LMA Series

LINKABLE MONO AMPLIFIERS

LMA101 / LMA201/ LMA401

FIRMWARE UPDATE GUIDE

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com

LMA Series

LINKABLE MONO AMPLIFIERS
LMA101 / LMA201 / LMA401

FIRMWARE UPDATE GUIDE

INTRODUCTION

Updated firmware is downloaded from the AtlasIED website and copied to a USB thumb drive formatted with the FAT32 file system.

The firmware is uploaded to the LMA amplifier by inserting the USB drive into the Maintenance port on the rear panel.

SUMMARY OF STEPS

1. Identify the Host Firmware Version Loaded on the LMA Amplifier
2. Verify the USB Drive Uses the FAT32 Format
3. Download the Firmware Files from the AtlasIED Website
4. Extract the LMA Firmware Files
5. Upload the LMA Host Firmware
6. Update the Firmware Label on the Chassis
7. Verify USB Drive Properties
8. Reformat USB Drive to FAT32 (If Needed)

LMA Series
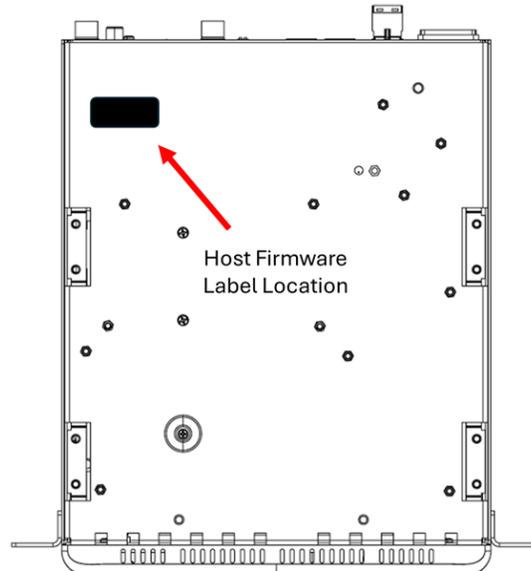## LINKABLE MONO AMPLIFIERS
LMA101 / LMA201 / LMA401

FIRMWARE UPDATE GUIDE

STEP 1 - IDENTIFY THE HOST FIRMWARE LOADED ON THE LMA AMPLIFIER

The Host firmware revision loaded onto the LMA amplifier can be identified by the label located on the bottom of the amplifier as shown in the picture. Compare this to the firmware the version listed on AtlasIED web page under the **Support** tab for that model.
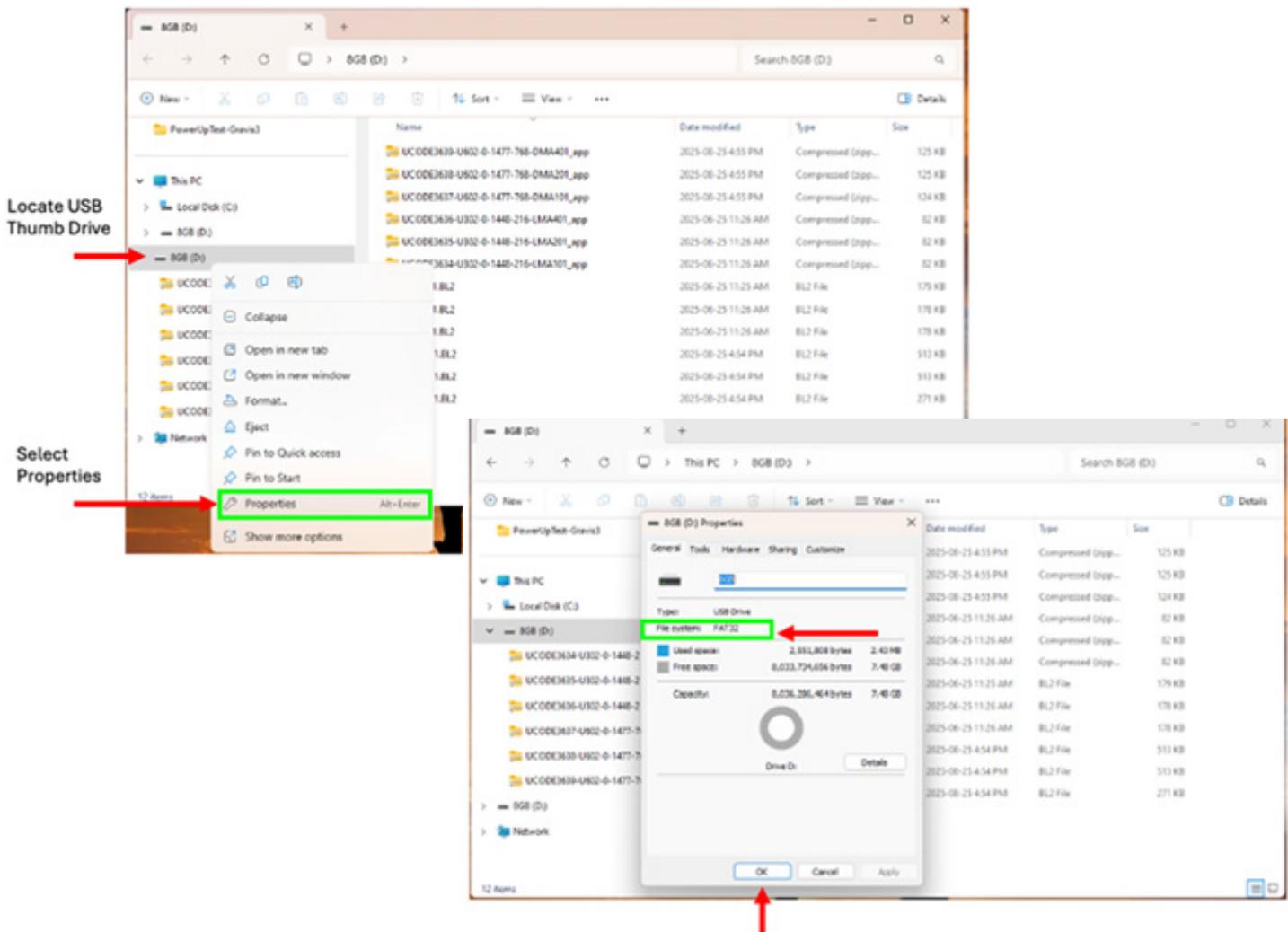

Host Firmware
Label Location

STEP 2 - VERIFY THE USB DRIVE USES THE FAT32 FORMAT

It is critical that the USB drive selected is formatted to the FAT32 file system. **Note:** Most USB drives with a storage capacity equal to- or less than 32 GB are preconfigured with the FAT32 file system. Memory drives with a capacity greater than 32 GB are not. **Note:** If a USB drive is NOT formatted to FAT32, it cannot be used to update LMA firmware.

To determine whether a USB is configured with the FAT32 file system, do the following.

A. Insert the USB drive into a USB port on a PC.
B In the navigation pane, locate and then right-click the USB drive.
C. Click **Properties**.
D. Verify that the USB drive is formatted to FAT32. If it is, continue to Step 3. If it is not, the USB drive can be formatted to the FAT32 system. Refer to the topic
  Reformat USB Drive to FAT32 (If Needed) in this guide.

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com

STEP 3 - DOWNLOAD THE FIRMWARE FILES FROM THE ATLASIED WEBSITE

To download an updated firmware file from the AtlasIED website, do the following.

A. Navigate to https://www.atlasied.com.

B. In the search box, type the model name of the amplifier (e.g., LMA401).

C. Click to expand the **Support** tab for that model.

   Note: Firmware update files are contained within a .zip file using the following naming convention.

- LMA101 HOST Firmware v324.zip
- LMA101 HOST Firmware v324.zip
- LMA401 HOST Firmware v324.zip

D. Copy the relevant file to the USB drive.

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com

STEP 4 - EXTRACT THE LMA FIRMWARE FILES

To extract the LMA firmware files, do the following.

A. Unzip the file contents to a root directory (top-level directory) on the USB drive as shown below.

   Note: There will be two files for each model. Valid unzipped firmware files follow the naming convention below.
   - LMA101.BL2
   - LMA101IP.BL2

B. Click to open the sub folder.
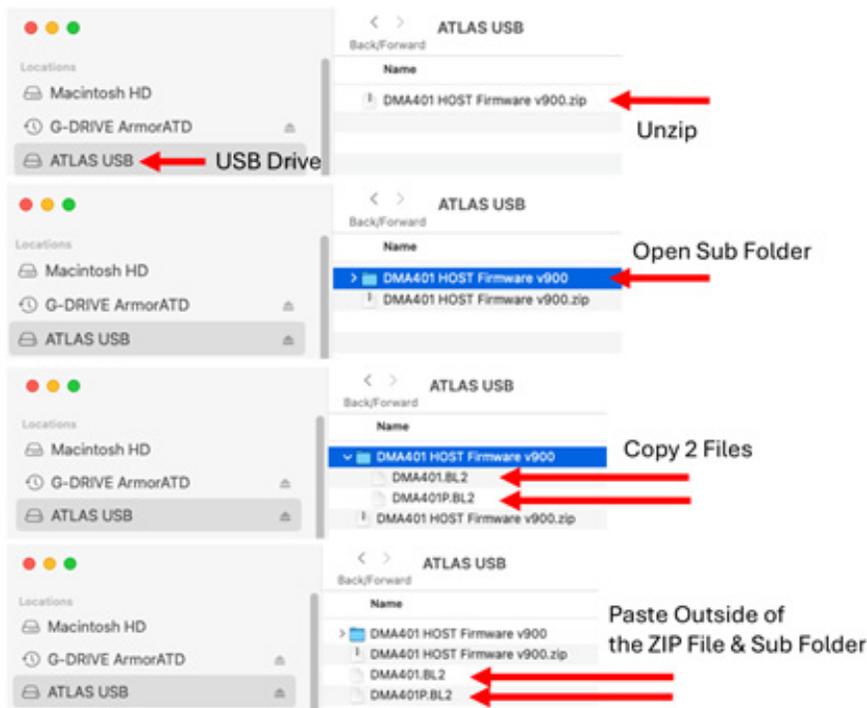
C. Copy both files.

D. Paste the copied files outside the .zip folder and sub folder.

   Note: The LMA will not recognize the firmware files unless they are extracted from the sub folder.

E. Verify that the firmware version copied to the USB drive matches the LMA model being updated. For example, if a LMA101 amplifier is the target for the firmware update, LMA101.BL2 and LMA101IP. BL2 files should be on the USB drive.

   Note: It is acceptable for all .BL2 files to be stored on the same USB drive. The LMA amplifier will select the correct version.

E. Close and properly eject the USB drive from the computer.

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com

FIRMWARE UPDATE GUIDE

STEP 5 - UPLOAD THE LMA HOST FIRMWARE

To upload the host firmware to the amplifier, follow the steps below.

A. Power down the unit by removing the AC mains cord. Wait for 1 minute even if the LMA front panel power LED is no longer illuminated.

Note: The power supply must be fully discharged before the files can upload from the USB drive.
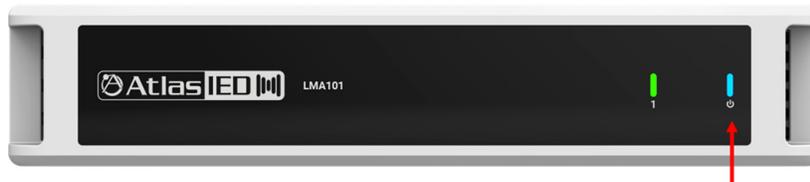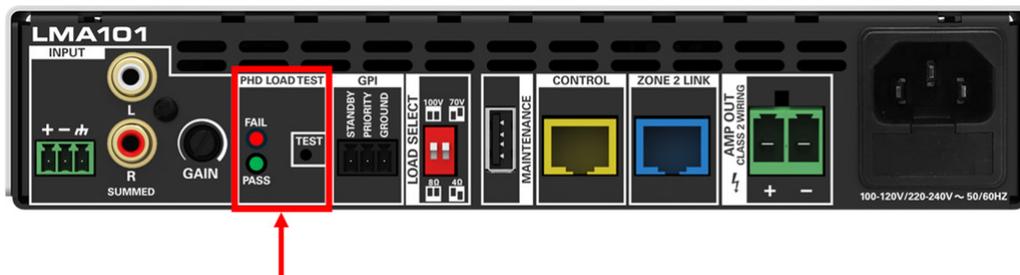

B. Insert the USB drive into the amplifier's Maintenance port located on the rear panel.
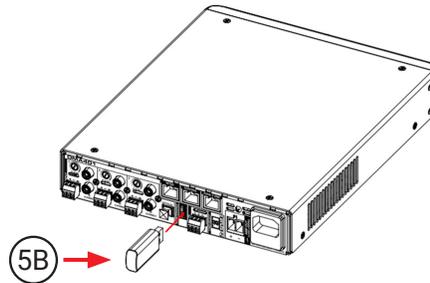
C. Power up the amplifier by connecting the AC mains power cord to the amplifier.

Note: The firmware update will start automatically.

D. Both the Red and Green LEDs in the PHD Load Test section of the rear panel will flash to indicate the firmware update status.

Note: The PHD Load Test LEDs flash 6 times during a normal boot-up. During the firmware update process, the PHD LEDs will flash 6 times, followed by a slight pause. The LEDs will then flash 6 more times for a total of 12 flashes.

E. Verify the firmware was updated properly by doing the following.

1. The LEDs will flash 2 times if the version programmed matches the file on the USB drive, indicating the firmware update was successful.

2. Remove the USB drive from the Maintenance port. The amplifier is ready for use.

LMA Series
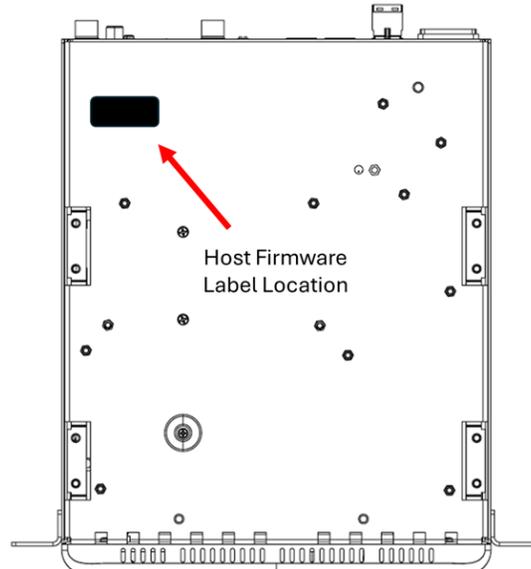
LINKABLE MONO AMPLIFIERS

LMA101 / LMA201 / LMA401

FIRMWARE UPDATE GUIDE

STEP 6 - UPDATE THE FIRMWARE LABEL ON THE CHASSIS

After updating the firmware, it is important to update the firmware label located on the bottom side of the chassis.

Host Firmware
Label Location

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com

LMA Series
LINKABLE MONO AMPLIFIERS
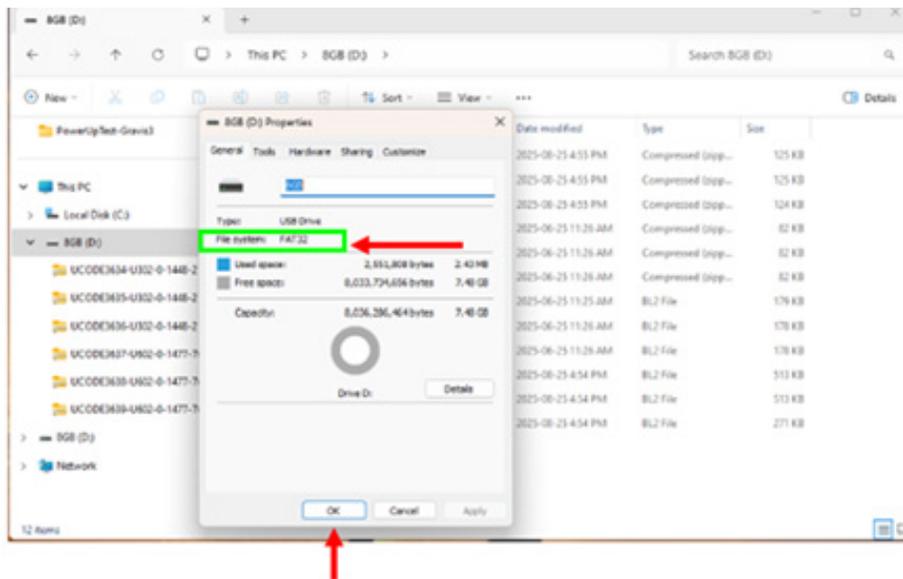LMA101 / LMA201 / LMA401

FIRMWARE UPDATE GUIDE

STEP 7 - VERIFY USB DRIVE PROPERTIES

To verify that a USB drive is formatted for FAT32 file system, do the following.

A. Insert the USB drive into a USB port on a PC and open the file viewer.

B. Right-click the USB drive in the file viewer and select **Properties** as shown below.
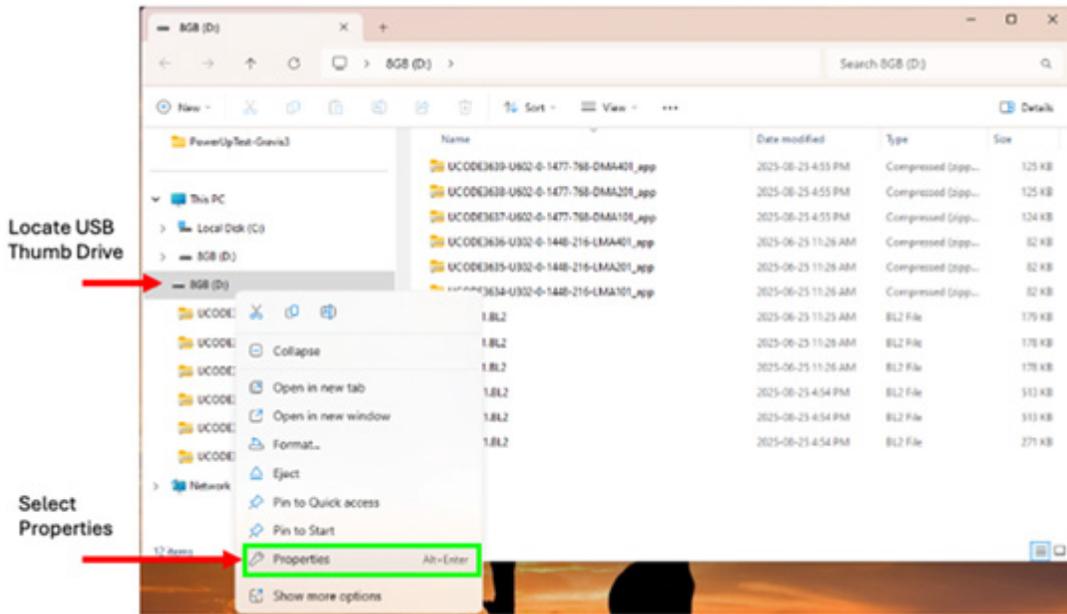
C. Verify the file system is FAT32.If it is not, follow the instructions in Step 8. **Note:** All contents on the drive will be lost after reformatting.

AtlasIED

1601 JACK MCKAY BLVD.
ENNIS, TEXAS 75119 U.S.A.

TELEPHONE: (800) 876-3333
SUPPORT@ATLASIED.COM

AtlasIED.com
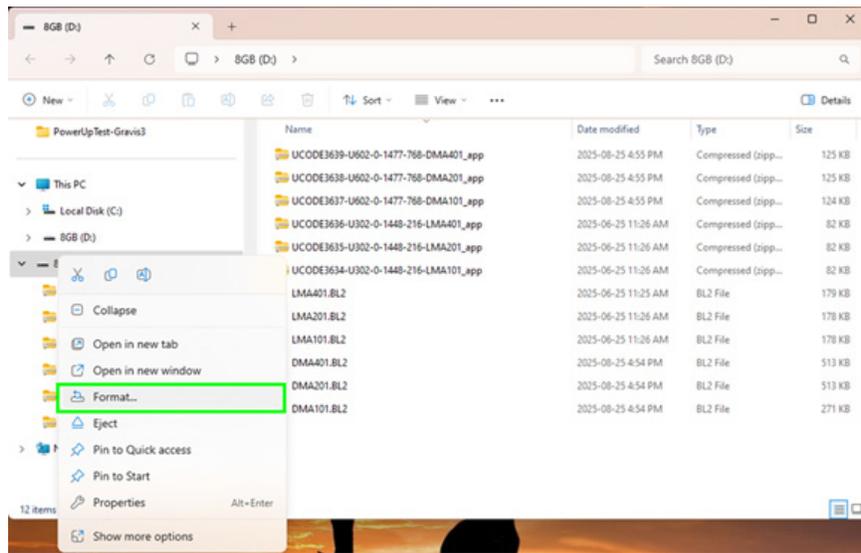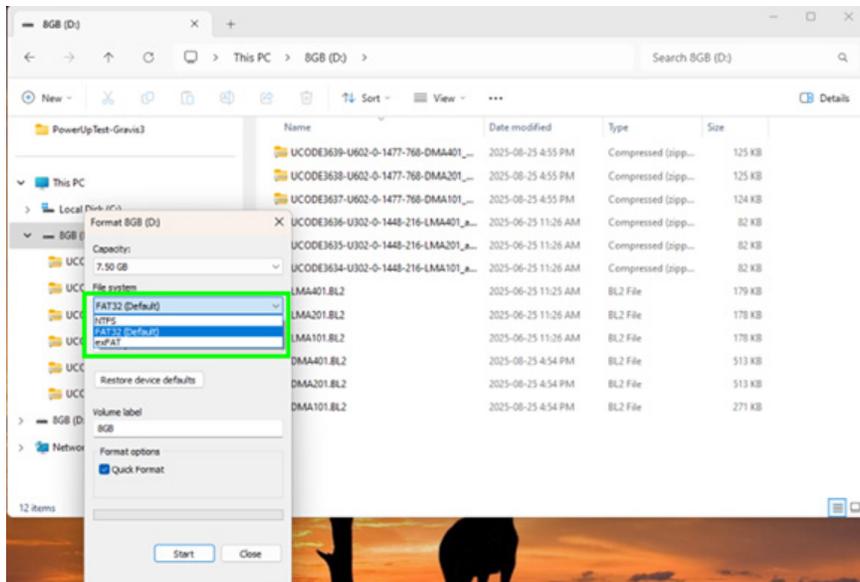
STEP 8 - Reformat USB Drive to FAT32 (If Needed)

This step contains instructions for reformatting a USB drive to the FAT32 file system. **Note:** All contents on the drive will be lost after reformatting.

A. Insert thumb drive into PC USB port and open the file explorer.

B. Right-click the USB drive in the navigation pane and select **Format** as shown below.

C. Select **FAT32** from the drop-down list.

D. Click **Start**.