

Introduction

This document provides instructions to install the optional Wallplate Exposure Pushbutton Switch, P/N A6321, to the ProVecta HD X-ray System for remote triggering of the exposure. This pushbutton switch is only intended to be connected to isolated (4kV isolation), low voltage, low current (< 24 V, < 50 mA) signal lines.

Using installation kit, P/N A6320, the pushbutton switch can be installed using the supplied 35-foot phone cable or existing 3-conductor cable. Refer to the ProVecta HD Installation Instructions, P/N A6385, for additional details.

By using a second installation kit, two pushbutton switches can be connected together. They can either be configured so that either pushbutton switch can activate the X-ray or so that both must be pressed simultaneously to activate the X-ray.

The pushbutton switch can also be used with the optional ProVecta HD Control Panel Remote Mounting Kit, P/N A6400. Refer the instructions included with that kit for additional details.

Installation

Install the switch by performing the following steps, each described in more detail below.

1. If necessary, refer to step 1 and disassemble the control unit to access the PCB on the base unit.
2. Refer to step 2 to set jumpers W1, W2 & W3 as shown by Table 1 for the configuration being installed.
3. Refer to step 3 and connect the pushbutton switch according to the appropriate option below.
 - a. See Option 1 when using the supplied phone cable terminated with RJ11 plugs.
 - b. See Option 2 when using existing 3-conductor cable.
 - c. See Option 3 if also installing the remote control panel.
4. As necessary, refer to step 4 to reassemble the control unit.
5. Refer to step 5 when performing the acceptance test.

Supplied Contents of Kit P/N A6320

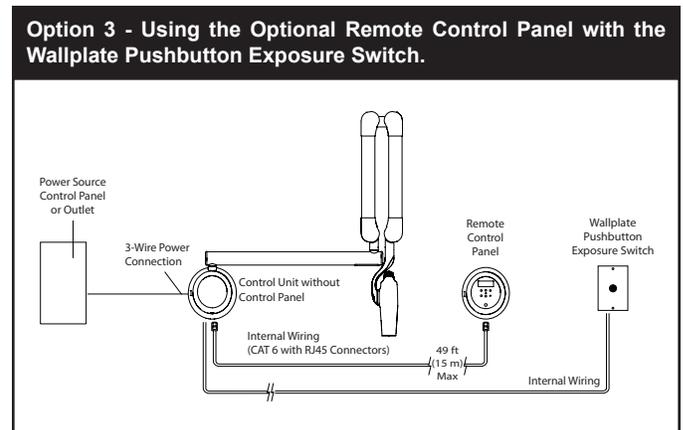
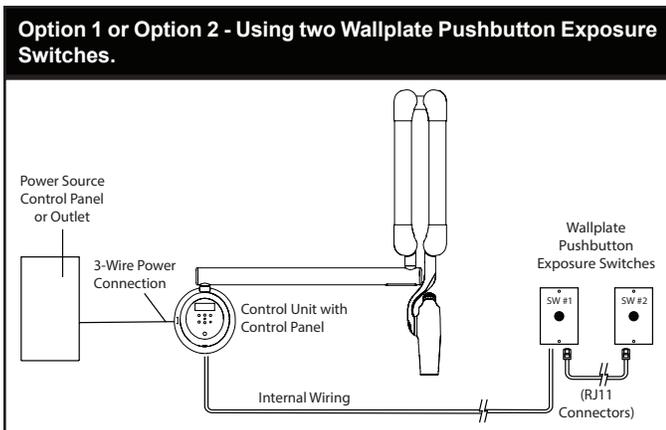
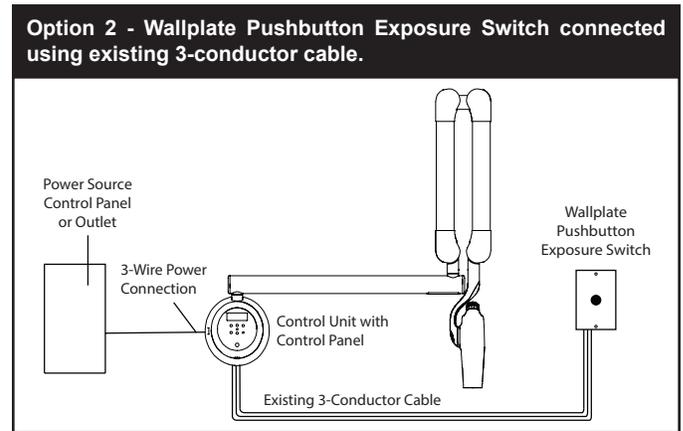
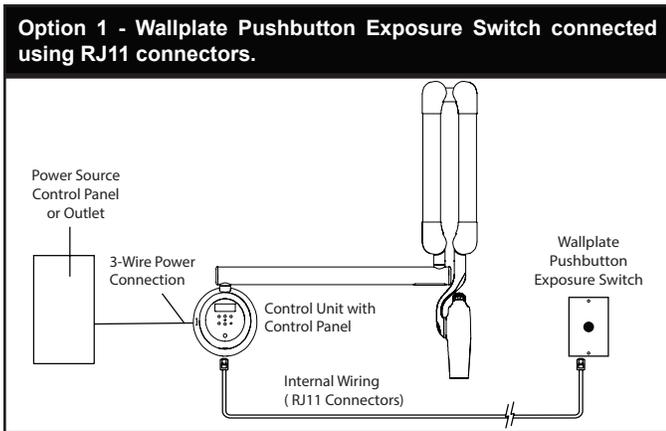
Part No.	Description	Qty
A6321	Wallplate Exposure Pushbutton Switch Assembly	1
A2523	35 FT Phone Cable	1
A2372-3	Mini Screwdriver Kit	1



Remove all power from the ProVecta HD system prior to working within its Control Unit.



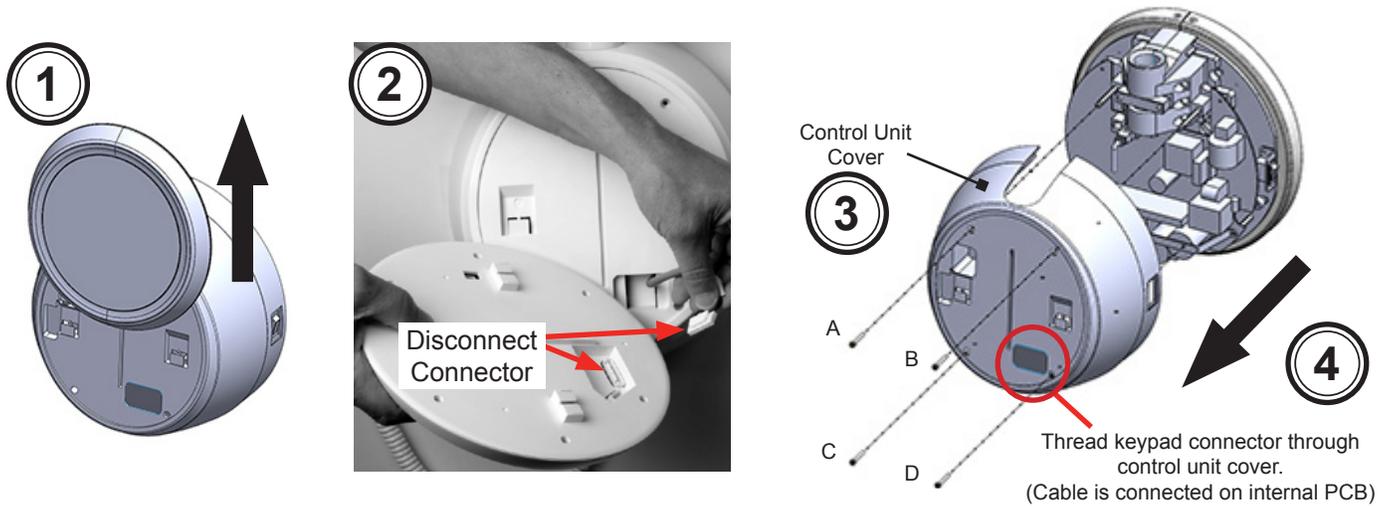
Make sure that the switch installation complies with local electrical codes.



Step 1: Disassemble Control Unit to Access Base Unit PCB

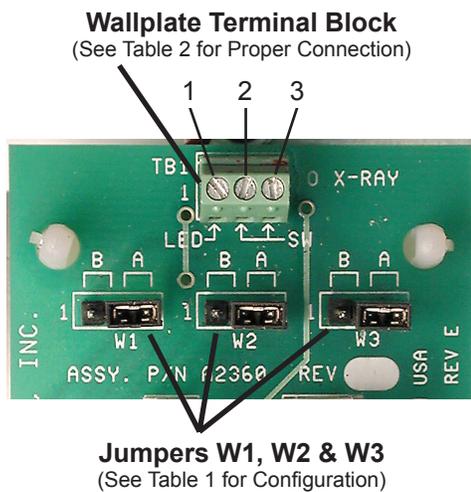
The ProVecta HD control unit comprises the control panel, cover and base unit. In order to access the base unit to make connections to the associated PCB, the control unit must be disassembled. Refer to the illustrations below and disassemble the control unit by performing the following steps.

1. Slide the control panel slightly horizontal up.
2. Disconnect the rear keypad connector and remove the control panel from the control unit.
3. Loosen and remove the 4 screws (A, B, C, D) securing the control unit cover.
4. Carefully thread the keypad connector through the control unit cover while removing the cover revealing the PCB.



Step 2: Exposure Switch Configuration Setup and 3-Conductor Connections

Refer to the illustrations and tables provided below to setup the exposure switch to operate in the configuration as necessary.



Detail A: Exposure Switch Jumper Configuration and 3-Conductor Connection.

Table 1. Exposure Switch Jumper Configuration

Wallplate Configuration		W1	W2	W3
Single Wallplate	Wallplate 1	A	A	A
2 Wallplates - Both Switches Must Be Pressed Simultaneously To Activate X-Ray	Wallplate 1	B	A	B
	Wallplate 2	A	A	A
2 Wallplates - Either Switch May Be Pressed To Activate X-Ray	Wallplate 1	A	A	A
	Wallplate 2	A	A	A

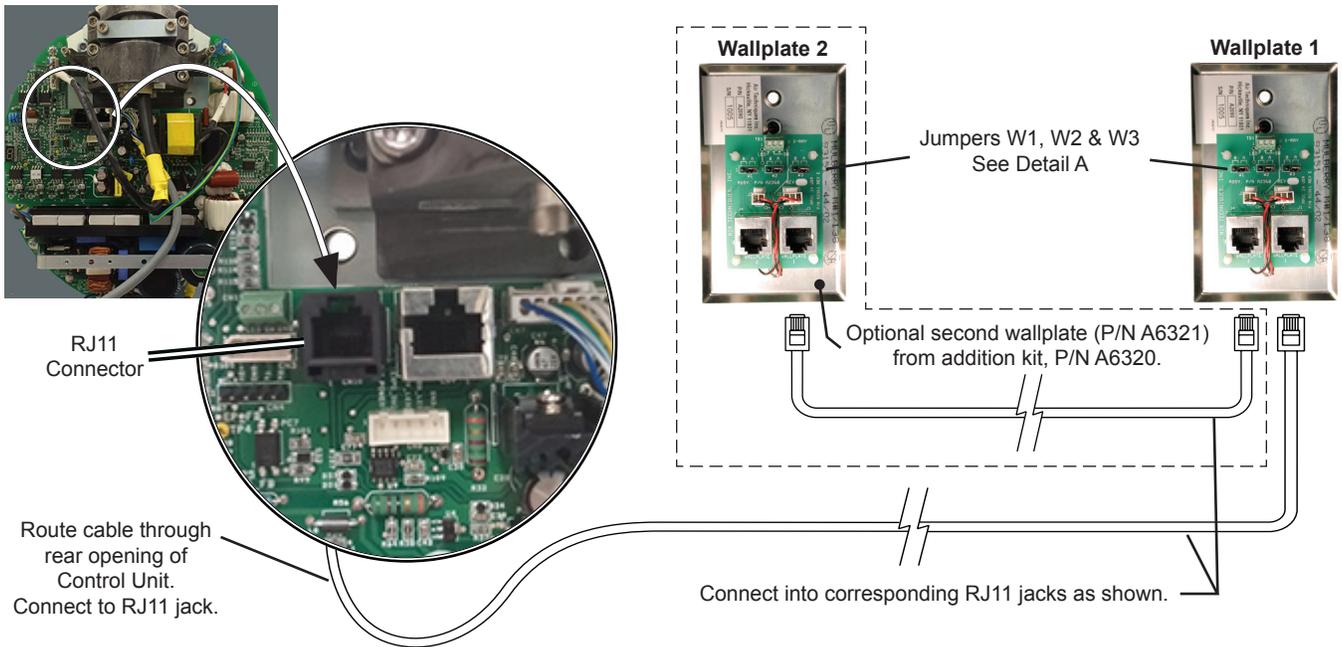
Table 2. Control Unit To Wallplate 3-Conductor Connection

Control Unit Terminal Block	Wallplate 1 Terminal Block
Terminal 1 - LED	Terminal 1 - LED
Terminal 2 - SW	Terminal 2 - SW
Terminal 3 - GND	Terminal 3 - SW

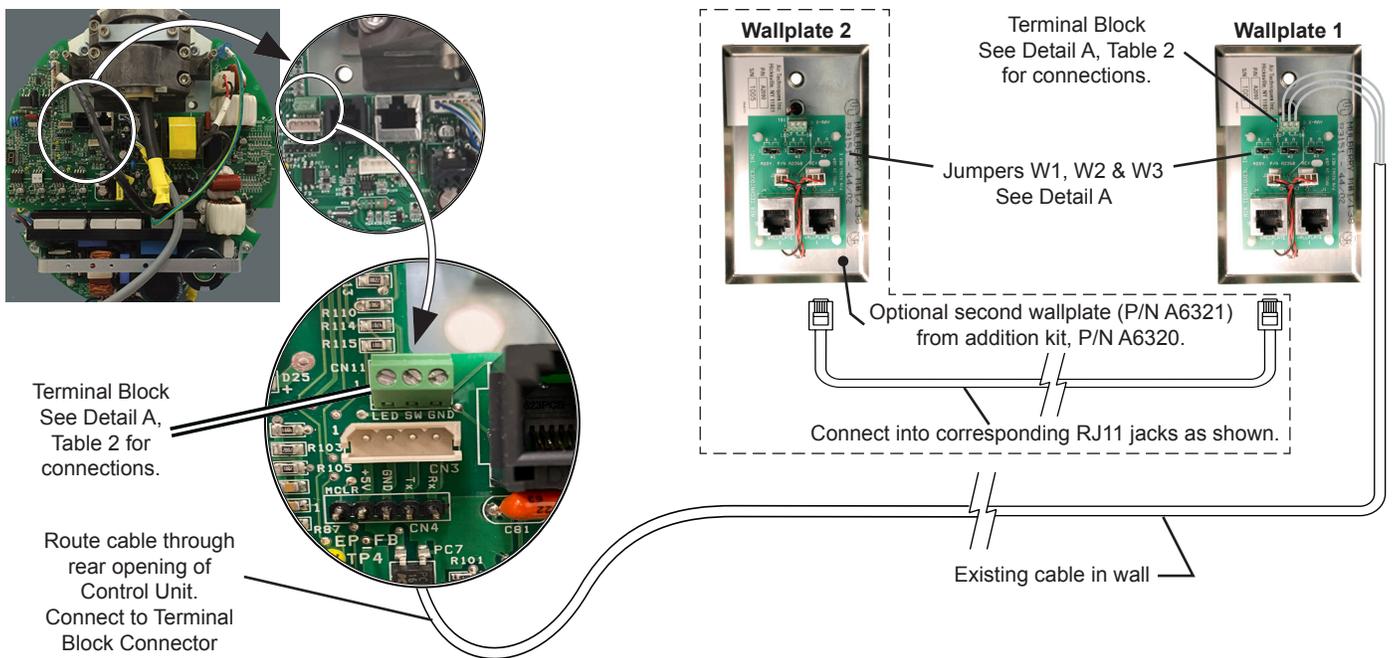
Note: The conductor from the LED terminal on the Wallplate Terminal Block must **always** be connected to the LED terminal on the Control Unit Terminal Block.

Step 3: Switch Connection Options

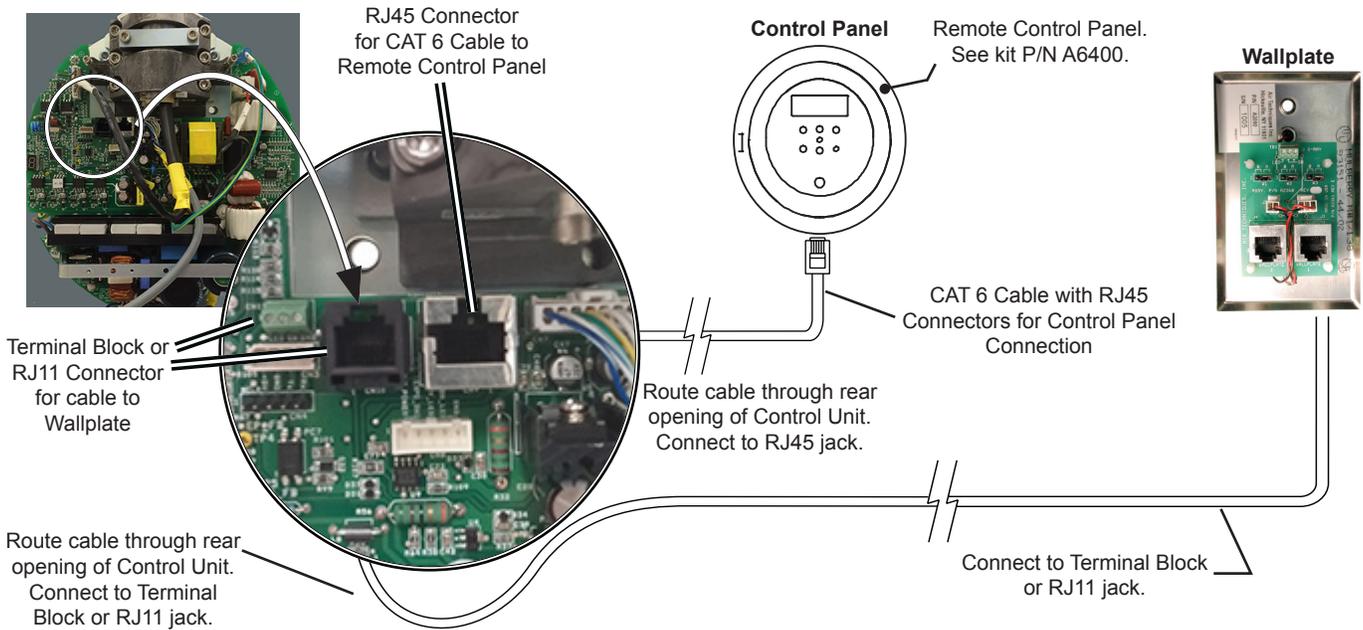
Option 1 - Interconnect Using Supplied Phone Cable with RJ11 Plugs.



Option 2 - Interconnect Using 3-Conductor Cable (Not Included).



Option 3 - Using Optional Remote Control Panel



Step 4: Assembling the Control Unit

Assemble the Control Unit by performing the following procedure.

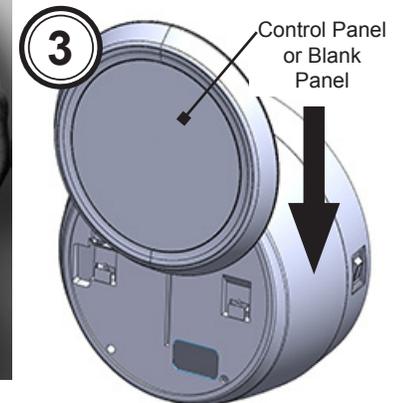
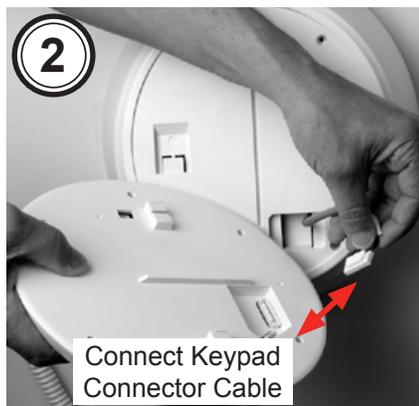
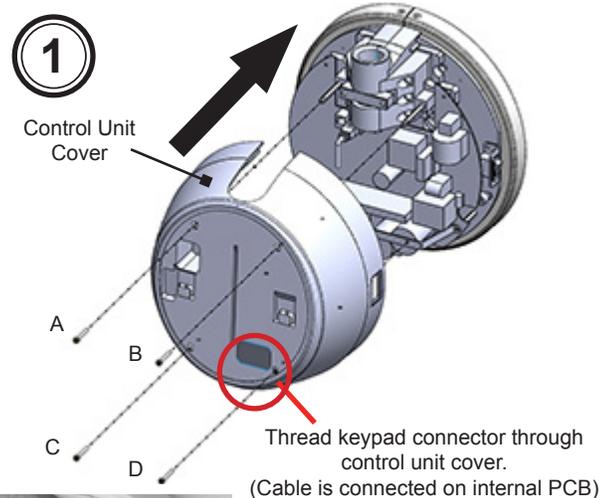
1. Install Control Unit cover as follows.
 - a. Carefully thread the keypad connector cable through the Control Unit cover and align the cover with the base unit.
 - b. Install and tighten the 4 screws (A, B, C, D) securing the Control Unit cover.

Note: When installing the Control Panel remotely, the rear keypad connector stays unconnected. See the instructions in the ProVecta HD Control Panel Remote Mounting Kit, P/N A6400.

2. Connect the rear keypad connector of the control panel as necessary.

Note: When installing the control panel remotely, a blank replacement panel is installed on the control unit. See the instructions in ProVecta HD Control Panel Remote Mounting Kit, P/N A6400.

3. Align the panel spine with the control unit cover center groove and slide the control panel down in place.



Step 5: Acceptance Test

After completing installation of the Control Unit and as part of the acceptance test, ensure that the LED on each wallplate illuminates while the unit is emitting X-rays.



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