

Not applicable





Main Function

Item	Description
os	Android V5.1 (Lollipop)
RF	
Battery	4000mAh
Base Band	1.3GHz Quad
Other RF	GPS, Glonass BT4.0, USB 2.0, WIFI 802.11 b/g/n SISO
Camera	5MP AF (Main). 2M FF(Front)
LCD	7.0" WXGA LCD, 1280X800
RAM	1.5GB LPDDR3 RAM + 8GB eMMC
Sensor	Accelerometer , Grip
Accessory	Charger: 5V, 1A
	Headset (Option)

9. Reference Abbreviate



Reference Abbreviate

— AAC: Advanced Audio Coding.— AVC: Advanced Video Coding.

— BER : Bit Error Rate

- BPSK: Binary Phase Shift Keying

- CA : Conditional Access

- CDM: Code Division Multiplexing

- C/I: Carrier to Interference

- DMB: Digital Multimedia Broadcasting

EN: European StandardES: Elementary Stream

- ETSI: European Telecommunications Standards Institute

- MPEG: Moving Picture Experts Group

- PN: Pseudo-random Noise

- PS: Pilot Symbol

- QPSK: Quadrature Phase Shift Keying

RS : Reed-SolomonSI : Service Information

- TDM: Time Division Multiplexing

- TS: Transport Stream

1. Safety Precautions



1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected. Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.

1. Safety Precautions



1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.

6-1. S/W installation

6-1-1. Required items in order to install S/W

- Installation program: Downloader Program (Odin3 v3.09.exe)
- Mobile Phone
- Data Cable
- · Mobile device specific S/W: Binary files

X Settings



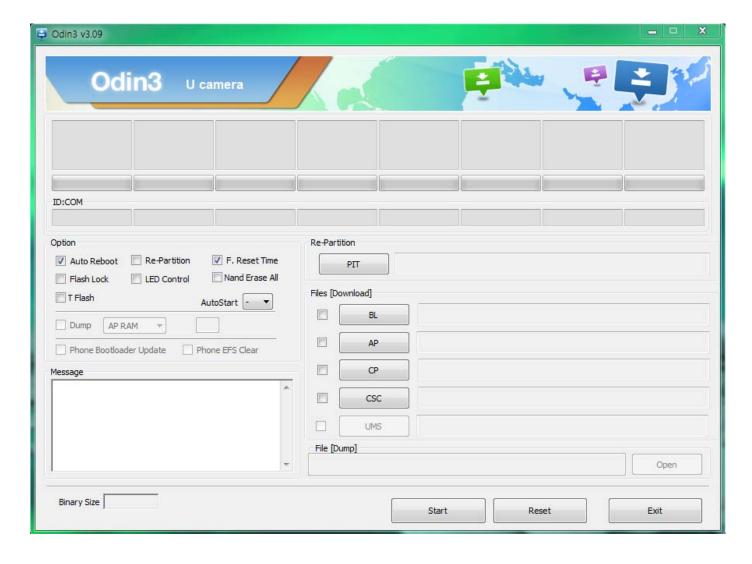


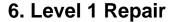
Data Cable: GH39-01710D





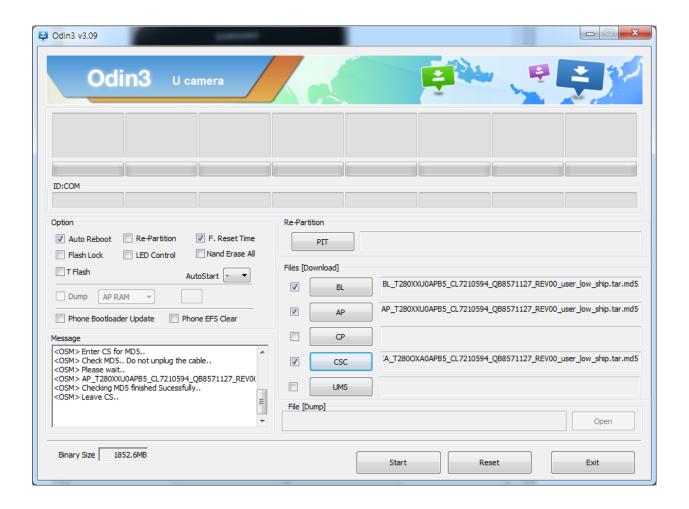
- 6-1-2. S/W Installation Program (Downloader program)
 - Open up the S/W Installation Program by executing the "Odin3 v3.09.exe"







- 1. Enable the check mark by click on the following options,
 - Check Auto Reboot, Re-Partition, and F. Reset Time
 - Check PIT
 - Check BOOTLOADER, PDA, and CSC Files
 - * Note: "Odin v3.09 or above" checks MD5 checksum just after file selection.

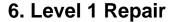


6. Level 1 Repair



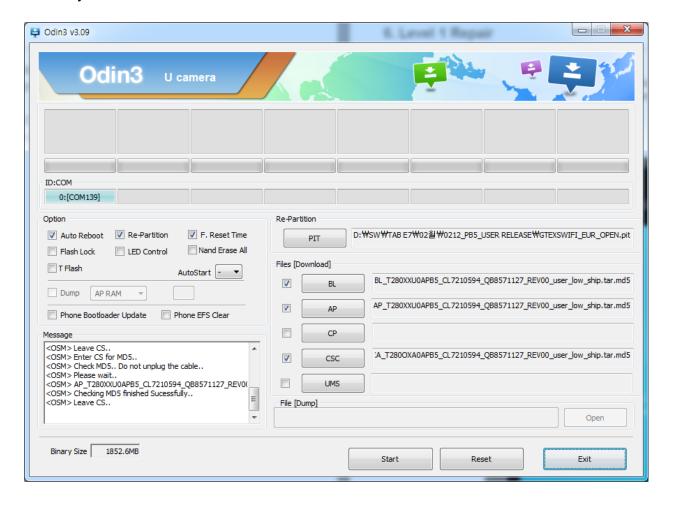
- 2. Enter into Download Mode
 - Enter into Download Mode by pressing Volume Down button, Home button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.







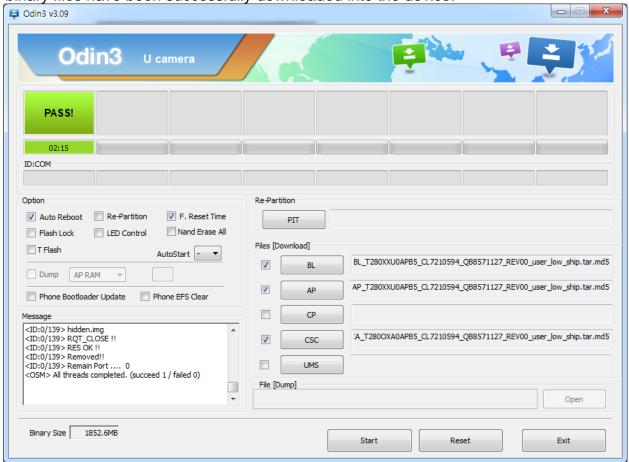
Connect the device to PC via Data Cable.
 Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue. The device is now connected with the PC and ready to download the binary files in it.







4. Start downloading the binary files into the device by clicking Start button on the screen. The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.



- **5.** Disconnect the device from the Data cable.
- 6. Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence; The first, Please write (+30012012732+ on calculator and then *#1234#

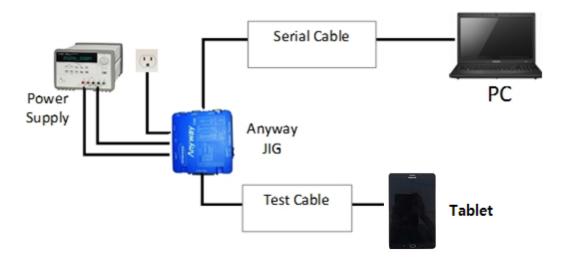
You can perform Factory Reset by Settings → Accounts → Backup and reset



6-2 IMEI writing

6-2-1 Preparation

- New IMEI writing Program has been released.
- Supported Model : Models which CAB files are uploaded on HHPsvc INI File category, instead of ini file.
- Refer to below IMEI writing procedure.
 - H/W



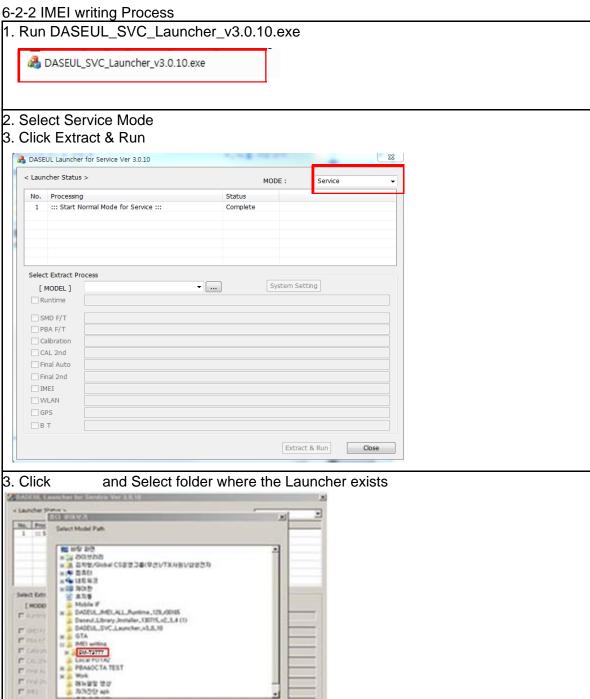
- S/W

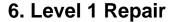
-	
① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin "(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0"
2Launcher	DASEUL_SVC_Launcher_v3_0_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	DASEUL_Runtime_Ver_3.1.139.0.CAB or higher -Uploaded on HHPsvc Notice Make 'ModelName' folder at the same position with launcher & Runtime file.
4 Model File	Copy Model File under the 'Model Name' folder





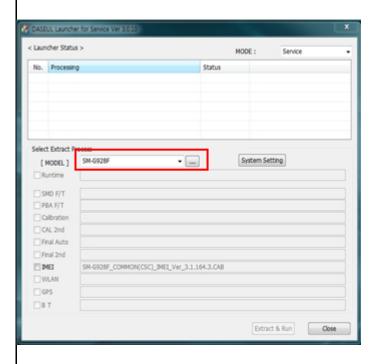
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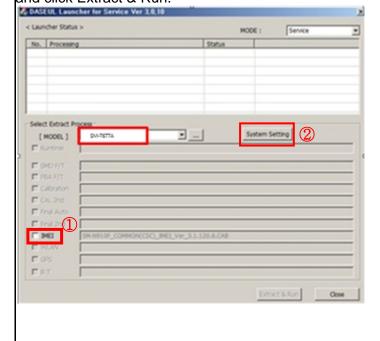


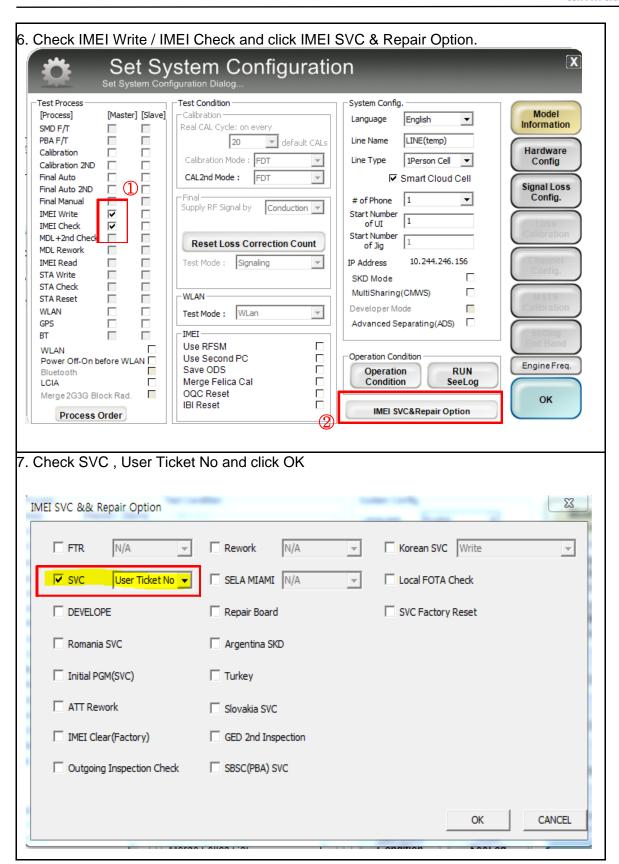


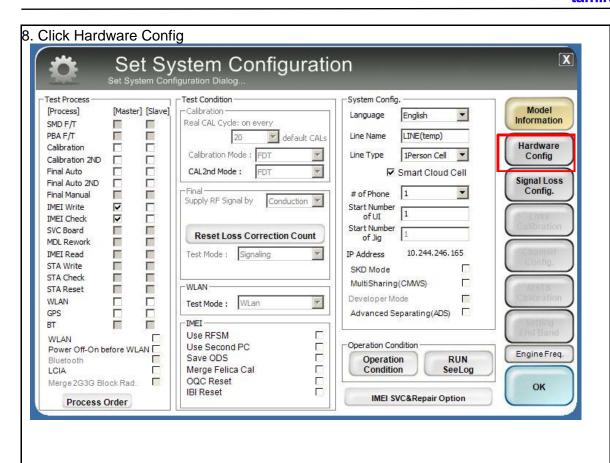
4. Select Model

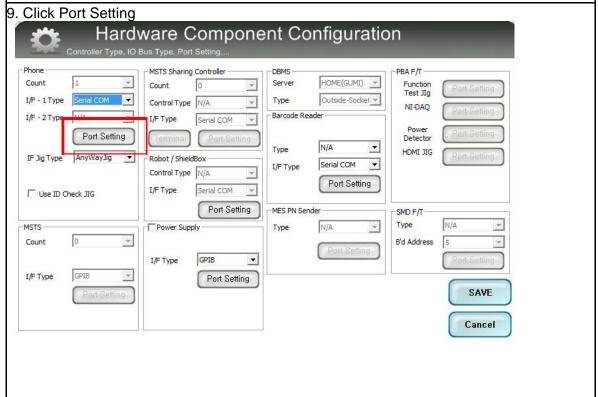


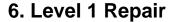
- Check IMEI and click System Setting
- ※Once you setup the setting, you don t have to
 do it again, unless there is change. From second run of the IMEI program, check IMEI
 and click Extract & Run.



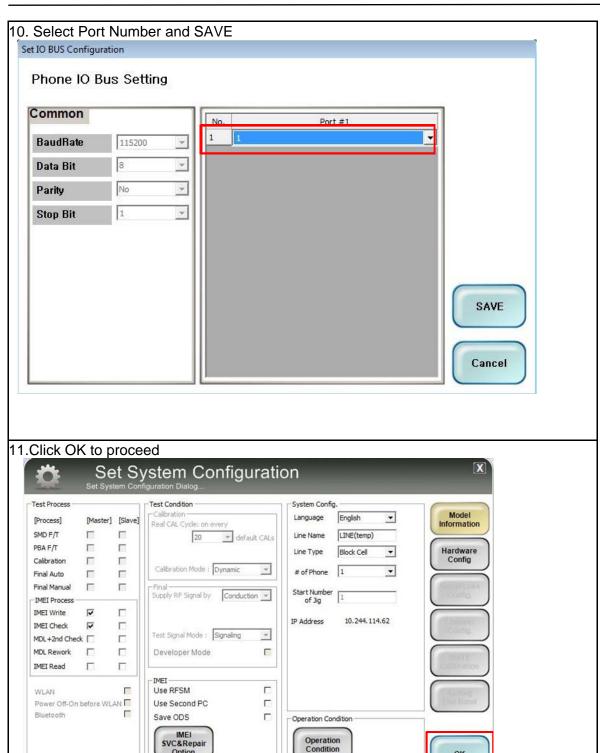


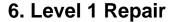




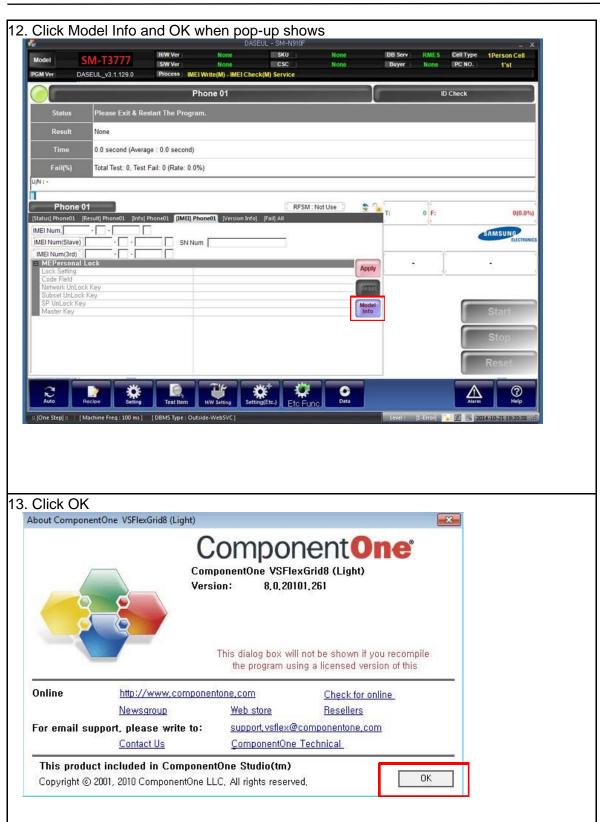


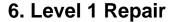




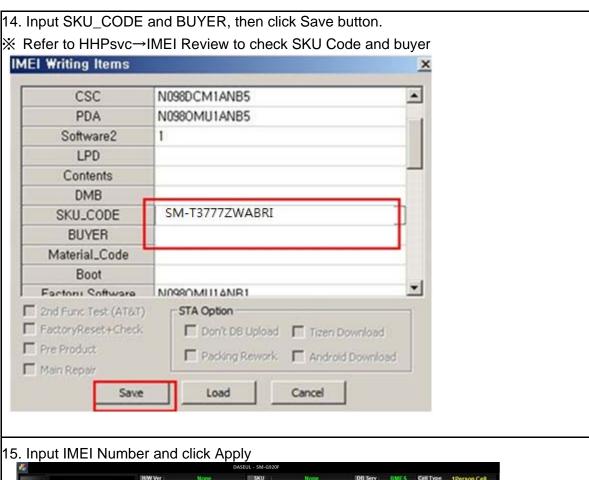


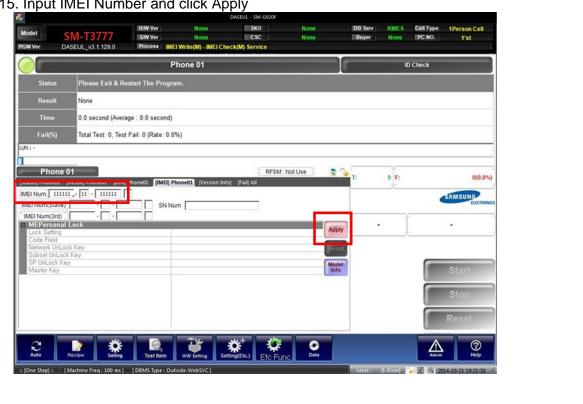




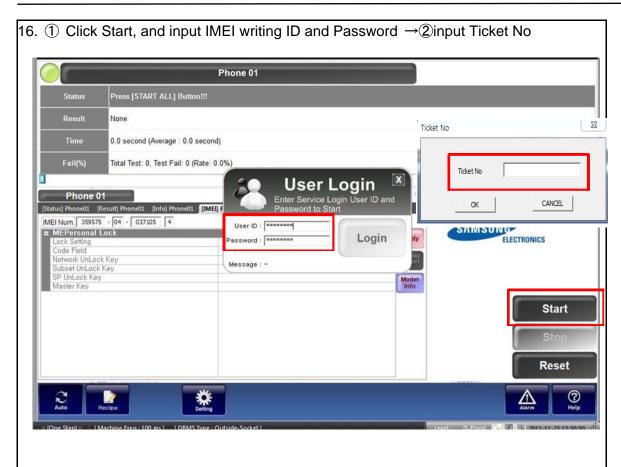












- 17. Connect the phone to Anyway JIG
- ※ When you connect the phone, the phone should be turned off.

After connecting the phone, the phone will be booted automatically.

18. IMEI Writing Proceeding







