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SSV Works 250-HRZ56-RCA4

SSV Works Polaris RZR Pro Series Ride Command RCA Output Harness User Manual

Model: 250-HRZ56-RCA4

Introduction

The SSV Works Ride Command Front & Rear Speaker RCA Output Harness is designed to integrate aftermarket amplifiers with the factory Ride Command infotainment system in Polaris RZR Pro Series models from 2020 to 2026. This harness provides clean RCA outputs for amplifiers, subwoofers, and full aftermarket audio setups, preserving factory controls and functionality.

Product Features

- **Plug-and-Play Integration:** Seamlessly connects the factory Ride Command source to aftermarket amplifiers via front & rear speaker RCA outputs.
- **Retains Factory Controls:** Preserves factory steering wheel controls and infotainment functionality.
- **Vehicle-Specific Design:** Engineered for Polaris RZR Pro Series (R, S, XP) 2020-2026 models.
- **Durable Construction:** Features a fully sealed 23-pin connector with braided loom for off-road durability.
- **Clean Audio Signal:** Delivers a high-quality low-level signal from the Ride Command system for amplifier integration.
- **No Wiring Modification:** Allows for audio upgrades without cutting, splicing, or modifying factory wiring.

Package Contents

Verify that all items are present in the package:

- Main Ride-Command Harness
- Two RCA Harnesses for the Main harness

Compatibility

This harness is specifically designed for:

- Polaris RZR Pro Series (R, S, XP)
- Model Years: 2020-2026

Setup and Installation

Follow these steps for proper installation of your SSV Works RCA Output Harness:

1. **Locate Ride Command Amplifier Output:** Identify the factory Ride Command amplifier output connector in your Polaris RZR Pro Series vehicle.
2. **Connect Main Harness:** Plug the 23-pin watertight connector of the SSV Works Main Ride-Command Harness directly into the factory Ride Command amp output. This connection is plug-and-play and requires no cutting or splicing of factory wires.
3. **Connect RCA Harnesses:** Attach the two provided RCA harnesses to the corresponding connectors on the Main Ride-Command Harness. These will provide the front and rear speaker RCA outputs.
4. **Connect Remote Turn-On Wire:** The harness includes a remote turn-on wire (typically blue) for your aftermarket amplifier. Connect this wire to the remote turn-on input of your amplifier.
5. **Route RCA Cables:** Route your RCA cables from the harness to your chosen aftermarket amplifier(s). Ensure cables are routed securely and away from moving parts or heat sources.
6. **Install Amplifier:** Install your aftermarket amplifier(s) according to the amplifier manufacturer's instructions, connecting the RCA inputs and remote turn-on wire from the SSV Works harness.
7. **Secure Wiring:** Secure all wiring with zip ties or appropriate fasteners to prevent damage from vibration or environmental exposure.

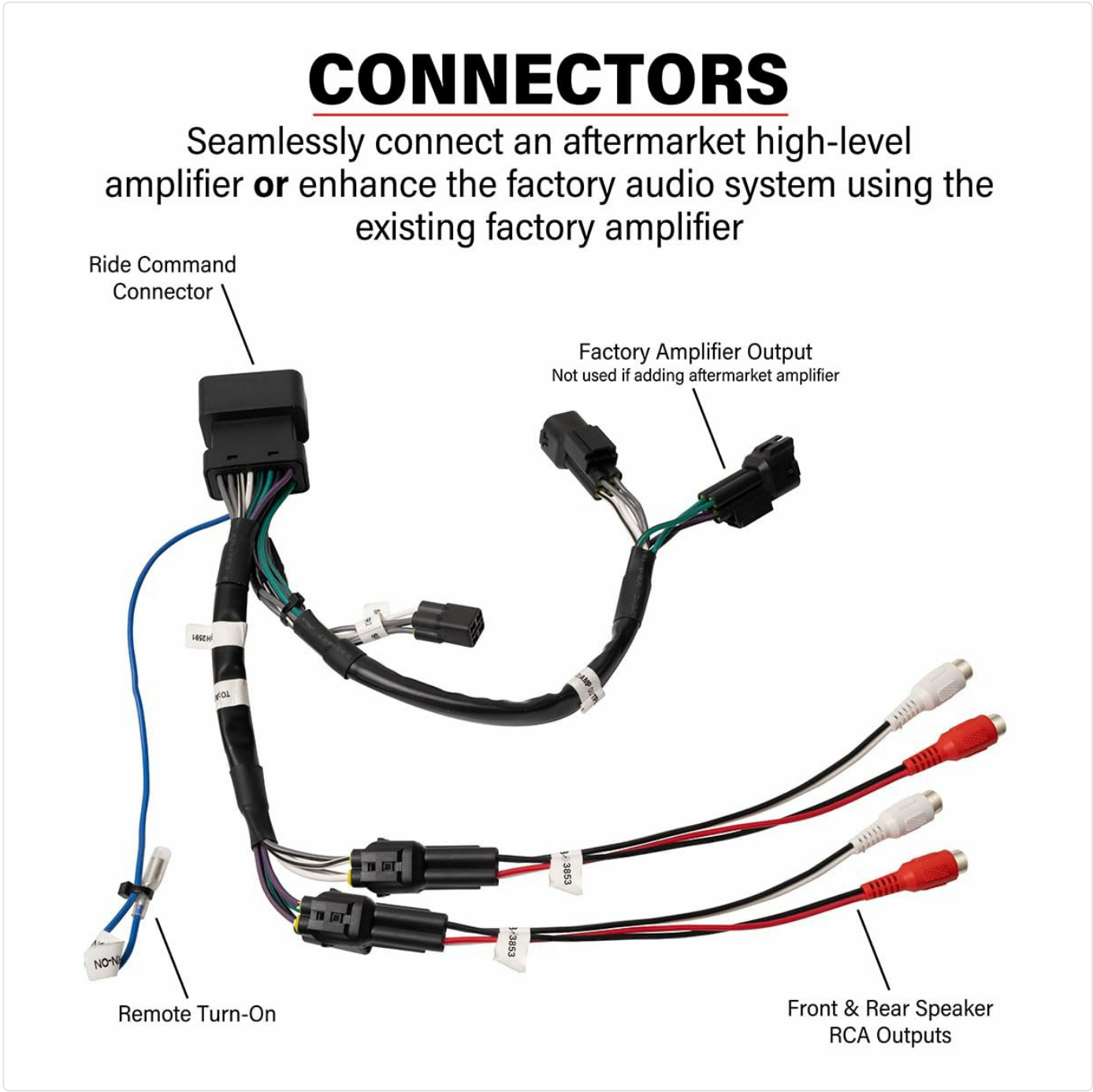


Figure 1: SSV Works RCA Output Harness Connectors. This diagram illustrates the various connection points of the harness, including the input from the Ride Command, the remote turn-on lead, and the RCA outputs for front and rear speakers.

This harness is designed to allow for the addition of an amplifier without modifying the factory wiring, preserving the integrity of your vehicle's electrical system.

Operating Instructions

Once installed, the SSV Works RCA Output Harness operates seamlessly with your Polaris RZR Pro Series Ride Command system. The harness provides a clean audio signal to your aftermarket amplifier(s) while retaining all original factory functionalities.

- **Factory Interface:** The factory Ride Command interface, including all screen functions, remains fully operational.
- **Steering Wheel Controls:** All steering wheel audio controls (volume, track skip, mode selection) will continue to function as intended, controlling the audio output through your aftermarket amplifier setup.



Figure 2: Retained Steering Wheel Controls. This image shows the Polaris RZR steering wheel, highlighting that the original audio controls remain functional after the harness installation, allowing users to manage their audio system conveniently.

Maintenance

The SSV Works RCA Output Harness is designed for durability in off-road environments. Minimal maintenance is required:

- **Regular Inspection:** Periodically inspect all connections to ensure they remain secure and free from corrosion, especially after exposure to water, mud, or dust.
- **Cleaning:** If necessary, gently clean the harness and connectors with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Cable Management:** Ensure all cables remain properly routed and secured to prevent chafing or damage from vehicle movement.

Troubleshooting

Problem	Possible Cause	Solution
No audio output from aftermarket amplifier.	Loose RCA connections. Remote turn-on wire not connected or faulty. Amplifier not powered on or in protect mode. Incorrect audio source selected on Ride Command.	Check all RCA connections at both the harness and amplifier. Verify the remote turn-on wire is securely connected to the amplifier's remote input and receiving power. Ensure the amplifier has proper power and ground connections and is not in protect mode. Consult amplifier manual. Confirm the correct audio source (e.g., Bluetooth, USB, Radio) is selected on the Ride Command unit.
Poor audio quality (distortion, static).	Improper gain settings on amplifier. Ground loop interference. Damaged RCA cables.	Adjust amplifier gain settings according to the amplifier manufacturer's recommendations. Ensure all audio components are properly grounded. Inspect RCA cables for damage; replace if necessary.
Factory steering wheel controls not working.	Main harness not fully seated. Vehicle's Ride Command system issue.	Verify the main 23-pin connector is fully and securely plugged into the Ride Command amplifier output. If the issue persists, consult your Polaris RZR owner's manual or a qualified technician for Ride Command system diagnostics.

Specifications

- **Model:** 250-HRZ56-RCA4
- **Part Number:** 250-HRZ56-RCA4
- **UPC:** 815172022978
- **Connector Type:** RCA (Output)
- **Vehicle Compatibility:** Polaris RZR Pro Series (R, S, XP) 2020-2026
- **Included Components:** Main Ride-Command Harness, Two RCA Harnesses
- **Item Weight:** 5.28 ounces

Warranty and Support

SSV Works stands by the quality and reliability of its products. This harness is engineered for durability in demanding off-road conditions.

- For specific warranty details, please refer to the official SSV Works website or contact their customer support.
- For technical assistance or inquiries, visit the SSV Works Store on Amazon or their official website.

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