

FD-SS-04

Generic FD-SS-04 Android Wiring Harness and Canbus Box Instruction Manual

For Ford Raptor F-150 Car Radio Installations

1. INTRODUCTION

This manual provides detailed instructions for the installation and use of the Generic FD-SS-04 16-pin Android Wiring Harness and Canbus Box. This product is designed to facilitate the integration of an aftermarket Android car radio into specific Ford Raptor F-150 vehicles, ensuring proper communication between the vehicle's systems and the new head unit. Please read this manual thoroughly before installation to ensure correct setup and optimal performance.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and electrical shock.
- Ensure all connections are secure and properly insulated to avoid electrical hazards.
- If you are unsure about any part of the installation process, consult a qualified automotive technician.
- Do not modify the wiring harness or Canbus box. Unauthorized modifications can void the warranty and cause damage.
- Keep the product away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all components are present before proceeding with the installation:

- 1x 16-pin Android Wiring Harness
- 1x Canbus Box (Model: FD-SS-04)



Image: The complete package including the 16-pin Android wiring harness and the FD-SS-04 Canbus box.

4. SETUP AND INSTALLATION

This section outlines the steps for installing the wiring harness and Canbus box. Ensure the vehicle's battery is disconnected before starting.

4.1 Identify Components

Familiarize yourself with the Canbus box and its connectors.



Image: Front view of the FD-SS-04 Canbus box, showing the model number and QR code label.



Image: Side view of the FD-SS-04 Canbus box, highlighting the multi-pin connector port.

4.2 Wiring Harness Connection

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery.
2. **Remove Existing Radio:** Carefully remove the factory car radio from the dashboard.
3. **Connect Canbus Box:** Connect the dedicated connector from the 16-pin Android wiring harness to the FD-SS-04 Canbus box. Ensure it clicks securely into place.
4. **Connect to Vehicle:** Plug the vehicle-specific connectors of the wiring harness into the corresponding ports in your Ford Raptor F-150's dashboard. These typically include power, speaker, and antenna connections.
5. **Connect to Android Head Unit:** Connect the 16-pin connector of the harness to the back of your aftermarket Android car radio. Ensure all pins align correctly.
6. **Auxiliary Connections:** Connect any auxiliary wires (e.g., reverse camera trigger, steering wheel control wires, amplifier remote turn-on) as required by your Android head unit and vehicle configuration. Refer to the wiring diagram below for pin assignments.

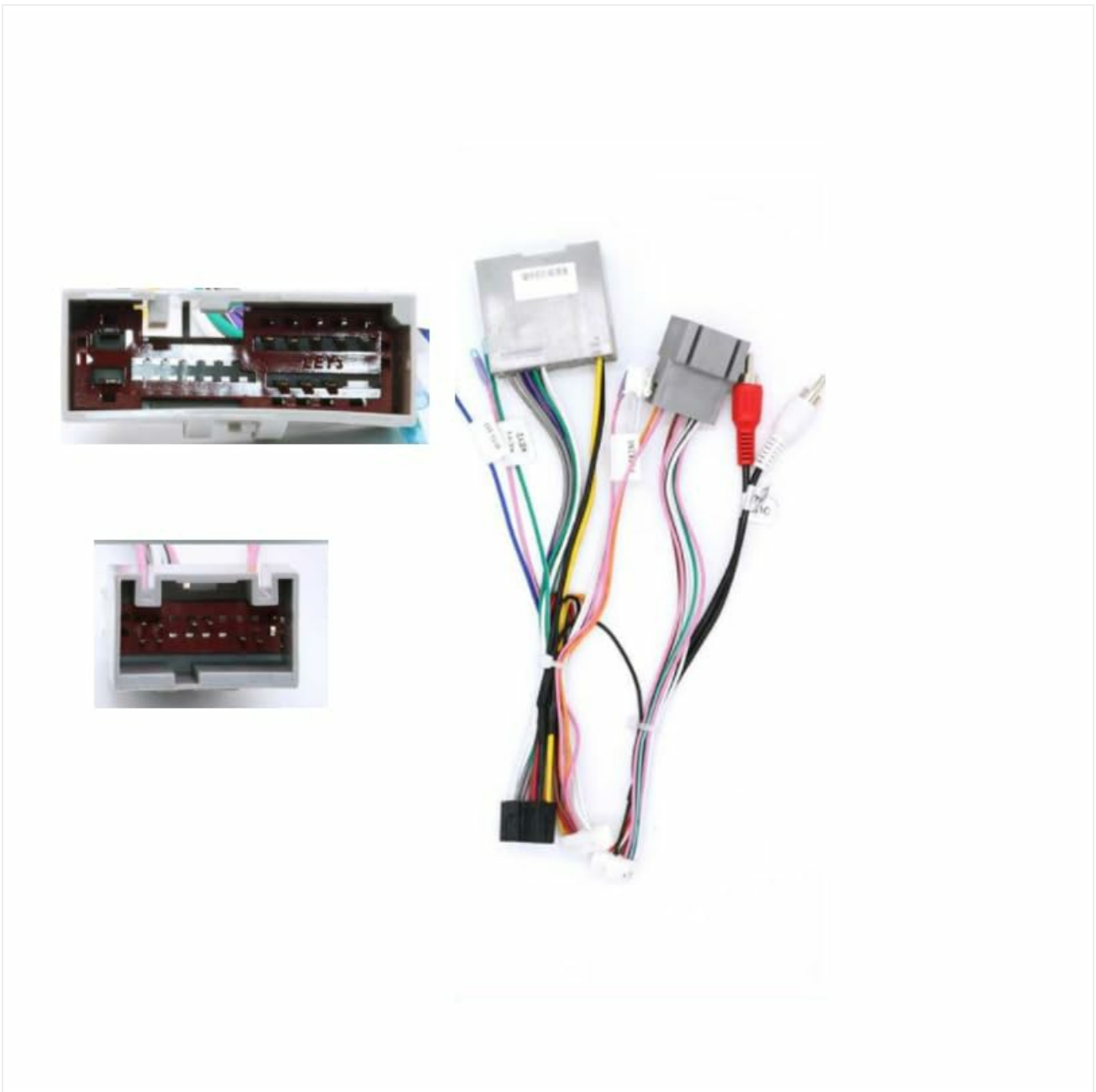


Image: The 16-pin Android wiring harness showing various connectors for vehicle and head unit integration.

4.3 Wiring Diagram (P1 Connector)

The following diagram illustrates the pin assignments for the P1 connector on the wiring harness. Use this for reference when making connections, especially for custom setups or troubleshooting.

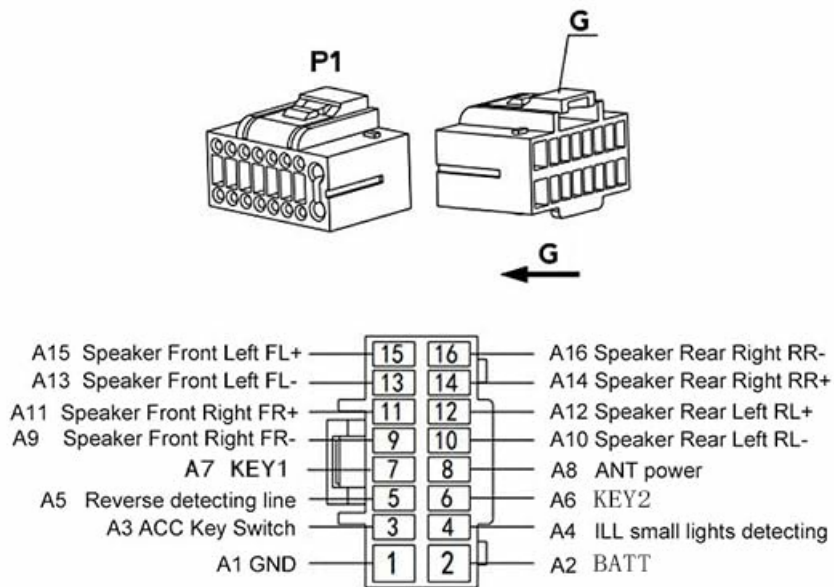


Image: Detailed wiring diagram for the P1 connector, showing pin numbers and their corresponding functions (e.g., speaker outputs, ACC key switch, reverse detecting line, antenna power).

P1 Connector Pin Assignments

Pin No.	Function	Pin No.	Function
A1	GND (Ground)	A2	BATT (Battery +12V Constant)
A3	ACC Key Switch (Accessory Power)	A4	ILL Small Lights Detecting (Illumination)
A5	Reverse Detecting Line	A6	KEY2 (Steering Wheel Control 2)
A7	KEY1 (Steering Wheel Control 1)	A8	ANT Power (Antenna Remote Turn-on)
A9	Speaker Front Right FR+	A10	Speaker Rear Left RL-
A11	Speaker Front Right FR-	A12	Speaker Rear Left RL+
A13	Speaker Front Left FL-	A14	Speaker Rear Right RR+
A15	Speaker Front Left FL+	A16	Speaker Rear Right RR-

4.4 Final Steps

7. **Reconnect Battery:** Once all connections are secure, reconnect the negative terminal of the vehicle's battery.
8. **Test System:** Turn on the vehicle and the new Android car radio. Verify that all functions (audio, steering wheel controls, reverse camera, etc.) are working correctly.
9. **Reassemble Dashboard:** Carefully reassemble the dashboard components.

5. OPERATING INSTRUCTIONS

The FD-SS-04 wiring harness and Canbus box are designed to provide seamless integration between your Ford Raptor F-150 and an aftermarket Android car radio. Once installed, the Canbus box translates vehicle data (such as ignition status, steering wheel controls, and reverse gear signals) into a format compatible with your Android head unit.

- **Power On/Off:** The Android head unit should power on and off with the vehicle's ignition.
- **Steering Wheel Controls:** If your Android head unit supports it, the Canbus box will enable the use of factory steering wheel controls for audio functions (e.g., volume, track skip). Configuration may be required within the Android head unit's settings.
- **Reverse Gear Detection:** When the vehicle is shifted into reverse, the Canbus box sends a signal to the Android head unit, typically activating a connected reverse camera display.
- **Illumination:** The illumination wire provides a signal for the head unit to dim its display when the vehicle's headlights are on.

Refer to your specific Android car radio's user manual for detailed operating instructions of the head unit itself.

6. MAINTENANCE

The FD-SS-04 wiring harness and Canbus box are designed for maintenance-free operation. No regular servicing is required.

- Ensure all connections remain secure and free from corrosion.
- Keep the Canbus box and wiring away from excessive heat, moisture, and physical damage.
- Do not attempt to open or repair the Canbus box.

7. TROUBLESHOOTING

If you encounter issues after installation, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Android head unit does not power on.	Loose power connection, blown fuse, incorrect wiring.	Check battery connection. Verify ACC and BATT wires are correctly connected (Pins A3 and A2). Check vehicle's fuse box and head unit's fuse.
No audio from speakers.	Incorrect speaker wiring, amplifier not turning on.	Verify speaker wire connections (Pins A9-A16) using the wiring diagram. Ensure amplifier remote turn-on (if applicable) is connected.
Steering wheel controls not working.	Incorrect KEY1/KEY2 connection, head unit not configured.	Check KEY1 (A7) and KEY2 (A6) connections. Configure steering wheel controls within the Android head unit's settings menu.
Reverse camera not activating.	Reverse detecting line not connected, camera power issue.	Ensure Reverse Detecting Line (A5) is correctly connected to the head unit's reverse trigger input. Verify camera power and video signal.
Canbus box feels warm.	Normal operation, or potential overload.	A slight warmth is normal. If it's excessively hot or emitting smoke/smell, disconnect power immediately and check for short circuits.

If problems persist after following these steps, contact customer support or a professional installer.

8. SPECIFICATIONS

- **Model Name:** FD-SS-04
- **Interface:** Micro SD/TF (*Note: This refers to the internal interface of the Canbus box, not an external user port.*)
- **Material Type:** Plastic
- **Item Weight:** 0.2 kg
- **Voltage:** 5V (Operating voltage for Canbus box logic)
- **Out Power:** 5W (Maximum power consumption/output for Canbus functions)
- **Compatibility:** Ford Raptor F-150 (Specific years/trimms may apply, verify with vehicle manufacturer)

9. WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. Please refer to the retailer or manufacturer's website for current warranty terms and conditions. Typically, electronic components like this come with a limited manufacturer's warranty covering defects in materials and workmanship for a specified period from the date of purchase.

Keep your proof of purchase for any warranty claims.

10. SUPPORT

For further assistance, technical support, or inquiries regarding the Generic FD-SS-04 Android Wiring Harness and Canbus Box, please contact your point of purchase or refer to the manufacturer's official support channels.

Manufacturer: HUNTAN

ASIN: B0DXPTTHW7

When contacting support, please have your product model (FD-SS-04) and purchase details readily available.



