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ZEROING THE SUSAT

TABLE 3 MEAN POINT OF IMPACT

Weapon	Sight	Sight setting	Correct zero position	
			100 metre	25 metre
RWS	SUSAT	200 m	90 mm above POA	22 mm below POA
		100 m	100 mm above POA	25 mm below POA
LSW	SUSAT	300 m	80 mm above POA	20 mm below POA
		100 m	100 mm above POA	25 mm below POA

Fig 2 Zeroing the SUSAT for elevation

Fig 3 Zeroing the SUSAT for elevation

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SUSAT Safety Precautions

The TRILUX light source used in the SUSAT sight contains Tritium gas. In the event of a breakage the following precautions must be taken:

1. The escaping gas is not to be inhaled.
2. Cigarettes are to be extinguished immediately.
3. Broken parts are not to be handled with bare hands.
4. If the breakage occurs indoors, doors and windows are to be opened to allow the gas to clear and any gas or flame heating system is to be turned off.
5. All breakages are to be reported to the Medical Officer and the unit Armourer as soon as possible.

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L86 A1 LIGHT SUPPORT WEAPON WITH SUSAT



The LSW is the long range version of the 5.56 mm L98 a1 cadet GP rifle. It can produce a high volume of effective fire at longer ranges for immediate and close support of the section. The LSW can only remain effective if it is maintained carefully and thoroughly. Care of the sight is essential. Any member of the section must be able to take over the LSW from the gunner.

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THE CHARACTERISTICS OF THE LSW

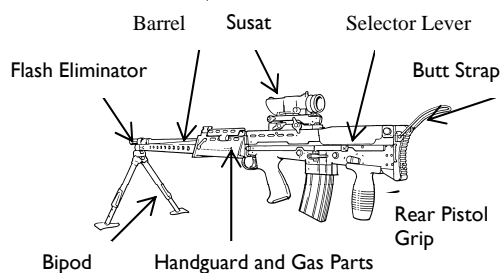
- a. It is a 5.56 mm magazine fed, Light Support Weapon capable of firing single rounds or bursts and providing:
 - (1) Quick, accurate fire at short range opportunity targets in single shots or bursts.
 - (2) A high rate of accurate rapid fire at ranges up to 800 metres in single shots.
- b. It has a bipod which provides a stable support when firing from the prone position or a fire trench. With the bipod folded, the LSW can be fired in the GP rifle mode from all the basic firing positions.

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- c. It is fitted with an extremely accurate optical sight SUSAT which in itself can be used as an effective surveillance aid. It can be fitted with an Iron Sight as a temporary measure, should the SUSAT be damaged.
- d. The magazine can hold 30 rounds and is common to both the LSW and the GP Rifle.
- e. The parts (less the Gas System) which can be removed are interchangeable with the GP Rifle.

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L86 A1 LIGHT SUPPORT WEAPON WITH SUSAT



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SUSAT L12a1

SIGHT UNIT SMALL ARMS TRILUX (SUSAT)

GENERAL

1. The SUSAT forms the primary sighting system for the Rifle and LSW.
2. This optical sight exceeds the low light level capability of the users and enables them to engage targets at longer ranges than is possible with the iron sight.
3. The amount of improvement is dependent upon the light falling on the target and the target/background contrast.
4. The amount of improvement is dependent upon the light falling on the target and the target/background contrast.
5. By the SUSAT assists in the acquisition and engagement of targets with low background contrast, at the effective range of the weapon.

EQUIPMENT IDENTIFICATION

6. The identity and NATO Stock Number (NSN) of the sight are shown in Table 1.

TABLE 1 TITLE AND NSN	
Title	NSN
Sight Unit Small Arms Trilux (SUSAT) L12a1	1240-99-987-0947

PHYSICAL DATA

7. The physical data for this sight is detailed in Table 2.

TABLE 2 SIGHT CHARACTERISTICS	
Characteristic	Date
Type	Optical with illuminated pointer
Magnification	x4
Range setting	200 to 800 metres in 100 m intervals
Field of view	3.1° at 100 m

Fig 1 SUSAT and mount