

Installation Instructions

Thank you for purchasing the DVRBB from DVRBLACKBOX, Inc.
This device will be a welcome addition to your television enjoyment.
DVRBB is pre-loaded with a channel guide of your choice making the installation relatively easy.

Below is a list of parts included with your kit:

- 1 - 6 ft. 3.5mm to 3.5mm male to male IR control cord
- 1 - 6 ft. 2.5mm to bare copper end activator sensor cord
- 1 - 9vdc power transformer pack
- 1 - DVRBB

Installation of DVRBB

Install the activator sensor cord (supplied with your DVRBB) to the 4DTV activator wiring terminal (see illustration #1 below), this wire is added to any existing wiring connected now.

- 1). Connect the black wire with white strip to the GND terminal
- 2). Then connect the black wire to the PULSE terminal.
- 3). Take your activator sensor cord male end and plug into activator input jack of your DVRBB (see illustration #2)

Note: These are reversed so if the plug is removed from DVRBB the tip of this is not sensitive to being grounded accidentally, during a guide software update.

Illustration #1



Next you will install the DVR control cord determined by the guide you have chosen.

- 1). For the MetaConnect or Dishnet guides you will use the 6 ft 3.5mm male to 3.5mm male IR control cord. (Supplied with your DVRBB), plugging one end to your DVRBB (see illustration #2 below) and one end to your DVR IR control jack.
- 2). For DirecTV guide use the serial 9 pin cord. (Supplied with your DVR Recorder) You will plug your 9 pin serial cord into the DVRBB (see illustration #2 below) and the other end to your DVR Serial control jack.

Note: It is important that your DVRBB matches the channel guide that your DVR is currently using. So if you're using Dishnet guide on your DVR then Dishnet guide must be installed to your DVRBB. Also your DVR guide setup may need to be redone as the channel guide for Dishnet must use a RCA receiver box setup using the IR control cable, or Motorola for MetaConnect for the IR control cable.

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Bridging The Gap

Next you will place the IR blaster cord making sure the IR LED(s) are over the right side of the satellite display window on the face of your 4DTV receiver, this is the IR remote pickup area. Then you will plug your IR blaster into the output of your DVRBB on the same side where your power jack and Life LED are located. (see illustration #2 below)

Illustration #2



Lastly install the 9vdc power transformer pack into a 120vac non-switched receptacle, place the power plug to the power jack on the DVRBB (see illustration #2 above). As soon as the device is powered up it will start the DVRBB testing, changing satellites on the 4DTV, checking activator sensor wiring and IR blaster remote control. *If Rapid LED blinking occurs at this time see the troubleshooting guide.*

Guide changing / updating

Channel guides are in a HEX format located on www.dvrblackbox.com a boot-loader is needed to talk to the DVRBB during programming. With the DVRBB powered* up connect a 9 pin standard serial computer cable to a computer (serial cable and computer aren't supplied), and to DVRBB serial jack. Set the downloader for 38400 bps, select the DVRBB channel mapping HEX file, and click the send button this should take about 30 seconds to complete. Reconnect the DVRBB back to your DVR and 4DTV receiver you're now up to date. **Note: Ok if in error mode LED Rapid flashing during this time.*



Troubleshooting Guide

Normal Life LED flashes

1.5 second ON flash during first power up indicates self test OK.

Life LED blink(s) every 4 seconds

1 blink indicates that DVRBB is running the DirecTV mapping guide

2 blinks indicates that DVRBB is running the MetaConnect mapping guide

3 blinks indicated that DVRBB is running the Dishnet mapping guide

LED blinking errors

Rapid LED blinking errors

If 4DTV moved when the DVRBB was first powered up, then the Activator sensor setup is not working.

a.) *Recheck installation instructions*, then reset DVRBB by removing Power plug to power jack on DVRBB for 10 seconds then reinstall same.

b.) Activator sensor at dish can be defective, does 4DTV work normally with DVRBB activator sensor plug removed, if not 4DTV must be repaired first.

If 4DTV didn't move when the DVRBB was first powered up, then the IR blaster is not working. IR Blaster can be looking at the wrong location on 4DTV, unplugged, or installed to wrong jack on DVRBB. *Recheck installation instructions*, then reset DVRBB by removing Power plug to power jack on DVRBB for 10 seconds then reinstall same.

Slow LED blinking error

Bad DVRBB download or non DVRBB download (use only DVRBB supplied guide software) just re-download guide the same as if you're changing DVRBB channel guides types.

DVRBB is moving dish but never changes channel

DVRBB channel timing is something it needs by its *activator* sensor input, if something has gone wrong with activator sensing (*see below*) then the DVRBB assumes in error that the dish has stopped while in-fact that it maybe still traveling. During this time DVRBB changed channel but 4DTV was unable to accept it, in response DVRBB is acting as if it never did change channels. *Recheck Rapid LED blinking errors, or recheck installation instructions.*

DVR remote doesn't control 4DTV receiver, but Life LED flashes normal?

If DVRBB flashes 1, 2, or 3 flashes normal the control cable is installed wrong or DVR itself is setup wrong, or DVR is setup for wrong channel guide. The DVRBB and DVR must be matching channel guides.