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Model: 2-Pin USB Programming Cable

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1. PRODUCT OVERVIEW

The LUITON 2-Pin USB Programming Cable is designed to connect compatible two-way radios to a personal computer for programming purposes. This cable facilitates the transfer of configuration data, such as frequency settings, channel names, and other operational parameters, between the radio and programming software running on your computer. It features a standard USB connector for the computer end and a 2-pin connector for the radio, with a 3.5mm stereo top pin for the ear and a 2.5mm stereo bottom pin for the microphone.

Key Features:

- Enables PC-based radio programming.
- Compatible with most radios featuring a 2-pin microphone connector.
- Standard 2-pin diameter: 3.5mm stereo (top pin) and 2.5mm stereo (bottom pin).

2. SETUP INSTRUCTIONS

Follow these steps to set up your LUITON 2-Pin USB Programming Cable for use:

2.1. Connect the Cable to Your Computer

1. Locate an available USB port on your computer.
2. Insert the USB end of the programming cable firmly into the USB port. Your computer may attempt to install drivers automatically.



Image: LUITON 2-Pin USB Programming Cable. This image shows the cable with its USB connector and the 2-pin radio connector.

2.2. Driver Installation

For the cable to function correctly, the appropriate USB driver must be installed. In some cases, Windows may install a generic driver that does not work. If automatic driver installation fails or the cable is not recognized, manual driver installation may be required.

- **Automatic Installation:** Upon connecting the cable, your operating system (e.g., Windows, macOS, Linux) may automatically detect and install the necessary drivers. Wait for this process to complete.
- **Manual Installation:** If the cable is not recognized or shows an error in Device Manager (Windows), you may need to download and install the correct USB to Serial driver (often Prolific or FTDI) for your operating system. Refer to the cable manufacturer's website or the radio programming software documentation for specific driver recommendations and installation instructions.
- **Troubleshooting Driver Issues:** If you encounter issues, particularly on Windows 10, you might need to try older driver versions or specific drivers recommended by the radio programming software community.

2.3. Install Radio Programming Software

Before connecting the cable to your radio, ensure you have the appropriate programming software installed on your computer. Popular software includes CHIRP (for many Baofeng, Kenwood, and Retevis models) or

manufacturer-specific software.

1. Download the correct programming software for your specific radio model from the radio manufacturer's website or a trusted source like the CHIRP website.
2. Install the software following the on-screen instructions.

2.4. Connect the Cable to Your Radio

1. Ensure your radio is turned off.
2. Locate the 2-pin accessory port on your radio.
3. Insert the 2-pin connector of the programming cable into the radio's accessory port. Ensure it is fully seated.
4. Turn on your radio.

3. OPERATING INSTRUCTIONS

Once the cable is connected and drivers/software are installed, you can proceed with programming your radio.

3.1. Basic Programming Steps

1. **Launch Programming Software:** Open the radio programming software (e.g., CHIRP) on your computer.
2. **Select COM Port:** In the software settings, identify and select the correct COM port assigned to your USB programming cable. You can usually find this in your computer's Device Manager (Windows) under "Ports (COM & LPT)".
3. **Read from Radio:** Use the software's "Read from Radio" or "Download" function to retrieve the current configuration from your radio. This is a crucial step to back up your radio's existing settings before making changes.
4. **Edit Settings:** Modify the radio settings as desired within the software interface. This may include frequencies, channel names, power levels, squelch settings, and other features.
5. **Write to Radio:** After making your desired changes, use the software's "Write to Radio" or "Upload" function to transfer the new configuration to your radio. Ensure the radio remains connected and powered on during this process.
6. **Verify:** Once programming is complete, disconnect the cable and test your radio to ensure the new settings are correctly applied and functioning as expected.

3.2. Compatible Radios

This cable is compatible with a wide range of two-way radios that use a standard 2-pin connector.

Examples include:

- **Baofeng:** UV5R, BF-888S/480/490/320/V6/V7/V8/658/520/530/999/888/777/666S/777S
- **Retevis:** H-777, RT-22
- **LUITON:** LT-458, LT-316
- **Kenwood:** KPG27D, KPG29D, KPG48D, KPG49, KPG55D, KPG56D, KPG62D, KPG66D, KPG69D, KPG70D, KPG74D, KPG75D, KPG77D, KPG82D, KPG87D
- **Kenwood TH Series:** TH-D7, TH-D7A, TH-D7AG, TH-D7E, TH-F6, TH-F6A, TH-F7, TH-F7E, TH-G71, TH-G71A, TH-G71E, TH-K2, TH-K2A, TH-K2E, TH-K2ET, TH-21, TH-21AT, TH-21BT, TH-22, TH-22A, TH-22AT, TH-22E, TH-25, TH-26, TH-27, TH-28, TH31AT, TH31BT, TH41AT, TH41BT, TH-

42, TH-42A

- **Kenwood TK Series:** TK-208/308, TK-220/320, TK-240/340, TK-240D/340D, TK-248/348

Always verify compatibility with your specific radio model and programming software.

4. MAINTENANCE

Proper care and maintenance will extend the life of your programming cable:

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures. Avoid tightly coiling the cable to prevent damage to the internal wires.
- **Cleaning:** Use a soft, dry cloth to clean the cable and connectors. Do not use liquid cleaners or solvents.
- **Handling:** Always grasp the connector ends when plugging or unplugging the cable, rather than pulling on the cable itself, to prevent strain and damage.
- **Inspection:** Periodically inspect the cable for any signs of wear, fraying, or damage to the connectors. Discontinue use if damage is observed.

5. TROUBLESHOOTING

If you encounter issues while using the programming cable, consider the following troubleshooting steps:

- **Cable Not Recognized by Computer:**
 - Ensure the USB connector is fully inserted into the computer's port.
 - Try a different USB port on your computer.
 - Verify that the correct USB driver is installed. Check Device Manager (Windows) for "Ports (COM & LPT)" and look for a USB Serial Port. If there's an error, reinstall the driver, potentially trying an older version if on Windows 10.
 - Restart your computer.
- **Programming Software Cannot Connect to Radio:**
 - Confirm the radio is turned on and the cable's 2-pin connector is fully seated in the radio's accessory port.
 - Ensure the correct COM port is selected in your programming software.
 - Verify that you are using the correct programming software version for your specific radio model.
 - Try closing and reopening the programming software.
 - Check the radio's settings; some radios require a specific mode for programming.
- **Programming Errors or Failures:**
 - Ensure the radio's battery is sufficiently charged.
 - Avoid interrupting the programming process.
 - Consult the documentation for your specific radio model and programming software for error codes or specific troubleshooting steps.

For persistent issues, refer to online forums or support communities for your specific radio and programming software, as driver and software compatibility can vary.

6. SPECIFICATIONS

Brand	LUITON
Model	2-Pin USB Programming Cable
Connector Type (Radio)	2-Pin (3.5mm stereo top pin, 2.5mm stereo bottom pin)
Connector Type (Computer)	USB
Hardware Interface	2.5mm Audio, 3.5mm Audio, USB
Compatible Devices	PC, Baofeng, Retevis, Kenwood walkie-talkies with 2-pin connector
Package Dimensions	9.4 x 9 x 3.2 cm
Item Weight	18 g

7. WARRANTY AND SUPPORT

This product is manufactured by LUITON. For specific warranty information, please refer to the documentation provided with your purchase or contact the seller directly. Warranty terms may vary based on region and retailer.

For technical support or assistance with product-related issues, please contact the seller or the manufacturer, LUITON. Ensure you have your purchase details and product model information available when seeking support.