

Nexgen Rear Display 47-861048-403

Packaging

This package contains the following components:

- 1 Ea. 47-142761-000 GS-X Display to Nexgen Cable Assembly
- 1 Ea. 47-142762-000 GS-X Rear Power, Stop Switch Cable Assembly
- 1 Ea. 47-142768-000 GS-X L.H. Function, Power Cable Assembly
- 1 Ea. 47-862509-403 Nexgen Firmware V4.97.02
- 1 Ea. 47-863011-400 GS-X Rear Display with International Keypad
- 1 Ea. 47-902101-000 Instruction Sheet

Nexgen CPU PCB Inspection

i **IMPORTANT!:** *In bowling centers where GS-X pinsetters were installed between 2000 to 2003 (Series Number 465 - 510), the communication circuit was not enabled on the CPU Board. If the Rear Display unit is installed on pinsetters with this version of the CPU PCB, a “NO COM” error will be displayed on the Rear Display. Before attempting to install this package, you will need to identify if an upgrade of the CPU Board is needed.*

To identify if a CPU PCB upgrade will be needed, refer to the following steps.

1. Disconnect power to the pinsetter by turning off the main power switch and unplugging the power cord to the Nexgen Box.

2. Locate the CPU PCB board and check if Regulator U39 has a black heat sink attached and is soldered on the board. Refer to *Figure 1*.

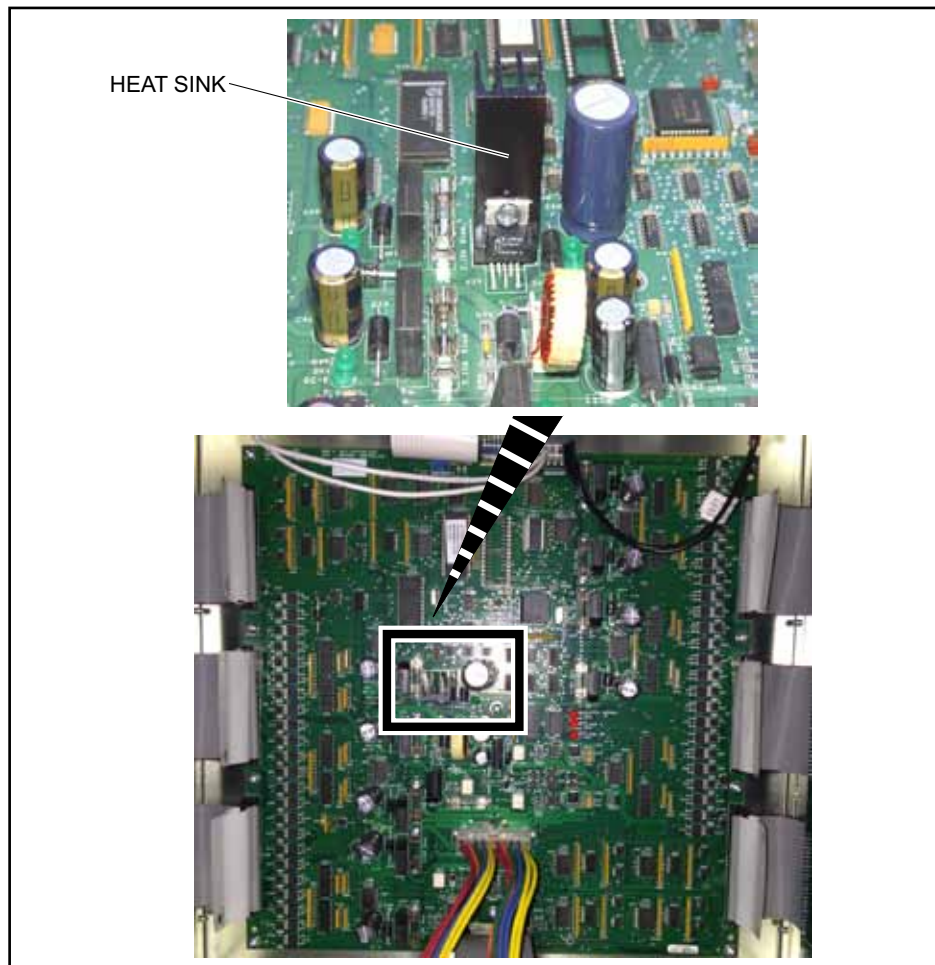


Figure 1 - Modified CPU with Heat Sink

- a. If the CPU PCB has the heat sink soldered onto the board, the board will operate as needed and the Rear Display package can be installed.
- b. If the CPU board does not have this heat sink, it will need to be replaced as it will not communicate with the Rear Display unit.

i **NOTE:** *Simply adding a heat sink will not enable communication on the CPU PCB board. The board must be exchanged.*

If a heat sink is not present, the CPU PCBs will need to be exchanged with upgraded PCBs. To receive exchange PCBs, contact the Brunswick Electronic Repair Center or an authorized Exchange Depot.

i **NOTE:** *There is an exchange fee for each board exchange. Contact the Electronic Repair Center to get current pricing information and arrange for a CPU replacement.*

United States
1-800-937-2695
231-725-4966
erc@brunbowl.com

Europe, Middle East or Africa
00-36-22-512-917
erzsebet.nagy@brunbowl.com

Installation Instructions



WARNING! Turn “OFF” and lock out power to the pinsetter at the Nexgen or Safety Controller as appropriate.

1. Replace the existing EPROM chip. Utilize the instructions packaged with the EPROM chip V4.97.02 (P/N 47-862509-403).



NOTE: Remove the existing mechanics box and associated cabling before installing the rear display.

2. Route “GS-X Rear Display Box to Nexgen” cable assembly (P/N 47-142761-000) and “GS-X Rear Display Box Power, Stop Switches” cable assembly (P/N 47-142762-000). Refer to *Figure 2*.

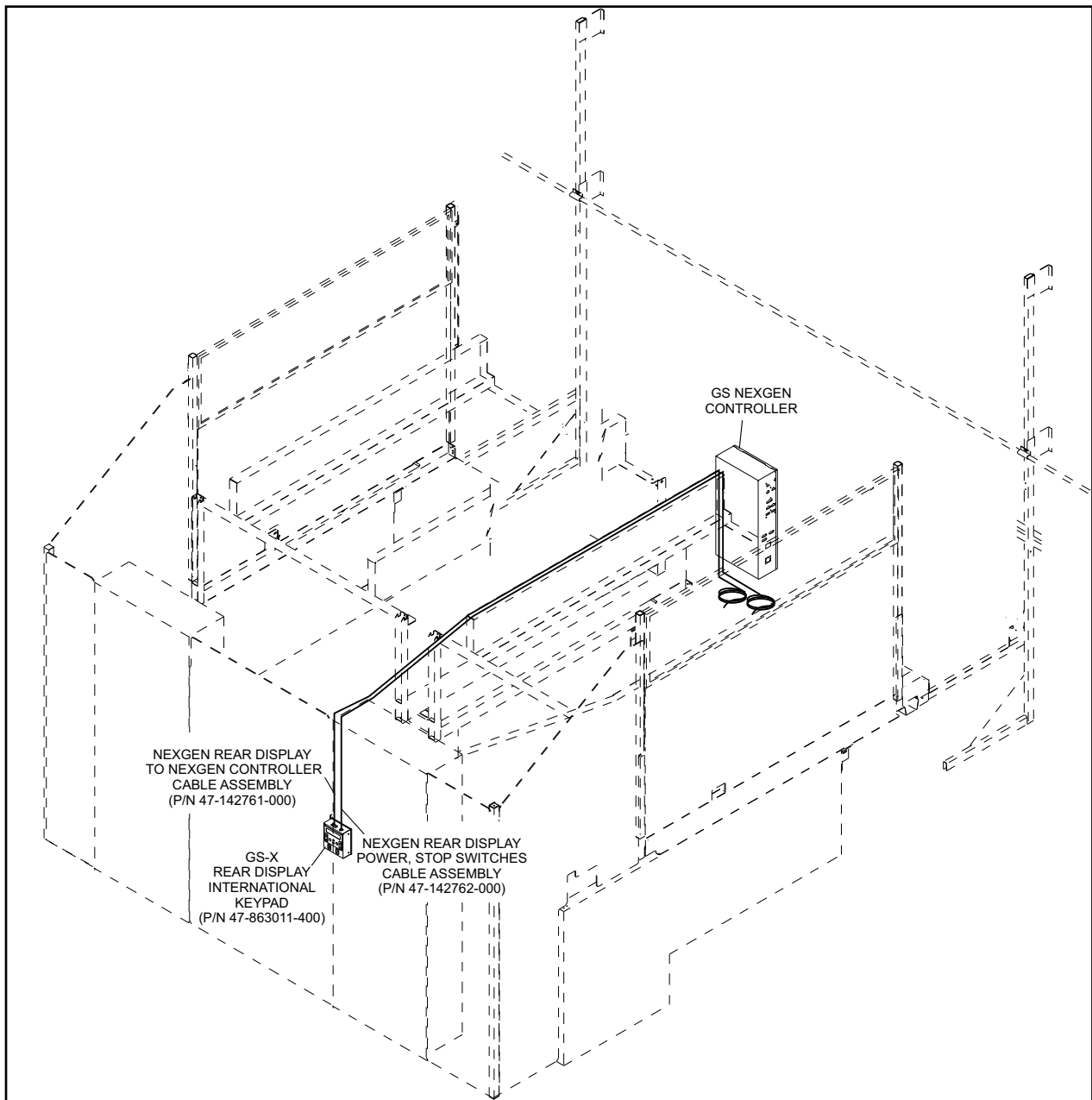


Figure 2

Mark Mounting Holes on Elevators

With Advanced or Fixed Guarding

i **NOTE:** Factory pre-drilled holes may have already been drilled in the elevator wood frame for the rear display. If these pre-drilled holes are already there, use them to mount the rear display.

1. Close rear door and mark location of door's clearance notch on the side of the elevator. Refer to *Figure 3*.

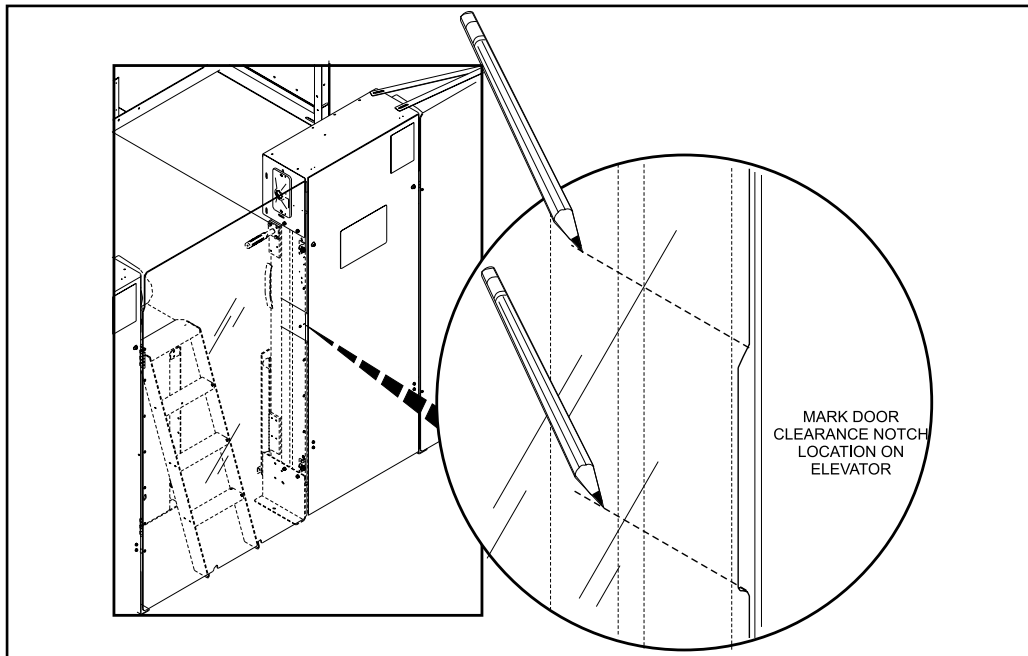


Figure 3

2. Center Remote display between lines marked on side of elevator in *step 1* and mark location of mounting holes. Refer to *Figure 4*.

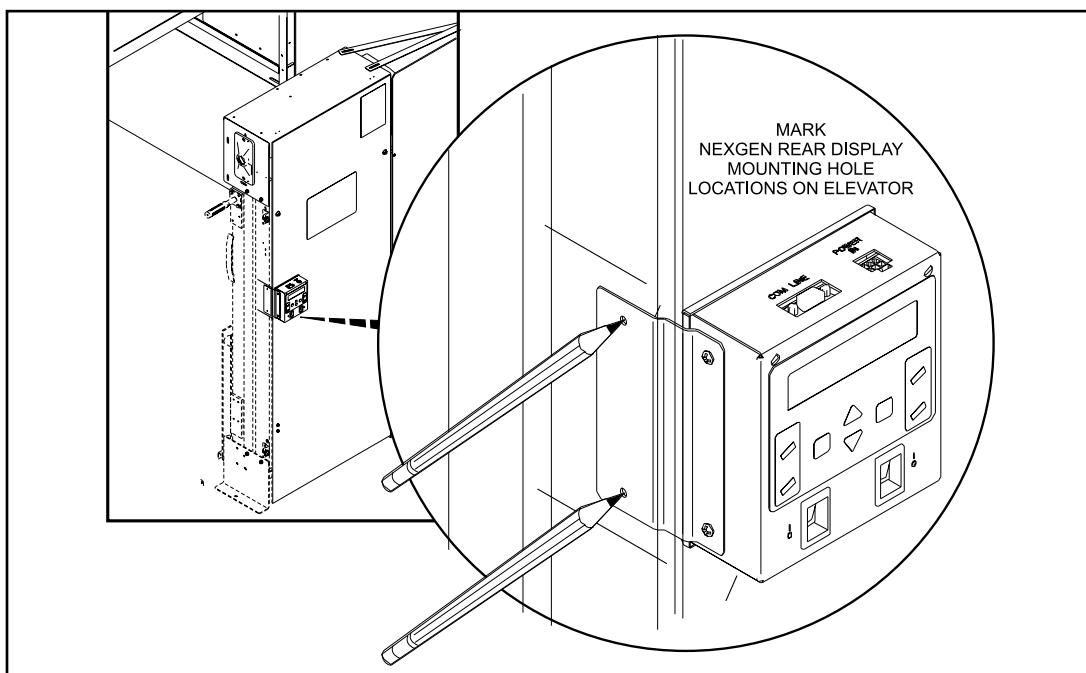


Figure 4

With Base Guarding

i **NOTE:** Factory pre-drilled holes may have already been drilled in the elevator wood frame for the rear display. If these pre-drilled holes are already there, use them to mount the rear display.

1. Place the Nexgen Rear Display (P/N 47-142750-4XX) in a location on the elevator that allows proper function of any guards and within reach of both cable assemblies.
2. Mark location of mounting holes. Refer to *Figure 5*.

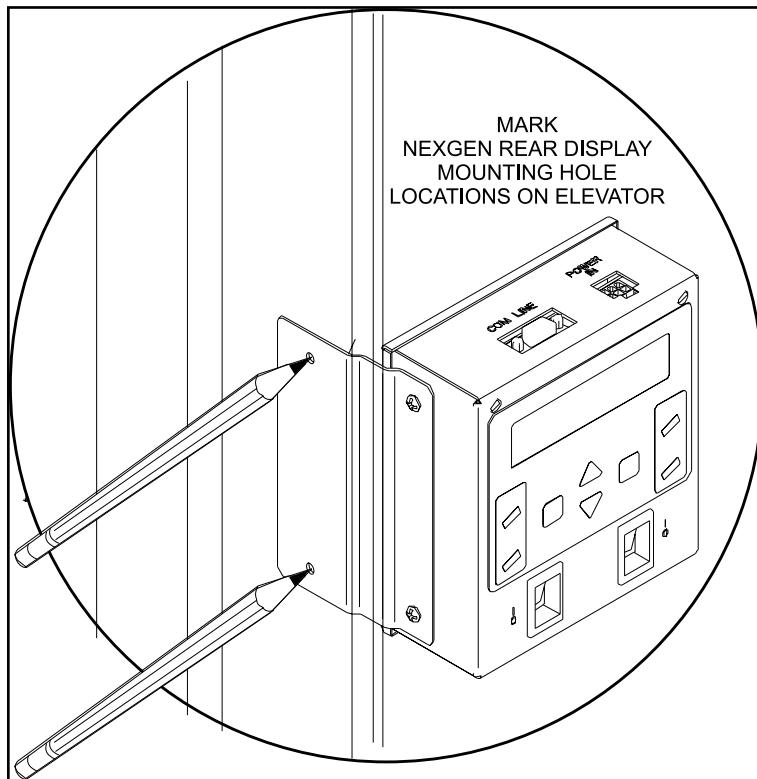


Figure 5

Drill Mounting Holes and Mount Remote Display on Elevator

1. Drill 1/4" Diameter thru holes at marked mounting hole locations on elevator. *Figure 6.*

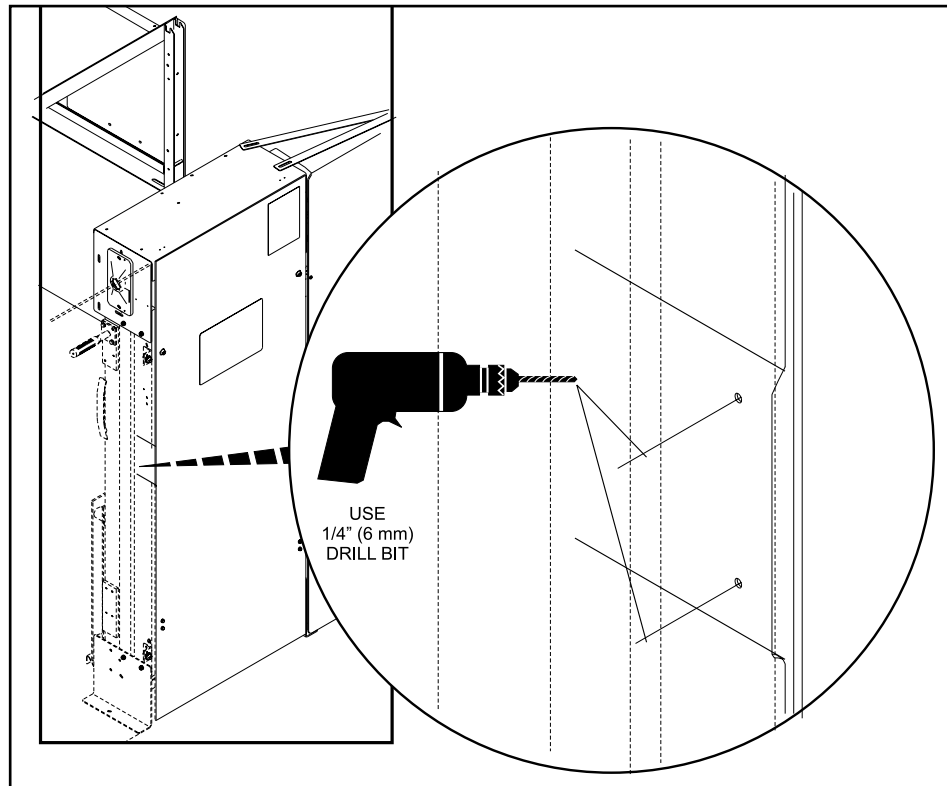


Figure 6

2. Secure Remote Display to the elevator with two M5 x 40 mm hex head cap screws (P/N 11-051027-009), two 5.3 mm I.D. flat washers (P/N 11-052020-009) and two 5 mm locknuts (P/N 11-051742-001). Refer to *Figure 7.*

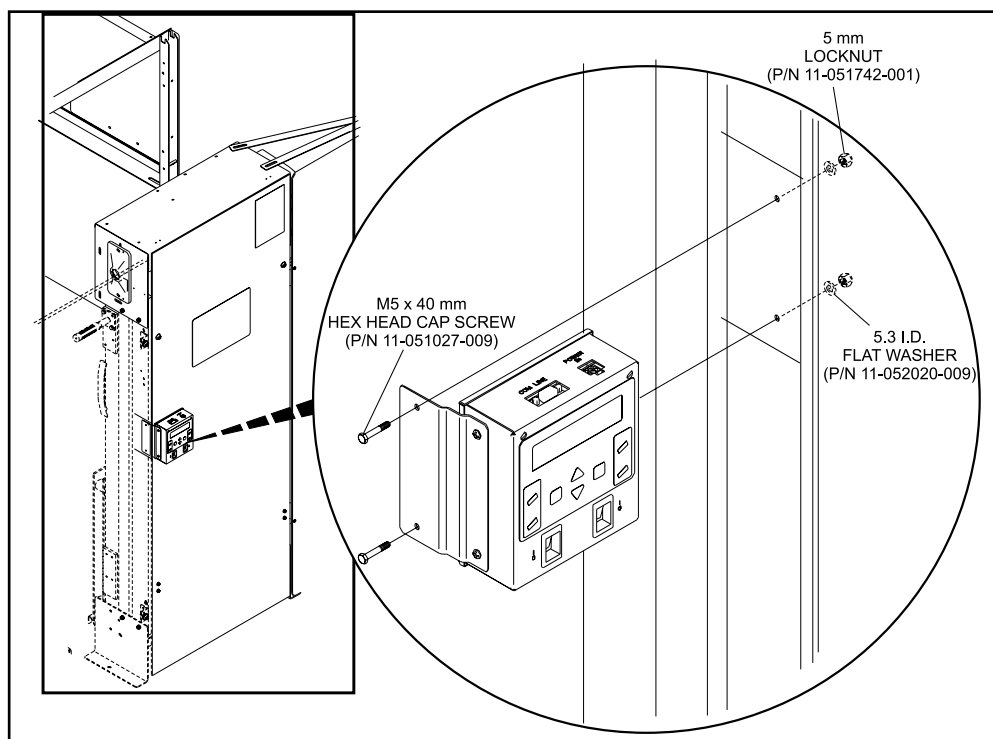


Figure 7

3. Connect cable assembly (P/N 47-142761-000) to “P16” on the Nexgen box and “COMLINE IN” on the remote display. Refer to Figure 8.

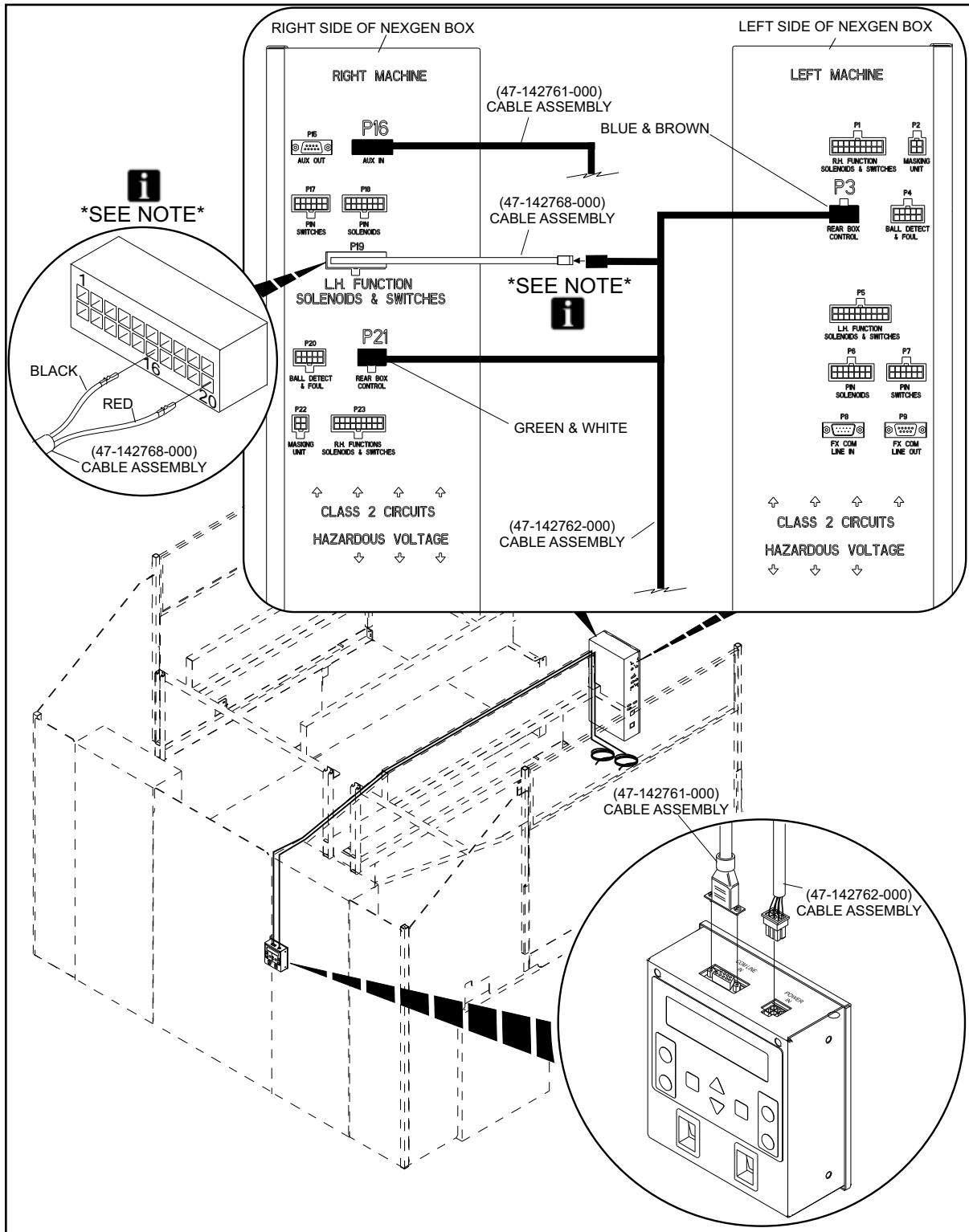


Figure 8

i **NOTE:** Check for existing Remote Display Power pigtail on the LH Function Solenoids & Switches cable (P/N 47-142790-000). If the pigtail is present, use it to connect the Black/Red power cable assembly to the P16 and P20 connections. Refer to figures 8 and 9. If the pigtail is present, skip step 4.

4. Connect pins from cable assembly (P/N 47-142768-000) to existing “P19” connector. Refer to Figure 8. Skip this step if a pigtail is already connected at pins 16 and 20.
5. Connect multi connector end of cable assembly (P/N 47-142762-000) to “P3”, “P21” and cable assembly (P/N 47-142768-000) on the Nexgen box. Refer to Figure 8.

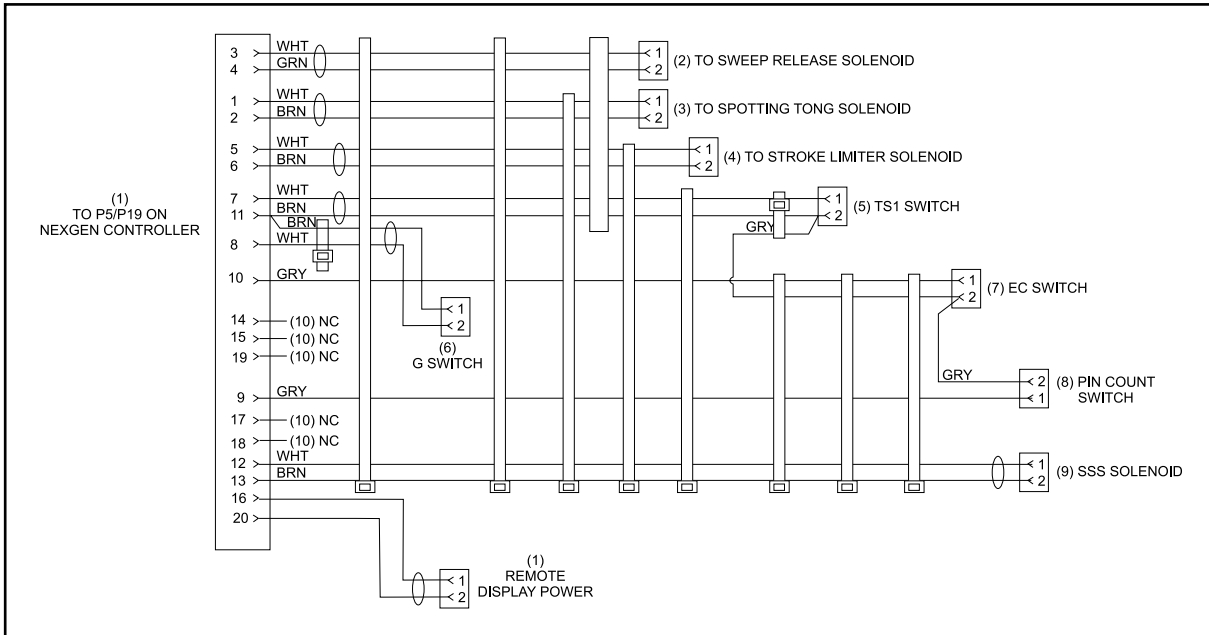


Figure 9

(1) REMOTE DISPLAY POWER PIGTAIL

6. Connect single connector end of cable assembly (P/N 47-142762-000) to “POWER IN” on the remote Display box. Refer to Figure 8.