

3.128 MOXIE: Fan Failure

(3. HSS/Virtual Assistant)

Objective: To diagnose and repair the MOXIE unit by replacing the fan.

Equipment:

Flat head screwdriver

Phillips head screwdriver

Magnetic dish

Gloves

2x Orange cones

References:

Serial Number Tracking Spreadsheet

1. DISCOVERY OF PROBLEM

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 on L1 and set aside.

1.3 Place two (2) orange cones on either side of the opening. (See Figure 2)



Figure 2

1.4 Disconnect the RF Board data cable using the appropriate screwdriver. (See Figure 3)

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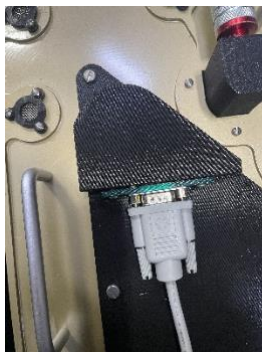
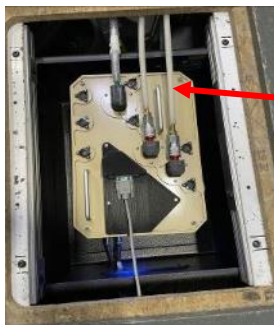


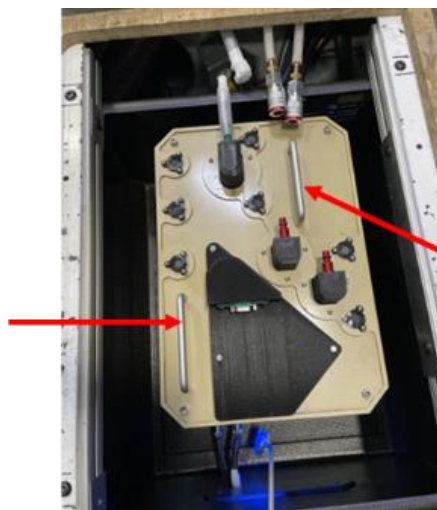
Figure 3

1.5 Disconnect the input port and the two (2) output ports located on the top of the unit.
(See Figure 4)



Input port/two output ports

1.6 Grab the handles and lift the MOXIE Payload out onto the side of the compartment adjacent to the hole. (See Figure 5) (See X on floor for placement)



Handles

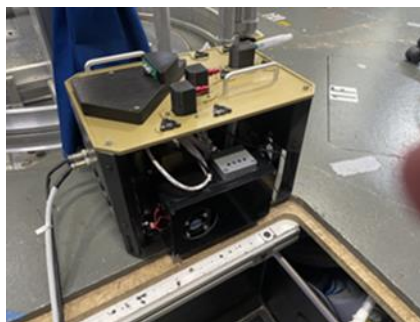


Figure 5

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1.7 Check the lights on the control panel to determine which subsystem is having a problem. (See Figure 6)



Figure 6

1.8 Locate the Circuit Breaker Control Panel above the workstation. (See Figure 7)

1.9 Locate the MOXIE button and disable MOXIE by pushing the button on the Circuit Breaker Panel.



Figure 7

1.10 Return to the MOXIE unit after the MOXIE button on the Circuit Breaker Control Panel has been disabled.

1.11 Disconnect the power and control cables plugged into the side panel near the lights on MOXIE. (See Figure 8)



Figure 8

2: FAN REPLACEMENT

2.1 Move MOXIE to the mechanical worktable on L1.

2.2 Remove the two (2) nuts holding the fan in place. (See Figure 9)

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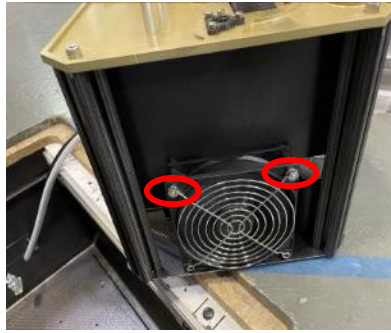


Figure 9

2.3 Place nuts in magnetic dish.

2.4 Take the metal fan cover off, set aside, and slide the fan out. (See Figure 10)



Figure 10

2.5 Disconnect fan power connector. (See Figure 11)

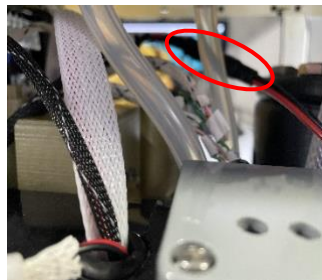


Figure 11

2.6 Retrieve a replacement fan from the Moxie kit. (See Figure 12)



Figure 12

2.7 Record the removed fan number and the new fan number in the Serial Number Tracking Spreadsheet.

2.8 Slide in the replacement fan. (See Figure 13)

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Figure 13

2.9 Replace the metal fan cover. (See Figure 14)



Figure 14

2.10 Retrieve the nuts, put them in place, and finger tighten.

2.11 Plug back in the fan power cable connector. (See Figure 15)

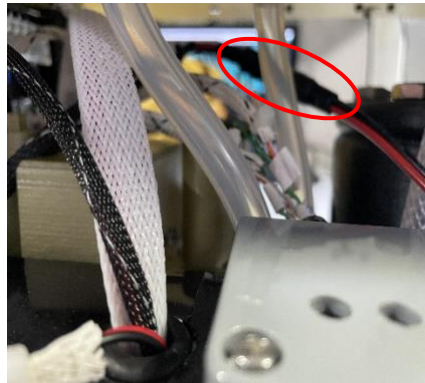


Figure 15

2.12 Return to the Circuit Breaker Control Panel and re-enable MOXIE.

2.13 Grab the handles and return the MOXIE Payload into the compartment. (See Figure 16)

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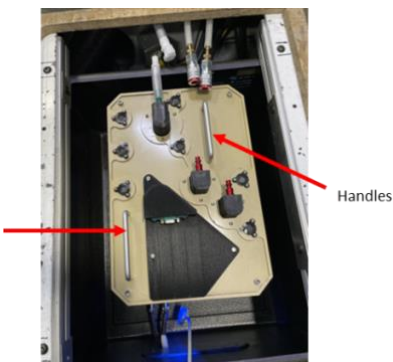


Figure 16

2.14 Reconnect the Power and Data cables on the side. Be sure to line up key on panel connectors to cables. (See Figure 17)



Figure 17

2.15 Re-connect the input port and the two (2) output ports. (See Figure 18)

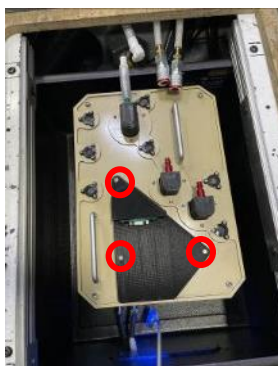


Figure 18

2.16 Re-connect the RF board data cable. (See Figure 19)

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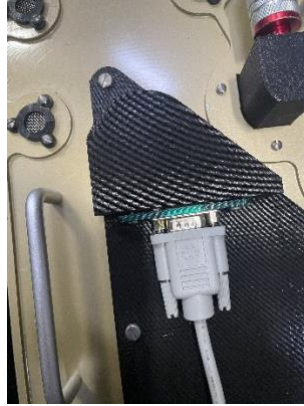


Figure 19

2.17 Check to see if the lights on the MOXIE control panel are on to verify that the procedure has corrected the problem. (See Figure 20)



Figure 20

2.18 Replace the floor panel in location 1G. (See Figure 21)

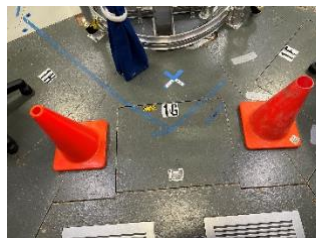


Figure 21

2.19 Stow all equipment.