# Slam Stick Training Guide

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POC Info:
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Version Control:

<table>
<thead>
<tr>
<th>Version Number</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1/13/2017</td>
<td>Initial release</td>
</tr>
<tr>
<td>1.1</td>
<td>2/09/2017</td>
<td>Update to Squadron Shared Folder</td>
</tr>
</tbody>
</table>
| 1.2            | 2/10/2017  | 1. Update to Log Book information  
2. Update to running of Slam Stick Lab View Software  
3. Added initial setup of PEMA |
| 1.3            | 4/19/2017  | Update shared directory and POC info and minor changes to improve readability |
| 1.4            | 5/10/2017  | Update POC info, addition of Slam Stick-C, additional admin updates |
| 1.5            | 5/22/2017  | Addition of FAME Integration |
| 1.6            | 7/20/2017  | Updated FAME Integration  
Added config.cfg file and folder set up for Slam Stick-C, Added “NDDS“ server location. |
| 1.7            | 04/02/2018 | Updated to include FAME 17.3 Slam Stick report viewing, reset instructions, IPB, Dock and PEMA-Dock Assembly instructions |
| 1.8            | 06/28/2018 | Updated IPB and Assembly of Slam Stick Docks |
Introduction:
1. This training guide is meant to provide Maintainers and Aircrew with a process for collecting Slam Stick pressure flight data, to assist with data collection for Physiological Events (PE) and to provide a tool for maintainers to assist with determining cabin pressure system health.
2. This guide also provides information relating to; Initial Slam Stick and PEMA setup, Maintenance and Aircrew responsibilities, Guidance for basic Slam Stick operation and troubleshooting, Illustrated Parts Breakdown (IPB) and assembly of Dock Assembly (charging station)/PEMA-Dock Assembly instructions.

**Slam Stick has been integrated into FAME as of release 17.1. Please refer to the “FAME 17.1 User Guide” or later for information. Search for “Slam Stick” in the “User Guide” to obtain useful information pertaining to Slam Stick integration into FAME.**

3. The F/A-18 FST Slam Stick Coordinator mentioned in this guide will interface with Maintainers and Aircrew to assist with recording of cockpit cabin pressure data. This data will be used by engineering to assess the cockpit cabin pressure system health on F/A-18 aircraft and also used to support Medical in the event of a PE. This training guide is broken down into eight (8) sections: Introduction, PreOps, Maintenance, Aircrew, Slam Stick Reports, Troubleshooting, IPB, and Assembly of Dock Assembly and PEMA-Dock Assembly.

**IT IS ADVISED THE TRAINING GUIDE BE READ IN ITS ENTIRETY BY MAINTAINERS, AIRCREW, OR ANYONE WHO WILL BE INTERFACING WITH SLAM STICK.**

4. Follow CNAF and NSC guidance whenever a suspected PE event has occurred.
5. Requests for FST analysis of Slam Stick data in order to aid in testing and troubleshooting recommendations for non-PE events (aircraft ECS cockpit pressure troubleshooting) shall be submitted to the TYCOM F/A-18 Class Desk via the appropriate type WING or MALS.
PreOPS:

Hardware Description:

**CAUTION**

Slam Stick is not authorized for use with NMCI computers. Do not plug the Slam Stick into an NMCI computer or other Non-Approved computers to charge the Slam Stick or to retrieve data. Plugging a Slam Stick into a Non-Approved computer may deactivate your computer account and/or computer.

**ONLY PEMA STRIPPING STATIONS COMPUTERS ARE AUTHORIZED FOR SLAM STICK USE**

1. **LED Indicator:** Reference Figure 1.
   a. 10 Hz Slam Stick, there are three LED indicators; green, red, and blue. The LEDs are used to communicate to the user the various operation modes of the Slam Stick.
   b. 1 Hz Slam Stick, there is one LED indicator with three possible color variations, red, yellow (amber), and green. The LED is used to communicate to the user the various operation modes of the Slam Stick.
2. **Button:** The Slam Stock button is used to initiate and end recordings, perform battery test, and to reset the Slam Stick.
3. **Micro USB Receptacle:** The USB receptacle is for a micro USB charging and to download data from the Slam Stick.
4. **Coordinate System Reference:** The coordinate system reference illustrates the axes directions of the device. For the purpose of this manual, coordinate system reference will not be used as the Slam Stick will be secured within the Aircrews flight suit pocket.
5. **Tie Down:** Ensures Slam Stick does not cause a FOD condition. For the purpose of this manual, the tie down will not be used as the Slam Stick will be secured within the Aircrews flight suit pocket.
6. **Mounting Holes:** as required, use 4-40 bolts to help align the device. The tie down slot is included to use with a zip tie or a string of some kind to tether the device to a nearby structure as a failsafe if it were to become
dislodged (FOD). For the purpose of this manual, the tie down and mounting holes will not be used as the Slam Stick will be secured within the Aircrews flight suit pocket.

7. All Slam Sticks P/Ns listed in this manual have been integrated into FAME 17.1 or subsequent. Users should see no difference in the use of the different versions of Slam Sticks except as noted in LED status indication and as depicted in FAME reports (1Hz verses 10Hz).
* 10-Hz Slam Stick provides additional resolution of pressure data during flight. Pressure data is recorded at 10-Hz. All Slam Sticks acquired by NAVAIR are now 10-Hz capable. 1-Hz Slam Stick reports became available with the release of FAME 17.1. 10-Hz Slam Stick became available for viewing in FAME 17.3 and subsequent FAME releases.

Figure 1- SLAM STICK (all other Slam Stick versions similar)
**LED Status Indication: 1-Hz Slam Stick**

### When Connected to Power

<table>
<thead>
<tr>
<th>LED</th>
<th>Battery Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Green LED]</td>
<td>Fully charged</td>
<td>Disconnect from power and use the device for data logging.</td>
</tr>
<tr>
<td>![Yellow LED]</td>
<td>Charging</td>
<td>Continue Charging</td>
</tr>
<tr>
<td>![Red LED]</td>
<td>Battery cannot be charged due to extreme temperature</td>
<td>Allow device to warm or cool to operating range (0 to 45 degrees Celsius). If LED indication persists, contact Slam Stick POC.</td>
</tr>
<tr>
<td>![Red LED]</td>
<td>Device not operating correctly or connected correctly.</td>
<td>Check connection, if problem persists contact Slam stick POC.</td>
</tr>
</tbody>
</table>

### During Battery Check

<table>
<thead>
<tr>
<th>LED</th>
<th>Battery Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Green LED]</td>
<td>Above 75%</td>
<td>The device should be capable to perform as desired.</td>
</tr>
<tr>
<td>![Yellow LED]</td>
<td>Between 20% and 75%</td>
<td>Device will work; but for reduced period. Charge if longer recording period is required.</td>
</tr>
<tr>
<td>![Red LED]</td>
<td>Below 20%</td>
<td>Charge the device before operation or storage.</td>
</tr>
<tr>
<td>![Green LED]</td>
<td>Battery is at 0%</td>
<td>Charge the device before operation or storage.</td>
</tr>
</tbody>
</table>

### During Operation

<table>
<thead>
<tr>
<th>LED</th>
<th>Blinking Mode</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Green LED] &gt; ![Green LED] &gt; ![Green LED]</td>
<td>Rapid blinking - Green</td>
<td>Device is recording. Battery level is above 75%</td>
<td>Allow to continue recording or press the button to end recording.</td>
</tr>
<tr>
<td>![Yellow LED] &gt; ![Yellow LED] &gt; ![Yellow LED]</td>
<td>Rapid blinking - Yellow</td>
<td>Device is recording. Battery level is below 75%</td>
<td>Allow to continue recording or press the button to end recording.</td>
</tr>
<tr>
<td>![Red LED] &gt; ![Red LED] &gt; ![Red LED]</td>
<td>Rapid blinking - Red</td>
<td>Device is recording. Battery level is below 20%</td>
<td>Allow to continue recording or press the button to end recording.</td>
</tr>
<tr>
<td>![Red LED]</td>
<td>OFF</td>
<td>Device is not recording</td>
<td>Press button to initiate recording. See troubleshooting if the device does not record after pressing the button.</td>
</tr>
<tr>
<td>![Green LED] &gt; ![Green LED]</td>
<td>LEDs ON then OFF after pressing record button</td>
<td>Slam Stick Data folder is full</td>
<td>See troubleshooting section “No LED activity after Pressing the button” for corrective action.</td>
</tr>
</tbody>
</table>

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Figure 2 - LED Status Indication (sheet 1 of 2)
### LED Status Indication: 10-Hz Slam Stick

#### When Connected to Power

<table>
<thead>
<tr>
<th>LED Status</th>
<th>Battery Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>🟢🟢🟢</td>
<td>Fully charged</td>
<td>Disconnect from power and use the device for data logging.</td>
</tr>
<tr>
<td>🟢🟢🟢</td>
<td>Charging</td>
<td>Continue Charging</td>
</tr>
<tr>
<td>🟢🟢🟢</td>
<td>Battery cannot be charged due to extreme temperature</td>
<td>Allow device to warm or cool to operating range (0 to 45 degrees Celsius). If LED indication persists, contact Slam Stick POC.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢</td>
<td>Computer is accessing files on device.</td>
<td>Wait till files are copied and “blue light” goes off before disconnecting from computer.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢</td>
<td>Device not operating correctly or connected correctly.</td>
<td>Check connection, if problem persists contact Slam Stick POC.</td>
</tr>
</tbody>
</table>

#### During Battery Check

<table>
<thead>
<tr>
<th>LED Status</th>
<th>Blinking Mode</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Above 75%</td>
<td>The device should be capable to perform as desired.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Between 20% and 75%</td>
<td>Device will work; but for reduced period. Charge if longer recording period is required.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Below 20%</td>
<td>Charge the device before operation or storage.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Battery is at 0%</td>
<td>Charge the device before operation or storage.</td>
</tr>
</tbody>
</table>

#### During Operation

<table>
<thead>
<tr>
<th>LED Status</th>
<th>Blinking Mode</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Rapid Blinking – Green</td>
<td>Device is recording. Battery level is above 75%</td>
<td>Allow to continue recording or press the button for (2) seconds to end recording.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Rapid Blinking – Red and Green</td>
<td>Device is recording. Battery level is below 75%</td>
<td>Allow to continue recording or press the button to end recording.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>Rapid blinking – Red</td>
<td>Device is recording. Battery level is below 20%</td>
<td>Allow to continue recording or press the button to end recording.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢</td>
<td>OFF – NO LEDs</td>
<td>Device is not recording</td>
<td>Press button to initiate recording. See troubleshooting if the device does not record after pressing the button.</td>
</tr>
<tr>
<td>🟢🟢🟢🟢🟢</td>
<td>ALL LEDs ON &quot;stop light&quot; then OFF after pressing record button</td>
<td>Slam Stick Data folder is full</td>
<td>See troubleshooting section &quot;No LED activity after Pressing the button&quot; for corrective action.</td>
</tr>
</tbody>
</table>
NOTE

If the LED continues to blink after you release the button during battery check you did not hold the button long enough and are in the record mode. Press the button to stop recording and perform the battery check procedure to test the battery. At the end of the battery check the LEDs should be off.

Battery Level Check: Press and hold the Slam Stick Button for at least ”3” seconds then release. The LED should illuminate as shown in Figure 2 then shut off automatically.

Slam Stick Reset: When the Slam Stick becomes unresponsive or not does behave in a manner as described in this manual, it is recommended that the user “RESET” the Slam Stick as the first step in the troubleshooting procedure. To reset the Slam Stick; press and hold the Slam Stick button for “10 “seconds.

For further troubleshooting procedures, see the troubleshooting section of this training guide.

Successful Indications of a reset will be;

1. LEDs should illuminate for two to three seconds then turn off.
2. After 10 seconds of continuously pressing the button all LEDs will illuminate.
3. Release the button and all LEDs will again illuminate and then turn off indicating that the Slam Stick has been reset.

Turning “OFF” a Slam Stick:

1. Press and hold down the Slam Stick button for at least two (2) seconds while the LED is flashing. The Slam Stick LED should turn “OFF”.
Charging the Slam Stick:

**CAUTION**

DO NOT PLUG A SLAM STICK INTO AN NMCI COMPUTER OR NON-APPROVED COMPUTER FOR ANY REASON.

**NOTE**

If a Dock Assembly or PEMA-Dock Assembly is not available, you can plug the Slam Stick with any micro standalone USB charger such as a phone charger.

It is preferred that the Dock Assembly (Figure 3) is used to charge the Slam Stick and the and PEMA-Dock Assembly (Figure 3) is used to interface to the PEMA and download data. The Docks protect the micro USB connector on the Slam Stick and USB connection of the PEMA from damage and ensures the long life of the USB connectors and cables.

1. Charge the Slam Stick with the Dock assembly, Reference Figure 3. and IPB this manual.
   a. Plug the Dock Assembly into wall power using the power supply cord provided.

**CAUTION**

Ensure the Slam Stick is plugged into the Dock Assembly with the proper orientation. The Dock Assembly is designed so that the Slam Stick will only fit into the Dock Assembly one way. See Figure 3. for proper orientation. Forcing the Slam Stick into the Dock Assembly will damage the Slam Stick and the Dock Assembly.

1. Plug the Slam Stick into the Dock Assembly. Ensure that there are is no tape or Velcro attached to the Slam Stick. Only the Original Equipment Manufacturer (OEM) label detailing the Part Number (P/N) and Serial
Number (S/N) should be attached to the Slam Stick. Adding any other label/Velcro to the Slam Stick will impact the fit of the Slam Stick into the Dock Assembly and PEMA Assembly docking stations. Remove any other attached Label or Velcro that you find attached to the Slam Stick except for the approved OEM label.

b. Charge Slam Stick to 80% or better (LED is green). Refer to Figure 2 for LED charging status.

---

**Figure 3 - PEMA-Dock Assembly and Dock Assembly**
Initial Setup: PEMA
Enable Slam Stick in FAME. - Required for FAME 17.3 and below.

1. Open FAME:
   a. Select FAME “Configuration” tab.
   b. Select “Configure HMS”.
   c. Select “Administrative” tab.
   d. Select “Download Slam Stick Data in Read Flight Data”.
   e. Set “Purge Local Slam Stick Data Files” to “30”
   f. Select “Save” and “Exit”.

Initial Setup: Slam Stick
1. This process must be completed whenever a new Slam Stick is acquired by your squadron. Failure to comply with update will impact ability to record and transfer Slam Stick data.
2. Plug a Slam Stick into the PEMA.
3. Delete any files within the Slam Stick data folder.
4. Open FAME.
5. Update the Slam Stick Clock:
   a. Connect Slam Stick to PEMA WITHOUT Maintenance Card/Memory Unit.
   b. Select “Download” and enter any squadron BUNO when prompted.
c. There will be no data files to download but the Slam Stick clock will be synchronized to PEMA time.

![Slam Stick Training Guide](image)

6. For FAME 17.2 and below:


   b. If you do not have an NDDS account, create one or find someone with an account within the squadron to assist you.


   d. Expand to: “Slam Stick”.

   e. Expand to: “Configuration”.

   f. Download: “config.cfg” to your Internet capable computer.

   g. Copy the config.cfg file to the PEMA

   h. Copy the config.cfg file from the PEMA to the system folder of the Slam Stick.
7. Fame 17.3 and subsequent automatically updates the config.cfg file every time the Slam Stick is downloaded.

8. You have completed the update process.

9. Apply this process to all Slam Sticks in your squadron’s inventory.
Maintenance:

Pre-Flight:
1. Provide a fully charged Slam Stick to Aircrew.
2. The following daily Slam Stick maintenance is suggested:
   a. Verify PEMA clock is set correctly once a day. You can use your Cell phone clock as a guide if the PEMA is not connected to the network. Reset the clock, if required, using the clock ICON in the lower right hand corner of your PEMA screen.
      i. Open FAME.
      ii. Connect Slam Stick to PEMA WITHOUT Maintenance Card/Memory Unit.
      iii. Select “Download” and enter any squadron BUNO when prompted.
      iv. There will be no data files to download but the Slam Stick clock will be synchronized to PEMA time.
b. Resetting the PEMA clock and the Slam Stick clocks daily will ensure that you have the most accurately aligned Slam Stick Report available. When the aircraft clock and the Slam Stick clocks are off, the alignment of aircraft altitude to Cockpit pressure will be misaligned in your Slam Stick report.

Post-Flight:

1. Retrieve Slam Stick from Aircrew, the LED should be OFF indicating that the Slam Stick IS NOT recording.
2. Insert the Slam Stick into the charging docking station to charge
3. **If Aircrew reports that a Physiological Event (PE) or any other issue that requires plotting of the Slam Stick data, proceed to the Slam Stick Reports section of this guide for instructions to view/plot Slam Stick data.**
4. Follow CNAF and NSC guidance whenever a suspected PE event has occurred.
5. Requests for FST analysis of Slam Stick data in order to aid in testing and troubleshooting recommendations for **non-PE events** (aircraft ECS
cockpit pressure troubleshooting) shall be submitted to the TYCOM F/A-18 Class Desk via the appropriate type WING or MALS.

6. Contact the F/A-18 FST Slam Stick Coordinator for any Slam Stick related issue in which you may require assistance.

Aircrew:

**CAUTION**

Charge the Slam Stick only with the charging station provided. Slam Stick is not authorized for use with NMCI computers or other Non-Approved computers. Do not plug the Slam Stick into an NMCI computer or other Non-Approved computer to charge the Slam Stick or to retrieve data. Plugging a Slam Stick into a NMCI computer or other Non-Approved computer is not authorized and may deactivate your computer account and/or computer.

**ONLY PEMA STRIPPING STATIONS ARE AUTHORIZED FOR SLAM STICK USE.**

**NOTE**

After the Slam Stick button is momentarily depressed, the Slam Stick is in a recording mode. Rapid green blinking is the preferred mode of operation and means the battery is above 75% charged. If after momentarily depressing the button the Slam Stick causes the LED on the Slam Stick to rapidly blink any other color than green, return the Slam Stick to the maintainner an obtain a fully charged Slam Stick. This will ensure that there is plenty of battery to record the entire flight.
Pre-Flight:
1. Acquire Slam Stick from Maintenance Control.
2. Activate Slam Stick by momentarily pressing the Slam Stick button.
   a. Slam Stick LED should be rapidly blinking green indicating that the Slam Stick is “ON” and in the recording mode with a better than 75% charge on the battery.
   b. If the Slam Stick is blinking any other color but green, return the Slam Stick to ensure the entire flight will be recorded.
3. Place the Slam Stick into your flight suit pocket left or right arm with the Slam Stick button facing your body, this will give you the best chance to ensure you will not accidently turn off the Slam Stick during flight.
   Activate the pocket zipper to secure the slam Stick during flight.
   a. Do not place any other items in your pocket. Do not access the pocket during flight as you may inadvertently stop Slam Stick recording.

Flight:
1. Note any issue with cockpit pressure system, include time if possible and any other info you think is important.
2. If hot swapping flights, ensure aircraft PC cards and Slam Stick stay together.
3. For multiple leg flights, where the aircraft is powered down and you will not have access to debrief, press the Slam Stick button to stop recording when it is convenient to do so.
   a. When the next leg of the flight occurs, prior to getting into the aircraft, press the Slam Stick button to start the next recording. Ensure the LED light is flashing “ON” to indicate the Slam Stick is recording.
   b. Place the Slam Stick back into your right or left arm pocket with the Slam Stick button facing your body, this will give you the best chance to ensure you will not accidently turn off the Slam Stick during flight. Secure the Slam Stick in place by securing the pocket zipper or Velcro.
c. **Do not place any other items in your pocket. Do not access the pocket during flight as you may inadvertently stop Slam Stick recording.**

Post-Flight:
1. Return to Maintenance control.
2. Remove the Slam Stick from flight suit pocket, it should be blinking green. If it is blinking other colors that is ok, it just means the battery is getting low.
3. Momentarily press the Slam Stick button for (2) seconds, the LED should stop blinking, indicating that the Slam Stick is “OFF” and no longer charging.
4. Perform Flight Debrief to download Slam Stick data to the PEMA.

**WARNING**

0.6 psi/sec cockpit pressure deviations during flight accompanied by pressure related health symptoms may require medical evaluation.

a. Slam Stick reports, as of release of FAME 17.3, contain a “Max Slam Stick Pressure Deviation” notification within the report. (Max Slam Stick Pressure Deviation will only be reported for deviations of 0.6 psi/sec or greater). Fame 17.2 and 17.1 do not contain a “Max Slam Stick Pressure Deviation” notification within the Slam Stick report
b. Press and hold down the Slam Stick button for at least two (2) seconds while the LED is flashing. The Slam Stick LED should turn “OFF”. This feature was added so that accidental bumping of the Slam Stick button while in the flight suit pocket would not accidentally shut “OFF” the Slam Stick. This feature is only available on Slam Stick produced after August 2018. For all other Slam Sticks, press and immediately release the Slam Stick button. The Slam Stick LED should turn “OFF”.

c. Plug Slam Stick into Pema.
d. Open FAME and begin debrief.
e. Review Slam Stick report during debrief. See “Slam Stick Reports” section of this manual for instructions on reviewing the report.

f. **If after viewing your Slam Stick report a 0.6 psi/sec or greater deviation is noted, notify Maintenance Control of your findings.** Deviation report are active in FAME 17.3 or subsequent.

g. **If you are using FAME 17.2 or FAME 17.1 and believe that you may have experienced a pressure anomaly, please notify Maintenance Control.**

5. Once you have completed debrief and viewed the Slam Stick report, return the Slam Stick to Maintenance Control.

6. Provide feedback to Maintenance Control on flight such as:
   a. Was there a Physiological Event (PE) that you believed occurred during flight?
   b. Any issues noted with cockpit pressure system including approximate time of issue (engineers will use this information to look at the collected data to see there are anomalies in the data that pertain to the reported issue)?
**Slam Stick Reports:**

**FAME Report:**

1. To generate Slam Stick Report, select “Flight Summary Tool” Within FAME.

   **NOTE:**

   The PEMA that downloaded the Slam Stick file must be used to generate the Slam Stick Report since the Slam Stick file is NOT stored on the squadron server.

2. With PEMA in CONNECTED mode select and “Open” the desired MX Card/MU file.

   **NOTE:**

   Slam Stick files (.IDE) will NOT be displayed since they are not stored on the squadron server.

3. The Flight Summary Tool menu will be displayed listing the available reports for the selected MX Card/MU file (.AAD).

4. Scroll down the menu until “Slam Stick Reports” is visible.

5. Select the box next to the file name and then select “View Reports”.

   **NOTE:**

   If “Slam Stick Reports” is not visible, ensure associated Slam Stick file is located in the same folder as the MX Card/MU file or in the “archive/slam” folder and is named identically.

6. Multiple Slam Stick Reports will be available if multiple Slam Stick files were present on the Stick during download.

   **NOTE:**

   A report can be generated for each Slam Stick file but the last dash number file is likely the most relevant file.

8. The report can be exported to .pdf or Excel by selecting the Export Report icon in the upper LH corner.
## Troubleshooting:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Potential Cause</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slam Stick is unresponsive</td>
<td>Firmware in the slam Stick is frozen</td>
<td>Reset the Slam Stick by holding the button down for 10 seconds. Successful Indications of a reset will be;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. LEDs should illuminate for two to three seconds then turn OFF.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. At 10 seconds all LEDs should illuminate. Upon release of the Slam Stick button after 10 seconds all LEDs will again illuminate and then turn OFF.</td>
</tr>
<tr>
<td>No LED activity after Pressing the button</td>
<td>The battery is depleted</td>
<td>Plug the device into the charging Dock Assembly and charge the battery fully prior to use.</td>
</tr>
<tr>
<td></td>
<td>The Slam Stick is full. Indications are all lights ON ”Stop light” then all lights OFF</td>
<td>*Clear Data from “Data” folder on the Slam Stick. Verify that you have loaded the “NDDS” config.cfg file into the system directory as directed by this manual.</td>
</tr>
<tr>
<td></td>
<td>The LED is damaged</td>
<td>Contact Slam Stick POC for further guidance.</td>
</tr>
<tr>
<td></td>
<td>The button may have been pressed while connected to power and is in “bootloader” mode</td>
<td>Disconnect the device from power and wait 30 seconds for the device to reboot.</td>
</tr>
<tr>
<td>The LED is not “ON” when connected to power</td>
<td>The USB cable is not connected or there is debris</td>
<td>Check the connections to the computer and ensure it is properly plugged in. Remove any pocket lint or</td>
</tr>
</tbody>
</table>

---

*Note: The Troubleshooting section provides a summary of common issues and their solutions. It is important to follow the actions as directed to resolve any problems encountered. If the issue persists, contact Slam Stick POC for further guidance.*
<table>
<thead>
<tr>
<th>Problem</th>
<th>Potential Cause</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfering with contact.</td>
<td>Debris present in the USB receptacles to the Slam Stick and charger.</td>
<td></td>
</tr>
<tr>
<td>The device does not appear in “My Computer” when connected.</td>
<td>There may have been water or dust damage to the Slam Stick and charger.</td>
<td>Contact Slam Stick POC for further guidance.</td>
</tr>
<tr>
<td>The device is still recording (LEDs will be flashing).</td>
<td></td>
<td>Press the button for at least 2 seconds to stop recording.</td>
</tr>
<tr>
<td>Less than 20% battery. If the battery is too low the Slam Stick will emit 3 RED blinks and shut down.</td>
<td></td>
<td>Plug the device into the charging Dock Assembly and charge the battery fully prior to use.</td>
</tr>
<tr>
<td>The LED blinks RED during or when starting a recording.</td>
<td>The Slam Stick is below 20% charge</td>
<td>Charge the Slam Stick to 100%</td>
</tr>
<tr>
<td>Microsoft Windows presents a dialog box prompting to scan and fix the Slam Stick drive.</td>
<td>Windows version dependent.</td>
<td>This message is harmless, the user may either proceed with or cancel the scan.</td>
</tr>
<tr>
<td>Slam Stick IDE files are very large, multi-megabytes or larger.</td>
<td>The incorrect configuration file is loaded on your Slam Stick</td>
<td>* Download the proper configuration file from the NDDS server and place the config file in the System folder of the Slam Stick. Delete any data files that reside in the data folder and Reset the Slam Stick clock in FAME.</td>
</tr>
<tr>
<td>Slam Stick Files are not downloading</td>
<td>Multiple data folders exist in the Slam Stick Data folder</td>
<td>** Delete multiple Data files in the Slam Stick Data Folder.</td>
</tr>
</tbody>
</table>
*Fame 17.3 automatically updates configuration file during every Slam Stick Download. For FAME 17.2 and below, acquire the new system config.cfg file from your NDDS system and copy to the Slam Stick:

b. If you do not have an NDDS account, create one or find someone with an account within the squadron to assist you.
d. Expand to: “Slam Stick”.
e. Expand to: “Configuration”.
f. Download: “config.cfg” to your Internet capable computer.
g. Copy the config.cfg file to the PEMA
h. Copy the config.cfg file from the PEMA to the system folder of the Slam Stick.
i. ** Delete any files within the Slam Stick data folder
j. Update the Slam Stick Clock:
   i. Connect Slam Stick to PEMA WITHOUT Maintenance Card/Memory Unit.
   ii. Select “Download” and enter any squadron BUNO when prompted.
iii. There will be no data files to download but the Slam Stick clock will be synchronized to PEMA time.
Integrated Parts Breakdown (IPB):

1. Refer to Figure 4. which details the Slam Stick equipment needed to outfit a squadron (12 aircraft).
2. Additional quantities will be required for squadrons that have more than 12 aircraft:

Typical Slam Stick Squadron Outfitting (12 aircraft):

Qty - Nomenclature

(2) - Dock Assembly (for slam Stick charging)

(5) - PEMA-Dock Assembly (for Slam Stick PEMA interface and data download)

(24) - Slam Sticks

FAME 17.1 or better
FIGURE 4: Equipment Integrated Parts Breakdown (IPB) (Sheet 1 of 2)
<table>
<thead>
<tr>
<th>INDEX NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>UNITS PER ASSY</th>
<th>USE ON CODE</th>
<th>SM&amp;R CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>*4124AS1092-1</td>
<td>Dock Assembly</td>
<td>1</td>
<td>A</td>
<td>AOOZZ</td>
</tr>
<tr>
<td>2</td>
<td>*4124AS1094-1</td>
<td>PEMA-Dock Assembly</td>
<td>1</td>
<td>A</td>
<td>AOOZZ</td>
</tr>
<tr>
<td>3</td>
<td>LOG-0003-016G-1GB-PC</td>
<td>Acceptable Substitutes: Slam Stick LOG-0003-016G-2GB-PC LOG-0002-100G LOG-0002-100G-DC-2GB-PC</td>
<td>1</td>
<td>A</td>
<td>PAOZZ</td>
</tr>
</tbody>
</table>

*Contact F/A-18 ECS Logistics POC, [kelvin.bogus@navy.mil](mailto:kelvin.bogus@navy.mil), (619) 545-3468 to obtain guidance related to the short term sustainment and replacements support for items with an SM&R code of MDOZZ.*

<table>
<thead>
<tr>
<th>Code</th>
<th>USABLE ON</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>All</td>
<td>F/A-18</td>
</tr>
</tbody>
</table>

**FIGURE 4: Equipment Integrated Parts Breakdown (IPB) (Sheet 2 of 2)**
<table>
<thead>
<tr>
<th>INDEX NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>UNITS PER ASSY</th>
<th>USE ON CODE</th>
<th>SM&amp;R CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4124AS1092-1</td>
<td>Dock Assembly</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assemble from:

1. **USBAUB15CMBK** Micro USB Cable: 10
   - AOOZZ

2. **AX-TPCS** Charger: 1
   - PAOZZ

3. **4124AS1093-1** Dock: 1
   - MDOZZ

* Substitutions not authorized, obtain USBAUB15CMBK cable only.

** Substitutions not authorized, obtain AX-TPCS charger only.

*** Contact F/A-18 ECS Logistics POC, kelvin.bogus@navy.mil, (619) 545-3468 to obtain guidance related to the short term sustainment and replacements support for items with an SM&R code of MDOZZ.

**FIGURE 5: Dock Assembly Integrated Parts Breakdown (IPB)**
### FIGURE 6: PEMA-Dock Assembly Integrated Parts Breakdown (IPB)

<table>
<thead>
<tr>
<th>INDEX NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>UNITS PER ASSY</th>
<th>USE ON CODE</th>
<th>SM&amp;R CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4124AS1094-1</td>
<td>PEMA-Dock Assembly</td>
<td>1</td>
<td>AOOZZ</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>4124AS1095-1</strong></td>
<td>Micro USB Cable</td>
<td>1</td>
<td>PAOZZ</td>
<td></td>
</tr>
</tbody>
</table>

Assemble from:

- **1** *USBAUB15CMBK* Micro USB Cable
- **2** **4124AS1095-1** PEMA-Dock

* Substitutions not authorized, obtain USBAUB15CMBK cable only.

** Contact F/A-18 ECS Logistics POC, kelvin.bogus@navy.mil, (619) 545-3468 to obtain guidance related to the evolving long term sustainment and replacements support for items with an SM&R code of MDOZZ.
Assembly of Slam Stick Dock Assembly and PEMA-Dock Assembly:

**NOTE**

Read all instructions before attempting to assemble the Dock Assembly and PEMA-Dock Assembly. Orientation of the USB connectors is critical in the following procedures.

1. Reference Figure 5. in the following instructions to assemble the Slam Stick Dock Assembly:
   a. Insert a Slam Stick Charger (2) into the Slam Stick Dock (3) by pressing down so that the charger locks securely into place into the recessed area of the Slam Stick Dock. The charger shall be oriented so that its power cable port is facing the power plug symbol printed on the Docks base.
b. on the charger.

c. Inset the USB-a Connector into corresponding port in the Slam Stick charger.
USB-a connector

Image rotated 180 degrees from previous view
d. Orient the micro USB-b connector of the USB cable as shown below.

![USB-b Connector Orientation](image)

- Orient the micro USB-b connector of the USB cable as shown below.

- Plug a Slam Stick into the USB-b connector of the USB cable that was installed in step 1.b. The face of the Slam Stick should be pointing towards the front of the Dock to maintain USB-b connector orientation.

- Push the Slam Stick down so that the USB-b connector seats into the hole in the bottom of the Dock slot until you feel the Slam Stick “bottom out”. The Slam Stick should easily slide into the opening of the Dock. If the Slam Stick does not easily push into the opening of the Dock, ensure that the Slam Stick and USB-b connector are in the proper orientation.

- Remove Slam Stick for Dock.

- Repeat steps 1.b through 1.g to install the remaining USB cables.
i. When all 10 cables are installed, ensure all USB-b cables and the charger are all oriented as shown in the following graphic.

c. Plug one end of power cable to the charging Dock Assembly and the other end into wall power and ensure that all 10 port LEDs turn blue, indicating power has been applied.

d. Assembly complete, you may now begin to use Dock Assembly to charge your Slam Sticks.

2. Reference Figure 6. for the following instructions to assemble the PEMA-Dock Assembly.

   a. Thread the USB-b portion (smaller of the two connectors) of the USB cable (1) through PEMA-Dock (2).
b. Plug a Slam Stick into the USB-b connector of the USB cable.

c. Orient Slam Stick per Figure 8. and push the Slam Stick into the PEMA-Dock so that the USB-b connector seats into the hole in the Dock slot. You should feel the connector “bottom out” when fully seated. The Slam Stick should easily slide into the opening of the PEMA-Dock. If the Slam Stick does not easily push into the opening of the PEMA-Dock, ensure that the Slam Stick and USB-b connector are in the proper orientation.

![Figure 8. Orientation of Slam Stick USB-b Connector]

Figure 8. Orientation of Slam Stick USB-b Connector

d. Plug the USB-a connector into a PEMA station that has been turned on.

e. Install a Slam Stick into the PEMA- Dock Assembly and verify that the Slam Stick charging light is activated. See figure 9.
Figure 9. Slam Stick Plugged into PEMA

f. Complete steps 2.a-e to assemble remaining PEMA-Dock Assemblies.
g. Assembly procedure complete. You may now begin to use PEMA-Dock Assembly to interface Slam Sticks with the PEMA computer.

3. Before using your newly assembled Dock Assembly or PEMA Dock Assembly, ensure that there are is no tape or Velcro attached to the Slam Stick. Only the Original Equipment Manufacturer (OEM) label detailing the Part Number (P/N) and Serial Number S/N should be attached to the Slam Stick. Adding anything other label/Velcro to the Slam Stick will impact the fit of the Slam Stick into the Dock Assembly and PEMA Assembly docking stations. Remove any other attached Label or Velcro that you find attached to the Slam Stick except for the approved OEM label.