# *RADAR DISPLAY ROOMS*

The operational function of the Radar Display Room is to provide a position in the Action Information Organisation for Radar reporting, interrogation and height-finding. The equipment of all new warning, interrogation and height-finding radars has been designed so that they can be operated from the R.D.R.

In addition the R.D.R. provides a position for technical supervision of warning radars.

The diagrams opposite show in schematic form the remote displays associated with Radar Types 960, 277 and 293 and with Radar Types 960, 980, 981, 293, in the Action Information Organisation, overleaf are shown typical layouts of Radar Display Rooms for various combinations of Radar Equipment.

*TYPES* 960/277/293

The remote display requirements of the R.D.R. are :—

| | |
|---|---|
| (i) *Air Reporting Long Range* ... ... ... ... | *Coupled pair P.P.I's displaying Type* 960. |
| (ii) *Air Reporting Low Cover* ... ... ... ... | *P.P.I. displaying Type* 277.<br>*P.P.I. displaying Type* 293. |
| (iii) *Surface Reporting* ... ... ... ... ... | *P.P.I. displaying Type* 277.<br>*P.P.I. displaying Type* 293. |
| (iv) *Interrogation (Subsidiary use Classification)* ... ... | *U.D.U. displaying Types* 960/277 *on P.P.I. and* 242*P on lower trace of A scan.* |
| (v) *Height Estimation* ... ... ... ... ... | *U.D.U. displaying Type* 960 *with a V.C.D.* |
| (vi) *Height-finding* ... ... ... ... ... ... | *P.P.I. azicator displaying Type* 960.<br>*H.P.I. displaying Type* 277. |

It should be noted that in Battleships and Cruisers the Vertical Coverage Diagram will in general be on the Control Desk and the Control Officer will also carry out the duties of the Height Filterer.

*TYPES* 960/980/981/293

The remote display requirements of the R.D.R. are :—

| | |
|---|---|
| (i) *Air Reporting Long Range* ... ... ... ... | *Coupled pair of P.P.I's displaying Type* 960. |
| (ii) *Air Reporting Low Cover* ... ... ... ... | *P.P.I. displaying Types* 980/981. |
| (iii) *Surface Reporting and Surface Classification* ... | *P.P.I. displaying Types* 980/293.<br>*U.D.U. displaying Types* 980/981. |
| (iv) *Interrogation and Air Classification* ... ... ... | *U.D.U. displaying Types* 960/980/981 *on the P.P.I. and the* 242*P on the lower trace of A scan.* |
| (v) *Height Estimation* ... ... ... ... ... | *U.D.U displaying Type* 960 *with V.C.D.* |
| (vi) *Height-finding* ... ... ... ... ... ... | *U.D.U. displaying Type* 980 *azicating Panel* L48 *(HPI) displaying Type* 981. |

*PRINCIPLES OF R.D.R LAYOUT*

The principles of any R.D.R. layout are :—

(i) *The Officer-in-Charge should be placed in such a position that he is able to supervise the functioning of the R.D.R. and view all the displays with the least disturbance.*

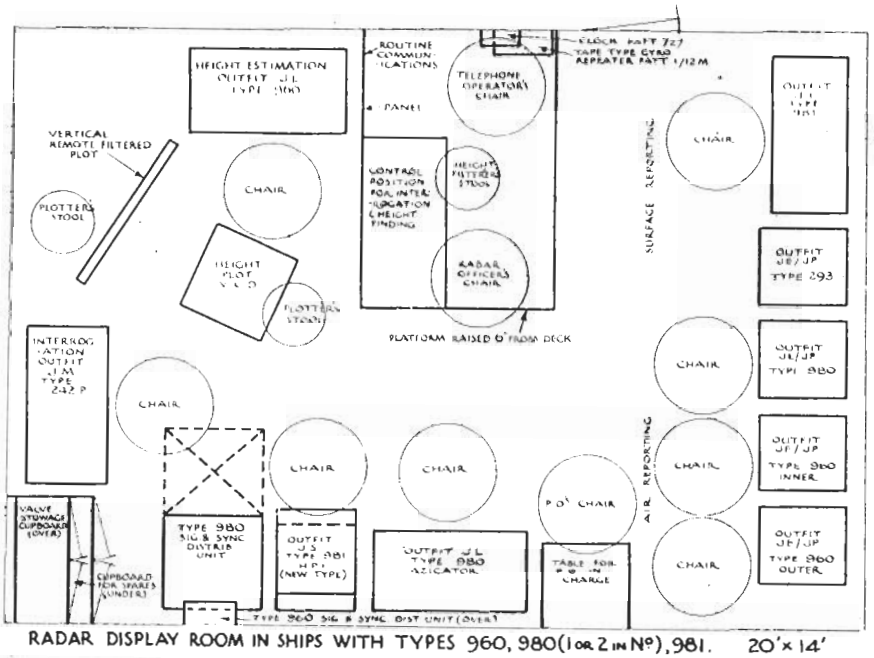
(ii) *The Interrogation and Height Estimation U.D.U. operators should be able to identify with ease the track numbers of the plots with which they are concerned. For this reason they are situated above the filtered plot as shown in the typical layouts.*

(iii) *The V.C.D. plotter should be adjacent to the Height Estimation U.D.U. to reduce the noise level in the R.D.R.*

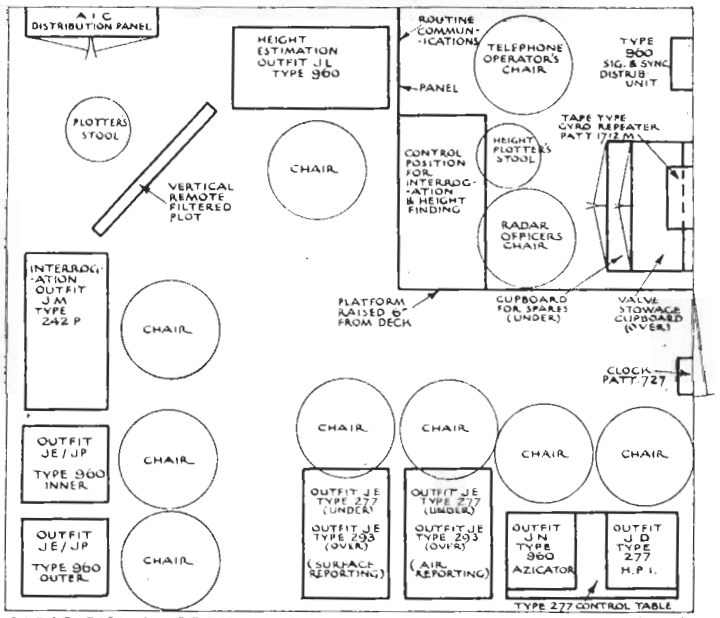
(iv) *The* 277 *training control operator should be positioned so that he can conveniently view both a* 277 *and a* 293 *P.P.I. if possible.*

It should be noted that in the present proposed layouts the Officer-in-Charge of the R.D.R. is still named the Radar Officer. With the introduction of the Electrical Branch this will no longer be the case. The Officer-in-Charge will probably be the Bosun P.R. and so either an additional position in the R.D.R. will have to be found for the Officer-in-Charge of the maintenance of the Ship's Radar equipment, or another position in the ship from which he can supervise the technical functioning of the Radar equipment.

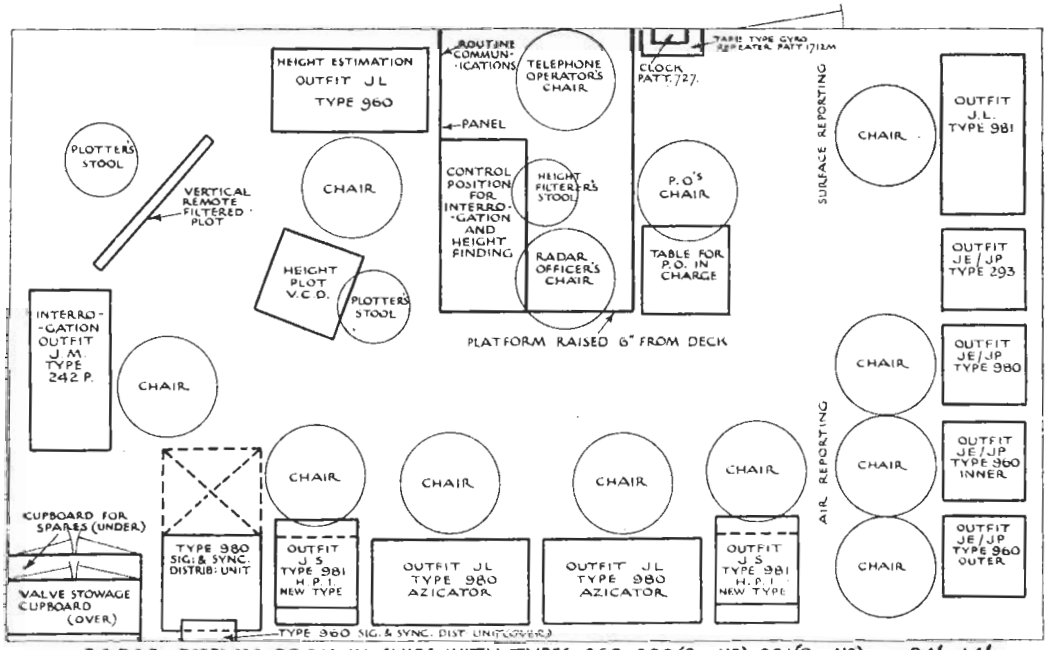
# DISPLAY ROOM LAYOUTS




RADAR DISPLAY ROOM IN SHIPS WITH TYPES 960, 980(1 OR 2 IN Nº), 981. 20'×14'

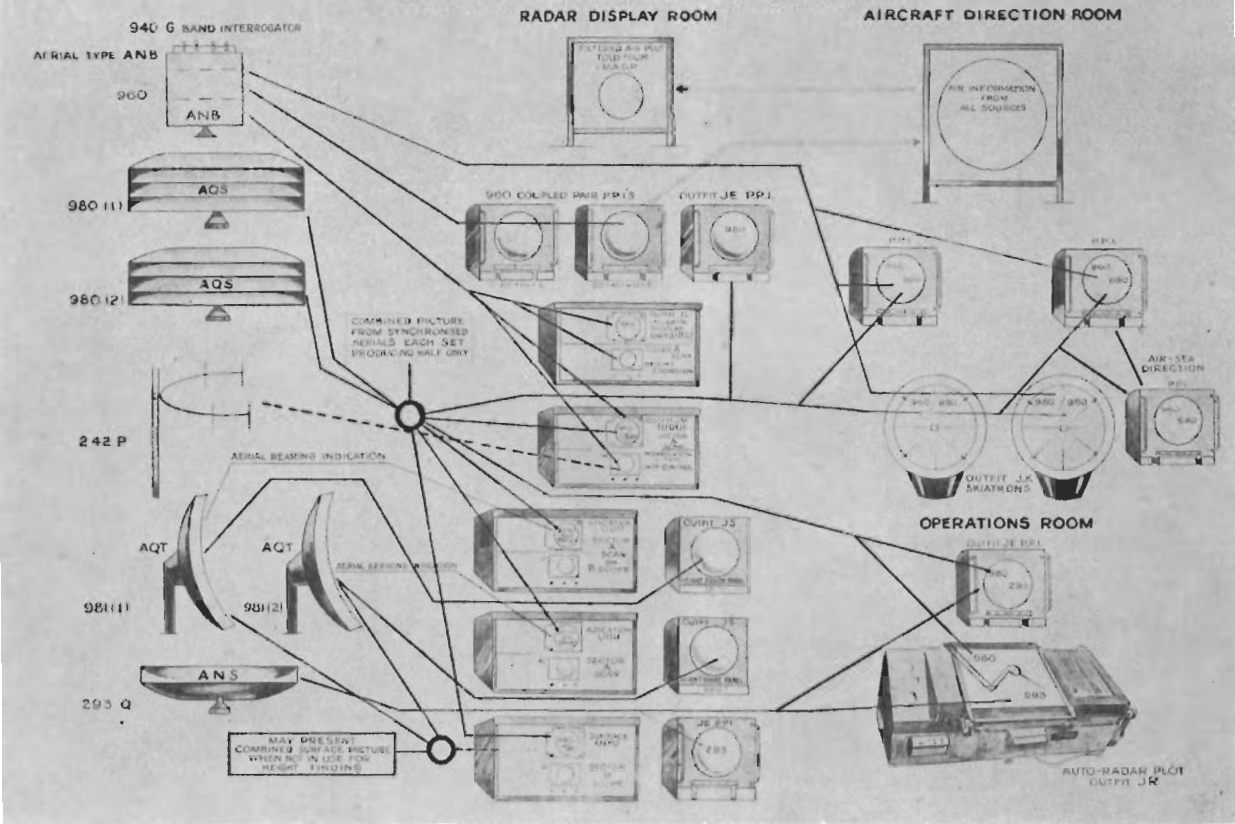
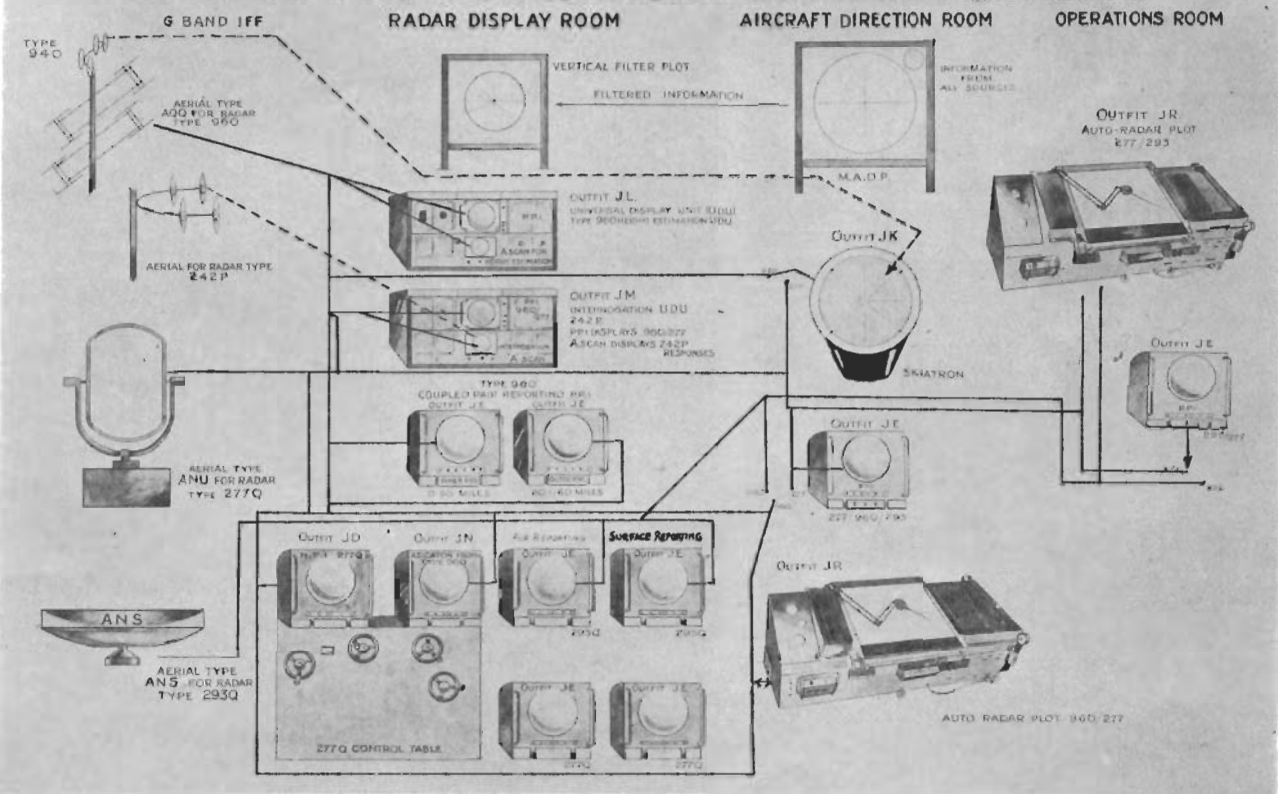



RADAR DISPLAY ROOM IN SHIPS WITH TYPES 960, 277, 293. 16'×14'




RADAR DISPLAY ROOM IN SHIPS WITH TYPES 960, 980(2 IN Nº), 981(2 IN Nº). 24'×14'.

# TYPES 960/980/981/293 AND ASSOCIATED DISPLAYS IN R.D.R. AND IN A.D.R. AND OPS ROOM



# TYPE 960/277Q/293Q & ASSOCIATED DISPLAYS IN RDR ADR & OPS ROOM FOR BATTLESHIPS & CRUISERS