element. The cartridge removes for replacement by loosening two screws and unsoldering the cartridge.

**Cordage:** The microphone cordage is protected inside the boom arm. Shielded wire throughout the headset protects against RFI and EMI. Strain-reliefs on all cords provide maximum durability.

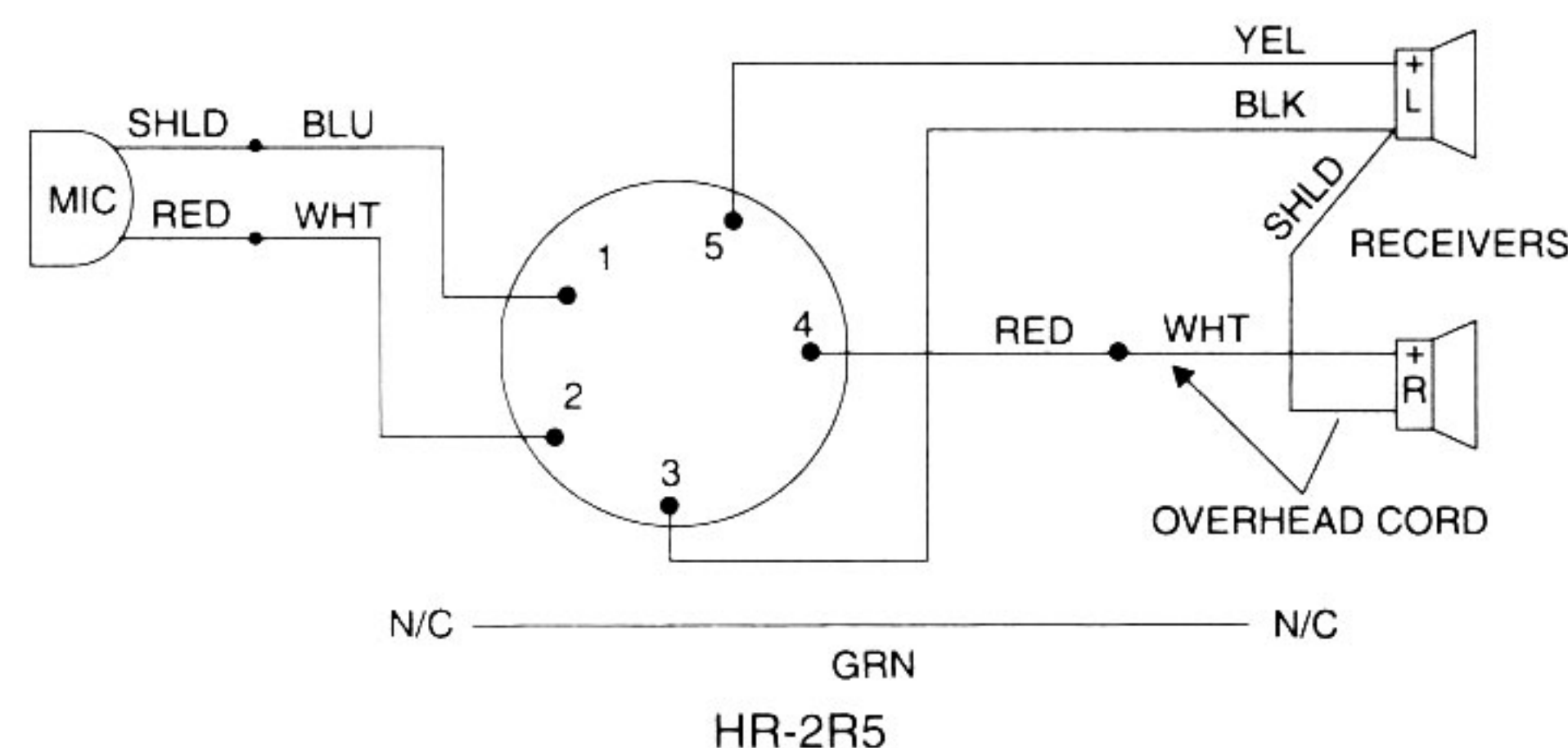
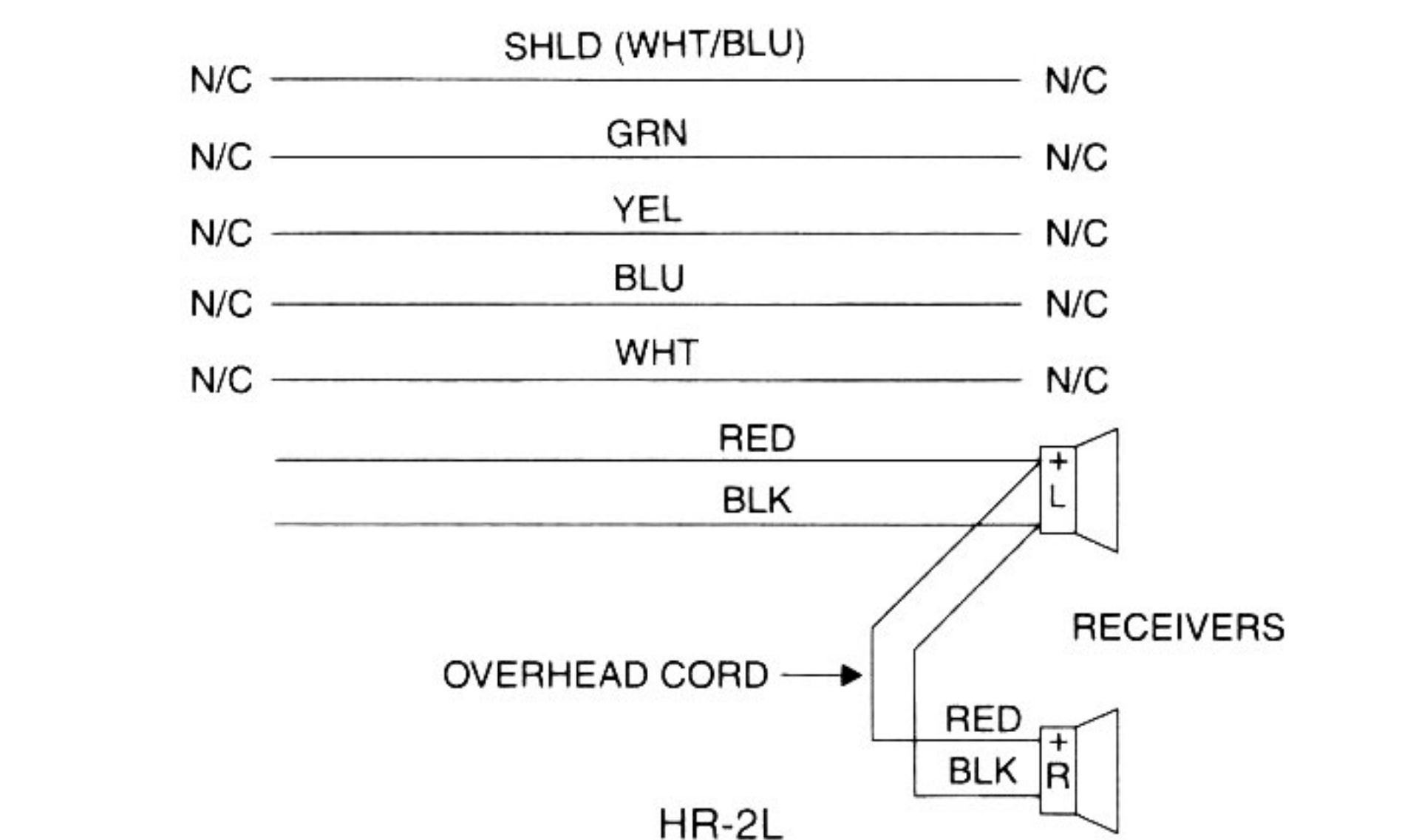
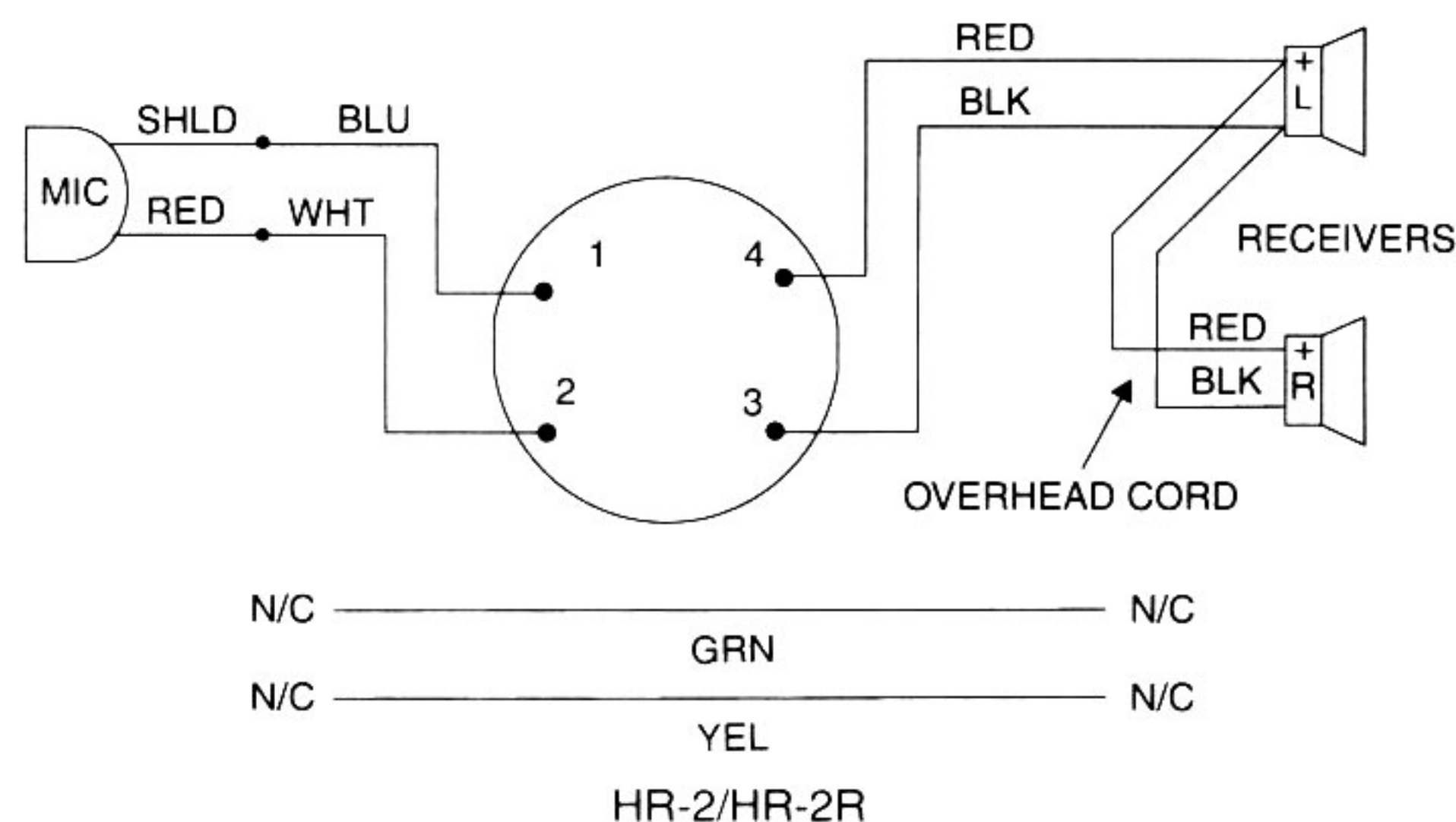
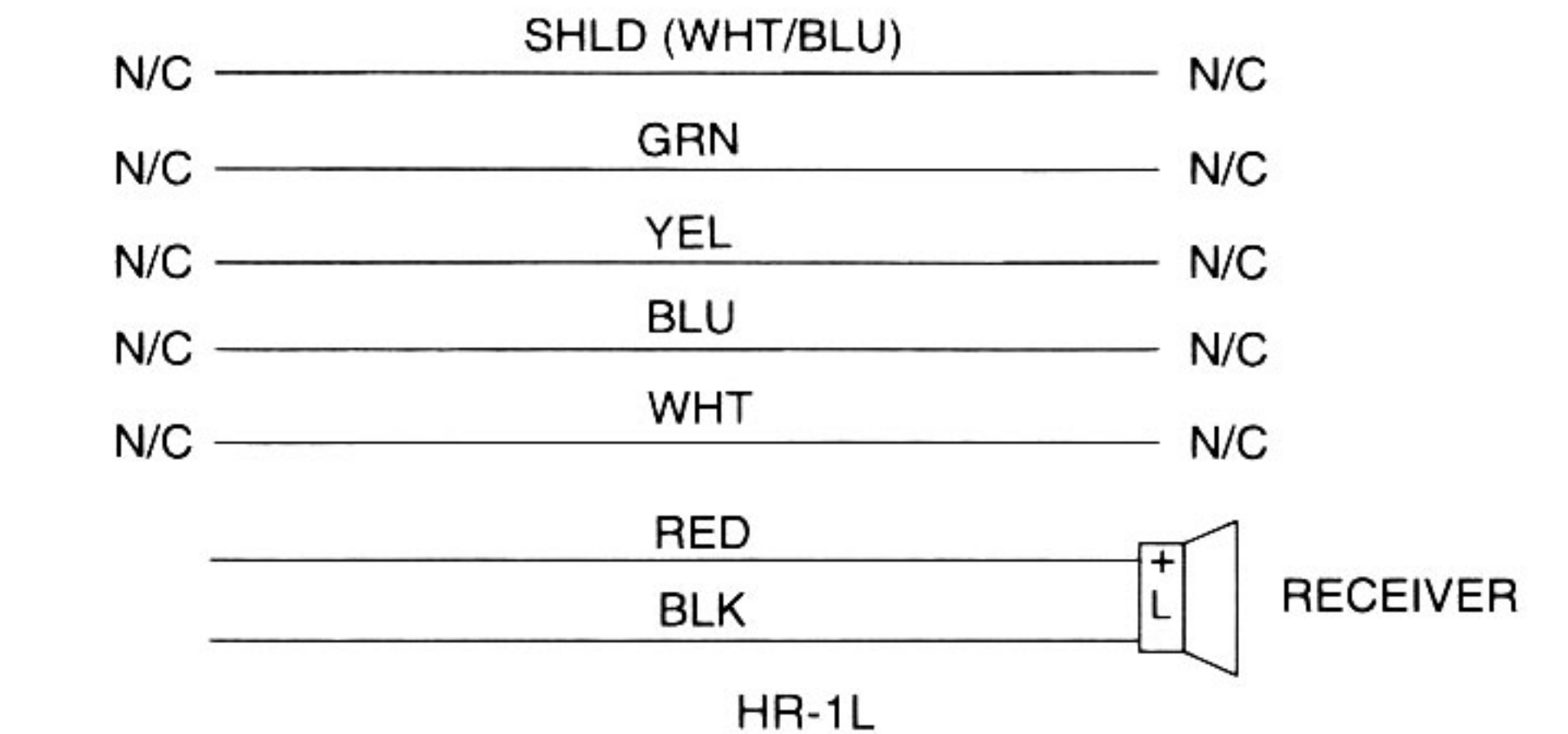
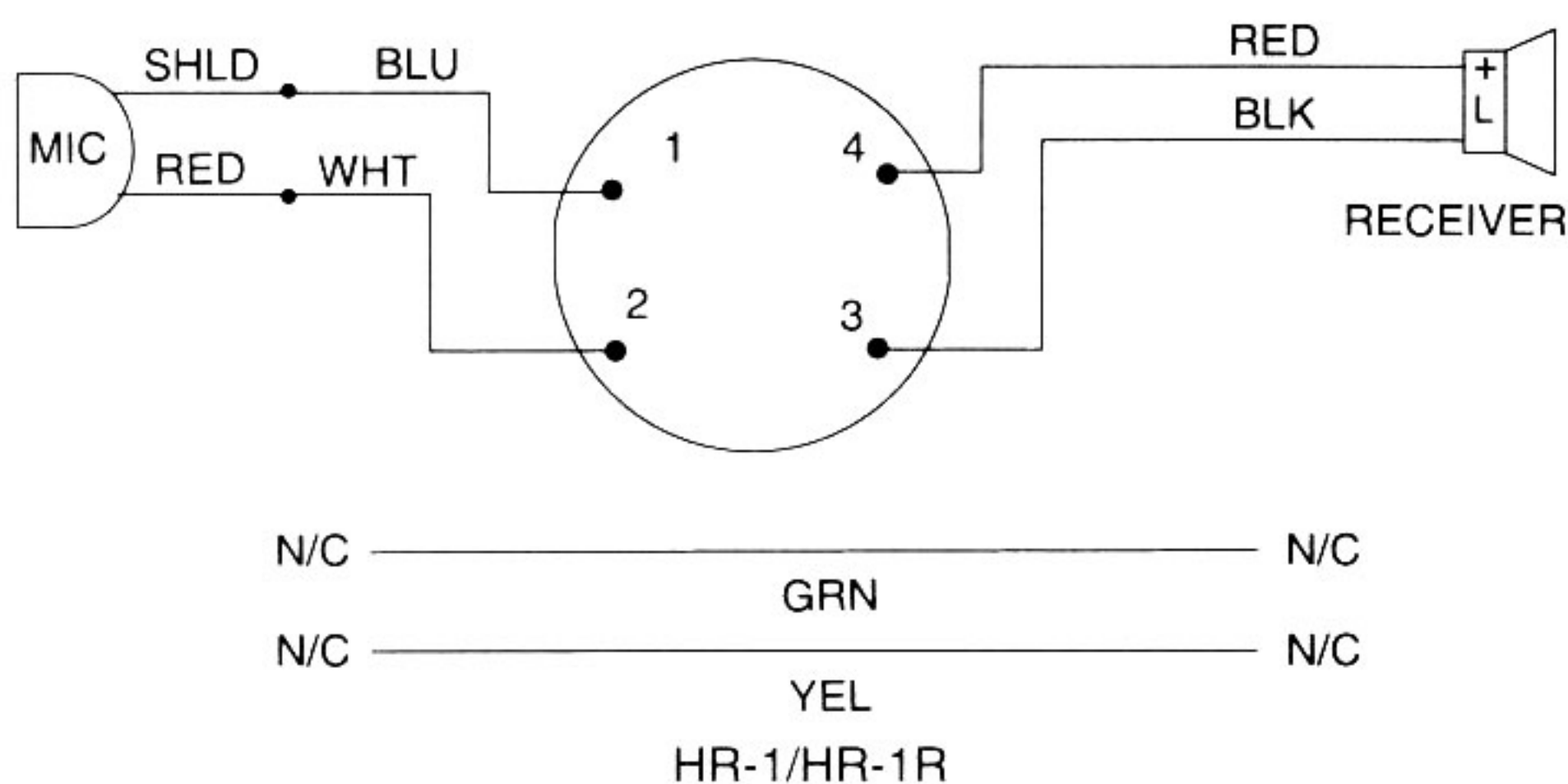
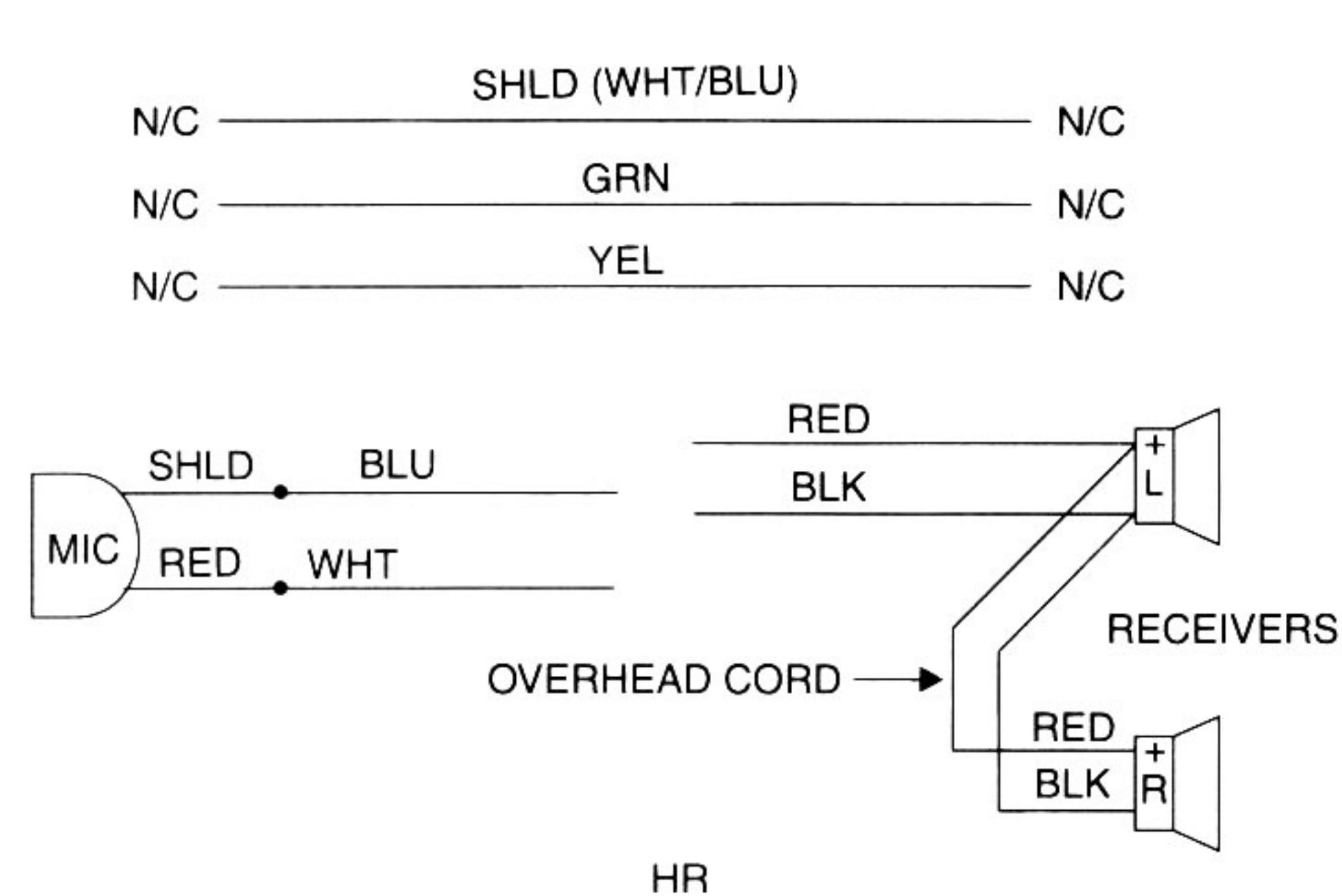
#### Operation

##### Headband Pressure Adjustments

There are three pressure settings. Increasing the pressure will improve the seal between the earcup and the head for greater noise reduction. To change the pressure setting, remove the headset and fold the earcup inward as shown, then rotate the adjustment knob to the desired setting. Repeat for both earcups. Both sides of the headband should be set to the same pressure setting to keep the headband properly centered on the head.







## SPECIFICATIONS

### Receivers:

Type: Dynamic

Frequency Response: 350 Hz-6.0 kHz 6 dB

Sensitivity: 100 5 dB SPL (1 kHz, 1 mW input)

Impedance (at 1 kHz): 150 ohms (receivers wired in parallel)

### Microphone and Amplifier:

Element Type: Noise-canceling dynamic

Frequency Response: 100 Hz-3.5 kHz

Sensitivity: -53 +2/-1 dB (ref:1 V/ bar at 1 kHz with 12 Vdc supply voltage and 100-ohm load)

Matching Impedance: 50-600 ohms

### Cordage:

HR-1 & HR-2: Straight cord, 5 ft. (1.5 m)

### Connectors:

4 pin XLR male or female, 5 pin XLR male

### Weight:

Gross Weight: Approx 16 oz. (454 g)

Effective Head Weight: Approx 14.2 oz. (403 g)

### Color: Black

## ORDERING INFORMATION

HR-2	Double sided w/boom, 4 pin female connector .....	Catalog no. 300534-000
HR-2R	Double sided w/boom, 4 pin male connector .....	Catalog no. 300534-001
HR-2R5	Double sided w/boom, 5 pin male connector .....	Catalog no. 300534-002
HR	Double sided w/boom, no connector .....	Catalog no. 300534-003
HR-2L	Double sided, listen only, no connector .....	Catalog no. 300534-004
HR-1L	Single sided, listen only, no connector .....	Catalog no. 300534-005
HR-	Single sided, w/boom, no connector .....	Catalog no. 300534-006
HR-1	Single sided, w/boom, 4 pin female connector .....	Catalog no. 300534-007
HR-1R	Single sided, w/boom, 4 pin male connector .....	Catalog no. 300534-008

# TELEX®



## HR-1

### Single-Sided Headset with Flexible Dynamic Boom Mic

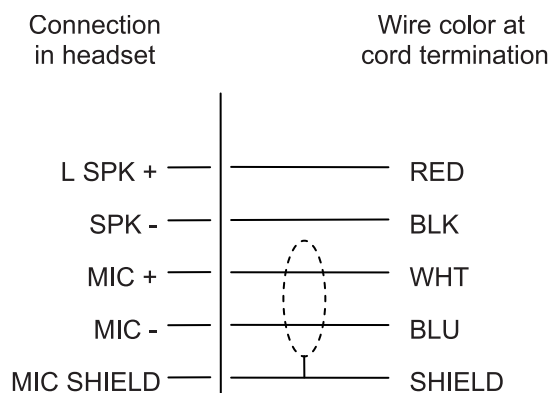
The HR-1 is a single-sided, medium-weight passive noise reduction headset with dynamic noise-canceling microphones. The headset has a noise reduction rating of 21 dB; suitable for use in a moderately noisy environment. The ergonomic moleskin-covered headband design distributes the ear cushion pressure evenly over the entire ear with no pressure points, ensuring hours of comfortable wear. An added advantage of this headset design is that it folds into compact form for ease of transport and storage. Available with 4-pin male or female connectors, 5-pin male, or pigtail termination.

## Features

### Boom Microphone

### Headband Pressure Adjustments

## Wiring Diagram





# HR-1 Specifications

## Connector Termination

HR-1: XLR 4-pin Female  
HR-1PT: Stripped Wire  
HR-1R: XLR 4-pin Male  
HR-1R5: XLR 5-pin Male

## Type

Single-Sided

## Mic Type

Dynamic Noise-Canceling

## Mic Sensitivity

-65dBV/Pa @1cm

## Mic Frequency Range

150Hz - 8kHz

## Mic Impedance

200Ω

## Speaker Sensitivity

95dB SPL @1kHz, 1mW

## Speaker Frequency Range

100Hz - 3kHz

## Speaker Impedance

300Ω

## Weight

11oz. (not including cord)

## Cord Length

5 ft.

## Color

Black

## Ordering Information

### HR-1

Single-Sided Headset with Flexible Dynamic Boom  
Mic & A4F Connector  
Catalog Number: 300534-007

### HR-1PT

Single-Sided Headset with Flexible Dynamic Boom  
Mic & Pigtail Termination  
Catalog Number: 300534-006

### HR-1R

Single-Sided Headset with Flexible Dynamic Boom  
Mic & A4M Connector  
Catalog Number: 300534-008

### HR-1R5

Single-Sided Headset with Flexible Dynamic Boom  
Mic & A5M Connector  
Catalog Number: 300534-009

This specifications information is preliminary and is subject to change without notification.

Brand names mentioned are the property of their respective companies.





## HR-2

### Dual-Sided Headset with Flexible Dynamic Boom Mic

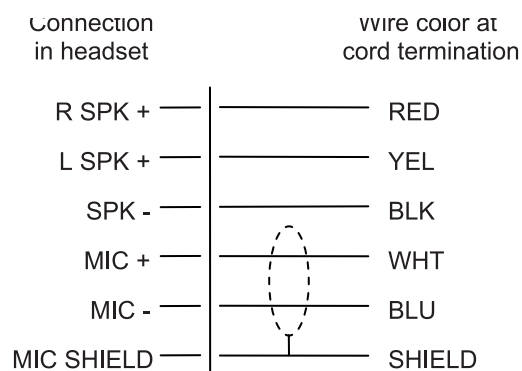
The HR-2 is a dual-sided, medium-weight passive noise reduction headset with a dynamic noise-canceling microphone. The headset has a noise reduction rating of 21 dB; suitable for use in a moderately noisy environment. The HR-2 features our unique, soft moleskin covered headband for all day comfort. Our ergonomic headset design distributes ear cushion pressure evenly over the entire ear with no pressure points, unlike conventional headsets, which apply more pressure on the bottom of the ear than the top. An added advantage of this headset design is that it folds into compact form for ease of transport and storage. Available with 4- or 5-pin XLR connectors (male or female), or pigtail termination.

## Features

### Boom Microphone

### Headband Pressure Adjustments

## Wiring Diagram





# HR-2 Specifications

## Connector Termination

HR-2: XLR 4-pin Female  
HR-2A5: XLR 5-pin Female  
HR-2PT: Stripped Wire  
HR-2R: XLR 4-pin Male  
HR-2R5: XLR 5-pin Male

## Type

HR-2: Dual Sided Monaural  
HR-2A5: Dual Sided Stereo  
HR-2PT: Dual Sided  
HR-2R: Dual Sided Monaural  
HR-2R5: Dual Sided Stereo

## Mic Type

Dynamic Noise-Canceling

## Mic Sensitivity

-65dBV/Pa @1cm

## Mic Frequency Range

150Hz - 8kHz

## Mic Impedance

200Ω

## Speaker Sensitivity

95dB SPL @1kHz, 1mW

## Speaker Frequency Range

100Hz - 3kHz

## Speaker Impedance

HR-2: 150Ω  
HR-2A5: 300Ω per side  
HR-2PT: 300Ω per side  
HR-2R: 150Ω  
HR-2R5: 300Ω per side

## Weight

15oz. (not including cord)

## Cord Length

5 ft.

## Color

Black

## Ordering Information

### HR-2

Dual-Sided Headset with Flexible Dynamic Boom Mic & A4F Connector

Catalog Number: 300534-000

### HR-2A5

Dual-Sided Headset with Flexible Dynamic Boom Mic & A5F Connector

Catalog Number: 300534-010

### HR-2PT

Dual-Sided Headset with Flexible Dynamic Boom Mic & Pigtail Termination

Catalog Number: 300534-003

### HR-2R

Dual-Sided Headset with Flexible Dynamic Boom Mic & A4M Connector

Catalog Number: 300534-001

### HR-2R5

Dual-Sided Headset with Flexible Dynamic Boom Mic & A5M Connector

Catalog Number: 300534-002

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