

PMcV2 Installation and Usage Instructions for 2008 – 2010 Panasonic Plasma TVs

Thank You for Your Purchase!

Thank you for purchasing a PMcV2! I sincerely hope that the PMcV2 enables you to extend the enjoyment that you receive from your Panasonic Plasma television for many more years. Should you have any questions or need any support with your PMcV2, please visit the website at <http://audiodane.dandk.org>.

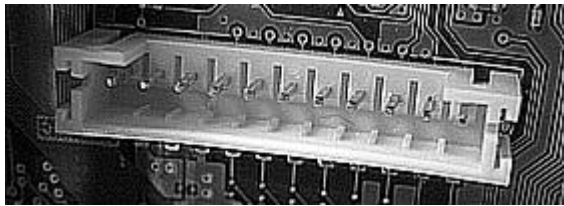
Warranty and Refund Policy

Unfortunately, **there is no warranty and/or refund offered for the PMcV2**. You assume all risk and liability for the use of the PMcV2 product. I have spent a great deal of effort to reduce the likelihood that the PMcV2 will cause any harm, but I cannot and will not assume any liability for any damage caused by its use or misuse.

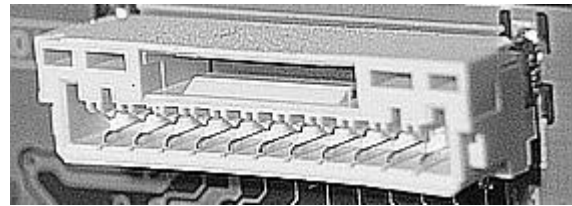
Installation and Operation

1. Unplug your TV from wall outlet. Ensure that you have sufficient and safe access to the back of it.
2. On the back of your TV, locate and remove the **TV's access cover** to the TV's service panel. Its location and size will vary from model to model. 2008-2009 models use a removable plastic cover, 2010 models use an adhesive label. See <http://audiodane.dandk.org/PMcV2> for some examples of various models.
3. Where the **TV's access cover** was removed, locate the **11-pin service connector** (see below for help).

2008-2009 Model Year Service Connector

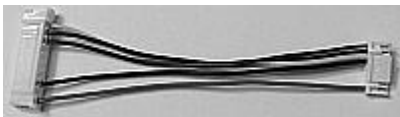


2010 Model Year Service Connector



4. Ensure that your PMcV2 device has the **proper cable** installed to match your TV's **11-pin service connector**. PMcV2 units are shipped with the 2008-2009 cable attached. If you need to switch cables, press down gently on the top of the white connector and pull it gently out of the PMcV2 device. You may then insert the other cable. The cables will only fit one way into the PMcV2 and will "click" into place and remain securely connected. Use the diagrams below for help.

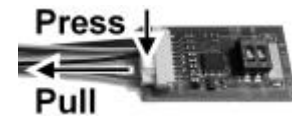
2008-2009 Cable (Wide & Narrow Ends):



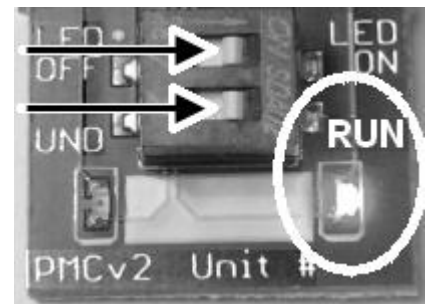
2010 Cable (Two Narrow Ends):



Removing Cable from PMcV2



5. Install the **PMcV2 with proper cable** into the TV's **11-pin service connector**. The TV-end of the PMcV2 cable will only fit one way into the service connector and may click or snap into place. Verify the PMcV2 is firmly attached.
6. Plug the TV back into the wall outlet but **do not turn the TV on** until told to do so in the next steps.
7. With the TV plugged in but still turned off, the PMcV2 unit will turn on **both LEDs** for about five (5) seconds, but then **only one LED**. A **solid Green LED** indicates that the PMcV2 is ready to operate.
8. If the Green LED is not on, then carefully slide both switches towards the **RUN** label using tweezers, a toothpick, etc. Ensure that now **only the green LED** is illuminated.
9. Turn on the TV. The PMcV2 will check the TV's black level and will automatically reset it if necessary.
 - a. **If a reset occurs, the PMcV2 will blink its green LED once every few seconds** to indicate that a reset occurred successfully. At this time **the TV will be on but may not show an image on the screen**. This is normal. **Simply turn the TV off and then back on again. Congratulations, your TV's black level has been restored to looking its best!**
 - b. **If no reset occurs, the PMcV2 will not blink its LED**, and the TV will turn on normally.
10. From now on, every time your TV is turned on, the PMcV2 will repeat step 10. Resets will occur approximately every 150 hours of TV usage. Refer to step 10 or the reverse side for more information.



Moving the PMCV2 to Another TV

The PMCV2 has been designed to work with a single TV and is not meant to be used on multiple TVs. If you have multiple TV's that need their black level reset, please purchase additional PMCV2 units. (For a more detailed answer, when the PMCV2 is first installed it stores certain data from the TV to the PMCV2 internal memory in case there are problems during operation that need to be undone. Once the data from one TV has been stored internally, the PMCV2 may not function properly on another TV.)

These LEDs are Way Too Bright!

If the LEDs on your PMCV2 are too bright for your liking, you can instruct the PMCV2 to turn them off by moving switch #1 (the switch closest to the protective heat shrink sleeve) towards the "LED OFF" label using tweezers, a toothpick, etc. In this condition, the LEDs will turn off after about four (4) seconds. To ensure that important PMCV2 activity is not missed, **blinking LEDs are not affected by the LED OFF switch** (see "LED Blinking Patterns" for more information). Even in the LED OFF condition, every time the TV is turned OFF, one of the LEDs will re-illuminate (red or green, depending on the mode switch) for about four (4) seconds to remind you that the PMCV2 is installed and operating properly, and then turn back off again.

LED Blinking Patterns and What They Mean

Red and green LEDs are used to indicate information. Use the table below to understand what they mean:

<u>LED Blinking Pattern</u>	<u>What it means, and what to do next</u>
The PMCV2 LED (green or red) stays on (not blinking)	If either LED is solidly lit (or stays on for four (4) seconds then turns off because switch #1 is set to "LED OFF") that means the PMCV2 is operating normally, waiting to again check the TV the next time it is turned on.
The TV's front LED is on , no image appears on the TV , and the PMCV2 green LED blinks once every few seconds	Congratulations! The PMCV2 has just successfully reset your TV's black level! Simply turn the TV off and back on again. This is normal and will happen again every 150 hours of TV usage to ensure that your TV's black level remains at its best.
The PMCV2 green LED blinks twice every few seconds	The PMCV2 has just attempted to reset the TV's black level but something went wrong and the value was not properly stored in the TV. Try turning the TV off and back on again to let the PMCV2 try again. If this condition continues to occur, then the PMCV2 is not compatible with your TV and you should flip the switches on the PMCV2 towards the UND label and turn your TV off and back on one more time. This will instruct the PMCV2 to restore the original values back to your TV and the PMCV2 will then go forever dormant.
The PMCV2 red LED blinks once every few seconds	The PMCV2 has just successfully restored the TV back to its original condition (e.g. like it was before the PMCV2 was installed), and the PMCV2 will no longer attempt to reset your TV's black level. The PMCV2 may be left installed (it is now dormant), or removed / discarded.
The PMCV2 red LED blinks twice every few seconds	The PMCV2 has attempted to restore the TV back to its original condition (e.g. like it was before the PMCV2 was installed), but the value was not properly accepted by the TV. Try turning the TV off and back on to give the PMCV2 another chance to restore the TV back to its original condition. You may additionally try removing the PMCV2 completely. If your TV functions normally with the PMCV2 removed, then you may simply discard it.
The TV's front LED blinks and no image appears on the TV	The PMCV2 is not compatible with your TV and you should flip the switches on the PMCV2 towards "UND" (Undo) and turn your TV off and back on one more time. This will instruct the PMCV2 to restore the original values back to your TV and the PMCV2 will then go forever dormant and not bother you again. At that point you may leave it installed or remove it from your TV. (NOTE: If pushing the TV power button does not work, try holding the TV power button for at least five (5) seconds and then release it. The TV should "click" off and then try to turn back on automatically.)

Feedback Request (Pictures, Personal Experiences)

Please consider taking pictures of the back of your TV and sharing them with the community. Useful pictures include the location of the service connector and what it looks like, as well as any before/after shots. Thanks!