



Ministry of Defence

RIFLE .22 in. No.8 Mk 1
1005-99-961-9008 (long butt)
1005-99-961-9009 (normal butt)
1005-99-961-9010 (short butt)

PURPOSE AND PLANNING INFORMATION

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SOLDIER SYSTEMS PROGRAM LETHALITY
PROJECT TEAM
KD4Q8

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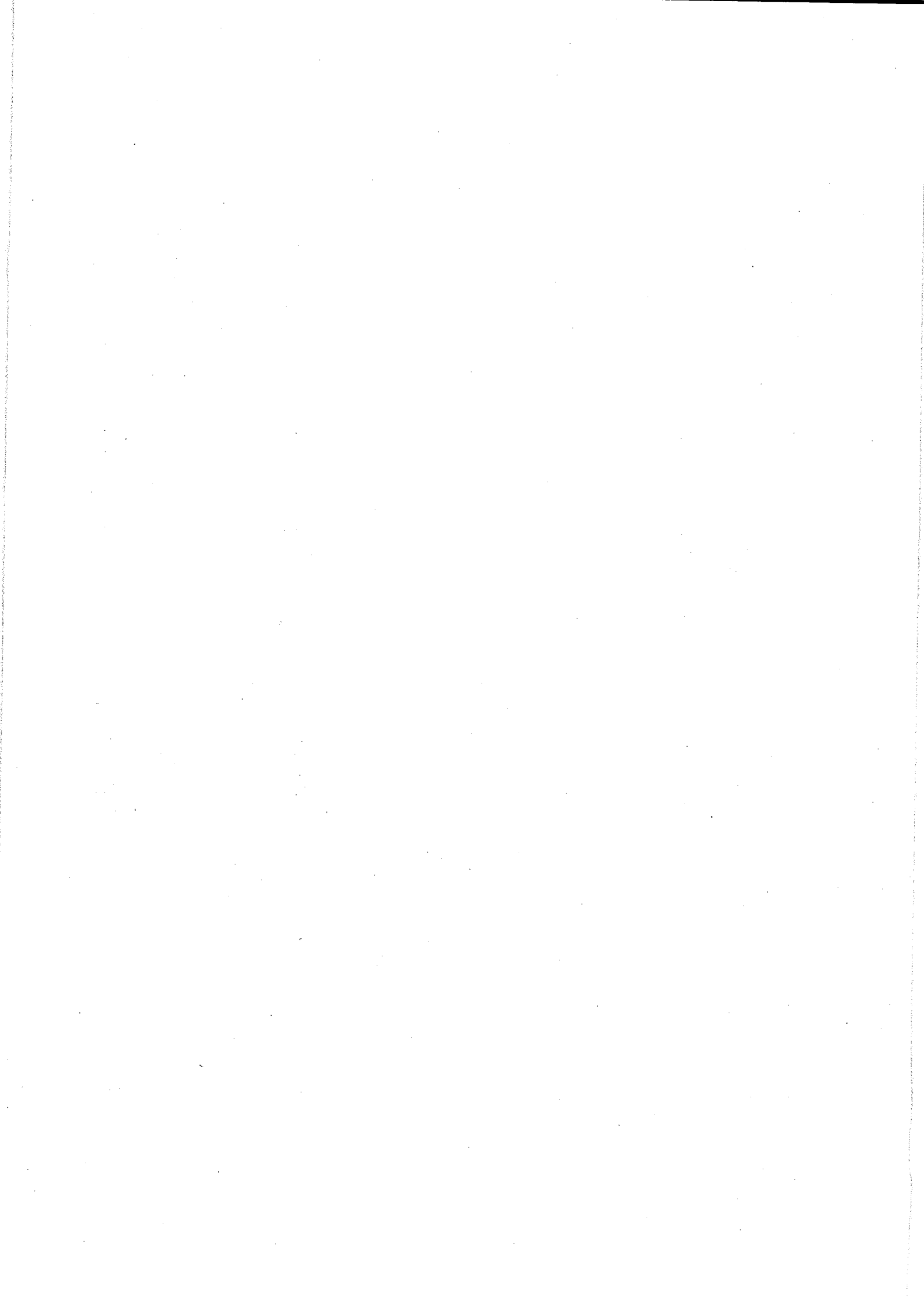


AMENDMENT RECORD

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PREFACE

Sponsor: SSP Lethality
 Project Number: -
 File Ref: -

Publication Authority: SSP Lethality

INTRODUCTION

1 Any comments by service users on this publication should be forwarded through the channels prescribed in Army Equipment Support Publication (AESP) 0100-P-011-013. An AESP Form 10 is provided at the end of this publication; it should be photocopied and used for forwarding comments on this AESP.

2 AESPs are issued under UK MOD authority and where AESPs specify action is to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores, subject to the provisions of Para 3 below.

3 The subject matter of this publication may be affected by Defence Instructions and Notices (DINs), Standard Operating Procedures (SOPs) or by local regulations. When any such instruction, Order or Regulation contradicts any portion of this publication it is to be taken as the overriding authority.

RELATED AND ASSOCIATED PUBLICATIONS

Related publications

4 The Octad for the subject equipment consists of the publications shown below. All references are prefixed with the first eight digits of this publication. The availability of the publications can be checked by reference to the relevant Group Index (see AESP 0100-A-001-013).

Category/Sub-category			Information Level			
			1 User/Operator	2 Unit Maintenance	3 Field Maintenance	4 Base Maintenance
1	0	Purpose and Planning Information	101	101	*	*
	1	Equipment Support Policy Directive	111	111	*	*
2	0	Operating Information	201	201	*	*
	1	Aide Memoiré	*	*	*	*
	2	Training Aids	*	*	*	*
3		Technical Description	201	302	302	302
4	1	Installation Instructions	*	*	*	*
	2	Preparation for Special Environments	*	*	*	*
5	1	Failure Diagnosis	201	522	522	522
	2	Maintenance Instructions	201	522	522	522
	3	Inspection Standards	*	532	532	532
	4	Calibration Procedures	*	*	*	*
6		Maintenance Schedules	*	*	*	*
7	1	Illustrated Parts Catalogues	711	711	711	711
	2	Commercial Parts Lists	*	*	*	*
	3	Complete Equipment Schedule, Production	*	*	*	*
	4	Complete Equipment Schedule, Service Edition (Simple Equipment)	*	*	*	*
	5	Complete Equipment Schedule, Service Edition (Complex Equipment)	*	*	*	*
8	1	Modification Instructions	*	*	*	*
	2	General Instructions, Special Technical Instructions and Servicing Instructions	*	*	*	*
	3	Service Engineered Modification Instructions (RAF only)	*	*	*	*

*Category/sub-category not published.

Associated publications

5 Associated publications are as follows:

<u>Reference</u>	<u>Title</u>
[REDACTED]	[REDACTED]
AESP 1000-A-003-013	Policy and Procedures for Armourers Light Weapons and Workshops
STTE	Scale no 037187 is declared obsolete 2013DIN04-163
[REDACTED]	[REDACTED]

WARNINGS AND CAUTIONS**WARNINGS**

- (1) **RISK OF INJURY OR DEATH. NORMAL SAFETY PRECAUTIONS MUST BE OBSERVED BEFORE OPERATION, INSPECTION OR REPAIR OF THIS WEAPON.**
- (2) **RISK OF EYE INJURY OR BLINDNESS. ALWAYS WEAR SUITABLE EYE PROTECTION WHEN FIRING THE WEAPON. KEEP THE MUZZLE AREA CLEAR WHEN FIRING.**
- (3) **PERSONAL INJURY. OPERATION THIS WEAPON MUST BE CARRIED OUT IN ACCORDANCE WITH [REDACTED]**

CAUTIONS

- (1) **EQUIPMENT DAMAGE. EXCESSIVE FORCE. DO NOT USE EXCESSIVE FORCE WHEN CLEANING THE WEAPON.**
- (2) **EQUIPMENT DAMAGE. INCORRECT CLEANING AGENTS AND CARE PRODUCTS. DO NOT USE ANY METALLIC OBJECTS, PLASTICS (NYLON, ETC.) OR CHEMICAL CLEANING AGENTS TO CLEAN THE WEAPON.**

Misuse of weaponsIntroduction

6 This warning outlines the British Armed Forces policy governing the use or misuse of weapons and ammunition.

Competent person

7 Only those persons authorised in AESP 1000-A-003-013 Chap 1 Para 2 are deemed competent to carry out maintenance beyond level 1, User Maintenance.

- (1) REME Artificer Weapons
- (2) REME Armourer
- (3) RM Armourer
- (4) RAF Eng Tech W and W Mech with appropriate specialist trade qualifications
- (5) Formally qualified DSG staff involved in light weapons repair
- (6) Formally qualified Fleet staff involved in light weapon repair
- (7) Formally qualified staff employed by the Prime Contractor for Logistic Support.

WEAPONS

8 In AESPs the following definitions apply:

9 **Non Service Weapon (NSW).** Relates to all foreign and obsolete British light weapons whether officially issued or otherwise acquired which are not "in service" e.g. 9 mm Sten. A weapon is not officially "in service" unless it is listed in the Establishments Equipment Table (ET).

9.1 **Light weapons.** Includes the following equipments deployed primarily for ground use.

9.1.1 **Small arms.** All personal weapons including rifles, carbines, pistols, submachine guns, shotguns anti-riot guns and associated stores.

9.1.2 **Machine guns.** All types of light, medium and heavy machine guns including their mounts and stores.

9.1.3 **Grenade launchers.** All types of grenade launcher.

9.1.4 **Anti-tank weapons.** Infantry hand held anti-tank weapons.

9.1.5 **Mortars.** All mortars and associated stores.

9.2 Firing or attempting to fire illegally modified service or other weapon is strictly prohibited.

9.3 Firing or attempting to fire locally manufactured weapons, service or foreign weapons, or use of weapons used for display, ceremonial, or trophy purpose in museums, messes, parade grounds, armouries or such like areas is prohibited except when specifically authorised through ESM SSP Lethality Delivery Team.

9.4 Some units and training establishments hold special weapons and ammunition of non-service pattern for familiarisation training, firing training and for firing on fixed mountings forward of troops undergoing training. Authority to hold all NSW can only be given by SSP Lethality Team.

AMMUNITION

10 Tampering with or use of service and commercial ammunition for other than their designed purpose is prohibited.

11 The modification, breakdown or sectioning of live ammunition for experimental, instructional or any other purpose is forbidden. This prohibition includes:

11.1 Unauthorised interchanges of fuses or primers or both.

11.2 Experiments with blank ammunition to alter the charge or introduce any other substance into the cartridge case or into the weapon with the approved cartridge.

11.3 Experiments involving the use of altered propelling or bursting charges with ammunition of any type.

11.4 The use of non-service ammunition.

11.5 Use of foreign ammunition other than that received through normal supply channels or supplied in accordance with NATO Standardisation Agreements.

11.6 Any alteration of the design of ammunition.

11.7 Deviation from any authorised drills for use of ammunition.

11.8 Rendering live ammunition inert for use as museum or instructional items.

ABBREVIATIONS AND SYMBOLS**ABBREVIATIONS**

Abbreviation	Definition
AESP	Army Equipment Support Publication
BLR	Beyond Local Repair
Dia	Diameter
DIN	Defence Instruction and Notice
DSG	Defence Support Group
ET	Equipment Table
Fig	Figure
in.	inch
JSP	Joint Service Publications
lb	Pound
lbf	Pound-foot
Mk	Mark
MOD	Ministry of Defence
NATO	North Atlantic Treaty Organisation
No	Number
NSN	NATO Stock Number
NSW	Non Service Weapon
OSD	Out of Service Date
oz	Ounce
RAF	Royal Air Force
REME	Corps of Royal Electrical and Mechanical Engineers
SOP	Standard Operating Procedure
SSP	Soldier Systems Program
STANAG	Standardisation Agreement
STTE	Special Tools and Test Equipment
UK	United Kingdom

SYMBOLS

12 There are no symbols applicable to this equipment.

PURPOSE AND PLANNING INFORMATION

EQUIPMENT IDENTITY

1 Item names and NATO Stock Numbers (NSN) for the three variants of the Rifle .22 No. 8 Mk1, are detailed in Table 1.

NOTE

In accordance with 2013DIN04-163 0.22 inch No 8 Mk 1 Cadet Rifle – revision of Out Of Service Date (OSD). The only replacement that can be demanded is Serial 2 of Table 1, normal butt. When Serial 1 and 3 are declared Beyond Local Repair BLR they will be replaced by Serial 2 only - normal butt.

TABLE 1 EQUIPMENT IDENTITIES

Serial (1)	Item Name (2)	NATO stock no (3)	Remarks (4)
1	RIFLE .22 IN NO 8 Mk1	1005-99-961-9008	long butt
2	RIFLE .22 IN NO 8 Mk1	1005-99-961-9009	normal butt
3	RIFLE .22 IN NO 8 Mk1	1005-99-961-9010	short butt

ROLE

2 The Rifle, 0.22 in. No 8 Mk 1 (the rifle) was designed for use as a training rifle and for small bore competition shooting.

BRIEF DESCRIPTION

3 The rifle (Fig 1) is a bolt action, single-shot weapon with no magazine, cartridges are hand loaded manually.



Fig 1 Rifle, .22 in., No.8, Mk 1

Weapon firing action and mechanical safeties/common features

4 This hand loaded, bolt action weapon system has an applied safety catch and also a built in mechanical safety mechanism that will not allow the action to be fired off until the bolt is fully locked.

Variations

5 Variations of the weapon system are listed in Table 1.

Ancillaries

6 The standard service sight fitted can be replaced with commercial competition match foresight and back sights.

NOTE

Competition match sights must only be fitted by qualified armourers.

Holsters/Slings/Carry cases

7 The rifle can be fitted with a match shooting sling.

PHYSICAL DATA

8 Dimensions and characteristics of the rifle are detailed in the Table 2.

TABLE 2 PHYSICAL DATA

Serial (1)	Detail (2)	Data (3)
	Dimensions	
1	Length overall (normal butt)	41 in.
2	Length of barrel	23.36 in.
3	Weight	8 lb. 14 oz.
4	Sight radius	27.14 in.
5	Barrel dia (at muzzle)	3/4 in.
6	Barrel dia (at receiver)	7/8 in.
7	Head space	0.046 in. (\pm 0.001 in.)
	Characteristics	
8	Calibre	0.22 in.
9	Number of grooves	6
10	Twist of rifling (1 turn in 16 in.)	Right-hand
11	Trigger pull single pull	3 lbf
12	Trigger pull double pull off	First pull 3-4 lbf Second pull 5-6.5 lbf
13	Principle of operation	Bolt action
14	Mode of fire	Single shot only
15	Trigger function	Single action
16	Locking system	Rotating bolt
17	Feed system	Hand/manual
18	Number of safeties	2
19	Ammunition	0.22 in. rim fire

MAINTENANCE

Level 1: User maintenance

9 Level 1 maintenance is to be carried out in accordance with AESP 1005-L-203-201. User maintenance is restricted to thorough cleaning and examination of parts for wear, breakage or defects and subsequent reporting through the maintenance chain of command. The Universal Weapon Cleaning kit is sufficient to support all cleaning tasks. Armourer assistance may be required for adjustments to zeroing.

Level 2: Unit maintenance

10 Level 2 failure diagnosis, repairs and inspections are to be carried out in accordance with AESPs 1005-L-203-512, 1005-L-203-522 and 1005-L-203-532 respectively. The Special Tools and Test Equipment (STTE) provided and the issued combined armourer's toolkit are sufficient for all Level 2 maintenance tasks.

Level 3: Field maintenance

11 There is no level 3 maintenance for this weapon system.

Level 4: Contractor Logistic Support

12 Contractor Logistic Support is the controlling authority for the issue of replacement serial numbered items, should these items be required.

ENVIRONMENTAL DATA

13 The climatic operating range of the No 8 Rifle is -40 °C to +50 °C and the system is compliant to Def Stan 00-35 climatic operating conditions A1, A2, A3, B1, B2, B3, C0, C1 and C2.

PACKAGING AND TRANSPORT DATA

14 Weapons initially issued to MoD distribution centres utilise commercial grade packaging equivalent to Level J. Each package is marked compliant to Def Con 129 and includes a STANAG 4329 compliant bar code on the packaging label.

15 On initial issue, STTE is issued in a plastic bag containing one complete set. For ease of identification, the bag includes a check list, as when supplied as a 'kit', each sub-item will not be fully labelled with all codification data. However, spares demanded individually are fully labelled with codification data. Calibration certificates are included where appropriate.

MANNING REQUIREMENTS

16 This weapon system requires only one operator and will be integrated into existing support arrangements. No additional manning is required to operate or support the system.