

## MALOOS Samsung Galaxy S20 FE

# MALOOS 6.5-inch Original Samsung Galaxy S20 FE LCD Screen Replacement Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of the MALOOS 6.5-inch Original LCD Screen Replacement for Samsung Galaxy S20 FE models. Please read this guide thoroughly before beginning the replacement process to ensure proper installation and optimal performance. This product is designed for users with technical aptitude and experience in phone repair.

## 2. PRODUCT OVERVIEW AND SPECIFICATIONS

### Product Features

- Quality Guarantee:** All products undergo strict QC testing before shipment, ensuring 100% intact condition with no scratches, dead zones, dot pixels, or lines on the screen. Features high color saturation, high resolution, wide color gamut, and a smooth touch experience.
- Integrated Frame:** This screen replacement includes a pre-assembled frame, simplifying the installation process and reducing the risk of damage during assembly.
- Original Quality:** Manufactured with high-quality materials to match original screen specifications. Ensures normal functionality, perfect fingerprint recognition, display, and touch response.

### Technical Specifications

Parameter	Value
Screen Size	6.5 inches
Resolution	2400x1080 pixels
Compatible Models	Samsung Galaxy S20 FE (SM-G780F, SM-G780F/DS, SM-G780G, SM-G780G/DS, SM-G781U, SM-G781U1, SM-G781W, SM-G781B, SM-G781B/DS, SM-G981V)
Color	Black Frame



## Screen compatibility parameters

*Compatible Models: For Samsung S20 FE / S20 Lite*

---

Compatible Version: S20 FE ( SM-G780F , SM-G780F/DS , SM-G781B , SM-G781U , SM-G781U1 , SM-G781W , SM-G781N )

---

Screen size : 6.5 inches

---

Resolution : 2400x1080

---

Product Features :

Original  
No spots  
No scratches  
No dead pixels

---

*This image provides a detailed breakdown of the screen's compatibility. It lists compatible models such as Samsung S20 FE / S20 Lite, specific version numbers (SM-G780F, SM-G781U, etc.), a screen size of 6.5 inches, and a resolution of 2400x1080 pixels. It also highlights product features like 'Original', 'No spots', 'No scratches', and 'No dead pixels'.*

### 3. SAFETY INFORMATION

---

Always prioritize safety when performing electronic repairs. Failure to follow these guidelines may result in injury or damage to your device.

- **Power Off:** Ensure your device is completely powered off and disconnected from any power source before beginning.
- **Static Discharge:** Use an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD), which can damage sensitive electronic components.
- **Handle with Care:** LCD screens and flex cables are delicate. Avoid bending, twisting, or applying excessive force.
- **Eye Protection:** Wear safety glasses to protect your eyes from small flying debris or glass shards.
- **Battery Safety:** Exercise extreme caution when handling the battery. Puncturing or damaging a lithium-ion battery can cause fire or explosion.
- **Organize Components:** Keep track of all screws and small parts. Using a magnetic mat can be helpful.

## 4. INSTALLATION GUIDE

---

### Required Tools

While some basic tools may be included with your screen replacement, additional tools are often necessary for a successful repair.

- Small Phillips head screwdriver
- Pentalobe screwdriver (if applicable for your phone model)
- Spudger or plastic opening tools
- Suction cup
- Heat gun or hair dryer
- Tweezers
- New adhesive strips (for re-sealing the back cover)

### Preparation

- **Backup Data:** Before any repair, back up all important data from your phone to a cloud service or computer.
- **Power Off:** Completely power off your Samsung Galaxy S20 FE.
- **Discharge Battery:** If possible, discharge the battery below 25% to reduce the risk of fire if accidentally damaged during repair.
- **Clear Workspace:** Work on a clean, well-lit, and organized surface.

### Step-by-Step Installation

The following steps outline the general process for replacing the screen. Specific details may vary slightly by model variant. Refer to online video guides for your exact model for visual assistance.



*This image displays the complete screen replacement unit. On the left is the front of the display, featuring a 'SUPER AMOLED Original' logo and 'With black frame' text. On the right is the rear view, showing the integrated frame, flex cable connections, and mounting screw points for the phone's internal components.*

1. **Heat the Back Cover:** Use a heat gun or hair dryer to gently heat the edges of the phone's back cover. This softens the adhesive.
2. **Remove Back Cover:** Carefully use a suction cup and plastic opening tools to pry open and remove the back cover. Be gentle to avoid damaging internal components or the cover itself.
3. **Remove Screws and Mid-Frame:** Unscrew all visible screws securing the mid-frame (usually Phillips head). Carefully remove the mid-frame, which often covers the battery and logic board.
4. **Disconnect Battery:** Locate the battery connector on the logic board and carefully disconnect it using a plastic spudger. This is a critical safety step.
5. **Disconnect Flex Cables:** Disconnect all flex cables connected to the old screen assembly (display, digitizer, and potentially others like the charging port flex if integrated).
6. **Remove Old Screen Assembly:** Since this replacement comes with a frame, you will need to transfer all internal components from your old frame to the new one. This includes the logic board, battery, cameras, speakers, vibration motor, and any other modules. Carefully detach each component.

7. **Clean the New Frame:** Ensure the new frame is clean and free of dust or debris before transferring components.
8. **Transfer Components to New Frame:** Carefully install all removed components into the new screen assembly's frame. Ensure they are seated correctly and all screws are re-inserted.



*This composite image shows four detailed views of the screen replacement. The top-left panel shows the top edge of the screen with the earpiece grille. The top-right panel shows the bottom edge with the USB-C port and microphone. The bottom-left panel highlights the flex cable connection points on the rear of the screen assembly. The bottom-right panel shows the camera cutout and other internal component mounting areas within the frame.*

9. **Connect New Screen Flex Cables:** Carefully connect the display and digitizer flex cables from the new screen assembly to their respective connectors on the logic board.
10. **Reconnect Battery:** Reconnect the battery flex cable to the logic board.
11. **Initial Test:** Before fully reassembling, briefly power on the phone to test the new screen's functionality (display, touch, brightness). Power off again after testing.
12. **Reassemble Mid-Frame:** Reattach the mid-frame and secure it with all screws. Ensure no cables are pinched.
13. **Apply New Adhesive:** Apply new adhesive strips around the edges of the phone's frame where the back cover attaches.
14. **Reattach Back Cover:** Carefully align and press the back cover onto the phone, ensuring a secure seal.

## 5. INITIAL OPERATION AND TESTING

---

After successful installation, perform the following checks to ensure full functionality:

- **Power On:** Press and hold the power button to turn on your device.
- **Display Check:** Verify that the display shows images clearly, without any lines, spots, or discoloration. Check for uniform brightness.
- **Touch Functionality:** Test the touch screen across the entire display. Drag an app icon around the screen to ensure all areas respond to touch.
- **Brightness Adjustment:** Confirm that screen brightness can be adjusted correctly.
- **Fingerprint Sensor:** If your device uses an in-display fingerprint sensor, re-register your fingerprints and test its functionality.
- **Camera Test:** Open the camera app to ensure front and rear cameras are working correctly.

## 6. MAINTENANCE

---

To prolong the life of your new screen and maintain optimal performance:

- **Screen Protector:** Consider applying a high-quality screen protector to guard against scratches and minor impacts.
- **Cleaning:** Clean the screen with a soft, lint-free cloth, preferably microfiber. Use a screen-specific cleaning solution if necessary, applying it to the cloth, not directly to the screen.
- **Avoid Drops:** Protect your phone from drops and impacts, which can damage the screen and internal components.
- **Temperature Extremes:** Avoid exposing your device to extreme temperatures, as this can affect screen performance and battery life.

## 7. TROUBLESHOOTING

---

If you encounter issues after installation, refer to the following common problems and solutions:

- **Screen Not Turning On:**
  - Ensure the battery is charged.
  - Check all flex cable connections to the logic board; ensure they are securely seated.
  - Verify the battery is properly connected.
- **Touch Not Responding or Intermittent:**
  - Check the digitizer flex cable connection.
  - Restart the phone.
  - Ensure there is no debris or liquid on the screen surface.
- **Display Issues (Lines, Spots, Discoloration):**
  - Check the display flex cable connection.
  - Restart the phone.
  - If the issue persists, the screen itself may be faulty or damaged during installation.
- **Fingerprint Sensor Not Working:**
  - Ensure the fingerprint sensor module (if separate) is correctly transferred and connected.

- Delete old fingerprints and re-register them after screen replacement.

If these steps do not resolve the issue, it is recommended to consult a professional repair technician or contact customer support.

## **8. WARRANTY AND SUPPORT**

---

This MALOOS screen replacement product is typically covered by a return policy that allows for refunds or replacements within 30 days of purchase, provided the item is returned in its original condition and packaging. Please refer to your purchase documentation or the retailer's website for specific warranty terms and conditions.

For technical assistance or further inquiries, please contact MALOOS customer support through the platform where you purchased the product.