

To obtain a CD with the upgrade firmware, please fill out the support form on our website:

<http://www.microboards.com/current/support/support.shtml>

## How to upgrade Pioneer DVD-RW recorders with DSR-DVD tower duplicators

This is a description of how to upgrade Pioneer DVD-RW recorders (DVR-103 [A03] / DVR-104 [A04]) used with Microboards DSR DVD tower duplicators.

There are two discs for the upgrade of Pioneer DVD-RW recorders: one is for the DVR-103 and another for the DVR-104.

**CAUTION: Before you start upgrading Pioneer DVD-RW recorders, please be sure there is no disc in a recorder.**

1-1. Please check if your DVD-RW recorder with DSRDVD Tower is "DVR-103" or "DVR-104".

1-2. You can check which recorder is connected using the menu display.  
Turn on your system. The initial screen is displayed as follows.

COPY START?  
(CDtoCD)

1-3. Press the NO button and select the SETUP screen.  
Press the YES button at the following screen.

SETUP?  
(MODE CHANGE)

1-4. The MODE SELECT screen is displayed.

>MODE SELECT?  
(COPY MODE)

Press the NO button until the DRIVE INQUIRY screen appears

>DRIVE INQUIRY?

1-5. Press the YES button in the DRIVE INQUIRY screen.  
The inquiry string of DVD-RW recorder is displayed if you press the NO button three times.

WRITER (iXT 01)  
PIONEER

1-6. Please check whether an inquiry string is “DVR-103” or “DVR-104”.

```
WRITER      (iXT 01)
DVD-RW DVR-103
```

DVR-103 (A03)

```
WRITER      (iXT 01)
DVD-RW DVR-104
```

DVR-104 (A04)

1-7. Turn off the system.

1-7. Press and hold the YES button and turn on the system. Hold the YES button until the system beeps once.

1-8. There will be a message to install a program CD. Tray of DVD-ROM drive is opened automatically. Load the program CD for DVR-103 or for DVR-104, according to the inquiry string listed for your system.

```
INSERT
PROGRAM DISC
```

1-9. The system starts to upgrade automatically after analyzing the firmware CD.

1-10. The firmware CD is ejected after the upgrade completes.

The system re-starts with the new firmware installed. After it finishes re-starting, please check if your DVR-103 or DVR-104 upgraded successfully.

DVR-103 ver1.90 should be displayed if it upgraded successfully.

```
WRITER      (iXT 01)
DVD-RW DVR-103
```

```
WRITER      (iXT 01)
1.90
```

DVR-104 ver1.33 should be displayed if it upgraded successfully.

```
WRITER      (iXT 01)
DVD-RW DVR-104
```

```
WRITER      (iXT 01)
1.33
```