Application Note
How to change the external tagging switch to the integrated hot line tag button on the PCD enhanced front panel

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Introduction
The enhanced front panel on the PCD incorporates a hot line tag button. Upgrading the PCD with this panel requires a couple wiring modifications and a modification of the PCD’s programmable inputs and outputs. This programming assumes the customer uses remote tagging and utilizes Alternate 2 settings for hot line tagging.

Hardware Modification
With AC and DC power removed from the control, remove the hot line tag switch, nameplate and lamp from the front panel (See Figure 1). The switch is connected to the In1c contact (first input contact on the third module from the right) and is wetted through the switched DC output contact on the terminal block. The lamp is connected to the Out1c contact (first output contact on the third module from the right). This wiring should be removed. Refer to the wiring diagram included with the unit for wiring codes.

Figure 1: Original Tag Switch

Figure 2: Hot Line Tag Button For Enhanced Panel
Setting Modification
The programmable input and output logic in the PCD is programmed with the WinPCD software, included with the PCD control. The control with the enhanced front panel will normally be programmed before shipment with hot line tag logic utilizing the front panel pushbutton. In the event of a retrofit, modify the programmable inputs and programmable outputs as follows:

1. Change the programmable Output mapping from what is shown in Figure 3 to Figure 4. Note that the programming for the Trip and Close may vary depending on the style number, but is irrelevant for hot line tag programming. The hot line tag programming begins with the Out1c contact. The TAGBTN is the input activated when the tagging button is pressed.

![Figure 3: Original Programmable Output Mapping for Hot Line Tagging](image)

![Figure 4: Programmable Output Mapping for the Enhanced Front Panel](image)
2. Change the programmable Input mapping from what is shown in Figure 5 to Figure 6. Note that the programming for the 52a and 52b contact configuration may vary depending on the style number, but is irrelevant for hot line tag programming. The hot line tag programming begins with the In1c contact. The TAGBTN is the input activated when the tagging button is pressed.

![Figure 5: Original Programmable Input Mapping for Hot Line Tagging](image1)

![Figure 6: Programmable Input Mapping for Enhanced Front Panel](image2)

Once programmed, test the programming by activating the tagging locally and remotely. The LED next to the Hot Line Tag, as well as Alternate 2 settings must activate for either local or remote tagging. If tagged remotely, a “Warning – Remote Tag Applied” message must appear on the HMI.

Contact ABB PCD technical support at 1-800-929-7947 ext. 2510 or +1-407-732-2000 x 2510 for further information.