

Rugged Radios RRP5050

Rugged Radios RRP5050 2-Place Sport & Race Intercom User Manual

Model: RRP5050

1. INTRODUCTION

The Rugged Radios RRP5050 is a 2-place intercom system designed for clear communication in high-noise environments, such as off-road vehicles, UTVs, and race trucks. It features dual volume controls for independent adjustment by driver and co-driver, and a 3.5mm music input for audio entertainment. This manual provides instructions for proper setup, operation, and maintenance of your RRP5050 intercom.

2. FEATURES

- **2-Place Communication:** Enables clear voice communication between two occupants.
- **Dual Volume Control:** Independent volume adjustment for both driver and co-driver.
- **3.5mm Music Input:** Connect an MP3 player or smartphone for audio playback.
- **Radio Connectivity:** Integrated pigtail for connecting to a 2-way handheld or mobile radio.
- **High-Power Amplifiers:** Two 3.5-watt amplifiers ensure robust audio output.
- **Durable Construction:** Engineered with off-road use in mind, featuring an aluminum housing.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- RRP5050 2-Place Intercom Unit
- Microphone (included as per product specifications)
- Side channel L brackets for mounting

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Refer to the diagrams below for port identification.

4.1 Mounting the Intercom

The RRP5050 intercom can be mounted using the supplied side channel L brackets. Optional dash and UTV-specific mounting brackets are available separately for a custom fit.

4.2 Connecting Headsets

Connect the driver's headset to the 'Driver' port and the co-driver's headset to the 'Co-driver' port on the rear of the intercom. Ensure connections are secure.

4.3 Connecting a 2-Way Radio

Utilize the integrated radio jumper pigtail to connect your 2-way handheld or mobile radio. This allows for communication with other vehicles or base stations.

4.4 Power Connection

Connect the intercom to a 12V power source in your vehicle. Ensure proper polarity (red to positive, black to negative) to prevent damage.



Figure 1: Front panel of the RRP5050 Intercom, showing controls and music input.



Figure 2: Rear panel of the RRP5050 Intercom, showing headset, radio, and power connections.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

The intercom powers on automatically when connected to a 12V power source. The 'Pwr/Xmt' indicator light on the

front panel will illuminate when the unit is active.

5.2 Adjusting Volume

Use the 'Driver' and 'Co-Driver' knobs on the front panel to adjust the individual listening volume for each occupant. Rotate clockwise to increase volume and counter-clockwise to decrease.

5.3 Music Input

Connect an audio device (e.g., MP3 player, smartphone) to the 3.5mm 'Music' input jack on the front panel. Audio from the connected device will be played through the headsets. The music volume is typically controlled by the connected device.

5.4 Radio Communication

When a 2-way radio is connected, the intercom facilitates communication through the radio. The 'Pwr/Xmt' light will indicate when the radio is transmitting. Consult your radio's manual for specific Push-To-Talk (PTT) button operation.

6. MAINTENANCE

The RRP5050 intercom is designed for durability with minimal maintenance required.

- **Cleaning:** Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all cable connections for tightness and signs of wear. Ensure headset and radio cables are not pinched or damaged.
- **Storage:** If storing the intercom for an extended period, disconnect it from power and store in a dry, protected environment.

7. TROUBLESHOOTING

If you encounter issues with your RRP5050 intercom, refer to the following common problems and solutions:

- **No Power/No Indicator Light:**
 - Check the 12V power connection. Ensure it is securely connected and receiving power.
 - Verify vehicle's power source (e.g., battery, fuse).
- **No Audio in Headsets:**
 - Ensure headsets are properly plugged into the correct 'Driver' and 'Co-driver' ports.
 - Adjust the individual volume knobs for both driver and co-driver.
 - Check headset cables for damage.
- **Distorted Audio:**
 - Reduce the volume settings on the intercom and/or the connected audio device.
 - Check for loose connections or damaged cables.
 - Ensure microphones are positioned correctly and not obstructed.
- **Music Input Not Working:**
 - Verify the 3.5mm cable is fully inserted into both the intercom and the audio device.
 - Check the volume level on the connected audio device.

- Test with a different audio device or cable.

- **Radio Not Transmitting/Receiving:**

- Ensure the 2-way radio is properly connected to the intercom's radio pigtail.
- Verify the radio is powered on and functioning independently.
- Check PTT button functionality.

If these steps do not resolve the issue, please contact Rugged Radios customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Model Number	RRP5050
Item Weight	1.41 pounds
Package Dimensions	8.62 x 5.24 x 3.54 inches
Material	Aluminum
Hardware Interface	3.5mm Audio
Connectivity Technology	Auxiliary
Connector Type	3.5 mm Jack
Special Feature	Volume Control
Compatible Devices	Radio
Power Source	Corded Electric (12V)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Rugged Radios website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Rugged Radios Contact Information: (Please refer to the manufacturer's official website for the most current contact details.)