

# A320FAM RIB 21 HOCKEY STICK INSPECTION

**PAUT** 

Sep 2025











#### **Aeroman**



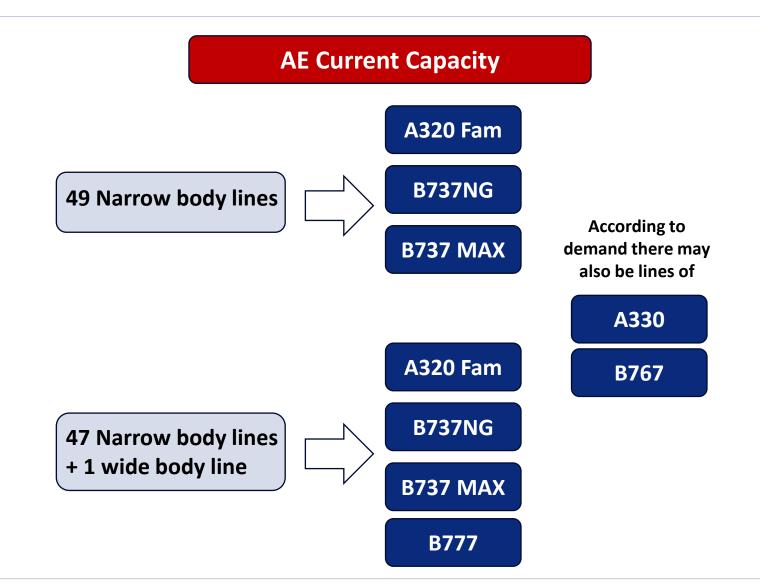


Aeroman, founded in 1983 as the maintenance division of TACA Airlines, has significantly expanded its operations over the years. By 2024, six hangars have been built, the capacity of two hangars has been expanded, and work is already underway on future expansions.

Aeroman is defined by its mission to provide high-quality aircraft maintenance services and its vision to lead globally in this field, guided by values such as solidarity, passion for challenges, commitment to quality, and continuous learning.

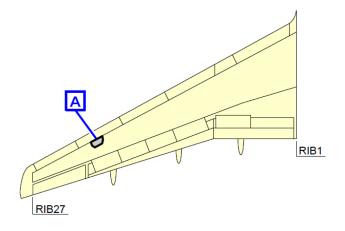
## **Current Capacity**

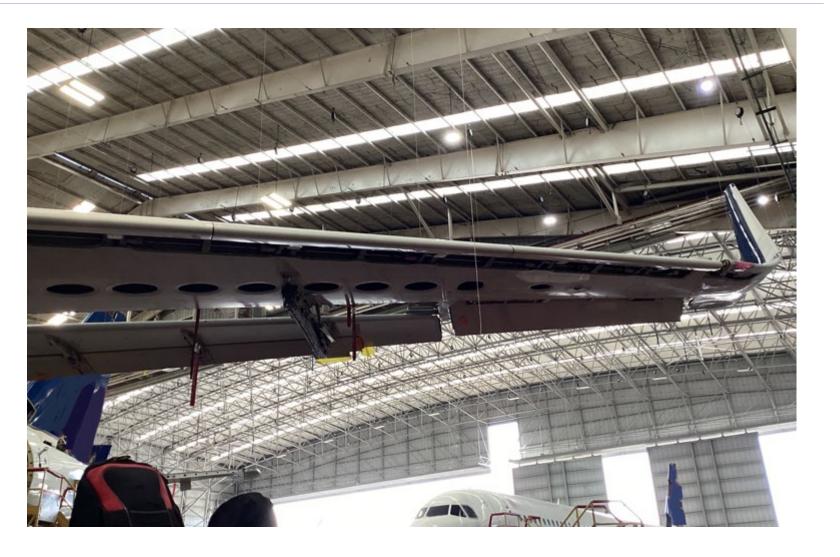




## AREA OF INSPECTION

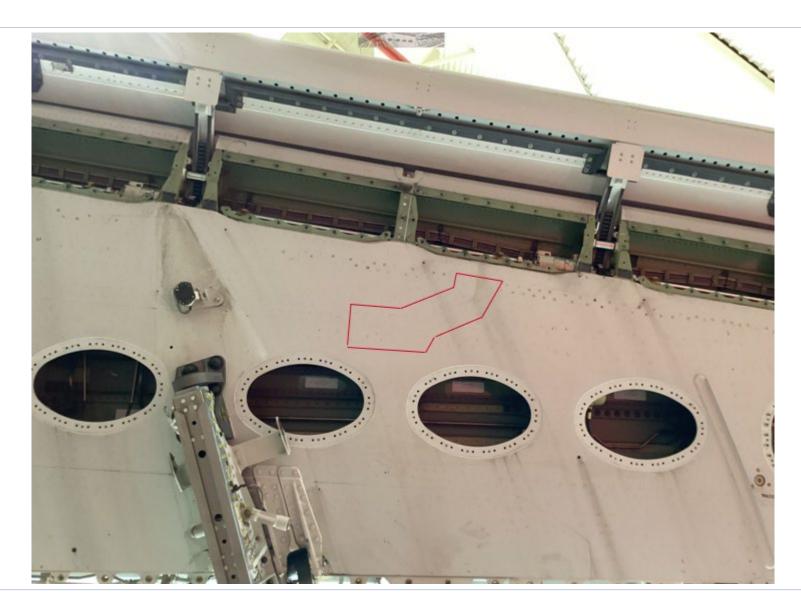






## AREA OF INSPECTION

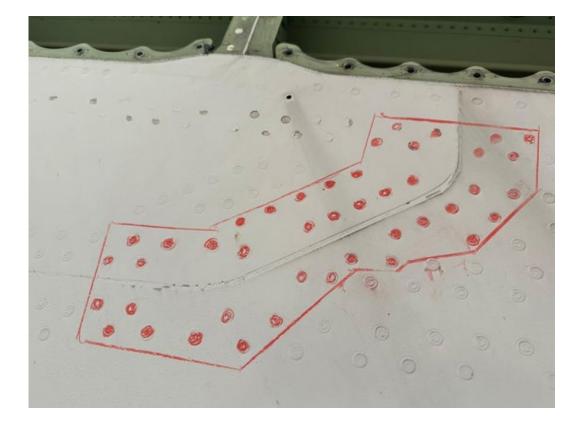




## **BOLTS OF INTEREST**

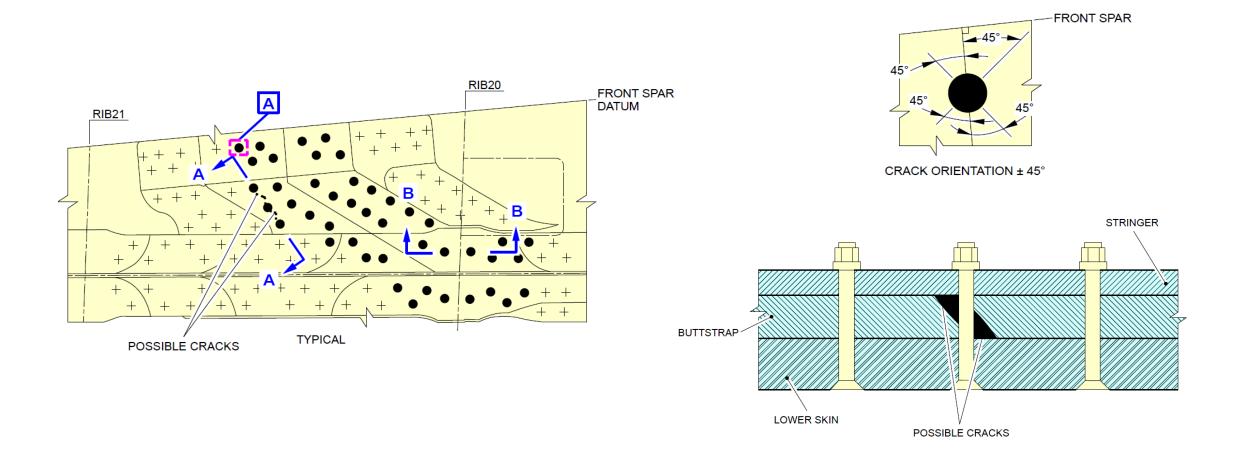






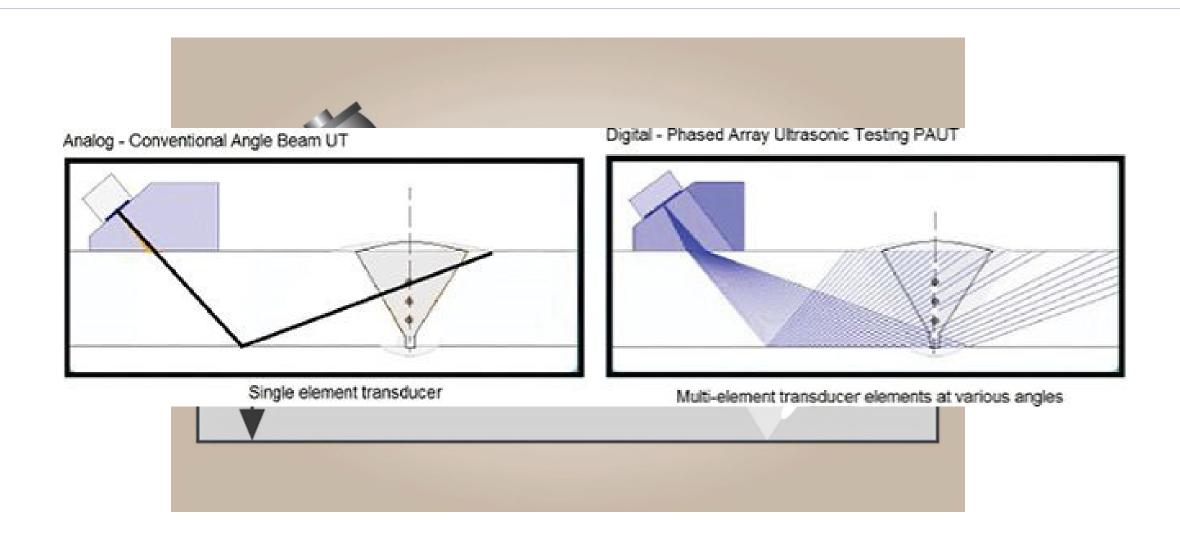
#### LAYER OF INTEREST AND SCANNING DIRECTIONS





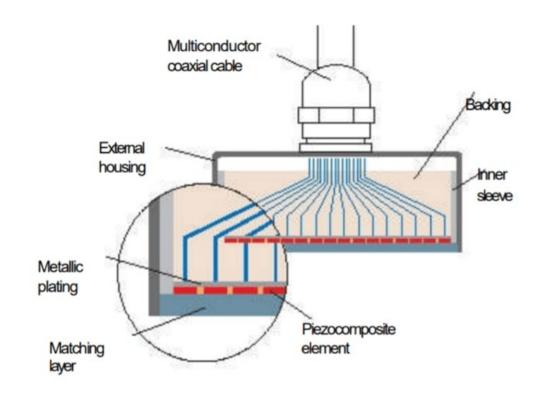
#### **UT VS PAUT**



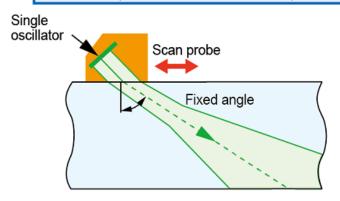


#### PAUT SCANNING

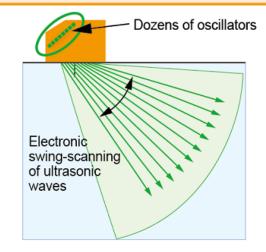




# Conventional ultrasonic testing method (conventional UT method)

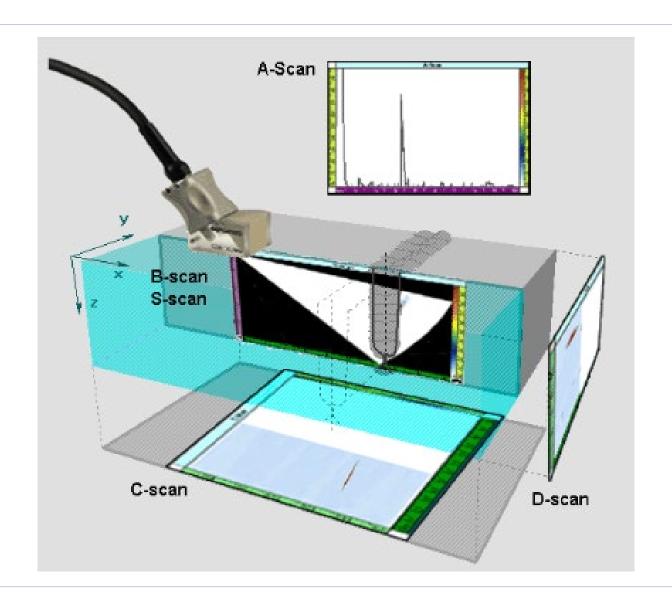


# Phased array ultrasonic testing method (PAUT method)



#### PAUT SCAN PRESENTATIONS

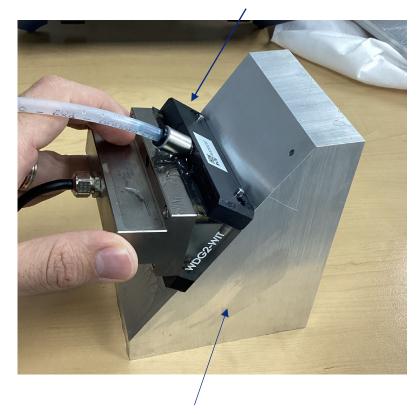




#### **TOOLING**

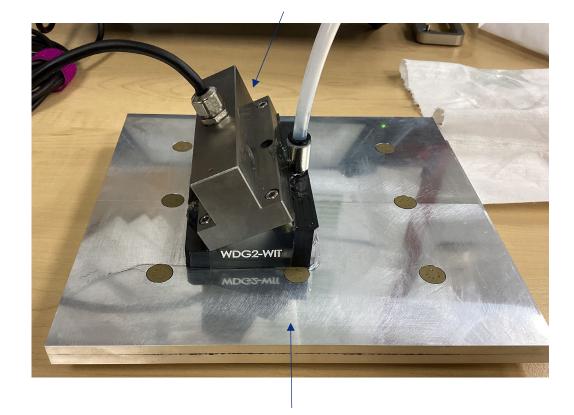


WEDGE: WDG2-WIT



FAMILIARZATION STANDARD BLOCK: 99F57204173000

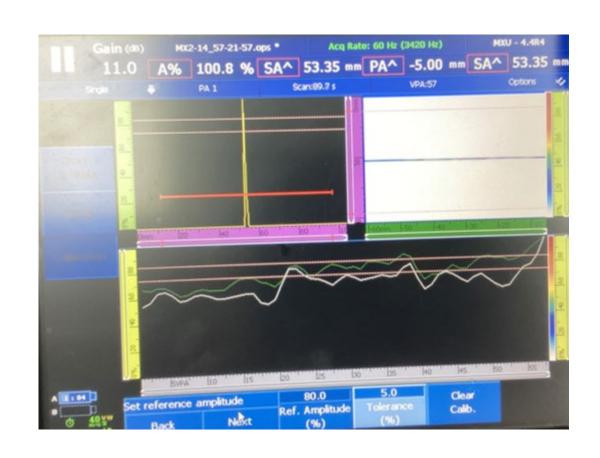
SEARCH UNIT: ME64-LMP16-WIT

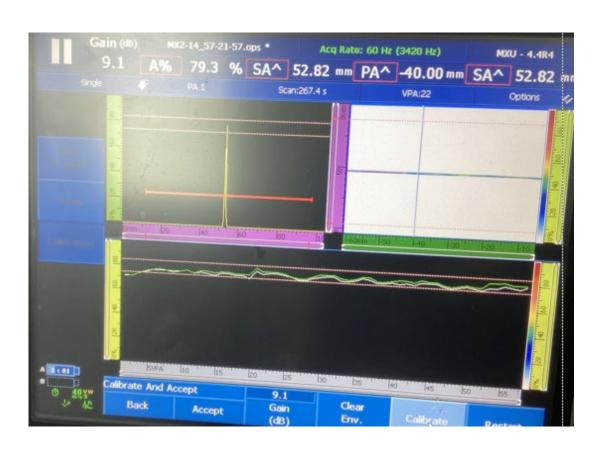


CALIBRATION STANDARD BLOCK: 99D57003007000

#### PAUT SEARCH UNIT CALIBRATION





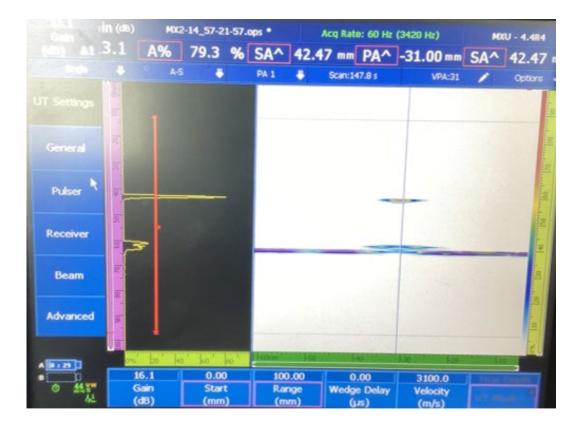


BEFORE AFTER

#### SENSITIVITY CHECK

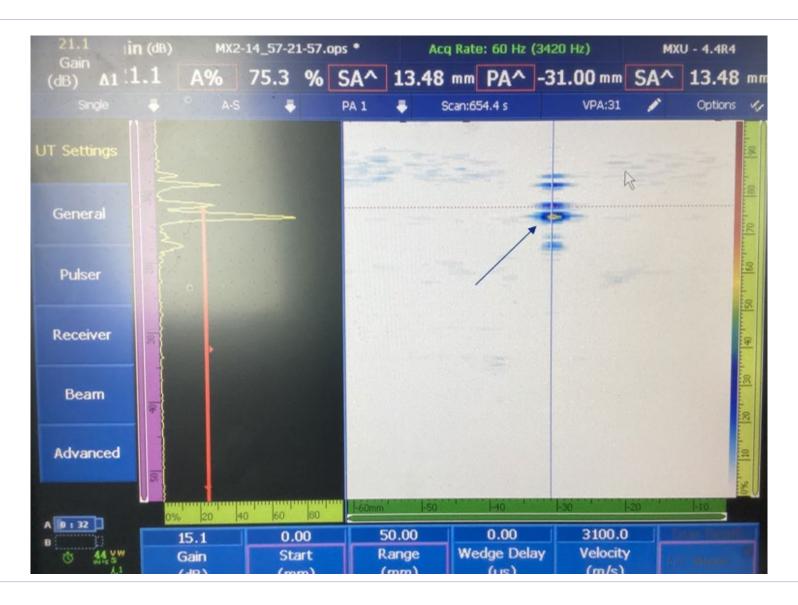






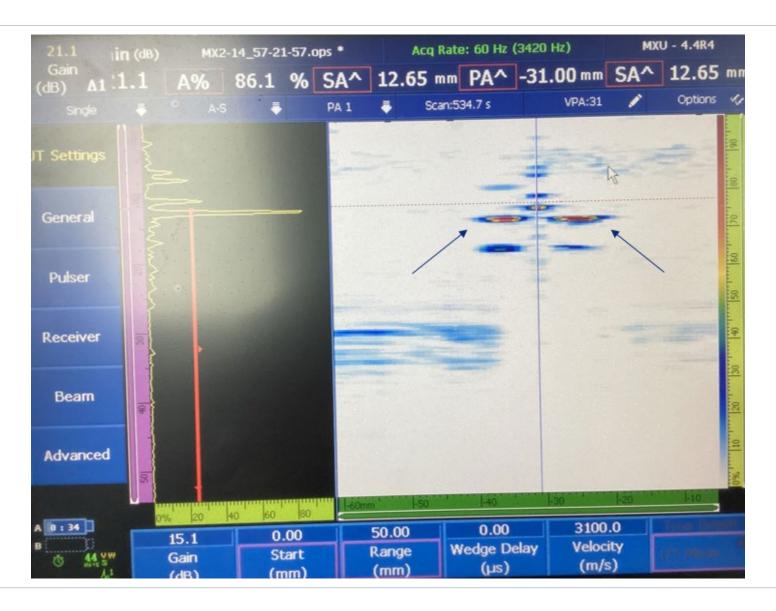
#### CALIBRATION BLOCK HOLE SIGNAL





#### CALIBRATION BLOCK NOTCH AND HOLE SIGNALS

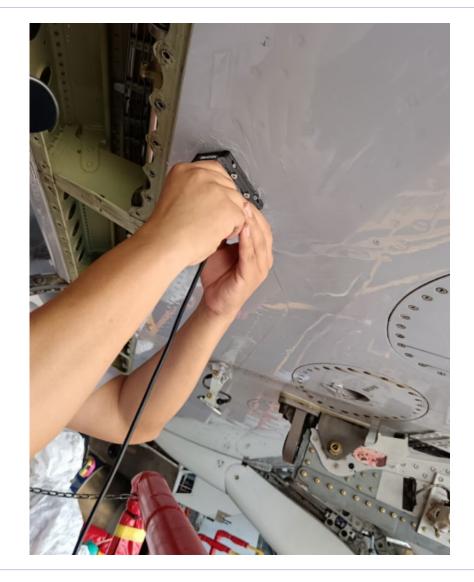




## INSPECTION PROCEDURE







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#### LOOKING FWD: ALT. INSP METHOD FOR X-RAY



#### TASK 57-21-57-260-801-A01

#### Outer Wing, Bottom Skin Run-out of the Buttstrap

#### 1. Task Supporting Data

#### A. Area of Applicability

Outer Wing Bottom Skin Run-out of the Buttstrap at Stringer 8 between Rib 20 and Rib 21 adjacent to the Front Spar, and Run-out of the Buttstrap at Stringer 11 adjacent to Rib 21 at the Rear Spar, LH/RH wings. (See FIGURE 57-21-57-991-001)

B. <u>Description of Possible Damage</u>
Fatigue cracks ≥ 9.5 mm (0.374 in.) in the buttstraps, initiating at the edge of the bolt holes. (See FIGURE 57-21-57-991-001)

#### TASK 57-21-57-270-801-A01

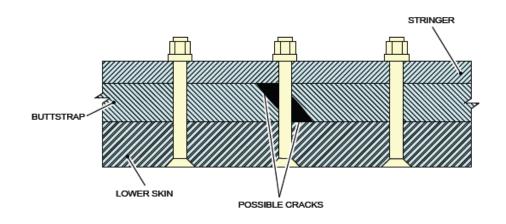
Bottom Cover Buttstraps Runout at Rib Bays 19 to 21, LH/RH

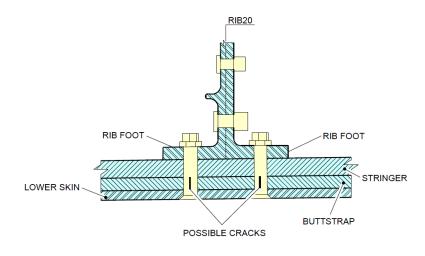
- 1. Task Supporting Data
  - A. Area of Applicability The runout of the bottom cover buttstraps (hockey stick) at rib bays 19 thru 21, LH/RH (Refer to <u>FIGUR</u> <u>E 57-21-57-991-011</u>).
  - B. Description of Possible Damage Fatigue cracks that start at the fastener hole and extend from the datum of the front spar flange in plus or minus 45° direction (Refer to <u>FIGURE 57-21-57-991-012</u>).

SLOT:  $5 \text{ mm} \pm 0.15 \text{ mm} \times 5 \text{ mm} \pm 0.15 \text{ mm} (0.197 \text{ in} \pm 0.006 \text{ in} \times 0.197 \text{ in} \pm 0.006 \text{ in})$ WIDTH:  $0.15 \text{ mm} \pm 0.15 \text{ mm} (0.006 \text{ in} \pm 0.006 \text{ in})$ 

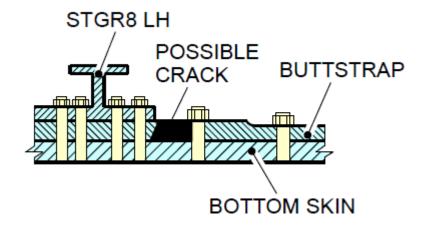
#### COMPARATIVE OF AREA STRUCTURE & POSSIBLE CRACKS

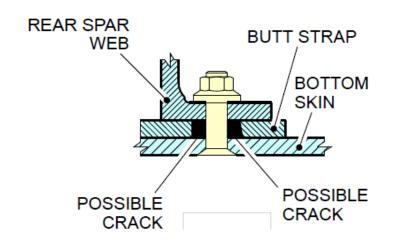






AOT A57N024-24

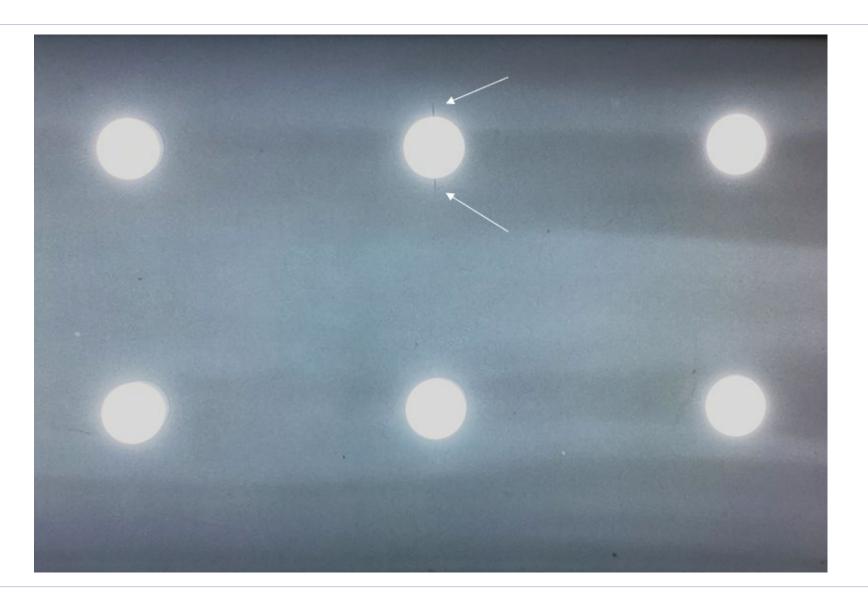




ALI 572157-01

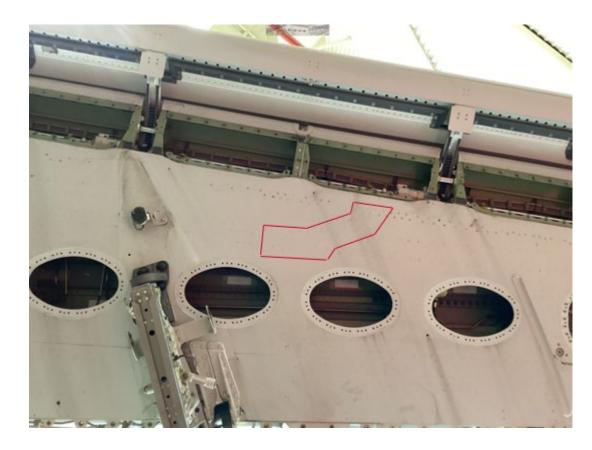
#### RADIOGRAPHIC EXPOSURE CALIBRATIO STANDARD

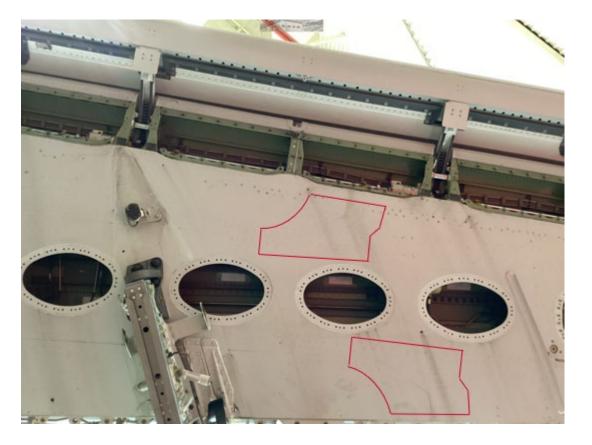




#### COMPARATIVE AREAS OF INSPECTION







AOT A57N024-24 ALI 572157-01



RESPECT

TRUST

COLLABORATION











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