

KTRCSA KTRCSA

KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness. This product is designed for use in new energy vehicles and is compatible with Delong Auman systems requiring part number 1-1703639-1. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and vehicle:

- Disconnect the vehicle's battery before performing any electrical work.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- If you are unsure about any installation step, consult a qualified automotive technician.
- Do not modify the wiring harness. Unauthorized modifications can lead to malfunction or safety hazards.

3. PACKAGE CONTENTS

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

- 1 x KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness (1 Pc 12P Wire harness)

4. PRODUCT OVERVIEW

The KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness is an essential component for the urea injection

system in compatible new energy vehicles. It features a robust 12-pin connector designed for reliable electrical connections.



Figure 1: Close-up of the 12-Pin connector with its yellow locking tab.



Figure 2: The complete wiring harness, featuring the connector and protective conduit.



Figure 3: Side profile of the connector, showing its angled housing.



Figure 4: Detailed view of the connector's housing and locking features.

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Video 1: A 38-second demonstration showcasing the KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness from various angles, highlighting its design and components.

5. SETUP AND INSTALLATION

This section outlines the general steps for installing the wiring harness. Specific vehicle service manuals should be consulted for detailed, model-specific instructions.

5.1 Pre-Installation Checklist

- Ensure the vehicle's ignition is off and the battery is disconnected.

- Identify the location of the urea pump and its existing wiring harness.
- Confirm that the KTRCSA harness matches the existing connector type and pin configuration.
- Gather necessary tools (e.g., wrenches, wire strippers, crimpers, electrical tape).

5.2 Installation Steps

1. Carefully disconnect the old wiring harness from the urea pump, if applicable.
2. Inspect the urea pump's receptacle for any damage or corrosion. Clean if necessary.
3. Connect the KTRCSA 12-Pin wiring harness to the urea pump. Ensure the connector clicks securely into place and the yellow locking tab is fully engaged.
4. Route the new wiring harness along the original path, securing it with clips or zip ties to prevent chafing or interference with moving parts.
5. Connect the individual wires of the harness to the vehicle's electrical system according to the vehicle manufacturer's wiring diagram. Pay close attention to wire color codes and pin assignments.
6. Once all connections are made and secured, reconnect the vehicle's battery.
7. Test the urea pump system to ensure proper operation.

6. OPERATING INSTRUCTIONS

The KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness functions as an electrical conduit for the urea pump. Its operation is integrated with the vehicle's engine management system. No direct user interaction is required with the harness itself once installed. Ensure the vehicle's urea (DEF) tank is adequately filled for the system to operate correctly.

7. MAINTENANCE

Regular maintenance of the wiring harness is minimal but important for longevity:

- Periodically inspect the harness for any signs of wear, fraying, or damage to the outer conduit.
- Check the connector for secure fitment and ensure the locking tab is still engaged.
- Keep the connector free from dirt, moisture, and corrosive substances. Use a clean, dry cloth for cleaning.
- Avoid exposing the harness to extreme temperatures or harsh chemicals.

8. TROUBLESHOOTING

If you experience issues with your urea pump system after installing the harness, consider the following common troubleshooting steps:

- **No Power to Urea Pump:** Check all electrical connections, including the battery terminals and relevant fuses. Ensure the harness is fully seated in the pump receptacle.
- **Intermittent Operation:** Inspect the harness for loose connections or damaged wires. Verify that the locking tab on the connector is fully engaged.
- **Error Codes Related to Urea System:** While the harness itself is passive, a faulty connection can trigger system errors. Re-check all wiring according to the vehicle's service manual. If issues persist, consult a professional technician for diagnostic testing.
- **Physical Damage:** If the harness shows signs of physical damage (cuts, abrasions, melted insulation), it must be replaced immediately.

9. SPECIFICATIONS

Feature	Detail
Brand	KTRCSA
Model Number	KTRCSA
Compatibility	Delong Auman 1-1703639-1 (Urea Pump Plug)
Connector Type	12-Pin, 2.2
Item Weight	1.18 pounds
Package Dimensions	19.69 x 19.69 x 13.78 inches

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your KTRCSA 12-Pin 2.2 Urea Pump Plug Wiring Harness, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase. Do not attempt to repair the harness yourself, as this may void any applicable warranty.