

MUSTANG BREAKAWAY™ 209 MAGNUM RIFLE



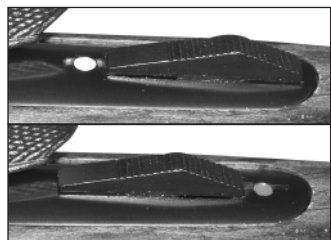
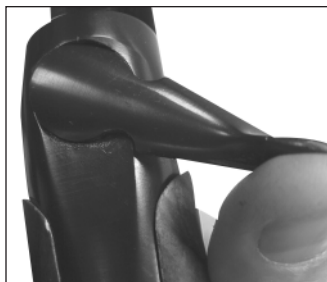
The Lyman Mustang Breakaway 209 Magnum muzzleloader is a rugged and highly accurate black powder hunting rifle that has the same looks and feel of expensive break-open centerfire rifles and shotguns.

The Mustang rifle retains the basic functions of traditional muzzleloaders, while adding the benefits of easy scope installation, sure ignition with 209 shotgun primers, fiber optic sights and a removable breech plug.

The Mustang rifle also allows the convenience and power of loading up to three 50-grain Hodgdon pellets (or an equivalent 150 grain powder charge). The fast 1-28" twist allows you to use a wide range of sabots, Power Belts, and conical type hunting bullets.

How To Operate The Mustang Breakaway Rifle

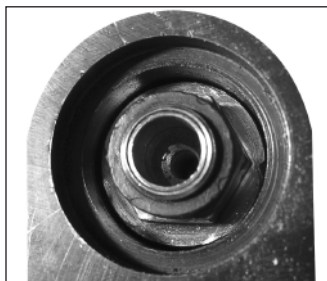
The Mustang rifle is based on a simple break-open design. The rifle is opened and also cocked by pushing the lever located on the tang FULLY to the right. Some resistance will be felt as the lever cocks and opens the action. Support the barrel and forend as the rifle is opened and allow them to swing down fully to their stops. To close the action, push the lever fully to the right and swing the barrel upwards until it stops against the receiver, then release the lever.



The rifle's safety is also located on the tang to the rear of the lever. This is a manually operated safety. To engage the safety, pull it back towards the stock (a white dot will be exposed). To disengage the safety, push it forwards towards the barrel (a red dot will be exposed).

How To Load And Fire The Mustang Breakaway Rifle

Step 1: Open the rifle's action and make sure that there is not a primer positioned in the breech plug. Also check that the vent hole through the breech plug is clear. Please note: Before firing the rifle for the first time, we recommend that

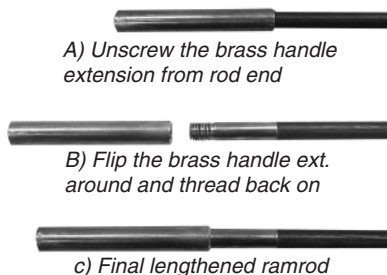


the barrel be cleaned to remove any rust preventative oil that may be in the barrel. See Cleaning Instruction. It is also a good idea to remove any oil that was left in the barrel after normal cleaning.

Step 2: Close the action, pull the safety to its rear “safe” position, and set the rifle’s butt on the ground with the muzzle angled in a safe direction well away from your body. Insert the desired powder charge into the barrel. The Mustang rifle can be used with Hodgdon Pellets, Hodgdon Pyrodex powders, traditional black powder or other brands of black powder substitute powder. See Load Information for further powder charge details.

Step 3: Start a sabot bullet, Power Belt bullet, or lubricated conical bullet into the muzzle using thumb pressure. Then use a ball starter to push the bullet into the barrel. Next, remove the ramrod from the rifle and unscrew the brass handle extension from the end of the rod. Flip the brass handle extension around and thread it back onto the end of the ramrod so that it lengthens the ramrod. See drawing below.

Push the bullet completely down the barrel with the ramrod so that it is firmly seated on the powder charge. Return the handle extension to its original position and place the ramrod back in its storage location beneath the barrel.



Step 4: Open the rifle’s action and place a 209-size shotgun primer into the pocket in the center of the breech plug.

Step 5: Close the rifle’s action while keeping the muzzle pointed in a safe direction. When on target, move the safety to its forward position. The rifle will now fire when the trigger is pulled.



Warning: *Do not place a primer into the breech plug and close the action unless you are ready to fire the rifle!*

Step 6: After firing the rifle, open the action and remove the spent primer.

Sight Adjustment

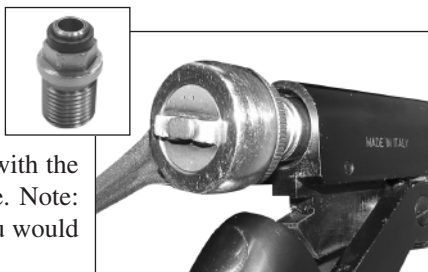
The Mustang Breakaway rifle is equipped with fully adjustable fiber optic sights. To change the elevation of your group, loosen the small set screw on the right hand side of the rear sight and slide the top section of the sight the direction that

you wish to move your group. To change the windage of your group, loosen the small set screw on the top of the rear sight and slide the sight the direction that you wish the group to move. Tighten the set screws to lock the sight in place.

Disassembly And Assembly Of The Mustang Breakaway Rifle

Step 1: Make sure that the rifle is unloaded and unprimed. Remove the ramrod from the rifle.

Step 2: With the action open, place a 1/2" hex socket wrench on to the breech plug and unscrew the breech plug from the barrel. This is best done with the rifle being firmly held in a padded vise. Note: For normal cleaning, this is as far as you would need to go in disassembly.

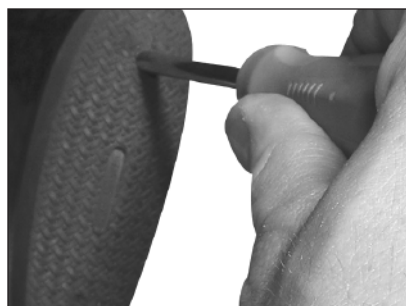


Step 3: Unscrew and remove the front sling swivel stud/forend screw from the rifle. Carefully pull down on the front of the forend so that it pulls away from the barrel at an angle and remove it from the barrel. (Note how the rear of the forend fits around the hinge screw. Be careful not to damage the forend in this area.)

Step 4: Unscrew and remove the hinge stop screw on the right hand side on the receiver. Then unscrew and remove the hinge pin from left hand side of the receiver.



Step 5: Remove the barrel from the receiver.



After considerable shooting or before long-term storage, it may be a good idea to remove the butt stock from the receiver and clean the internal receiver parts. Fouling can slowly work into this area during normal shooting. To remove the butt stock, locate and unscrew the two recoil pad mounting screws. These are accessed through the face of the pad. Once the pad is removed, reach into the

butt stock with a long, flat blade screwdriver and unscrew and remove the stock mounting bolt. The stock can now be pulled off the receiver. **NO FURTHER DISASSEMBLY IS RECOMMENDED.** To clean the action parts, use an old toothbrush, cotton swabs, and cleaning patches to wipe off fouling. Lightly oil the action parts and reinstall the stock.

To reassemble the rifle, simply reverse the above steps.

Cleaning The Mustang Breakaway Rifle

The break-open design of this rifle makes it easy to clean.

Step 1: Open the action and make certain that the rifle is unloaded and unprimed. It is best to perform the cleaning steps when the rifle is being firmly held in a padded vise.

Step 2: Use a 1/2" hex socket wrench to unscrew the breech plug from the barrel.

Step 3: Screw the supplied cleaning jag onto the end of the ramrod. Moisten a cleaning patch with a good black powder solvent. We recommend Butch's Black Powder Bore Shine. Wrap the patch over the end of the jag and push it through the barrel from the breech end to the muzzle. Repeat this step with several patches.



Step 4: Run a dry patch through the barrel in the same direction. Repeat steps 3 and 4 until you are satisfied that all the fouling has been removed from the barrel. If fouling is particularly stubborn, the use of a bronze brush may be required.

Step 5: Run a patch moistened with a good gun oil through the barrel. We recommend Butch's Gun Oil.

Step 6: Use a patch moistened with cleaning solvent to wipe fouling off of the breech end of the barrel and the breech face of the receiver.

Step 7: Clean the breech plug with solvent. An old toothbrush works well. Be sure to clean the primer pocket and flash hole in the breech plug.

Warning: *The breech plug will become difficult to remove if it is not thoroughly cleaned after use. We recommend the use of an anti-seize compound on the threads of the breech plug. This is available from hardware and auto parts stores.*

Step 8: Reinstall the breech plug in the barrel.

Load Information

The Mustang Breakaway rifle can safely fire up to three 50 grain (150 grains total) of Hodgdon Pellets with standard weight 50 caliber projectiles. FFG black powder can also be used with a maximum charge weight of 150 grains. Black powder substitutes such as Hodgdon Pyrodex RS or Goex Pinnacle FFG can also be used in the same volume equivalents charges.

Please note that while the rifle can safely handle the above listed maximum loads, better accuracy may be found with lighter charges. Loads of around 100 grains will still give plenty of energy for most hunting use, good accuracy and will be much more pleasant (and easier on the shoulder!) than full maximum loads. We recommend experimenting with different charge weights to determine what load shoots best in your rifle with a particular bullet. A charge of 50 grains would be considered the minimal for the rifle.

Standard 209 shotshell primers or special purpose 209 muzzleloading primers (such as Winchester Triple Seven primers) should be used. Magnum 209 primers are not recommended.



SPECIFICATIONS

Caliber :	.50 Caliber
Ignition:	209 Primer
Barrel:	1/28" Twist
Powder:	Up to 150 grains or 3 Pyrodex Pellets
Projectile:	Any .50 Cal. bullets or Sabots
Sights:	Fiber Optic front and rear sights; Drilled and Tapped for scope
Scope Bases:	Included with rifle
Scope Rings:	Recommend Weaver Style
Accuracy:	Up to 200 Yards
Weight:	7.5 lbs.
Length:	42.5" Long
Trigger:	Single trigger preset for hunting accuracy at 3.5 to 4 lbs.

Rifle Components



Rifle Components

Drawing Location	Part Number	Description
01	6030301	Stock
02	6030302	Rear Sling Swivel Stud
03	6030303	Stock Bolt
04	6030304	Receiver Assembly
05	6030305	Barrel (50 Cal.)
06	6030306	Barrel Hinge Screw
07	6030307	Barrel Hinge Stop Screw
08	6030308	Breech Plug
09	6030309	Rear Sight and Mounting Screw
10	6030310	Front Sight and Mounting Screw
11	6030311	6-48 Plug Screw (4 Total)
12	6030312	Forend
13	6030313	Front Sling Swivel Stud
14	6030314	Ramrod Thimble
15	6030315	Ramrod Thimble Screw
16	6030316	Ramrod (Complete)
17	6030317	Ramrod Handle Extension
18	6030318	Cleaning Jag (50 Cal.)
19	01329	Pachmayr D750 Decelerator Pad, Small, 1" Black

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