

CHAP 2 AIRFRAME SP 125 AL SHEET 1 OF 8	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition								
Structural Overheating - Barcol Hardness Testing		AFSC 53450								
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		TIME EST								
SPECIAL TOOLS AND EQUIPMENT Barcol hardness tester (4A/2517). Abrasive paper, waterproof, silicone carbide, Grade 320C. (33J/1293939). <div style="text-align: center; font-size: 1.2em; font-weight: bold;">53450</div> <p>NOTE 1: This Servicing Procedure must be carried out when it is evident that structural overheating has taken place, indicated by sooting, paint blistering, thermal discolouration etc., or when called for on routine servicing.</p> <p>NOTE 2: Specific test areas are shown as Figs. 1 to 5.</p> <p>NOTE 3: Datum hardness numbers are as follows:- Fig.1. detail A, test areas, A4/1 and A4/2 Barcol No.83. Fig.3. detail D, test areas B4/1 and B4/2 Barcol No.80. Fig.5. detail S, test areas D6/1 Barcol No.83.</p> <p>NOTE 4: Maintenance supervisor:- if the recorded Barcol numbers are below the following minimum report the results to:- British Aerospace, Saudi Technical Support</p>		ASSOCIATED PROCEDURES								
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Test Area</th> <th style="padding: 5px;">Minimum Barcol Number</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">A4/1 and A4/2</td> <td style="padding: 5px; text-align: center;">81</td> </tr> <tr> <td style="padding: 5px;">B4/1 and B4/2</td> <td style="padding: 5px; text-align: center;">78</td> </tr> <tr> <td style="padding: 5px;">D6/1</td> <td style="padding: 5px; text-align: center;">82</td> </tr> </tbody> </table>			Test Area	Minimum Barcol Number	A4/1 and A4/2	81	B4/1 and B4/2	78	D6/1	82
Test Area	Minimum Barcol Number									
A4/1 and A4/2	81									
B4/1 and B4/2	78									
D6/1	82									
Continued Overleaf										
SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS										

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NOTE 5: Excluding test areas shown in this Servicing Procedure as a general guide, Barcol Numbers obtained for aluminium alloys should have a minimum value of 83 except for aluminium alloy to Specification L72 which should have a minimum figure of 82. If figures obtained are below these minimum values, report the findings to:-

British Aerospace,
Saudi Technical Support Dept.,
Warton,
Lancashire,
England.

1. PREPARATION

NOTE: In Sub-item 1.1 the test area must be approximately 0.5 square in.

1.1 Test area:-

(a) Local finish.

Remove with trichlorethylene. Remove self-etching primer and aluminium cladding by lightly rubbing down with 320C grade abrasive paper, taking care to prevent dishing.

(b) Anodised parts.

Remove anodising by lightly rubbing down with 320C grade abrasive paper, taking care to prevent dishing.

NOTE: Sub-item 1.2 is applicable only on subsequent tests.

1.2 Test area.

- (i) Remove local finish with trichlorethylene.
- (ii) Remove self-etching primer by lightly rubbing with 320C grade abrasive paper, taking care to prevent dishing.

1.3 Barcol hardness tester.

Check for correct indication against standard block provided.

Continued

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2. TESTING

NOTE: Sub-items 2.1 and 2.2 must be carried out three times.

2.1 Barcol hardness tester. Apply to test area with a light pressure ensuring that the indenter is perpendicular to the surface.

2.2 Tester dial. (i) Note readings obtained.
(ii) Record hardness number.

2.3 Datum hardness number. Compare with reading obtained in Sub-item 2.2 (See NOTE 3).

NOTE: Item 3 is applicable only if reading recorded in Sub-item 2.2 is below the datum number after a re-check.

3. REPORTING

3.1 Suspect test area. Maintenance supervisor (See NOTE 4).

4. GENERAL

4.1 Test area. (i) Apply self-etch primer.
(ii) Apply local paint finish.

Continued Overleaf

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SP 125 AL

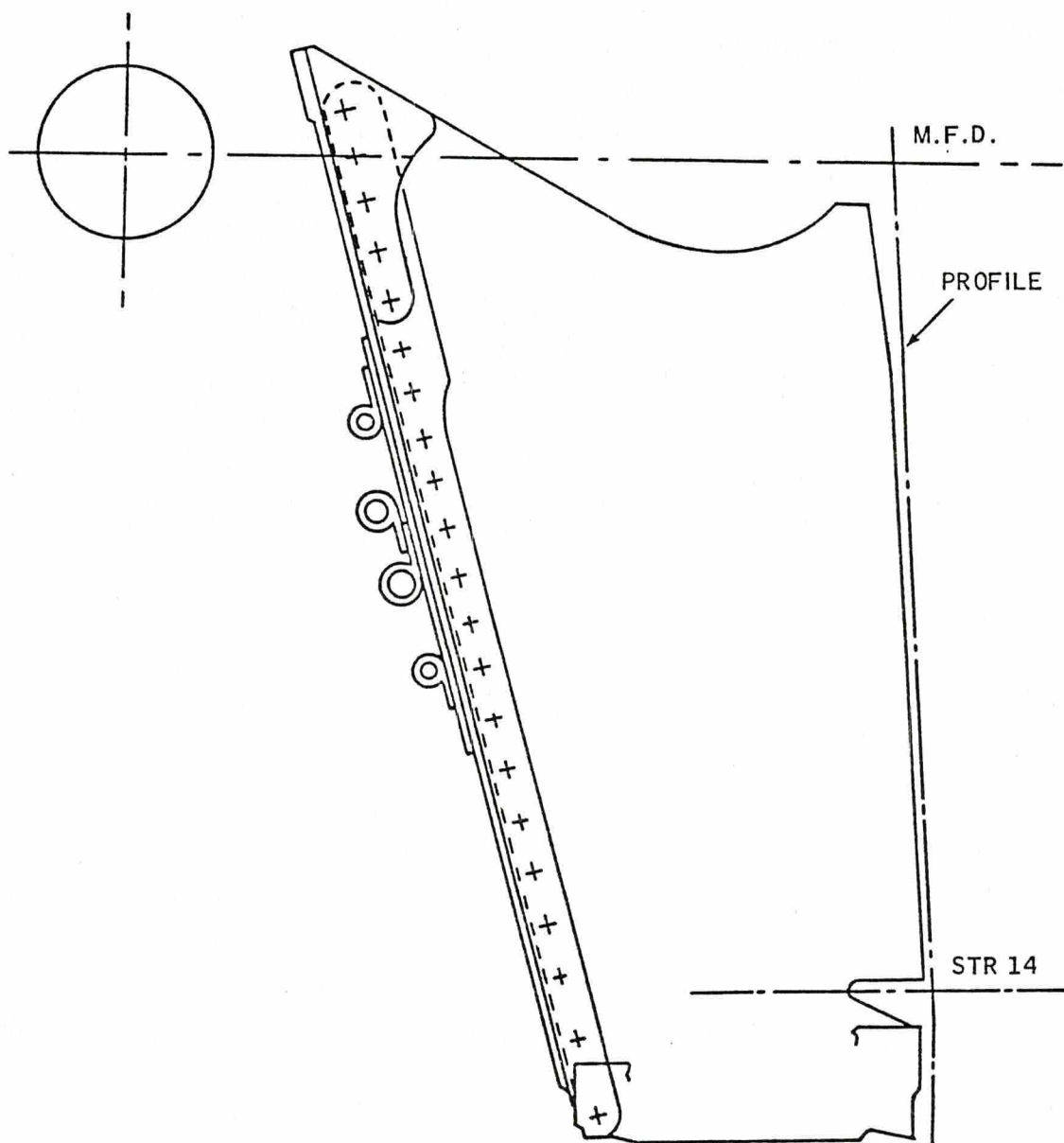
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DETAIL 'A'

LOOKING FORWARD ON FRAME. 36 - RIGHT

BARCOL TEST AREAS

FIGURE 1

Continued

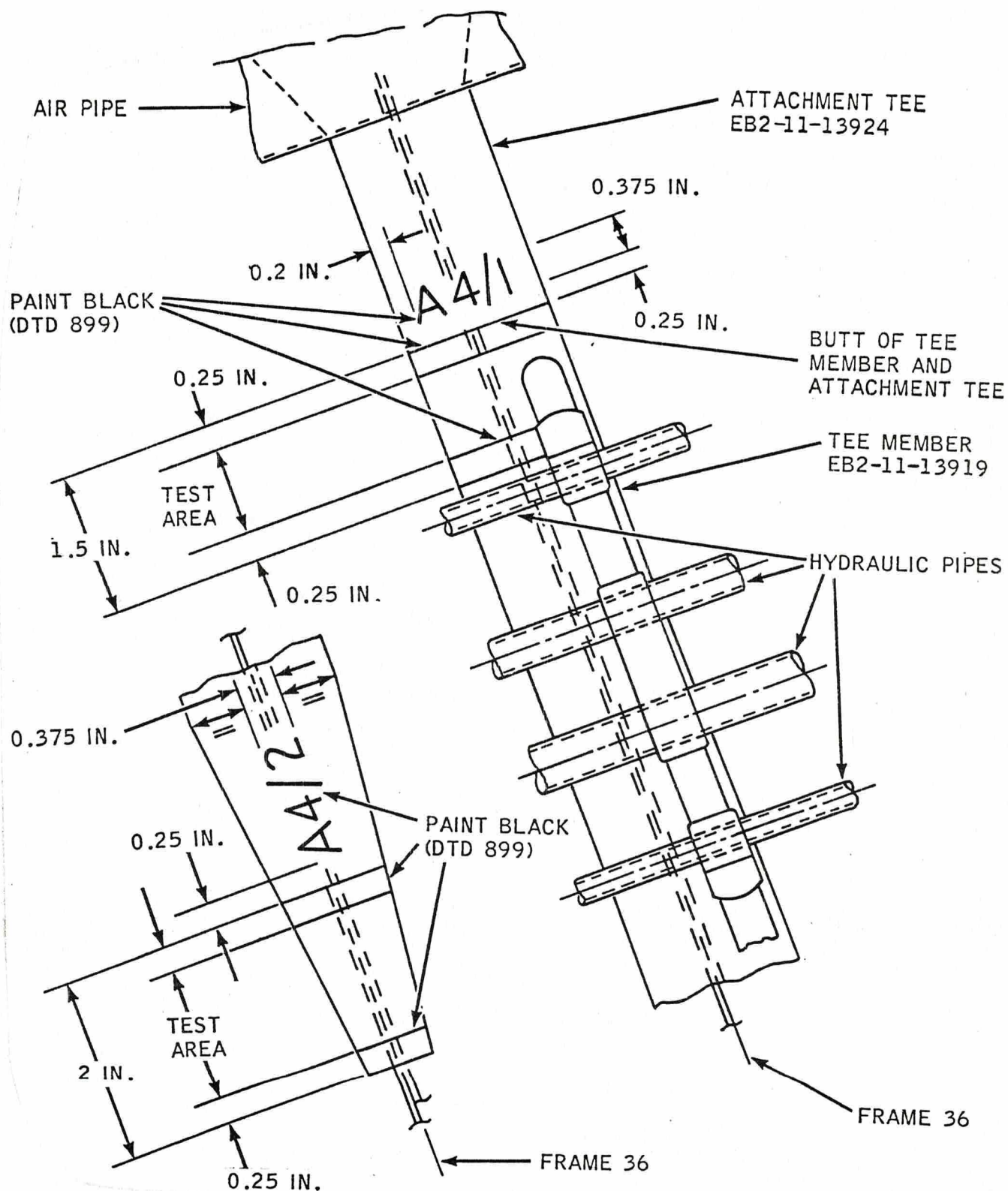
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BARCOL TEST AREAS

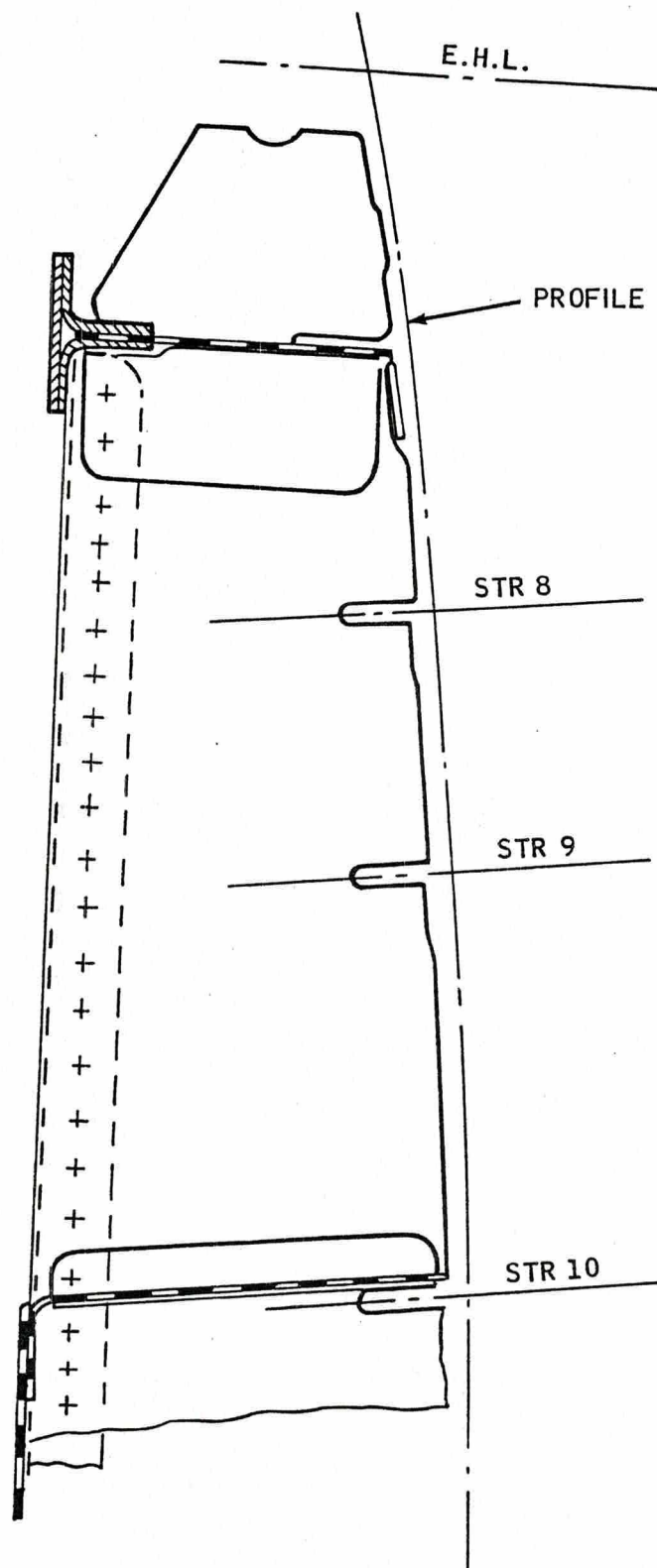
FIGURE 2

Continued Overleaf

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BARCOL TEST AREAS

FIGURE 3

Continued

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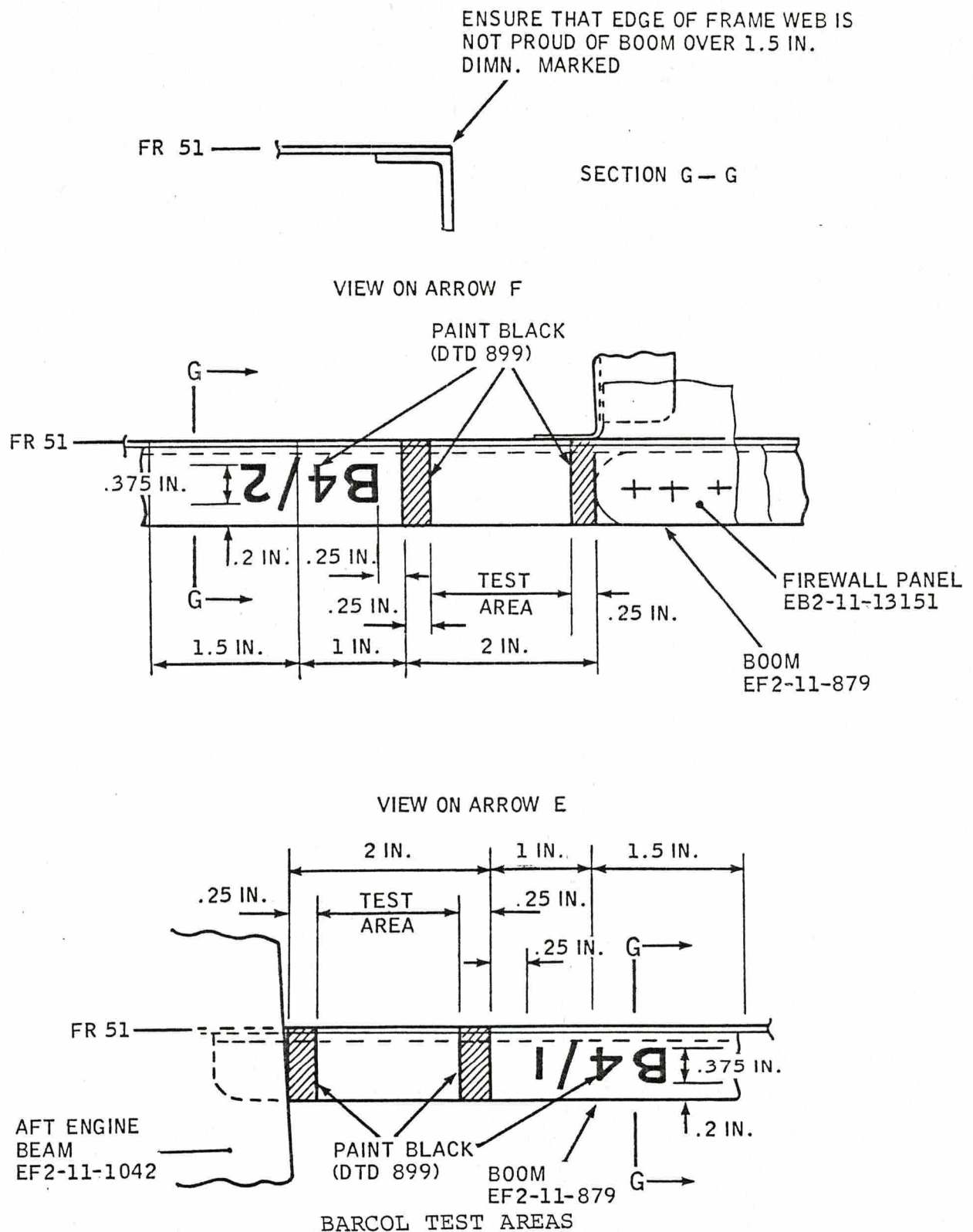


FIGURE 4

Continued Overleaf

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SERVICING PROCEDURE

F53

T55

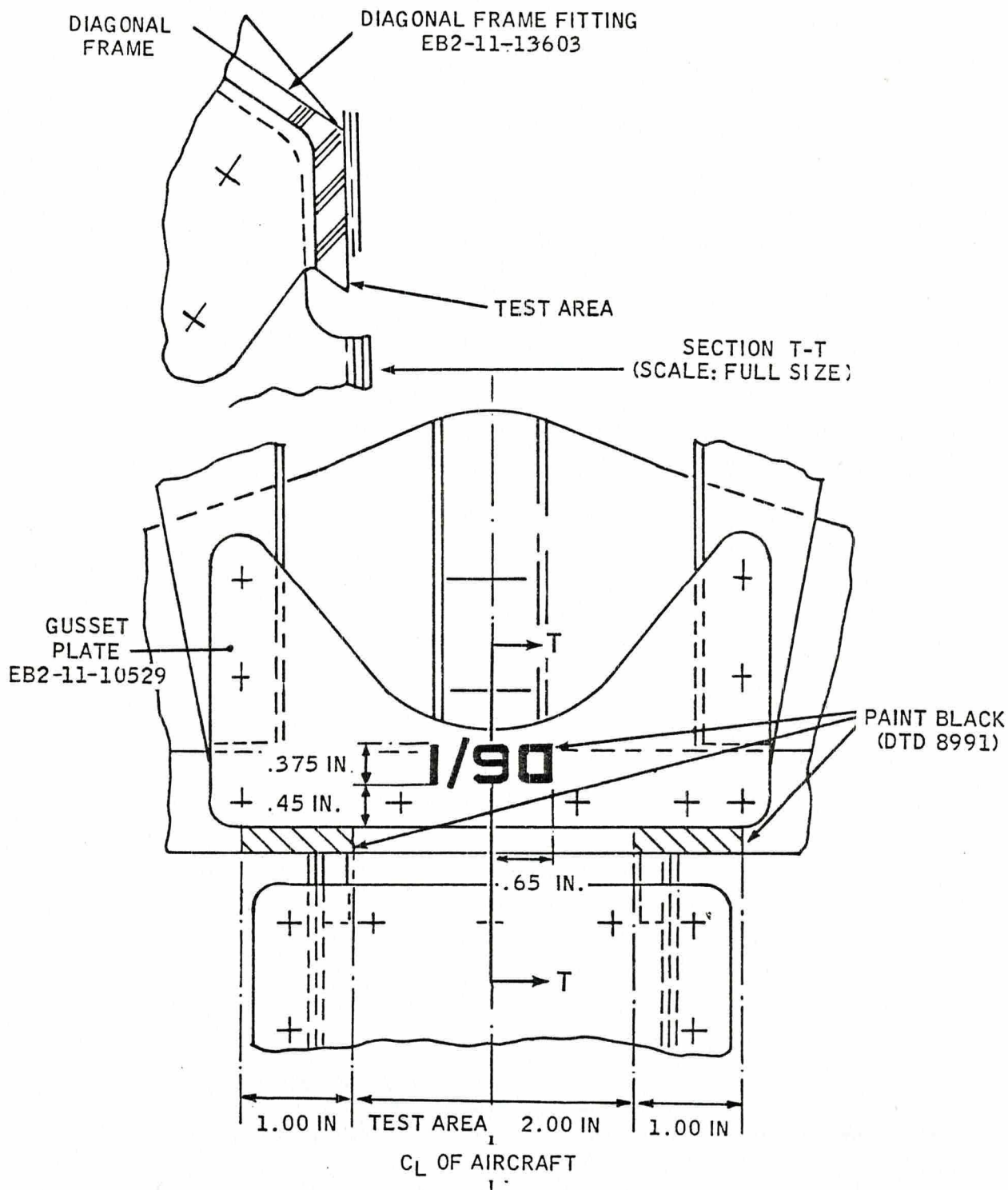
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DETAIL 'S' LOOKING OUTBOARD ON DIAGONAL FR. AT TOP CENTRELINE



BARCOL TEST AREAS

FIGURE 5

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