

Navigational Indicators



NAVIGATIONAL INDICATORS

MODEL S 114

For use with the S.C.S.51 Instrument Landing System

This indicator comprises four separate microammeters contained in a large S.A.E. case. Two are used to indicate navigational position, whilst the other two operate the monitor flags.

The vertical pointer has its movement pivot centres at the top of the case, and denotes deviation from azimuth. The other pointer is horizontal with its movement pivot centres at the left, when viewed from the front, and indicates departure from glide path.

The other two movements carry monitor flags. These show in a positive manner whether or not the indicator movements are working satisfactorily. When these movements are unoperated the flags obscure the ends of the adjacent pointers but, when operated, carry the monitor flags behind the front screen where they are no longer visible.

Connection to the I.L.S. receiver is normally made through a Mark IV 12-way plug and socket.

All movements are insulated from earth and from each other to withstand a potential of 250 volts d.c. Internal metal parts are insulated to withstand a potential of 1,000 volts a.c. applied between the movements and any external part, including a screwdriver held in either zero adjusting screw.

The pointers are set by weatherproof zero adjusters fitted to the cover. Care must be taken to slacken off the hollow screws before the inner adjusting screws are moved. After setting the pointers, the hollow screws must be locked in a clockwise direction on their washers.

The centre of the dial is marked with a circle $\frac{1}{4}$ in (6 mm) mean diameter, $\frac{5}{64}$ in (2 mm) thick. On a horizontal line passing through the centre, eight dots $\frac{5}{64}$ in (2 mm) diameter are marked, four on each side of the circle. Eight similar dots are marked on a vertical line. The distances of these dots from the centre of the $\frac{1}{4}$ in (6 mm) diameter circle are $\frac{1}{4}$ in (6 mm), $\frac{3}{8}$ in (9 mm), $\frac{1}{2}$ in (13 mm) and $\frac{5}{8}$ in (16 mm).

These dial markings are in fluorescent paint on a matt black background.

Shape:- Large S.A.E. case Case depth = $4\frac{1}{2}$ in (114 mm) approx.

Weight = 1.3 lb (595 g) approx.

Fixing Diagrams = FD.854, 855 and 860 (depending on method of connection)

MODEL S 178

2 inch Miniature Homing Indicator

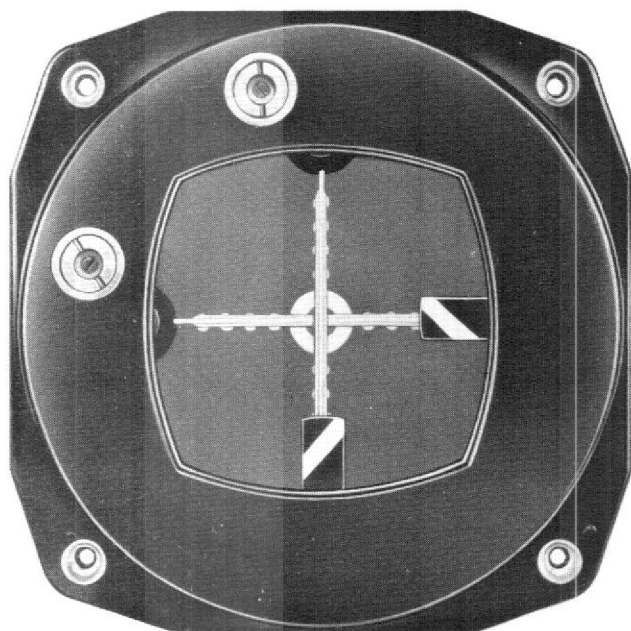
This miniature Homing or I.L.S. indicator is used in conjunction with electrical and radio aids to indicate the departure of an aircraft from azimuth and glide path tracks. It has been designed in conformity with Ministry of Supply, Specification EL.1724.

Two indicators and two monitors are contained in the same case. The vertical pointer gives an indication of azimuth bearing, and the horizontal pointer indicates glide path position. The two monitors show positively whether or not the indicator movements are functioning correctly.

The Form 1 sealed version is fitted with a 10 pin Cannon Plug.

The Form 2 unsealed version is fitted with a Plessey type plug.

Weight of indicator = 10 oz. (283 g) approx. Fixing Diagrams = 972 and 814



*Model S 114 Form 6
Typical Presentation*



*Model S 178 Form 1
Typical Presentation*

This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

