

Moto G51 5G

Instruction Manual

GENERIC TFT LCD SCREEN AND DIGITIZER ASSEMBLY FOR MOTOROLA MOTO G51 5G

Introduction

This manual provides essential instructions for the proper installation and care of your new TFT LCD Screen and Digitizer Full Assembly for the Motorola Moto G51 5G. Please read all instructions carefully before proceeding with installation to ensure optimal performance and prevent damage.

Important Safety Information and Pre-Installation Notes

Screen replacement is a delicate procedure. Adherence to these guidelines is crucial to prevent damage to the new screen or your device.

- Test Before Installation:** Before removing any protective film or tags, thoroughly test the new screen. Connect the screen to the motherboard (without fully installing) and power on the device to verify functionality. If the screen does not display correctly, contact support immediately. Do not force installation if issues are present.
- Static Electricity Precautions:** Static electricity can damage electronic components. Always ground yourself using an ESD (Electro Static Discharge) strap before handling the screen or internal phone components.
- Eye Protection:** Wear appropriate eye protection during the repair process to guard against glass splinters or other debris. Exercise caution to avoid cutting your fingers.
- Cable Handling:** The LCD flex cable is fragile. Do not over-bend it beyond 90 degrees, as this can cause a black display or permanent damage.



Image: Front and back view of the TFT LCD screen and digitizer assembly. The front shows the display area, and the back reveals the flex cable and connectors.

Product Overview

This product is a replacement TFT LCD display and touch screen digitizer assembly designed for the Motorola Moto G51 5G. It is intended to replace old, broken, cracked, or damaged screens, restoring your device's visual and touch functionality.



Image: Detailed view of the flex cable and its connection point on the screen assembly.

Installation Guide

Professional installation is highly recommended. Incorrect installation can lead to damage to the screen or the device. The following steps are general guidelines.

1. **Preparation:** Power off your Motorola Moto G51 5G completely. Gather all necessary tools (e.g., screwdrivers, prying tools, heat gun/hair dryer, ESD strap).
2. **Remove Old Screen:** Carefully heat the edges of the old screen to loosen the adhesive. Use prying tools to gently separate the old screen from the phone frame. Disconnect the flex cables.
3. **Clean Frame:** Remove any remaining adhesive or glass fragments from the phone frame. Ensure the surface is clean and smooth for the new screen.
4. **Pre-Installation Test:** As mentioned in the safety notes, connect the new screen's flex cable to the motherboard without fully adhering it. Power on the phone to test display, touch functionality, and any other relevant features. If the test is successful, power off the phone.
5. **Install New Screen:** Apply new adhesive to the phone frame. Carefully align the new screen assembly and press it firmly into place. Reconnect all flex cables securely.
6. **Final Assembly:** Reassemble any other components removed during the process.

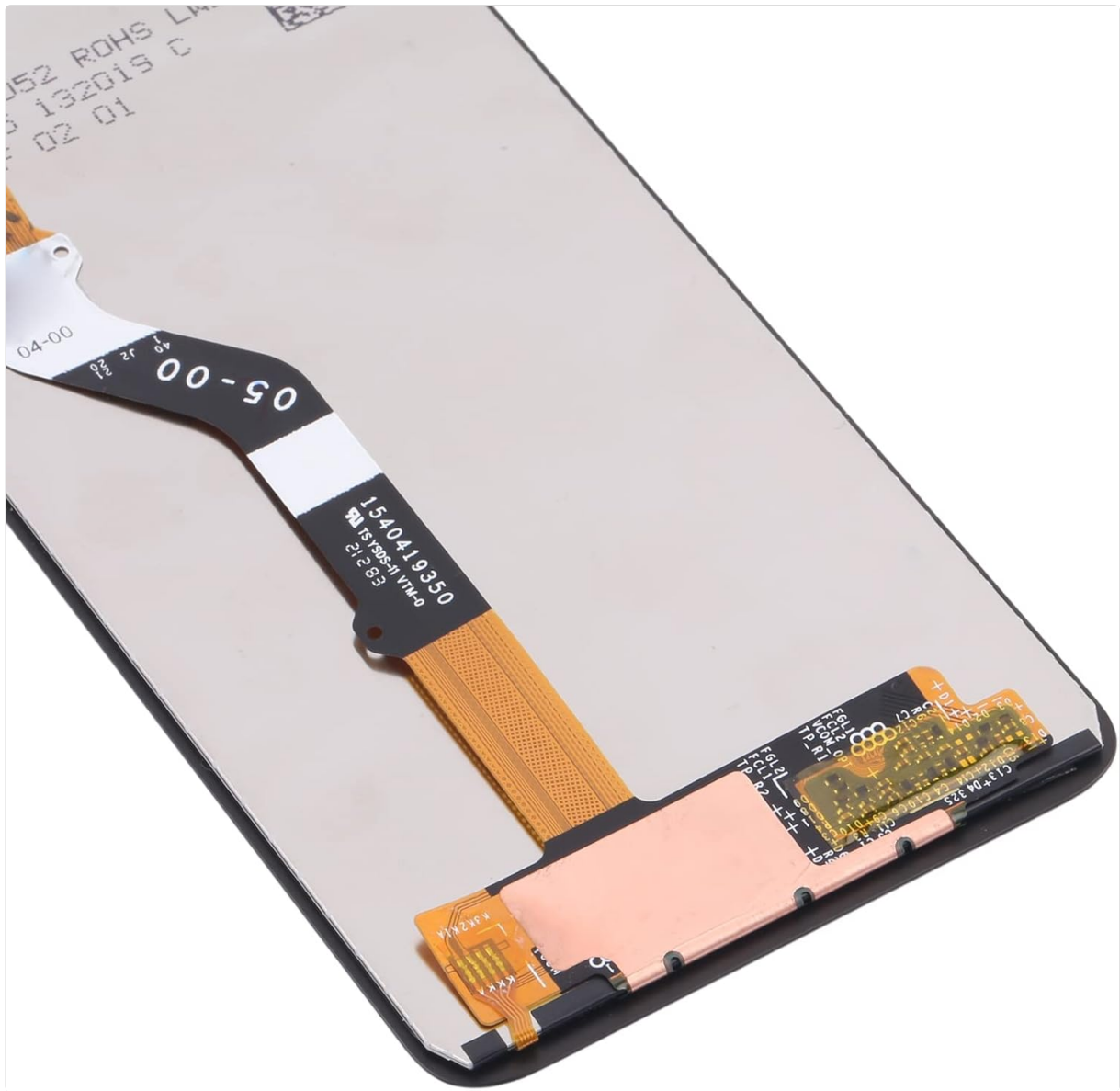


Image: Close-up of the screen's flex cable connection, emphasizing careful handling.

Post-Installation Check

After installation, power on your device and perform the following checks:

- Verify that the display is clear, bright, and free of dead pixels or discoloration.
- Test the touch functionality across the entire screen, including multi-touch gestures.
- Check for proper functioning of the front camera, earpiece, and sensors (proximity, ambient light) located near the top of the screen.

Maintenance

To prolong the life and maintain the clarity of your new screen:

- Avoid dropping the device or subjecting it to strong impacts.
- Clean the screen with a soft, lint-free cloth, preferably microfiber. Do not use harsh chemicals or abrasive materials.
- Consider using a screen protector for added scratch resistance.
- Keep the device away from extreme temperatures and excessive moisture.

Troubleshooting

- **Black Display After Installation:**
 - Ensure all flex cables are securely connected and not damaged.
 - Check if the LCD cable was over-bent during installation (over 90 degrees can cause this).
 - Re-seat the battery connector.
- **Touch Screen Not Responding:**
 - Verify the digitizer flex cable is properly connected.
 - Restart the device.
- **Display Issues (e.g., lines, discoloration):**
 - This may indicate a damaged flex cable or a faulty screen. Re-check connections.
 - If issues persist after re-checking connections and restarting, contact the seller before attempting further repairs.

Product Specifications

Compatible Devices	Cellphone
Compatible Phone Models	Motorola Moto G51 5G
Material	Glass
Screen Surface Description	Glossy
Unit Count	1 Count
Item Weight	13.4 ounces
Manufacturer	HUANGYUNCHAO



Image: Product preparation process, detailing quality control and packaging steps.

Warranty and Support

This product is a replacement part. The manufacturer recommends professional installation. The manufacturer will not be responsible for any damage incurred once the screen is installed, especially if the pre-installation testing guidelines were not followed.

For any issues encountered during the pre-installation testing phase, or if you have questions regarding the product, please contact the seller directly for assistance.