

Ken Nickeson

From: Watson, Laura M.
Sent: 04/02/2004 01:39:50 PM
To: Nickerson, E. Ken
CC:
BCC:
Subject: FW: Model 700 notes

These are some of the notes we've typed up from CSR's notes in past parts and repair training. I have not proofed the information completely. May be something you are interested in using.

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From: Cochran, Melissa
Sent: Tuesday, March 09, 2004 1:24 PM
To: Watson, Laura M.
Subject: Model 700 notes

Model 700

The Model 700 was introduced in 1962 and is still in production at the present time. This rifle has the reputation of being the most accurate out of the box rifle on the market. The Model 700 is a bolt action push feed rifle.

The Model 700 was conceived in the late 50's and was on the market in 1962. It quickly became the standard for production firearms. We were the first to do production guns in an assembly line. Prior to this all guns were done one at a time by hand.

Prior to the introduction of the Model 700 we had several bolt action guns. The Model 600, 660, and the 625 were the predecessors. These were all very accurate and reliable, but the Model 700 was designed

to be better, faster, and easier to make.

The Model 700 was used as a sniper rifle in the Vietnam War.

The Model 700 has seven designations: The ADL, BDL, BDL-DM, VS, MTN, Sendero, and Euro. The ADL-BDL designations were originally acronyms for A Grade Deluxe and B Grade Deluxe. The deluxe term was once tacked on to the end of the model designation: Model 700 ADL Deluxe and Model 700 BDL Custom Deluxe. This designation refers to the grade of wood.

Both models use similar barreled actions, which feature the strongest actions made featuring the legendary "3 Rings of Steel", exceptionally crisp triggers and 3.0 millisecond lock times. However, the Model 700 BDL is fit with a hinged floor plate or detachable magazine (DM) that allows the shooter to unload ammunition through the bottom of the rifle by opening the floor plate or removing the magazine. The Model 700 ADL uses a blind magazine and can only be unloaded through the top by working the bolt open and closed.

Both models are offered in variety of styles, calibers and options to meet individual needs, preferences, and hunting conditions. The Model 700 ADL is available with wood or synthetic stocks and carbon-steel barreled actions. Also available is a Model 700 ADL Synthetic Youth. The Model 700 BDL is available with American Walnut, synthetic or laminated-hardwood stocks, carbon or stainless-steel barreled actions, and mirror-image left-hand versions in the Model 700 BDL and Model 700 LSS models.

We started production of the Model 700 BDL DM in 1993. We do not make the DM in the ultra mag calibers due to our current magazines will not fit. The only exception to this currently is the African Big Game Rifle available only through the custom shop. This is a completely different system. It is a single stack magazine.

Only the Model 700 VS, Model 700 Sendero and most Custom Shop rifles are factory free-floated. Other Model 700 models and Model Seven models, including the Model 700 VLS, feature a pressure point near the tip of the fore-end of the stock. The pressure point (located inside the fore end of the stock) is a design feature. People should not sand them down. They can ruin the accuracy of their firearm. (If they do this and ruin the stock, it is NOT covered by warranty).

Since 1981 Remington has offered the Model 700 Limited Edition "Classic" in a different caliber each year.

The model 700 Classic originated in 1978, sixteen years after the grand conception of the Model 700 (1962). Introductory chamberings included:

- * 22-250 Remington
- * 243 Win.
- * 6mm Remington (1978-1983)
- * 7mm Remington Mag.
- * 270 Win.
- * 30-06 Springfield

Three years later in 1981, the Model 700 Classic was designated annually as a Limited Edition in a single

select, classic caliber. The six original calibers remained a part of the standard product line until 1985.

Year of Manufacture

Model Number

Caliber

1978-1985

Various

22-250 Remington
243 Win.
6mm Remington
7mm Remington Mag.
270 Win.
30-06 Springfield

1981

5758

7x57mm Mauser

1982

5850

257 Roberts (24" barrel)

1983

5846

300 H&H

1984

5754

250 Savage

1985

5756

350 Remington Mag.

1986

5898

264 Win. Mag.

1987

5899

338 Win. Mag.

1988

5901
35 Whelen
1989
5903
300 Wby. Mag.
1990
5907
25-06 Remington
1991
5909
7mm Weatherby
1992
5913
220 Swift
1993
5852
222 Remington
1994
5759
6.5x55mm Swedish
1995
5875
300 Win. Mag.
1996
5877
375 H&H Mag.
1997
5873
280 Remington
1998
5876

8mm Remington Mag. (with sights)

1999

5871

17 Remington

2000

6344

223 Remington

2001

6342

7mm-08 Remington

2002

6348

221 Remington Fireball

2003

5869

300 Savage

Model 700 ADL can be converted to the BDL with hinged floorplate style but not to a detachable magazine. Dimensions of the detachable magazine receivers are different and key parts are not interchangeable. Please contact your local Remington authorized repair center or parts distributor for pricing information. To perform the conversion to a hinged floorplate you will need the following parts:

BDL style stock
Trigger guard
Trigger guard Screws
Magazine box
Magazine spring
Mag. Follower

Remington Arms Co., sells only complete firearms. We do not offer actions-only, or barreled actions at the current time.

NEVER remove the trigger mechanism, or make adjustments to the trigger or trigger assembly. This can put your firearm in an unsafe condition. All adjustments to the trigger must be made by the FACTORY

OR A REMINGTON AUTHORIZED REPAIR CENTER.

Remington makes synthetic stocks that will fit most right hand Model 700 rifles. It is a simple change that can be made with no special skills required with common household tools.

When ordering a replacement stock, it will need to be for the same type (ADL, BDL, BDL-DM, Mtn, Varmint, Sendero) and same action (short action, long action, long action magnum).

Standard production Model 700 rifles utilize a hammer forged rifled barrel. A mandrel for rifling is inserted in the barrel bore and imprints the rifling. Custom Shop Rifles are button rifled.

The differences between the Model 700 Sendero and the Model 700 Varmint is that the Sendero is available in long action calibers and the Varmint is available in short action calibers. Both have a synthetic stock which houses a full-length aluminum bedding block that leaves the barrel completely free-floating. This is a huge selling feature. This is only available in some synthetic stocks. You cannot have an aluminum bedding block in a wood stock. The purpose of the aluminum bedding block is to stabilize the barrel. For the wood stocks, people can bed their stocks using fiberglass, epoxy, or other material. (This will void their warrant on the stock) The Sendero and the VSSF have fluting on the barrel. This cools the barrel faster and makes for better heat dispersion making the barrel more rigid than a barrel of the same weight that has not flutes.

The front and rear sights can be removed from the Model 700. They are attached to the barrel by two screws each. Once removed, the holes from these can be plugged with the receiver plug screws, located on the top of the receiver.

Recoil pads for the Model 700 are not fitted they are flat. Butt plates for the Model 700 are fitted. Recoil pads must be cut to fit the stock (wooden stocks). We do not recommend that consumers attempt this work themselves, we recommend an RARC or competent gunsmith to perform this service. (If they mess up their stock during this process it is not covered by warranty.) (Fitting a recoil pad voids the warranty on the stock only, not the entire firearm) If a gun is a magnum, it gets a recoil pad. Standard long action or short actions get a butt plate.

Model 700 Parts & other misc. facts:

The main parts of the Model 700:

Stock

Trigger

Bolt Assembly

Receiver

Barrel

Receiver: Long action receivers are physically longer to accommodate longer cartridges. The recoil lug is listed as the barrel bracket on the parts list.

3 Rings of Steel: The Model 700 was the first rifle ever to have the 3 rings of steel, this is the portion of the firearm that the receiver, barrel, and the bolt are all lined up to form 3 rings of steel. This is for strength. Most of the pressure generated from the round is contained in this area.

Barrel: Hammer forged on standard production rifles. Blued barrels are ordinance grade carbon steel. Stainless Steel barrels are made from 416 stainless ordinance grade steel.

All guns with standard barrels (not heavy) blued, we put front and rear sights on. We do not put sights on the stainless steel barrels.

Rate of twist: the rate at which a bullet makes one complete revolution in the bore. A faster rate of twist is for heavier bullets, a slower for lighter bullets. Our rates of twist are made to stabilize any bullet in that caliber load- (This is not necessarily true for hand loads).

Extractor: Device for withdrawing the cartridge or fired case from the chamber.

Ejector: Eject the cartridge or fired case from the firearm.

Normally we suggest that they get a gunsmith to put extractors on or they will break them (unless they are familiar with this process) The magnum extractors need to be installed by a gunsmith because of the tooling that has to be done to rivet it.

Guns with riveted extractors in small non magnum calibers are old. Consumers can get parts from Jack First (he can also install these parts) they can change from a riveted to a non riveted extractor with a new bolt assembly. This process would modernize the firearm.

Extractor Types:

Extractor Heavy (thicker) Rivetless: Current short and long calibers are rivetless.

Extractor Rivetless LA: works on all long action 700's and 7400's.

Extractor Riveted: Magnum calibers still use riveted extractors. I.e: ultra mag calibers.

Bolt: The bolt consists of:

Bolt body

Firing pin assembly

Bolt handle

Jeweling (available on some models laser etched on) (design on the bolt)

Last 4 numbers of the serial number (will match from the receiver)

Bolt assemblies are restricted and are factory installed only!

Safety: Our safety is a positive click safety. (We will not make it quieter!!) This is to ensure that you know that you have taken your firearm off of safety.

Trigger Assembly: All of the parts in the trigger assembly are restricted. We do not recommend any adjustments to the trigger screws. This will void the warranty on the trigger and can put the firearm in an unsafe condition. Factory specifications at the current time are no less than 4 ½ pounds (we will not go lighter due to liability issues)

Trigger Guard Screws: The ADL version has front, rear, and center guard screws. All other Model 700's have only front and rear trigger guard screws. Trigger guard screws on synthetic and wood are tightened to a hand tight fit. VS and Sendero trigger guard screws are tightened to no more than 45 inch pounds. Police trigger guard screws are to be tightened to no more than 45 inch pounds. Too much will crack the stock.

Reinforcement Screws: This screw helps with the strength of the stock, it keeps it from splitting. Long action and long action mags have 2; short action has 1. It will look like a black dot on the stock.

Recoil Lug: The recoil lug helps to direct the recoil into the stock, which lessens the amount of felt recoil. The lug is located in the barreled action.

Stocks: Stocks come with a butt plate or recoil pad on magnums and grip cap. Grip cap and fore end tip are epoxyed on. Our free floated stocks do not have pressure points,

700 Mountain stocks will interchange with the Titanium rifle.

Stocks that have cheek pieces:

ADL (wood and synthetic)

BDL (wood and synthetic)

Mountain

LSS

Stocks that do not have cheek pieces:

Classic

Sendero

Varmint

Police

Etronn

Model 7 SS

There are 2 types of Varmint stocks:

Synthetic: aramid fiber

Laminate wood: satin finish

(Laminate wood is the strongest stock made and is impervious to weather)

*We have made walnut stocks for Varmint, this has been discontinued.

Recoil pads on varmint and Sendero are epoxyed on. Consumers must take to a gunsmith to remove and replace. Remington does not perform this service.

Even older stocks 30 or 40 years old, you may notice that the recoil pad may look slightly smaller than the stock. This is where the wood has swollen. This is normal.

All custom shop wooden stocks are glass bedded by hand. They are truly free floated. Synthetic guns are glass (fiberglass) bedded too.

Synthetic 40 X's are aluminum bedded.

Swivel Studs: We make the swivel studs for our synthetic and wood stocks. If the consumer has a stock (this would be synthetic) manufactured by HS Precision. They will need to contact HS for the swivels.

Butt plates & recoil pads: All must be sanded to fit. Recoil pads are flat, butt plates are concave in order to interchange, the stock has to be altered. If there are 4 screws in the butt plate and the consumer wants another one like it they will have to contact an obsolete parts dealer, the new butt plates will work on older models. Sendero and Varmint butt plates are glued on.

Sights: The front sight including screws has 4 pieces; base, front sight, and 2 screws. The front sight is dovetailed in. This must be tapped out to the side to remove. Sometimes it will have a 5th piece, which is the hood. The back sight has 5 pieces: base, slide, and aperture, & 2 screws (windage and elevation). We do not sell stainless steel sights. On the parts list if says bright, this means unfinished. The sight would have to be brased on and then finished (the brazing process can hurt the finish on the sight.).

Model 700 misc.

We do not sell barrels, complete bolts, or actions. This is factory only!

New Model 700 with the ISS system. When the bolt is locked in engagement do not use the ISS system. This will cause the firing pin to bind and jam. Will have to be sent in to the factory for repair.

You cannot interchange centerfire calibers!

Every single bbl action is tested for accuracy at the factory.

Every receiver is cut from a single block of steel. We are the only manufacturer that does this.

You cannot change from the new style ISS system on a firearm to one that does not have it. The sear engagement is not the same and this would be dangerous.