

3.129 Moxie: ECM 1 or 2 Failure
03. (HSS/Virtual Assistant)

OBJECTIVE:

To change out either ECM 1 or ECM 2 successfully.

EQUIPMENT:

Flat head screwdriver
Phillips head screwdriver
Magnetic dish
Gloves
2x Orange cones

REFERENCES:

Serial Number Tracking Spreadsheet

1. PREPARATIONS

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: Panel Removed

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

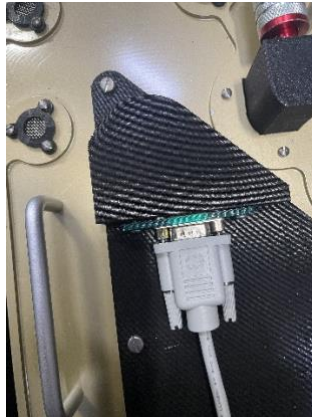
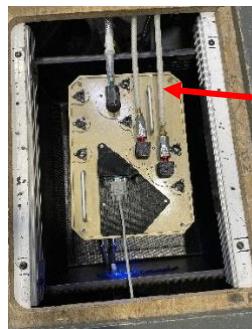


Figure 3

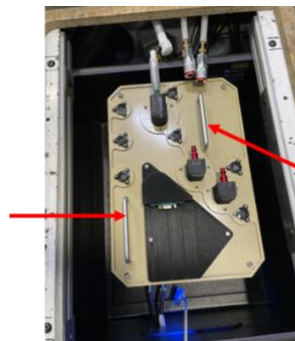
1.4 Disconnect the input port and the two output ports located on top of the unit. After disconnecting the cables can be slid back for convenience. (See Figure 4)



Input port/two output ports

Figure 4

1.5 Grab the handles and lift the MOXIE Payload out onto the side of the compartment adjacent to the hole. (See Figure 5)



Handles

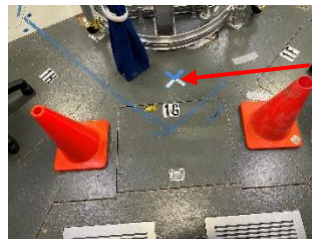


Figure 5

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- 1.6 Check the lights on the control panel to determine which subsystem has failed. (See Figure 6)



Figure 6

- 1.7 Go to the circuit breaker control panel above the workstation table. (See Figure 7)



Figure 7

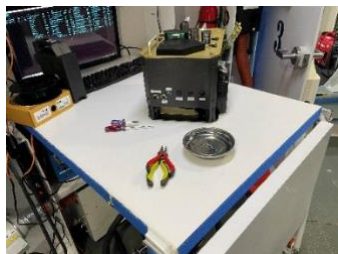
- 1.8 Locate the Moxie button and disable MOXIE using the Circuit breaker Panel. (See Figure 7)
1.9 Return to the Moxie unit after circuit breaker has been disabled.
1.10 Disconnect the Power and control cables plugged into the side panel near the lights on MOXIE. (See Figure 8)



Figure 8

2. INSTALLING ECM

- 2.1 Move Moxie to move to the mechanical worktable on L1. (See Figure 9)



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Figure 9

- 2.2 Using a Phillips head screwdriver remove the side cover of the black box on MOXIE. (See Figure 10)

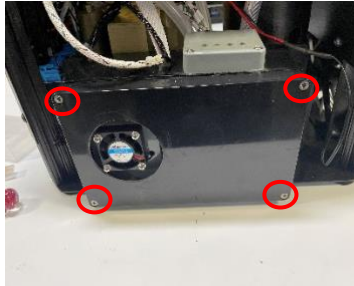


Figure 10

- 2.3 Place screws in magnetic dish.
2.4 Remove the ECM unit that needs replacing (this will require removal of one unit to get to another unit). (See Figure 11)

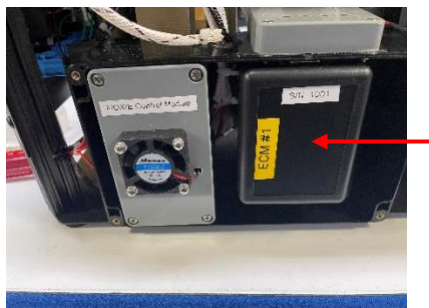


Figure 11

- 2.5 Retrieve an ECM unit (1/2) from the Moxie kit. (See Figure 12)



Figure 12

- 2.6 Replace the ECM unit with a new one by tilting unit back for easy ECM connector alignment and move MOXIE back to the edge of the L1G location.
2.7 Reconnect the Power and Control cables by plugging them into the side panel near the lights on MOXIE. Be sure to line up key on panel connectors to cables. (See Figure 13)

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Figure 13

2.8 Re-enable MOXIE using the Circuit Breaker Panel to verify ECM unit connection by checking that the lights (4) turn on. (See Figure 14)



Figure 14

2.9 Reconnect the side cover of the black box by using the 4 screws (don't tighten the screws all the way, a small gap should be visible for airflow purposes). (See Figure 15)

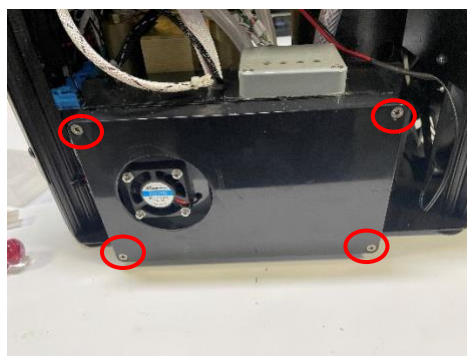
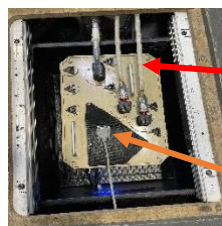


Figure 15

2.10 Grab the handles and return the MOXIE Payload into the compartment.

2.11 Re-connect the input port and the two output ports. (See Figure 16)



Input port/two output ports

RF board data cable
Figure 16

2.12 Reconnect the RF board data cable. (See Figure 16)

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- 2.13 Check to see if the lights on the Moxie control panel are still on. (See Figure 17)

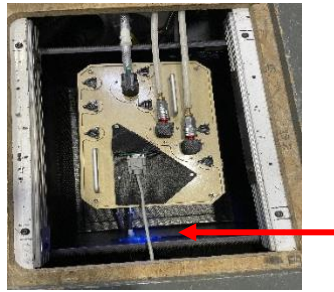


Figure 17

- 2.14 Replace the floor panel in location L1G. (See Figure 18)

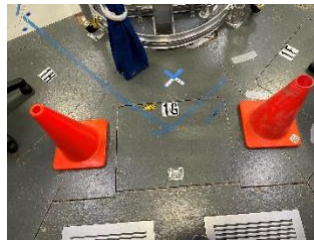


Figure 18

- 2.15 Stow all equipment.