

5-DECK WRAP DETECTOR RETROFIT

Product Information Bulletin #3666

FOR ALPHA 5 DECK SYSTEMS MANUFACTURED PRIOR TO 1/1/96

The Wrap Detector installation kit includes:

- Left Hand & Right Hand Wrap Detector Assembly.
- Mounting brackets.
- Wire harness
- Backup washers & strain reliefs
- 5 cable mounting clips

INSTALLATION

CAUTION: TO AVOID ELECTRICAL SHOCK HAZARD turn the power switch to off and unplug the power supply cord.

1. Replace the existing payout swivel mount bracket and castor swivel assemblies with the Wrap Detector assemblies. The left hand wrap detector (which controls the leg mount variac and the upper 3 arms) replaces the castor swivel assembly closest to the column. The right hand wrap detector (which controls the arm mounted variac and the lower 3 arms) replaces the outer castor swivel assembly as seen in figure 1 & 4.
2. Place the five cable mounting clips on the column as shown. Clean the column surface with isopropyl alcohol before sticking the clips to it. Do not put the cable into the clips at this time.
3. Remove the variac covers and remove the plug from the bottom right hand corner of each variac housing (See Fig. 2 & 3).

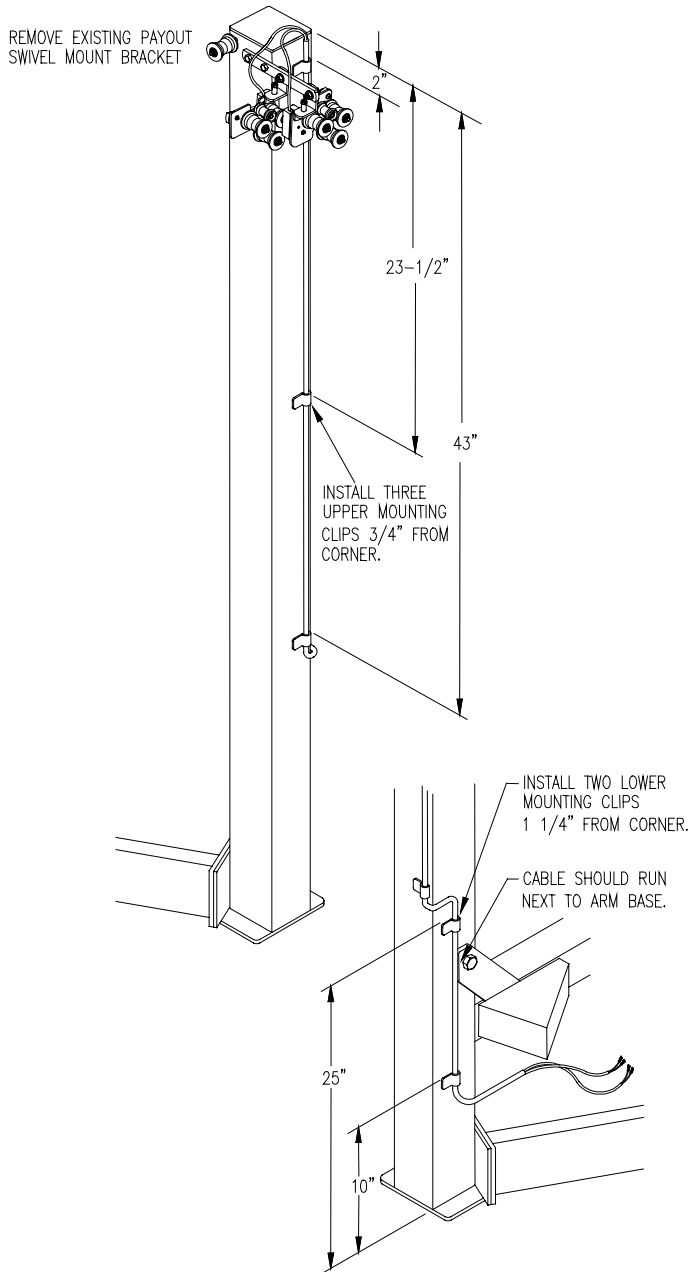
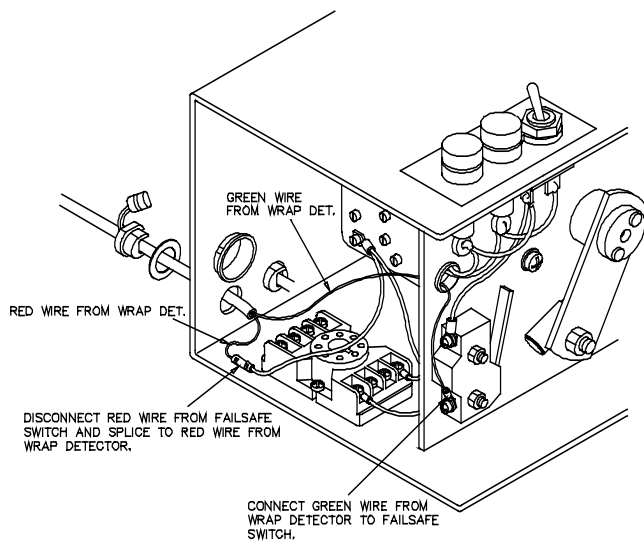
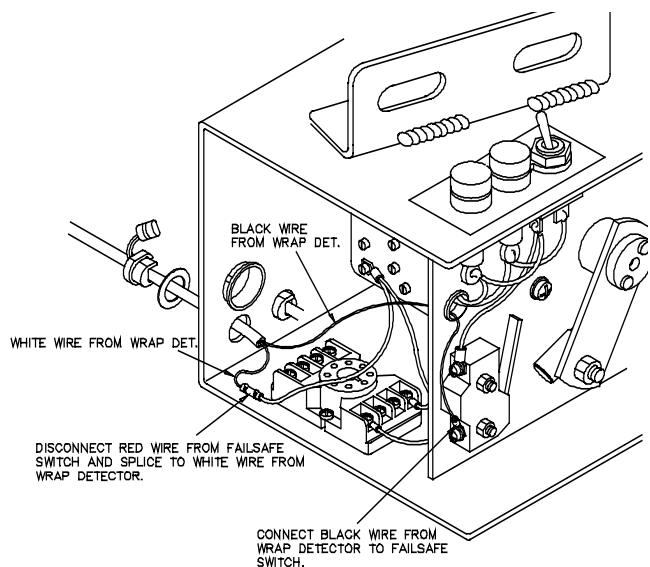


Figure 1



LEG MOUNT VARIAC

Figure 2



ARM MOUNT VARIAC

Figure 3

4. Slide a backup washer on the red and green wires (from the left hand wrap detector that controls the upper 3 arms) and insert the ends into the newly opened hole on the leg mount variac housing. (See figure 2)
5. Disconnect the existing red wire from the failsafe switch and pull it through the plastic bushing.
6. Cut off 2" of the red wire that was connected to the failsafe switch and strip the insulation back 1/4".
7. Butt splice the red wire that was connected to the failsafe switch to the new red wire in the leg mount variac. (See figure 2).
8. Run the new green wire from the left hand wrap detector through the plastic bushing. Connect it to the failsafe switch in the leg mount variac where the red wire was originally connected. (See figure 2).
9. Slide a backup washer on the black and white wires (from the right hand wrap detector that controls the lower 3 arms) and insert the ends into the newly opened hole on the arm mount variac housing. (See figure 3). Perform steps 5 and 6 on the arm mount variac.
10. Butt splice the red wire which was connected to the failsafe switch to the new white wire in the arm mount variac. (See figure 3).
11. Run the new black wire from the right hand wrap detector through the plastic bushing and connect it to the failsafe switch in the arm mount variac where the red wire was originally connected. (See figure 3).

12. Clamp a strain relief onto the wrap detector cable on each variac approximately 1" from the end of the heat shrink. Slide the backup washer onto the strain relief and press the strain relief into the open hole. The backup washer must be between the strain relief and variac housing.
13. Replace the variac covers.
14. Route the white cable along the column and through the clamps as shown in figure 1. There should be some slack between the column and variacs and between the column and wrap detector. The cable should be tight between clamps on the column.

NOTE: The cable should run against the bottom arm base plate and lay flat against the column so that it does not interfere with the feed castor operation.

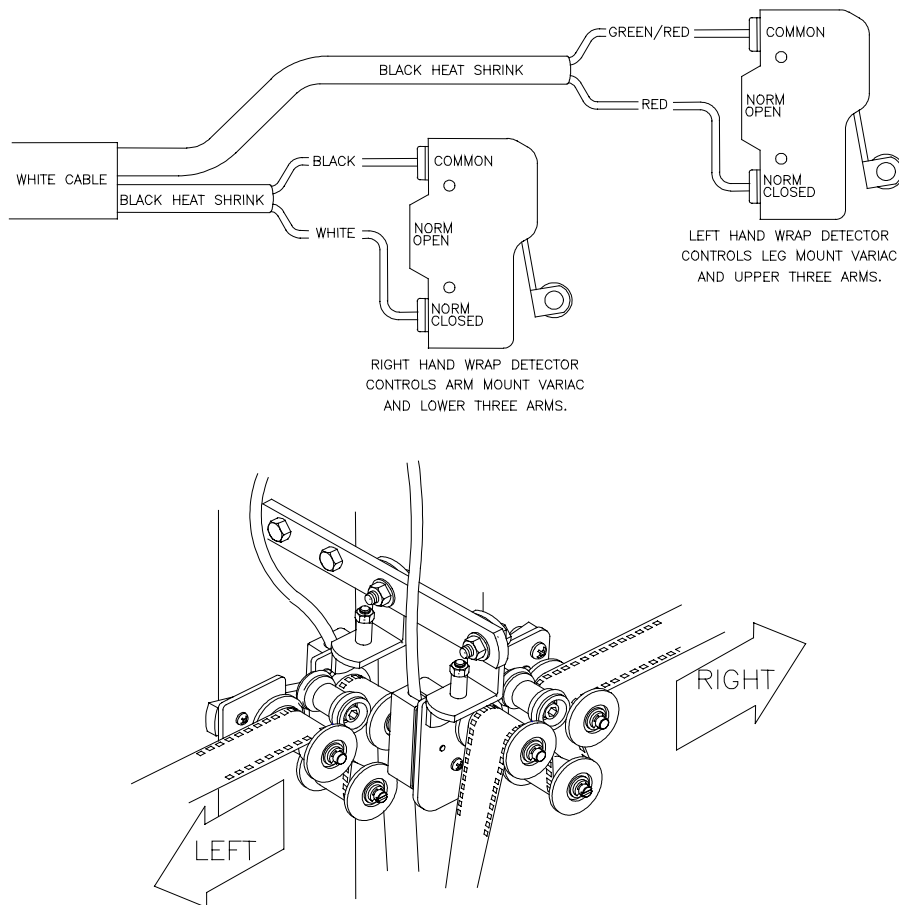


Figure 4
WRAP DETECTOR MOUNTING AND WIRING DIAGRAM.