CENTERFIRE

Instructions for cleaning & lubricating your Centerfire rifle.

This is our tried and tested method for cleaning and lubricating your CENTERFIRE RIFLE using our Helmar Cleaning and Lubricating products. We have spent over two years research and development to create the most effective and modern products for this task. With the added bonus of no smell, unlike those other ammonium hydroxide and petroleum based products.

So why clean?
Carbon, which is the fouling from the primer and powder left in your barrel, is hydroscopic. So it will absorb moisture in the air. Eventually that will cause corrosion damage to your barrel. Excessive carbon build-up is also going to adversely affect accuracy by causing a restriction that the projectile needs to pass as it travels down the barrel when your rifle is fired. Copper buildup in your barrel is also going to cause accuracy problems and potential corrosion problems if moisture is sitting under those layers of copper.

Your barrel was designed to be dead straight and centred.
Now you don't have to think about it too much to realise, what a build of carbon and copper will do to that projectile coming down the barrel and the negative effect it will have on the accuracy of your firearm. Apart from the eventual corrosion that it will cause in the barrel.

At the end of the day you do not want fouling of any type in your rifle barrel. Remember always clean your rifle before storage. Never put it away dirty.

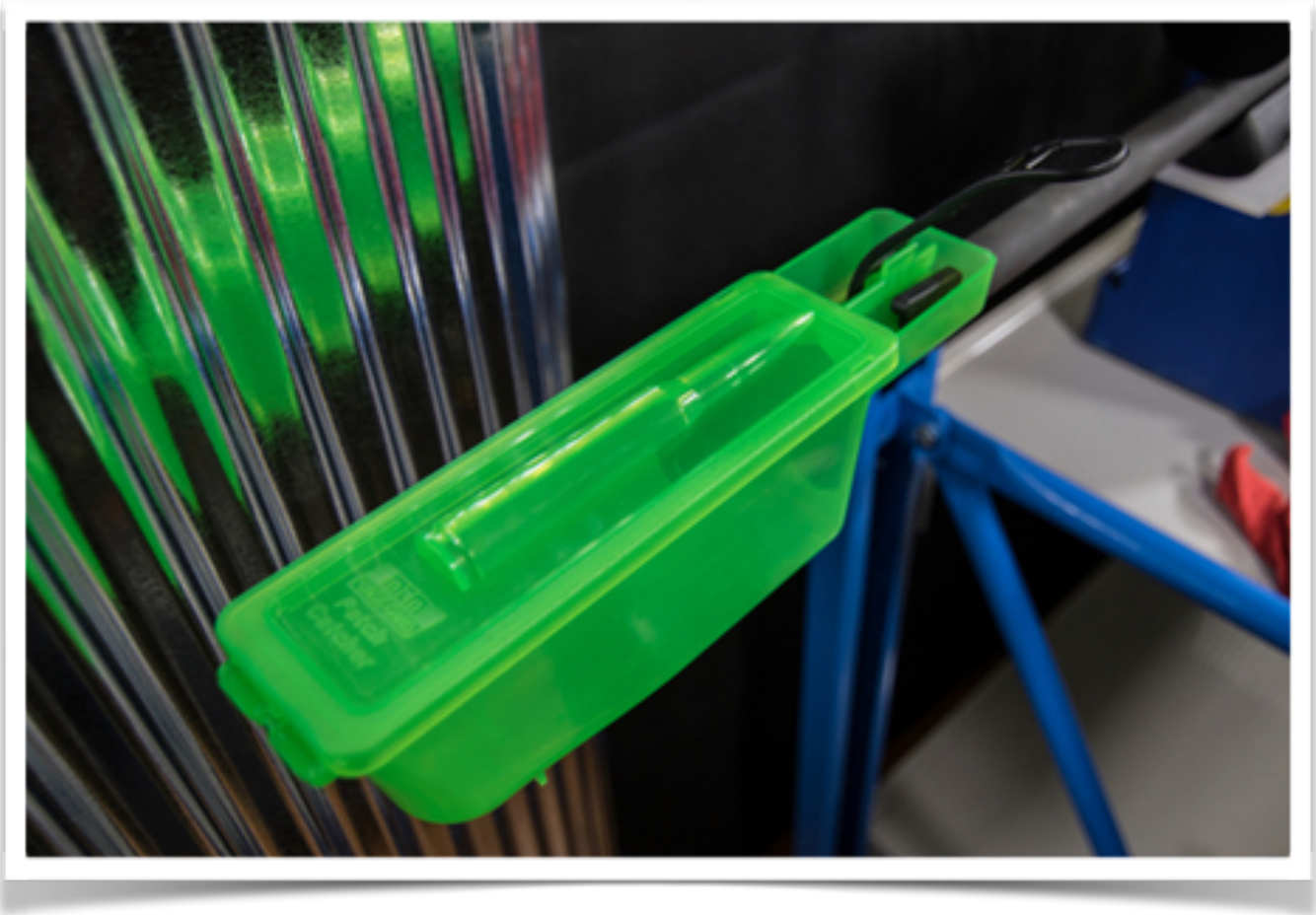
So here is the most effective way to clean it.
What you will need:
Helmar H7500 Firearm Carbon Remover
Helmar H8000 Firearm Copper Remover
Helmar H9000 Firearm Lubricant
Helmar H9500 Firearm Bore Oil
Helmar H1000 Contact Cleaner
Correctly sized bore guide for your rifle
Correctly sized patches
Correctly sized coated one piece cleaning rod
Correctly sized bronze brush for 0.30 caliber & above (Carbon cleaning only)
Correctly sized nylon brush aluminium attachment
Correctly sized aluminium jag attachment
A work stand to hold your rifle
A patch catcher (optional but handy to have)
Some cotton rags

Basic setup needed to effectively clean and lubricate your rifle.

Remove the bolt & magazine. Place your rifle securely in your work stand.

Check and confirm your rifle is unloaded.

Insert your bore guide, cover your stock and attach your patch catcher.



Its always a sensible idea to wear protective eyewear during this process.

Step 1. Attach the nylon brush attachment to your coated rod. Generously apply Helmar H7500 Carbon Remover to the brush. Insert the brush and rod into the bore guide and push all the way through until the brush is completely out of the muzzle and then pull it back in until the brush is back in the bore guide. Never change direction inside the barrel. Repeat for ten strokes.
Then re-apply Helmar H7500 Carbon Remover to the brush and repeat the process.
Wipe your rod after each ten stroke application to remove any residue and contaminant.

You are doing this complete process with the brush two times.
(2 x ten strokes)

Then move on to the next step.

Just a side note here you will most likely need to use a bronze brush for this step when cleaning 0.30 caliber and above.

Step 2. Attach the aluminium jag to your coated rod then attach a new clean patch. Generously apply Helmar H7500 Carbon Remover to the patch on both sides. ***Give it a few seconds to soak into the patch.*** Make sure the patch is wet with Helmar H7500 Carbon Remover. Insert the rod with patch into the bore guide and push all the way through, until the patch is completely out of the muzzle. Remove the patch and then pull the rod back out through the bore guide. Wipe your rod after each patch to remove any residue and contaminant.

Attach a new clean patch and re-apply Helmar H7500 Carbon Remover and repeat the process. Do this for 2-4 patches depending on how much carbon is showing on the patch after its been through the barrel.
Next attach a new clean & dry patch, insert rod with patch into the bore guide and push all the way through the barrel. Remove the patch and then pull the rod back out through the bore guide. Attach a new patch and repeat the process. Do this until your patches come out clean. Wipe your rod after each patch to remove any residue and contaminant. If the patches don't appear to be coming out clean after 4-6 patches go back and repeat Step 1. & Step 2.

If they are coming out clean move on to the next step.

An example of what you should see. Every barrel and ammunition is different so it may be as dirty as this and it may not be. This photo is to give you an idea of what you should be seeing and looking for.

Its always a sensible idea to wear protective eyewear during this process.

Step 3.
Attach the nylon brush attachment to your coated rod. Generously apply Helmar H8000 Copper Remover to the brush. Insert the brush and rod into the bore guide and push all the way through until the brush is completely out of the muzzle and then pull it back in until the brush is back in the bore guide. Never change direction inside the barrel. Repeat for ten strokes.
Then re-apply Helmar H8000 Copper Remover to the brush and repeat the process.
Wipe your rod after each ten stroke application to remove any residue and contaminant.

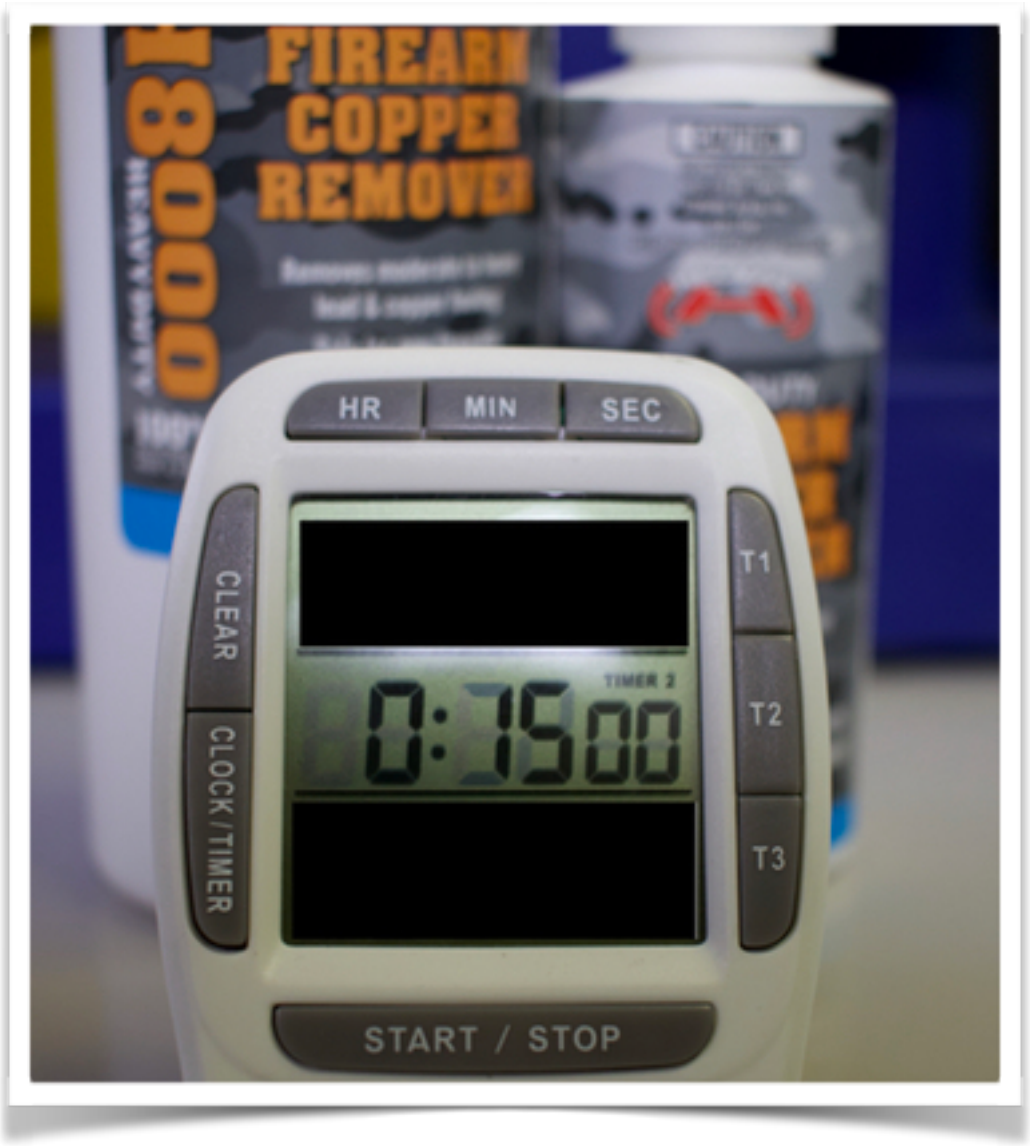
You are doing this complete process with the brush two times.
(2 x ten strokes)

Then move on to the next step.

Step 4. Attach the aluminium jag to your coated rod then attach a new clean patch. Generously apply Helmar H8000 Copper Remover to the patch on both sides. ***Give it a few seconds to soak into the patch.*** Make sure the patch is wet with Helmar H8000 Copper Remover. Insert the rod with patch into the bore guide and push all the way through, until the patch is completely out of the muzzle. Remove the patch and then pull the rod back out through the bore guide. Wipe your rod after each patch to remove any residue and contaminant.

Attach a new clean patch and re-apply Helmar H8000 Copper Remover and repeat the process. Do this for 2 patches.

Now here's **the most important part** leave it to soak for 12-15 minutes.
It is a chemical reaction that takes place between the copper and Helmar H8000 that takes 12-15 minutes to be effective.



We cannot state strongly enough how important this step is. Leave for 12-15 minutes to soak.

Go grab a coffee, tea etc. See you back here in 15 minutes.

Step 5. Next attach a new clean & dry patch, insert rod with patch into the bore guide and push all the way through the barrel. Remove the patch and then pull the rod back out through the bore guide. Attach a new patch and repeat the process. Do this until your patches come out clean. You should see anything from bright blue, pale blue, light blue, etc. and maybe some carbon on the patches. A lot will depend on your barrel and the ammunition. Wipe your rod after each patch to remove any residue and contaminant. If the patches don't appear to be coming out clean after 6-8 patches go back and repeat Step 3. & Step 4.

If they are coming out clean move on to the next step.
An example of what you should see. Every barrel and ammunition is different so it may be as light as this and it may not be. This is a very new barrel and doesn't appear to hold a lot of copper. This was after 60 rounds of Hornady 223 Rem 75 gr BTHP Superformance Match ammunition. Checked with a bore scope before and after. This photo is to give you an idea of what you should be seeing and looking for.

Step 6. While you have the bolt out give it a good spray with Helmar H1000 Contact Cleaner covering all angles of the bolt to remove any residual carbon and contaminants. It should dry rapidly but always ensure the bolt is dry before completing the next step.

Step 7. Apply Helmar H9000 Firearm Lubricant to the bolt ensuring to lubricate well. Now take a clean cloth and remove any excess. The bolt should not be drowning in Helmar H9000 Firearm Lubricant nor should it be dripping. Just a thin complete covering is all you need.

Step 8. After you've finished cleaning you need to protect the barrel in storage from any moisture in the air and the subsequent corrosion that will occur. Helmar H9500 Firearm Bore oil will protect your barrel from corrosion until your next shoot and is far superior to the other bore oils out there that tend to break down after a couple of weeks, leaving your barrel exposed to potential corrosion.

Attach the aluminium jag to your coated rod then attach a new clean patch. Generously apply Helmar H9500 Bore Oil to the patch on both sides. ***Give it a few seconds to soak into the patch.*** Make sure the patch is wet. Insert the rod with patch into the bore guide and push all the way through, until the patch is completely out of the muzzle. Remove the patch and then pull the rod back out through the bore guide. Wipe your rod after application to remove any residue. Finally remove the bore guide and patch catcher. Replace the bolt and magazine before storage following standard safety procedures.

Always wash your hands after the cleaning & lubricating process before eating, drinking or smoking.

Before your next shoot run a new clean & dry patch through the barrel prior to firing your first round.

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