

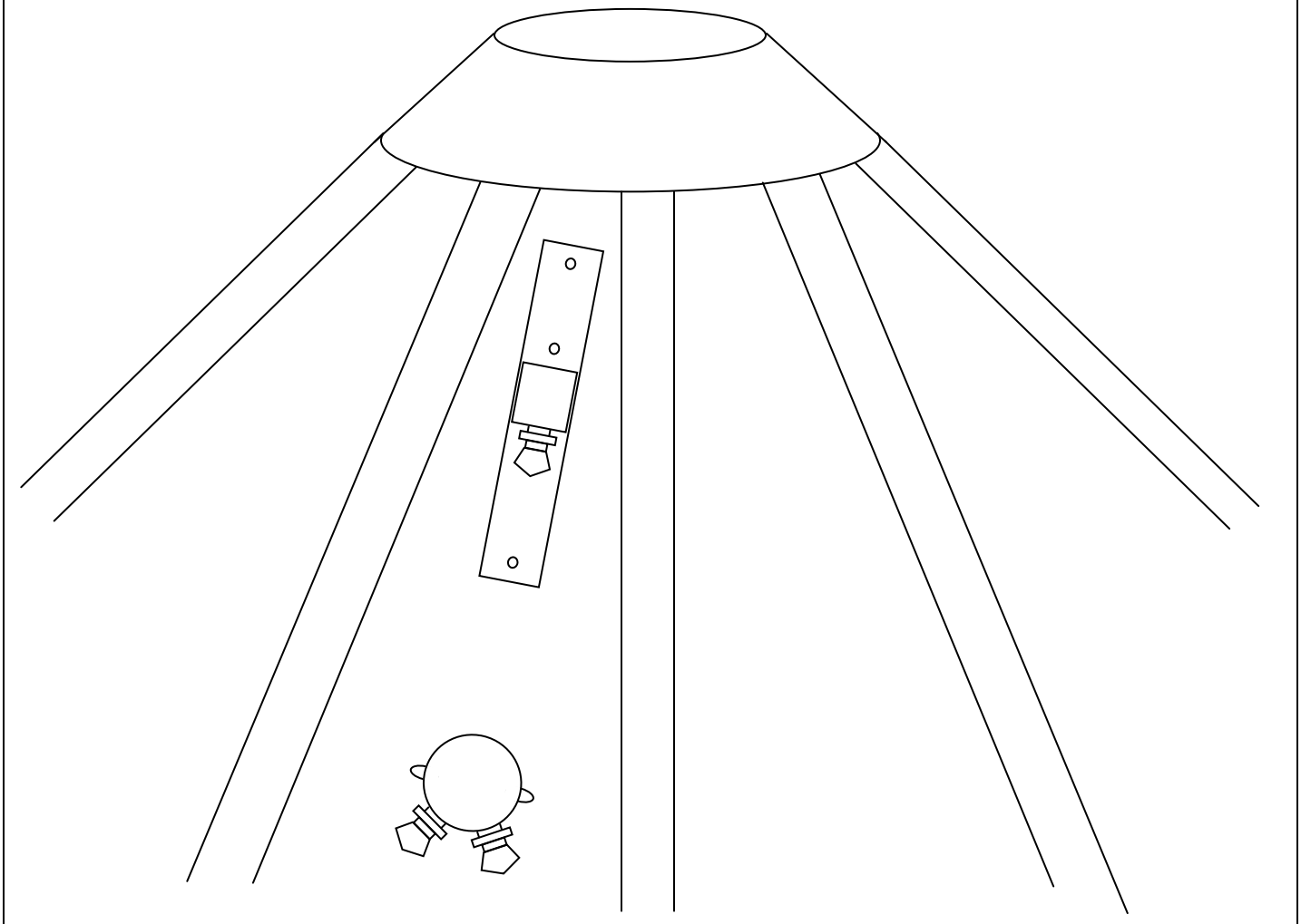
Bin Controller Installation Instructions

Mount Roof Junction Box

1. Bore a 1" hole in bin roof.
2. Apply a .25" bead of silicone sealant to the bottom of the Roof Junction Box around the tube.
3. Insert Roof Junction Box tube into hole. Orient the Roof Junction Box as shown in Fig 1. Position the Roof Junction Box as far below the Temp Cable as is practical.
4. Secure Roof Junction Box to roof using supplied #12 X 1" SS self drilling screws.
5. Insert Outdoor Rated CAT5 into Roof Junction Box . Cable should extend approx 6" into the box.
6. Terminate cable as per Fig 7 .
7. Insert connector into Roof Junction Box RJ45 jack(J1).
8. Tighten Roof Junction Box cable gland onto the cable, making sure the cable gland seals against the outer jacket of the cable. Do not over-tighten.
9. If Temp Cable is connected, install gasket and cover on Roof Junction Box.
10. Route cable to Bin Controller.
11. Secure cable to roof and bin as needed using supplied cable clips and #10 X .625" SS self drilling screws.

FIG 1

Temp Cable and Roof Junction Box



Bin Controller Installation Instructions

Mount Temp Cable

1. Bore a 1.25" hole in bin roof. Locate the cable as close to the top of the bin as possible.
2. Feed Temp Cable into hole until Temp Cable mounting bracket is flush with roof. Orient the mounting bracket as shown in Fig 1.
3. Secure mounting bracket using supplied .25" X 1.25" SS self drilling screws. See Fig 2 for location of mounting holes.
4. Use expanding polyurethane foam to seal the gap between the mounting bracket and the roof where the Temp Cable enters the bin. A fill hole is provided for this purpose, as shown in Fig 2.
5. Remove 6" of outer jacket from the Temp Cable pigtail and strip approx. .25" of insulation from the blue pair of wires. The other pairs may be cut off if desired.
6. Insert stripped end of cable into the Roof Junction Box and terminate to circuit board as per Fig 3.
7. Secure Temp Cable pigtail to roof as needed using supplied cable clips and #10 X .625" SS self drilling screws.
8. Tighten Roof Junction Box cable gland onto the pigtail, making sure that the cable gland seals against the outer jacket of the cable. Do not over-tighten.
9. If Bin Controller Cable is connected, install gasket and cover on Roof Junction Box.

FIG 2

Temp Cable Mounting Bracket

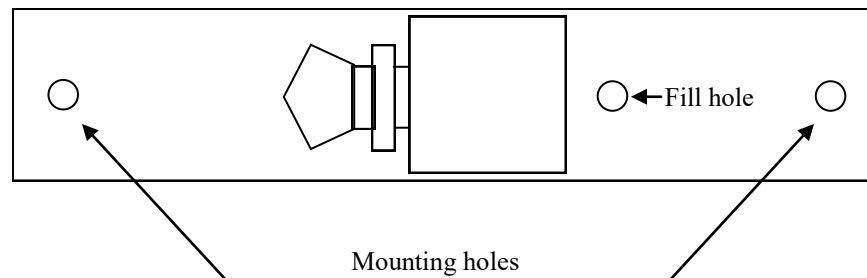
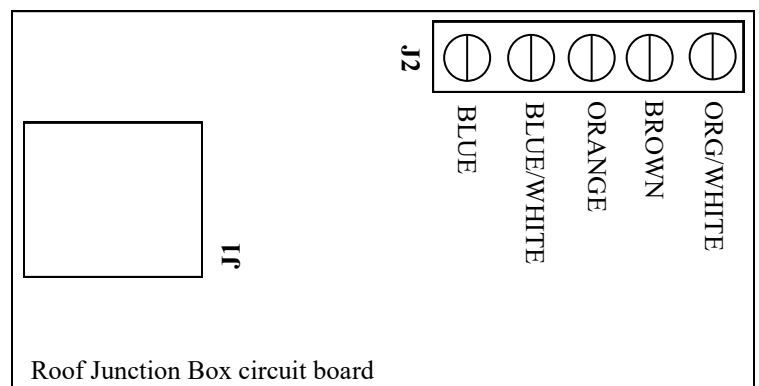


FIG 3

Temp Cable Connection

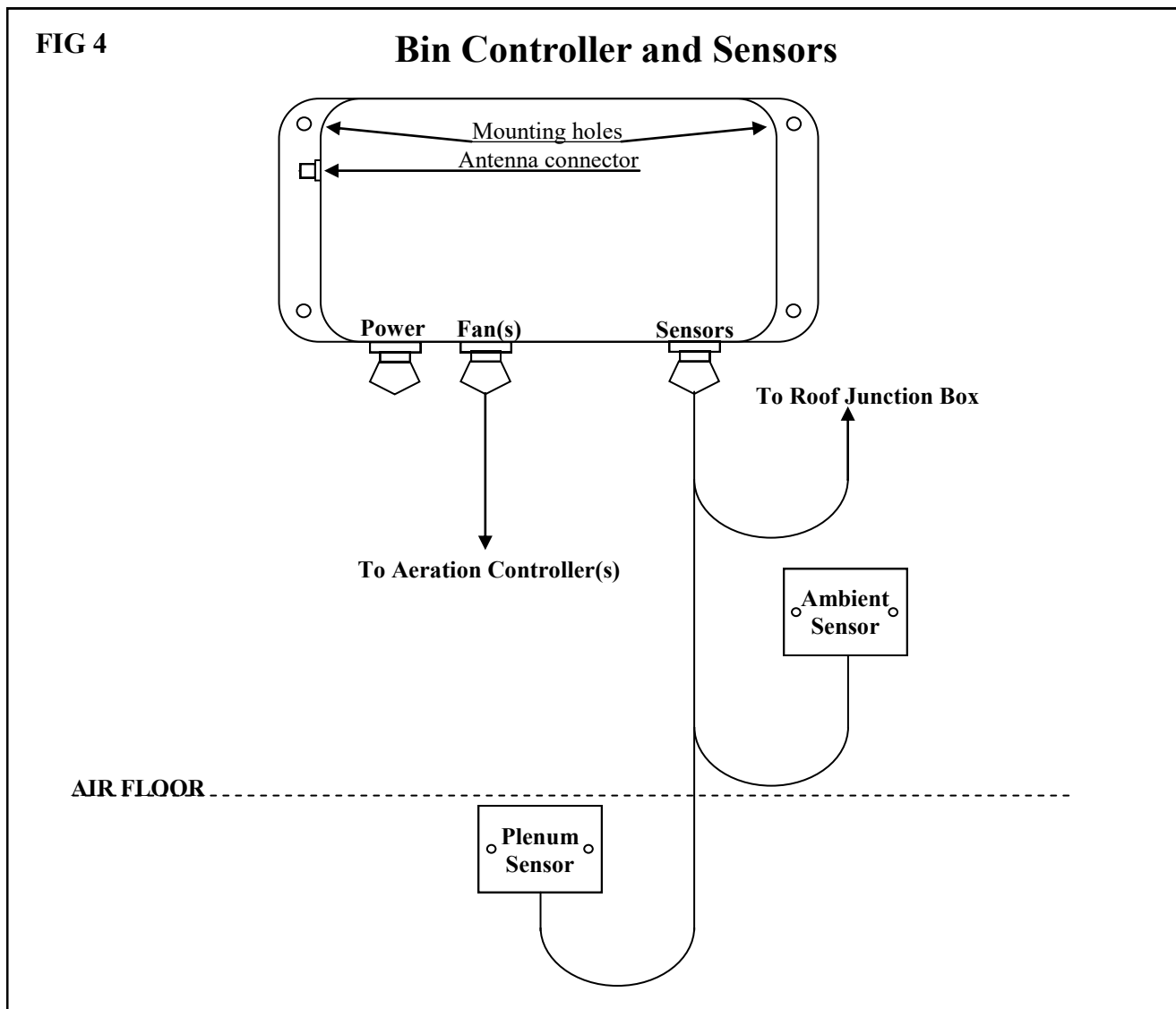
1. Insert stripped end of blue and blue/white wires into corresponding terminal on terminal block (J2).
2. Tighten to between .22Nm and .25 Nm (5-7 in-lbs) using a 2.5mm screwdriver.



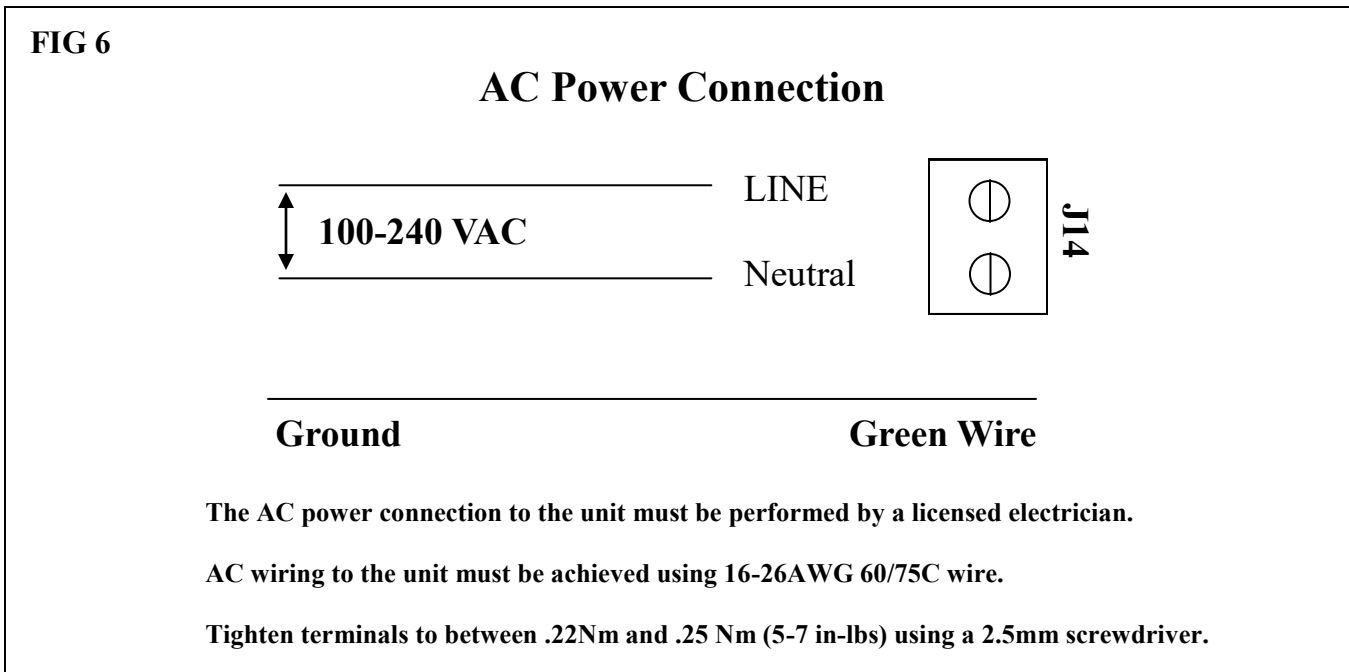
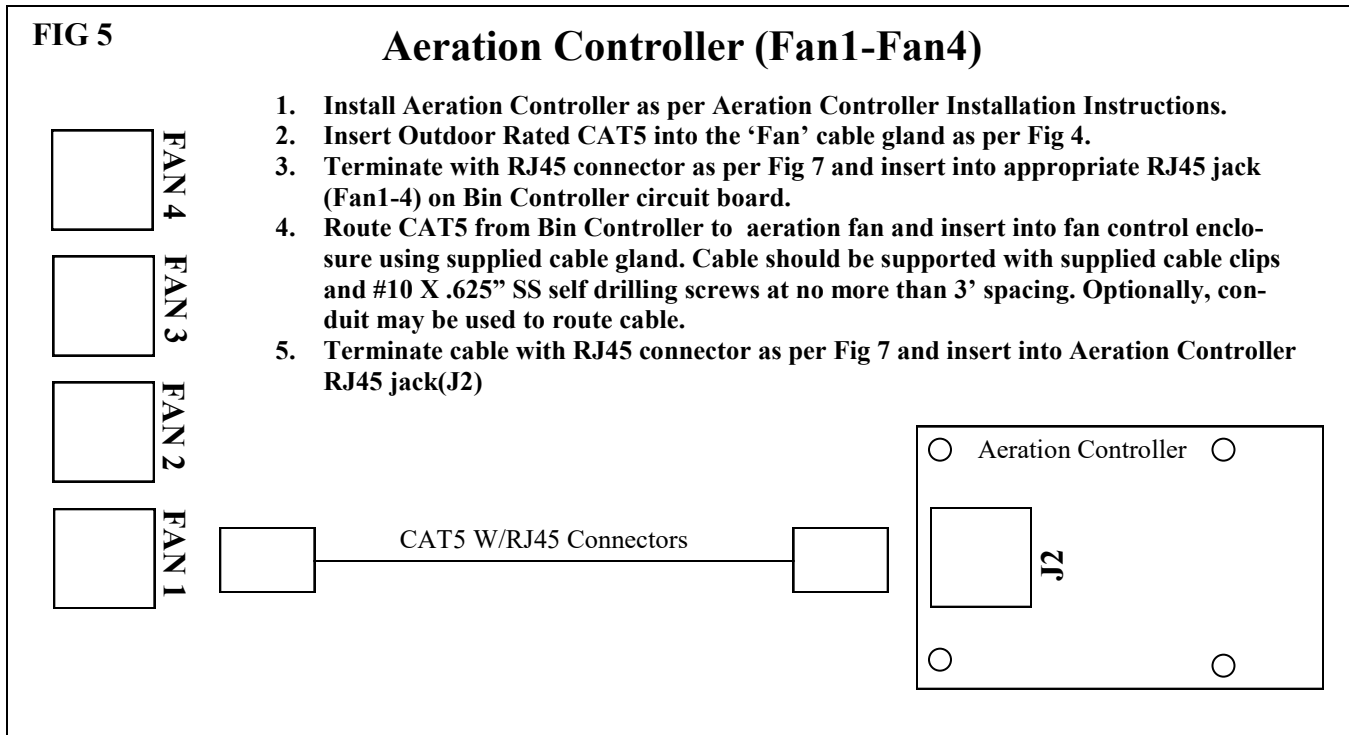
Bin Controller Installation Instructions

Mount Bin Controller & Sensors

1. Attach Bin Controller to side of bin using supplied #12 X 1" SS self drilling screws as per Fig 4.
2. Screw supplied antenna onto antenna connector.
3. Attach Ambient Sensor to side of bin using supplied #12 X 3" SS self drilling screws. Orient the Ambient Sensor as shown in Fig 4. See Fig. 8 for included Ambient Shield installation.
4. Bore a .875" hole in side of bin below air floor.
5. Apply a .25" bead of silicone sealant to the Plenum Sensor around the tube.
6. Insert Plenum Sensor tube into hole and secure Plenum Sensor using supplied #12 X 2" SS self drilling screws. Orient the Plenum Sensor as shown in Fig 4.
7. Insert Ambient Sensor, Plenum Sensor and Roof Junction Box cables into the 'Sensors' cable gland as per Fig 4. Approx. 8" of cable should extend into the enclosure.
8. Terminate Sensor/Roof cables with RJ45 connector as per Fig 7 and plug into corresponding RJ45 jacks on Bin Controller circuit board.
9. Clamp the included ferrite core over the roof cable inside the Bin Controller enclosure.
10. Secure cables to bin as needed using supplied cable clips and #10 X .625" SS self drilling screws.
11. Connect installed Aeration controllers to the Bin Controller as per Fig 5.
12. Connect power to the Bin Controller as per Fig 6.



Bin Controller Installation Instructions

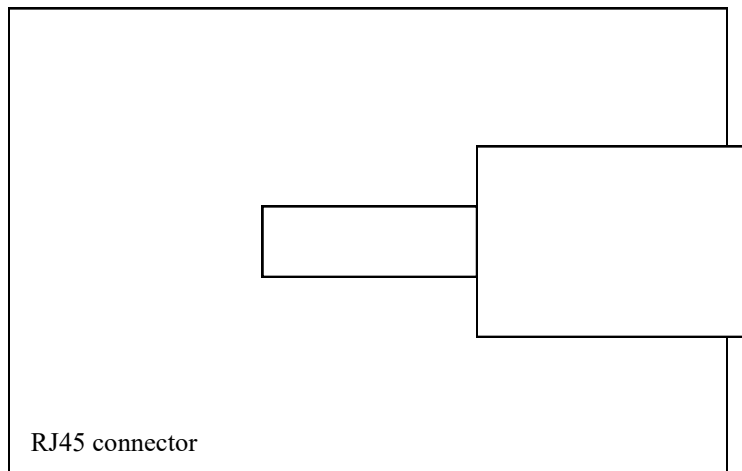
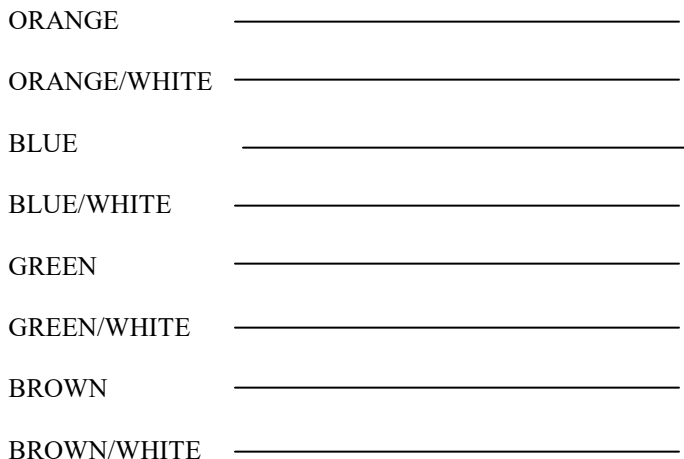


Bin Controller Installation Instructions

FIG 7

CAT5 Cable Termination

1. Remove approx. 1" of outer jacket from cable.
2. Un-twist and straighten all pairs of wires.
3. Orient wires and insert into supplied RJ45 crimp connector as shown.
4. Crimp connector using appropriate RJ45 crimping tool.



Orient RJ45 connector with locking tab facing towards you as shown.

Ambient Shield Installation

