PART 2 - X-RAY

FORWARD FRAME MEMBER IN NOSE COWL

1. Purpose

A. To detect fatigue cracking of the forward frame member in the engine nose cowl. See Figure 1.

B. Cracks are large and may occur in the frame web and generally are located in the lower portion of the cowl. However, inspection should cover 360°.

C. This procedure is suitable for use on the airplane with the part in place. No removals are required.

2. Equipment

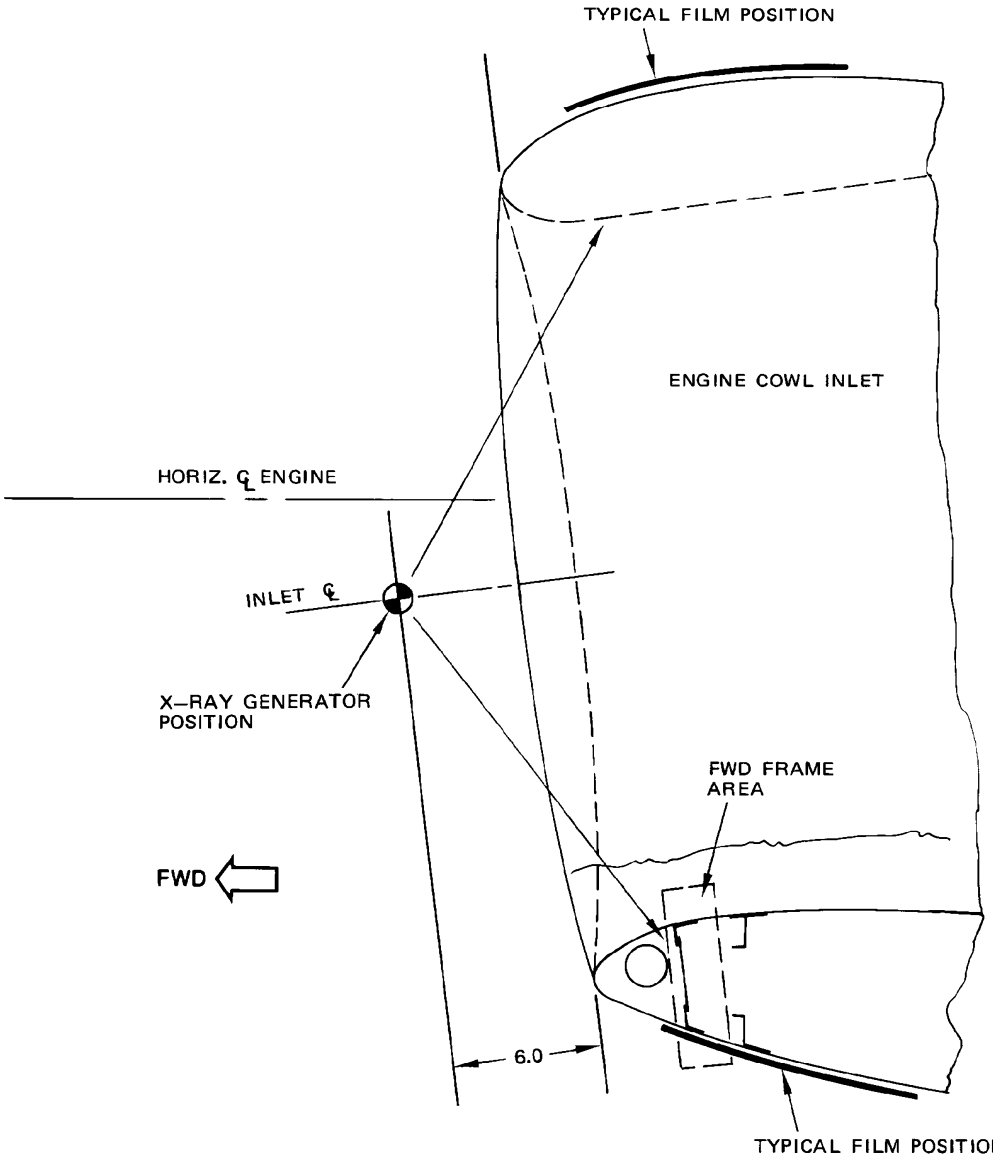
A. The equipment used to develop this procedure is as follows:

(1) Balto 150 kV, 360 Degree X-ray Generator

3. Prepare for the Inspection

A. Place identification tape on outer surface of cowl.

B. Place film (either 14 x 17-inch sheet or strip) on the outside of the cowl in position to allow for projection of the X-ray image of the frame.



X-RAY PARAMETERS						
EXPOSURE NUMBER	FILM			SFD (INCHES)	GENERATOR SETTING	
	POSITION	ASTM CLASS	SIZE (INCHES)		KV	MAS
1	1	I	1	44	85	360

NOTES
- ALL DIMENSIONS ARE IN INCHES

1 14 x 17-inch sheet or strip

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X-Ray Generator and Film Positioning
Figure 1