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3. Select the correct printer if necessary.

4. In the area marked “Print Range” click on the radio button marked “Pages from..”, then enter the first and last page numbers worked out in step 1 into the “from” and “to” boxes.

5. In the “Page Handling” area, next to “Page Scaling”, select “Fit to paper”. The press “OK”

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Richard Hankins, VMARS Archivist, Summer 2004
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RESTRICTED

B.R.1616(2)

HANDBOOK FOR TYPE 612 SERIES

VOLUME II

DIAGRAMS

RADIO EQUIPMENT DEPARTMENT,
ADMIRALTY.

MAY 1948. (R.E. 39/46)
**AMENDMENTS**

When an amendment to this handbook is promulgated, the brief details required below are to be filled in.

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ADMIRALTY, S.W.1.

6th May, 1948.

R.E. 39/46

B.R. 1616(2) (Restricted) "Handbook for Type 612 Series, Volume II, Diagrams, 1948", having been approved by My Lords Commissioners of the Admiralty, is promulgated for information and guidance.

By Command of Their Lordships,

[Signature]

To Flag Officers and Commanding Officers of H.M. Ships and Vessels concerned.
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TYPICAL ARRANGEMENT
DESTROYERS' EMERGENCY EQUIPMENT

AERIAL TUNING UNIT

TRANSMITTER SAH

MODULATOR UNIT

RECEIVER B 46
RECEIVER  B46

TOP VIEW WITH LOCAL OSC. REMOVED
RECEIVER B46

POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN

ENGAGE WHEN UNIT IN POSITION

PLUGS & SOCKETS

C

G

D

C401  RL1  V2  V3

TRIMMING TOOLS

C16  L9  C15  L6  C14  L5

L116  C108

C7  L8  C5  L5  C3  L2

C129

C29

V206  V203  V204  V202  V201

L7  L4  L1
RECEIVER B46
I.F. AND R.F. UNITS
RECEIVER B46
LOCAL OSCILLATOR & CRYSTAL CALIBRATOR

L238
R107
C240
V101
V100
S102
CONTROLS
C239
PLUG A
ENGAGE WITH SLIDING LINK WHEN FITTING UNIT
RECEIVER B47
FRONT VIEW

REMOVE TO RELEASE POWER UNIT
RECEIVER B47

TOP VIEW

V3, V2, PLUG A, C2, C12, C30, C62 (GANGED), C24, C25

REMOVE TO RELEASE POWER UNIT

L18, L13

F401, F402

SAFETY SWITCHES

C409, L405, C410, PLUG G

R.F. TUNED CIRCUITS

I.F. TUNED CIRCUITS

R.F. TUNED CIRCUITS
RECEIVER B46

POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN
RECEIVER B47
R/F UNIT REMOVED

Diagram of the receiver showing various components and labels such as R/F UNIT, CALIBRATED DIAL, SOCKET A, V1, V2, V3, C23, C24, C25, L18, L19, L132, L133, L134, L135, L136, L139, L145, T102, RFI OUTPUT & C.W. OSC STAGES, PLUG C, UNLOCK BEFORE MOUNTING R/F UNIT, V101, PLUG A, V102, V103, V104, V105, V106, and (AC) POWER UNIT.
RECEIVER B47
BOTTOM VIEW POWER UNIT REMOVED
RECEIVER B47
DISMANTLED
RECEIVER  B47

BOTTOM VIEW OF R.F. UNIT (COVER REMOVED)
RECEIVER D.C. POWER UNIT
CIRCUIT SCHEMATIC.

RECEIVER FRONT PANEL

500 ohms
L405
C409
C400

EARTH
50 Hz

HT

POWER INPUT PLUG

8 PIN PLUG OF POWER UNIT
8 PIN POWER UNIT SOCKET ON REAR OF RECEIVER FRONT PANEL

A/C INPUT

24 V.D.C. INPUT

MAIN ON/OFF SWITCH
AC POWER UNIT
FOR RECEIVERS B46 AND B47

FLAP OVER SAFETY SWITCH

F501
F502
F503

T501

PLUG G
TRANSMITTER UNITS
BLOCK SCHEMATIC.

AERIAL TUNING UNIT

DUMMY LOAD
MATCHING & TUNING

T
R
ISOL
E

TO B46
TO B46 (MUTING)

TRANSMITTER 5AH

RL4 RL3 RL2
XTAL CAL.
XTAL OSCR XL3 100K%

AUDIO AMPLIFIER (DETECTOR)
M.O. SELF, XL1 OR XL2
OUTPUT

SIDE TONE
MONITOR PHONES

PHONES
C.W
M.C.W
LOCAL MIC
LOCAL KEY

M.C.W. TONE OSCR 800%
A.F. AMPLIFIER
MODULATOR PP OUTPUT

D.C. POWER UNIT
FUSES
A.C. POWER UNIT

D.C. DIST. BOX.
24v. D.C.

A.C. SUPPLY BOARD
230v 50~
180v 50~

RELAYS

RELAY UNIT (SHIP)
R.C. UNIT (SHORE)

XLI AND XL2 PROVIDE ALTERNATIVE FREQUENCY CHANNELS.

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TRANSMITTER 5AH
FRONT VIEW
NOTE: Section 31-34 are ganged and operated by the band switch.
AERIAL TUNING UNIT
FRONT VIEW
AERIAL TUNING UNIT
REAR VIEW
MODULATOR & POWER UNIT

BOTTOM VIEW
TRANSMITTER A.C. POWER UNIT

FRONT VIEW
REMOTE CONTROL UNIT

FRONT VIEW
AERIAL C.O.S.
CIRCUIT SCHEMATIC

Link across A-B for ships with H.F. D.F.
" " C-D " " Not fitted with H.F. D.F.
RECEIVER B47 R.F. STAGES
CIRCUIT SCHEMATIC
TRANSMITTER A.C. POWER UNIT

CIRCUIT SCHEMATIC

MISC. | PL2 | SK1 | R1 | R5 | P1 | F1 | F3 | SK1 | W2 | R16 | R18 | L1 | L2 | L2A | R19 | P10 | T1 | P8 | P7 | C6 | L8 | C1 | L2, C5 | PL2 | MISC.

Adaptor Unit from Power Unit

Socket on Cable

PL2 - SK1 - PL1

Plug on Cable

SK3 On Modulator

Dynamotor

Change Voltage Control (Service Switch) Earth

H.T. Out

Battery -

Battery +

H.T. From Dynamotor

Control Circuit

Heaters

Control Circuit +

Heaters

Fuse Unit from Modulator when used for A.C. Working

A.C. Power Unit