WRK Installed Recoil Kit User Guide

Remington 870

Introduction

The purpose of the Remington 870 installed recoil kit is to familiarize you with the weapon and to use it as a training weapon that is both realistic and safe. No live ammunition can be loaded into or fired from the weapon when the laser is installed. When the weapon is fired with the laser installed an infrared (non-visible) laser at the front of the barrel is fired, allowing interaction with the MILO Range simulator.

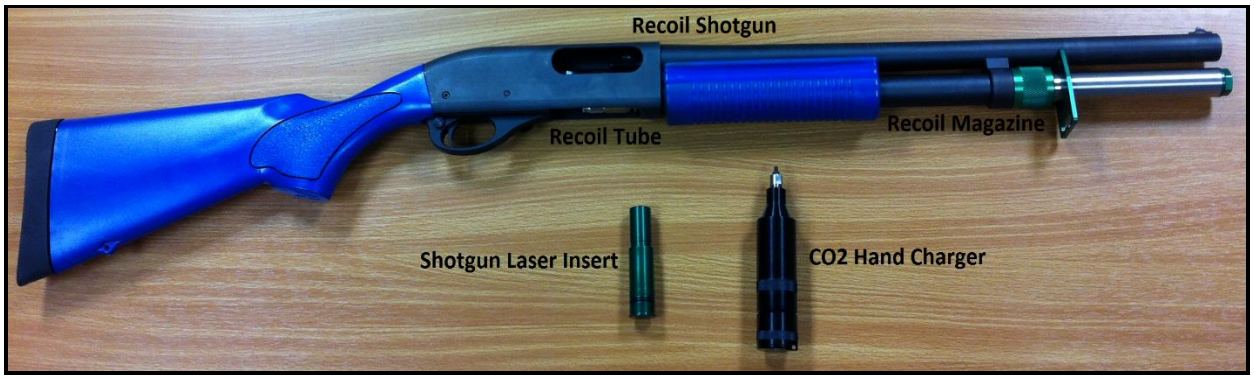
This simulation shotgun should never be placed into live service or used with live ammunition.

ALL FIREARMS SAFETY RULES AND GUIDELINES SHOULD BE FOLLOWED AT ALL TIMES

User Guide Contents

Parts & Components

There are several parts of an original shotgun weapon used in addition to the recoil kit components in order for proper operation. Please note that this recoil kit is permanently installed in this weapon and should not be removed or modified in any way by the user.



The following original weapon components are used:

- Remington 870 Shotgun (minus the magazine tube).

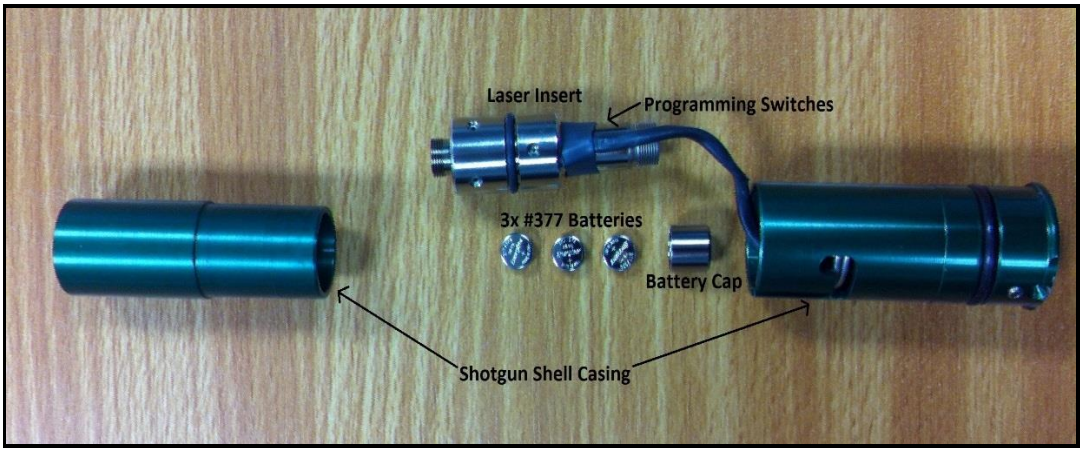
The following components are provided as part of the recoil kit:

- Recoil Shotgun: Modified Remington 870 shotgun
- Recoil Tube: Connects recoil magazine to butt stock to allow recoil effect.
- Recoil Magazine: Holds CO2 liquid for recoil effect and allows refill.
- Shotgun Laser Insert: Installed in the breach of the barrel to provide indication of shots fired on a MILO Range simulator. Note the laser is infrared and is not normally visible. The laser is eye safe, but should never be pointed or fired at another person. This laser can be operated without the CO2 recoil effect and also in regular 12 gauge shotguns.
- CO2 Hand Charger: Used to charge the recoil magazine using a 12 gram CO2 disposable cartridge inserted into the hand charger.
- Spare Parts & Tools:
  - Trigger Lock
  - Barrel Plug
  - Multi-Purpose Tool

Laser Information

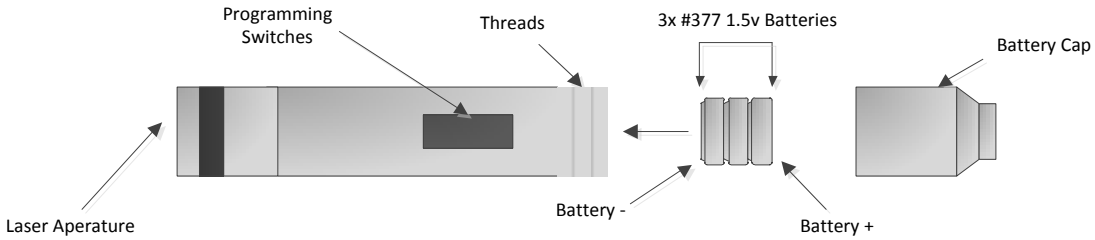
An infrared (IR) laser module is provided with each recoil kit. The IR laser emits a pulse of light each time the weapon is fired. The pulse is not visible to the human eye. The laser pulse is detected by the MILO Range simulator and is used to indicate the shot location.

Remington 870 requires a specially design Shotgun Laser Insert



Laser Batteries

To power the laser three #377 batteries are used. A set of batteries should last 100,000 shots or six months, whichever occurs first. The batteries should be installed with the negative (-) side facing into the laser, as shown below. The diagram depicts just the laser, removed from the shotgun shell casing.



INVISIBLE LASER RADITAION

AVOID DIRECT EYE EXPOSURE

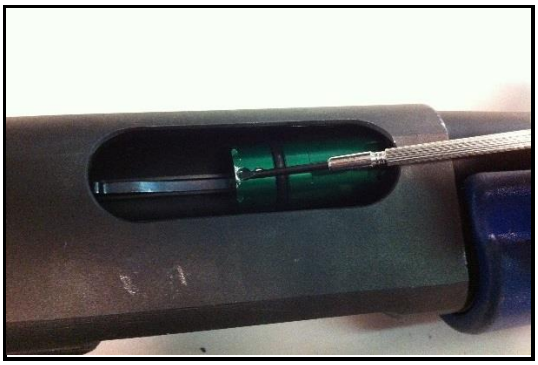
CLASS 3R LASER PRODUCT

Laser Installation

1) Verify that you have three batteries properly installed in the laser.
2) Hold the shotgun with the barrel pointing at the ground.
3) Rack the shotgun back to allow the ejection port to be open.
4) Insert the laser into the breach of the barrel, laser aperture end first.
5) Push the shotgun laser insert all the way into the breach of the barrel until it is snug just as a regular round would be. While doing this make sure that the back end of the shotgun laser insert with the lip removed is on the side where the round extractor is. This will ensure that the laser will not be extracted from the weapon every time you use the pump-action.

Laser Removal

1) Hold the shotgun with the barrel pointing at the ground.
2) Utilizing a tool with a pointed tip (small flathead screwdriver, pick, etc.), insert the tip into the small notch in the back of the shotgun laser insert.
3) Slowly push the shotgun laser insert backwards until it is clear of the breach.



CO2 Charging

CO2 Cartridge Insertion

1. Insert the bottom of the CO2 cartridge into the bottom half of the CO2 charging handle.
2. Screw the bottom half of the charger back onto the top half until you hear the seal on the canister break and so that there is not gas escaping.

Shotgun CO2 Refilling

1. Insert the top end of the hand charger into the top port on the recoil magazine.
2. Press down all the way and hold for 15-20 seconds.

Maintenance

Every 5,000 shots or as needed, you should perform the following maintenance on the recoil kit:

Lubrication of weapon

If your weapon normally requires lubrication on slide rails or elsewhere be sure to apply it.

Lubrication of magazine port

Place a small amount of grease in the fill port of the magazine.

Troubleshooting

Air leak on fill port of magazine tube

An air leak from the top port of the recoil magazine tube is an indication that the magazine itself has a loose coupler or a worn gasket. Tighten the coupler with the provided tool and if the leak persists, follow the repair guide for magazine gasket replacement. If the magazine continues to leak afterwards, contact MILO Range Customer Service.

Air leak other than fill port of magazine tube

Contact MILO Range Customer Service

Repair Guide

Recoil Magazine Tube Fill Port Gasket

1. Hold the shotgun with the end of the barrel facing upwards and remove the coupler from the top of the magazine using the multi-purpose tool (ensure that the tube is clear of any gas build-up).

2. Pull the black gasket out of the magazine and discard it. Do not lose the ball bearing.
3. Verify that the ball bearing is still in the magazine tube.

4. Place a new gasket into the magazine and secure it firmly in place. Make sure that it is seated fully in the recessed area, and coat it with the provided Teflon lubrication.
5. Secure the coupler back onto the magazine.
6. Grease the opening at the top of the magazine.