

### 3.127 MOXIE RF Antenna Failure (3.100 HSS)

#### OBJECTIVE:

To replace the antenna on the MOXIE Unit.

#### EQUIPMENT:

MOXIE Kit  
Phillips head screwdriver  
Magnetic dish  
Gloves  
Orange cones 2

#### REFERENCES:

Serial Number Spreadsheet

#### 1. PREPARATION

- 1.1 Check Circuit Breaker Panel (CBP) and verify MOXIE power light is active. (See Figure 1)

LOC – L1EALOV



Figure 1

#### Note

If MOXIE circuit breaker is tripped (light inactive) Contact MCC before resetting.

- 1.2 Locate and pull up floor panel in location 1G setting it aside. (See Figure 2)



Figure 2

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- 1.3 Disconnect the RF board data cable. (See Figure 3). You may need to use a screwdriver.

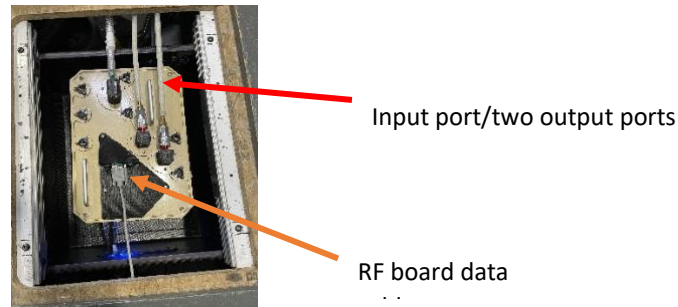


Figure 3

- 1.4 Disconnect the input port and the two output ports located on top of the unit. (See Figure 3). They can slide back out of the way for convenience.
- 1.5 Disconnect Input Port by pressing white button on hose fitting.
- 1.6 Grab the handles and lift the MOXIE Payload out onto the side of the compartment adjacent to the hole. (See Figures 4 and 5)

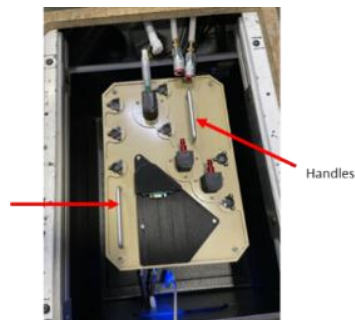


Figure 4

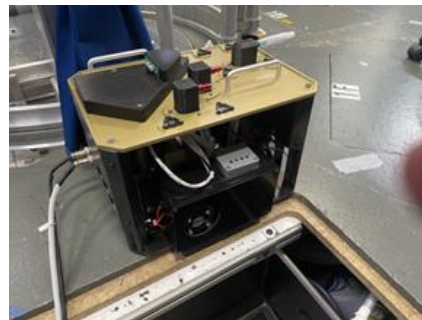


Figure 5

- 1.7 Place two (2) orange cones either side of the opening. (See Figure 6)

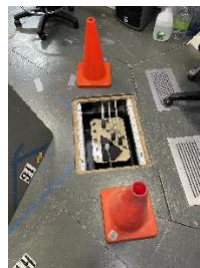


Figure 6

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- 1.8 Check the lights on the control panel to determine RF receiver has failed.  
(Figure 7).



Figure 7

- 1.9 Go to the circuit board control panel above the workstation (GMWS) table.
- 1.10 Locate the MOXIE cb button and disable MOXIE using the Circuit Breaker Panel  
(See Figure 8)



Figure 8

- 1.11 Return to the Moxie unit after circuit breaker has been disabled.
- 1.12 Disconnect the Power and control cables plugged into the side panel near the lights on MOXIE. (See Figure 9)



Figure 9

- 1.13 Retrieve the orange cones and place them on either side of the compartment Moxie was removed from. (See Figure 10)

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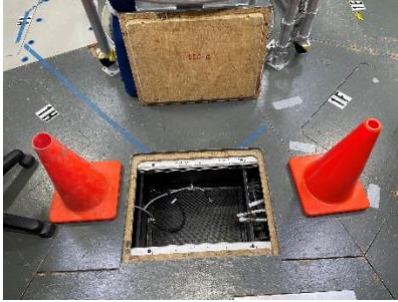


Figure 10

## 2. ANNTENA REPLACEMENT

- 2.1 Move Moxie to the GMWS worktable on L1.
- 2.2 Using a flat head screwdriver remove the 3 screws holding the triangular shaped cover to the plate. (See Figure 11) Place the screws in the magnetic dish. (See Figure 12)

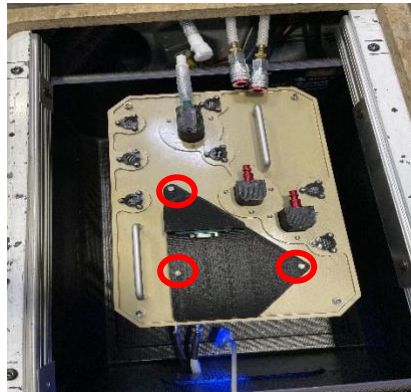


Figure 11



Figure12

- 2.3 Slowly remove the cover and disconnect the wires from the circuit board. (See Figure 13)

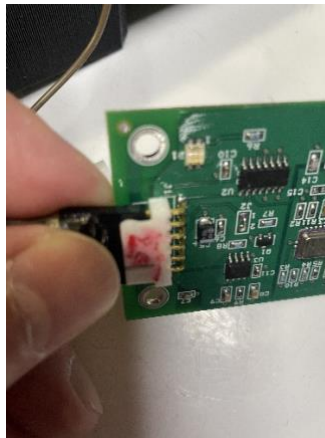


Figure 13

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2.4 Slide the circuit board out to the right. (See Figure 14)

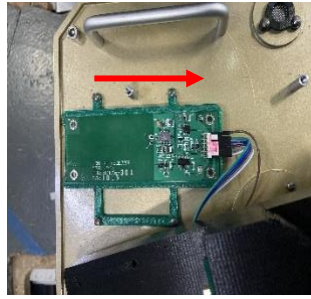


Figure 14

2.5 Record the serial number of the RF circuit board removed in the spread sheet.

2.6 Insert the new circuit board by sliding it in through the same location. (See Figure 15)

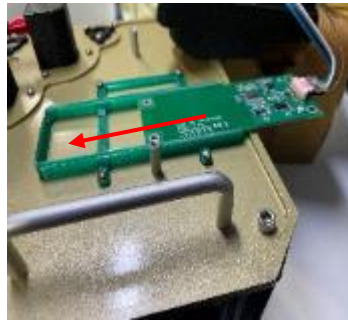


Figure 15

2.7 Hold the cover near the plate while reconnecting the wires. (See Figure 16)

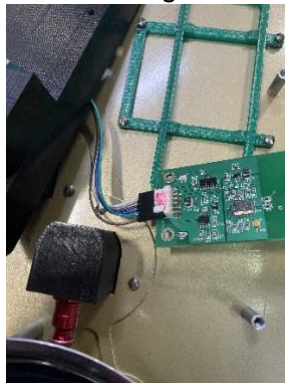


Figure 16

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2.8 Screw down the cover with the three flathead screws. (See Figure 17)



Figure 17

2.9 Return to the circuit breaker panel and re-enable MOXIE. (See Figure 18)



Figure 18

2.10 Grab the handles and return the MOXIE unit to the LG compartment. (See Figure 19)

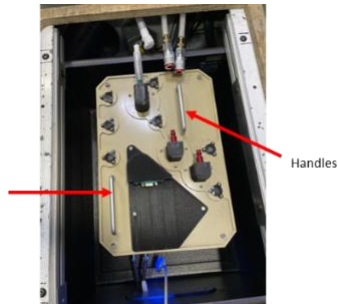


Figure 19

2.11 Re-connect the input port and the two output ports. (See Figure 20)

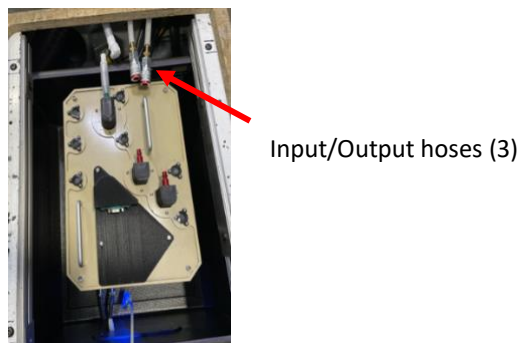


Figure 20



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- 2.12 Reconnect the RF board data cable. (See Figure 21)

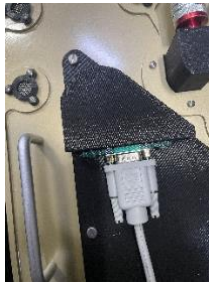


Figure 21

- 2.13 Reconnect the Power and Data cables. Be sure to line up key on panel connectors to cables. (See Figure 22)



Figure 22

- 2.14 Check to see if the lights on the Moxie control panel are on to verify that the procedure has corrected the problem. (See Figure 23)



Figure 23

- 2.15 Replace the floor panel in location 1G. (See Figure 24)

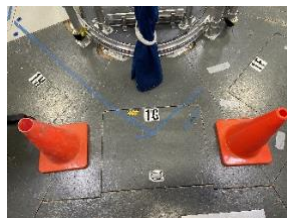


Figure 24

- 2.16 Stow all equipment