

WING CENTER SECTION - SPANWISE BEAM # 2

CW-703

A-490

RED

This section is comprised of an access door and a small piece of web attached to the upper end of the door.

This section of the door is from RBL 33.00 to RBL 11.00. The rivets which attach the door to SWB2 had failed in shear and tension at various locations. A detailed sketch explains the location and condition of the rivets. This door section is in S shape and when assembled with CW-702, it exhibits bending in a forward direction ~~from~~ <sup>at</sup> the lower half of the door. The left corner of the door is bent aft. There is a tear (noted on the sketch as a penetration flap) with 3 penetrations exhibiting forward direction.

There are soot deposits on the fwd side of the door. See the fire and explosion group report for complete documentation.

*W. J. ...* 11-24-76  
*TWR*

*W. J. ...* 11/1/96 FAA  
*10/31/96 BOEING*

*Ch. J. ...* 11-25-96  
*IAN 'D GREEN 11/01/96 ALPHA*

SPANWISE BEAM #2 MFG DOOR

CW-703 A-490 (RED)

(65B10690-1, 7075-T651)

DOOR & WEB SECTION  
CLEAN, BOTH SIDES

ALL RIVETS  
PULLED THRU  
TO REAR

SB#2  
WEB

Ø OF 12" RAD

12" RAD

TOP 3 RIVETS  
PULLED THRU  
IN TENSION  
11 O'CLOCK

5 O'CLOCK  
SHEAR DIR  
(TOP RIVETS)

SIDE  
VIEW  
(ALONG RAD Ø)

8" RAD

MATING FASTS  
PULLED THRU  
IN TENSION (7 HOLES)

FLAPPED  
HOLE

FLAPPED HOLE

RIVETS PULLED THRU  
IN UPR HALF (BOTH LOCS)

PENETRATION FLAP  
(WITH 3 PENETRATIONS  
ACTING FORWARD)

HOLE

Ø OF RAD

PENETRATION  
FLAP  
ALL EXCEPT TOP 3  
RIVETS ON THIS EDGE  
SHEARED BETWEEN  
DOOR AND STIFFENER  
(RIVETS REMAIN IN STIFFENER)

RIVETS AT BOTTOM  
SHEARED VERTICALLY

CORNER BENT AFT  
45° AT FAST LINE

RIVET  
SHEARED IN  
( ) DIRECTION  
BETWEEN DOOR  
AND WEB

SHEARED IN  
11 O'CLOCK  
DIRECTION  
5 O'CLOCK

⊕ ~ HEAD OF RIVET

○ ~ OPEN HOLE

RBL  
25.2

RBL  
17.2

FRONT VIEW

9/11/96 R1  
D. ORTH  
~~9/9/96~~