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WARNING: BEFORE USING THLS FIREARMS, READ AND FOLLOW THESE INSTRUCTIONS e7193COVER:Layout 1 8/31/11 11:10 AM PAGE 2 TABLE OF CONTENTS... Warnings / Warnings / Safe Processing 1 Dangerous procedures..... 2 About your Bushmaster rifle..... 3 Rifle Office - Identification / Location 4 Carbon 15 Models - Identification..... 6 Cleaning rifle..... 7 Preventive maintenance checks..... 8 Security check..... 8 Preparing for a fire / Downloading a log..... 9 Operation your rifle / Loading 10 Operation / Log insertion..... 10 Operation / Camera from Open Bolt..... 11 Operation / Chamb0_Placed.qxd 12/28/07 3:30 PM Page 1 PLEASE PRACTICE SAFE FIREARMS HANDLING! WARNING: IF THE FIREARM IS CARELESS OR MISHANDLED, AN UNINTENTIONAL DISCHARGE CAN AND CAN CAUSE INJURY, DEATH OR DAMAGE TO PROPERTY. WARNING: CAREFULLY READ THIS INSTRUCTION MANUAL PRIOR TO LOADING AND FIRING THIS FIREARM.0_PLACED.qxd 12/28/07 3:30 PM Page 2 WARNING: BEWARE OF DANGEROUS PROCEDURES - Make sure Cam Pin is installed in the bolt group. If this is not the case, your rifle can still shoot and will EXPLODE. When using an empty fire attachment, NEVER FIRE ANYTHING EXCEPT BLANKS! For your safety, we recommend a visible, military-style empty shooting attachment (BFI Part RAY-008).0_Placed.qxd 12/28/07 3:30 PM Page 3 ABOUT YOUR BUSHMASTER RIFLE... They are lightweight, gas, air-chilled, magazine-fed rifles, carbines or pistols that are semi-automatic in operation mode (i.e. one round will shoot every time Hook clicked).0_Placed.qxd 12/28/07 3:30 PM Page 4 Rifle Features Features / Location... A2 Square Front View Post Typical Bushmaster XM15 E2S Rifle - 20 Bbl.0_Placed.qxd 12/28/07 3:30 PM Page 5 Rifle Features - Office - Identification / Location... (cont'd.) Typical Bushmaster XM15 E2S A3 Type Rifle - Flat top Upper receiver w.0_Placed.0 Placed.qxd 12/28/07 3:30 PM Page 7 CLEARING YOUR RIFLE... ALWAYS FOLLOW THE RULES OF SAFE HANDLING OF WEAPONS. First, suppose the gun you handle is loaded and then proceed - according to the following steps - to CLEAR YOUR RIFLE... 1. Rifle point in SAFE DIRECTION! Place the safety selector lever on SAFE. NOTE: If the rifle is not cocked, the safety selector lever cannot be directed to SAFE. 2. Click the log Catch button and pull the magazine down to remove. 3.0_Placed.qxd 12/28/07 3:30 PM Page 8 PREVENTATIVE MAINTENANCE CHECKS and SERVICES... CHECK BEFORE YOU SHOOT! ... 1. Check to see that there is no EXCESSIVE OIL in the well. If there is, smear it with a patch and clean the rod. ALWAYS CLEAN A NEW RIFLE BEFORE FIRING. Warning! If the rifle is shot with oil - or water - in the barrel, excessive pressure will be created causing the rifle to explode. 2. Recall the Bolt to ensure free movement between the Bolt Carrier and the gas pipe. 3.0_Placed.qxd 12/28/07 3:30 PM Page 9 SAFETY FUNCTION CHECK.... (Continued) 3. Place the selector lever in the FIRE position. Pull the trigger. THE HAMMER SHOULD FALL. NOTE: For the purposes of the next test, SLOW is defined as one-quarter to half the normal trigger rate. 4. Hold the trigger at the back, pull the charging handle to the back and release the charging handle. Then release the pressure on the trigger with slow, smooth movement, without hesitation or stops until the trigger is completely forward.0_Placed.qxd 12/28/07 3:30 PM Page 10 OPERATION OF YOUR RIFLE... DOWNLOAD CAUTION: ALWAYS POINT THE MUZZLE IN A SAFE DIRECTION! 1. With a hammer cocked, place the selector lever on SAFE. 2. Open the Bolt and check the fire camera. Make sure it's CLEAR! IN THE MAGAZINE BOX... Pg. 10 1. Return the charging handle to the fast forward, blocked position. Click the magazine in Well, while the magazine Catch is engaged and keeps the magazine. 2. Slap up the log bottom to make sure it sits correctly.0_Placed.qxd 12/28/07 3:30 PM Page 11 OPERATION your RIFLE... (Continued) CAMERA ROUND WITH OPEN BOLT... NOTE: The log can be inserted into the rifle with Bolt Build Open or closed. BOLT CATCH FORWARD TO HELP 1. Depression tops bolt catch. Bolt has to spring forward. This will be a camera round out of the magazine. 2. TAP Forward Assist with heel of the hand to make sure that the Bolt is fully forward and locked. THE RIFLE IS NOW READY TO BE AND SHOT! Pg.0_Placed.qxd 12/28/07 3:30 PME Page 12 OPERATION YOUR RIFLE... (CONTINUED) CAMERA ROUND FROM THE CLOSED BOLT... 1. With the magazine in the rifle, pull the charging handle handle to the rear. Then release the charging handle allowing Bolt to spring forward - the first round camera. NEVER ride or press the charging handle forward (as pictured below). Let it move forward on its own. 2. TAP Forward Assist to ensure that Bolt is fully forward and locked.0_Placed.qxd 12/28/07 3:30 PM PAGE 13 OPERATION YOUR RIFLE... (Continued) CONDITION: The rifle is now loaded, round chambered, and the safety selector should be on SAFE. NOTE: ALWAYS POINT YOUR FACE IN A SAFE DIRECTION! To fire the rifle in the SEMI-AUTOMATIC MODE (one round shot with each push on the trigger), move the security selector from SAFE to FIRE. The goal is to pull the trigger - release. The rifle will automatically retrieve the drawn cartridge and camera of another in preparation for the next shot.0_Placed.qxd 12/28/07 3:30 PM Page 14 IMMEDIATE ACTIONS - IN CASE OF TROUBLE! IF YOUR RIFLE STOPS FIRING: Follow IMMEDIATE ACTIONS... FIRE CAMERA 1. SLAP up the log to make sure it sits right. 2. PULL Charging Handle all the way back. Watch the case or cartridge be released. Check the fire camera for obstacles. Warning... DO NOT LOAD WITH A HOT CAMERA - THE ROUND CAN COOK. Pg.0_Placed.qxd 12/28/07 3:30 PM Page 15 IMMEDIATE ACTIONS - IN THE BEFORE! 3. If the cartridge or case is thrown away, or the camera is clear, release Charging Pen to feed a new round. Don't ride the Charging Handle forward. (Continued) 4. Click Forward Assist to ensure Bolt is blocked. 5. Now FIRE. If the rifle doesn't fire, look for problems and apply the corrective measures described on the next Page. Pg.0_Placed.qxd 12/28/07 3:30 PM Page 16 REMEDIAL ACTIONS... WARNING: IF YOUR RIFLE STOPS FIRING WITH A LIVE ROUND IN THE HOT BARREL CHAMBER, REMOVE THE ROUND QUICKLY. However, if you can't remove it for 10 seconds, remove the log and wait 15 minutes with the rifle pointing in a safe direction (always make sure the SAFE direction stays safe during that time). So you and those around you won't suffer from the possibility of round cooking from.0_Placed.qxd 12/28/07 3:30pm Page 17 BULLET STUCK IN BORE... WARNING: IF AN AUDIBLE POP OR REDUCED RECOIL IS EXPERIENCED DURING FIRING, IMMEDIATELY CEASE FIRE: Then (1.) Remove the log, (2.) Lock the Bolt from behind, (3.) Place the selector lever on SAFE and (4.) visually examine and/or insert the cleaning rod into the well to make sure the bullet is not stuck in the well. 1. Delete the log 2. Locking Bolt from behind. 3. Place the selector lever on SAFE 4.0_Placed.qxd 12/28/07 3:30 PM Page 18 FRONT SIGHT... Adjustable for lifting... Front Sight Post is threaded - allowing it to be moved up or down to lift adjustments when zero rear sight (see your attractions on the next page). After a back-look glance Front Sight Post should not be moved. A2 DOUBLE DIAPHRAGM REAR SIGHT Adjustable for lift and windage... SHORT RANGE APERTURE: Used for ranges from 0 to 200 meters.0_Placed.qxd 12/28/07 3:30 PM Page 19 YOUR FORECAST... Following the steps below to set zero at 25 meters, your Bushmaster smaller aperture flipped UP M16A2 Type of Rifle Attractions will be installed with a 300-meter combat sight. With this procedure, only front Sight Post and Rear Sight Windage Knob are adjusted so that you can get to the point of sight at 300 meters. PROCEDURES ZEROING 25 METERS... For the M16A2 Type of Iron Rifle Attractions 1.0_Placed.qxd 12/28/07 3:30pm Page 20 25 METER zero PROCEDURES... (Continued) 4. Make sure your field of fire is clear and that it is safe to shoot. Carefully aim and shoot a group of three shots in the center of the target bulls-eye. 5. Inspect your target - if your shot group is not in the center of the bulls-eye, the squares on the target sheet will help you calculate the necessary clicks needed to move your next shot group to bulls-eye.0_Placed.qxd 12/28/07 3:30 PM Page 21 FRONT AND REAR ADJUSTMENT ADJUSTMENT... FRONT SIGHT: To adjust the height, depress the detent and rotate the post. To lift the impact with a bullet, turn the pole in the direction of the up arrow. Change the direction of the rotation to reduce Pooley's impact. Each graduation (cut) moves the point of impact of the Bullet, as specified. IMPACT 0.9 cm (3/8 inches) 3.5 cm (1 3/8 inches) 7.0 cm (2 3/4 in.0_Placed.qxd 12/28/07 3:30 PM Page 22 YOUR RIFLE... 1. CLEAN THE RIFLE! (as described in page 7). Turn off the sling for convenience. 2. Click in Takedown Pin (bullet tip can help) as far as it will go. Top receiver pivot from the bottom receiver. 3. Click in Pivot Pin (bullet tip can help). 4. Separate upper and lower receivers. 5. Pull back by charging the handle and carrying the bolt. Pg.0_Placed.qxd 12/28/07 3:30 PMS Page 23 SOURCE YOUR SPLASH... (Continued) 6. Remove Bolt Carrier and Bolt. 7. Remove the charging handle by pulling back and up to the ears clear cutouts in the receiver. 8. Remove the fire pin while retaining the pin. The bullet tip can help push it out of the Bolt carrier. 9. Drop Shooting Pin from the rear bolt carrier. Do not open or close the split end of Pin Shooting By Keeping Pin, and do not replace the common contact cotter on the assembly. Pg.0_Placed.qxd 12/28/07 3:30 PMS Page 24 SOURCE YOUR BOOM... (Continued) 10. Tap Bolt in a blocked position. 12. Remove the Bolt Build from the Bolt Carrier by pulling straight. Pg. 24 11. Remove the Cam Pin by rotating 1/4 turn and lift out.0_Placed.qxd 12/28/07 3:30pm Page 25 DISASSEMBLING YOUR RIFLE... (CONTINUED) DISASSEMBLE WITH HELP STEPS 13 THROUGH 16 ONLY WHEN DIRTY OR 13. Remove the pin extractor by pushing out with the impact or tip of the bullet. 14. Remove the extractor from spring. CLICK EXTRACTOR POKE OUT... Don't lose it! Note: Note: extractor back to test the Spring feature. WARNING: Extractor Spring can pop out and get lost! Pg.0_Placed.qxd 12/28/07 3:30 PME Page 26 YOUR RIFLE... (CONTINUED) DISASSEMBLE WITH THE HELP OF STEPS 13 THROUGH 16 ONLY WHEN DIRTY OR DAMAGED. 15. With hammer cocked, oppress Buffer Retainer with a blow or bullet tip to release the buffer and spring. BUFFER BUFFER RETAINER CAUTION! The buffer is energized by Action Spring. NOTE: The hammer should be cocked to make a buffer and spring to clear the receiver. 15. Pull the buffer and spring action to clean. STOP Pg.0_Placed.qxd 12/28/07 3:30 PM Page 27 INSPECTION - CLEANING - LUDRICA... AFTER YOUR RIFLE, clean it as soon as possible to make the job easier and avoid permitting the development of any corrosion. When a firearm has not been released, you should clear it at least once or twice a year if you live in a temperate climate, or as often as once a week in a tropical climate. If you get a firearm wet, clean it as soon as possible to avoid corrosion or rust.0_Placed.qxd 12/28/07 3:30pm Page 28 DETAILED CLEANING TECHNIQUES... NOTE: The procedures below describe cleaning with a standard military issue of many parts of the cleaning kit rod. Other commercial cleaning kits may include alternative cleaning instructions that can be just as effective. CLEANING BORE: The hole of your Bushmaster rifle has ground and Grooves is called slicing. The rifling makes the bullet spin very fast as it moves down the Bohr and down range.0_Placed.qxd 12/28/07 3:30pm Page 29 DETAILED CLEANING TECHNIQUES... (Continued) 6. After one pull, remove the handle section and repeat the process. After three or four pulls, three sections of the rod and the boron brush can become screwed tightly together. Weaken them and repeat the process. 7. Send the patch through the bor from time to time to help clear the crud that the brush becomes loose. Simply replace the Bora Brush with a tip of sorts (Patch Holder) and a wet patch. Pull it through.0_Placed.qxd 12/28/07 3:30pm Page 30 CLEANING UPPER RECEIVER... NOTE: Check to make sure there is no freedom between the trunk and the top receiver - if you detect any movement by twisting your arms, the barrel of the nut should be retorqued. Bring the rifle to your gunsmith. 1. Using a CLP-type product, clean all areas (inside and day) of powder contamination, corrosion and Dirt.0_Placed.qxd 12/28/07 3:30pm Page 31 CLEANING UPPER RECEIVER... Cleaning Bolt, Bolt Carrier and Components ... (Continued) 1. Clean the gas key on top of the Bolt Carrier using a tip or pipe cleaner. Also clean all carbon/powder residues from the vents in the Bolt Carrier. 2. Clean and check Bolt, Cam Pin, Pin и стрельба Pin Сохранение Pin тщательно. CLEAN OUT KEY AND GAS CHECK THE BOLT: Ищите трещины или переломы, CARRIER VENT особенно в отверстия Cam Pin area.0_Placed.qxd area.0_Placed.qxd 3:30 P.M. Page 32 CLEARING TOP RECEIVER... Cleaning Bolt, Bolt Carrier and Components ... (Continued) EXTRACTOR 3. CHECK EXTRACTOR AND EXTRACTOR SPRING: If the extractor is chipped, or has a broken edge in the lip area that deals with the cartridge rim, it should be replaced. Make sure the rubber insert is inside the Spring extractor. Clear of any carbon buildup or powder residue.0_Placed.qxd 12/28/07 3:30 PM Page 33 CLEANING THE LOWER RECEIVER... 1. Clean all areas of powder contamination, corrosion, dirt and rust. Again, never use a wire brush or any type of abrasive to clean the aluminum lower receiver. 2. Wipe any dirt from the trigger mechanism. Carefully clean the log issue button and catch the log cavity on the left side of the receiver. Also, check and clean the Bolt Catch Mechanism and Receiver Takedown and Pivot Pins.0_Placed.qxd 12/28/07 3:30 p.m. Page 34 LUDRICK - UPPER and LOWER RECEIVERS... LUBRICATE LUGS Upper Receiver... Lightly grease the inside of the upper receiver, well and chamber (using a cleaning rod and patch), the outer surfaces of the trunk and front sight, and the surface under the guard. Make sure you lubricate in and around all the locking meadows (as pictured above). Forward Assist should also be slightly smeared inside the receiver and checked for function.0_Placed.qxd 12/28/07 3:30 p.m. Page 35 LUDRICK - BOLT CARRIER GROUP... Shooting Pin: Slightly grease the shooting pin with CLP - also shooting pin break in the bolt. Bolt: generously grease Bolt, his Cam Pin area, Bolt gas rings. The lighter app is good on Extractor, and it's Pin. Charging handle: Lightly grease the charging handle and its latch and spring. Bolt Carrier: Slightly grease the inside and outer surface of Bolt Carrier.0_Placed.qxd 12/28/07 3:30 PM Page 36 LUBRICATION - ADJUSTABLE REAR SIGHT... NOTE: Record how far you move the rear sight so that it can be returned to its original position after the task has been completed. Rear View Moving Parts: Use 1 or 2 drops of CLP. Turn these pieces to make sure the lubricant is evenly distributed above and around the strands: DETENT 1. SPRING HOLE 2. The height of the windage val screw 3. KNOB 4 wind pen. Wind screw 5.0_Placed.qxd 12/28/07 3:30pm Page 37 REASSEMBLING YOUR RIFLE... 1. Insert action spring and buffer (spring will lock on the buffer if you slide it on - then push and twist counterclockwise). Depression Buffer Detent and push Buffer in the past Detent and then release. RUBBER INSERT 2. Insert the extractor and spring. NOTE: The extractor assembly has a rubber insert in the INSERT spring. Be sure to it.0_Placed.qxd 12/28/07 3:30 p.m. Page 38 REASSEMBLING YOUR RIFLE... 4. On the back of the Bolt, a wobbly gas ring to reduce the loss of gas pressure. Break three ring clearances 120 120 around the bolt (the 3rd clearance is not seen on the back of the bolt). The rings will slide around in the groove, pushing them into position with a small sharp object. 5. Insert Bolt into Bolt Carrier.0_Placed.qxd 12/28/07 3:30 PM Page 39 REASSEMBLING YOUR RIFLE... (Continued) 7. Fall and Place Shooting Pin. Pull out the Bolt and then re-confirm shooting Pin Saving Pin. NOTE: After inserting the Firing Pin Saving Pin, shooting Pin should not fall out when the Bolt Carrier Group flipped over. PULL BOLT OUT INSERT FIRING PIN INSERT SHOOTING PIN-CODE KEEPING PIN-CODE CAUTION: BUSHMASTER DOES NOT RECOMMEND THE PRACTICE OF BOLTS BETWEEN DIFFERENT RIFLES.0_PLACED.qxd 12/28/07 3:30 PM PAGE 40 REASSEMBLING YOUR RIFLE... 8. Insert the charging handle into the upper receiver and lower the ears at the front end of the handle into the cutouts in the receiver. Then slide the charging handle partially into the receiver. (Continued) 9. Lower full assembly of the Bolt media to the top receiver. The gas key will fit into the groove in the charging handle. REMEMBER, Bolt should be pulled from position in carrier so Cam Pin will fit into the channel at The Upper Receiver. B A 10.0_Placed.qxd 12/28/07 3:30 PM Page 41 REASSEMBLING YOUR RIFLE... (Continued) 11. To join the top and lower receivers, place the Pivot Pin Lug top receiver in the slot in front of the Lower Receiver and press pivot Pin into place. WARNING: ALWAYS place the safety selector lever on SAFE before turning the top receiver into a closed position on the Lower Receiver. 12. Once the receivers are closed, click in Takedown Pin.0_Placed.qxd 12/28/07 3:30 p.m. Page 42 REASSEMBLING YOUR RIFLE... (CONTINUED) HANDGUARD REMOVAL / RE-JOINING - SYSTEM OF BUDDIES... To remove handguards to clean, or reinstall them, use Buddy's system. Because Slip Ring (often called Delta Ring), which keeps handguards in place has a strong spring (Weld Spring), you need to have a buddy help you. NOTE: THE RIFLE MUST BE UNLOADED AND CLEANED. 1.0_Placed.qxd 12/28/07 3:30 PM Page 43 MAGAZINE DISASSEMBLY / REASSEMBLY... Most of It's Mil. Special M-16/AR-15-type logs can be disassembled for cleaning. The spring of the log, the follower of the magazine and The Baseplate magazine can be replaced if broken or excessively worn. 1. To disassemble the log, peek at the bottom of Baseplate using a bullet tip or kick, and press the indentations in Baseplate past body log 2. Slide Baseplate from body log. 3. Jiggle Magazine Spring and follower of Body.0_Placed.qxd 12/28/07 3:30 PM Page 44 PROBLEMS / SOLUTIONS ... PROBLEM: CHECK: WHAT TO DO: THE RIFLE WON'T SHOOT THE SELECTOR LEVER ON SAFE PUTTING IT ON FIRE THE WRONG ASSEMBLY FIRING PIN TO COLLECT PROPERLY KEEPING THE PIN GOES IN THE BACK OF THE BIG SHOULDER BY FIRING THE PIN TOO MUCH OIL IN THE SHOOTING DEEPENING DESTROY WITH A PIPE OF PURE DEFECTIVE AMMUNITION REMOVED AND THROW AWAY TOO MUCH CARBON ON THE SHOOTING PIN OR IN SHOOTING SHOOTING RECESS CLEAN Pg.0_Placed.qxd 12/28/07 3:30 PM Page 45 PROBLEMS / SOLUTIONS... (CONTINUED) PROBLEM: CHECK: WHAT TO DO: BOLT WON'T UNLOCK DIRTY OR SNEST BOLT CLEAN, OR SEE YOUR GUNSMITH WON'T EXTRACT BROKEN EXTRACTOR SPRING SEE YOUR GUNSMITH DIRTY OR CORROSION AMMUNITION REMOVE STUCK ROUND PUSH OUT WITH CLEANING ROD CARBON IN THE CAMERA CLEAN CAMERA FOULING OR CARBON IN EXTRACTOR RECESS OR LIP CLEAN EXTRACTOR PG.0_PLACED'PLACED.qxd 12/28/07 3:30 PM PAGE 47 PROBLEMS / SOLUTIONS ... (CONTINUED) PROBLEM: CHECK FOR: WHAT TO DO: DO NOT FEED (continued) THE ACTION OF THE BUFFER ASSEMBLY IS LIMITED TAKE OUT BUFFER AND SPRING - CLEAN THEM MAGAZINE IS NOT FULLY SEATED ADJUST MAGAZINE CATCH: DOUBLE FEED WILL NOT BE A CHAMBER PRESS MAGAZINE BUTTON CATCH ON THE RIGHT SIDE, THEN TURN CATCH ON THE LEFT SIDE. TURN TO CATCH CLOCKWISE TO TIGHTEN OR COUNTERCLOCKWISE TO LOOSEN. Pg.0_Placed.qxd 12/28/07 3:30 PM Page 48 PROBLEMS / SOLUTIONS... (CONTINUED) WHAT TO DO: PROBLEM: CHECK FOR: DOUBLE FEED DEFECTIVE MAGAZINE REPLACE THERE WILL BE A DIRTY CAMERA OR CORROSION AMMUNITION CLEAN WILL NOT LOCK DAMAGED AMMO REPLACE CARBON IN THE CHAMBER OR ON THE GAS TUBE CLEAN DIRT, CORROSION, OR CARBON BUILDUP IN BLOCK LUGS CLEAN LUGS PG.0_PLACED.qxd 12/28/07 (CONTINUED) WHAT TO DO: CHECK FOR: CHECK FOR: SHORT RECOIL CORRECT ALIGNMENT OF GAPS IN BOLT GAS RINGS GAPS IN 3 GAS RINGS SHOULD BE STAGGERED 120 AROUND THE BOLT BODY FOR MAXIMUM EFFECTIVENESS: TIP GAS RINGS SHOULD TIP GAS RINGS be replaced every 3000 rounds Note: The third gap is not visible in this photo - position on the back of the bolt CARBON OR DIRT IN CARRIER KEY OR ON OUTSIDE GAS TUBE CARRIER KEY OR AROUND GAS TUBE Pg.0_Placed.0Placed.qxd 12/28/07 3:30 PM Page 51 PROBLEMS/ SOLUTIONS... PROBLEM: CHECK FOR: BOLT CARRIER HUNG ROUND STUCK BETWEEN BOLT AND CHARGING HANDLE AND/OR DOUBLE FEED WARNING: KEEP CLEAR OF THE MUZZLE (CONTINUED) WHAT TO DO: 1. REMOVE MAGAZINE. 2. CLICK ON THE BOTTOM OF THE BOLT LATCH. 3. WHEN PULLING DOWN ON THE CHARGING HANDLE, PUSH THE RIFLE BUTT TO THE GROUND. BOLT HAS TO LOCK IN THE BACK. 4. WHILE BOLT HEIL IN THE REAR, ROUND SHOULD FALL THROUGH THE MAGAZINE WELL.0_PLACED.qxd 12/28/07 3:30 PM PAGE 52 COLD WEATHER SHOOTING... If cold weather requires this, your Bushmaster can be shot in gloves or mittened hands. The trigger guard is designed to open and swing down allowing better access to the Trigger when the shooter wears gloves or mittens. 1. Tap in the forward trigger guard pin with a bullet tip to release the trigger guard. 2. Swing Trigger Guard down for shooting with gloves or mittens.0_Placed.qxd 12/28/07 3:30 MS Page 53 COMPONENT VARIATIONS... within the Bushmaster weapons system this guide is designed to instruct the Bushmaster rifle operator in all necessary aspects maintenance, disassembly, assembly, operation and troubleshooting of any Bushmaster rifle. Within limits Weapon systems can be endless variations of barrel length, stock type, receiver, forend and Sights.0_Placed.qxd 12/28/07 3:30 p.m. Page 54 PARTS SCHEMATIC... Typical Bushmaster XM15 M4A3 Type Carbine B NOTE: See Carbon 15 Models - Differences and instructions specific to disassembly and maintenance for these models. K M4A3 TYPE CARBINE, 5.56MM PART - BCWA3F 14M4 I.M. BUR ST SEM I SAF E - Caliber: 5.56 mm NATO or .223 Rem. Suppressor: 16 (40.0_Placed.qxd 12/28/07 15:30 Page 55 PARTS SCHEMATIC... Typical XM15 M4A3 Type Carbine (Continued) NOTE: See Carbon 15 Models - Differences for Comparison and Instructions, characteristic of disassembly and maintenance for these Models.0_Placed.qxd 12/28/07 3:30 PM Page 56 PARTS SCHEMATIC... Typical XM15 A2 Type Target Rifle NOTE: See Carbon 15 Models - Differences for Comparison and Instructions, characteristic of disassembly and maintenance for these models. FIR - Caliber: 5.56 mm NATO or .223 Rem. - Fire Mode: Safe / Semi-automatic - 30 Round magazine - Length In total: 39.5 (100.3 cm) - Barrel length: 20 (51 cm) - Rifling: 1 in 9 - Weight w/o Mag.: 8.43 Lbs. (3.82 kg) E SAF E ACTION SPRING 8448629 XM15 E2S TARGET RIFLE. 5.0_Placed.qxd 12/28/07 15:30 Page 57 PARTS SCHEMATIC... Typical XM15 A2 Type Target Rifle (Continued) GAS TUBE 8448567 BARREL ASSEMBLY AND COMPONENTS HANDGUARD SNAP RING MS16626-1137 NOTE: See Carbon 15 Models - Differences for Comparison and Instructions Specific to Disassembly and Maintenance for These Models.0_Placed.qxd 12/28/07 3:30 PM Page 58 PART ... Typical Carbon 15 Rifle - Pistol Scheme for Carbon 15 Type R97 Rifle and Carbon 15 Type P97 Pistol Note: For Carbon 15 Flat Top - M4 Models, include REPRESENTATION COMPLETE TYPE 97 RIFLE to the previous chart XM15 E2S M4 Carbine. The differences will be the replacement of molded carbon 15 receivers instead of fake aluminum receivers. Made with Pride in the U.S. © 2006, Bushmaster Firearms International, LLC, Madison, N.C.0_Placed.qxd 12/28/07 3:30 p.m. Page 59 PARTS SCHEMATIC... Typical Carbon 15 Rifle - Pistol (Continued) HANDGUARD RETAINER AZ15324 O-RING AZ15077 ASSEMBLAGE OF THE GUN BARREL AND COMPONENTS OF THE ASSEMBLY BARREL AND COMPONENTS OF THE PISTOL BUFFER TUBE AZ15078 HANDGUARD TUBE AZ15093 CERAMIC LINER HANDGUARD INSERT A15139 INCL. W.0_Placed.qxd 12/28/07 3:30 PM Page 60 Bushmaster Carbon 15 Models - Differences ... Carbon 15 Sighting Systems: The sights on carbon 15 rifles and pistols are different from the traditional AR-15 type rifle systems as shown below. All rails on Carbon 15 Upper Receivers process from hard anodized aluminum aircraft in Picatinny configuration, and will take a wide range of areas, optics, holographic, and red dots B.M.A.S. Флип-уп Задний прицел - The The View B.M.A.S. Flip-up with windage adjustment.0_Placed.qxd 12/28/07 3:30 PM Page 61 Bush Master Carbon 15 Models - Differences... (Continued) Carbon 15 Upper and Lower Receivers: In addition to the fact that they are molded carbon fiber material, the top and bottom receivers on the carbon 15 rifles and pistols in the R or P Series models are separate from each other in a different way than the XM15 E2S Bushmaster models with aluminum receivers. Steps showdown: 1. Weapons should be in SAFE CONDITION. Clean Rifle (or Pistol) and Remove Magazine.0_Placed.qxd 12/28/07 3:30 PM TIME Page 62 Bushmaster Carbon 15 Models - Differences... (Continued) Carbon 15 Rifle Buttstock Removal: Molded Carbon Fiber Buttstocks on R Series Rifles can be easily removed from the Lower Receiver for more convenient storage or cleaning, or access to a buffer pipe. Steps showdown: 1. Weapons should be in SAFE CONDITION. Clear the rifle and remove the log. Make sure the Bolt Carrier is fully forward and locked. 2.0_Placed.qxd 12/28/07 3:30 PM Page 63 Bushmaster Carbon 15 Models - Differences ... (Continued) Fast Disconnection Compensator Removal: Stainless steel trunks on the carbon 15 R series of rifles and P series pistols equipped to easily remove the Fast Disconnector. Steps showdown: 1. Weapons should be in SAFE CONDITION. Clear the rifle and remove the log. 2. Take the sliding collar of the compensator s.D. and push it to the end of the muzzle, holding the body of the Compensator. 3.0_Placed.qxd 12/28/07 3:30 PM Page 64 LIMITED ONE YEAR WARRANTY... Bushmaster firearms are justified to be free of defects in materials and fabrication. Any such defect, of which Bushmaster Firearms International, LLC is given a written notice, as given below, within one year and ten days from the date of the first purchase by the customer will be corrected by Bushmaster Firearms International, LLC. This warranty is provided by Bushmaster Firearms International, LLC, P.O. Box 556, Madison, NC 27025 e7193cover:Layout 1 8/31/11 11:10 AM Page 3 PLEASE PRACTICE SAFE FIREARMS HANDLING! WARNING: IF THE FIREARM IS CARELESS OR MISHANDLED, AN UNINTENTIONAL DISCHARGE CAN AND CAN CAUSE INJURY, DEATH OR DAMAGE TO PROPERTY. WARNING: READ MORE THIS GUIDE INSTRUCTIONS BEFORE AND THE WORLD THIS FIREARM.130368COVER_LAYOUT 1 8/22/13 3:49 PM Page 4 Part No. 1001057 Revised 0813 Bushmaster Firearms, - P.O. Box 556 - Madison, Nc 27025 USA Phone: 1 800 998 7928 Web: - Email: customerservice@bushmaster.com © 2006, Bushmaster Firearms International, LLC, Madison, NC Made with Pride in the U.S. Page 2Warnings / Caution / Safe Processing..... 1About your Bushmaster 3Rifle Controls - Identification / Location..... 4Carbon 15 Models - Identification..... 6Preventive 6Preventive Checks..... 8 Security Check Feature..... 8 Preparing for fire / Downloading the log..... 9Pering your rifle / Loading..... 10Operation / Log insertion 10Operation / Camera from Open Bolt 11Operation / Camera from the closed Bolt..... 12Media actions - in case of trouble..... 14Bullet stuck in The Storm..... 1725 Measuror of the zero Procedure 19Front and rearview adjustment..... 21Sebord your rifle..... 22 Cleaning / Grease..... 27 Sensible cleaning methods..... 28Cleaning Top Receiver..... 30Cleaning Bolt and Carrier..... 31 Ejector cleaning..... 32Cleaning Lower Receiver..... 33Love / Upper and Lower receivers 34Lubrication / Bolt Carrier Group..... 35Love / Adjustable rear sight..... 36 Rounding rifle..... 37Magas showdown / Assembly..... 43Problems / Solutions..... 44Cold Weather Shooting..... 52Maintenance in extreme weather conditions..... 52Component variations..... 53Carbon 15 Models / Differences..... 60Bushmaster Firearms - P.O. 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