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› MNBHUYRD Quadlock Wiring Harness CAN Bus Decoder Installation Manual for MG Vehicles

MNBHUYRD MNBHUYRD688

MNBHUYRD Quadlock Wiring Harness CAN Bus Decoder Installation Manual

Model: MNBHUYRD688

1. INTRODUCTION

This manual provides comprehensive instructions for the installation and operation of the MNBHUYRD Quadlock Wiring Harness with CAN Bus Decoder. This product is designed to integrate an aftermarket Android head unit into specific MG vehicle models, providing essential connections including power, speakers, steering wheel controls, and a reversing camera input. Please read this manual thoroughly before beginning installation to ensure proper function and safety.

2. PRODUCT OVERVIEW

The MNBHUYRD Quadlock Wiring Harness is a specialized cable adapter designed to simplify the installation of a 16-pin Android car head unit into compatible MG vehicles. It includes a CAN Bus decoder box to manage vehicle communication signals, such as ignition, illumination, and steering wheel controls, without requiring complex manual wiring. The harness also features a dedicated input for a reversing camera.

Key Features:

- 16-pin plug for direct connection to Android head units.
- Quadlock connector for seamless integration with MG vehicle wiring.
- Integrated CAN Bus decoder (Raise) for vehicle data interpretation.
- Supports reversing camera input.
- Constructed with high-quality copper wire for durability and reliable signal transmission.



Figure 2.1: Overview of the MNBHUYRD Quadlock Wiring Harness and CAN Bus Decoder components.

3. COMPATIBILITY

This wiring harness is compatible with the following MG car models equipped with a Quadlock connector:

- MG ZS (2017+)
- MG ZS EV / EZS (2018+)
- MG GS (2015+)
- MG HS (2019+)
- MG 3 MK2 (2017+)
- MG 5 MK2 (2020+)
- MG 6 MK2 (2017+)

Ensure your vehicle's existing wiring harness matches the Quadlock connector type provided with this product.

4. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- 16-pin Quadlock Wiring Harness for MG (1 piece)
- CAN Bus Decoder Box (Raise) (1 piece)
- FAKRA Male Car Antenna Cable (1 piece) (Optional, depending on variant purchased)

5. SETUP AND INSTALLATION

Important: Disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits or damage. If you are unsure about any steps, consult a professional car audio installer.

5.1 Identify Connectors

Familiarize yourself with the main connectors of the wiring harness:

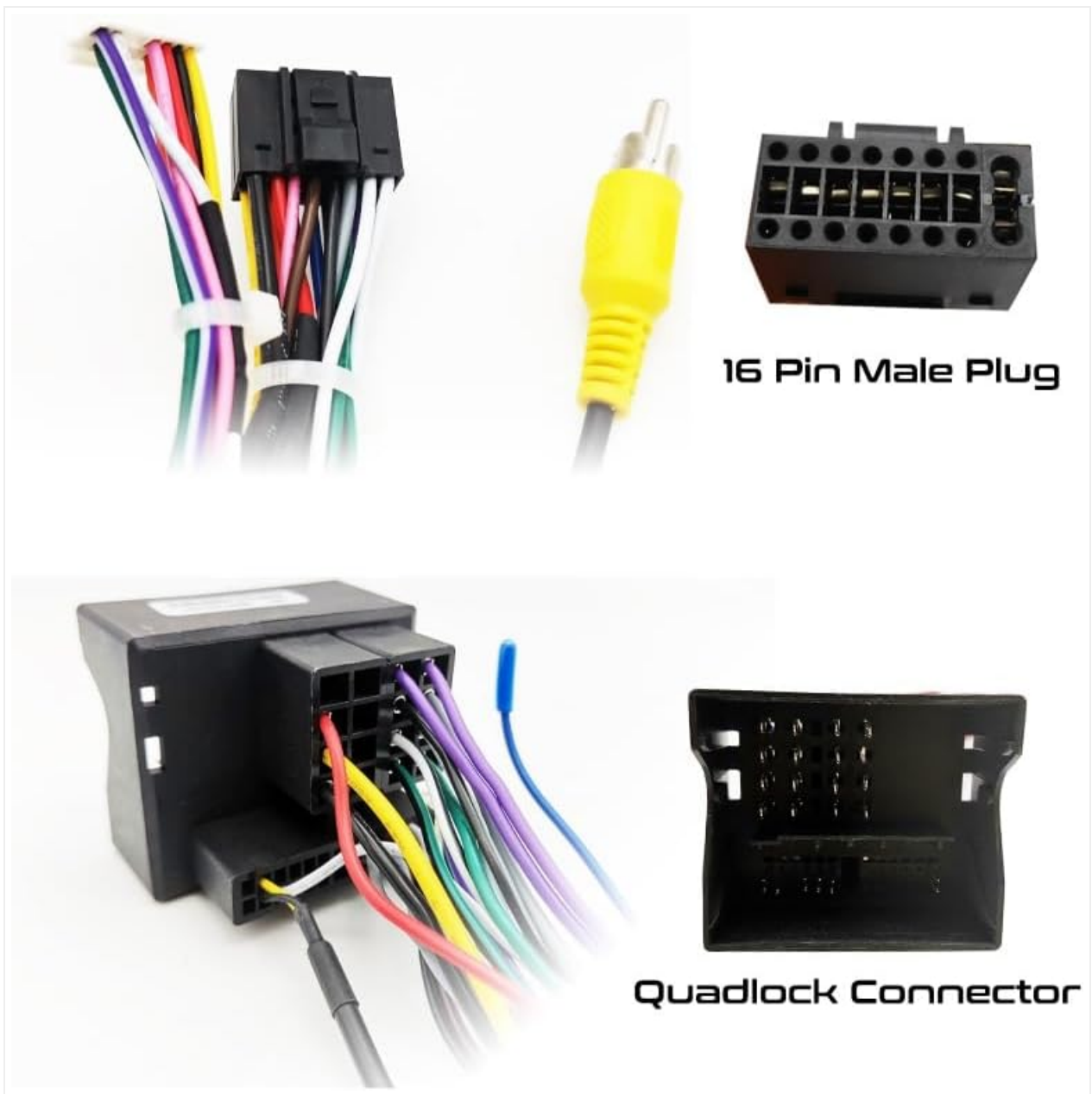


Figure 5.1: The 16-pin male plug (top right) connects to the Android head unit, and the Quadlock connector (bottom right) connects to the vehicle's factory wiring.

The harness includes specific connectors for different MG models. Ensure you use the correct connection for your vehicle:

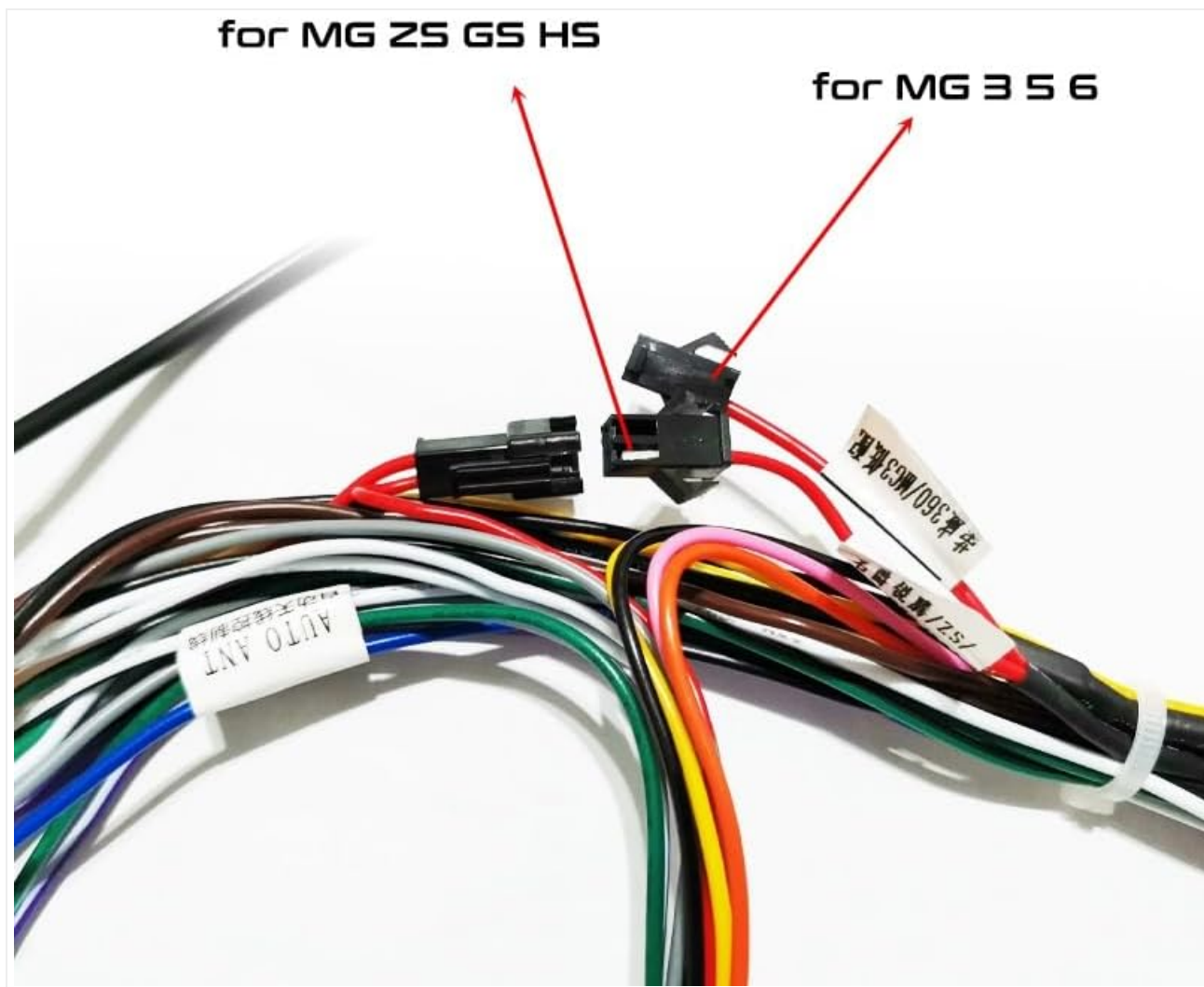


Figure 5.2: Connectors for MG ZS, GS, HS (left) and MG 3, 5, 6 (right). Match the connector to your specific MG model.

5.2 Wiring Diagram

Refer to the detailed wiring diagram below for understanding each wire's function. This diagram is crucial for proper connection, especially for features like the reversing camera and steering wheel controls.

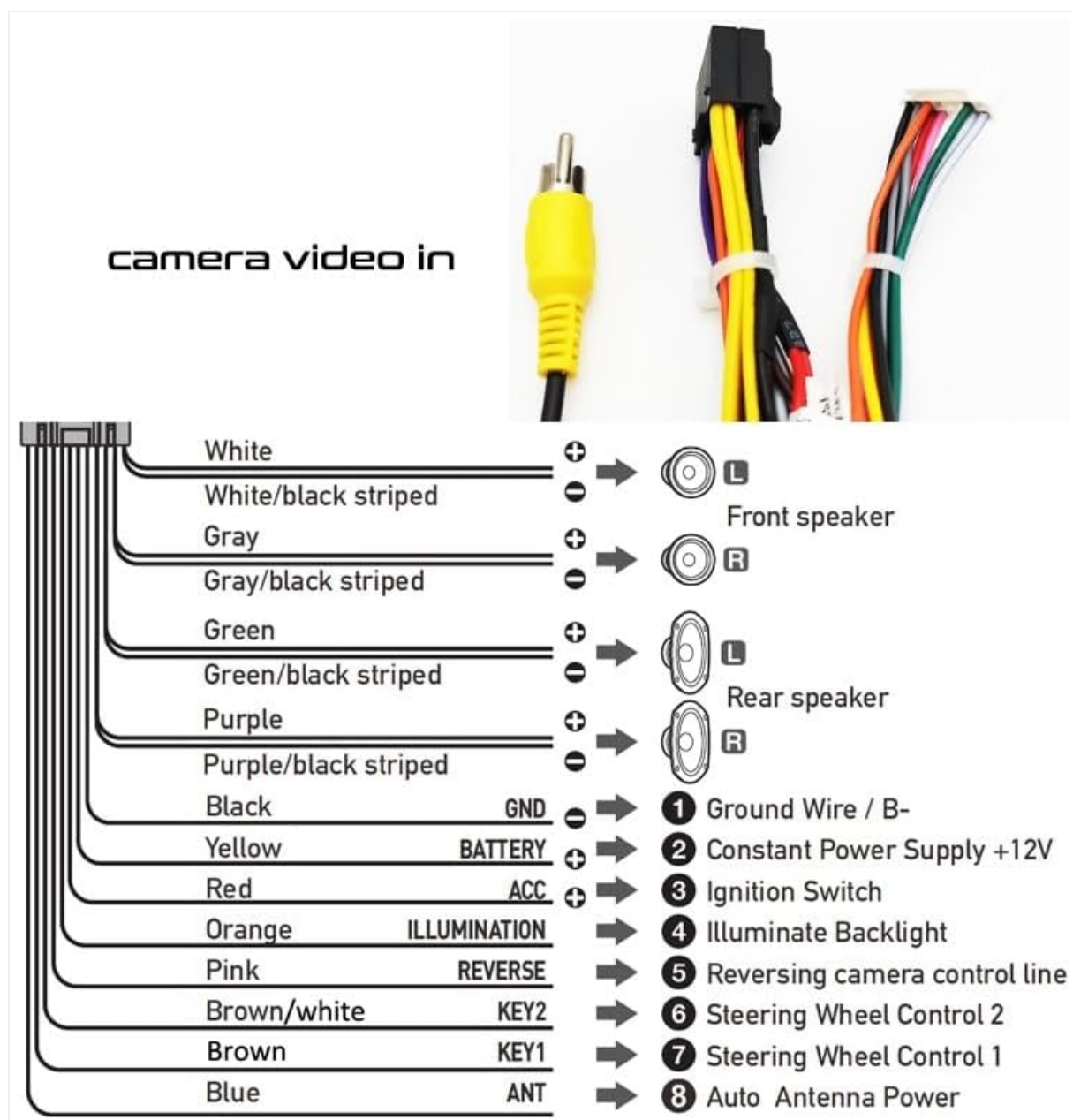


Figure 5.3: Wiring diagram illustrating the function of each colored wire in the 16-pin harness. Key connections include speaker outputs, ground, constant power (+12V), ignition switch, illumination, reversing camera control, and steering wheel controls.

- **Speaker Wires:** White/White-black (Front Left), Gray/Gray-black (Front Right), Green/Green-black (Rear Left), Purple/Purple-black (Rear Right).
- **Power Wires:** Black (GND - Ground), Yellow (BATTERY - Constant Power +12V), Red (ACC - Ignition Switch).
- **Control Wires:** Orange (ILLUMINATION - Backlight), Pink (REVERSE - Reversing camera control line), Brown/white (KEY2 - Steering Wheel Control 2), Brown (KEY1 - Steering Wheel Control 1), Blue (ANT - Antenna Power).
- **Camera Input:** Yellow RCA connector for video input from a reversing camera.

5.3 Connection Steps

1. **Remove Factory Head Unit:** Carefully remove your vehicle's existing head unit according to your car's service manual.
2. **Connect Quadlock:** Connect the large Quadlock connector from the MNBHUYRD harness to the corresponding factory harness in your vehicle. Ensure it clicks securely into place.
3. **Connect CAN Bus Decoder:** Plug the CAN Bus decoder box into its designated connectors on the harness.
4. **Connect to Android Head Unit:**

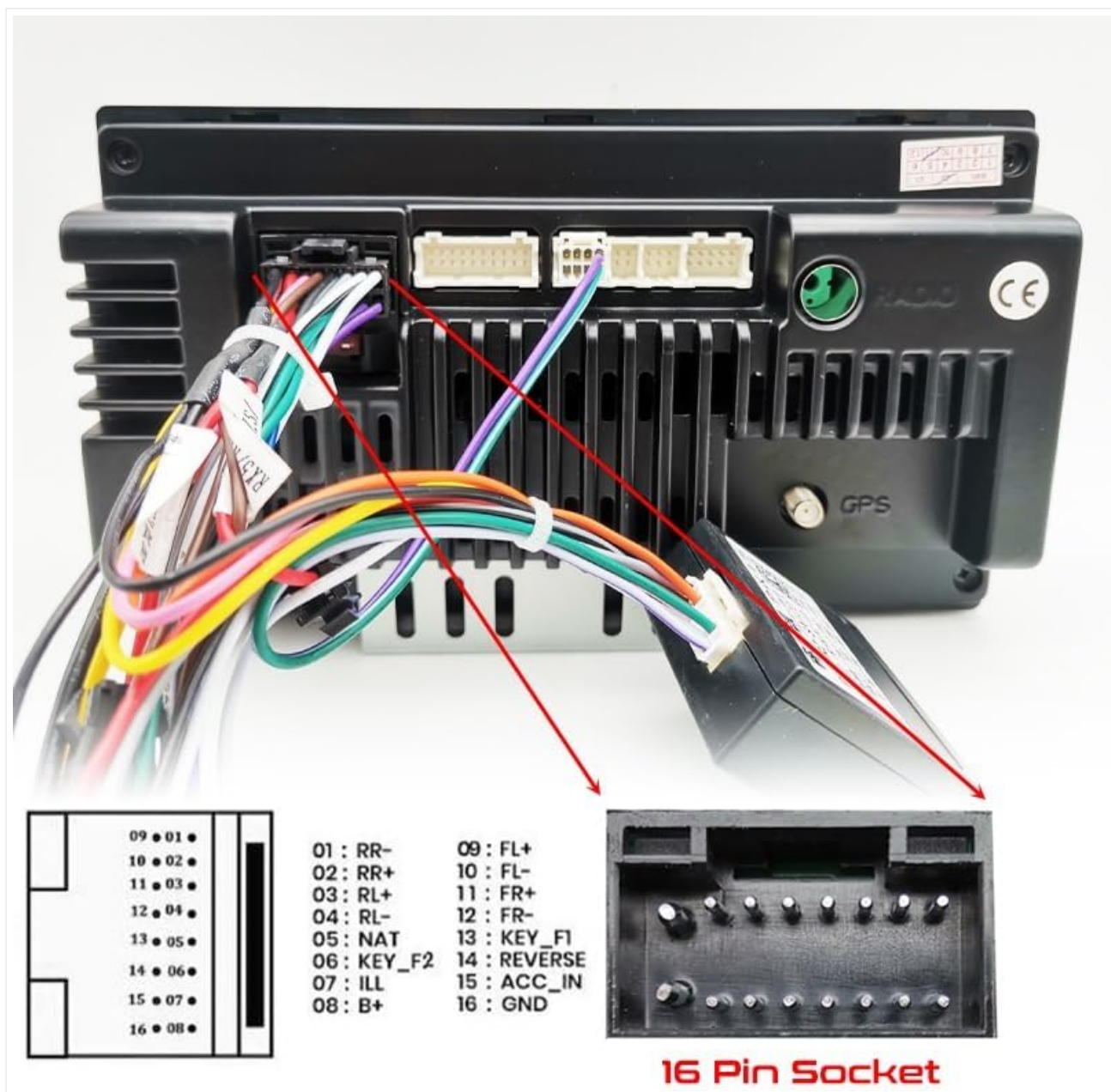


Figure 5.4: The 16-pin socket on the rear of an Android head unit, showing pin assignments.

Connect the 16-pin male plug of the MNBHUYRD harness to the 16-pin socket on the back of your Android head unit. Refer to Figure 5.4 for the typical pinout of a 16-pin Android head unit socket. Ensure all pins align correctly.



Figure 5.5: The MNBHUYRD wiring harness fully connected to an Android head unit, ready for installation into the vehicle dashboard.

5. **Connect Reversing Camera (Optional):** If installing a reversing camera, connect its video output RCA cable to the yellow RCA input on the MNBHUYRD harness. Ensure the camera's power and ground are connected correctly (usually to the reverse light circuit).
6. **Connect FAKRA Antenna (Optional):** If your variant includes the FAKRA male car antenna cable, connect it from the vehicle's antenna input to the antenna input on your Android head unit.
7. **Test Connections:** Before fully reassembling the dashboard, reconnect the vehicle battery and test the head unit's functions: power on/off, audio, steering wheel controls, and reversing camera (if installed).
8. **Secure Wiring and Reassemble:** Once all functions are verified, carefully route and secure all wiring to prevent pinching or rattling. Reassemble the dashboard components.

6. OPERATING INSTRUCTIONS

Once installed, the MNBHUYRD Quadlock Wiring Harness facilitates the operation of your Android head unit by providing the necessary power, audio, and control signals from your MG vehicle.

- **Power On/Off:** The head unit should power on and off with the vehicle's ignition, controlled by the ACC wire and

CAN Bus decoder.

- **Steering Wheel Controls:** The CAN Bus decoder translates your vehicle's steering wheel control signals for the Android head unit. You may need to configure these controls within your Android head unit's settings menu. Refer to your head unit's manual for specific instructions on mapping steering wheel buttons.
- **Reversing Camera:** When the vehicle is shifted into reverse, the head unit should automatically display the video feed from the connected reversing camera. This is triggered by the REVERSE signal provided by the harness.
- **Illumination:** The head unit's backlight should adjust with the vehicle's headlights, controlled by the ILLUMINATION signal.

7. MAINTENANCE

The MNBHUYRD Quadlock Wiring Harness is designed for long-term reliability and requires minimal maintenance. Ensure all connections remain secure and free from moisture or excessive vibration. Periodically check for any loose wires or damaged insulation, especially if you experience intermittent issues with your head unit.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Head unit does not power on.	Loose power connection (Yellow/Red wires), blown fuse, incorrect CAN Bus decoder connection.	Check all power connections. Verify vehicle fuses. Ensure CAN Bus decoder is correctly plugged in. Reconnect vehicle battery.
No audio from speakers.	Loose speaker wire connections, incorrect speaker polarity, head unit settings.	Verify all speaker wire connections (Figure 5.3). Check head unit's audio settings.
Steering wheel controls do not work.	Incorrect KEY1/KEY2 connections, CAN Bus decoder issue, head unit not configured.	Ensure KEY1/KEY2 wires are connected. Verify CAN Bus decoder is functioning. Configure steering wheel controls in the Android head unit's settings.
Reversing camera does not display.	Loose RCA connection, incorrect REVERSE wire connection, camera power issue, head unit settings.	Check yellow RCA video input. Ensure Pink REVERSE wire is connected and receiving signal. Verify camera power supply. Check head unit's camera input settings.
Head unit backlight does not dim/brighten with vehicle lights.	Loose ILLUMINATION wire connection, CAN Bus decoder issue.	Verify Orange ILLUMINATION wire connection. Ensure CAN Bus decoder is correctly installed.

9. SPECIFICATIONS

Feature	Detail
Product Name	Quadlock Wiring Harness CAN Bus Decoder
Model Number	MNBHUYRD688
Brand	MNBHUYRD

Feature	Detail
Connector Type (Head Unit)	16-pin Male Plug
Connector Type (Vehicle)	Quadlock Female Connector
CAN Bus Decoder	Included (Raise brand)
Camera Input	Yes (RCA)
Material	Copper (wires)
Item Weight	50 Grams (approx. 1.76 ounces)
Package Dimensions	1.18 x 0.79 x 0.39 inches

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase. Do not attempt to modify the wiring harness or CAN Bus decoder, as this may void your warranty and could cause damage to your vehicle or head unit.

