



WS No. 19 Mark III

**This file has been down loaded from
The Wireless-Set-No19 WEB site.**

**All files from this WEB site are free of charge.
If you have been charged for this file then please
contact the person you obtained it from as he/she
has illegally obtained both the file and money they have
charged you.....**

R E S T R I C T E D

**ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS**
(By Command of the Defence Council)

TELECOMMUNICATIONS
A 760

The information given in this document is not to be communicated, either directly or indirectly, to the Press or to any person not authorized to receive it.

CONDITIONS OF RELEASE

(Applicable to copies supplied with Ministry of Defence approval to Commonwealth and Foreign Governments)

1. This document contains classified UK information
2. This information is disclosed only for official use by the recipient Government and (if so agreed by HM Government) such of its contractors, under seal of secrecy, as may be engaged on a defence project. Disclosure or release to any other Government, national of another country, any unauthorized person, the Press, or in any other way would be a breach of the conditions under which the document is issued.
3. This information is to be safeguarded under rules designed to give the same standard of security as those maintained by HM Government in the UK.

REPAINTING OF ELECTRONIC EQUIPMENT

Note: This Issue 6, supersedes Issue 5, Pages 1-22 dated 18 Nov 58 and Issue 2, Page 0 dated 18 Feb 68. The regulation has been revised.

GENERAL

1. This regulation specifies the paints to be used for the repainting of electronic equipments. In exceptional cases special paints may be required and reference is to be made to the regulation covering the field and base repairs of an equipment before repainting is commenced.

2. Table 1 lists the equipments and surfaces covered by this regulation and the paints and thinners to be used. Strict economy will be exercised in the use of paint. Equipments must not be repainted in entirety merely for the sake of uniformity of colour. Where Army Department programmes are concerned, the final authority in this respect will be the CQE HQ Technical Group REME.

SURFACE PREPARATION

3. The surface to be painted must be first prepared by removing all traces of grease, oil, dirt, loose paint, rust or corrosion products. If paint removal is not necessary this is to be done by swabbing with thinners and wire brushing. White spirit (H1/8010-99-942-7564) is suitable for vehicle paints, and solvent cleaning for cellulose nitrate finishes (H1/8010-99-943-3046) may be used prior to DEF 1059 paints. The old paint surface is to be rubbed down smooth with abrasive paper or cloth, preferably 'wet and dry'. Should this operation cause bare patches of the metal surface to appear, a coat of primer is to be applied to that area prior to finishing coats. Where complete removal of the old paint is necessary on components, wholly of iron or steel, the procedure detailed in Wksp N 221 (G 300 when re-issued) is to be followed.

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

4. Non-ferrous components or components made partly from ferrous and partly from non-ferrous metals, which cannot be separated must NOT be treated in caustic soda solution. Where removal of paint is necessary, such articles are to be immersed in one of the following solutions:-

a. Solution, paint and carbon remover H2/8010-99-220-2315 diluted with 1 to 3 times its volume of water and heated to 50-60°C (120-140°F).

b. Paint remover, cold immersion type H1/8010-99-220-1423: This paint remover is used at room temperature. A layer of water of about 4 inches in depth must be maintained on the surface of the solution to prevent loss by evaporation of the active principle - methylene chloride. The stripper can be used on all metals, but magnesium components must be immersed below the water layer otherwise contact with iron and water may cause electrolytic corrosion of the magnesium.

c. Paint remover, stripalene 713 H1/8010-99-224-0139. This stripper is of the cold immersion type, but must be used only for the removal of paints that are not attacked by solutions a. or b.

5. Magnesium alloys will be further treated by immersion in a CHROMATING bath of the following composition:-

Sodium dichromate H1/HA12931 - 100 lb
Manganese sulphate H7/6810-99-220-0630 - 50 lb
Magnesium sulphate H7/6505-99-210-2458 - 50 lb
Water: to make 100 gallons of solution

6. Operation and control of bath: The bath can be operated at any temperature up to boiling point. The following durations at different temperatures are given as a guide:- 1.1/2 hours at 20 to 30°C; 30 minutes at 50 to 60°C; 15 minutes at 70 to 80°C; 3 to 10 minutes at boiling point. The acidity of the bath varies from about pH4 when freshly prepared to about pH6 when exhausted. An exhausted solution may be rejuvenated by the addition of 5% W/V of manganese sulphate. Alternatively, sulphuric acid, or a mixture of equal weights of sulphuric acid and chromic acid may be added until the pH value is reduced to not less than 4.

Note: Chromic acid (Chromium trioxide) 7lb tin - H1/6840-99-220-2479. Sulphuric acid B.P.C. 1 winch quart - H7/6505-99-210-7146

7. The pH of the solution may be determined by means of an indicator paper, the most suitable of which is the universal type, with a pH range from 1 to 11. A piece of the paper is moistened or dipped into the solution and the colour which develops is matched against a colour change chart printed, with its corresponding pH values, on the inside of the cover of the booklet.

Note: Indicator paper, universal - NIV (Johnsons of Hendon, London)

RESTRICTEDELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

8. After chromating, the articles must be thoroughly washed in water not exceeding 50°C and dried.

Note: Where the magnesium alloy is corroded, all corrosion products will first be removed by brushing and immersing in a bath of boiling 10% caustic soda plus 1.5% sodium dichromate (HA 12931). Wash in cold water and dip in 5% nitric acid at room temperature. Repeat if necessary until the surface is bright and clean. Wash thoroughly and transfer immediately to the chromating bath.

9. Wooden parts or components to which wood is attached are not to be immersed in any solution described in para 3-4. Where paint removal is necessary it can be effected by applying a coat of paint remover (H1/8010-99-942-6145), leave for 10-20 minutes for the paint to soften and lift, and remove by scraper or wire wool and water, and dry. A wipe over with white spirit or thinners will improve the paint adhesion. Care will be exercised when using this paint remover on parts joined by adhesive since it will attack some adhesives and rubber.

PAINTING

10. Wksp N 251 (G500 when re-issued) gives general guidance on painting and the procedures laid down are to be used on all exposed structures or surfaces. Paints detailed in Table 1 item 1 are to be used. Joints in exposed structures are to have two coats of primer prior to assembly in all cases where assembly takes place before application of the finishing coats. In the case of wood to metal joints the primer is to be the one detailed for wood.

11. Stoving type paints are included in Table 1 as alternative to air drying types. These should be used where conditions and facilities permit, but in such cases the primer, undercoat (if any) and finishing coat are to be of the stoving type. In patch painting, air drying types only are to be used. Stoving type paints must not be used on plastic components.

12. Where conditions permit spray painting is preferred to brush painting. The paints listed are prepared for use and thinners should not normally be necessary. Where it is necessary care must be taken to use the appropriate thinner. Over thinning should be avoided. Wksp N 251 (G 500 when re-issued) gives guidance.

13. On non-ferrous metals, increased paint adhesion is obtained by a coat of paint pretreatment prior to the application of the primer. Paint pretreatment consists of an acid component (H1/8010-99-942-6081) and a base component (H1/8010-99-942-6082). These are mixed in the proportion of 1 of acid to 2 of base by volume, which gives a paint of brushing consistency. For spraying it must be thinned with N butanol technical (H1/6810-99-942-6161) to be consistency of approximately 20-22 seconds (Ford 4 cup). The mixed material must be used within 4 hours of mixing. It can be air dried (4 hours) or force dried by stoving at 90°C (200°F) for 15 minutes. The priming coat is to be applied 4-6 hours after the application of the paint pretreatment. Where the latter is force dried the primer may be applied after 2 hours. In no case must the paint pretreatment be left for more than six hours before applying the priming coat.

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

14. For the internal surfaces of waveguides, the varnish specified in Table 1 item 15 is to be used. The waveguide must be cleaned, dried in an oven, and filled completely with varnish while still warm, drained off and dried with a current of air running through. To obtain an even film and assist draining it may be necessary to add thinners to the varnish.

15. Equipments to which a hammer finish type paint has been applied are to be touched up using the paints specified in Table 1 item 5. Where complete repainting is necessary in the hammer finish (TS 345), approval must be obtained to local purchase the paint. Hammer finish paints are to be purchased from:- Bryce Weir Ltd., Watford, Herts. The approved paints are stoving types and the correct stoving temperature and time should be confirmed with the manufacturer. In other cases the panels are to be finished in high gloss paint of the colour required listed in Table 1 item 4. In either case one coat of primer and one coat of finishing paint must be applied.

OVERSEAS COMMANDS

16. In Middle East theatre the normal undercoat and finishing coat colours will be Portland stone and Light stone (BSC361) respectively. In some areas of this Command this may be unsuitable and before commencing a complete repainting of an equipment, confirmation is to be obtained from the EME Directorate of the Command. Workshops in other theatres should likewise ascertain if local variation of colour is required.

ROYAL NAVY RADIO EQUIPMENTS

17. The finishes for Royal Navy protected radio equipments are given in Table 2.

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table 1 - Paints and varnishes

Item	Equipment	Surface and coat	VAOS No	Sub-section H1 (a)
1	Exposed structures, including towers, masts, cabins trailers, transit cases and housings, external and internal surfaces of vehicles	Wood (primer)	H1/8010-99-910-6661	XIV
			H1/8010-99-942-6083	III
		Iron or steel (primer)	H1/8010-99-910-6649	XIV
			H1/8010-99-910-6646	XIV
			H1/8010-99-910-6653	XIV
			H1/8010-99-910-6660	XIV
			H1/8010-99-942-6089	XIV
		Light alloys zinc plated or zinc sprayed steel. Zinc alloys. (cont)	H1/8010-99-910-6664	XIV
			H1/8010-99-910-6653	XIV

R E S T R I C T E D

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

to be used on electronic equipment

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
BS 2521	24	Paint, priming, red and white lead, brushing	24 hours must be allowed before application of colour coats
CS 2686	6-24	Paint, priming, aluminium, water resistant, brushing	To be used on all woodwork which has been treated with copper naphthenate solution, wood preservative, H1/6810-99-942-9393, on wood/aluminium joints
DEF 1035	Surface dry 2 Hard dry 4	Paint, priming, red oxide of iron/zinc chrome, spraying	In all cases apply second coat within 48 hours
DEF 1035	Surface dry 2 Hard dry 4	Paint, priming, red oxide of iron/zinc chrome, brushing	
DEF 1036	Stove 25 min at 100°C (215°F)	Paint, priming, red oxide of iron/zinc chrome, stoving spraying	May be used where facilities exist for stoving. Must be followed by the stoving type undercoats and finish coats applicable
BS 2523 type B	7 days	Paint, priming, red lead, brushing	Allow 7 days to dry before applying next coat
CS 2861	24	Paint, priming, metallic lead, brushing	Allow to dry 24 hours before applying next coat
DEF 1039	Hard Dry 4	Paint, priming, zinc chrome, brushing	Allow 8 hours to elapse before applying next coat
DEF 1036	Stove 25 min at 100°C (215°F)	Paint, priming, red oxide of iron/zinc chrome, stoving spraying	May be used on aluminium or copper alloys or plated steel components if stoving facilities exist

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
1 (cont)		Cadmium plated steel. Gun metal and brass (primer) Durestos		
		All surfaces (undercoats)	H1/8010-99-910-6750	XIX
			H1/8010-99-910-6742	XIX
			H1/8010-99-910-6755	XIX
			H1/8010-99-910-6753	XIX
			H1/8010-99-910-6746	XIX
		All surfaces (finishing) except:- Radar, AA, No 4, Mk 7 Cabin top catwalk, cheese and earth planes	H1/8010-99-910-6714	XIX
	H1/8010-99-910-6730	XIX		

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
			In both cases (air dry or stoved) better adhesion can be obtained by applying a coat of paint pretreatment prior to the primer. Damaged zinc sprayed surfaces on Durestos aerials to be dealt with as detailed in Radar and FCE O 244 Pt 1
DEF 1044	16	Paint, undercoat, for paint finishing, vehicles, spraying dark Admiralty grey, BSC 632	To be followed by deep bronze green (BSC 224). Finishing coat is H1/8010-99-910-6714 or 6730
DEF 1044	16	Paint, undercoat, for paint, finishing, vehicles, brushing, dark Admiralty grey, BSC 632	
DEF 1045	Stove 30 min at 120°C (250°F)	Paint, undercoat, for paint, finishing, vehicles, stoving, spraying, Admiralty grey BSC 632	May be used where stoving facilities are available, with stoving type primer and finishing coats. Finishing coat is H1/8010-99-910-6736
DEF 1044	4	Paint, undercoat, for paint, spraying, vehicles, Portland stone	For Middle East theatres. Finishing coat to be H1/8010-99-910-6720 or 6735
DEF 1044	4	Paint, undercoat, for paint, brushing, vehicles, Portland stone	
DEF 1044	16	Paint, finishing, vehicles, high gloss, brushing, deep bronze green, BSC 224	
DEF 1044	16	Paint, finishing, vehicles, high gloss, spraying, deep bronze green, BSC 224	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub- section H1(a)
1 (cont)			H1/8010-99-910-6736	XIX
			H1/8010-99-910-6720	XIX
			H1/8010-99-910-6735	XIX
			H1/8010-99-942-1179	XX
			H1/8010-99-942-1183	XX
			H1/8010-99-910-7027	VII
			H1/8010-99-910-7042	VII
			H1/8010-99-910-7021	VII
			H1/8010-99-942-3143	VII
		Radar, AA, No 4, Mk 7 Cabin top cat-walk, top of cheese and earth plane	H1/8010-99-942-1201	
			H1/8010-99-220-2003	

R E S T R I C T E D

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 1045	Stove 30 min at 120°C (250°F)	Paint, finishing, vehicles, high gloss, stoving, spraying deep bronze green, BSC 224	To follow H1/8010-99-910- 6755
DEF 1044	16	Paint, finishing, vehicles high gloss, brushing, light stone, BSC 361	Middle East theatre only. To follow H1/8010-99-910- 6753 or 6744 only
DEF 1044	16	Paint, finishing, vehicles, high gloss, spraying, light stone, BSC 361	
DEF 1110	4	Paint, war eqpt, matt, brushing, very dark drab, SCC16	For use in FARELF only
DEF 1110	4	Paint, war eqpt, matt, spray- ing, very dark drab, SCC16	
DEF 1052	8	Paint, finishing, GS, gloss, brushing, olive drab, BSC 298	Normal finishing colour is deep bronze green but olive drab and Admiralty grey may be called for in certain circumstances
DEF 1052	8	Paint, finishing, GS, gloss, spraying, olive drab, BSC 298	
DEF 1052	8	Paint, finishing, GS, gloss, brushing, dark Admiralty grey, BSC 632	
DEF 1052	8	Paint, finishing, GS, gloss, eau-de-nil	For use on specialist B vehs permanently enclosed doors or hatches opening outwards to be as exterior of vehicles
		Paint, non-slip, olive drab	
		Paint, non-slip, light stone (1/2 gallon cans)	Middle East theatre only

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS	Sub-section H1(a)
2	Cases, transit. Cases, housing for tele-communications equipment	Finishing	H1/8010-99-910-7027 H1/8010-99-910-7021	VII
3	Interior structures, apparatus, front panels, racks, frameworks, covers <u>except</u> sealed radio equipments and radar unit chassis and panels finished in hammer finish paints	All metals (primer)	H1/8010-99-942-6086	VIII
			H1/8010-99-942-6087	VIII
		All surfaces (finishing)	H1/8010-99-942-6027	VIII
			H1/8010-99-942-6023	VIII
			H1/8010-99-942-6026	VIII

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 1052	8	Paint, finishing, GS, gloss, olive drab Paint, finishing, GS, gloss, dark Admiralty grey	One finishing coat to be applied over a suitable primer (see item 1).
CS 2307	Hard dry 12	Paint, priming, instruments, brushing, BSC 628	To be followed by H1/8010-99-942-6027 or 6023 or 6026 only.
CS 2307	Hard dry 12	Paint, priming, instruments, spraying, BSC 628	To be followed by H1/8010-99-942-6023 or 6026 or 6027 only.
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying	Should be used where stoving facilities exist and conditions permit. To be followed by 1 finish coat to Spec DEF 1059 (see para 11) To be followed by H1/8010-99-942-6023 or 6026 or 6027.
CS 2309	Hard dry 12	Paint, finishing, instruments, high gloss, spraying, olive drab, BSC 298	Choice of colour determined by equipment } To be used where stoving primer is applied (see para 11)
CS 2309	Hard dry 12	Paint, finishing, instruments, high gloss, brushing, dark Admiralty grey, BSC 632	
CS 2309	Hard dry 12	Paint, finishing, instruments, high gloss, spraying, dark Admiralty grey, BSC 632	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, finishing, instruments, high gloss, stoving, spraying olive drab, BSC 298 Paint, finishing, instruments, high gloss, stoving, spraying dark Admiralty grey, BSC 632	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table 1

Item	Equipment	Surface and coat	VAOS NO	Sub-section H1(a)
4	Equipment painted with hammer finish type paints	Carrier tele- phone equipment	NIV	-
		Front panels of radio sets	NIV	-
		Telephone switch- board front panels	NIV	-
		Teleprinter and telegraph equipment	NIV	-
		V.F. telegraph equipment	NIV	-
		Test gear	NIV	-
		Power supply equipment	NIV	-
5	Panels (hammer finish)	All surfaces (touching up only)	H1/8010-99-942-6019	VIII
			H1/8010-99-942-6020	VIII

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
TS 345	1 hour at 120°C (250°F)	Maroon, BSC 541	Only to be used as specified in para 15.
TS 345	1 hour at 120°C (250°F)	Aircraft blue, BSC 108	Equipment will be given one coat of Paint, pretreatment H1/8010-99-942-6081 and 6082 and one coat of Paint, priming, red oxide of iron/zinc chrome, stoving, to specification CS 2274 prior to applying the hammer finish paint
TS 345	1 hour at 120°C (250°F)	Opaline green, BSC 275	
TS 345	1 hour at 120°C (250°F)	Black	
TS 345	1 hour at 120°C (250°F)	Beige, BSC 388	
TS 345	1 hour at 120°C (250°F)	Dark admiralty grey, BSC 632	
TS 345	1 hour at 120°C (250°F)	Deep Brunswick green BSC 227	
CS 2309	Hard dry 12	Paint, finishing, instruments, high gloss, brushing, beige BSC 388	
CS 2309	12	Paint, finishing, instruments, high gloss, brushing, black, BSC 388	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)	
5 (cont)			H1/8010-99-942-6021	VIII	
			H1/8010-99-942-6022	VIII	
			H1/8010-99-943-3977	VIII	
			H1/8010-99-943-3978	VIII	
			H1/8010-99-943-3979	VIII	
6	Paraboloids	Steel (primer)	H1/8010-99-910-6649	XIV	
			H1/8010-99-910-6646	XIV	
		Light alloy (primer)	H1/8010-99-910-6664	XIV	
			All surfaces (undercoat)	H1/8010-99-910-6742	XIX
				H1/8010-99-910-6750	XIX

R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONSTELECOMMUNICATIONS
A 760

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
CS 2309	Hard 12 dry	Paint, finishing, instru- ments, high gloss, brushing, aircraft blue BSC 108	
CS 2309	12	Paint, finishing, instru- ments, high gloss, brushing, aircraft blue, grey-green, BSC 283	
CS 2309	12	Paint, finishing, instru- ments, high gloss, brushing maroon	
CS 2309	12	Paint, finishing, instruments, high gloss, brushing, deep Brunswick green	
CS 2309	12	Paint, finishing, instruments, high gloss, brushing, opaline green	
DEF 1035	Hard 4	Paint, priming, red oxide of iron/zinc chrome, spraying	
DEF 1035	Hard 4	Paint, priming, red oxide of iron/zinc chrome, brushing	
DEF 1039	Hard 4	Paint, priming, zinc chrome brushing	
DEF 1044	16 (Surface 3)	Paint, undercoat, for paint, finishing, vehicles, brushing Admiralty grey, BSC 632	Fit to take a brush-on finishing coat after 16 hours
DEF 1044	16 (Surface 3)	Paint, undercoat, for paint, finishing, vehicles, spray- ing, Admiralty grey, BSC 632	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table 1

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
6 (cont)		All surfaces (finishing)	H1/8010-99-942-6016	VIII
7	Radar unit chassis and ancillaries	Anodized aluminium surfaces (primer)	H1/8010-99-943-6746	-
		Unit chassis. Plain aluminium. Mild steel. Copper alloys (1st primer) (2nd primer)	H1/8010-99-942-6081 and H1/8010-99-942-6082 and H1/8010-99-942-6161 -	XIV -
		All surfaces (except unit chassis) (finishing)	H1/8010-99-943-6748	-
		Unit chassis (finishing)	H1/8010-99-943-6749	-
8	Radar unit chassis and ancillaries (where no stoving facilities)	All surfaces (primer)	H1/8010-99-942-6081 and H1/8010-99-942-6082 and H1/8010-99-942-6161	XIV

→ (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
CS 1999	2	Paint, heat diffusing, for paraboloid, olive drab, SCC 15	Used to reduce the concentration of heat rays at focal points
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying	(see para 11)
CS 2626	4 or force dry at 90°C (200°F) for 15 min	Paint pretreatment	Mix and use as in para 13
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, finishing, instruments, high gloss, stoving, spraying, deep olive drab	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, finishing, instruments, high gloss, stoving, spraying, white	
CS 2626	4 (or force dry 15 min at 90°C (200°F)	Paint, pretreatment (see para 13)	The stoving finishes are to be used where conditions permit but if stoving facilities are lacking these paints may be used

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Tab 1

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
8 (cont)		All surfaces (undercoat)	H1/8010-99-942-6086	VIII
			H1/8010-99-942-6087	VIII
		All surfaces except unit chassis (finishing)	H1/8010-99-942-6027	VIII
9	Battery boxes, floors, racks and sides of trailers	All surfaces (primer)	H1/8010-99-942-1196	I
		All surfaces (finishing)	H1/8010-99-942-1197	I
			H1/8010-99-942-1198	I
10	Radio sets and ancillaries (including RAF and Royal Marines)	Case magnesium alloy chromated, panel aluminium (primer)	H1/8010-99-943-6741	
		All surfaces (finishing)	H1/8010-99-943-6745 or H1/8010-99-943-6748	

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
CS 2307	Hard dry 12	Paint, priming, instruments, brushing, BSC 628	
CS 2307	Hard dry 12	Paint, priming, instruments, spraying, BSC 628	
CS 2309	Hard dry 12	Paint, finishing, instruments, high gloss, brushing, olive drab, BSC 298	
DEF 1116	Hard dry 24	Paint, priming, for use under paint, finishing, acid and alkali resisting, brushing, neutral grey	A system of 1 coat primer and 1 coat finish gives strong protection against the fumes from sulphuric acid, and other acids and alkalis
DEF 1116	Hard dry 1	Paint, finishing, acid and alkali resisting, brushing black	
DEF 1116	Hard dry 1	Paint, finishing, acid and alkali resisting, brushing, signal red, BSC 537	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying, (see para 13)	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, finishing, instru- ments, high gloss, stoving, spraying, black BSC 298, Paint, finishing, instru- ments, high gloss, stoving, spraying, olive drab	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub section H1(a)
11	Radio sets and ancillaries (including RAF and Royal Marines)	Cases and panels aluminium (primer)	H1/8010-99-943-6746	
		All surfaces (finishing)	H1/8010-99-943-6748	
12	All radio sets (where stoving facilities not available) (including RAF and Royal Marines)	All surfaces (Pretreatment)	H1/8010-99-942-6081 and H1/8010-99-942-6082 and H1/8010-99-942-6161	XIV
		All surfaces (primer)	H1/8010-99-942-6086	VIII
			H1/8010-99-942-6087	VIII
		All surfaces (finishing)	H1/8010-99-942-6024	VIII
			H1/8010-99-942-6020	VIII
			H1/8010-99-942-6027	VIII
13	Standard/box/or sealed test equipment SD/09843	Pretreatment paint	H1/8010-99-942-6081 H1/8010-99-942-6082 H1/8010-99-942-6161	XIV

TELECOMMUNICATIONS
A 760R E S T R I C T E DELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying (see para 13)	
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, finishing, instruments, high gloss, olive drab, BSC 298	
CS 2626	4 hrs or force dry at 90°C (200°F) for 15 min	Paint, pretreatment (see para 13)	Apply next coat 4-6 hours after application - use as in para 13 unless force dried
CS 2307	Hard dry 12	Paint, priming, instruments, brushing, BSC 628 Paint, priming, instruments, spraying, BSC 628	
CS 2309	12	Paint, finishing, instruments, high gloss, spraying, black	
CS 2309	12	Paint, finishing, instruments, high gloss, brushing, black	
CS 2309	12	Paint, finishing, instruments, high gloss, spraying, olive drab, BSC 298	
CS 2626	4 hrs or force dry at 90°C (200°F) for 15 min	Paint, pretreatment	See para 13 for method of use

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
13 (cont)		Primer	H1/8010-99-943-6746	
		Finishing	H1/8010-99-943-6747	
14	Canvas surfaces and hoods	All surfaces	H1/8010-99-942-6005	V
			H1/8010-99-942-6007	V
			H1/8010-99-942-6060	XIX
			H1/8010-99-942-6062	XIX

R E S T R I C T E D

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 1059	Stove 1/2 hour at 160°C (325°F)	Paint, priming, instruments, red oxide, stoving, spraying	
DEF 1059	Stove 1/2 hour at 160-175°C (325-350°F)	Paint, finishing, instruments, high gloss, stoving, spraying, dark Admiralty grey, BSC 632	
CS 2398	4	Paint, bituminous, emulsion, brushing, olive drab, SCC 15	Normally these materials are dyed to design or colour but where painting is necessary these paints will be used. For re-proofing see Wksp N 251
CS 2398	4	Paint, bituminous, emulsion, brushing, very dark drab, SCC 16	Bituminous emulsion paints must be stored at temperature over 2°C (35°F). One coat should suffice.
CS 2690		Paint, finishing, polyvinyl acetate, emulsion, brushing, olive drab, BSC 298	May be used instead of above type paints on waterproofed canvas. Must be stored at temperature over 2°C (35°F) If polyvinyl acetate emulsion paint is used it will be applied as follows:-
CS 2690		Paint, finishing, polyvinyl acetate, emulsion, brushing, light stone, BSC 361	1 sealing coat, allow to dry 1 hour and then apply 1 normal coat For sealing coats - add an equal volume of water to the paint and stir well before application. For normal coats add 6 pints of water to 5 gallons of paint, stir well.

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
15	Internal surfaces of wave-guides, resonators	Interior	H1/8010-99-943-3454	XVIII
16	Miscellaneous	For cleaning	H1/8010-99-942-7564	XV
		Cleaning and thinning	H1/8010-99-942-6161	XIV
		Cleaning prior to cellulose paints or DEF 1059	H1/8010-99-943-3046	

R E S T R I C T E D

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 32	Hard dry 24	Varnish, special	To prevent corrosion on internal surface, 1 pint cans
BS 245	-	White spirit	
CS 2626	-	Thinners for paint pretreatment	For use with H1/8010-99-942- 6081 and 6082 only, or prior to their applica- tion
TS 286	-	Solvent cleaning, painting equipment for cellulose nitrate finishes	

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table 2 - Repainting of Royal Navy

Note: Protected equipment is that which is installed in offices and enclosed spaces and is not exposed to the weather.

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
1	Radio	All metals clean and etch prime Copper and copper alloys Aluminium and aluminium alloys Steel: cadmium plating to D.T.D. 904 and passivation to D.T.D. 923	H1/8010-99-942-6081 H1/8010-99-942-6082	
2		All metals: Primer	NIV	
3		All metals: Finishing (except items 4 to 10)	NIV	
4		All labels (other than items 5 and 6)	NIV	
5		Danger labels: Red with white filled characters	NIV	

radio equipment (Protected)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
DEF 1408	Air drying paint within 2 hours	Paint, pretreatment primer	For brushing use in the ratio of one part by volume of brushing acid component and two parts by volume of base component. For spraying add one volume of thinners (N butanol: 6810-99-942-6161) to 3 volumes mixed brushing material to produce spraying consistency
DEF 1059	Stoving; 30 min at 175°C (350°F)	Primer for OFF GLOSS finishes	Supplied by Cellon-Docker Ltd Kingston on Thames, Surrey or Red Hand Compositions Ltd, 9 Henrietta Place, W.1. Thinners for items 3 and 4 Cellon-Docker S.T.Z.27
DEF 1059	Stoving; 30 min at 175°C (350°F)	Paint, finishing, OFF GLOSS, light Admiralty grey to D.T.D. 235B and 65D. B.S.C.697 to D.E.F. 1059. Two coats	Supplied as item 2
DEF 1059	Stoving; 30 min at 175°C (350°F)	Paint, finishing, OFF GLOSS, dark grey to D.E.F. 1059. B.S.C. 632. White filled characters	Supplied as item 2
B.S.C. 537		Signal red, stoving	Good commercial quality stoving finish may be used, but should be applied over items 1, 2, and 3 or 1, 2, and 4 wherever possible.

R E S T R I C T E DTELECOMMUNICATIONS
A 760ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Table 2

Item	Equipment	Surface and coat	VAOS No	Sub-section H1(a)
6		Warning labels: Yellow with black filled characters	NIV	
7		Handles and fittings	NIV	
8		Screws, access, heads	NIV	
9		Reflecting surfaces	NIV	
10		Surfaces: Heat or light absorbent	NIV	

R E S T R I C T E D

- (cont)

Spec No	Drying time (hours) or stoving procedure	Description	Remarks
B.S.C.309		Yellow, stoving	As item 5
D.E.F.1059	Stoving; 30 min at 175°C (350°F)	Dark grey	Where not electroplated finish as item 4
B.S.C.221		Brilliant green, stoving	As item 5
D.E.F.1059	Stoving; 30 min at 175°C (350°F)	Paint, finishing, full gloss	Supplied by Cellon- Docker Ltd., or Red Hand Compositions Ltd.
D.E.F.1111	Stoving; 30 min at 125°C (260°F)	Paint, war equipment, matt black	Supplied by Red Hand Compositions Ltd.

HQ/TGR/CIE

Issue 6, Dec 69

END
R E S T R I C T E D

Page 30