

Section 1-1

GROUP 116: RADIO AND LINE EQUIPMENT (AND ASSOCIATED
SPECIAL-TO-TYPE TEST EQUIPMENT)Note...

Special-to-type test sets and equipment are included in the same Class as the equipment(s) to which they relate. (They are normally either incorporated in the Publication for the equipment(s) or, if issued as a separate Publication, share the same Code 2nd-Element number (with distinguishing 3rd-Element Sub-Topic suffix); in this way, related equipment is linked in the same Publication Code family and so can be easily located and identified.) Note that, for separately-issued Publications on special-to-type test sets, Topic -3C is inapplicable.

RADIO - GENERAL INFORMATION

116A-0001 to -00999	Indices and catalogues
-0100 to -01999	Concise details of radio and terminal equipment
-0200 to -02999	Radio valves

RADIO NAVIGATIONAL AND LANDING AIDS (AIRBORNE)

116B-0001 to -00999	General information on airborne radio-navigational and landing aids
-0100 to -01999	Radio compasses
-0200 to -02999	Radio altimeters
-0300 to -03999	Radio homers
-0400 to -04999	ILS and VOR
-0500 to -05999	Leader cable systems (<i>obsolete</i>)
-0600 to -06999	Hyperbolic systems
-0700 to -07999	(Unassigned)
-0800 to -08999	(Unassigned)
-0900 to -09999	Rescue beacons

RADIO NAVIGATIONAL AND LANDING AIDS (GROUND AND MARINE)Note...

Radar navigational aids (ground) are coded in Sub-group 115F.

116C-0001 to -00999	General information on ground radio-navigational and landing aids (ground)
-0100 to -01999	(Unassigned)
-0200 to -02999	(Unassigned)
-0300 to -03999	(Unassigned)
-0400 to -04999	ILS, VOR and Telecroscope Tracking System
-0500 to -05999	Leader cable systems (<i>obsolete</i>)
-0600 to -06999	Hyperbolic systems (ground and marine)
-0700 to -07999	Radio beacons
-0800 to -08999	D/F systems
-0900 to -09999	(Unassigned)
-1000 to -10999	(Unassigned)

RADIO NAVIGATIONAL AND LANDING AIDS (GROUND AND MARINE) (Contd)

116C-1100 to -11999	(Unassigned)
-1200 to -12999	(Unassigned)
-1300 to -13999	(Unassigned)
-1400 to -14999	(Unassigned)
-1500 to -15999	(Unassigned)
-1600 to -16999	(Unassigned)
-1700 to -17999	Aerial equipment

RADIO COMMUNICATIONS (AIRBORNE)

116D-0001 to -00499	General information on airborne radio communications
-0050 to -00999	Airborne radio communications systems
-0100 to -01999	Transmitter-receivers (and transceivers)
-0200 to -02999	Transmitters
-0300 to -03999	(Unassigned)
-0400 to -04999	(Unassigned)
-0500 to -05999	(Unassigned)
-0600 to -06999	Modulation equipment
-0700 to -07999	(Unassigned)
-0800 to -08999	(Unassigned)
-0900 to -09999	Receivers
-1000 to -10999	(Unassigned)
-1100 to -11999	Aircraft selective calling units (Selcal) equipment
-1200 to -12999	Amplifiers
-1300 to -13999	(Unassigned)
-1400 to -14999	(Unassigned)
-1500 to -15999	(Unassigned)
-1600 to -16999	(Unassigned)
-1700 to -17999	Aerial equipment

RADIO COMMUNICATIONS (GROUND)

116E-0001 to -00499	General information on ground radio communications
-0050 to -00999	Ground radio communications systems
-0100 to -01999	Transmitting-receiving stations
-0200 to -02999	Transmitters
-0300 to -03999	(Unassigned)
-0400 to -04999	(Unassigned)
-0500 to -05999	(Unassigned)
-0600 to -06999	Modulation/Demodulation equipment
-0700 to -07999	Receivers
-0800 to -08999	(Unassigned)
-0900 to -09999	(Unassigned)
-1000 to -10999	(Unassigned)
-1100 to -11999	Aircraft selective-calling-system (Selcal) equipment
-1200 to -12999	Amplifiers
-1300 to -13999	(Unassigned)
-1400 to -14999	(Unassigned)
-1500 to -15999	(Unassigned)
-1600 to -16999	(Unassigned)
-1700 to -17999	Aerial equipment

RADIO COMMUNICATIONS (GROUND) (Contd)

116E-1800 to -18999	(Unassigned)
-1900 to -19999	Man-portable equipment
-2000 to -20999	(Unassigned)
-2100 to -21999	Mobile transmitter-receivers ('transceivers')
-2200 to -22999	Control and monitoring equipment
-2300 to -23999	Telegraph on Radio (TOR): error-detection and correction equipment (EDC)

ELECTRONIC COUNTER-MEASURES

116F-0001 to -00999	General information on electronic countermeasures
-0100 to -01999	Airborne jamming equipments
-0200 to -02999	Airborne warning receivers
-0300 to -03999	Airborne radio repeaters
-0400 to -04999	Airborne intercept and D/F equipment
-0500 to -05999	ECM trainers

MARITIME WEAPONS

116G-0001 to -00999	General information on maritime weapons
-0100 to -01999	Sonobuoy receiving and indicating equipment
-0200 to -02999	Sonobuoy transmitters
-0300 to -03999	Sonobuoy homers
-0400 to -04999	Sonobuoy plotting tables
-0500 to -05999	Sonobuoy trainers
-0600 to -06999	Asdic (Sonar)

TELEMETRY, INSTRUMENTATION, AND RADIO CONTROLNote...

Instrumentation here implies equipment specially added to measure performance, for telemetry and/or research purposes.

Line telemetry equipment is coded in Sub-group 116M.

Spacecraft telemetry, instrumentation and radio control is coded in Sub-group 116S.

116H-0001 to -00999	General information on telemetry, instrumentation and radio control
-0100 to -01999	Telemetry and instrumentation equipment
-0200 to -02999	Telemetry and instrumentation - servicing and test equipment
-0300 to -03999	Airborne target strike/miss-distance indicating equipment
-0400 to -04999	Telecommand control for towed targets

(UNASSIGNED)

116J

RADIO VEHICLES AND AIR-TRANSPORTABLE INSTALLATIONS

116K-0001 to -00999	General information on radio vehicles and on air-transportable installations
-0100 to -01999	Radio vehicles
-0200 to -02999	(Unassigned)
-0300 to -03999	Air-transportable container stations (Note 1)
-0400 to -04999	Air-transportable rack installations

RECORDING AND REPRODUCING EQUIPMENT

Note...

Aircraft flight-data recorders are coded in 112R-02; weapon performance-data recorders are coded in 110M-02.

Test equipment is coded in Group 117 (see 117X-05).

116L-0001 to -00999	General information on recording and reproducing equipment
-0100 to -01999	Sound recording and reproducing equipment
-0200 to -02999	Digital magnetic recording and/or reproducing equipment
-0300 to -03999	Data-logging magnetic recording equipment
-0400 to -04999	Paper-tape punches and readers (excluding line-communications equipment - see 116M-03)
-0500 to -05999	Card punches and readers
-0600 to -06999	Video recording and reproducing equipment (electronic)
-0700 to -07999	Ultra-Violet graphical recorders
-0800 to -08999	Time injection apparatus

LINE COMMUNICATIONS

116M-0001 to -00999	General information on line communications
-0100 to -01999	Terminal equipment
-0200 to -02999	Repeater equipment
-0300 to -03999	Teleprinters, reperforators, lineprinters etc
-0400 to -04999	Facsimile equipment (video telecopiers, etc.)
-0500 to -05999	Switching, control and operation-monitoring equipment
-0600 to -06999	Cryptographic equipment
-0700 to -07999	Specialised test equipment
-0800 to -08999	Automatic Morse equipment
-0900 to -09999	Modulation/demodulation (telegraphy) equipment
-1000 to -10999	Telegraph, teleprinter and telephone power equipment
-1100 to -11999	Multiplex equipment
-1200 to -12999	Tape editing equipment (comparitors, verifiers, unipunches, editing sets etc.)
-1300 to -13999	Message switching systems (auto, semi-auto, computer aided, "TARE" etc.)

Note 1:

Standard running gear (jack equipment etc.) which may be attached to radio container stations for mobility, is coded in 119K-01.

AIRCRAFT AND GROUND INTERCOMMUNICATION/ADDRESS SYSTEMS

116N-0001 to -00999	General information on aircraft intercommunication/ address systems and on ground intercommunication/ address systems
-0100 to -01999	Aircraft i/c systems
-0200 to -02999	Ground i/c systems
-0300 to -03999	Aircraft telebriefing
-0400 to -04999	Passenger-address and loading-instruction systems
-0500 to -05999	Airborne speech broadcasters
-0600 to -06999	Ground speech broadcasters

DIGITAL DATA LINKS (GROUND EQUIPMENTS)Note...

Airborne data links are likely to be of specialised application and will generally be coded in the Code Class of the equipment with which they are associated.

116P-0001 to -00999	General information on data links
-0100 to -01999	Digital-data links
-0200 to -02999	Data-link test equipment
-0300 to -03999	Radar-data links

RADIO LINKS (GROUND EQUIPMENTS)Notes...

Television land links are to be found in 116T-1600 Group.

In this Sub-group, each Main System of equipment is assigned a separate Class No. (i.e. -01, -02, etc.), in sequence.

When a Publication for an equipment Main System is an entity on its own, requiring no Sub-System books, "00" completes the 2nd Element of the Code No. (i.e. -0100-, -0200-, -0300-, etc.).

If, conversely, a Publication for an equipment Main System is to be accompanied by separate publications for its various Sub-Systems or individual equipments (i.e. that which comes within and forms part of the Main System), then the Item No. "01" completes the 2nd Element for the Main-System Publication and the remainder of the Class (i.e. Item No. "02", "03", "04", etc.) is available for the related Sub-System, or component, Publications.

116Q-0001 to -00999	General information on radio links (ground)
-0100 to -01999	(Class closed to further coding)
-0200 to -02999	(Class closed to further coding)
-0300 to -03999	(Class closed to further coding)
-0400 to -04999	Radio link equipment, Standard Telephones and cables Types FP11, FP12, and FP13
-0500 to -05999	Miscellaneous channelling equipment (Class closed to further coding)
-0600 to -06999	Radio link system (Neatishead - Bawdsey)
-0700 to -07999	(Class closed to further coding)
-0800 to -08999	(Class closed to further coding)

RADIO LINKS (GROUND EQUIPMENTS) (Contd)

116Q-0900 to -09999
-1000 to -10999
-1100 to -11999
-1200 to -12999
-1300 to -13999
-1400 to -14999
-1500 to -15999
-1600 to -16999
-1700 to -17999
-1800 to -18999
-1900 to -19999
-2000 to -20999

RADIO/RADAR DETECTION AND CALIBRATION EQUIPMENT

116R-0001 to -00999	General information on radio/radar detection and calibration
-0100 to -01999	Detection and calibration receivers
-0200 to -02999	Airborne D/F equipment
-0300 to -03999	Analysing equipment
-0400 to -04999	Integrated display equipment
-0500 to -05999	Suppression equipment
-0600 to -06999	Training equipment

SATELLITE SYSTEMS, STATIONS, AND EQUIPMENT

116S-0001 to -00999	General information on satellite systems
-0100 to -01999	Satellite systems
-0200 to -02999	Earth stations and associated equipment
-0300 to -03999	Satellites
-0400 to -04999	Satellite simulators
-0500 to -05999	Satellite system computer programmes

TELEVISION

Note...

Video recording and reproducing equipment is coded in 116L-06.

Pattern and colour signal generators are coded in 117E-08.

116T-0001 to -00999	General information on television
-0100 to -01999	Cameras, accessories, and control units
-0200 to -02999	Camera mountings and dollies
-0300 to -03999	Synchronizing-pulse generators
-0400 to -04999	Line distribution amplifiers
-0500 to -05999	Modulators
-0600 to -06999	Transmitters
-0700 to -07999	Aerial equipment
-0800 to -08999	Receivers
-0900 to -09999	Projectors
-1000 to -10999	Projection screens

TELEVISION (Contd)

116T-1100 to -11999	Picture-display (frame scan) monitors
-1200 to -12999	Signal-waveform-display monitors
-1300 to -13999	Power-supply equipment
-1400 to -14999	Image contour-correction equipment
-1500 to -15999	Miscellaneous control equipment
-1600 to -16999	Television land links

POWER SUPPLIES (GENERAL-PURPOSE)Note...

Power equipment used for radar applications which is, or can be, General Purpose should not be coded in 115U code group.

Power equipment for specifically servicing and test purposes is coded in Sub-group 117C.

Telegraph, teleprinter and telephone power equipment are coded in 116M-10.

116U-0001 to -00999	General information on power supplies for radio communication equipment
-0100 to -01999	Batteries
-0200 to -02999	Transformers
-0300 to -03999	Rotary generators (a.c. and/or d.c.)
-0400 to -04999	A.C. voltage ('mains') stabilizers
-0500 to -05999	Low-Tension power units
-0600 to -06999	High-Tension power units
-0700 to -07999	Extra-High-Tension power units
-0800 to -08999	lt, ht, and/or eht (combined supplies) power units
-0900 to -09999	Ancillary equipment (interconnecting cables, panels, plugs and sockets)

MISCELLANEOUS

116Z-0001 to -00999	General information on miscellaneous radio equipment (see Classes below)
-0100 to -01999	Relays (light duty)
-0200 to -02999	Uniselectors
-0300 to -03999	Crystals
-0400 to -04999	Microphones and telephones
-0500 to -05999	Cooling equipment
-0600 to -06999	Frequency synthesizers (High-stability frequency-multiplier generators)
-0700 to -07999	Aircraft static dischargers (see also 101A-05)
-0800 to -08999	Time measuring instruments

Topic List

<u>Topic</u>							<u>3rd-Element No.</u>
General and technical information (Note 1)...	...	...	...	...	...	...	-1
General Orders and modifications	...	...	...	...	...	...	-2
Illustrated parts catalogue	...	...	...	...	...	...	-3A
Scales of test equipment	...	...	...	...	...	...	-3C
Scales of servicing spares	...	...	...	...	...	...	-3D
In-situ servicing schedules	...	...	...	either	-4ABCD	or -5ABCD	
Planned bay servicing schedule	...	...	...	...	...	...	-4F
Basic bay servicing schedule	...	...	...	...	...	...	-5F
Repair and reconditioning instructions (Note 1)	...	...	...	...	...	...	-6
Preservation and storage	...	...	...	...	...	...	-7
User handbook*	...	...	...	...	...	...	-8
Servicing diagrams and data	...	...	...	...	...	...	-10

Note...

1. In some cases the technical information is found in the topic 6 and not the topic 1.

* Typical application for -8 in this Group is for tape programme Publications.

Section 1-2

GROUP 117: RADIO, RADAR AND LINE
GENERAL PURPOSE TEST EQUIPMENTRADIO AND RADAR TEST DATA, TEST METHODS, AND TEST EQUIPMENT - GENERAL
INFORMATION

117A-0001 to -00999	Indices and catalogues
-0100 to -01999	Concise details of general-purpose test equipment
-0200 to -02999	General test methods and practices
-0300 to -03999	

POWER-MEASURING INSTRUMENTS

117B-0001 to -00999	General information on power measurement and indication
-0100 to -01999	Audio/Video frequencies (d.c. to 5 MHz)
-0200 to -02999	Radio frequencies (5 MHz to 1000 MHz)
-0300 to -03999	Microwaves (1,000 MHz upwards)
-0400 to -04999	Equipment covering two or more frequency bands
-0500 to -05999	Power factor meters

POWER SUPPLIES

117C-0001 to -00999	General power-supply information for servicing and testing
-0100 to -01999	Variable transformers ('Variac')
-0200 to -02999	Transformers (fixed output(s)) for servicing and testing (heater transformers, ht etc.)
-0300 to -03999	Rotary generators (a.c. and/or d.c.)
-0400 to -04999	A.C. voltage stabilisers ('mains' type)
-0500 to -05999	Low-Tension power supplies) a.c. and/or d.c.,
-0600 to -06999	High-Tension power supplies) with or without
-0700 to -07999	Extra-High-Tension power) subsidiary (e.g. supplies (over 1.000V)) tapped) outputs
-0800 to -08999	Combinations of lt, ht or eht (power supply units that cannot be conveniently placed in Classes -05, -06, or -07)
-0900 to -09999	Power distribution boards, plugs and sockets

WAVELENGTH, FREQUENCY, AND TIME-MEASURING INSTRUMENTS

117D-0001 to -00999	General information on wavelengths, frequency, and time measurement
-0100 to -01999	Audio/video frequencies (d.c. to 5 MHz)
-0200 to -02999	Radio frequencies (up to 1,000 MHz)
-0300 to -03999	Microwaves (1,000 MHz upwards)
-0400 to -04999	Test equipment capable of measuring in two or more frequency bands
-0500 to -05999	Distortion factor meters and waveform analysers
-0600 to -06999	Spectrum analysers

WAVELENGTH, FREQUENCY, AND TIME-MEASURING INSTRUMENTS (Contd)

117D-0700 to -07999	Frequency deviation meters
-0800 to -08999	Modulation meters
-0900 to -09999	Calibrators
-1000 to -10999	Counters
-1100 to -11999	Pulse-width meters
-1200 to -12999	Interval timers
-1300 to -13999	Phase meters and phase shifters
-1400 to -14999	Frequency dividers

SIGNAL GENERATORS, OSCILLATORS, AND PULSE GENERATORS

Note...

Oscilloscopes incorporating their own signal generator for the purpose of providing a self-generated signal for monitoring are coded in 117K-02.

117E-0001 to -00999	General information on signal generators, oscillators, and pulse generators
-0100 to -01999	Audio/video frequency generators (d.c. to 5 MHz)) One-band instruments (for multi-
-0200 to -02999	Radio-frequency generators (5 MHz to 1,000 MHz)) range generators, see Class -04)
-0300 to -03999	Microwaves (1,000 MHz upwards))
-0400 to -04999	Signal generators covering two or more frequency bands and frequency converters
-0500 to -05999	D.C. pulse and waveform generators
-0600 to -06999	Frequency-sweep generators, wobblers
-0700 to -07999	Noise generators
-0800 to -08999	Television pattern generators (<u>i.e.</u> cross-hatch or grating, dot, shadow, colour-bar, etc.)

IMPEDANCE-MEASURING INSTRUMENTS (INCLUDING R, L, C, Q, G, B and Y)

117F-0001 to -00999	General information on impedance-measuring instruments
-0100 to -01999	Equipment for measuring very low resistance paths (<u>e.g.</u> milliohm meters)
-0200 to -02999	Equipment for measuring component resistances
-0300 to -03999	Equipment for measuring very high resistances (<u>e.g.</u> Meggers, insulation-resistance testers)
-0400 to -04999	Inductance measuring instruments
-0500 to -05999	Capacitance measuring instruments
-0600 to -06999	Dielectric-constant measuring instruments
-0700 to -07999	Q meters (any frequency)
-0800 to -08999	General impedance-measuring equipment measuring two or more parameters
-0900 to -09999	Standing-wave measuring equipment and indicators

Note...

See also 120M-01.

CURRENT, VOLTAGE, AND FIELD-STRENGTH MEASURING INSTRUMENTSNote...

Panel-mounted voltage and current meters are not included in Group 117.

117G-0001 to -00999	General information on current, voltage and field-strength measuring instruments)	Notes 1, 2
-0100 to -01999	Direct Current only (Single- and multi-range, instruments))	
-0200 to -02999	Alternating Current only) Single- and)	
-0300 to -03999	Direct Voltage only) multi-range,)	
-0400 to -04999	Alternating Voltage only) instruments)	
-0500 to -05999	Multi-range meters measuring more than one parameter (see Classes -01 to -04))	
-0600 to -06999	Valve/electronic, single or multi-range	
-0700 to -07999	Peak-pulse-amplitude meters	
-0800 to -08999	Field-strength meters (including polar-diagram plotters, resonant-cavity performance testers, echo boxes and aerial alignment equipment)	
-0900 to -09999	R.F.-radiation-hazard meters	
-1000 to -10999	Digital reading voltmeters (single- or multi-range)	

Note...

1. Other than valve, electronic or digital.
2. See also 120M-01 for multi-range instruments.

FILTERS, ATTENUATORS, TRANSFORMERS, AND MATCHING PADSNote...

This Sub-group includes dummy loads, matched impedances, directive couplers, short circuits, wave-guide transformers, piston attenuators, Faraday rotation devices, etc.

117H-0001 to -00999	General information on filters, attenuators, transformers, and matching pads
-0100 to -01999	Audio/video frequencies
-0200 to -02999	Radio frequencies
-0300 to -03999	Microwave frequencies
-0400 to -04999	Items covering two or more frequency bands

RECEIVERS AND AMPLIFIERS, AND ASSOCIATED MEASURING EQUIPMENT

117J-0001 to -00999	General information on receivers, amplifiers, and associated measuring equipment
-0100 to -01999	Receivers
-0200 to -02999	Amplifiers
-0300 to -03999	Test equipment measuring one or more characteristics of receivers or amplifiers, e.g. <u>Sensitivity</u> : noise factor, signal/noise ratio, gain <u>Selectivity</u> : bandwidth <u>Fidelity</u> : amplitude, frequency and phase response or distortion <u>Logarithmic</u> : test sets

C.R.T. EQUIPMENT (OSCILLOSCOPES, MONITORING, AND OTHER EQUIPMENT)

117K-0001 to -00999	General information on cathode-ray-tube equipment
-0100 to -01999	General-purpose oscilloscopes
-0200 to -02999	Signal generators incorporating c.r.t. monitoring
-0300 to -03999	

COMPONENT TESTERS

117L-0001 to -00999	General information on component testers
-0100 to -01999	Valve testers
-0200 to -02999	Semi-conductor testers (transistors, diodes etc.)
-0300 to -03999	Crystal testers
-0400 to -04999	Microphone, and headset, testers
-0500 to -05999	Electrolytic-capacitor test equipments
-0600 to -06999	Cable and connector testers and bench connector sets
-0700 to -07999	Relay testers

TEST SETS AND TEST KITS (COMBINATION INSTRUMENTS)

117M-0001 to -00999	General information on test sets and kits
-0100 to -01999	Test sets
-0200 to -02999	Test kits
-0300 to -03999	Automatic test sets and equipment (auto-test routines, analysis, diagnosis)

Note...

For instrument auto-testing, see 112T-02.

MISCELLANEOUS TEST EQUIPMENT (THAT WHICH CANNOT BE READILY CATEGORIZED ELSEWHERE IN THIS GROUP)

117X-0001 to -00999	General information on miscellaneous test equipment (see Classes below)
-0100 to -01999	Leak detectors and indicators
-0200 to -02999	Magnetic flux-density equipment
-0300 to -03999	Insertion-loss equipment
-0400 to -04999	Control units
-0500 to -05999	Indicating units and graphical recording equipment (<u>not</u> ultra-violet, see 116L-07 Group)
-0600 to -06999	Detector units (sound etc.)
-0700 to -07999	Junction boxes
-0800 to -08999	Magic-eye indicators
-0900 to -09999	Modulators
-1000 to -10999	Probe assemblies
-1100 to -11999	Ionization voltage test equipment
-1200 to -12999	Fire detection test equipment
-1300 to -13999	Gyro simulator test equipment
-1400 to -14999	Test trolleys
-1500 to -15999	Logic circuit-panel testers
-1600 to -16999	RF electromagnetic shielding (test cages etc.)

Note...

For Morse Undulators, see 116M-08.

Topic List

<u>Topic</u>						<u>3rd-Element No.</u>
General and technical information	...	...	...	...	...	-1
General Orders and modifications	...	...	...	...	...	-2
Illustrated parts catalogue	...	...	...	...	...	-3A
Scales of test equipment	...	...	...	...	...	-3C
Scales of servicing spares	...	...	...	...	...	-3D
Planned bay servicing schedule	...	...	...	...	...	-4F
Basic bay servicing schedule	...	...	...	...	...	-5F
Repair and reconditioning instructions	...	...	...	...	...	-6
Preservation and storage	...	...	...	...	...	-7
Servicing diagrams and data	...	...	...	...	...	-10

Section 2

GLOSSARY OF ABBREVIATIONS

A.-----	Amplifier, Type -----	C.D.	Confidential document
a/c	Aircraft	Ch.	Channel or chassis
ACR	Airfield control radar	CH	Chain home
A.D.	Air diagram	CH/L	Chain home, low
A.D/F	Automatic direction- finding	Circ.	Circuit
Ae.	Aerial(s)	CMH	Centimetric height- finding apparatus
AF	Audio frequency	CO	Chain overseas
AF and RG	Aerial framework and rota- tion gear	CO/L	Chain overseas, low
AFC	Automatic frequency control	Comm.	Communications
AGC	Automatic gain control	Comp. loc.	Component location
AGLT	Assisted gun-laying in turrets	Con.	Console
AGS	Automatic gain stabi- lization	CRT	Cathode ray tube
AI	Aircraft interception	c/s	Cycles per second
Align.	Alignment	CT	Common test equipment
AMES	Air Ministry Experimental Station (Ground radar)	CU	Control unit
AN/-----	American installation*	CV	Common valve
A.P.	Air Publication	Des.	Description
API	Air position indicator	DFg.	Direction finding (Marconi)
ARAA	Airfield radio approach aid	D/F	Direction finding
ARI.	Airborne radio installation	D.H.	De Havilland
ASV	Air to surface vessel	/DIAGS.	When suffixed to an A.P. number, indicates that a separate set of cir- cuit diagrams included in the publication is available in an envelope
Assy.	Assembly or assembling	Dism.	Dismantling
ATGRI.	Air transportable ground radio installation	Div.	Diversity reception
A.T.M.	Automatic Telephone Manufacturing Co.	Dr.U	Drive unit
ATP	Air Technical Publications	EM	Electro-magnetic
Auto	Automatic	E.M.I.	Electrical and Musical Industries Ltd.
BA	Beam approach	Eqt.	Equipment
BABS	Beam approach beacon system	ES & S	Equipment Schedules and Spares (Vol.3)
BFI	Back to front identifi- cation	F.A.A.	Fleet Air Arm
Bl.sch.(BS)	Block schematic	FGRI(AT)	Fixed ground radio instal- lation (air transport- able)
BPGS	Blind predicting gunsight	F.I.S.	Fighter identification system
B.S.U.	Bomber Signals Unit	F.M.	Frequency modulation
B.T.-H.	British Thomson-Houston	FS	Frequency shift
Cal.	Calibration or calibration	FSK	Frequency shift keying
C.A.W.	Common aerial working		
C.A.F.	Commonwealth Air Forces		
C.C.S.	(C.A.F.) Circuit control section		
CD	Coastal defence		

*See Sect. 3 of this Part - "Notes on American equipment nomenclature"

G.E.C.	General Electric Company	N.A.A.	Naval Air Arm
G.P.	General Purpose	N.B.S.	Navigation and bombing system
Gee-R	Gee-Rooster		
Gen.	General, Generator		
HF	High frequency	O.I.P.	Operational Instruction Pamphlet
H/R	Height-range	Op.	Operating, operator
H/S	High Speed	Osc.	Oscillator
Hz	Hertz		
H2S	Name of radio navigation system	Partics.	Particulars
		Ph.	Phase
I/C	Intercommunication	PP	Power Pack
ICH	Intermediate chain home	PPI	Plan position indicator
IF	Intermediate frequency	Prep.	Preparation
IFF	Interrogation, friend or foe	PRF	Pulse recurrence frequency
ILS	Instrument landing system	Prov.	Provisional publication
Ind.	Indicator	PT	Performance tester
Inf.	Information	PU	Power unit
Infogen	Information generator	R.----	Receiver, Type ----
Inst.	Installation	R.A.	Rack assembly
Intercon.	Interconnection	Rad.	Radio
IU	Indicating unit	R.A.F.	Royal Air Force
		RC	Remote control
JB	Junction box	RCM	Radio countermeasures
		RDF	Radio direction finding (radar)
kc/s	Kilocycles per second	Reas.	Reassembly
kHz	Kilo-Hertz	Reb.	Rebecca system
kVA	Kilovolt ampere	Rec.	Receiver or receiving
		Rect.	Rectifier
Ldg.	Loading	RF	Radio frequency
		R.P.D.S.	Radar photographic display system
MCRI.	Marine craft radio installation	R.R.E.	Radar recording equipment
Mc/s	Megacycles per second	R/T	Radio telephony
MF	Medium frequency	RTP	Research and Technical Publications (now A.T.P.)
MHz	Mega-Hertz		
M.I.	Marconi Instruments Ltd.	RU	Receiving unit
Mic.	Microphone(s)	R.V.	Radio vehicle
MGRI(AT)	Mobile ground radio installation (air-transportable)	RVT.---	Radio vehicle Type ---
		Rx	Receiver
Met.-Vick.	Metropolitan-Vickers		
Min.	Miniature	SBA	Standard beam approach
Mod.	Modulator or modified	S band	9 cm. band
Mon.	Monitor	S.C.	Simplified circuit
MoA	Ministry of Aviation	SCR	American installation
Mk.	Mark	Scr.	Screen
MRU	Mobile radio unit	Schem.	Schematic
Mtg.	Mounting	S.D.	Secret document
MV	Multivibrator	SG	Signal generator
μV	Microvolt	SIF	Selective identification feature
MWT	Marconi's Wireless Telegraph Co.		

Simp.	Simplified	TRI	Test rig installation
SOC	Sector Operations Centre	TS	Test set
SRI.	Shipborne radio installation	TU	Transmitter unit
S.R.A.	Sound reproducing apparatus	Tun.	Tuner or tuning
S.R.U.	Sound reproducing unit	Tx	Transmitter
SR & R	Sound recorder and reproducer	U	Unit
SSB	Single sideband	UHF	Ultra high frequency
S.T.C.	Standard Telephones and Cables Ltd.	Veh.	Vehicle
SU	Setting-up or switch unit	VHF	Very high frequency (usually taken as the 100-150 Mc/s band)
SUI	Setting-up instructions	Vid.	Video
Syst.	System	V/P/S/C	Volume/Part/Section/ Chapter (subdivisions of an A.P.)
T.----	Transmitter, Type ----	VRB	Voice rotating beacon
TBA	Tunable beam approach	W.----	Wavemeter, Type ----
Tes.	Testing	WFG	Waveform generator
TGRI(AT)	Transportable ground radio installation (air transportable)	Wfms	Waveforms
T/P	Teleprinter	W/T	Wireless telegraphy
TR.----	Transmitter-receiver, Type ----	X band	3.1 to 3.3 cm. band
Tr.	Trainer		

Section 3

NOTES ON AMERICAN EQUIPMENT NOMENCLATURE

This summary of the Joint Nomenclature System ("AN" System) for American Communication-electronic equipment is provided as an aid to understanding the classification of certain U.S. electronic equipment.

The system indicator "AN" signifies that the equipment designation was assigned under the Joint "AN" system; it does not necessarily mean that the Army, Navy or Air Force use the equipment. The "AN" nomenclature as assigned to complete sets of equipment consists of the letters "AN" followed by a solidus (oblique stroke) and then three identifying letters. The three code letters following the solidus provide a brief description of the equipment; the first letter is used to indicate the type of installation, the second letter gives the type of equipment and the third letter indicates the purpose of the equipment. The meanings of the code letters in the three positions are:-

First letter (Type of Installation)	Second letter (Type of equipment)	Third letter (Purpose of equipment)
A - Airborne	A - Invisible light	A - Auxiliary assemblies
B - Underwater mobile, submarine	B - Pigeon	B - Bombing
C - Air transportable	C - Carrier	C - Communications
D - Pilotless carrier	D - Radiac	D - Direction finder
F - Fixed	E - Nupac	E - Ejection and/or release
G - Ground	F - Photographic	G - Fire Control
K - Amphibious	G - Telegraph/Teletype	H - Recording
M - Ground, mobile	I - Interphone	L - Searchlight control
P - Pack or portable	J - Electro-mechanical	M - Maintenance and test assemblies
S - Water surface craft	K - Telemetering	N - Navigational aids
T - Ground, transportable	L - Countermeasures	Q - Special (or com- bination of purposes)
U - General utility	M - Meteorological	R - Receiving, passive detecting
V - Ground, vehicular	N - Sound in air	S - Detecting and/or range and bearing
W - Water surface and underwater	P - Radar	T - Transmitting
	Q - Sonar	W - Control
	R - Radio	X - Identification
	S - Special types	
	T - Telephone (wire)	
	V - Visual, and light	
	W - Armament	
	X - Facsimile	

A number following the letters indicates the model number of the equipment, and a letter after the model number indicates later modifications. Thus AN/ARR-6C would refer to the third modification of the sixth model of an airborne, radio, receiving equipment.

It should be noted that the "AN" system only applies to complete sets of equipments. For major units of equipments, reference has to be made to a "Table of Component Letters" which is too complex to include in this summary. Major units are designated by substituting the component letters (obtained from the Table of Component Letters) and the model number for the letters "AN", e.g. T51/ARQ-8 is Transmitter No.51 which is part of, or used with, an airborne, radio, special set No.8.

Section 4

NATO APPROVED LETTER BAND DESIGNATIONS

The table below lists the letter band designations as agreed by NATO with effect from 1/1/72.

Letter	Band	Channel (1)
	Frequency in MHz	Width MHz
A	0-250	25
B	250-500	25
C	500-1000	50
D	1000-2000	100
E	2000-3000	100
F	3000-4000	100
G	4000-6000	200
H	6000-8000	200
I	8000-10000	200
J	10000-20000	1000
K	20000-40000	2000
L	40000-60000	2000
M	60000-100000	4000

- Notes: (1) Each band is divided into 10 numbered channels with width as shown, e.g., "A5" = 100-125 MHz; "H7" = 7200-7400 MHz.
- (2) Exact frequency may be identified by defining the band, the channel (base or lowest frequency) and adding the MHz required, e.g., "D4 plus 15" = 1315 MHz.
- (3) The frequency band limits above are exactly as agreed by NATO. For intra-UK use the upper limit should be read as "up to but not including". This will ensure that specific frequencies are included in one band only and not in two as above, e.g.:-

Band A 0-249.999 MHz

B 250-499.999 MHz etc.

