

SECTION I

SWITCHES (MANUALLY OPERATED)

RESTRICTED

INSPECTION DEPT.

AMENDMENT RECORD SHEET

Incorporation of an Amendment List in this publication is to be recorded by signing in the appropriate column, and inserting the date of making the amendments

A.L. No.	AMENDED BY	DATE
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14	G. Harper	1-9-55
15	G. Harper	5-9-55
16	G. Harper	5-10-55
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20	G. Harper	14-10-55
21		
22	G. Harper	26-10-55
23	<i>Pauls</i>	NOV 1955
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27	<i>Pauls</i>	NOV 1955

A.L. No.	AMENDED BY	DATE
28	<i>Pauls</i>	NOV 1955
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37	<i>Pauls</i>	DEC 1955
38	38-113	
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44	<i>Ed Hammett</i>	17/
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A.L. 54

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IN MR. WARBURTON'S
POSSESSION.

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* An Amendment Record Continuation Sheet (R A F Form 2096B) will be required when this page is full.
Order it now.

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Stammard

17/4/58

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WARNING

EJECTION SEAT

1. An ejection seat is a potential danger to personnel and aircraft. If the firing mechanism is inadvertently operated while the aircraft is on the ground the seat will be ejected; serious injury (possibly fatal) may be caused to any person in or leaning into the cabin and damage will be done to the aircraft.

2. The following instruction must therefore be obeyed implicitly:—

BEFORE ATTEMPTING TO ENTER THE CABIN OF AN AIRCRAFT FITTED WITH AN EJECTION SEAT REPORT TO THE N.C.O. IMMEDIATELY IN CHARGE OF AIRCRAFT SERVICING (R.A.F.), OR TO THE ORDNANCE SUPERVISORY RATING (R.N.), WHO WILL ENSURE THAT THE SEAT IS SAFE FOR THE PURPOSE REQUIRED.

3. Full instructions for rendering the seat safe are contained in the A.P.4288 series, in A.D.5037, and in the A.D.6038 series.

(A.L.79, Sept. 56)

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NOTE TO READERS

INSPECTION DEPT

The subject matter of this publication may be affected by Admiralty Fleet Orders, Air Ministry Orders, or by "General Orders and Modifications" leaflets in this A.P., in the associated publications listed below, or even in some others. If possible, Amendment Lists are issued to correct this publication accordingly, but it is not always practicable to do so. When an Order or leaflet contradicts any portion of this publication, the Order or leaflet is to be taken as the overriding authority.

The inclusion of references to items of equipment does not constitute authority for demanding the items.

Each leaf, except the original issue of preliminaries, bears the date of issue and the number of the Amendment List with which it was issued. New or amended technical matter on new leaves which are inserted when the publication is amended will be indicated by triangles, positioned in the text thus:— ◀ ———— ▶ to show the extent of amended text, and thus:— ▶ ◀ to show where text has been deleted. When a Section or Chapter is issued in a completely revised form, the triangles will not appear.



LIST OF ASSOCIATED PUBLICATIONS

	A.P.
<i>Electrical manual, general</i>	4343
<i>Electrical manual, generators and batteries (airborne)</i>	4343A
<i>Electrical manual, control and distribution equipment (airborne)</i>	4343B
<i>Electrical manual, rotary consumer equipment (airborne)</i>	4343D
<i>Electrical manual, static consumer equipment (airborne)</i>	4343E
<i>Electrical manual, equipment in foreign aircraft used by the R.N. and R.A.F.</i>	4343F
<i>Electrical manual, ground equipment</i>	4343G
<i>Electrical manual, symbols and unit wiring diagrams</i>	4343H
<i>Electrical manual, M.T. and marine craft equipment</i>	4343M
<i>Electrical manual, servicing equipment</i>	4343S
<i>Electrical manual, armament consumer equipment (airborne)</i>	4343X

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LAYOUT OF A.P.4343C

ELECTRICAL MANUAL— SWITCHES, CABLES, WIRING AND ACCESSORIES (AIRBORNE)

Heavy type indicates the books being issued under this A.P. number; when issued they will be listed in A.P. 113

VOLUME 1		General and technical information
VOLUME 2		Modifications
VOLUME 3,	Part 1	Schedule of spare parts (<i>not published: information included in A.P.1086</i>)
VOLUME 3,	Part 2	<i>Inapplicable</i>
VOLUME 3,	Parts 3 and 4	<i>Application to be decided later</i>
VOLUME 4		Planned servicing schedules
VOLUME 5		<i>Application to be decided later</i>
VOLUME 6		Repair and reconditioning instructions

RESTRICTED

PREFACE

It has become necessary to introduce a new series of Air Publications dealing with electrical equipment, because the existing series cannot be re-arranged satisfactorily to meet current requirements.

Information at present contained in A.P.1095A, B, C, F, G, H and M will be examined and where necessary revised and transferred to the new A.P.4343 series.

Although no new information will go into the old publication, the two series of publications will be complementary until the transfer of information has been completed, and reference must be made to either as required. Should information appearing in the new publications conflict with that already existing in the old publications, A.P. 4343 is to be considered as the overriding authority.

Until the reader has become familiar with the new layout, reference should be made to the List of Associated Publications and to the transfer of Information table which appear at the front of each volume.

It should be noted that the suffix letters which are not listed are reserved for possible future sub-division and expansion of the new series. The division of the publications into volumes and parts is given in the Layout Tree included in each Volume 1.

A.P.4343 contains information of a general nature on equipment which may be common to any volume in the series. Information on electrical installations associated with specific aircraft will continue to be included in the appropriate Aircraft Handbook or will appear as separate Air Diagrams.

TRANSFER OF INFORMATION TABLE

Subject	Existing A.P. 1095 series	New A.P.4343 series
Indicators	1095A, Sect. 1	4343, Sect. 23 and 4343E, Sect. 18
Magnetic relays and solenoids ...	1095A, Sect. 2	4343, Sect. 11 and 4343C, Sect. 3
Wiring systems and cables	1095A, Sect. 3	4343, Sect. 12 and 4343C, Sect. 5
Fuses and fuseboxes	1095A, Sect. 3	4343, Sect. 12 and 4343C, Sect. 5
Switches and switchboxes	1095A, Sect. 7	4343, Sect. 11 and 4343C, Sect. 1
Lighting equipment	1095A, Sect. 8	4343, Sect. 21 and 4343E, Sect. 7
Bomb release circuits	1095B, Sect. 1	4343, Sect. 12 and 4343X, Sect. 1
Bomb carrier wiring and accessories...	1095B, Sect. 1	4343, Sect. 12 and 4343X, Sect. 1
Bomb-release, jettison and selector switches	1095B, Sect. 2	4343, Sect. 11 and 4343X, Sect. 3
Pre-selector units	1095B, Sect. 2	4343X, Sect. 3
E.M. fuzing and release units ...	1095B, Sect. 3	4343X, Sect. 5
Carrier units	1095B, Sect. 3	4343X, Sect. 5
Automatic bomb distributors ...	1095B, Sect. 4	4343X, Sect. 3
6-way bomb control installation ...	1095B, Sect. 5	4343X, Sect. 1
Gun heaters	1095B, Sect. 6	4343X, Sect. 13
Torpedo depth-setting gear	1095B, Sect. 6	4343X, Sect. 20
Photoflash distributor	1095B, Sect. 6	4343X, Sect. 24
Cartridge flare distributor	1095B, Sect. 6	4343X, Sect. 24
Gun-firing buttons and solenoids ...	1095B, Sect. 7	4343, Sect. 11 and 4343X, Sect. 13
Firing units	1095B, Sect. 7	4343X, Sect. 13
Electrical control of aircraft turrets ...	1095B, Sect. 8	4343, Sect. 18 and 4343X, Sect. 11
Batteries, alkaline, airborne	1095C, Sect. 1	4343, Sect. 3 and 4343A, Sect. 12
Motors	1095C, Sect. 2	4343, Sect. 18 and 4343D, Sect. 20
Pumps	1095C, Sect. 4	4343, Sect. 16; 4343D, Sect. 7 and 10
Generators, a.c.... ..	1095C, Sect. 5	4343, Sect. 2 and 4343A, Sect. 1
Generators, d.c.	1095C, Sect. 5	4343, Sect. 2 and 4343A, Sect. 3
Generators, a.c./d.c.	1095C, Sect. 5	4343, Sect. 2 and 4343A, Sect. 5
Voltage and current regulators ...	1095C, Sect. 6	4343, Sect. 6 and 4343B, Sect. 3
Actuators	1095C, Sect. 10	4343, Sect. 17; 4343D; Sect. 14 and 16
Generators and alternators	1095G, Sect. 1	4343, Sect. 2 and 4343G, Sect. 1
Voltage regulators	1095G, Sect. 3	4343, Sect. 6 and 4343G, Sect. 5
Charging boards	1095G, Sect. 4	4343G, Sect. 3 and 4343S, Sect. 14
Rectifiers	1095G, Sect. 4	4343G, Sect. 3 and 4343S, Sect. 14
Flarepaths	1095G, Sect. 5	4343G, Sect. 13
Control and selector switches ...	1095G, Sect. 8	4343G, Sect. 15
Demagnetizing equipment	1095G, Sect. 8	4343G, Sect. 15
Ammeters and voltmeters	1095H, Sect. 1	4343, Sect. 24; 4343A, Sect. 16, and 4343S, Sect. 24
Testmeters	1095H, Sect. 2	4343, Sect. 24 and 4343S, Sect. 24

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TRANSFER OF INFORMATION TABLE—continued

Subject	Existing A.P. 1095 series	New A.P.4343 series
Battery capacity test sets	1095H, Sect. 2	4343S, Sect. 14
Insulation resistance testers	1095H, Sect. 2	4343, Sect. 24 and 4343S, Sect. 24
Bonding tester	1095H, Sect. 2	4343, Sect. 24 and 4343S, Sect. 24
Hydrometers	1095H, Sect. 3	4343, Sect. 4 and 4343S, Sect. 14
Generator test sets	1095H, Sect. 4	4343, Sect. 24 and 4343S, Sect. 13
Switchboards and loading panels	1095H, Sect. 4	4343, Sect. 24 and 4343S, Sect. 13
Generators	1095M, Sect. 1	4343M, Sect. 1
Starter motors	1095M, Sect. 1	4343M, Sect. 14
C.A.V. control boards	1095M, Sect. 2	4343M, Sect. 5
Voltage regulators	1095M, Sect. 2	4343M, Sect. 5
Cut-outs	1095M, Sect. 2	4343M, Sect. 5
Solenoid switches for C.A.V. starters	1095M, Sect. 4	4343M, Sect. 10
Engine screening harness	1095M, Sect. 4	4343M, Sect. 10
68 ft. high speed launch	1095M, Sect. 5	4343M, Sect. 11
Bomb loading scows	1095M, Sect. 5	4343M, Sect. 11

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LIST OF SECTIONS AND PRELIMINARY MATTER

PRELIMINARIES

Amendment record sheet
Note to readers
List of associated publications
Layout of A.P.
Preface
Transfer of information table

SECTIONS

- 1 Switches (manual and mechanically operated)
- 2 (to be issued later)
- 3 Switches (relay, solenoid and automatic), 12/24-volt
- 4 Switches (relay, solenoid and automatic), 112-volt
- 5 Cables, wiring and accessories, 12/24-volt
- 6 Cables, wiring and accessories, 112-volt
- 7 Switches, starting, 12/24-volt
- 8 Switches, starting, 112-volt
- 9 (to be issued later)
- 10 Control switchboxes and switch panels, 12/24-volt
- 11 Control switchboxes and switch panels, 112-volt

Note.—A list of chapters appears at the beginning of each section

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(A.L.90, Dec. 56)

NOTE TO READERS

To eliminate the old-style AP numbers for general electrical publications the reference number of this publication has been changed to the electrical first element and the general information second element numbers of the current coding system. The publication has not been revised to bring the contents up to date.

When revision of information on a given equipment is required, the existing information will be removed from this publication and revised information will be issued under the specific code number for the equipment.

The initial issue of information on new electrical equipment is being made under the specific code number for the equipment.

A list of old and new publication numbers for current Topic 1 and 6 general electrical publications follows this Note to Readers.

This publication is now unclassified and new or revised leaves will not carry a security marking. Holders should delete the RESTRICTED marking as soon as reasonably convenient, and in any event before this publication or any part of it is disposed of as waste.

LIST OF ELECTRICAL PUBLICATIONS - GENERAL

AIR PUBLICATION

Code Number	Formerly			TITLE
	AP	Vol.	Book	
113A-0311-1	4343A	1	-	Generators and batteries
113A-0311-6	4343A	6	-	Generators and batteries
113D-07191-1	4343B	1	1	Voltage regulators
113D-0009-1	4343B	1	2	Control panels, cut-outs and circuit breakers
113D-0010-1	4343B	1	3	Rotary and static transformers and inverters
113D-0011-6	4343B	6		Control and distribution equipment
113D-0012-1	4343C	1	1	Manually and mechanically operated switches
113D-0013-1	4343C	1	2	Relay, solenoid and automatic switches 12/28V
113D-0014-1	4343C	1	3	Cables, starting switches and control switch boxes
113D-0015-1	4343C	1	4	Relay, solenoid and automatic switches 100/250V
113D-0016-6	4343C	6		Switches, cables, wiring and accessories
113E-0535-1	4343D	1	1	Starter motors and starter generators
113E-0479-1	4343D	1	2	Pumps (electric)

LIST OF ELECTRICAL PUBLICATIONS - GENERAL

Code Number	AIR PUBLICATION			TITLE
	AP	Formerly Vol.	Book	
113E-0189-1	4343D	1	3	Linear actuators (electric)
113E-03181-1	4343D	1	4	Motors (electric)
113E-0267-1	4343D	1	5	Rotary actuators (electric)
113E-0535-6	4343D	6	1	Starter motors and starter generators
113E-0479-6	4343D	6	2	Pumps (electric)
113E-0189-6	4343D	6	3	Linear actuators (electric)
113E-03181-6	4343D	6	4	Motors (electric)
113E-0267-6	4343D	6	5	Rotary actuators (electric)
113F-0002-1	4343E	1	1	Solenoid actuators, lighting and braking control equipment
113F-0003-1	4343E	1	2	Heating, refrigerating and engine synchronizing equipment
107E-0002-1	4343E	1	3	Fire warning, extinguishing, safety and rescue equipment
113F-0673-1	4343E	1	4	Indicators and warning devices, de-icing and miscellaneous equipment
120A-0301-1	4343G	1	-	Electrical ground equipment

LIST OF ELECTRICAL PUBLICATIONS - GENERAL

AIR PUBLICATION

Code Number	Formerly			TITLE
	AP	Vol.	Book	
120A-0302-1	4343J	1	-	Electrical ground power indicators, testmeters, testers and precision indicating instruments (RN only)
113D-1856-1	4343P	1	2	Connectors
120A-0001-1	4343Q	1	-	Data book of electrical servicing equipment
120A-1001-1	4343S	1	1	Electrical servicing equipment for general use
120D-0001-1	4343S	1	2	Servicing equipment for M.T. rotary and control equipment
120F-0001-1	4343S	1	3	Servicing equipment for static equipment
120N-0145-1	4343V	1	1	Special-to-type electrical servicing equipment (RAF)
120N-0146-1	4343V	1	2	Special-to-type electrical servicing equipment (RN)
113G-0001-1	4343X	1	1	Armament electrical control equipment (Airborne)
120G-0001-1	4343X	1	2	Armament electrical test equipment

LIST OF SECTIONS AND
PRELIMINARY MATTER

PRELIMINARIES

Amendment Record Sheet
Lethal Warning
Note to Readers
List of Electrical Publications - General
List of Sections
List of Lubricants

SECTIONS

- 1 Switches (manually operated)
- 2 Switches (mechanically operated)

Note:- A list of chapters is given at the beginning of each section.

LIST OF LUBRICANTS

The following is a list of lubricants and associated materials mentioned in the AP 4343 series of publications. To avoid repetition, common user items are identified in the text of the various books by their Joint-Service designations only. Reference numbers are used for items peculiar to the RAF.

Joint-Service designation	Reference No.	N.A.T.O. Code No.
Oil, OC-600	34D/9100536	O-208
Oil, OEP-740	34B/9428567	
Oil, OF-24	34D/9100566	H-544
Oil, OM-13	34D/9100570	O-134
Oil, OM-15	34B/9100572	H-515
Oil, OM-16	34D/9427822	S-756
Oil, OM-33	34D/9423224	H-576
Oil, OM-58	34D/9106165	
Oil, OM-71	34D/9100577	O-138
Oil, OM-170*	34B/9100553	O-115
Oil, OM-270	34A/9100554	O-117
Oil, OMD-110	34D/9100581	O-180
Oil, OX-14	34B/9100590	O-147
Oil, OX-23	34B/9423150	O-158
Oil, OX-38	34B/9424819	O-419
Grease, XG-265	34B/9433481	
Grease, XG-271	34B/9100510	G-382
Grease, XG-275	34B/9100512	G-350
Grease, XG-276	34B/9425139	
Grease, XG-277	34B/9100514	G-359
Grease, XG-278	34B/9105058	G-354
Grease, XG-284	34B/9439321	G-366
Grease, XG-285	34B/9100517	G-355
Grease, XG-290	34B/9105057	
Grease, XG-315	34B/9100519	G-394
Grease, Aeroshell No.15	34B/1429	
Silicone compound XG-250 (Previously M.S.4)	33H/9424829	S-736
Protective, PX-7	34B/9100488	S-743

*To be superseded by OM-270.



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