

RESTRICTED

BR 333(1)
Original

TYPES 992M (1) (2)

992M (1) (2)

SUMMARY OF DATA

PURPOSE

Types 992M(1)(2) are integral parts of Missile Direction System Mk 5. They can also be used to provide medium range air and surface warning.

BRIEF DESCRIPTION

Radar Type 992M(1)(2) is a high power S-band radar equipment providing rapid target indication for weapons. The frequency band is covered by three interchangeable water cooled magnetrons.

FREQUENCY

2940-3060 MHz

PULSE REPETITION FREQUENCY

Normal 833 pps. Test 275 pps.

PULSE LENGTH

2 microseconds.

POWER OUTPUT

2 Mw.

RECEIVER

The receiver incorporates both linear and logarithmic amplifiers with built in facilities for anti-logging, swept gain and clutter reduction, and provides for selection and adjustment of the video signal to suit differing operational conditions.

RECEIVER BANDWIDTH

600 kHz, Linear and Log.

INTERMEDIATE FREQUENCY

13.5 MHz

BEAM WIDTH

2° Horizontal (to half power)
30° Vertical (to half power)
Beam elevated 4° mechanically and 11° electrically

POWER REQUIREMENTS

440 V 60 Hz 3 ph 30 kVA.

ASSOCIATED AERIAL OUTFIT

Aerial Outfits AKC(2) (see separate Summary of Data)

ASSOCIATED DISPLAY OUTFITS

JDA and MDS1 Console

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MAJOR UNITS

<u>AP NO.</u>	<u>DESCRIPTION</u>
AP 68106	Cabinet, Design 44, Fire Detector, LH
AP 172818	Cabinet, Video Distribution
AP 68111	Cabinet, Design 49, Fire Detector, RH
AP 172819	Cabinet, IF Amplifier
AP 172843	Cabinet, RF Monitoring
AP 68538	Cabinet, Design 62, Air Drying
AP 172815	Cabinet, Duplexer Receiving
AP 68061	Cabinet, Design 17
AP 172842	Cabinet, RF
AP 186218	Coupler, W/G
AP 68062	Cabinet, Design 18
AP 172820	Cabinet, Design 19
AP 68064	Cabinet, Design 20
AP 172831	Cabinet, Control Servo
AP 172830	Cabinet, Filter Modulator
AP 172806	Cabinet, Control and Alarm
AP 68418	Cabinet, Design 63, Air Cooling

PHYSICAL DATA

	Weight
Assembly GL	1219 Kg (24 cwt)
Assembly JJ	508 Kg (10 cwt)
Assembly KK	4166 Kg (82 cwt)
Heat Exchanger	610 Kg (12 cwt)
Alarm Unit	50.8 Kg (1 cwt)

HANDBOOK

BR 206

ESTABLISHMENT LIST

E 1298

INSTALLATION SPECIFICATION

M 5145 Appendix 'F' and Addenda 'A' and 'B'