

## **COWLING BAFFLE SCREEN INSTALLATION INSTRUCTIONS**

**MODELS: BELL 212, 412, 412CF & 412EP**

Read all of the installation instructions thoroughly  
prior to the installation of this product



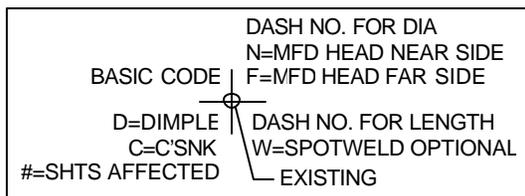
**Weight & Balance**

<u>Part Number</u>	<u>Description</u>	<u>Weight</u>	<u>Long. Arm</u>	<u>Lat. Arm</u>
AAL-232-021-001	Screen, Assy	0.00*	N/A	N/A
		0.00 (Kg)	0.00 (m)	0.00 (m) BL

\* Total increase in weight to aircraft.

**General Notes**

1. All Installation Instructions shall be accomplished in accordance with (IAW) standard aircraft practices. Refer to the current revision of the FAA manuals AC 43.13-1B and AC 43.13-2A for details on standard aircraft practices.
2. All Hardware shall be torqued to standard aircraft specifications. Refer to the current revision of the FAA manuals AC 43.13-1B and AC 43.13-2A for details on standard torque specifications.
3. All Dimensions are in imperial measures (inches/pounds).
4. Refer to the current revision of the Cowling Baffle Screen Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this document.
5. Refer to the current revision of the Cowling Baffle Screen Maintenance Manual Supplement for instructions on continuing airworthiness for the item(s) referenced within this document.
6. Alpine Aerotech Ltd. shall make any subsequent revisions of this document available upon request.
7. All rivet callouts and codes are per NAS523.



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BASIC CODES



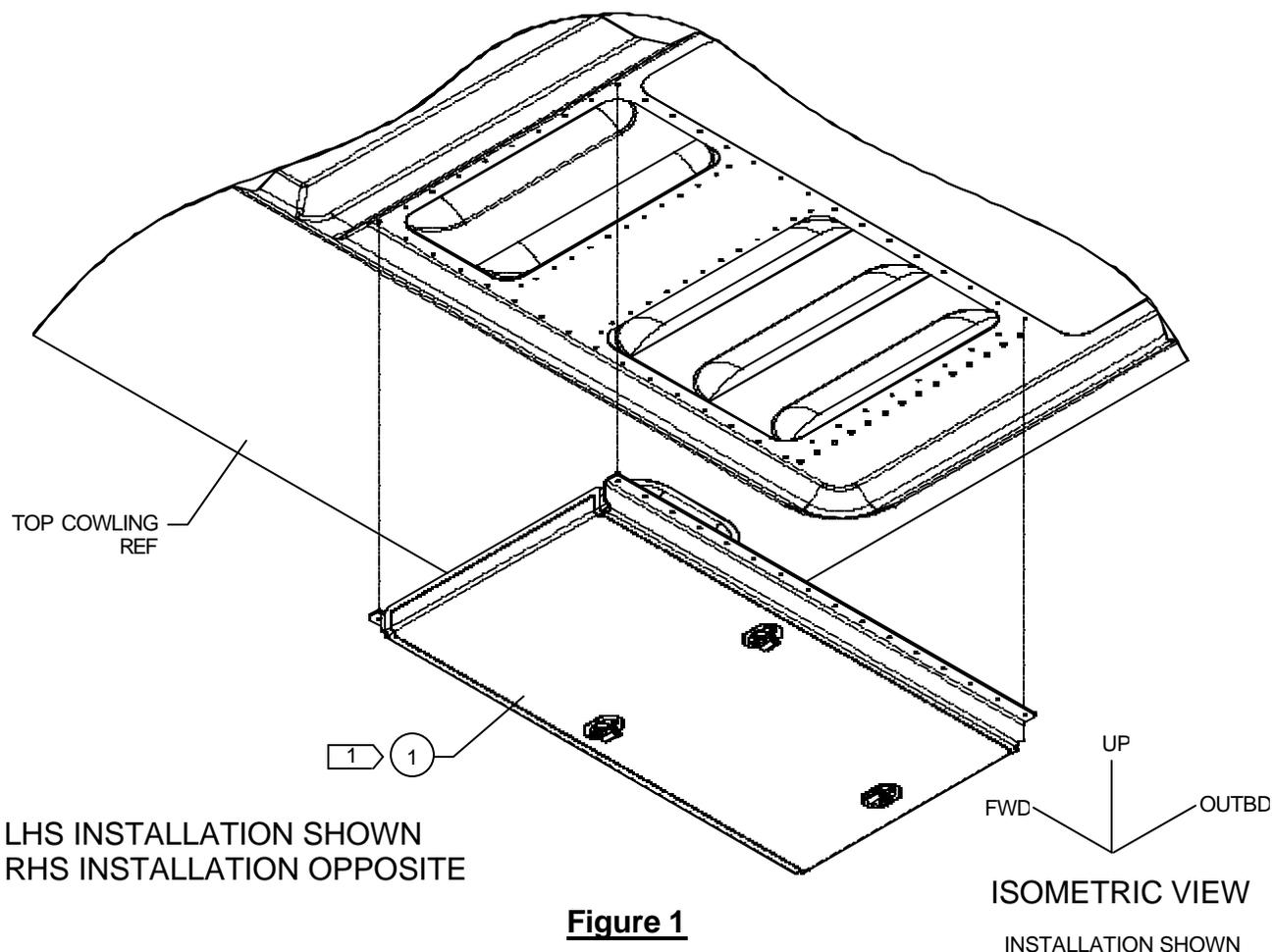
## **Installation Notes**

- ① Position Screen, Assy (Item 1) with equal Edge Distance (ED) With Respect To (WRT) existing FWD and AFT rivet lines.
- ② Backdrill from existing Top Cowling hole thru Screen, Assy (Item 1).
- ③ Install wet and coat MFD head with primer per MIL-PRF-23377, Type 1, Class C. Coat MFD head with paint per MIL-PRF-85285, Type 1.
- ④ Remove and discard existing aircraft item. Existing aircraft item shall not be used as an alternate.



## Installation Instructions

1. All Installation Instructions within this document apply to a LHS installation only. RHS installations are opposite.
2. Remove the Top Cowling from the aircraft. Reference Figure 1.
3. Spread the Clamps on the Top Cowling and existing Screen.
4. Temporarily remove the Fire Detection Flex Cable from the Clamps on the Top Cowling and existing Screen.
5. Remove and discard the existing rivets common to the existing Screen. Reference Figure 2 and Pennant Note 1.
6. Remove and discard the existing Screen. Reference Figure 1 and Pennant Note 1.



**Figure 1**



## **Installation Instructions**

7. Prepare the Top Cowling by removing any residual material, dirt, etc. and wipe the mating surfaces clean.
8. Temporarily mark the centerlines of the FWD and AFT rivet lines on the Top Cowling. Reference Figure 2.
9. Position the Screen, Assy (Item 1) on the Top Cowling as shown and clamp together. Reference Figures 1, 2 & 3 and Flag Note 1.

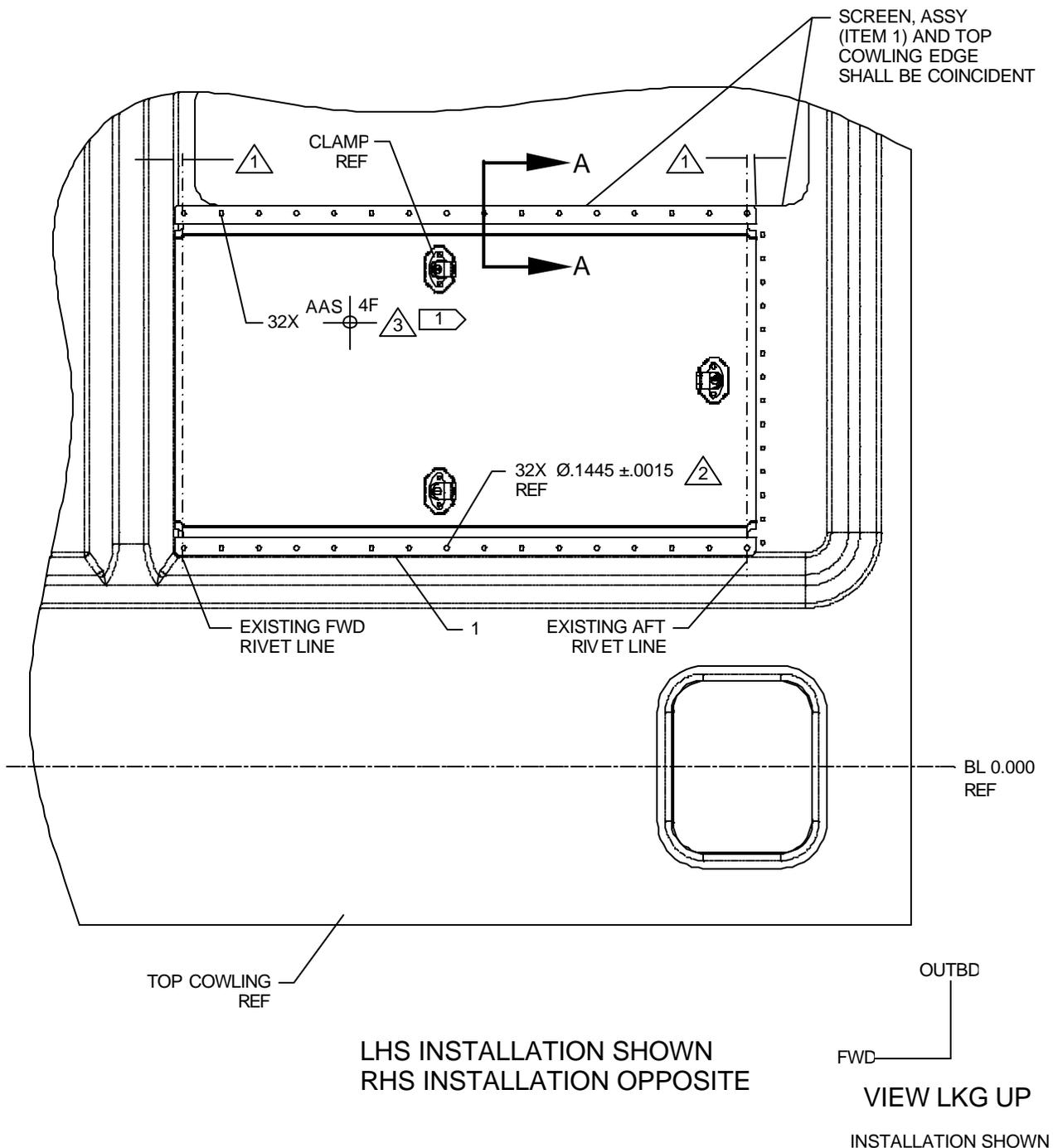
**NOTE: Ensure that the proper ED and edge coincidence exists before clamping.**

10. Backdrill the four corner holes from the Top Cowling thru the Screen, Assy (Item 1). Reference Figures 2 & 3 and Flag Note 2.
11. Temporarily install Cleco fasteners in the four corner holes and backdrill the remaining holes from the Top Cowling thru the Screen, Assy (Item 1) as shown. Reference Figure 2 and Flag Note 2.
12. Rivet the Screen Assy (Item 1) to the Top Cowling. Reference Figure 2 and Flag Note 3.
13. Open the Clamps on the Screen, Assy (Item 1).
14. Fasten the Fire Detection Flex Cable in the Clamps on the Top Cowling and Screen, Assy (Item 1).

**NOTE: Ensure that the Grommets on the Fire Detection Flex Cable are fastened in the Clamps.**



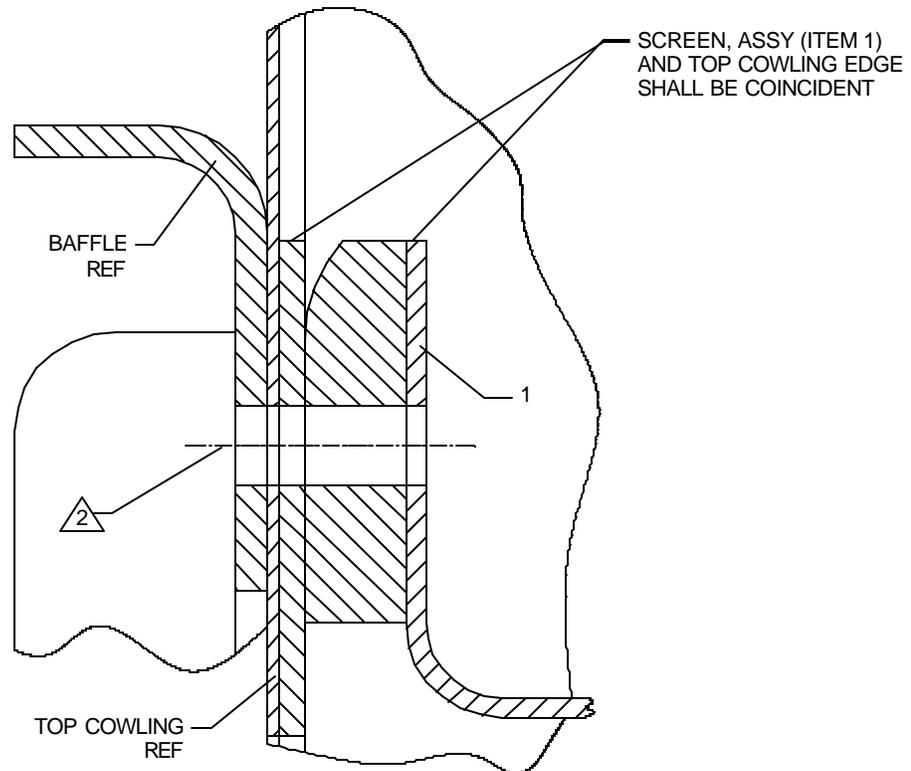
**Installation Instructions**



**Figure 2**  
Looking Normal to Top Cowling



## Installation Instructions



LHS INSTALLATION SHOWN  
RHS INSTALLATION OPPOSITE

**Figure 3**  
Section A-A

15. Installation complete.
16. Perform a General Inspection of all items to ensure proper installation.
17. Update the aircraft logbook for the installation of the Screen, Assy (Item 1).