# RattleByte Multi Region Upgrade Board

# Pioneer
# BDP-170   Elite BDP-80FD

### Fitting Instructions

## Preparation

In order to fit this upgrade board, you will require the following:

- ✔ A soldering iron with a fine tip
- ✔ Solder and flux
- ✔ Double-sided tape (included)
- ✔ Thin jumper wire (included)
- ✔ Philips screwdriver
- ✔ USB stick
- ✔ Firmware files (provided)

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**Warning: Fitting this modification to your Blu-Ray disc player will invalidate the manufacturer's warranty!**

**The fitting of this multi region upgrade board requires solid soldering skills. Please do not attempt to perform the modification if you have little or no experience with a soldering iron! In this case, please let a qualified service agent fit the modification for you.**

**This modification is performed entirely at your own risk. We shall not be liable in the event of damage to your Blu-Ray disc player as a result of fitting or use of this modification.**

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# Installing the Upgrade Board

- Disconnect the unit from the mains
- Remove the top cover and disconnect all cables from the green mainboard. Note their positions for later reassembly!
- Unscrew the two screws holding the mainboard inside the unit and two screws on the outside, then remove the mainbard
- Use the thin jumper wire to connect the pads 3V3, GND and A,B,C and D of the upgrade board with the corresponding solder points on the underside of the mainboard as shown
- Refit the mainboard and reconnect all the cables
- Attach the upgrade board at a suitable location with the double sided tape
- Replace the top cover and update the firmware as described below

Underside connections

# Updating the Firmware

In order to complete the multiregion modification, the firmware of your unit must first be updated. To update the firmware, proceed as follows:

1.  Unpack the provided archive file to an empty FAT32 formatted USB stick. Do not change file names or location!

2.  Turn on the player and insert the USB stick into the front USB slot.

3.  Go to Initial Setup → Options → Update and select "USB Storage". Press ENTER in the confirmation screen to start the update.


# Installing Future Firmware Updates

Once the modified firmware has been installed you will no longer be able to update the firmware over the network. If a new firmware update is released by Pioneer please ask your seller of the upgrade board for a customized version. Once you have obtained the new customized firmware, proceed as described above.