

# Creating a USB drive for 2012 Classmate PC Image Restoration

Some USB restoration drives shipped with a corrupted boot sector, this results in the drive not being bootable. However, the necessary restoration data on the USB drive is intact. This document describes the procedure for creating a bootable USB drive to restore the 2012 image on an E09 or E11 model Classmate computer.

Follow the steps outline below to create a new USB restoration drive. If for any reason you have questions, run into issues, or prefer to not do this procedure please contact [frcparts@usfirst.org](mailto:frcparts@usfirst.org) for assistance or a replacement USB drive for your Classmate PC.

## Prerequisites

1. E09 or E11 Classmate computer



Figure 1: E09 Classmate



Figure 2: E11 Classmate

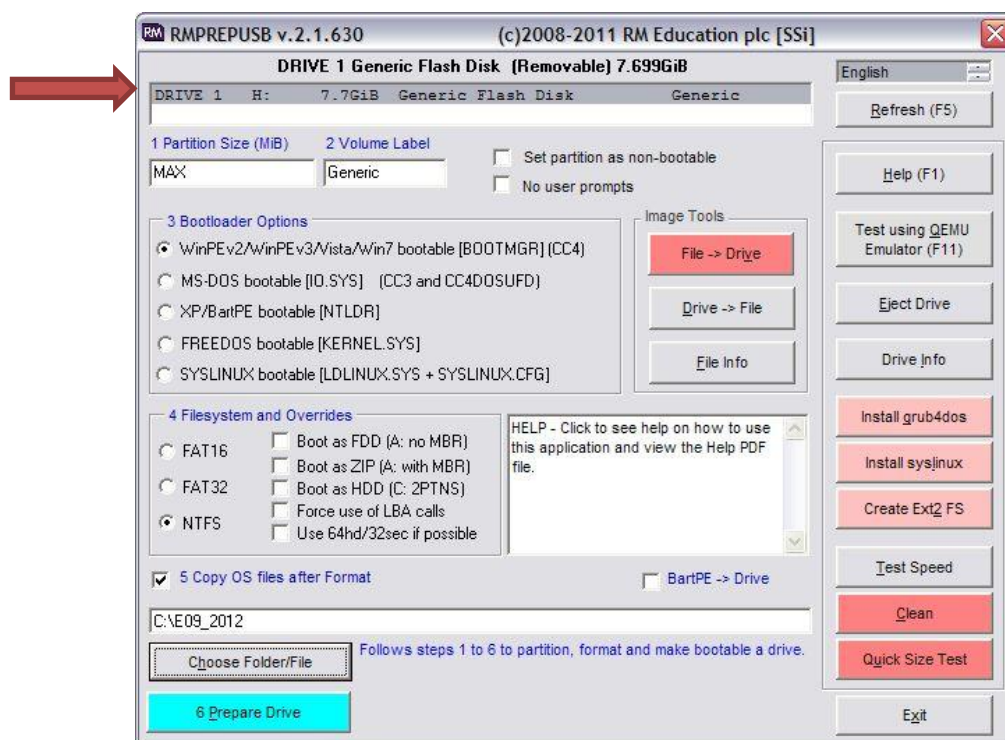
2. 8GB or larger USB drive
3. RMprepUSB software installed. [Download here](#)
  - a. Scroll down the page and select the current version's download link. As of the writing of this document, the current version is 2.1.630



4. 7-zip [Download here](#)
5. The corresponding USB restoration drive for your Classmate PC which was given out to teams with the Kit of Parts at Kickoff.

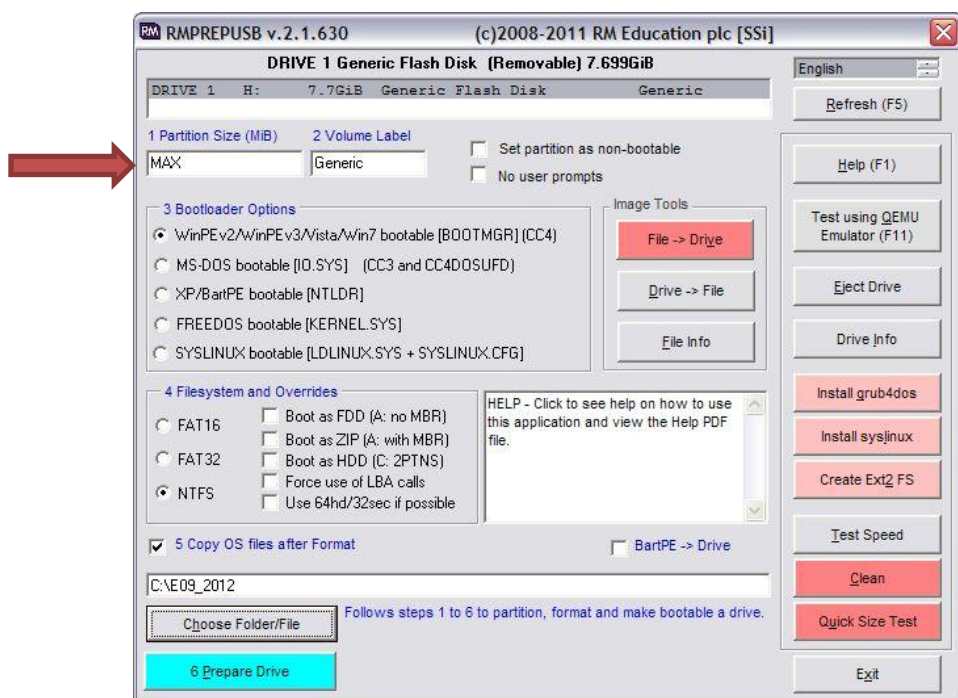
## Procedure

1. Copy all the files from the USB restoration drive received at Kickoff to a directory on the computer where RMprepUSB is installed. These steps assume the USB drive mounts as drive H: when you insert it. Replace the bolded 'H' below with the appropriate letter for the USB drive plugged into your machine.
  - a. On a Windows XP/Vista/7 machine
    - i. Open a Command Prompt (start->run->cmd.exe)
    - ii. Type the follow commands
      1. CD \
      2. MKDIR E09\_2012
      3. XCOPY /S /E H:\ C:\E09\_2012
2. Connect 8GB or larger USB drive to the PC to use as the new restoration drive
  - a. **NOTE: While it is possible to use the same USB restoration drive from Step 1, a second drive is recommended**
  - b. If you are using a separate USB drive, safely remove the KOP restoration drive from your PC now.
3. Start/Run RMprepUSB
4. Configure RMprepUSB
  - a. Select USB Drive

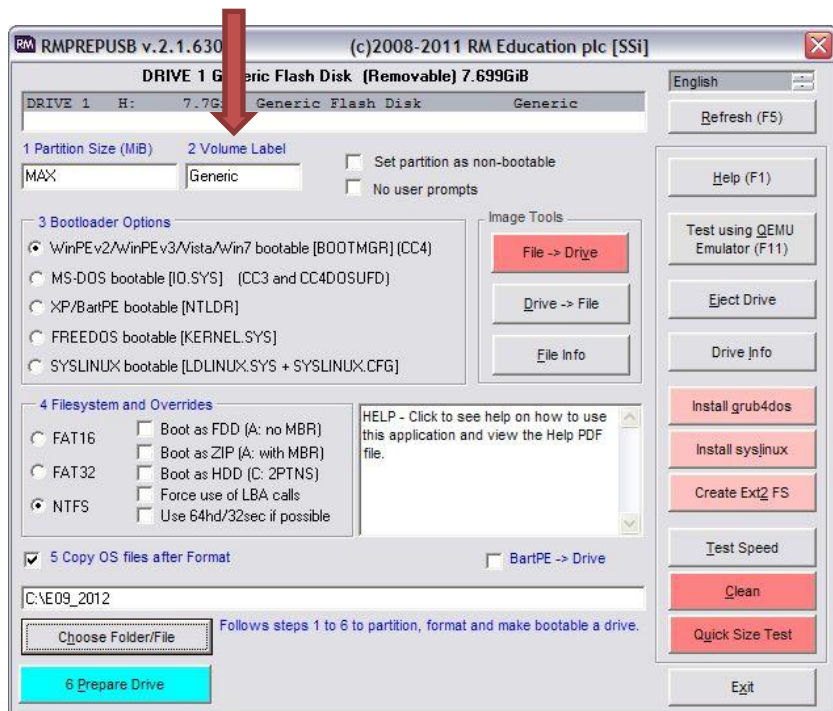


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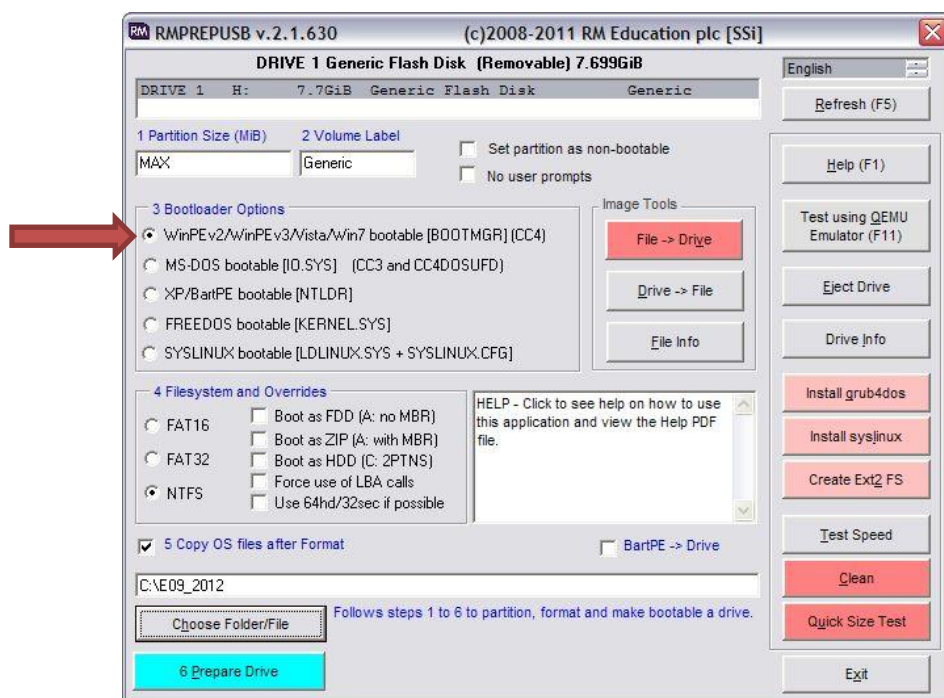
### b. Set Partition Size to MAX



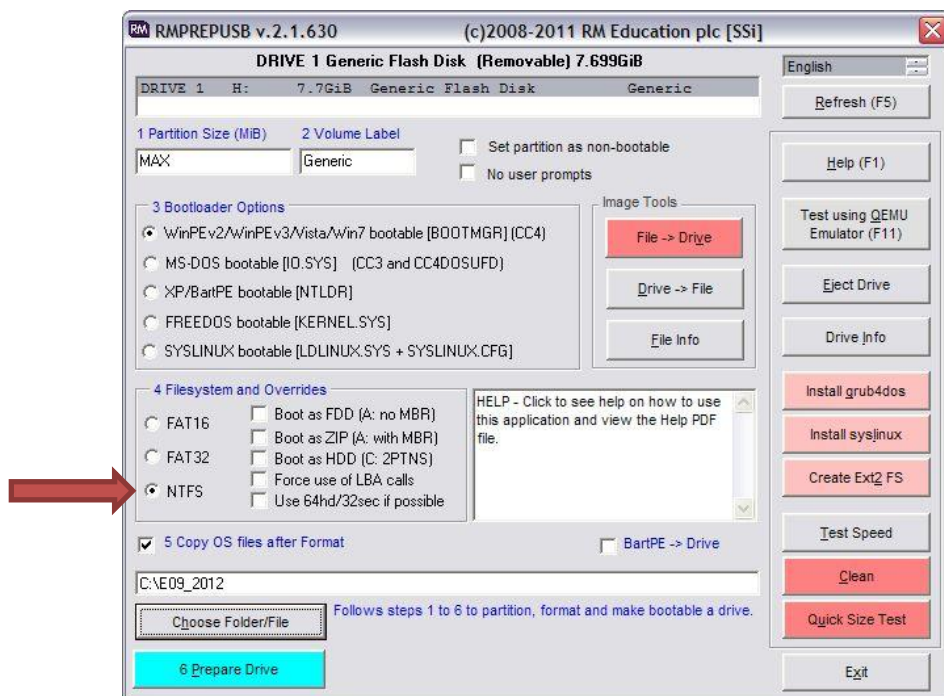
### c. Set Volume Label to Generic



- d. Select Bootloader Option “WinPE v2/WinPE v3/Vista/Win7 bootable”

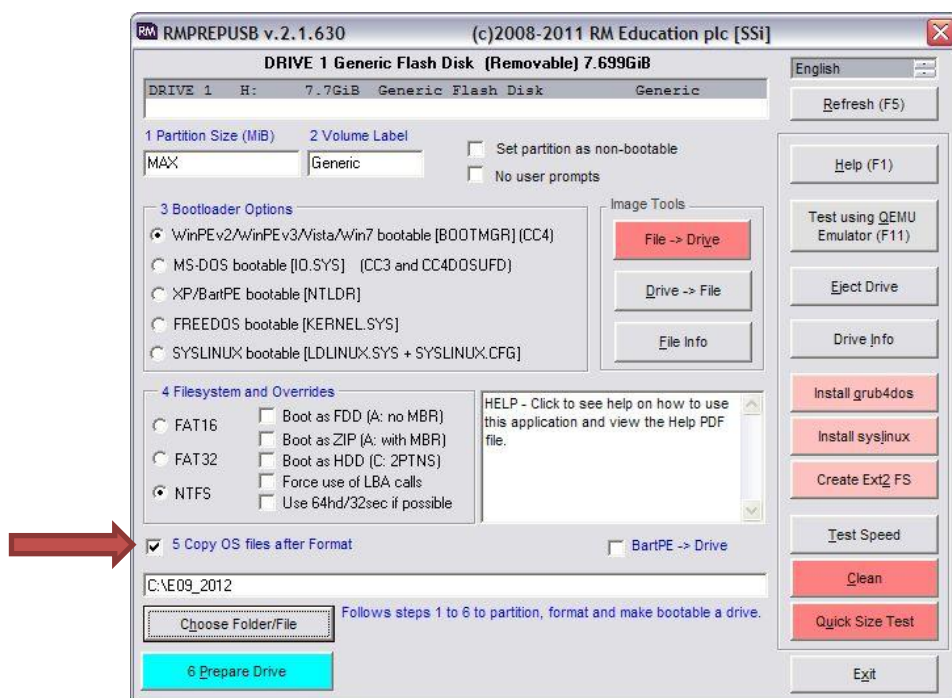


- e. Select NTFS Filesystem

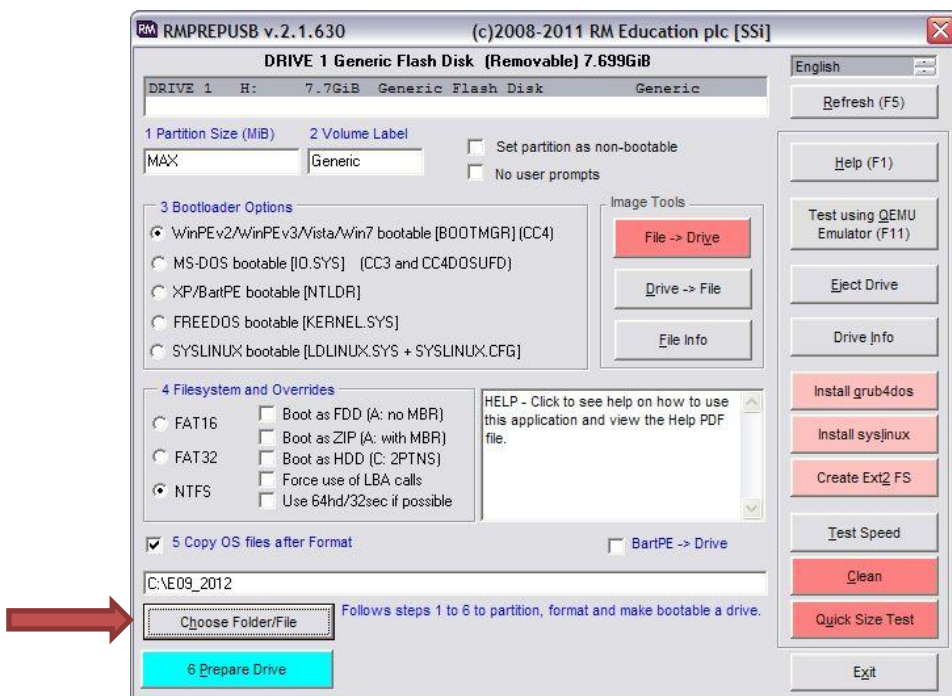




- f. Ensure the “Copy OS files after Format” box is checked

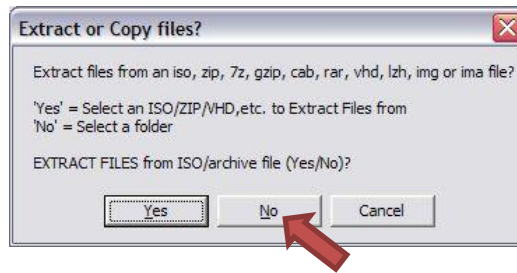


- g. Select “Choose Folder/File”

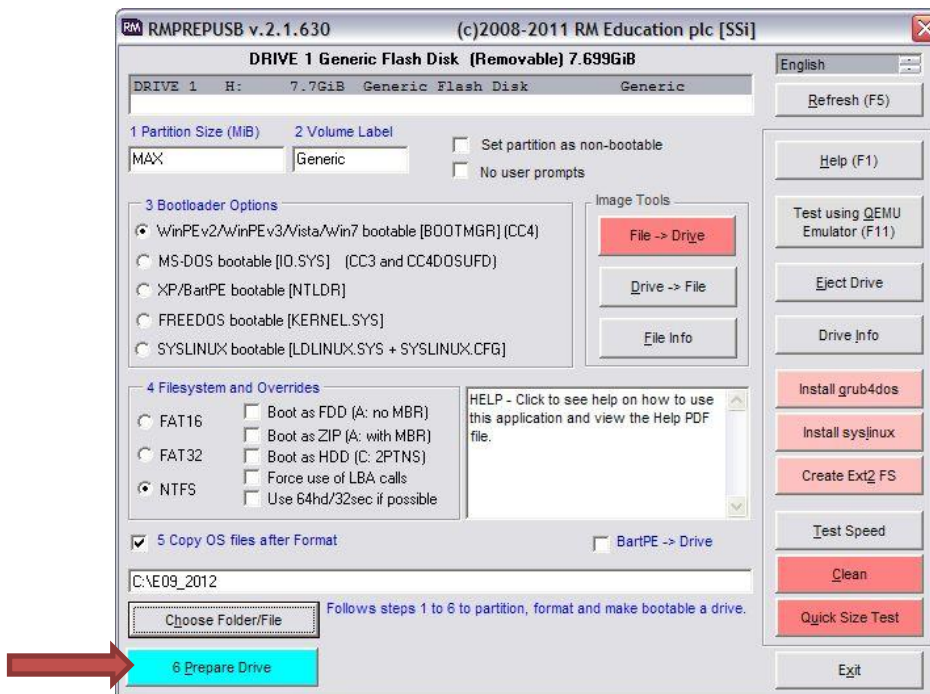


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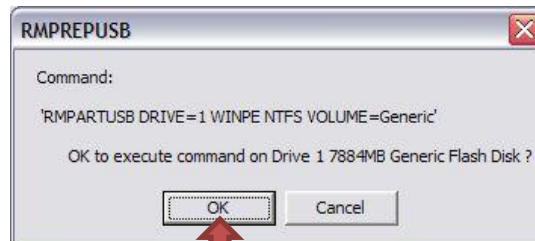
- h. Choose “No” and select the E09\_2012 folder



5. All configuration settings are now complete. Select “Prepare Drive” to begin the process.

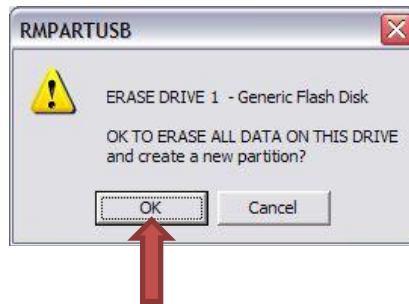


6. Click “OK” to execute the command to on the selected USB drive. A Command Prompt will open showing the progress.



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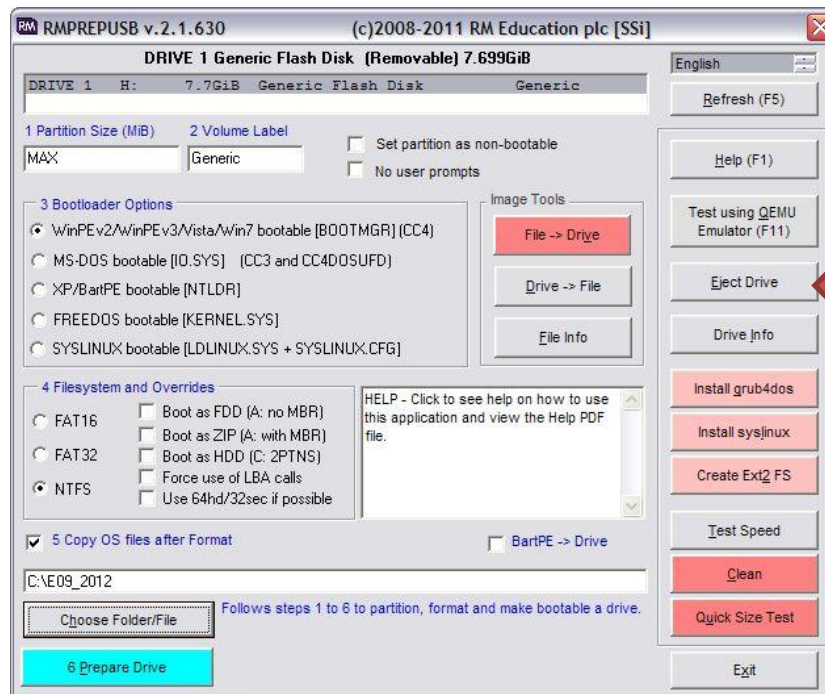
- Click “OK” to format the USB drive. **NOTE: ALL DATA ON THE DRIVE WILL BE ERASED!**



- Once formatting is complete, the restoration files will be copied to the USB drive. This process should take ~10-15 minutes when connected to a USB 2.0 port.
- When all files have been copied, this message will appear



- Press the “Eject Drive” button to safely remove the USB drive. The USB drive is now ready to be used to restore the image onto the Classmate PC.



- Refer to the [Getting Started with the Control System](#) document for instructions on reimaging the Classmate PC and installing the Driver Station software.