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A. HUDSON III INSTALLATION.

(1) CAMERA MOUNTING.

In the Hudson III the P.24 camera with mirror attachment is fitted on a Type 25 mount in basket framework. This basket is part of the Aircraft's accessories but is modified to be removable (see Photos). The basket was moved towards the centre of the A/C for more suitable positioning of the camera in relation to the camera port (see Photos). Hedge plates are mounted on the inside of the basket to take the camera driving motor etc. The rails to which the Type 25 mount is secured are made adjustable to three positions (see Photos). For use with the mirror camera, these rails are placed at their lowest setting.

A canvas apron is fastened to the bottom portion of the basket (see Photograph) and an opening cut to fit the lens cone snugly. This arrangement excludes the draft that would otherwise come up through the camera port.

The basket arrangement is secured by means of two flat rods which are drilled with a number of tapering slots which fit on a corresponding number of projecting screws on the aircraft frame. When the rods are pushed lengthwise the tapering slots ride under the flat headed screws and effect a locking action. This permits removal of all camera accessories without moving the camera on its mounting.

CAMERA ACCESSORIES.

These consist of:-

- (1) P.24 camera with the High Speed Universal gear box and the mirror attachment.
- (ii) Motor and Flex drive.
- (iii) No. 1 power lead modified with a 5 way plug.
- (iv) No. 4 Motor lead.

NOTE: The modification applied to the #1 power lead includes a 5 way plug to which is attached the power lead to #1 and #2 terminal and a short single lead to #4 terminal. To the free end of this short single lead to #4, a screw type receptacle is attached.

AIR SCOOP.

An Air Scoop (see Photo) is mounted on the belly of the A/C to give protection to the projecting mirror. This protects the mirror from vibration due to the air stream and also diverts foreign matter from settling on the mirror surface.

RELAY.

This relay, which has a coil resistance of 3 ohms and contacts which carry up to 4 amperes current is placed in the bomb circuit--the coil being in series (see diagram). One contact is connected to terminal #27 strip #16 in the bomb aimer's panel and on the 5 way plug. A single lead approximately 20 feet in length connects the relay to the camera.

The relay is mounted in the bomb aimer's panel.

POLARITY is very important and all three power inlets should be tested on initial installation of the mirror camera.

ADJUSTMENTS.

The mirror is adjusted so that it is approximately 15 degrees off of the vertical when the A/C is in flying position.

Visually truing the angle of view is accomplished

by:-