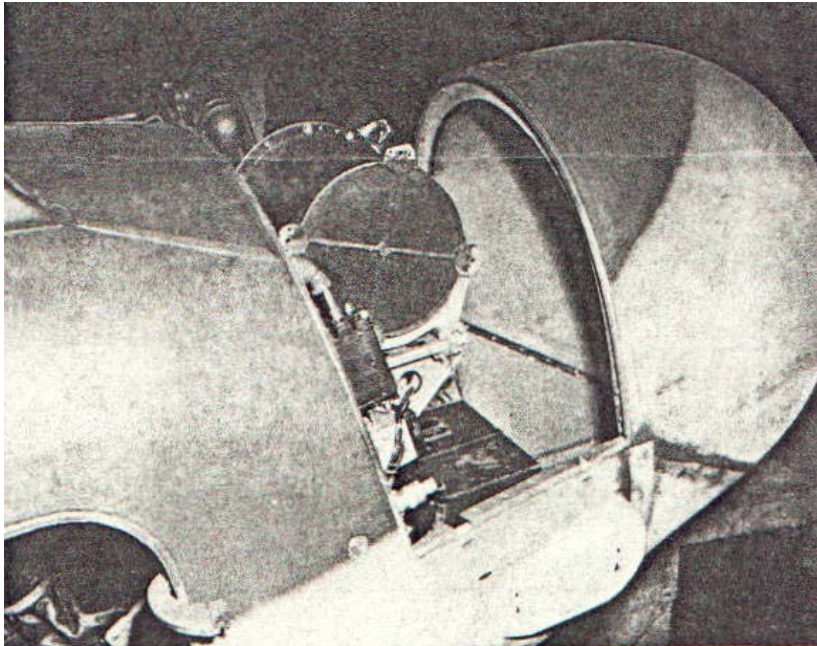


The eyes of the NF-30: the AI (Airborne Interception) Mk X



The Mosquito NF-30 is a night fighter.

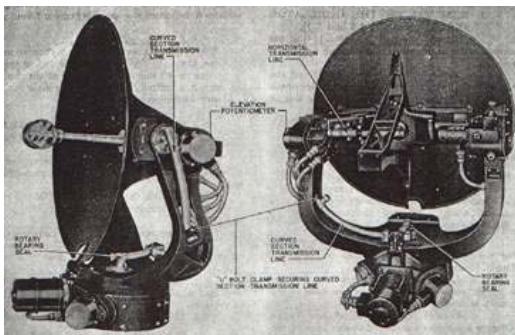
And a night fighter is next to nothing without its Airborne Installation device.

The NF-30 was equipped with a AI Mk X system. Of American origin, it was initially called SCR 720.

Information and pictures relating to Airborne Interception systems (or radar as we call it nowadays) are scarce because of security reasons at the time of war.

Add to that the fact that this radar was later used in Meteor NF-11 till 1960 and you will understand why pictures of NF-30 radar installations are almost non-existing.

In this picture you can see the plastic upper section of the radome, a camera gun fairing below the access hatch, the windscreen wiper motor against the aft bulkhead and the high frequency unit of the AI Mk X radar.



The most visible part of the radar, a parabolic dish, is installed in the nose of the plane. This parabolic dish rotates continuously round its vertical and horizontal axis.

A small vertical dipole, in its centre, is used for both transmission and reception.



The "end" part of this equipment is the operator's indicator on which there are two screens: one showing relative height of the target and the other showing relative bearing.

A range marker line, adjustable by the operator, can be moved up and down the trace to select a particular target.

Only when this marker line overlays the target does the target appear on the left hand 'C' tube.

But the radar was a lot more than those two components. And there wasn't only the AI Mk X to be installed in the NF-30: a secondary radar, used for navigation, was installed in the NF-30, the SCR 729. It was composed of an emitter-receiver, an antenna for the transmission under the fuselage and two antenna for the reception at the wing tips.

The hereunder list and picture gives you an idea of what looked like a full radar set and what other equipment was installed in the Mosquito NF-30

S.C.R. 720 items

Item	Description
SC	Scanner Unit
HF	High Frequency Unit
IO	Indicater observer's
SY	Synchroniser
CB1	Control Box
JB	Junction Box
HV	High Voltage rectifier



- PU Power Unit
- RR Regulated rectifier
- M Modulator
- B Blower
- S Suppressor type "P"

S.C.R 729 Items

- TR
- IU
- CB2
- A

S.C.R. Existing on A/C

- AS Aerial Starboard
- AP Aerial Port
- CP Control Panel
- VR Voltage regulator
- R Receiver R3078

All those devices (radio modulator, radio-frequency units, control boxes, ...) were quite cumbersome. We are far from miniaturized components !

These were scattered in the plane as shown in this manufacturer's drawing (Note: hotspot area reveal the

names of the components).

