

The key to getting flawless performance from your firearms starts with the proper care and cleaning. With solid brass components, Otis is hands down the leader in the firearm cleaning industry.

The *Otis Industry Guide to the Proper Care and Cleaning of Firearms* covers the correct methods for Breech-to-Muzzle® cleaning of rifles, pistols, shotguns, airguns, and in-line muzzleloaders. The techniques described are in use today with the U.S. Armed Forces, Law Enforcement professionals, and the world's best hunters & marksmen.

The Breech-to-Muzzle® cleaning method will make you more accurate with each and every shot.

Breech-to-Muzzle®...The Most Advanced Gun Care Systems in the World Today!



Otis Technology, PO Box 582, Lyons Falls, NY 13368  
1-800-OTISGUN \* [www.otistec.com](http://www.otistec.com)

PK-IS-211-IWCK/REV 1-11

THE MOST ADVANCED GUN CARE SYSTEMS IN THE WORLD!

# OTIS

OTIS TECHNOLOGY

## IWCK Improved Weapons Cleaning Kit

NSN# 1005-01-562-7393

**Military Issue Cleaning  
System for 5.56MM, 7.62MM,  
9MM & .45 Caliber**

This military issue cleaning system cleans and maintains the C7, M16, M249 SAW, M4, AK-47, M1, M14, M24, M240, M40, M9, 1911, and all variants of the 5.56MM, 7.62MM, 9MM, and .45 Caliber. Flexible cleaning rods and swabs quickly clean the receiver, chamber, neck and bore; obstruction removers knock out bore obstructions and stuck cases. Special scraper and pick for the bolt face, slide and locking lugs, all purpose brushes and comprehensive instruction booklet maintain flawless performance in mission critical situations. ALICE and MOLLE belt clips & complete optics cleaning components included.

# OPTICS CLEANING INSTRUCTIONS

Optional Optics Cleaning System

Item: 240

For extremely dirty lenses wash with soap and water, and dry with a cloth. This will reduce the chance of scratching your lens.



For dust only, brush lenses gently with the Mohair lens brush.



For normal cleaning apply a sufficient amount of lens cleaning solution to your lenses.



Wipe the lenses thoroughly with the lens cleaning papers. This will remove fingerprints and water spots.



Use the cotton swabs to get the hard to reach areas of your lenses. Dry with the micro-fiber lens cloth.

# BLACK SCRAPER INSTRUCTIONS

Optional Black Scraper Set

Item: 932-5



Components in the Brass Scraper set.



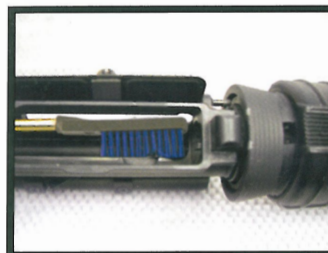
Handy Pin Punch for your M4/M16.



Scraper can be used to remove carbon and other deposits.



The Pick can be used to get into those hard to reach places.

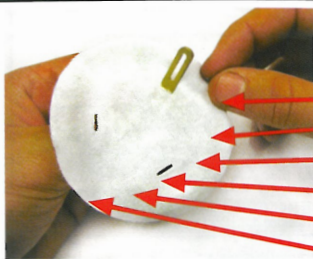


The receiver brush can be used to clean that hard to reach top slide.



The short brush can be used to lubricate the components.

## Using a 3" Patch to make a swab for 7.62mm, 9mm & .45 Cal.



For .30-.50 Cal. Insert the .30 Cal. tip into the inner hole.

Pinch here for .30 Cal.

Pinch here for .35 Cal.

Pinch here for .38 Cal.

Pinch here for .40 Cal.

Pinch here for .45 Cal.

Pinch here for .50 Cal.



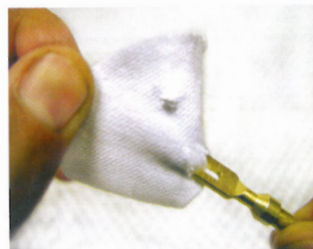
Attach the slotted brass tip onto the end of the Memory Flex cleaning rod. **Note the shotgun tip has an internal thread; it goes over the end of the cable.**

Insert the brass tip through a slot in the patch. **To make a .22-.27 Cal. use an outer hole. To make a .30-.50 cal. and all shotguns use an inner hole.**

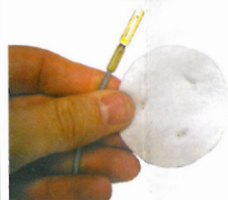
Take a pinch on the patch and slide it through the slot in the tip.

Pull tightly on the tip of the patch.

Now tighten the knot by tugging on the top of the patch. You have just created a swab that will give you 360 degree coverage on your rifle barrel.



## Using a 2" Patch to make a swab for your 5.56mm



Attach the slotted brass tip onto the end of the Memory Flex cleaning rod.

Insert the brass tip through the outer slot in the patch. **This makes a swab for your 5.56mm Rifle.**

Take a pinch on the patch and slide it through the slot in the tip.

**\*\* Note the closer to the brass tip you pinch the smaller the swab you will create. The farther away you pinch, the bigger swab you will create.**

Pull tightly on the tip of the patch.

Now tighten the knot by tugging on the top of the patch. You have just created a swab that will give you 360 degree coverage in your rifle barrel.

## Using Square Patches



1.) To make a swab for 7.62mm punch a hole in the center of the 2" patch, the insert the slotted tip. (For the 5.56mm use a 1" patch)

2.) Take the corner of the patch and insert it through the slotted tip and pull tight!

3.) You have just created a swab that will give you 360 degree coverage in your rifle barrel.

# IWCK Improved Weapons Cleaning Kit Components IWCK Improved Weapons Cleaning Kit Component List



DESCRIPTION	ITEM#	NSN
1. Pad Printed ULT Case w/ MOLLE	IP-640-PPIWCK	PENDING
2. Alice Clips	RW-930	PENDING
*3. Cotton Swabs	IP-240-B	6515-01-234-6838
4. Lens Cleaner .5oz.	RW-444	1005-01-523-9988
5. Mohair Lens Brush	RW-3762	1005-01-445-6798
6. Otis Lens Cloth	RW-423	PENDING
7. NATO Adapter	IP-316-5	1005-01-449-9674
8. .22 Caliber Obstruction Remover/T-handle Base (2)	IP-122-5	1005-01-449-9672
9. .22 Caliber Slotted Tip	IP-202-5	1005-01-449-9315
10. .30 Caliber Slotted Tip	IP-203-5	1005-01-449-9254
11. Blackened Brass Scraper	IP-206-5	1005-01-452-6373
12. Straight Locking Lug Pick	IP-100-39-5	1005-01-449-9943
13. Black Locking Lug Scraper	IP-100-37-5	PENDING
14. 5.56MM Bore Brush	325-BBB-2-832RX	1005-01-449-8980
15. 7.62MM Bore Brush	330-BBB-2-832RX	1005-01-449-8999
16. 9MM Bore Brush	338-BBB-2-832RX	1005-01-449-9159
17. .45 Caliber Brush	345-BBB-2-832R	1005-01-449-9282
18. 5.56MM Chamber Brush	IP-367-TP	1005-01-544-7698
19. 8" Flexible Cable with .30 Caliber Slotted Tip	IP-C-8-30S-5	PENDING
20. Curved Locking Lug Pick	IP-100-39-5CRV	1005-01-581-8143
21. T-handle Bar	IP-100-01-5	1005-01-581-8146
22. 2" Cleaning Patches	IP-918-10	1005-01-449-9257
23. Panopoly Cleaning Patches	IP-970-10	1005-01-445-6728
24. Multi-Tool	RW-640-MP600	5110-01-394-6252
25. Otis Shoot Thru Dust Cap	IP-903	5340-00-880-7666
**26. Empty Refillable Bottle	IP-1/2BOTCAP	1005-01-487-0045
27. 30" Flexible Cable (2)	IP-C-30-5	1005-01-449-8934
28. M16 Solid Rod Obstruction Remover w/ T-handle	IP-14-2C B	PENDING
29. Blue A/P Receiver Brush	IP-316-BLU	1005-01-578-9925
30. Dust Brush	RW-3770	PENDING
31. Pipe Cleaners	RW-8576397	9920-00-292-9946

**\*ATTENTION: "DO NOT use the cotton swabs for weapon cleaning because they will leave fibers and debris in critical areas and orifices such as gas ports. The cotton swabs are intended for exterior optics lens cleaning only."**

**\*\*SOLVENT IS NOT INCLUDED IN THIS CLEANING SYSTEM. Please have the "Empty Refillable Bottle" filled at your Armory or Unit Supplier.**

# PISTOL CLEANING INSTRUCTIONS

## Barrel Cleaning Procedure

Assemble the cleaning rod. Slotted tip on one end, and the obstruction remover on the other end. Open the action – make positively sure that the weapon is unloaded and the magazine is removed or empty.

The chamber is more important than the bore. The cleanliness of the shoulder will determine whether a case will insert & extract properly.

Follow these simple instructions and you will have flawless performance of your pistol.

(1) Insert the rod into the chamber and out through the muzzle. Put a few drops of solvent on the front of the swab. Turn the rod and swab to clean the receiver. Turn the rod and pull the patch into the chamber. Continue turning about 4 revolutions. This will clean the shoulder of the chamber. This insures easy insertion and extraction of the shells.

(2) Now pull the residue out of the bore in the direction of the bullet. A new fresh surface of the swab is used each time. If you have dirt or sand in the barrel, the swab will absorb it. If used a second time, the dirty swab could scratch the chamber and bore. A tight swab is desirable to clean the corners of the rifling.

## Bore Brush

(3/4) A new pistol can be cleaned and maintained with only a tight patch if cleaning is done immediately after using the pistol before it cools down. Use the nylon brush for general cleaning and loosening the powder residue in the chamber and bore. The bronze brush is very aggressive and should be used only when the bore is extremely fouled. Pull a bore brush into the chamber. Twist the brush in a clockwise direction to clean the chamber. This turning will loosen the brass filings and residue that accumulate at the shoulder. If the chamber shoulder accumulates lead or other fouling, the round will not fully seat in the chamber and will result in failure to lock. Pull the brush out of the barrel in the natural direction of the bullet. A brush only loosens lead and residue. A tight patch is necessary to mop it from the bore. Run a swab with solvent, then the brush. If you run a brush first, you will damage the firearm. The brush will collect any dirt or moisture and deposit it in the chamber. Never run a brush from muzzle to breech. This will always bring dirt into the chamber and shoulder.

## Magazine Cleaning

(5/6/7) If the magazine is extremely dirty disassemble it. Take the rod handle and push in the button on the bottom of the magazine. Remove the spring, use the AP brush to loosen fouling from the floor plate. Clean with a patch and AP brush. Do not lubricate the magazine.

## Slide Cleaning

(8/9) The toothbrush, end brush and brass scraper can be used to remove fouling from under the extractor, on the breech face, slide rails, firing pin channel and the outside of the slide. Use a patch to wipe the slide inside and out to remove any loosened debris or excess solvent.

## Lubrication

(10/11) Place a few drops of lubricant on the small end brush and paint the slides and barrel.

## Frame Cleaning

(12/13) Use the toothbrush and pick to clean any fouled areas, especially around the trigger linkage and slide stop. Place the patch on the toothbrush to mop out the magazine well.

## Recoil spring assembly cleaning

(14) Use the toothbrush to loosen excess fouling and wipe clean with a patch. Remove the fouling from the outside of the barrel with a solvent soaked patch. Wrap the patch around the brush and clean the slide. Use a solvent soaked brush to clean the fouling from the chamber face, barrel hood and locking lugs.

## Quick Bore Clean without disassembly

(15) Simply open the action, insert assembled cleaning rod with patch & obstruction remover. Place a few drops of solvent on the patch, & pull through breech to muzzle. Though this is faster, it is always better to disassemble the pistol and thoroughly clean your pistol.

## Bore Reflector/Flag Safety

(16) The use of the bore reflector is a sure fire way to show that you have secured your weapon. It also can be used as a light that illuminates the barrel which allows you to check for debris in the barrel.



# RIFLE CLEANING INSTRUCTIONS



Check to make sure the weapon is unloaded and the magazine is empty!

The most important rule of gun cleaning is to always clean from breech to muzzle in the direction of the bullet. There are no exceptions to this rule. If you go in the wrong direction "muzzle to breech" you will bring powder residue and abrasive dirt from the barrel into the chamber, neck and receiver.



## Overview

1. Pull a patch with solvent through the bore to mop out any loose residue and dirt.
2. Pull a brush. Turn it to clean the neck and shoulder of the neck.
3. Pull a new dry patch to mop the residue the brush loosened.
4. Repeat this procedure until the swab comes out clean.



Apply 3 to 5 drops of solvent to the front end of the knot in the swab.

Open the action as if you were inserting a cartridge. Insert the obstruction remover end of the flexible cleaning rod.



The swab is tied onto the forged brass tip so you can rotate the rod within the receiver until it is clean.



Turn the rod as you enter the locking lugs. This is an important area of the weapon. Use the A/P receiver brush or your finger to force the turning swab into the recess in front of the lugs.

Continue turning the swab as it enters the chamber. This will mop out the gummy buildup at the shoulder. Continue to turn the swab as you enter the neck to clean and lubricate this area.



A brush only loosens residue and dirt, the swab is needed in this area to mop this loose dirt from the bore.

Now that you have cleaned the loose residue out of the receiver, locking lugs, chamber, shoulder, and neck, we will clean the bore.



The most important component of the system is the flexible pull-through cleaning rod. The cable-like construction limits the torque on the components. This allows brushes and swabs to easily follow the twist of the rifling. Do not worry about swivels, the rod rotates within itself. Use the "T" handle if you desire. Pull the flexible pull-through rod out of the barrel in the direction of the bullet "breech to muzzle".



Turn the swab over and use a new surface for your next cleaning cycle. This reduces throat erosion



## Using Chamber and Bore Brushes

Assemble the short chamber cleaning rod. The chamber brush on one end the "T" handle on the other end. Insert the brush into the chamber. Turn the brush in a clockwise direction; let it feed itself into the chamber.



This will loosen the powder residue and surface scale in the chamber and locking lugs. Continue turning the brush as it scrubs the shoulder. Turn and pull the brush from the chamber.



Assemble the bore brush on the flexible rod. Insert the rod into and down the bore. Do not pull the brush into the bore at first. Turn the rod as the brush enters the chamber and into the neck.



The neck is critical to the accuracy of the rifle. When the new round is inserted the brass case is a few thousands of an inch from the throat or start of the bore.

The new bullet rests at the start of the throat. When the rifle is fired the case elongates to the shoulder of the neck. If dirt is present the bullet gets trapped and has a later release time. The bore brush is made oversize to scrub this critical area. After scrubbing the neck pull the brush in the direction of the bullet "breech to muzzle".



Now run the swab as we described earlier, this will mop out the chamber area and bore where the brush loosened residue.

## Obstructions

If the chamber is not maintained properly fired cases may get stuck in the chamber. The extractor pulls loose from the rim. To remove the case, run the flexible pull through rod into the bore and with rapid taps hit the base of the case. Eventually the stuck case will be removed. Clean the rifle and pay special attention to the gummy buildup at the chamber shoulder.



The obstruction remover may also be used to remove snow, mud, or other obstruction from the bore in operational conditions. Push the rod down the bore in the direction of the muzzle. Run a patch with solvent to mop out any remaining mud or snow.



## Optics Cleaning

For Extremely Dirty Lenses wash with soap and water. Dry with a cloth patch. For dust only brush lens with the Lens Brush to remove dust or light dirt. For normal cleaning apply lens cleaning spray. Wipe lens thoroughly with lens paper this will remove fingerprints water spots and dust. Dry with a cloth patch.



# Other Military Cleaning Systems from Otis Technology

Item: 308-7 NSN: 1005-01-453-3783

**5.56MM M4/M16 Cleaning System & 7.62mm Sniper Rifle Cleaning System**

Item: 410-8 NSN: 1005-01-455-0565

**JSCS Combat Shotgun Cleaning System Cleans: 12 Gauge**

Item: 645-1 NSN: 1005-01-528-7843

**9MM Pistol Cleaning System Cleans: 9mm Pistols & Subguns**

Item: 223-C08 NSN: 1005-01-541-7228

**C08 Cleaning System Cleans: M16-A1-A2-A4, M4, M249 SAW & All 5.56MM's**

Item: 308-6 NSN: 1005-01-451-5119

**7.62MM Sniper Rifle Cleaning System Cleans: 7.62MM Rifles**

# SNIPER RIFLE CLEANING INSTRUCTIONS

Check to make sure the weapon is unloaded and the magazine is empty!

The most important rule of gun cleaning is to always clean from breech to muzzle in the direction of the bullet. There are no exceptions to this rule. If you go in the wrong direction "muzzle to breech" you will bring powder residue and abrasive dirt from the barrel into the chamber and neck.

## Overview

1. Pull a patch with solvent through the bore to mop out any loose residue and dirt.
2. Pull a brush. Turn it to clean the neck and shoulder.
3. Pull a new swab to mop the residue the brush loosened.
4. Repeat this procedure until the swab comes out clean.

Apply 3 to 5 drops of solvent to the front end of the knot in the swab. Open the action as if you were inserting a cartridge. Insert the obstruction remover end of the flexible cleaning rod.

The swab is tied onto the forged brass tip so you can rotate the rod within the receiver until it is clean.

Turn the rod as you enter the locking lugs. This is an important area of the weapon. Use the receiver brush or your finger to force the turning swab into the recess in front of the lugs.

Continue turning the swab as it enters the chamber. This will mop out the gummy buildup at the shoulder. Continue to turn the swab as you enter the neck to clean and lubricate this area.

A brush only loosens residue and dirt, the swab is needed in this area to mop this loose dirt from the bore. Now that you have cleaned the loose residue out of the receiver, locking lugs, chamber, shoulder, and neck, clean the bore.



The most important component of the system is the flexible pull-through cleaning rod. The cable-like construction limits the torque on the components. This allows brushes and swabs to easily follow the twist of the rifling. Do not worry about swivels, the rod rotates within itself. Use the "T" handle if you desire. Pull the flexible pull-through rod out of the barrel in the direction of the bullet "breech to muzzle".

Turn the swab over and use a new surface for your next cleaning cycle. This reduces throat erosion

Using Chamber and Bore Brushes

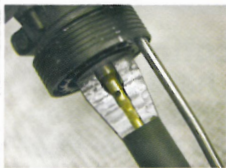
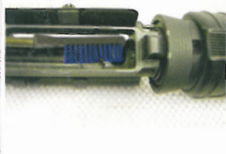
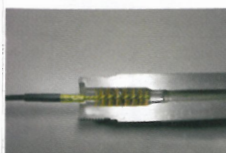
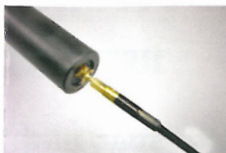
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Assemble the bore brush on the flexible rod. Insert the rod into and down the bore. Do not pull the brush into the bore at first. Turn the rod as the brush enters the chamber and into the neck.

The neck is critical to the accuracy of the rifle. When a new round is inserted the brass case is a few thousandths of an inch from the throat or start of the bore. The new bullet rests at the start of the throat. When the rifle is fired the case elongates to the shoulder of the neck. If dirt is present the bullet gets trapped and has a later release time. The bore brush is made oversize to scrub this critical area. After scrubbing the neck pull the brush in the direction of the bullet "breech to muzzle".

Now run the swab as described earlier, this will mop out the chamber area and bore where the brush loosened residue.



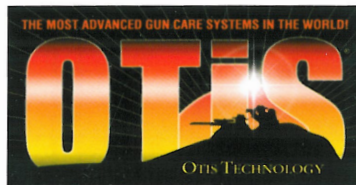
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The obstruction remover may also be used to remove snow, mud, or other obstructions from the bore in operational conditions. Push the rod down the bore in the direction of the muzzle. Run a patch with solvent to mop out any remaining mud or snow.

Bore Reflector/Flag Safety  
The use of the bore reflector is a sure fire way to show that you have secured the weapon. It also can be used as a light that will illuminate the bore.



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U.S. Patents:  
D 480,207; D 589,579; 7,841,472

# IWCK Improved Weapons Cleaning Kit

## Military Issue Cleaning System for 5.56MM, 7.62MM, 9MM & .45 Caliber

*\*Multi-Tool & M16 Rod Set in outside pocket for easy access!*

*\*Alice Clips & Molle Belt on back of ULT Case*



3" Panopoly & 2" M16 Cleaning Patches

Pipe Cleaners

All Purpose Receiver Brush

Otis Lens Cloth

Cotton Swabs

Multi-Tool

Lens Cleaner

Otis Shoot Thru Dust Cap

5.56MM Chamber Brush

Refillable Bottle

Memory-Flex® Cleaning Rods

Side 2 of Insert

Curved Locking Lug Pick

Straight Locking Lug Pick

.22 Cal. Obstruction Remover/T-handle Base

.22 Cal. Slotted Tip

Scraper

M16 Rod Set w/ T-handle

.45 Caliber Bore Brush

9MM Bore Brush

7.62MM Bore Brush

5.56MM Bore Brush

Locking Lug Scraper

.30 Cal. Slotted Tip

Mohair Lens Brush

Dust Brush

Item: 224

NSN: 1005-01-424-2999



5.56MM M16 Buttstock Cleaning System  
Cleans: 5.56MM Rifles

Item: 225-56

NSN: 1005-01-526-7294



5.56MM Grip Kit Cleaning System  
Cleans: 5.56MM \*Also Available in 7.62MM

Item: 85211-5

NSN: 1005-01-526-7354



Deluxe Military Weapons Cleaning System  
Cleans: 5.56 & 7.62, 9mm-45 Cal. & 12 Gauge

Item: 255-3

NSN: 1005-01-445-6804



.50 Caliber Cleaning System  
Cleans: .50 Caliber Rifles

Item: 1000-852-5

NSN: PENDING NSL



Military Elite™ Cleaning System  
Cleans: 5.56, 7.62, 9mm- .45 Cal. 12 Gauge & 40mm