

Rugged Radios H41

Rugged Radios H41 Behind The Head Headset

Instruction Manual

INTRODUCTION

The Rugged Radios H41 Behind The Head Headset is designed for clear communication and hearing protection in demanding environments. Featuring a dynamic noise-canceling microphone, 24dB Noise Reduction Rating (NRR), and versatile connectivity options, this headset ensures reliable performance for racing, industrial, and other high-noise applications. This manual provides essential information for the proper setup, operation, and maintenance of your H41 headset.

FEATURES

The H41 headset incorporates several key features for enhanced functionality and user comfort:

- **Adjustable Head Strap:** Allows for a customized and secure fit, especially when worn with helmets or other headgear.
- **Push-to-Talk (PTT) Button:** Integrated button for convenient and immediate radio transmission.
- **Volume Control Knob:** Easily adjust audio levels directly on the headset.
- **5-Pin Universal Radio Port:** Provides broad compatibility with various 2-way radios, including Rugged Radios, Baofeng, Motorola, Kenwood, HYT, and TYT.
- **Soft Foam Ear Seals:** Designed for comfort during extended wear and effective noise isolation.
- **Carbon Fiber Style Finish:** Durable and aesthetically pleasing design.
- **3.5mm Audio Input Jack:** Connect external audio devices such as cell phones, race receivers, or scanners.
- **Foam Mic Muff:** Reduces wind and ambient noise for clearer microphone transmission.
- **50mm Audio Speakers:** Deliver clear and crisp audio.
- **Adjustable Microphone Boom:** Allows precise positioning of the microphone for optimal voice pickup.
- **Dynamic Noise-Canceling Microphone:** Ensures clear voice transmission by filtering out background noise.

- **24dB Noise Reduction Rating (NRR):** Provides significant hearing protection in loud environments.



Figure 1: Key features including adjustable head strap, PTT button, volume knob, and 5-pin radio port.



Figure 2: Detailed view of soft foam ear seals, carbon fiber finish, 3.5mm input, and foam mic muff.

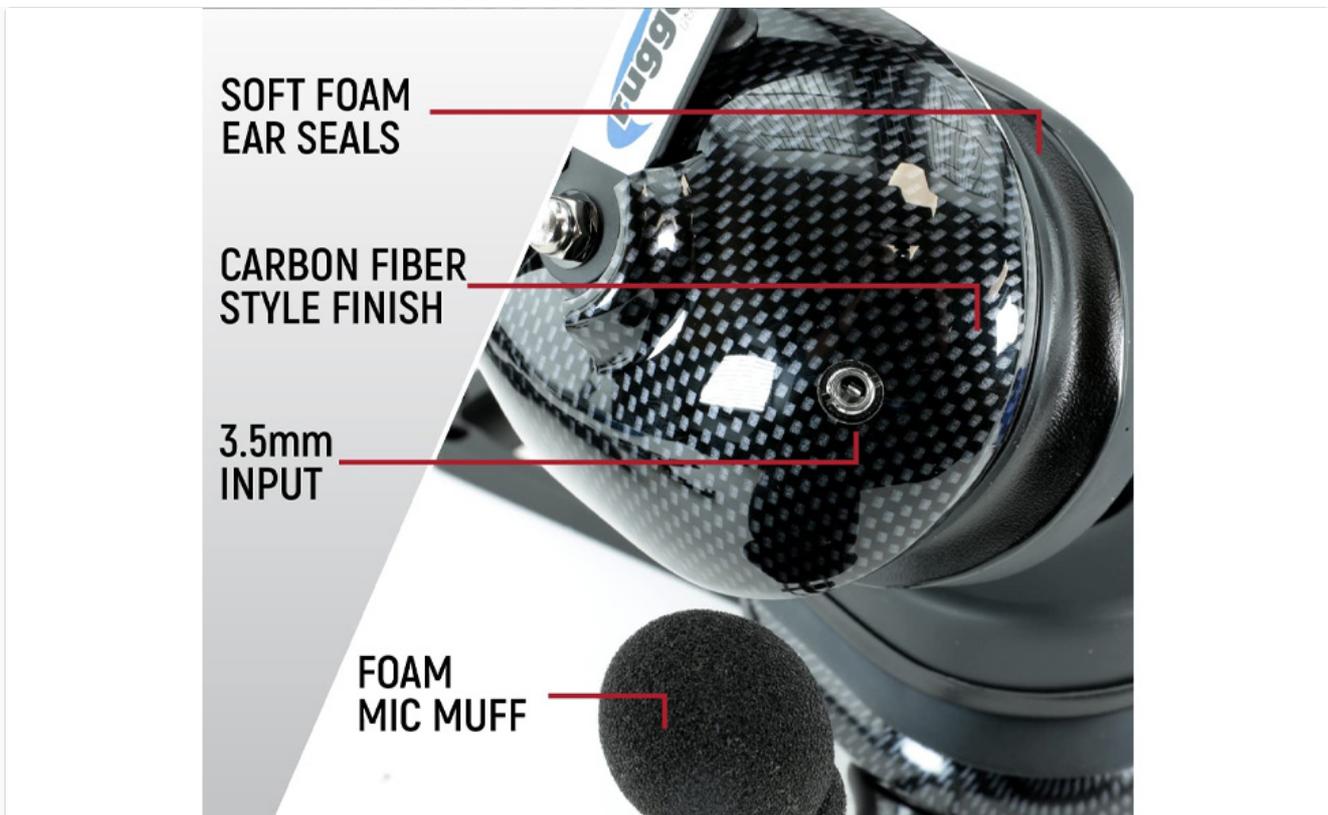


Figure 3: Illustration of 50mm audio speakers and the adjustable microphone boom.

PACKAGE CONTENTS

Upon unpacking, verify that the following item is included:

- Rugged Radios H41 Behind The Head Headset

Note: Connection cables for radios are sold separately and are required for radio communication.

SETUP

1. Adjusting the Headset

1. **Head Strap:** Adjust the hook-and-loop fastener on the adjustable head strap to achieve a snug yet comfortable fit around the back of your head. The headset should rest securely without excessive pressure.
2. **Ear Cups:** Ensure the ear cups fully enclose your ears to maximize noise reduction and audio clarity.
3. **Microphone Boom:** Position the adjustable microphone boom so that the microphone is approximately 0.5 to 1 inch (1-2.5 cm) from your mouth. This optimal distance ensures clear voice pickup and effective noise cancellation.

2. Connecting to a Radio

The H41 headset features a 5-pin universal radio port for connection to compatible 2-way radios.

1. Obtain the correct 5-pin jumper cable for your specific radio model (e.g., Rugged Radios, Baofeng, Motorola, Kenwood, HYT, TYT).
2. Align the 5-pin connector of the jumper cable with the 5-pin port on the headset.
3. Gently push and twist the connector until it is securely seated. Do not force the connection.
4. Connect the other end of the jumper cable to your 2-way radio's accessory port according to your radio's

instructions.

3. Connecting Auxiliary Audio

The 3.5mm audio input jack allows for connection of external audio sources.

1. Insert a standard 3.5mm audio cable into the 3.5mm input jack on the headset.
2. Connect the other end of the audio cable to your desired audio device (e.g., cell phone, MP3 player, race receiver).
3. Adjust the volume on your external audio device as needed.

OPERATING INSTRUCTIONS

1. Adjusting Volume

Use the volume control knob located on the headset to adjust the listening volume of both radio communication and auxiliary audio. Turn the knob clockwise to increase volume and counter-clockwise to decrease it.

2. Using the Push-to-Talk (PTT) Button

The integrated PTT button controls your radio's transmission function.

- To transmit, press and hold the PTT button. Speak clearly into the microphone.
- Release the PTT button to stop transmitting and return to receive mode.

3. Simultaneous Audio

The headset is designed to allow simultaneous listening to both radio communication and auxiliary audio. The volume knob on the headset controls the overall output, while individual device volumes can be adjusted on the connected radio and auxiliary device.

MAINTENANCE

Cleaning

- **Ear Seals:** Wipe the soft foam ear seals with a damp cloth and mild soap. Ensure they are completely dry before use. Avoid harsh chemicals.
- **Headset Body:** Clean the carbon fiber style finish and other surfaces with a soft, dry, or slightly damp cloth.
- **Microphone:** The foam mic muff can be gently removed and cleaned with mild soap and water, then air-dried. Replace if damaged.

Storage

Store the headset in a clean, dry place away from extreme temperatures and direct sunlight. Avoid placing heavy objects on the headset to prevent damage to the ear cups or microphone boom.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio from headset	Volume too low; Loose cable connection; Radio/device issue	Increase headset volume; Check all cable connections; Verify radio/device is functioning correctly.

Problem	Possible Cause	Solution
Microphone not transmitting	PTT not pressed; Loose cable connection; Microphone positioned incorrectly; Radio settings	Ensure PTT is pressed; Check 5-pin cable connection; Adjust microphone closer to mouth; Consult radio manual for transmit settings.
Poor audio quality (static, low volume)	Interference; Damaged cable; Incorrect impedance; Microphone issue	Move away from sources of interference; Try a different cable; Ensure radio is compatible with 150 Ohm impedance; Check microphone for damage.
Headset uncomfortable	Improper adjustment; Worn ear seals	Re-adjust head strap and ear cups for a better fit; Consider replacing ear seals if they are worn or flattened.

SPECIFICATIONS

Feature	Detail
Model Name	H41 Behind The Head Headset
Noise Control	Sound Isolation, Noise Cancellation (24dB NRR)
Sensitivity	150 Ohm
Headphones Jack	3.5 mm Jack
Connectivity Technology	5-Pin Universal Radio Port, 3.5mm Input Jack
Included Components	Behind The Head Headset
Material	Carbon Fiber (style), Nylon (carrying case)
Control Type	Volume Control
Cable Feature	Detachable (jumper cable sold separately)
Item Weight	15.5 ounces (0.44 Kilograms)
Water Resistance Level	Water Repellent
Product Dimensions	8 x 6 x 4 inches
Compatible Devices	Rugged Radios, Baofeng, Motorola, Kenwood, HYT, TYT, David Clark, Bose, Sennheiser, Peltor, Softcomm, Flightcomm, and most other brands (with appropriate cable)

WARRANTY INFORMATION

The Rugged Radios H41 Behind The Head Headset is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, duration, and claim procedures, please refer to the official Rugged Radios website or contact their customer support directly. Keep your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical support, or to purchase accessories and replacement parts, please visit the official Rugged Radios website or contact their customer service department. You can find contact information and frequently asked questions on their support pages.

Website: www.ruggedradios.com



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