

# THE PHANTOM<sup>®</sup> .22



**YHM<sup>®</sup>**

*SILENCING  
THE COMPETITION*



# **PHANTOM .22**

## **RIMFIRE SOUND SUPPRESSOR YHM - 4380**

### **CARE AND MAINTENANCE INSTRUCTIONS**

#### **!WARNING!**

**DO NOT USE THIS SOUND SUPPRESSOR WITH .223 OR 5.56 NATO AMMUNITION**

**CONGRATULATIONS ON THE PURCHASE OF YOUR YHM PHANTOM .22 SUPPRESSOR!**  
**WITH PROPER CARE AND MAINTENANCE, YOUR SOUND SUPPRESSOR WILL PROVIDE YOU WITH YEARS OF TROUBLE-FREE SERVICE.**

**THE PHANTOM .22 FEATURES A COMPACT AND LIGHTWEIGHT DESIGN THAT CAN BE DISASSEMBLED FOR CLEANING. THE SUPPRESSOR'S REAR CAP WORKS AS A DISASSEMBLY TOOL THAT ALLOWS FOR EASY SERVICE. IT FEATURES STAINLESS STEEL BAFFLES TO ENDURE EROSION FROM FULL-AUTO FIRE AND RESIST LEAD BUILDUP.**

# PHANTOM .22 CARE

## SPECIFICATIONS

PART NUMBER	YHM - 4380
CALIBER	.17 HMR THROUGH 5.7x28MM
OVERALL LENGTH	5.5"
DIAMETER	1.1"
WEIGHT	4 Oz.
SUPPRESSION LEVEL	114 dB
ATTACHMENT METHOD	THREADED (1/2-28")
MATERIAL	AIRCRAFT GRADE ALUMINUM & STAINLESS STEEL
FINISH	HARDCOAT ANODIZE

## Barrel Restrictions

CALIBER	LENGTH AND USE
.22 LR	NO BARREL RESTRICTIONS (CAN BE SHOT "WET")
.22 MAG	10" Barrel (only shoot "dry")
5.7 x 28	10" Barrel (only shoot "dry")
.17 HMR	10" Barrel (only shoot "dry")

MOST WEAR ON YOUR PHANTOM .22 SOUND SUPPRESSOR COMES FROM FULL-AUTO FIRE. IF YOUR PHANTOM .22 IS TO BE USED WITH AUTOMATIC FIRE, BE SURE TO LET THE SUPPRESSOR COOL BETWEEN MAGAZINES TO PREVENT DAMAGE. **CAUTION! THE SOUND SUPPRESSOR CAN BECOME EXTREMELY HOT! DO NOT ATTEMPT TO TOUCH OR REMOVE THE SOUND SUPPRESSOR UNTIL IT HAS COOLED.** ALSO, KEEP THE SUPPRESSOR AWAY FROM ANYTHING THAT COULD MELT OR CATCH FIRE UNTIL IT HAS COOLED COMPLETELY.

EXCESS OIL, DIRT, AND OTHER CONTAMINANTS SHOULD BE WIPED FROM THE OUTSIDE SURFACE USING A DAMP CLOTH. CLEANING OF THE INTERNALS CAN BE ACCOMPLISHED BY USING THE SUPPLIED DISASSEMBLY TOOL. (SEE THE FOLLOWING PAGES FOR DETAILED CLEANING INSTRUCTIONS.)

THE MOST COMMON PROBLEM ENCOUNTERED WHEN USING A SOUND SUPPRESSOR IS CORROSION CAUSED BY CONDENSATION BUILDUP INSIDE THE SUPPRESSOR. THE BEST WAY TO PREVENT CORROSION OF YOUR FIREARM IS TO REMOVE THE SUPPRESSOR AS SOON AS YOU ARE FINISHED SHOOTING. THIS WILL AID IN THE EVAPORATION PROCESS. IF THE SOUND SUPPRESSOR IS TO REMAIN ON THE FIREARM, IT IS RECOMMENDED THAT IT BE STORED IN A MUZZLE-DOWN POSITION WITH THE ACTION LEFT OPEN.

THE PERIOD BETWEEN CLEANINGS WILL VARY DEPENDING ON WHAT TYPE OF AMMUNITION YOU ARE SHOOTING AS WELL AS ENVIRONMENTAL CONDITIONS. THE SUPPRESSOR SHOULD BE CLEANED AT A MAXIMUM INTERVAL OF 500 ROUNDS (MORE OFTEN WHEN SHOOTING FULL-AUTO). WE STRONGLY RECOMMEND CLEANING THE SOUND SUPPRESSOR AFTER EACH USE TO MAKE THE DISASSEMBLY PROCESS EASIER.

## **WARRANTY:**

YHM OFFERS A LIMITED LIFETIME WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. WE WILL REPAIR OR REPLACE ANY YHM SOUND SUPPRESSOR FREE OF CHARGE AS LONG AS THE WARRANTY HAS NOT BEEN VOIDED. ANY REPAIRS NOT COVERED BY THIS WARRANTY WILL BE CHARGED TO THE OWNER.

THE WARRANTY WILL BE CONSIDERED NULL AND VOID AND YHM WILL NOT COVER DAMAGE TO THE SOUND SUPPRESSOR AND/OR HOST FIREARM RESULTING IN WHOLE OR IN PART FROM: CRIMINAL OR NEGLIGENT USE, MISUSE, CARELESS HANDLING, MODIFICATIONS, USE ON A BARREL SHORTER THAN OUR STATED MINIMUM BARREL LENGTH, USE OF A CRUSH WASHER, PEEL WASHER OR ANYTHING ELSE THAT CAUSES MISALIGNMENT, USE OF AMMUNITION THAT IS DEFECTIVE, IMPROPERLY HANDLOADED, RELOADED, OR IMPROPERLY SIZED FOR THE SUPPRESSOR, ORDINARY WEAR AND TEAR.

YHM PRODUCTS ARE SOLD "AS IS" AND HAVE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## **NON-WARRANTY REPLACEMENT**

IN THE EVENT THAT A SUPPRESSOR IS DESTROYED BEYOND REPAIR AND OUT OF THE CONFINES OF THE ABOVE MENTIONED WARRANTY, THE CUSTOMER MAY PURCHASE A REPLACEMENT SUPPRESSOR OF THE SAME MODEL FOR 50% OFF MSRP.

## **ATTENTION:**

ALL OF OUR SUPPRESSORS ARE DESIGNED AND PRODUCED WITH STATE-OF-THE-ART COMPUTERIZED EQUIPMENT. WE MANUFACTURE AND INSPECT THEM TO EXACTING TOLERANCES. IF INSTALLED AND USED ACCORDING TO THE SPECIFICATIONS WITHIN THIS BOOKLET, A BAFFLE STRIKE IS HIGHLY UNLIKELY. IF A BAFFLE STRIKE WAS TO OCCUR DUE TO A MANUFACTURING DEFECT IT WOULD LIKELY HAPPEN DURING THE FIRST USE OF THE SUPPRESSOR. PLEASE BE VIGILANT WHEN USING YOUR SUPPRESSOR AND CHECK TO ENSURE THAT IT REMAINS FIRMLY ATTACHED TO THE HOST FIREARM.

## **INSTALLATION AND USE:**

ONLY A LICENSED GUNSMITH EXPERIENCED WITH YOUR MODEL OF FIREARM SHOULD INSTALL THIS PRODUCT. FAILURE TO INSTALL THIS PRODUCT CORRECTLY VOIDS ANY WARRANTIES OF THE PRODUCT AND REMOVES ANY LIABILITIES AGAINST THE MANUFACTURER. BE CERTAIN THE FIREARM IS UNLOADED AND THE MUZZLE IS POINTED IN A SAFE DIRECTION BEFORE STARTING THIS REMOVAL AND INSTALLATION PROCESS.

WHEN USING THE PHANTOM .22 SOUND SUPPRESSOR, IT MUST BE ATTACHED DIRECTLY TO THE BARREL. BEFORE ATTACHING YOUR PHANTOM .22 SOUND SUPPRESSOR, YOU SHOULD CHECK TO ENSURE THAT THE THREADS OF THE BARREL MEET OUR THREAD SPECIFICATIONS. CHECK OUR WEBSITE FOR DETAILED BARREL THREAD INFORMATION. INSTALLATION TO BE HAND TIGHT ONLY. THE USE OF A CRUSH, LOCK, OR PEEL WASHER IS NOT RECOMMENDED AS ANY OF THESE MAY CAUSE THE SUPPRESSOR TO BECOME MISALIGNED AND WILL VOID YOUR WARRANTY.

MOST BAFFLE STRIKES ARE CAUSED BY THE SUPPRESSOR COMING LOOSE. CHECK FREQUENTLY TO ENSURE THE SUPPRESSOR REMAINS TIGHT TO THE HOST FIREARM.

# DISASSEMBLY:

BEFORE REMOVING THE SOUND SUPPRESSOR OR THE INTERNALS, BE SURE THE FIREARM IS UNLOADED  
AND THE MUZZLE IS POINTED IN A SAFE DIRECTION.  
YHM RECOMMENDS CLEANING THE SUPPRESSOR AFTER EACH USE AS IT WILL BE EASIER TO TAKE APART  
AND TO REMOVE LEAD AND CARBON BUILDUP.

## STEP 1



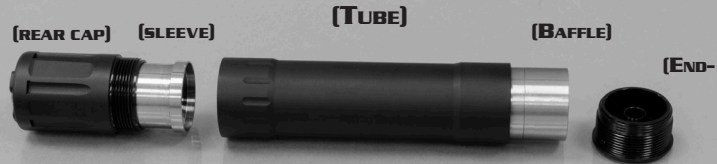
SEPARATE THE TUBE FROM THE  
BLAST CHAMBER

USING THE TOOL BUILT INTO REAR  
CAP, UNSCREW THE ENDCAP FROM THE  
SUPPRESSOR BODY.



## STEP 2

## STEP 3



SLIDE THE BAFFLE ASSEMBLY OUT OF THE SUPPRESSOR BODY  
AND COMPLETE DISASSEMBLY

# **DISASSEMBLY**

## **STEP 3:**

**CLEAN THE INSIDE OF THE SUPPRESSOR USING A STIFF BRUSH AND A GOOD GUN CLEANING OIL.**

**BE CAREFUL WHEN SELECTING A CLEANING SOLUTION AS SOME MAY HARM THE ALUMINUM PARTS OF THE SUPPRESSOR.**

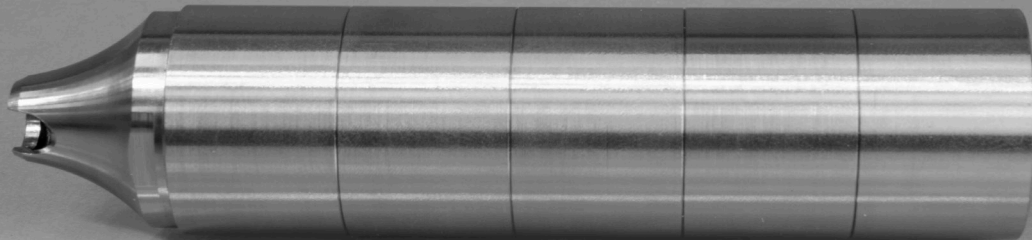
**A SIMPLE SOAP AND WATER SOLUTION CAN BE USED TO REMOVE POWDER RESIDUE AND LOOSEN PARTICLES, BEFORE HAND CLEANING.**





# REASSEMBLY STEP 1: BAFFLE REASSEMBLY

**HOST  
FIREARM  
SIDE**



**DOWN  
RANGE**

**ALLOW THE SUPPRESSOR TO DRY. THE BAFFLE ASSEMBLY CONSISTS OF 5 SEPARATE PIECES. CONTINUE COMBINING ALL THE BAFFLES, TAKING CARE TO LINE UP THE INTERLOCKING TABS.**



## **REASSEMBLY STEP 2: REPLACE ENDCAP**

USE INTEGRATED TOOL IN REAR CAP TO SECURE ENDCAP



## **REASSEMBLY STEP 3: COMBINING THE BAFFLE AND TUBE ASSEMBLIES**



INSERT BAFFLE STACK ENSURING THAT FLAT END IS  
TOWARDS THE ENDCAP.

## **REASSEMBLY STEP 4: INSERT SLEEVE WITH LARGE END FORWARD**



(A SMALL GAP BETWEEN THE TUBE AND THE BLAST CHAMBER IS  
NORMAL. ONLY ASSEMBLE HAND TIGHT)



## **REASSEMBLY STEP 5: REATTACH REAR CAP**

**YOU ARE NOW READY TO RE-ATTACH YOUR PHANTOM .22 TO  
YOUR HOST FIREARM.**

IF YOUR SOUND SUPPRESSOR  
SHOULD EVER REQUIRE REPAIR,  
PLEASE CONTACT YHM PRIOR TO SHIPPING.  
THIS WILL HELP US SPEED THE REPAIR PROCESS.

**YANKEE HILL MACHINE CO., INC.**

**412 MAIN STREET**

**EASTHAMPTON, MA 01027**

**TOLL-FREE: 1-877-892-6533**

**FAX: 413-584-1326**

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TO RECEIVE A FREE T-SHIRT AT**

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