

TYPES 262(1)M and 262(2)M

SUMMARY OF DATA

RESTRICTED

PURPOSE

G.C. (Gunnery Close range) sets for H.A./L.A. blind fire for close range weapons. Type 262(1)M is fitted to the S.T.A.A.G. Mark 2 Mounting, Type 262(2)M is fitted to the C.R.B.F. Director Mark 2M.

FREQUENCY

9580 - 9900 Mc/s.

WAVELENGTH

3.03 - 3.13 cms.

POWER OUTPUT

30 kW. (peak)

PULSE REPETITION

1500 pulses per second.

PULSE LENGTH

.5 microsecond.

BEAM-WIDTH

5.2° (6 db down)

INTERMEDIATE

30 Mc/s.

FREQUENCY

RECEIVER

4 Mc/s.

BANDWIDTH

220 volts D.C. 2.5 kW from ship's mains (for radar equipment only).

POWER

REQUIREMENTS

MAJOR UNITS

TYPE 262(1)M

Cubicle A

1. Patt. W9482A Panel 3EB Transmitting & Receiving
2. Patt. W9480B Transmitter-Receiver Unit Design 1
3. Patt. W9488B Modulator Unit Design 1
4. Patt. W9483B Auto-Strobe & Amplifier Unit Des.1
5. Patt. W9485B C.R. Unit Design 17

Cubicle B

6. Patt. W9491A Control Unit 20K Auto
7. Patt. 54206B Servo Unit Design 1
8. Patt. 54207B Search Unit Design 1

Cubicle C

9. Patt. W9490A Panel 3EE Rectifying & Range Follower
10. Patt. 54480B Range Transmitting Unit Des. 57
11. Patt. W9489B Rectifier Unit Design 34

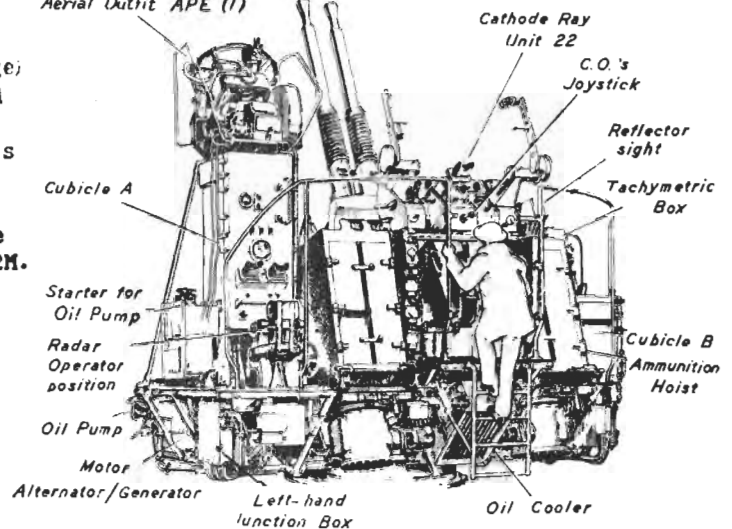
Cubicle D

12. Patt. 55984 Blower 22A
13. Patt. 54208 Blower Unit

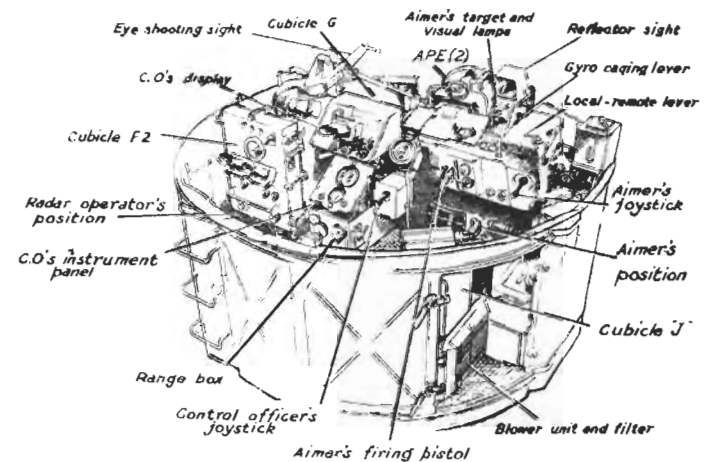
Cubicle E (D.N.O. Provision)

14. Patt. 54205 C.R. Unit Design 22

Aerial Outfit APE (1)



TYPE 262(1)M FITTED TO S.T.A.A.G. MK.2



TYPE 262(2)M FITTED TO C.R.B.F. DIRECTOR MK.2M

Cubicle F

TYPE 262(2)M

1. Patt. 56170A Panel 3EM Modulating Rectifying & Auto Control
2. Patt. W9483B Auto-Strobe & Amplifier Unit Des.1
3. Patt. W9485B C.R. Unit Design 17
4. Patt. 54206B Servo Unit Design 1
5. Patt. W9488B Modulator Unit Design 1
6. Patt. W9409B Rectifier Unit Design 34
7. Patt. 54207B Search Unit Design 1

Cubicle G

8. Patt. 36173 Indicator C.R. Design 1
9. Patt. 57672 Control Unit Design 27
10. Patt. 54205 C.R. Unit Design 22

Cubicle H

11. Patt. 56169 Transmitter Receiver 10L
12. Patt. W9480B Transmitter Receiver Unit Des. 1

Cubicle J

13. Patt. 56172 Range Follower 23A
14. Patt. 54480B Range Transmitting Unit Des. 57

Cubicle K

15. Patt. 56174 Blower 22B
16. Patt. 54208 Blower Unit

Items 2,3,4 and 5 are housed in Item 1.
Items 7 and 8 are housed in Item 6.
Items 10 and 11 are housed in Item 9.
Item 13 is housed in Item 12.

Items 2,3,4,5,6 and 7 are housed in Item 1.
Items 9 and 10 are housed in Item 8.
Item 12 is housed in Item 11.
Item 14 is housed in Item 13.
Item 16 is housed in Item 15.

POWER SUPPLY OUTFIT

The power supply arrangements are an integral part of the equipment and comprise the following units.

Patt. 53370	Motor Alternator 2 kW	Patt. 55264	Regulator, Auto Voltage Control Carbon Pile Type, Design 8
Patt. 54628/A	Starter Assembly for 1 H.P. Motor	Patt. 56176	Cooler Air Design 1 (Type 261(1)M only)
Patt. 54943/A	Motor 1.2 H.P.	Patt. 56764	Cooler Air Design 2 (Type 262(2)M only)

The Patt. 53370 Motor Alternator provides the following supplies:-

80 volts 1500 c/s 2 kW and 22 volts D.C. 0.5 kW.

AERIAL OUTFIT

Aerial Outfit APE(1) is fitted to Type 262(1)M and Aerial Outfit APE(2) to Type 262(2)M. Aerial APE consists essentially of a 1 ft paraboloid reflector mounted on a shaft of a motor rotating at 1800 revs per minute.

BRIEF DESCRIPTION

Types 262(1)M and 262(2)M are fitted to the S.T.A.A.G. Mark 2M mounting and C.R.B.F. Director Mark 2M respectively to enable the guns to be aimed automatically or manually at unseen aircraft targets, and to provide range which is fed automatically and continuously to the calculating mechanism under all conditions of firing. In order to make accurate aiming possible, the radar beam is very narrow and the set is not therefore suitable for all round searching and detecting of targets. The equipment is only fitted in ships having a target indicating set (Type 293) and so range and bearing of the target to be engaged by the mounting will be sent from the Target Indicating Unit. Type 262 then searches a small amount of range bearing and elevation (Range \pm 750 yds in 30 sweeps per sec Bearing \pm 12 $\frac{1}{2}$ ^o in 1 sweep per 2 secs and Elevation 0 - 92 $\frac{1}{2}$ ^o at 2^o per sec). As soon as the target is detected, the search stops automatically, the radar beam is kept locked on to the target and the set provides automatic or radar aiming as desired.

The complete radar equipment is housed in five watertight cubicles on the mounting or director. Preliminary servicing of the equipment can be performed without removing the units. The majority of the operating controls and displays are on the door of Cubicle A (Type 262(1)M) or Cubicle F (Type 262(2)M).

HANDBOOKS

A series of books under the general title
B.R.2047A and B.R.2047B.

ESTABLISHMENT LIST

E985 (Types 262(1)M and 262(2)M) E725 (Aerial Outfits
APE(1), APE(2)).

INSTALLATION SPECIFICATION

B607 (Type 262(1)M) B643 (Type 262(2)M)

TYPES 262(1)P AND 262(2)P

SUMMARY OF DATA

PURPOSE

G.C. (Gunnery Close range) sets for H.A./L.A. blind fire for close range weapons. Type 262(1)P is fitted to S.T.A.A.G. Mark 2M Mounting. Type 262(2)P is fitted to the C.R.B.F. Director Marks 2M, 3, 7 and 9.

FREQUENCY	9580 - 9900 Mc/s
WAVELENGTH	3.03 - 3.13 cm
POWER OUTPUT	30 kW (peak)
PULSE REPETITION	1500 pulses per second
PULSE LENGTH	0.5 microseconds
BEAM-WIDTH	5.2° (6 dB down)
INTERMEDIATE FREQUENCY	30 Mc/s
RECEIVER BANDWIDTH	4 Mc/s
POWER REQUIREMENTS	220V d.c., 2.5 kW from ship's mains (for radar equipment only).

MAJOR UNITS

Type 262(1)PCubicle A

1. Patt. 61150A Panel 3CF
2. Patt. 68628 Trans-receiver 74B
3. Patt. W9488C/63974 Modulator Unit
4. Patt. 71045 Auto Strobe Des. 5
5. Patt. 64486 CR Unit Design 47

Cubicle B

6. Patt. W9491B Control Unit 20K
7. Patt. 63880 Servo Unit Des. 6
8. Patt. 63881A Search Unit Des. 66A

Cubicle C

9. Patt. W9490A Panel 3BE
10. Patt. 54480B R.T.U. Des. 57
11. Patt. W9489B Rectifier Unit Des. 34

Cubicle D

12. Patt. 55984A Blower 22A
13. Patt. 54208A Blower Unit

Type 262(2)PCubicle F

1. Patt. 61153A Panel 3CG
2. Patt. 71045 Auto Strobe Des. 5
3. Patt. 64486 CR Unit Design 47
4. Patt. 63880 Servo Unit Des. 6
5. Patt. W9488C/63974 Modulator Unit
6. Patt. W9489B Rectifier Unit Des. 34
7. Patt. 63881A Search Unit Des. 66A

Cubicle G

8. Patt. 56173 Indicator CR Design 1
9. Patt. 57672 Control Unit Des. 27
10. Patt. 54205 C.R.U. Des. 22

Cubicle H

11. Patt. 64151 T.R. 10U
12. Patt. 68628 Trans-Receiver 74B

Cubicle J

13. Patt. 56172 Range Follower 23A
14. Patt. 54480B R.T.U. Des. 57

Type 262(2)P

Cubicle K

15. Patt. 56174A Blower 2B
16. Patt. 54208A Blower Unit

POWER SUPPLY OUTFIT

The power supply arrangements are an integral part of the equipment and comprise the following units:-

- Patt. 53370 Motor Alternator 2 kW
- Patt. 54628/A Starter Assembly for 1 H.P. Motor
- Patt. 54943/A Motor 1.2 H.P.
- Patt. 55264 Regulator, Auto Voltage Control, Carbon Pile Type, Design 8
- Patt. 56176 Cooler Air Design 1 (Type 262(1)P only)
- Patt. 56764 Cooler Air Design 2 (Type 262(2)P only)

Patt. 53370 Motor Alternator provides the following supplies:-

80 volts 1500 e/s 2 kW and 22 volts d.c. 0.5 kW

AERIAL OUTFIT

Aerial Outfit APE(1) is fitted to Type 262(1)P and Aerial Outfit APE(2) to Type 262(2)P. Aerial APE consists essentially of a 1 ft paraboloid reflector mounted on the shaft of a motor rotating at 1800 r.p.m.

BRIEF DESCRIPTION

Types 262(1)P and 262(2)P are fitted to the S.T.A.A.G. Mark 2f mounting and C.R.B.F. Director Marks 2H, 3, 7 and 9 respectively to enable the guns to be aimed automatically or manually at unseen aircraft targets, and to provide range which is fed automatically and continuously to the calculating mechanism under all conditions of firing. In order to make accurate aiming possible, the radar beam is very narrow and the set is not therefore suitable for all round searching and detecting of targets. The equipment is only fitted in ships having a target indicating set (Type 293) and so range and bearing of the target to be engaged by the mounting will be sent from the Target Indicating Unit. Type 262 then searches a small amount of range, bearing and elevation (Range \pm 750 yds in 30 sweeps per sec., Bearing \pm 5° in 1 sweep per 2 secs., and Elevation 0 - 92½° at 5° per sec.). As soon as the target is detected, the search stops automatically, the radar beam is kept locked on to the target and the set provides automatic or radar aiming as desired.

The complete radar equipment is housed in five watertight cubicles on the mounting or director. Preliminary servicing of the equipment can be performed without removing the units. The majority of the operating controls and displays are on the door of Cubicle A (Type 262(1)P) or Cubicle F (Type 262(2)P).

HANDBOOKS

A series of books under the general title B.R.2047A and B.R.2047B.

ESTABLISHMENT LIST

E1079 (Types 262(1)P and 262(2)P)
E725 (Aerial Outfits APE(1), APE(2))

INSTALLATION SPECIFICATION

B607 (Type 262(1)P)
B643 (Type 262(2)P)

TYPES 262(2)Q AND 262(6)Q

SUMMARY OF DATA

PURPOSE

Associated radar set of the C.R.B.F.D. Mark 5 fitted as part of the Medium Range System Mark 8 (M.R.S.8).

Type 262(2)Q is fitted in d.c. ships.

Type 262(6)Q is fitted in a.c. ships.

FREQUENCY 9580 - 9900 Mc/s

WAVELENGTH 3.03 - 3.13 cm

POWER OUTPUT 24 kW (peak)

PULSE REPETITION FREQUENCY 1500 pulses per second

PULSE LENGTH 0.5 microsecond

BEAM WIDTH 5.2° (6 dB down)

INTERMEDIATE FREQUENCY 30 Mc/s

POWER REQUIREMENTS 440V 60 c/s 3 phase for radar generator in a.c. ships
220V d.c. for radar generator in d.c. ships

RECEIVER BANDWIDTH 4 Mc/s

MAJOR UNITS The units are housed in watertight cubicles as follows:-

TYPE 262(2) Q

CUBICLE F1

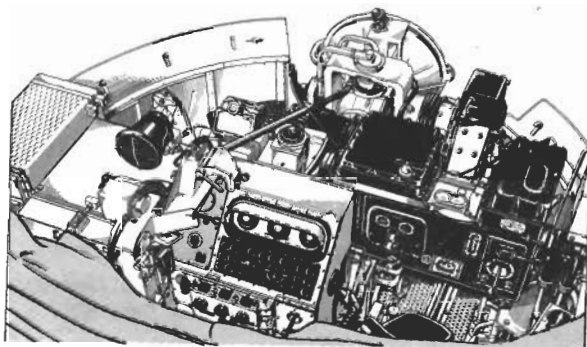
- 1 Patt. 64998 Panel 3CG(A) Mod. Rect. and Auto Control
- 2 Patt. 63974 Modulator Unit 57H
- 3 Patt. W9489B Rectifier Unit Des. 34
- 4 Patt. 63880 Servo Unit Des. 6
- 5 Patt. 63881A Search Unit 66A

CUBICLE F2

- 6 Patt. 64990 Control Unit Des. 120
- 7 Patt. 64396 Auto Strobe and Amplifier Unit Des. 4
- 8 Patt. 64486 Cathode Ray Unit Des. 47

CUBICLE H

- 9 Patt. 61151 Transmitter-Receiver 10U
- 10 Patt. 68628 Transmitter-Receiver 74B



TYPE 262(2)Q/262(6)Q
FITTED IN C.R.B.F.D.
Mk. 5

CUBICLE J

- 11 Patt. 62435 Range Follower 60A
- 12 Patt. 54480D Range Transmitting Unit Des. 57

CUBICLE K

- 13 Patt. 56174/A Blower 22B
- 14 Patt. 54208A Blower Unit 220V d.c.
- 15 Patt. 57672 Control Unit Des. 27 fitted as integral part of C.O.'s Dial Panel.

TYPE 262(6)Q

CUBICLE F1

- 1 Patt. 64999 Panel 3CJ(A) Mod. Rect. and Auto Control
- 2 Patt. 63974 Modulator Unit 57H
- 3 Patt. W9489B Rectifier Unit Des. 34
- 4 Patt. 63880 Servo Unit Des. 6
- 5 Patt. 63881A Search Unit 66A

CUBICLE F2

- 6 Patt. 64992 Control Unit Des. 121
- 7 Patt. 64396 Auto Strobe and Amplifier Unit Des. 4
- 8 Patt. 64486 Cathode Ray Unit Des. 47

CUBICLE H

- 9 Patt. 61151 Transmitter-Receiver 10U
- 10 Patt. 68628 Transmitter-Receiver 74B

CUBICLE J

- 11 Patt. 62435 Range Follower 60A
- 12 Patt. 54480D Range Transmitting Unit Des. 57

CUBICLE

- 13 Patt. 67637 Blower 22H
- 14 Patt. 66753 Blower Unit 440V 3 phase
- 15 Patt. 57672 Control Unit Des. 27 fitted as integral part of C.O.'s Dial Panel.

POWER SUPPLY OUTFIT

As for Type 262(2) and 262(6).

AERIAL OUTFIT

Aerial Outfit APE(2) which consists of a parabolic reflector fed by a flare from the waveguide system. The aerial reflector rotates at 1800 revs per minute.

BRIEF DESCRIPTION

Types 262(2)Q and 262(6)Q fitted in C.R.B.F.D. Mark 5 as part of the M.R.S.8. The radar beam is very narrow and the set is not therefore suitable for all round searching and detecting of targets. Range and Bearing of the target to be engaged is provided by the C.D.S., Type 262 then searches a small amount in range, bearing and elevation (Range ± 750 yards about the mean range, bearing $\pm 5^\circ$, elevation at 5° per sec.) When the target is detected, the search stops automatically, the radar beam is locked on to the target and the set provides auto-ranging under all conditions of operation, and auto-following as applicable.

The majority of the radar operating controls and displays are on the door of Cubicle F2. Certain controls are duplicated on the C.O.'s Dial Panel. It should be noted that the Auto-Radar switch on the door of Cubicle F2 is, at all times, to be left in AUTO.

HANDBOOK

C.B.(R)

TYPES 262(5)P AND 262(6)P

SUMMARY OF DATA

PURPOSE

G.C. (Gunnery Close range) sets for H.A./L.A. blind fire for close range weapons in A.C. Ships. Type 262(5)P is fitted to S.T.A.A.G. Mark 3 Mounting, Type 262(6)P is fitted to C.R.B.F. Director Mark 4.

FREQUENCY	9580 - 9900 Mc/s
WAVELENGTH	3.03 to 3.13 cm
POWER OUTPUT	30 kW (peak)
PULSE REPETITION FREQUENCY	1500 pulses per second
PULSE LENGTH	0.5 microseconds
BEAM WIDTH	5.2° (6 dB down)
INTERMEDIATE FREQUENCY	30 Mc/s
POWER REQUIREMENTS	440 volts, 60 c/s, 3 Ø for radar generator
RECEIVER BANDWIDTH	4 Mc/s
MAJOR UNITS	

The units are housed in watertight cubicles as follows:-

Type 262(5)PType 262(6)PCubicle F1Cubicle F1

1. Patt. 61154A Panel 3CH
2. Patt. W9488C/63974 Modulator Unit
3. Patt. W9489B Rectifier Unit Des. 34
4. Patt. 63880 Servo Unit Des. 6
5. Patt. 63881A Search Unit Des. 66A

1. Patt. 61155A Panel 3CJ
2. Patt. W9488C/63974 Modulator Unit
3. Patt. W9489B Rectifier Unit Des. 34
4. Patt. 63880 Servo Unit Des. 6
5. Patt. 63881A Search Unit Des. 66A

Cubicle F2Cubicle F2

6. Patt. 61149 Control Unit Des. 78
7. Patt. 71045 Auto Strobe Des. 5
8. Patt. 64486 C.R.U. Des. 47
9. Patt. 57672 Control Unit Des. 27

6. Patt. 61149 Control Unit Des. 78
7. Patt. 71045 Auto Strobe Des. 5
8. Patt. 64486 C.R.U. Des. 47
9. Patt. 57672 Control Unit Des. 27

Cubicle HCubicle H

10. Patt. 61152 Transmitter-Receiver 10W
11. Patt. 68628 Transmitter-Receiver 74B

10. Patt. 61151 Transmitter-Receiver 10U
11. Patt. 68628 Transmitter-Receiver 74B

Cubicle J

- 12. Patt. 66750 Range Follower 23E
- 13. Patt. 54480B R.T.U. Des. 57

Cubicle K

- 14. Patt. 66752 Blower 22B
- 15. Patt. 66753 Blower Unit

Cubicle J

- 12. Patt. 56172 Range Follower 23E
- 13. Patt. 54480B R.T.U. Des. 57

Cubicle K

- 14. Patt. 67637 Blower 22B
- 15. Patt. 66753 Blower Unit

POWER SUPPLY OUTFIT

The power supply arrangements are an integral part of the equipment and are as follows:-

The 440 volts 60 c/s, 3 ϕ supply from the ship's mains is fed to the Mounting Control Panel (D.E.E. provision) and thence to

(a) Patt. 66723 A.C./D.C. A.C. Generator which supplies

80 volts, 1500 c/s 1.6 kW
22 volts d.c., 0.3 kW

(b) A 5 kVA Transformer (D.E.E. provision) which supplies

220 volts 60 c/s 1 ϕ (for cubicle heaters)
150 volts 60 c/s 3 ϕ (for control circuits)
60 volts 60 c/s 3 ϕ (for magslips)
24 volts 60 c/s 1 ϕ (for firing and illuminating circuits)

(c) Blower Motor, Gun Barrel Water Heaters, Oil Pump, Drawing Motor, Water Pump Motor.

NOTE: The Mounting Control Panel and 5 kVA transformer are fitted in Type 262(5)P only. In Type 262(6)P the supplies in (b) are obtained from fitted structural junction boxes.

AERIAL OUTFIT

Aerial Outfit APE(2) which consists of a parabolic reflector fed by a flare from the waveguide system. The aerial rotates at 1800 r.p.m.

BRIEF DESCRIPTION

Types 262(5)P and 262(6)P are fitted to the S.T.A.A.G. Mark 3 mounting and C.R.E.F. Director Mark 4 respectively in A.C. Ships to enable the two 40 mm Bofors guns to be aimed automatically or manually at unseen aircraft targets and to provide automatic ranging under all conditions of firing. The radar beam is very narrow and the set is not therefore suitable for all round searching and detecting of targets. The equipment is only fitted in ships having a target indicating set (Type 293 series) and range and bearing of the target to be engaged by the mounting will be sent from the Target Indicating Unit. Type 262 then searches a small amount of range, bearing and elevation (Range \pm 750 yd in 30 sweeps per second, Bearing \pm 5 $^{\circ}$ in one sweep per two seconds and elevation 5 to 80 $^{\circ}$ at 5 $^{\circ}$ per second). As soon as the target is detected, the search stops automatically, the radar beam is locked on to the target and the set provides automatic or radar aiming as desired.

The majority of the operating controls and displays are on the door of Cubicle F2. Certain controls and one display are duplicated in Cathode Ray Unit Des. 22 sited at the Control Office position.

HANDBOOK

B.R.2047A(3) Type 262(5)P
B.R.2047A(4) Type 262(6)P

ESTABLISHMENT LIST

E1079 (Types 262(5)P and 262(6)P)
E725 (Aerial Outfit APE(2))

INSTALLATION SPECIFICATION

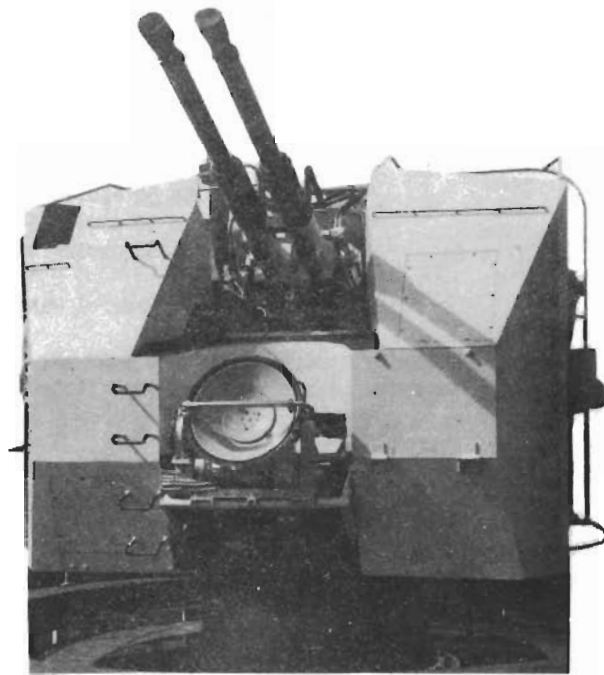
TYPES 262(5)M AND 262(6)M

SUMMARY OF DATA

PURPOSE

G.C. (Gunnery Close Range) sets for HA/LA blind fire for close range weapons in A.C. Ships. Type 262(5)M is fitted to S.T.A.A.G. Mark 3 mounting Type 262(6)M is fitted to C.R.B.F. Director Mark 4.

FREQUENCY	9580 to 9900 Mc/s.
WAVELENGTH	3.03 to 3.13 cms.
POWER OUTPUT (PEAK)	30 kW.
PULSE REPETITION FREQUENCY	1500 pulses per second.
PULSE LENGTH	0.5 micro seconds.
BEAM WIDTH	5.2° (6 db down).
INTERMEDIATE FREQUENCY	30 Mc/s.
POWER REQUIREMENTS	440 volts 60 cycles 3 phase for radar generator.
RECEIVER BAND-WIDTH	4 Mc/s.
MAJOR UNITS	The units are housed in watertight cubicles as follows:-



TYPE 262(5)M FITTED TO S.T.A.A.G. Mk. 3

TYPE 262(5)M

CUBICLE F1

1. Patt. 66742 Panel 3CD Mod. Rect. and Auto Control.
2. Patt. W9488B Modulator Unit Design 1.
3. Patt. W9489B Rectifier Unit Design 34.
4. Patt. 54206B Servo Unit Design 1.
5. Patt. 54207B Search Unit Design 1.

CUBICLE F2

6. Patt. 66745 Control Unit Design 62.
7. Patt. W9483B Auto Strobe and Amplifier Unit Design 1.
8. Patt. W9485B Cathode Ray Unit Design 17.
9. Patt. 57672 Control Unit Design 27.

CUBICLE I

10. Patt. 66740 Transmitter Receiver 10T.
11. Patt. W9480B Transmitter Receiver Unit Design 1.

CUBICLE J

12. Patt. 66750 Range Follower 23E.
13. Patt. 54480B Range Transmitting Unit Design 57.

CUBICLE K

14. Patt. 66752 Blower 22G.
15. Patt. 66753 Blower Unit 440 volts 3 phase.

NOTE Items 2 - 5 are in 1, Item 9 is on side of Cubicle F2, Item 11 is in 10, Item 13 is in 12, Item 15 is in 14.

TYPE 262(6)M

CUBICLE F1

1. Patt. 67611 Panel 3CE Mod. Rect. and Auto Control.
2. Patt. W9488B Modulator Unit Design 1.
3. Patt. W9489B Rectifier Unit Design 34.
4. Patt. 54206B Servo Unit Design 1.
5. Patt. 54207B Search Unit Design 1.

CUBICLE F2

6. Patt. 66745 Control Unit Design 62.
7. Patt. W9483B Auto Strobe and Amplifier Unit Design 1.
8. Patt. W9485B Cathode Ray Unit Design 17.
9. Patt. 57672 Control Unit Design 27.

CUBICLE I

10. Patt. 56169 Transmitter Receiver 10L.
11. Patt. W9480B Transmitter Receiver Unit Design 1.

CUBICLE J

12. Patt. 56172 Range Follower 23A.
13. Patt. 54480B Range Transmitting Unit Design 57.

CUBICLE K

14. Patt. 67637 Blower 22H.
15. Patt. 66753 Blower Unit 440 volts 3 phase.

NOTE Items 2 - 5 are in 1, Item 9 is on side of Cubicle F2, Item 11 is in 10, Item 13 is in 12, Item 15 is in 14.

POWER SUPPLY OUTFIT

The power supply arrangements are an integral part of the equipment and are as follows:-

The 440 volts 60 cycles 3 phase supply from the ships mains is fed to the Mounting Control Panel (D.E.E. provision) and thence to

- (a) Patt. 66723 A.C./D.C. A.C. Generator which supplies
 - 80 volts 1500 cycles 1.6 kW
 - 22 volts D.C. 0.3 kW
- (b) A 5.00 kVA Transformer (D.E.E. provision) which supplies
 - 220 volts 60 cycles single phase (For cubicle heaters)
 - 150 volts 60 cycles 3 phase (For control circuits)
 - 60 volts 60 cycles 3 phase (For magslips)
 - 24 volts 60 cycles single phase (For firing and illuminating circuits)
- (c) Blower Motor, Gun Barrel Water Heaters, Oil Pump Drawing Motor, Water Pump Motor.

NOTE The Mounting Control Panel and 5.00 kVA transformer are fitted in Type 262(5)M only. In Type 262(6)M the supplies in (b) are obtained from fitted structural junction boxes.

AERIAL OUTFIT

Aerial Outfit APE(2) which consists of a parabolic reflector fed by a flare from the waveguide system. The aerial rotates at 1800 revolutions per minute.

BRIEF DESCRIPTION

Types 262(5)M and 262(6)M are fitted to the S.T.A.A.G. Mark 3 mounting and C.R.B.F. Director Mark 4 respectively in A.C. Ships to enable the two 40mm Bofors guns to be aimed automatically or manually at unseen aircraft targets and to provide automatic ranging under all conditions of firing. The radar beam is very narrow and the set is not therefore suitable for all round searching and detecting of targets. The equipment is only fitted in ships having a target indicating set (Type 293 series) and, range and bearing of the target to be engaged by the mounting will be sent from the Target Indicating Unit. Type 262 then searches a small amount of range bearing and elevation (Range ± 750 yards in 30 sweeps per second, Bearing $\pm 121^\circ$ in 1 sweep per 2 seconds and elevation $5 - 80^\circ$ at 2° per sec.). As soon as the target is detected, the search stops automatically, the radar beam is locked on to the target and the set provides automatic or radar aiming as desired.

The majority of the operating controls and displays are on the door of Cubicle F2. Certain controls and one display are duplicated in Cathode Ray Unit Design 22 sited at the Control Office position.

HANDBOOK

B.R.2047A(3) Type 262(5)M
B.R.2047A(4) Type 262(6)M

ESTABLISHMENT LIST

E.985 (Types 262(5)M(6)M E.725 (Aerial Outfit APE(2))

INSTALLATION SPECIFICATION

-