

# PMcV1 Installation and Usage Instructions

## for 2008 – 2010 Panasonic Plasma TVs

### Thank You for Your Purchase!

Thank you for purchasing a PMcV1! I sincerely hope that the PMcV1 enables you to extend the enjoyment that you receive from your Panasonic Plasma television for many more years. If you need help, please visit the website at <http://audiodane.dandk.org/pmcv1> for the most up-to-date information.

### Warranty and Refund Policy

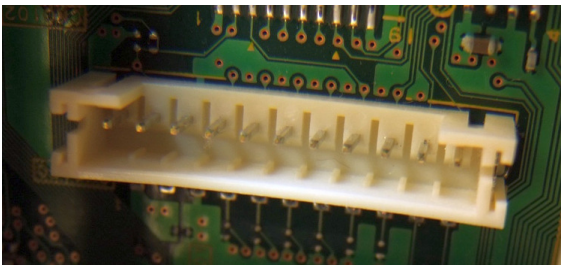
Unfortunately, **there is no warranty and/or refund for the PMcV1**. You assume all risk and liability for the use of the PMcV1 product. I have spent a great deal of effort to reduce the likelihood that the PMcV1 will cause any damage to your television, but I cannot assume any liability for its use or misuse. I am sorry.

### Installation and Operation

1. Unplug your 2008-2010 Panasonic Plasma TV from wall outlet.
2. Ensure that you have sufficient and safe access to the back of your TV.
3. On the back of your TV, locate and remove the access cover to the TV service panel. Its location and size will vary from unit to unit. 2008-2009 models use a removable plastic cover, and 2010 models use an adhesive label. (Check <http://audiodane.dandk.org/pmcv1> for examples.
4. Locate the 11-pin service connector behind the access cover removed in the previous step. There may or may not also be other connectors present. The 11-pin connector on the TV will look like one of those shown below:

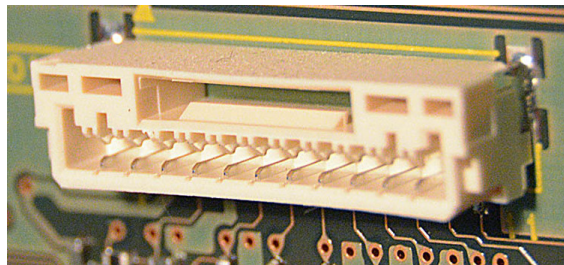
#### 2008-2009 Model Year Service Connector

(Uses PMcV1 with PHR11 (Wide) Connector)



#### 2010 Model Year Service Connector

(Uses PMcV1 with GHR11 (Narrow) Connector)



5. Install the PMcV1 connector into the TV service connector. The PMcV1 connector should only fit “one way” into the service connector, and may even slightly click or snap into place. Verify the PMcV1 is firmly attached.
6. Plug the TV back into 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 PMcV1 unit should turn on both red and green LEDs for about five (5) seconds and then enter normal operating mode indicated by only one LED turned on at a time.
8. Ensure that the green LED is illuminated (this is “GO” mode). If not, slide both switches towards the green LED. This should cause the green LED to illuminate.
9. Turn on the TV.
10. As long as the PMcV1 is installed, it will check your TV’s black levels every time you turn on your TV. Approximately every 150 hours of TV usage the PMcV1 will automatically reset the TV’s black levels back to their factory values and blink the PMcV1’s **green LED once** every few seconds to indicate a successful reset. At this time the TV will be on but may not show an image on the screen. (This is normal.) **Simply turn off the TV and turn it back on again.**
11. Congratulations, your TV’s black level has been restored to looking its best!



PMcV1 in GO mode

## Moving the PMCV1 to Another TV

The PMCV1 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 PMCV1 units. (When the PMCV1 is first installed it stores certain data from the TV to the PMCV1 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 PMCV1 may not function properly on another TV.)

## 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. You may even want to create a YouTube installation video! If you wish to take before and after photos of your black level, please be aware that such pictures are often difficult to get "right" due to changes between pictures in aperture/f-stop, exposure/shutter-speed, and white balance. If you are able to share your photos and/or videos, please share them on the PMCV1 website at <http://audiodane.dankd.org/pmcv1>. Thank you!

## Troubleshooting

Hopefully the PMCV1 will **never** give you any trouble. However, if it does, try these troubleshooting tips:

### Condition / Trouble

### What it means, and what to do next..

The PMCV1 **green** LED blinks **once** every few seconds

Congratulations! The PMCV1 has just successfully reset your TV's black levels! 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 remain at their best. Turn off the lights and grab a bag of popcorn!

The PMCV1 **green** LED blinks **twice** every few seconds

The PMCV1 has just attempted to reset the TV's black levels 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 PMCV1 try again. If this condition continues to occur, then the PMCV1 is not compatible with your TV and you should flip the switches on the PMCV1 towards the **red** LED and turn your TV off and back on one more time. This will instruct the PMCV1 to restore the original values back to your TV and the PMCV1 will then go forever dormant and not bother you again. At that point you may leave it installed or remove it from your TV.

The PMCV1 **red** LED blinks **once** every few seconds

The PMCV1 has just successfully restored the TV back to its original condition (e.g. like it was before the PMCV1 was installed), and the PMCV1 will no longer attempt to reset your TV's black levels. The PMCV1 may be left installed (it is now dormant), or it may be removed and discarded.

The PMCV1 **red** LED blinks **twice** every few seconds

The PMCV1 has attempted to restore the TV back to its original condition (e.g. like if was before the PMCV1 was installed), but the value was not properly accepted by the TV. Try turning the TV off and back on to give the PMCV1 another chance to restore the TV back to its original condition. If this condition continues to occur, try removing the PMCV1 completely. If your TV functions normally with the PMCV1 removed, then you may simply discard it.

The **TV's** front LED blinks and no image appears on the TV

The PMCV1 is not compatible with your TV and you should flip the switches on the PMCV1 towards the **red** LED and turn your TV off and back on one more time. This will instruct the PMCV1 to restore the original values back to your TV and the PMCV1 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.)