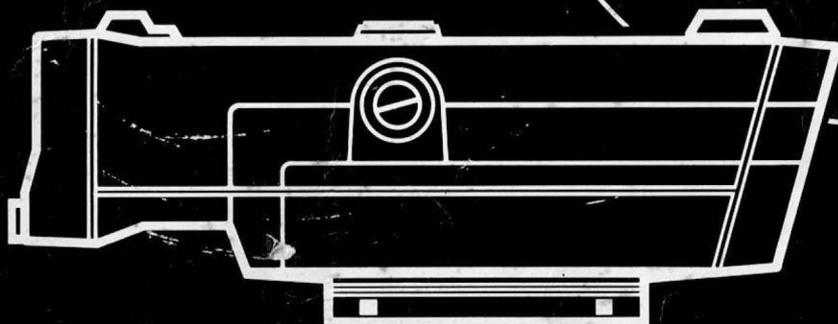


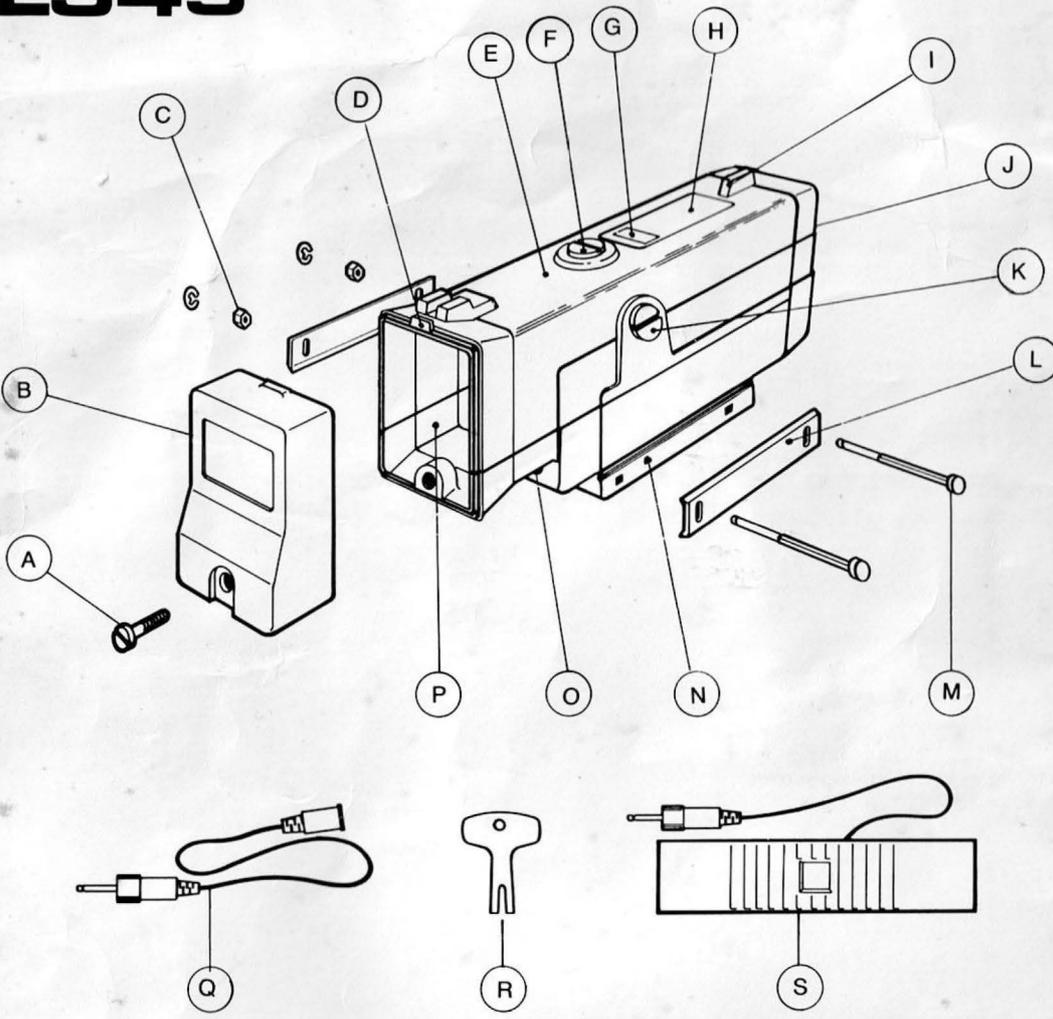
LASERSIGHT



LS45

LASER AIMING SYSTEM

LASERSIGHT LS45



- | | | |
|-------------------------|-----------------------|------------------------|
| A. BATTERY COVER SCREW | G. 'ON' INDICATOR | N. MOUNTING BASE |
| B. BATTERY COVER | H. CAUTION LABEL | O. SWITCH SOCKET |
| C. MOUNTING NUTS | I. BATTLE SIGHTS | P. BATTERY COMPARTMENT |
| D. RETAINING LUG | J. LASER APERTURE | Q. EXTENSION LEAD |
| E. SEALED CASE | K. WINDAGE ADJUSTMENT | R. COMBINATION TOOL |
| F. ELEVATION ADJUSTMENT | L. MOUNTING PLATES | S. SWITCH & CABLE |
| | M. MOUNTING SCREWS | |

IMATRONIC LS45

TECHNICAL SPECIFICATION

LASER	OUTPUT	LESS THAN 1MW
	WAVELENGTH	632.8 NANOMETER
	DOT SIZE	3" AT 100 YDS
	RANGE	500 YDS AT NIGHT
ELECTRICAL	BATTERIES	2x STANDARD 9V (ALKALINE)
	LIFE	45 MINS CONTINUOUS
PHYSICAL	WEIGHT	LESS THAN 12OZ (INC. BATTERIES)
	LENGTH	7 1/2"
	WIDTH	1 3/8"
	HEIGHT	2"
	FIXING	UNIVERSAL DOVETAIL FIXING
	ADJUSTMENT	HORIZONTAL + VERTICAL
ENVIRONMENTAL	TEMP	-10° TO +50°C
	SHOCK	25G for 10mS

Parts Supplied

- 1 Imatronic LS45 complete
- 1 Switch pad complete with lead and plug
- 2 Mounting plates
- 2 Mounting screws
- 2 Mounting nuts
- 2 Circlips

INTRODUCTION

You are now the owner of a precision electronic aiming system. This Imatronic booklet is provided to help you to get the best results from your LS45.

- Remember that the heart of the system is a precision laser tube that emits a high intensity beam of light. Whilst this is considered inherently safe, your attention is directed to the caution label (H) which says – CAUTION. LASER RADIATION. DO NOT STARE INTO BEAM.

In practice, this means remembering not to activate the Imatronic LS45 when it is pointing at or near peoples faces.

ASSEMBLY

The LS45 is shipped with the mounting plates separate. These are fitted using the screws (M) and nuts (C). Note that the screws may be inserted from either side.

After the nuts have been screwed on a short distance the retaining circlips are fitted to the end of the screws, to prevent the nuts being accidentally lost.

COMBINATION TOOL

This is a three in one tool for:

- Screwing & unscrewing the battery cover screw.
- Adjusting the windage and elevation screws.
- Screwing & unscrewing the mounting nuts.

BATTERIES

General

The Imatronic LS45 will provide over 1100 four second bursts from one set of batteries, or approximately one hours continuous running.

The system is designed to run with two 9 volt PP3 or equivalent alkaline batteries. Best results have been obtained using UCAR or Energizer batteries, although other types have proved acceptable.

Note: Zinc carbon or nickel cadmium batteries can be used, but with a greatly reduced running time (75-100 four second bursts). In view of this these types of batteries should only be used when alkaline are unobtainable.

Fitting Batteries

Unscrew the battery cover screw (A) and lift the battery cover (B) outwards and upwards over the retaining lug (D). Insert two batteries with the smaller positive (+) terminal to the left. Replace the cover and tighten screw.

Note: If batteries are inserted incorrectly, the terminal will not make contact. In this case, remove and replace the right way.

SWITCH PAD

General

The switch is fitted with a flexible strap with Velcro fittings (S) that allows it to be fitted to the most convenient part of the weapon for left or right handed operation. When fitted to the stock or pistol grip it can be positioned to be activated either with the thumb or fingers.

When fitted to the fore end of a rifle or shotgun, thumb activation seems most natural. The cable can be taped to the weapon to ensure it is not snagged in use.

Extension Lead

In certain circumstances it may be necessary to mount the Imatronic LS45 some distance from the best switch position. In this case an extension lead (Q) can be fitted between the switch and the sight and is available from your dealer.

Fitting The Switch

The jack plug on the switch cable is fitted to the socket (O) at the rear of the mounting base.

Note: As the plug is inserted the laser will be momentarily activated. Ensure that the sight is pointing at the ground during the operation.

MOUNTING

General

The universal mounting has been designed to fit most standard dovetail bases used to mount telescopic sights. The unique design will accommodate any width from the small 1/2" (12mm) dovetails fitted to rimfire weapons, up to the 7/8" (22mm) bases used to mount the larger telescopes.

This feature allows great flexibility and some of the options are detailed below, however, it must be stressed that the mounting position is principally one of personal choice and depends on the type of weapon and intended use.

Pistol and Revolver Mounting

The Imatronic LS45 has been designed to be small and light enough to fit on most standard length pistols and revolvers.

Your dealer will be able to supply a dovetail base for the majority of the popular handguns which can be fitted without gunsmithing and your Imatronic LS45 will then fit directly to this base.

In this case the switch pad should be fitted to the butt behind the trigger for activation by the middle finger of the shooting hand.

Rifles Carbines and Automatic Weapons

In this case there are two mounting options. The Imatronic LS45 can either be mounted on the top rear of the weapon, where a telescopic sight would normally be fitted, or alternatively under the barrel ahead of the fore end.

To mount in place of a telescopic sight requires the purchase of the particular base system applicable to that weapon and then fitting the LS45 as described above.

However, this can be limiting and the recommendation in this case is to mount the Tracer under the barrel with the normal daylight sights fitted on the conventional sight line. This gives greater flexibility and the ability to use optical sights to enhance the performance of the Laser Aiming System.

All that is required to achieve this is a barrel clamp of the correct diameter that terminates in a standard dovetail.

Shotguns/Riot Guns

The Imatronic LS45 is most suitable for use with single barrel self loading or pump action shotguns. In this case, the preferred position is under the barrel at the front of the weapon, and again all that is required is a barrel clamp that terminates in a standard dovetail.

Bows and Crossbows

The Laser Aiming System is equally relevant to bows and crossbows, bearing in mind that the ballistic problems are greater in this field. However most crossbows have, as standard, a sight base that will accept the Imatronic LS45 and have built in range compensation.

For bows, Imatronic has developed a mount that will accept the LS45 and can be adjusted to specific ranges according to the performance of any particular bow.

BATTLE SIGHTS

The LS45 is fitted with a set of battle sights. These are designed to assist in lining up in instinctive shooting and are particularly useful with a pistol or revolver, where the sight line can be lowered without problems.

They are intended to be an aid to identifying the spot rather than a means to accurate shooting. In this context it must be borne in mind that the spot can be moved independantly of the battle sights and if it is necessary to have both accurately aligned then the base mount must be adjusted to bring the battle sights into line before the zeroing procedure in paragraph 7 is undertaken.

ZEROING

General

The zeroing procedure must be taken to ensure that the Laser spot coincides with the point of impact at a preselected range. Bear in mind that at shorter or longer distances, the point of impact will be above or below the spot by an amount that depends on the range and ballistics of the ammunition.

Note: By pulling the socket out approximately $\frac{1}{8}$ " (3mm), the LS45 will remain on continuously, which may be of assistance during the zeroing process.

Vice or Firing Bench

Secure the weapon using the vice or firing bench and align with the target at the chosen range.

Fire a three shot group and determine the mean point of impact.

Using the windage screw (K) for horizontal adjustment and the elevation screw (F) for vertical adjustment, move the Laser spot to the mean point of impact.

Realign the weapon so that the laser spot is on the bullseye and fire another three round group.

When this group hits the bullseye at the point where the laser dot is, the sight is zeroed.

Field Zeroing

This operation ideally requires two people, as detailed below.

The firer takes up a prone supported firing position and fires a three round group using conventional sights.

The firer then maintains exactly the same point of aim while his assistant adjusts the Laser spot onto the mean point of impact as described in the previous section.

The firer now brings the laser spot to the centre of the target and fires another three round group. If the mean point of impact is where the laser spot was aimed, then the weapon is zeroed.

Should further adjustment be necessary repeat the above two paragraphs until zeroing is complete.

CARE OF IMATRONIC LS45

General

The LS45 is a fully weatherproof and ruggedised unit, however do remember that this is a precision electronic device which will give years of service if treated properly.

DON'T : Drop or knock the unit unnecessarily
Immerse in water or other fluids
Attempt to open the case – there are high voltages inside.

DO : Store in a warm dry place
Remove the batteries prior to storage
Clean the front lens from time to time using cotton buds or similar
Run the unit at least every three months to prevent deterioration of the laser tube.

The outer case should be cleaned and dried after use, however apart from that no other servicing is necessary and there are no user serviceable parts in the unit.

USE OF LASER AIMING SYSTEM

General

The Imatronic LS45 like all similar laser systems is for use in low light conditions. Good results can be achieved indoors even with bright ambient lighting, or outside from dusk through to dawn. Some applications are discussed below.

Training

When used in conjunction with an indoor range, the LS45 is an invaluable aid to improving shooting technique. Deficiencies of grip or bad trigger pull habits show up at once. This leads to accurate fault diagnosis and rapid improvement in scores.

Additionally more advanced techniques of snap shooting, and shooting from the hip can be perfected with the LS45 leading to high levels of confidence and accuracy.

Hunting

The LS45 brings a different dimension to hunting in low light conditions, particularly when used in conjunction with a telescopic sight. Under these circumstances provided the target can be identified a hit is guaranteed in circumstances where conventional sights are difficult or impossible to use.

Self-Protection

In the field of self-protection research has shown two powerful advantages of using a laser aiming system. Firstly, it gives the user a high level of confidence in an extremely stressful situation, and, secondly, has a powerful intimidating effect on the aggressor who has visible evidence that a weapon is trained on him.

Because of this, use of the LS45 may actually prevent the necessity for firing, thereby avoiding the risks attached to the discharge of weapons.

Law Enforcement and Security Agencies

Since the majority of crime and covert actions take place at night, the LS45 is virtually a necessity for Law Enforcement and Security Agencies.

For guard duty, SWAT Teams, kidnap or hostage situations, in ambush or on patrol, the laser sight provides that vital edge.

WARRANTY

If your Imatronic LS45 becomes defective due to faulty materials or workmanship within twelve months from the date of purchase, we guarantee to replace all defective parts, free of charge, or at our discretion replace the unit free of charge provided that:

- The product is returned postpaid to the address overleaf.
- The warranty registration card has been sent at the time of purchase.
- The product has not been misused or carelessly handled.
- Repairs have not been attempted by unauthorised persons.

Note: Broken laser tubes are specifically excluded from this warranty.

SERVICE AND REPAIR

For service and repair please return your Tracer LS45 to the address below postpaid. Our policy is to dismantle all units and repair or replace all defective parts.

If for any reason the unit is not covered by the guarantee, then a charge will be made for the work done. It is understood that we will proceed with the repair unless you specifically ask for an estimate of costs following our inspection.

For service please return to:

DAYTIME LASER SIGHT/TARGETS

LASER DEVICES INC.

409-373-0701

~~1-800-444-7013~~

2 HAMMS CT MONTEREY CA.

DISTRIBUTOR:

CAUTION

CLASS II LASER PRODUCT



LASER RADIATION -
DO NOT STARE INTO BEAM

Wavelength : 632.8 nm
Output power : < 0.9 mW