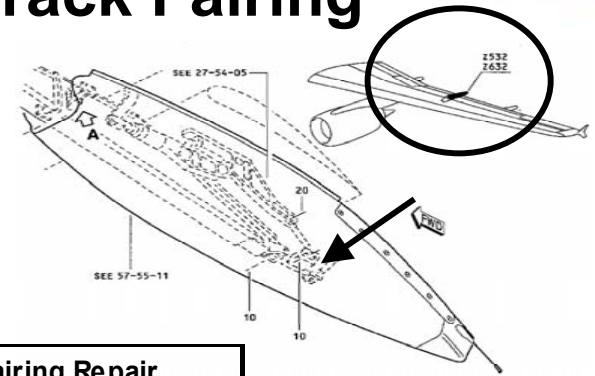


A320F Flap Track Fairing



Flap Track Fairing

The Flap Track Fairing is a canoe shaped structure that rests under the wing and encloses the wing flap deployment mechanism.

- OEM supplied composite materials in a Flap Track Fairing are:
 - 1/8", 4.0 lb hexagonal Nomex honeycomb core
 - 250°F/121.11°C cure, 5H satin weave carbon fiber prepreg, 45% resin

Acetek's Repair Service

Typical Damage:

- Impact: delaminations, cracks, holes
- Moisture Ingress
- Lightning Strike
- Stress/Strain/Fatigue

Inspection Techniques:

- Tap Test and Visual – Standard
- Thermal Graphic
- Through Transmission Ultrasonic (TTU)

Repairable Scenario:

- Assess damage repair requirements vs BER Limits.
- Maximum damage size is 3.152 inches (SRM 57-55).
- As long as damage is within the SRM repairable limits, a core splice and wet lay-up repair is allowed.

Repair Materials:

- 5H satin, 285 g/m2 dry carbon fabric
- Laminating resin Hysol 9396A/B
- Laminating resin Araldite LY/HY5052

Flap Track Fairing Repair

Process

Inspect

Remove Paint (local)

Prepare Repair Disposition Eng.)

Remove Damaged Materials

Clean & Dry Structure (standard)

Inspect - In Process

Taper/Step-Sand Damaged Skin
Plies

Fabricate Core Plug

Install Core Plug - Cure Cycle

Inspect - In Process

Close Out Core - Cure Cycle

Inspect - In Process

Prepare kin Ply Repair Materials Kit

Apply Lay-up Plies - Cure Cycle

Sand and Seal Repair Zone(s)

Review Structure Configuration

Final Inspection