

Aqua-Life

PRODUCTS

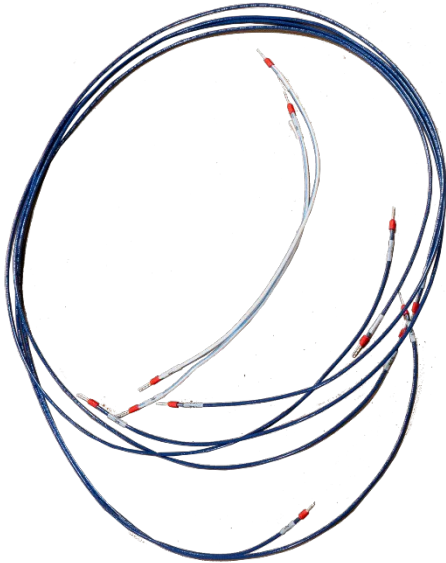


Scanreco Remote

Remote Conversion

Wires

DC- (W/B) = 10" SCS (Blue) = 34.5"
IS- (W/B) = 10" PS- (Blue) = 46"
PSI (Blue) = 46" IRS (Blue) = 34.5"



Antenna Wiring



Transmitter



Antenna



Receiver



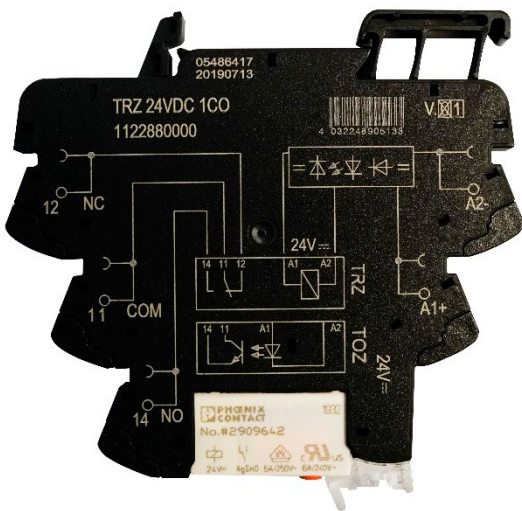
Wiring Harness



Wire Caps



0-10V Remote Relay



DC Terminal Block



DC Power Supply

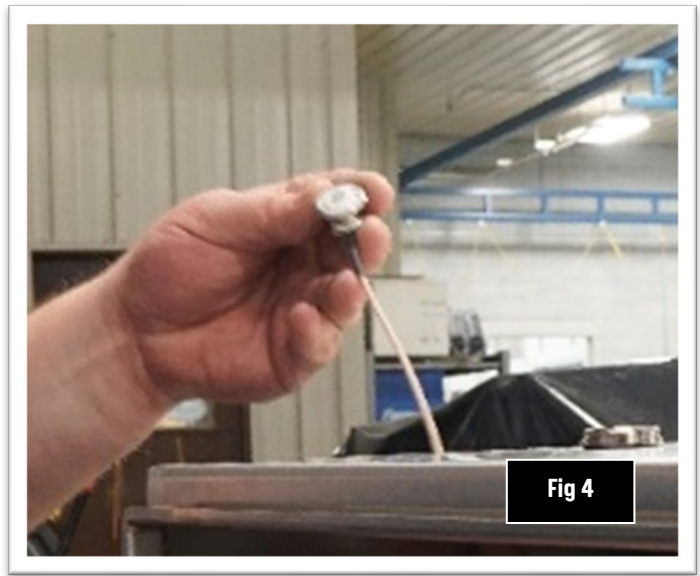
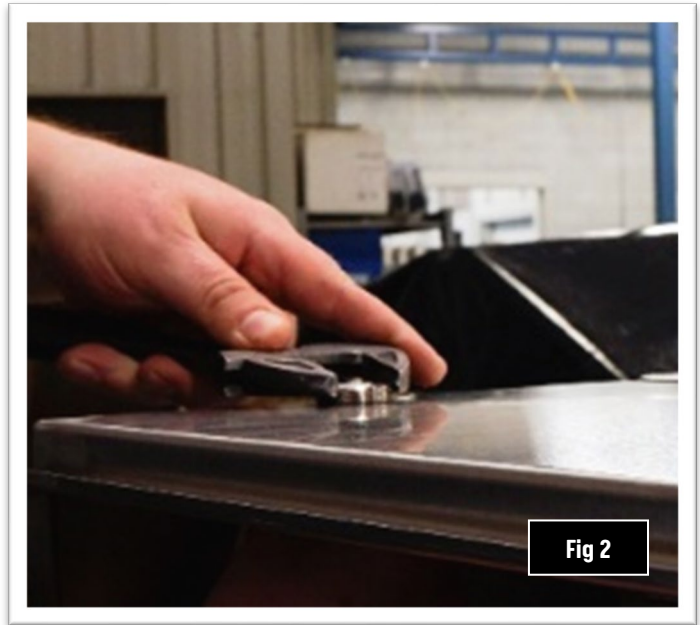
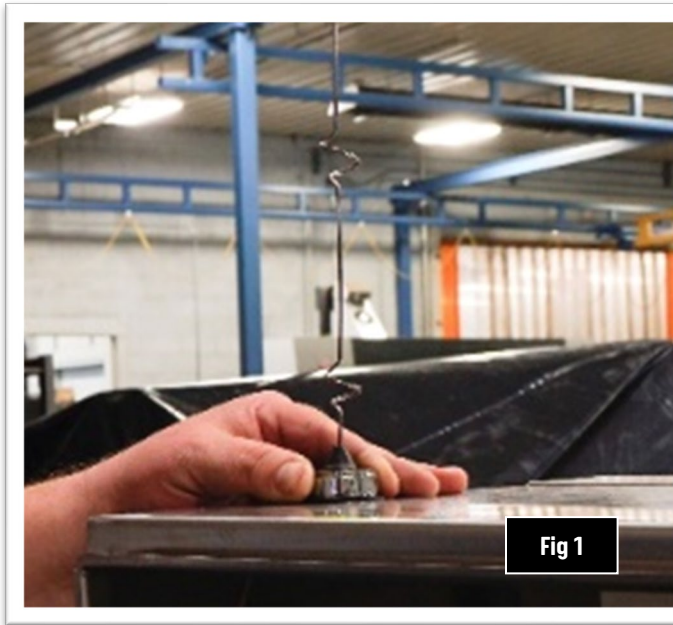


Old Relay Block



Removing the old remote

- Remove the antenna from the electrical counter by rotating the base. Fig 1
- Once the antenna assembly is off remove the rubber sealing washer. Fig 2
- Using a Crescent Wrench remove the mounting base for the antenna assembly. Fig 3
- Unplug the antenna cable from the transmitter box by simply pulling down on the plug. Fig 3
- Remove the antenna cable and base through the hole on top of the cabinet. Fig 4



With the harness unplugged remove it from the cabinet.

The receiver can be left in place or removed, but if removed be sure to plug the mounting holes

- Remove the white gutter covers from the top, center, bottom and right-side gutters. Fig 5 & 6
- Remove the red and black wires from the DC Power supply that runs to the remote wiring harness. Fig 7
- Remove the Orange, Blue, Green, and Brown wires from Relays 1,2,3,4 that are installed in Terminal A2 on each relay. Fig 8
- Unplug the wiring harness from the receiver by pushing in the tab on each side of the plug and pulling the plug away from the receiver. Fig 9



Fig 5

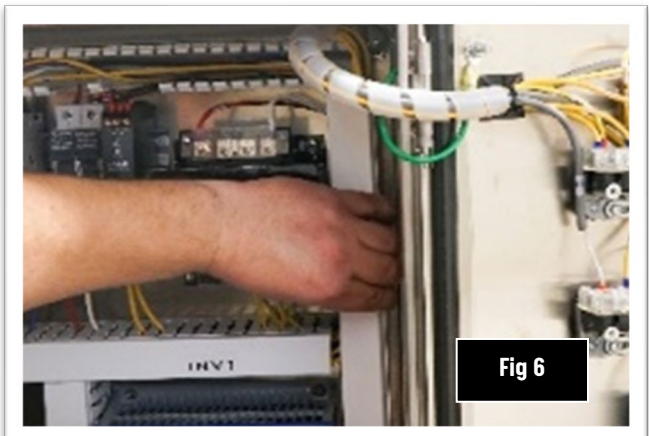


Fig 6

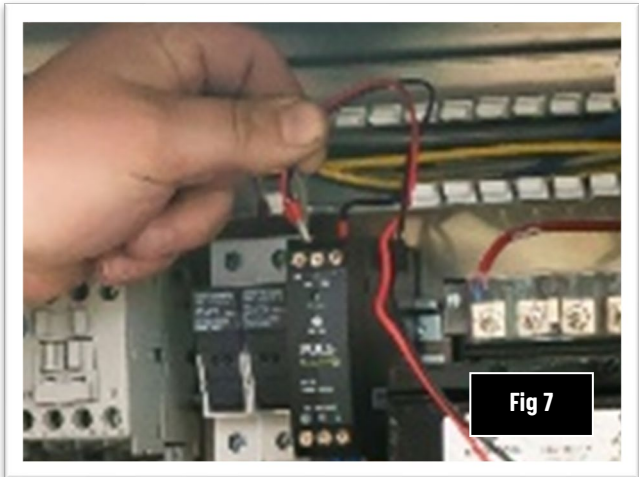


Fig 7

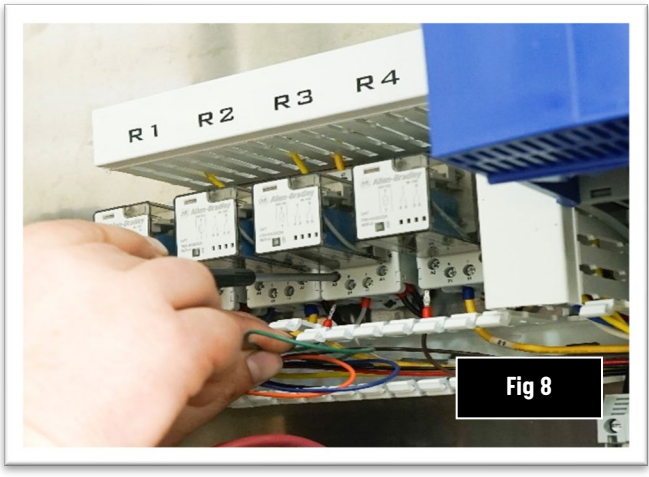


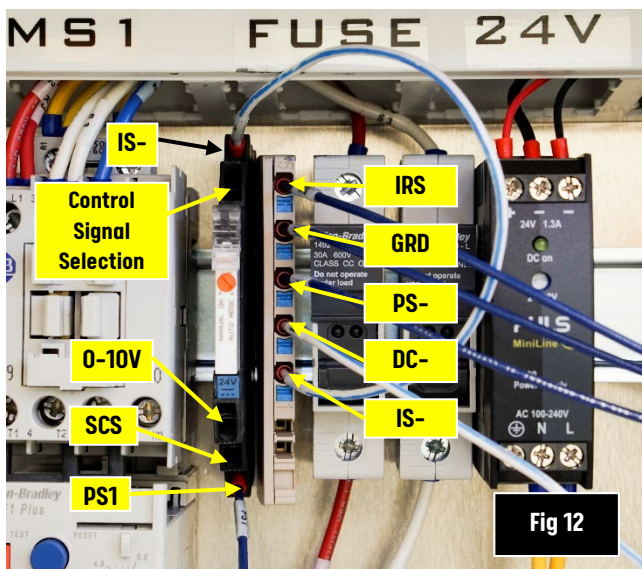
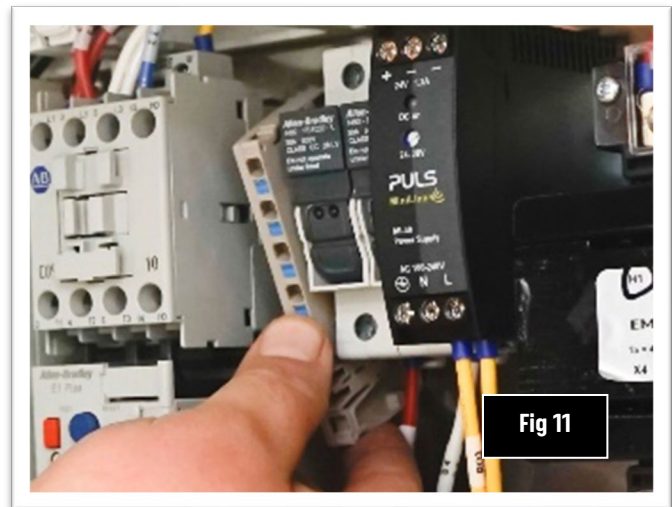
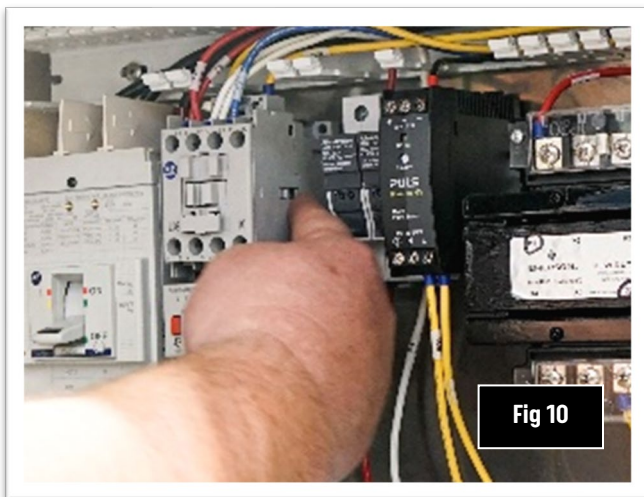
Fig 8



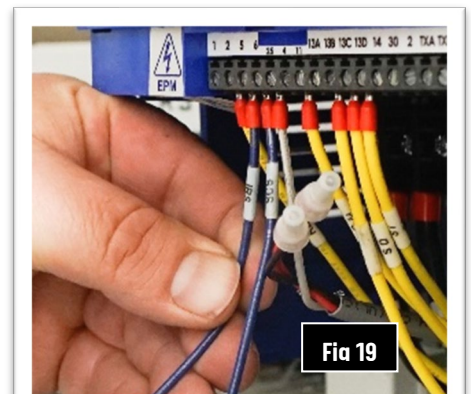
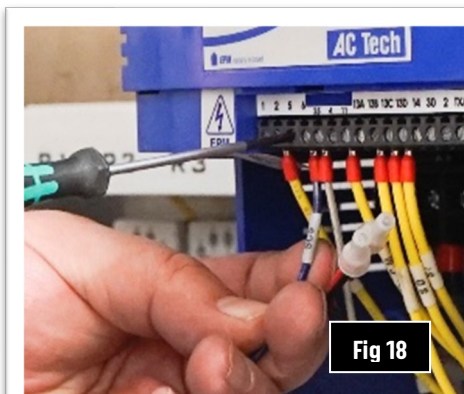
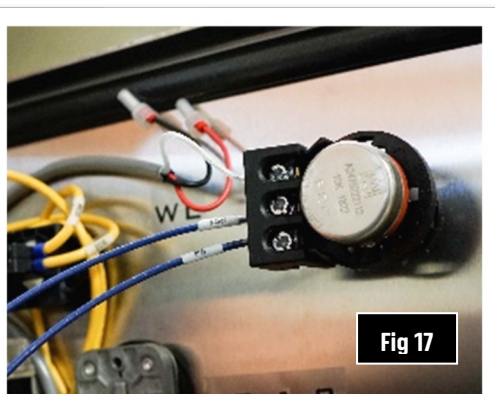
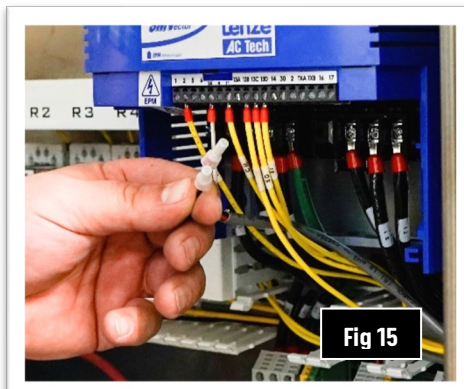
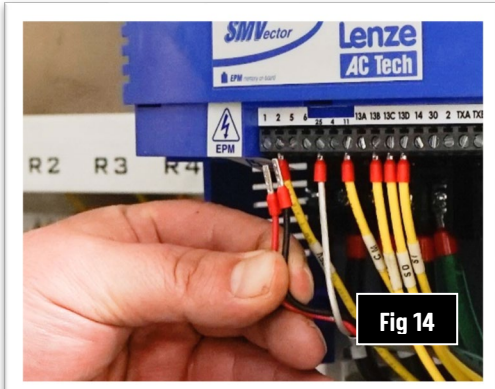
Fig 9

Preparing the Cabinet for the New Remote:

- On the top DIN Rail make approximately .375" or 10mm of room by sliding the existing electrical components to one side. Fig 10
- Install the supplied 0-10V Relay Block and DC Terminal Block onto the DIN rail in the location the space was made. Fig 11
- Install the included white/blue stripe wire labeled IS- from the terminal marked A2- on the 0-10V Remote Relay Block to a terminal on the DC Terminal Block. Fig 12
- Install included white/blue stripe wire labeled DC- from the DC Power Supply terminal marked (-), same terminal that the black wire from the old remote was removed from, to a terminal on the DC Terminal Block. Fig 12
- Remove the cover on the inverter drive exposing the terminal strip. Fig 13

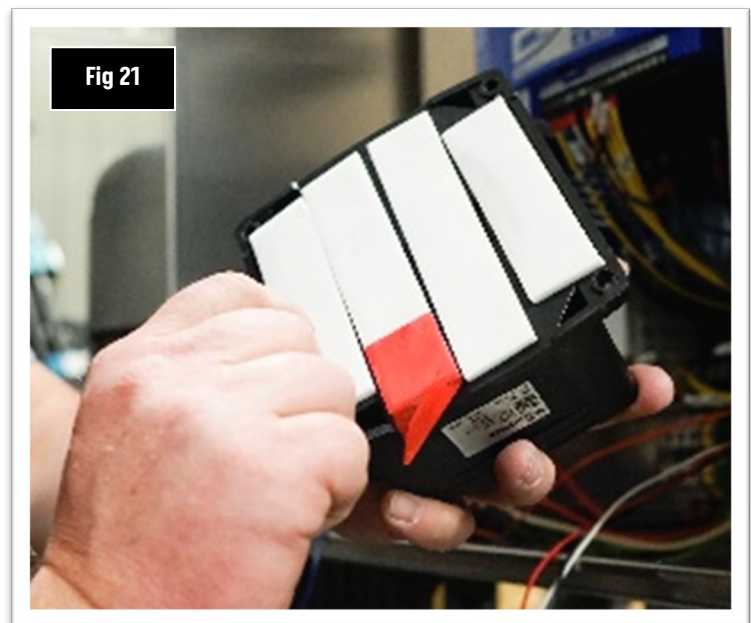


- Remove the wires from terminal location 2 and 5. Fig 14
- Once these wires are removed install wire caps on the wire ends and crimp on. Fig 15
- On the door of the cabinet remove the same two color of wires from the Potentiometer labeled VR1 that were removed from terminals 2 and 5 on the inverter drive. Fig 16
- IE if terminal 2 and 5 were red and black wires, remove the red and black wires from the potentiometer VR1 on the door of the cabinet. Cap these wire ends as well. Fig 17
- Install the included Blue wire labeled PS1 into the center terminal of the potentiometer VR1. Fig 17
- Install the included Blue wire labeled PS- into the remaining blank terminal on the potentiometer VR1. Fig 17
- Route the wire PS- into the cabinet and install into the DC Terminal Block. Fig 12
- Route wire PS1 into the cabinet and install into the 0-10V Remote Relay Block at terminal 12. Fig 12
- Install included Blue Wire SCS into the inverter at terminal 5. Fig 18
- Install included Blue Wire IRS into the inverter at terminal 2. Fig 19
- Route both of these wires through the wire gutter and install the opposite end of wire IRS into the DC terminal block and the opposite end of wire SCS into terminal 11 of the 0-10V Remote Relay Block. Fig 12

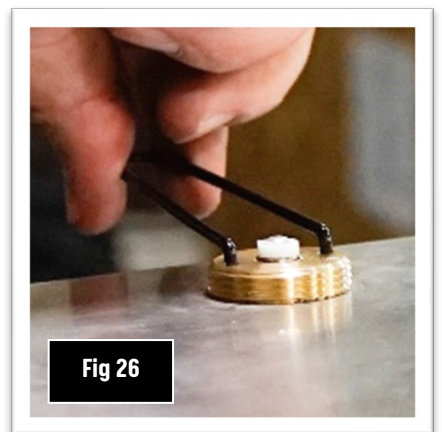
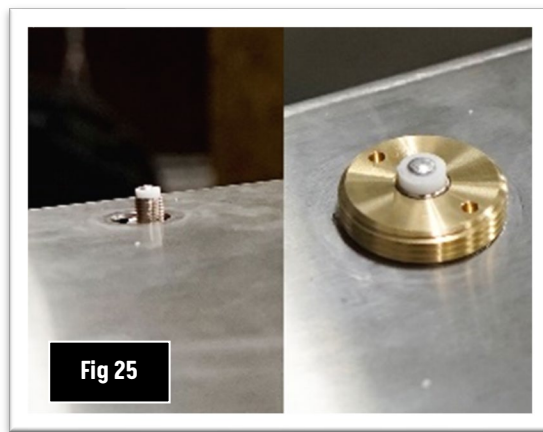
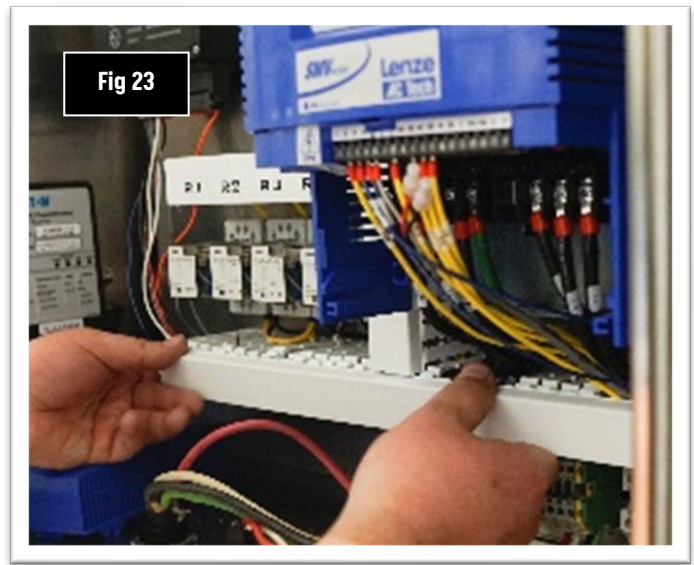


Installing the New Remote:

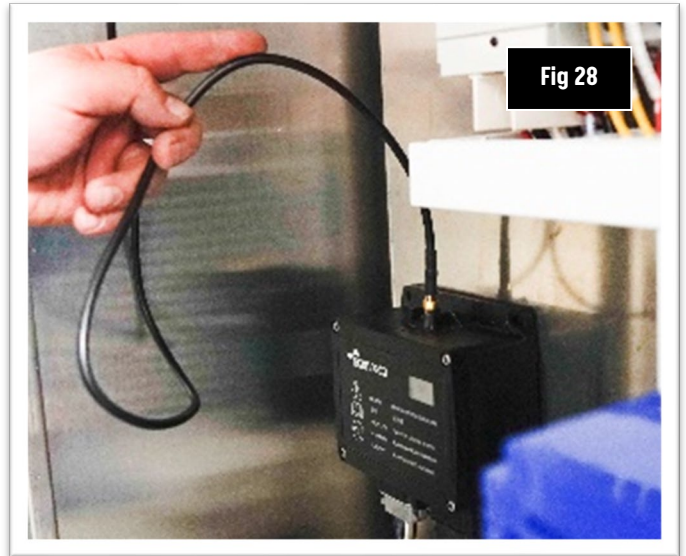
- The New Scanreco remote system has 2 wiring harnesses. The first consists of a single wire. This wire is Red/White Stripe and is labeled “Speed Voltage Output”. Install this wire into terminal 14 on the 0-10V Remote Relay Block.
- In the second wire harness, attach the red wire, labeled “Supply Power”, to the (+) terminal on the DC power supply. Fig 12
- Cap wires labeled Speed up and Speed down. Tuck into gutter
- Connect the black wire labeled “Ground” to the terminal of the DC- terminal black.
- Connect the black/white stripe wire labeled “Control Signal Selection” to the A1+ terminal of the 0-10V Remote Relay Block.
- Connect the Brown wire labeled “Fish Pump On” to the A2 terminal on the original relay block labeled “R4” in the cabinet. Fig 20
- Connect the Blue wire labeled “Prime Pump On” to the A2 terminal on the original relay block labeled “R3” in the cabinet. Fig 21
- Remove the film from the mounting tape on the back of the new receiver box. Be sure to clean surfaces prior to installation with alcohol or acetone prior to install. The new receiver box should be installed inside the cabinet on the left hand side below the old receiver if it has been left mounted or if the old receiver was removed then anywhere that is clear in that area. Do not mount to the inside top surface. Once a location to mount the receiver is found press and hold the receiver against the surface for a minimum of 30 second applying moderate pressure. This bonding tape is acrylic and requires pressure and time to initiate the bond. It will fully set in 48 hrs. Fig 21



- Once mounted, plug the wiring harness ends into the receiver box. Each plug is keyed so they only insert into the correct plug location. Fig 22
- Once complete tuck and route wiring into the gutter system and reinstall the covers to their correct location. For the wires running to the potentiometer on the door unwrap the wire loom and install the new wiring into this bundle. Fig 23
- Remove the antenna wire and post, gasket and brass retaining nut from the package.
- Apply a small amount of electrical grease to the gasket and install it into the groove on the bottom of the retaining nut. Fig 24
- From the inside of the electrical cabinet insert the post of the new antenna cable assembly into the existing antenna hole on the top of the electrical cabinet and while holding the pin and cable assembly firmly screw on the retaining nut from the top side. Do note that the old hole is larger than required for the new antenna so be sure to center the new assembly in the hole when tightening the retaining nut. Once hand tight use the supplied spanner spring wrench to tighten the nut. Fig 25 & 26



- Once tight install the antenna assembly washer over the retainer nut and install the antenna assembly. Fig 27
- Route the cable internally to the remote receiver. And attach the cable on the antenna lug. Fig 28



Re apply power to the system.

For SMV Inverter Drives change the following parameters.

- P121 = 0
- P122 = 0
- P123 = 0

Testing:

- With power on to the system make sure the door remote selector switch is set to on.
- Verify the E-Stop button on the hand held transmitter is not depressed.
- Press and hold the on button on the bottom of the hand held remote.
- The hand held unit will power up and the green indicator light on the new relay installed will turn on.
- Check functions of the pump.

