

LOWER SKIN PANEL - WING CENTER TANK

CW-202
C-186
GREEN

This section extends from RBL 98 to LBL ⁶⁹~~50~~ and goes from approx S-1 to S-5.

There is only a 15" long section of the S-5 skin flange remaining on the panel. No other stringer remained attached to this panel. The panel is bent inboard/outboard with the RHS and LHS both bent downward from BL0. The right side is bent down approx 10 degrees and the left side is bent starting at 10 degrees and gradually increasing to about 45 degrees. A portion of the BL0 rib shear tie remains attached. The few rivets remaining in the skin panel exhibit shear in the inboard and outboard direction, but the fasteners at RBL 57.5 at S-2,3 and 4 are bent aft ranging from 45 to 60 degrees.

There is generally no soot in the interface between the stringer and the skin. On the right outboard side of this section (30"), there is evidence of pillowing of the skin between the stringers in upwards direction. There is no evidence of pillowing to the remainder of the skin panel.

The keel beam attachment stiffener at right and left BL 9.0 have pulled away from the lower skin and the fasteners exhibit evidence of tensile failures. There is evidence of sooting on the lower surface of the skin and is heavier on the right side than on the left. There is evidence of some impact and rub marks on the lower surface of the skin panel.

At approximately RBL 77 there is a segment of chord attached to the lower skin from the aft edge of the panel to the forward edge of the panel.

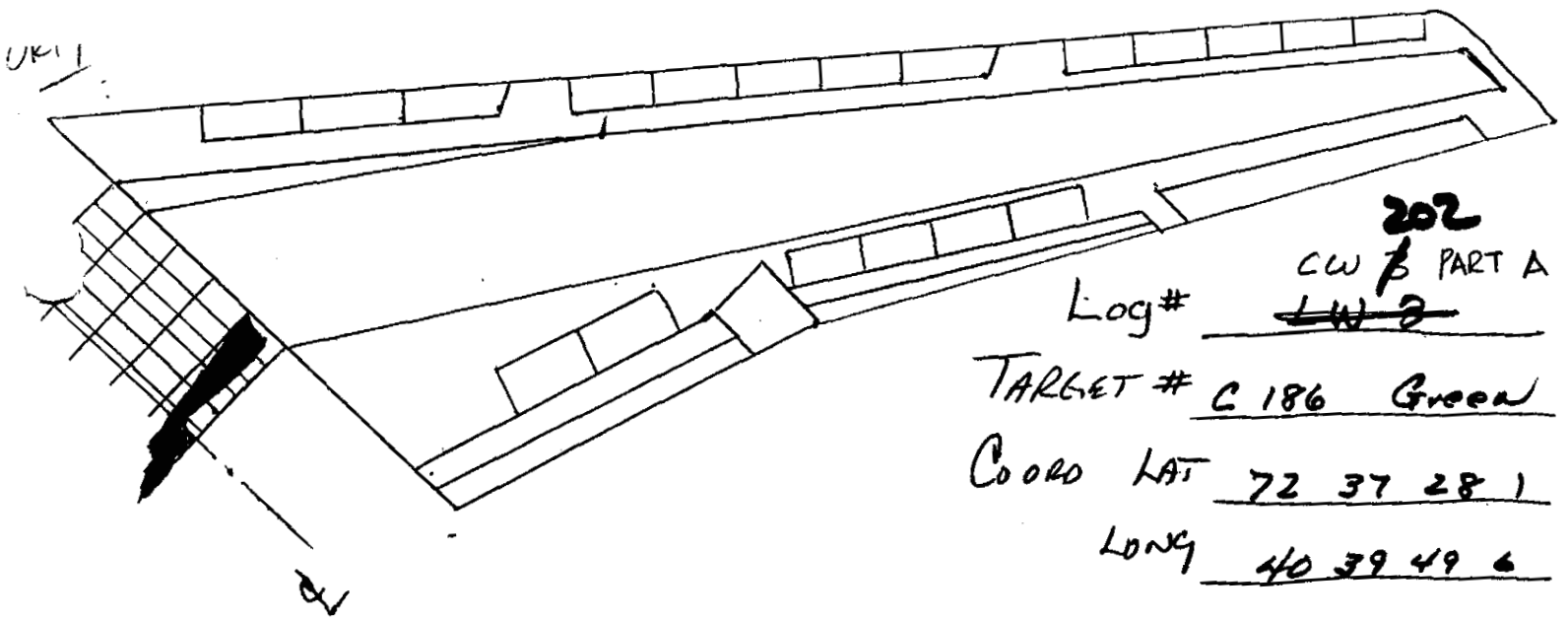
See Fire and Explosion Group notes for further documentation.

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FAA 12-06-96

A. Mepko TWA 12-6-96
R. Bradetti JAM 12-6-96

SD GREEN ALPA 12-6-96

CA Reimer ROEING 12/7/96



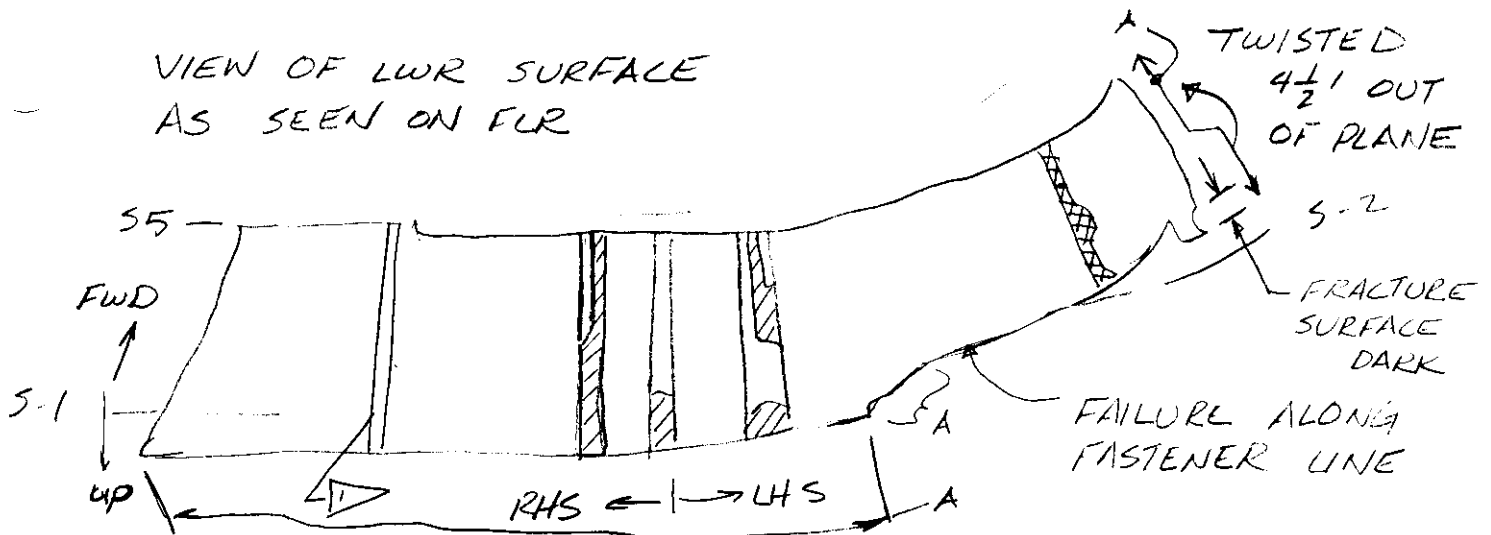
Log# 202
 CW β PART A
~~LW 2~~
 TARGET # C 186 Green
 COORD LAT 72 37 28 1
 LONG 40 39 49 6

DEBRIS FIELD

- ① SKIN is severed aft of ~~#8~~⁵ STR left of BBLO
 AND AT STR ~~85~~⁸⁵ OB of RBL 75.
 RAH
- ② Keel beam AT R & LBL 11 separated from skin.
- ③ Lower RH side OB of the keel beam shows indication
 of soot. on the external skin. Interior skin has indication
 of light soot residue.

PART A BOTTOM SURFACE OF LWR SKIN 5-5

VIEW OF LWR SURFACE AS SEEN ON FLR



WHITE ENAMEL NOT VISIBLE THRU HEAVY LAYER OF OILY/SOOT. WITH HARD RUBBING WITH PAPER TOWEL & MOISTURE, WHITE ENAMEL CAN BE FOUND ENAMEL MORE 'EGG SHELL' IN COLOR THAN PURE WHITE IN 5% OF AREA DOWN TO PRIMER w/o OILY SOOT.

WHITE ENAMEL VISIBLE WITH LIGHT BLACKENING WITH LIGHT PRESSURE & PAPER TOWEL BLACKENING IS REMOVED

A = ANGLED FRACTURE FACE SEE PART G


LAT = 40° 39' 49.6"

LONG = 72° 37' 28"

UPPER SURFACE OF LOWER SKIN

NO STRINGERS THRU-OUT PART, PRIMER FROM UNDER STRINGERS HAS VERY LITTLE BLACKENING, EXCEPT AT LHS END OF PART (LAST 3') SHOWS SOME BLACKENING

 GREEN PRIMER WHERE UNDER WING BEAM TORE AWAY

 GREEN PRIMER WHERE KELL BEAM BOX TORE AWAY FROM WING LOWER SURFACE - SEE LF-14 PART B

PART A {CONT'D}

BETWEEN STR'S, FROM RBL 9 → RBL 101 AND THE MOST OUTB'D 3' ON LHS, HAVE OILY BLACKENING

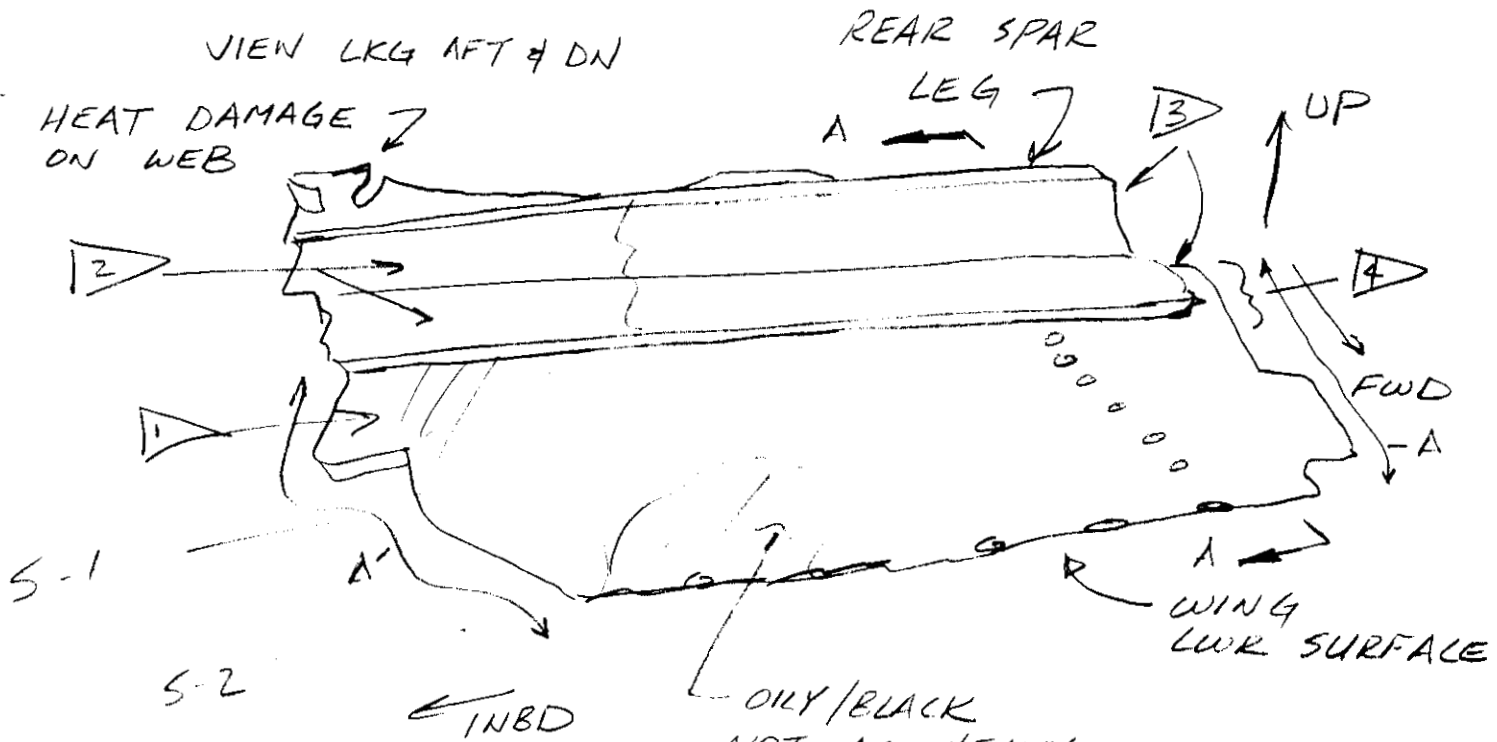
ALL FRACTURE SURFACES ARE FREE OF BLACKENING

▷ CHORD FROM UNDER WING BEAM w/ 2 STIFF'S ATTACHED
SIGNS OF HEAT DAMAGE ON STIFF'S, PAINT ON CHORD
DOWN TO PRIMER

CW-203

PART B - SEE NEXT PAGE FOR SKETCH

- BOTTOM SURFACE IS IDENTICAL TO PART A LHS
- THERE IS A DISTINCT DIFFERENCE BTWN AFT FACE OF VERTICAL LEG OF LWR R/S CHD & WING LWR SURFACE. R/S CHORD AFT VERT. FACE IS DARK WITH DRYISH SOOT. NOTE THE TWO SURFACES ARE SEPARATED BY VAPOR BARRIER PANEL IN DESIGNED CONDITION



1 HEAVY OILING
LIKE OIL PAN ON CAR

2 DRY BLACKENING, ALSO SAND MORE PREDOMINATE

3 DARK BLACKENING ON CHORD

4 MEDIUM AMOUNT OF BLACKENING ON WEB

GENERAL COMMENTS

- ALL OTHER SURFACES FREE OF BLACKENING
FRACTURE



A-A 3" OUT OF PLANE
NOTE INBD END IS STRAIGHT

A = ANGLED FRACTURE FACE - SEE PART G