# SOFTWARE UPDATE PROCEDURES

1) Connect the AC power cable to the AC IN connector.

2) Press the MR16 power switch.

3) Press the [MENU/ENTER] dial to enter the MENU mode.

4) Rotate the [MENU/ENTER] dial and select the "USB" menu.

5) Press the [MENU/ENTER] dial.

6) Rotate the [MENU/ENTER] dial and select the "Disk Protect" menu.

7) Press the [MENU/ENTER] dial and set "Disk Protect" to "Off" by rotating the [MENU/ENTER] dial. Then, press the [MENU/ENTER] dial. With this setting, the Disk Protect mode is turned off indicating the condition that the software update file can be copied to the MR16 internal HDD.

8) Rotate the [MENU/ENTER] dial to select the "< < Back" menu and press the [MENU/ENTER] dial.

9) Rotate the [MENU/ENTER] dial and select the "USB Device Mode" menu.

10) Press the [MENU/ENTER] dial. If MR16 is correctly put into the USB mode, the display on the right will appear on the LCD. Now MR16 is ready to connect to PC or Macintosh.

11) Connect the USB cable from the MR16 USB port to PC on which Windows XP/2000 is running or Macintosh on which OS X is running.
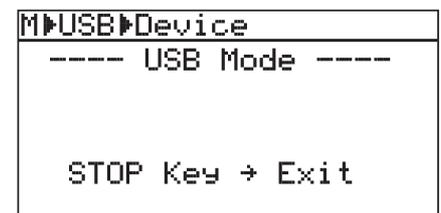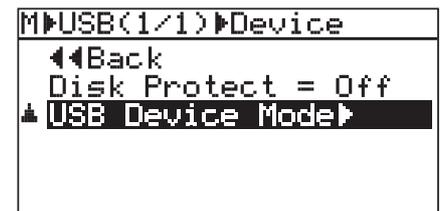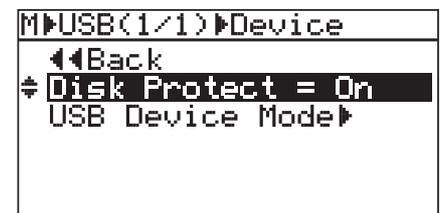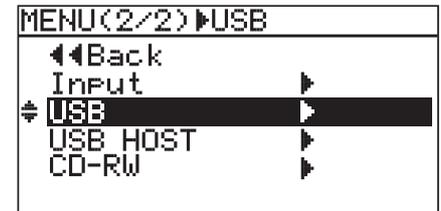
CAUTION: MR16 can be connected to PC on which Windows XP/2000 is running or Macintosh on which OS X is running for software update as well as audio data transfer. Of course PC/Macintosh has to be equipped with a USB port.

USB port

USB port
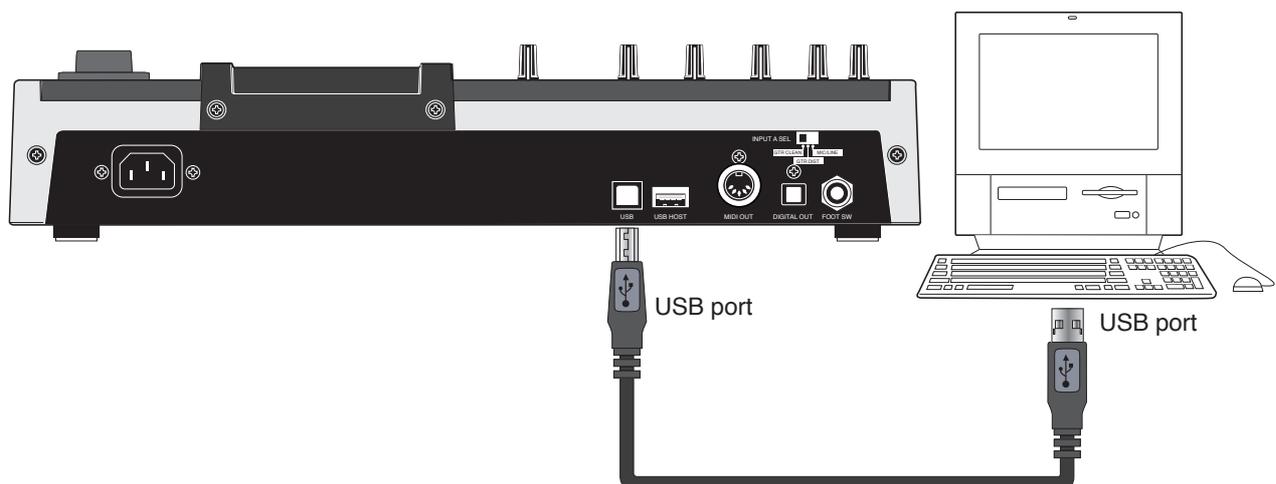
12) PC or Macintosh recognizes MR16 as an external removable disk.
 (a) Windows XP/2000

The example on the right indicates that MR16 is recognized as a removable disk (E) in the My Computer on Windows XP PC. Unzip the software update file with "zip" extension (e.g. MR16_V102.zip) normally sent together with a technical bulletin. If you do so, a software update file (e.g. MR16V102.MOT) will be created. Place a newly created software update file with "MOT" (motorola format) extension in the root directory tree of the Removable disk (E).
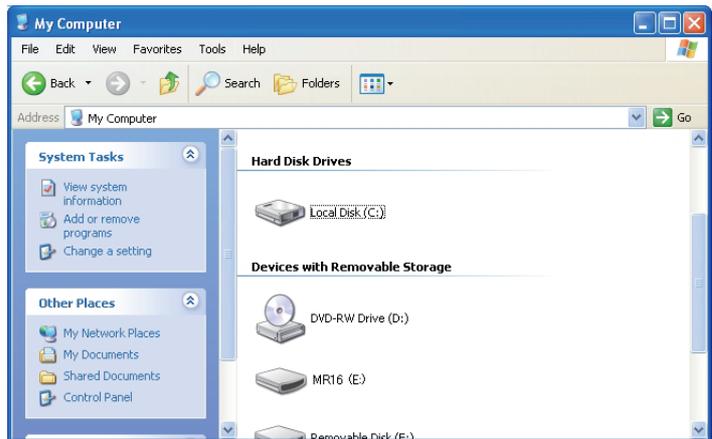
By double-clicking the removable drive (E) (MR16), the window on the right will appear. You can see that the software update file (MR16V102.MOT) is placed in the top directory tree of the Removable Disk (E).
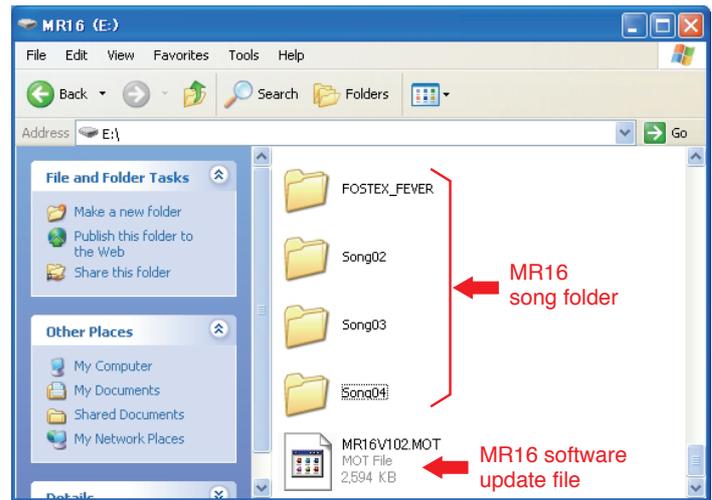
Continue to the next page.

After transferring the software update file is completed, **do not tun off the USB connection by pressing the MR16 STOP key. First, you need to safely remove the MR16 from PC side by opening the "Safety Removable Hardware" in the tool bar and pressing the "Stop" button on Windows XP/2000 PC.** Then, you can turn off the USB connection from the MR16 side.

Press this STOP butten befor turning off the MR16 USB mode by pressing the STOP key.

Press this OK butten befor turning off the MR16 USB mode by pressing the OK key.
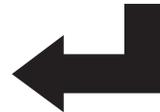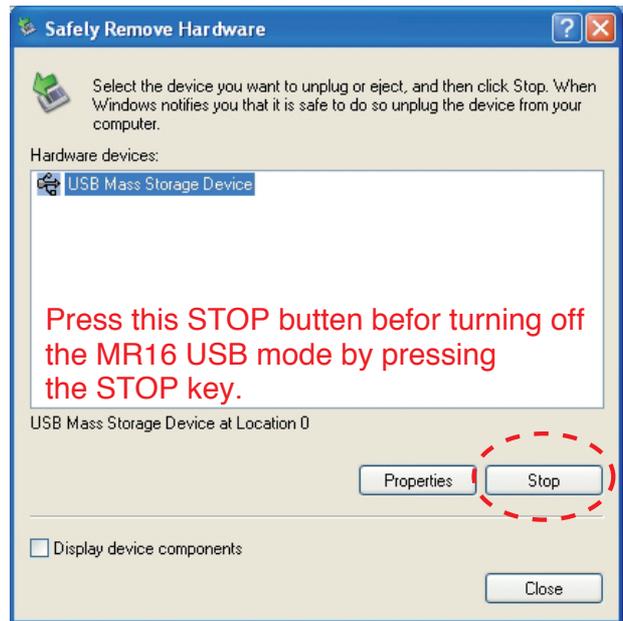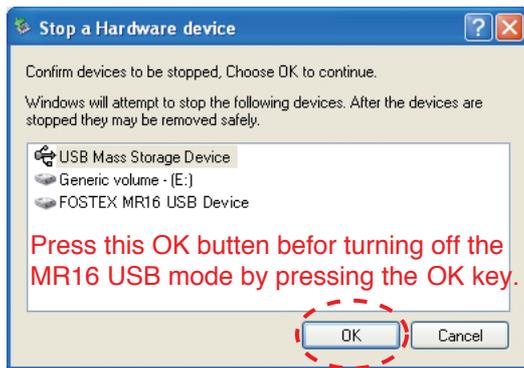
(b) Macintosh OS X

MR16 is recognized as "MR16" on the Macintosh OS X desktop. By double-clicking the MR16 icon, the window on the right will appear. There are five song folders and one software update file "MR16V101. MOT".
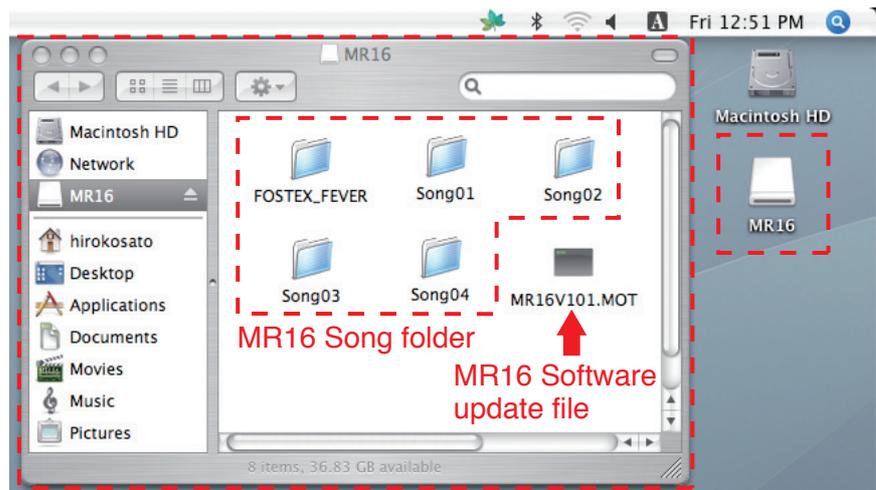
MR16 Song folder

MR16 Software update file

Unzip the software update file with "zip" extension (e.g. MR16_V102.zip) normally sent together with a technical bulletin.

Copy and paste a newly created software file with "MOT" (motorola format) extension (e.g. MR16V102.MOT) onto a root directory of MR16 HDD connected to Macintosh (OS X).
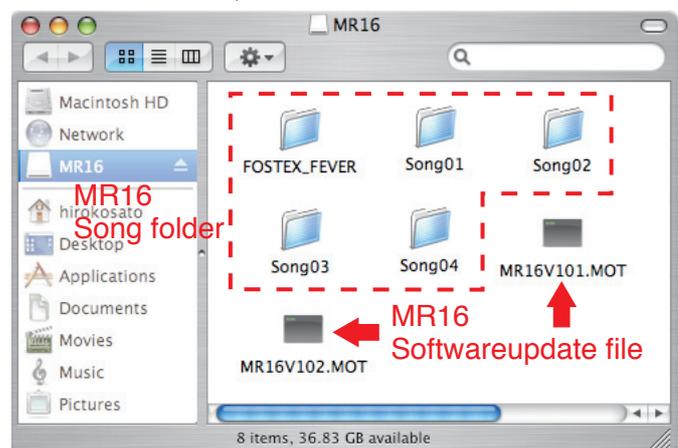
MR16 Song folder

MR16 Softwareupdate file

After transferring the software update file is completed, **do not tun off the USB connection by pressing the MR16 STOP key. First, as shown on the right, you need to press the EJECT button on Macintosh.** Then, you can turn off the USB connection from the MR16 side.

Press the EJECT button before turning off the MR16 USB mode by pressing the STOP key.
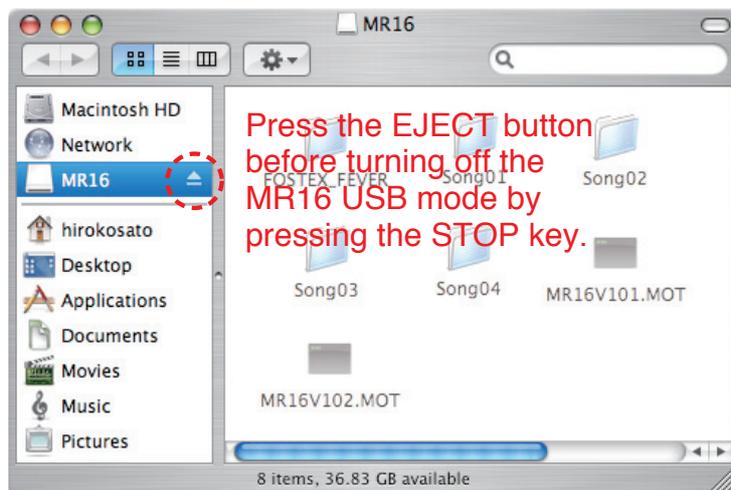
CAUTION: There is a case that it takes time for PC or Macintosh to recognize MR16 as an external device. While the "ACC" (access) indication on the upper right of the MR16 LCD is flashing in the USB mode, do not disconnect the USB cable between MR16 and PC / Macintosh.

13) Disconnect the USB cable between MR16 and PC / Macintosh.

14) On MR16 with the normal display appears, press the [MENU/ENTER] dial while holding down the [STOP] key to access the Service Mode menu.

Press the [MENU/ENTER] key.

Hold down [STOP] key.

```
MENU(2/2)▶Service
◀◀Back
 Input          ▶
 USB            ▶
 USB HOST       ▶
 CD-RW          ▶
 Service Mode   ▶
```
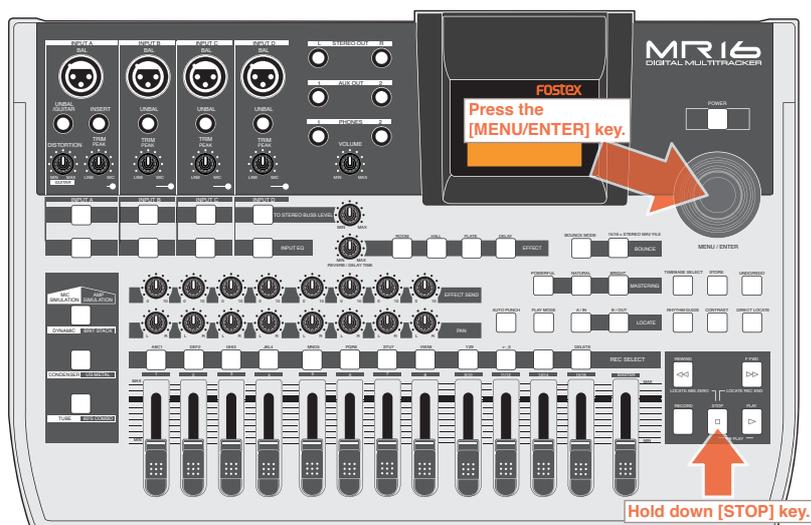
NOTE: Pressing the [MENU/ENTER] dial while holding down the [STOP] key allows to access the "Version" and "Version Up" Service menu only. To fully access all the Service menus, as mentioned on page 16, press the [MENU/ENTER] dial while holding down the [STOP] and [POWER] keys.

15) Rotate the [MENU/ENTER] dial and select the "Service Mode" menu.

16) Press the [MENU/ENTER] dial.

17) Rotate the [MENU/ENTER] dial and select the "Version Up" menu.

```
M▶Service(1/1)▶V-Up
◀◀Back
 Version▶
 Version Up▶
```
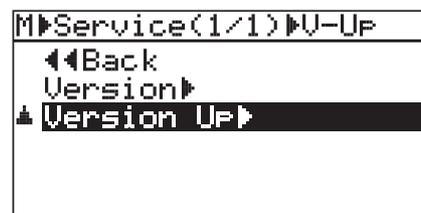
18) Press the [MENU/ENTER] dial.

19) Rotate the [MENU/ENTER] dial and select a software update file with the version number you would like to update.

   NOTE: As long as the file name is different, up to five software update files can be placed in the root directory.

20) Press the [MENU/ENTER] dial.

```
M▶Service(1/1)▶V-Up
◀◀Back
 MR16V101.MOT
 MR16V102.MOT
```
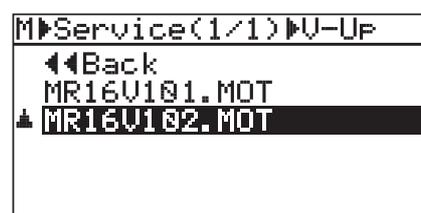
21) The selected software file is displayed together with the software version number. To go on, press the [MENU/ENTER] dial while holding down the [REC] key.

```
M▶Service▶V-Up
    -- Version Up --
 MR16V102.MOT
      V1.02
    Are You Sure?
 Yes→RECORD+ENTER Key
  No→STOP Key
```
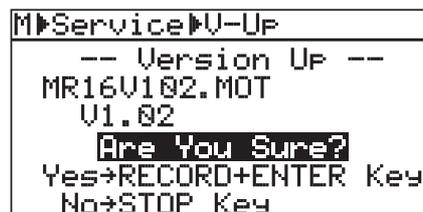
22) The software updating procedures begin. "File loading...", "Flash ROM Erasing..." and "Flash ROM Writing..." will appear in order. It will take about one minute to complete the procedures.

```
M▶Service▶V-Up         ACC
    -- Version Up --

 File loading...

        Please wait
```

```
M▶Service▶V-Up
    -- Version Up --

 Flash ROM Erasing...

        Please wait
```

```
M▶Service▶V-Up
    -- Version Up --

 Flash ROM Writing...

        Please wait
```

```
M▶Service▶V-Up
    -- Version Up --

 Verifying...

        Please wait
```
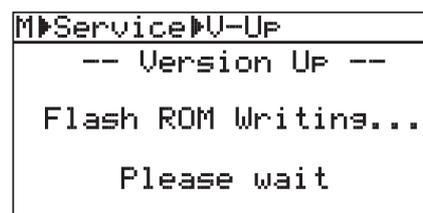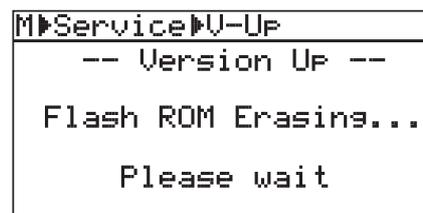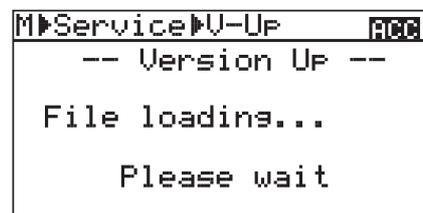
23) Upon completion, "Completed" will appear on the LCD.

```
M▶Service▶V-Up
    -- Version Up --

 Completed

 Please hit STOP key
 & Start reboot!
```

24) Turn off the power once and then back on to complete the software update procedures. In the meantime, confirm the software version number and the programming date displayed for a short instance in the boot-up process.

```
-2bar1.000clk
07/02/05 V1.02
..........................s01
..........................
..........................
12345678 910 1112 1314 1516 L R
```

The software version can be checked by the "Version" Service Mode menu. In the condition with normal display appears, press the [MENU/ENTER] dial while holding down the [STOP] key to access the Service Mode menu. If you do so, the display on the right will appear on the LCD. Rotate the [MENU/ENTER] dial to select the "Service Mode" menu and press the [MENU/ENTER] dial.

```
MENU(2/2)▶Service
 ◀◀Back
 Input          ▶
 USB            ▶
 USB HOST       ▶
 CD-RW          ▶
 ▲Service Mode  ▶
```

Select the "Version" menu and press the [MENU/ENTER] dial.

```
M▶Service(1/1)▶V-Up
 ◀◀Back
✦ Version▶
  Version Up▶
```
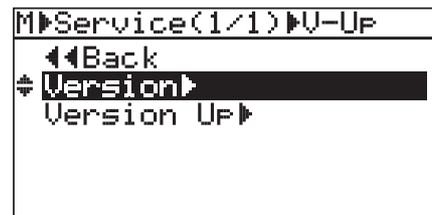
The display on the right will appear on the LCD. It indicates that the programming date is February 5th, 2007, the version number is V1.02 and the CPU revision number is E2. To get back to the normal display, press the [STOP] key.

```
M▶Service▶Version
 -- Version --
 07/02/05 V1.02
 Rev.E2

  STOP Key → Exit
```
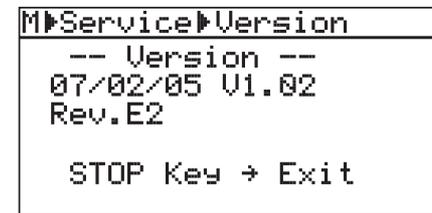
25) Press the [STOP] key to return to the normal display mode. Then, press the [MENU/ENTER] dial to enter the MENU mode.
26) Rotate the [MENU/ENTER] dial to select the "System" menu and press the [MENU/ENTER] dial.

```
MENU(1/2)▶System
 ◀◀Back
✦ System        ▶
  Song          ▶
  Track Edit    ▶
  Part Edit     ▶
  Rhythm Guide  ▶
```
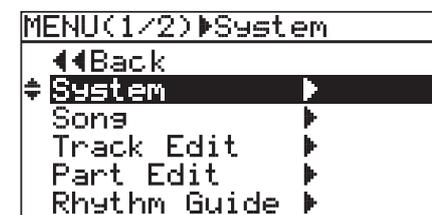
27) Rotate the [MENU/ENTER] dial and select the "Init Memory" menu.

```
M▶System(3/3)▶Init Mem
 ◀◀Back
▲ Init Memory     ▶
```
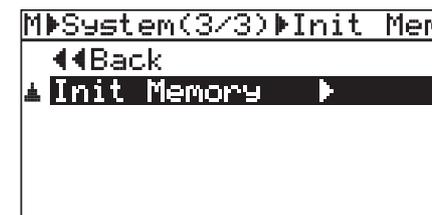
28) Press the [MENU/ENTER] dial.
29) The display contents on the right appear on the LCD. Press the [MENU/ENTER] dial while holding down the [RECORD] key. This operation will initialize all the system settings to default.

```
M▶System▶Init Mem
 - Initialize Memory -
     Initialize
   System Settings
    Are You Sure?
 Yes→RECORD+ENTER Key
   No→STOP Key
```
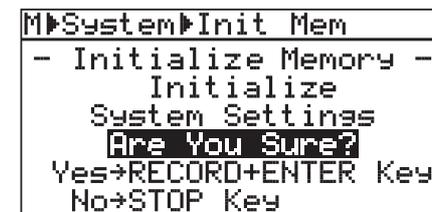
CAUTION: The "Initialize Memory" operation sets all the system settings to the default values. For example, the "Disk Protect" setting in the USB menu is set to "ON" after initializing the memory. If you would like to update the software in future, please remember that it has to be set to "OFF" again.