

USER MANUAL

SCHULTZ & LARSEN



Long-Action Sporting Rifle Models

Hunter

Victory

Tactical

Short-Action Sporting Rifle Model

Legacy

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Introduction

Congratulations on your new Shultz & Larsen rifle made from top quality materials and manufactured with precision production techniques to give you a great shooting experience.

Schultz & Larsen barrels are manufactured using the cut-rifle method. Every barrel is produced from completely straight and stress relieved chrome molybdenum steel, carefully bored and cut rifled with the minimum stress on the steel. Cut-rifle barrel manufacturing process is state-of-the-art, the process itself is the oldest and slowest method of rifling a barrel. It's also the most accurate. The cutter removes approximately .0001 inch, or 1 ten-thousandth of an inch, at each pass, thus taking several hundred passes to rifle a barrel. This method produces almost perfect concentricity between bore and groove, a very uniform twist rate, and induces no stress into the steel. Every barrel is internally polished with an individually cast tin lap and grinding compound to produce perfect uniform smoothness.

Safety

We have made your rifle as safe as possible through good design and superior materials BUT ultimately safety is in the hands of the user. Please treat your rifle with care and respect. If you are not sure about any adjustments or repairs take your rifle to the shop you purchased it from.

Your Rifle 3-stage safety

Your rifle has a three-position safety. Lever fully to the rear blocks the operation of the firing pin and the bolt. The middle safety position blocks the operation of the firing pin but allows unloading of the rifle. Fully forward allows you to fire.

Do not touch the trigger whilst moving the safety. Do not intentionally pull the trigger whilst the safety is engaged. Remember no mechanical device is infallible. Maintain good gun manners.

The Switch Barrel System

Your rifle is designed as a modular system which allows the user to switch calibres by removing and inserting another barrel of the same calibre group. There are two Calibre groups - Standard and Magnum.

The long-action rifle models,

- Hunter.
- Victory
- Tactical

share a switch-barrel system that allows your rifle to shoot more than 20 different calibres. Each barrel can also be switched between each model (subject to the forend accommodating the barrel diameter). Please see the tables included at the rear of this manual for a list of barrel calibres.

***** PLEASE NOTE: *****

WHEN SWITCHING FROM STANDARD CALIBRE TO MAGNUM CALIBRE (and vice-versa) THE CORRESPONDING BOLT MUST ALSO BE SWITCHED. Use a Standard Bolt with a Standard calibre barrel and a Magnum bolt with a Magnum calibre barrel.

The short-action rifle model Legacy is a switch-barrel system but barrels can be switched only on a Legacy rifle. Please see the table included at the rear of this manual for a list of barrel calibres available for the Legacy rifle.

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The Bolt

Your rifle is shipped with the bolt removed. If you have both Magnum and Standard bolts because you have extra barrels in different calibres ensure that you are installing the correct bolt for that calibre. To identify which is a standard or a magnum bolt simply look at the bolt face and you will see that the recess is of a bigger diameter on the magnum than on the standard. Later bolts have a s or an m stamped on the front of one of the locking lugs.



To install the bolt:

Point the rifle in a safe direction and ensure the chamber is empty and either the magazine is removed or empty. Depress the bolt catch lever. Holding the rear of the bolt body insert the bolt into the rear of the receiver with the bolt handle in the 3 o'clock position on the right hand model (and 9 o'clock on the LHD model)

Push the bolt fully forward and release the bolt catch lever.

To remove the bolt from the rifle is the reverse of the above.

The Trigger

The Trigger is adjusted at the factory. All adjustments must be made by a qualified gunsmith.

The Magazine

The magazine is removed by firmly pressing the magazine release button, this is found just in front of the magazine. Removal is by pulling straight out. To reinstall the magazine place the magazine squarely into the magazine then gently but firmly continue to press the magazine into the well until the catch engages.

The magazine normally requires no servicing or adjustment. There are four different magazine types. They are marked at the back of the magazine with a letter denoting what calibres it can take. Please look at the table at the rear of this manual for more information.

Cleaning, Lubrication and Servicing

Proper cleaning and lubrication are important to ensure your rifle maintains its accuracy, safety and reliability. Only a qualified gunsmith should service or adjust your rifle. Normally all that is required to clean your rifle is wipe all metal surfaces with a soft, clean, lightly oiled cloth using a good quality gun oil. The stock can benefit from occasional rubbing in of a thin coat of linseed oil use your bare hand or a soft clean cloth to rub in. Take care not to get the linseed oil on the metal parts.

The Barrel

Schultz & Larsen barrels are of outstanding quality - we are very proud of the accuracy of our barrels.

Clean the barrel before first use. Be sure to patch dry before shooting. Clean after using the rifle or when you have been out in wet conditions with patches and good quality gun oil or Prolix. Clean from the chamber end to the muzzle. We do not recommend cleaning the bore with ammonia based solvents.

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To Change the Barrel (*Hunter Model only*)

1. First check the rifle is not loaded and remove the magazine. Remove the bolt.
2. Remove the magazine.
3. Using the supplied # 4 Allen key loosen the two (2) barrel clamping bolts via the two holes on the side of the forend (1/4 to 1/2 turn is sufficient) and pull the barrel



forwards to remove it from the receiver. (gently knocking the bolt rearwards against the bolt stop aids barrel removal if necessary).

**** DO NOT TIGHTEN THE BARREL SECURING SCREWS IF THE BARREL IS NOT IN PLACE. ****

4. Wipe any oil from the part of the barrel that sits inside the action. Do the same with the inside of the recess that the barrel fits into. Oil in this area will prevent the action tightening firmly around the barrel stub allowing the barrel to "float", thus spoiling accuracy.
5. Slide in the new barrel fully home with the locating slot at the six o'clock position.
6. Close the bolt **BEFORE** retightening the barrel clamping bolts (this sets the correct head-space).
7. **IMPORTANT:** Tighten the rear screw first. **DO NOT OVER-TIGHTEN.** The correct torque is 6 to 8 N/m. Most of you will not have a torque wrench in your pocket so proceed as follows: Tighten the rear screw gently until it stops. Nip it up no more than one eighth of a turn. Now tighten the front screw in the same way. Remember, the bolt locks into the barrel so the screws only need to be tight enough to align the barrel with the action. Whenever you remove and replace the barrel try to be consistent in the tightening as this will minimise any changes in point of impact. The more consistent you are tightening the barrel, the less the point of impact will move. You should expect the point of impact to move no more than 1 MOA, (about 1" at 100yds) or less.
8. Ensure that if you have changed from a standard calibre to a magnum calibre or vice-versa that you change the bolt as well and, if necessary, the magazine.

To Change the Barrel (*Victory, Tactical & Legacy Models requires removal of the receiver/barrel from the stock to switch barrels*)

1. First check the rifle is not loaded and remove the magazine. Remove the bolt.
2. Remove the two cross bolts located under the rifle at either end of the magazine well.



Location of the cross bolts

3. Lift the receiver with barrel out of the stock.
4. Using the supplied # 4 Allen key loosen the two (2) barrel clamping bolts ((1/4 to 1/2 turn is sufficient) and pull the barrel



a. Barrel clamping bolts

forwards to remove it from the receiver. (gently knocking the bolt rear-wards against the bolt stop aids barrel removal if necessary).

**** DO NOT TIGHTEN THE BARREL SECURING SCREWS IF THE BARREL IS NOT IN PLACE. ****

5. Slide in the new barrel fully home with the locating slot at the six o'clock position.
6. Close the bolt **BEFORE** retightening the barrel clamping bolts (this sets the correct head-space).
7. **IMPORTANT:** Tighten the rear screw first. **DO NOT OVER-TIGHTEN.** The correct torque is 6 to 8 N/m. Most of you will not have a torque wrench in your pocket so proceed as follows: Tighten the rear screw gently until it stops. Nip it up no more than one eighth of a turn. Now tighten the front screw in the same way. Remember, the bolt locks into the barrel so the screws only need to be tight enough to align the barrel with the action. Whenever you remove and replace the barrel try to be consistent in the tightening as this will minimise any changes in point of impact. The more consistent

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you are tightening the barrel, the less the point of impact will move. You should expect the point of impact to move no more than 1 MOA, (about 1" at 100yds) or less.

8. Ensure that if you have changed from a standard calibre to a magnum calibre or vice-versa that you change the bolt as well and, if necessary, the magazine.
9. Ensure that if you have changed from a standard calibre to a magnum calibre or vice-versa that you change the bolt as well and, if necessary, the magazine.

Scope Mounts:

With the exception of the Tactical model which has an integrated Picatinny rail all other Schultz and Larsen rifles allow up to three different scope mounting options.

1. Schultz & Larsen Slide and Lock.
2. Weaver two-piece rail.
3. Picatinny one piece rail.

Method For the Installing Schultz & Larsen Slide & Lock Scope Mounting System.

The Slide and Lock mounts are positioned on the rifle in either of the two positions, summer (towards the muzzle end) or winter (towards the buttstock end). Please ensure that both rings are in the same season setting position i.e. summer - summer or winter - winter and never tighten the cross bolts if not mounted on the rifle.

NB.: The Cross Bolt head for tightening the rings onto the rifle must be on the right hand side of the rifle.

Place the legs of the lower ring into the season setting positions then firmly slide the lower ring forward until the recoil lugs stop further forward movement by sitting snugly against the forward edge of the season setting positions. (Gently squeezing the top of the lower rings together helps. This is required until the scope is in place)

The locking cross bolts on each of the two mounts are then turned clockwise until tight using a number 3 socket head key. The scope is now placed onto the lower rings and the upper rings are now attached using the four screws supplied.

Method For Installing Weaver or Picatinny Scope Mounting System

The receiver is tapped to take a two-piece weaver rail or a one piece Picatinny rail. The rails may be installed with the screws supplied directly onto the receiver. Select fixed or QD rings to suit.

APPENDIX:

Standard Calibres: Hunter, Victory, Tactical

BARREL								
FOR SCHULTZ & LARSEN MODELS: HUNTER, VICTORY, TACTICAL.								
Caliber	Barrel Length in cm.	Barrel dia. in mm.	Thread	Twist Rate	Straight Fluted*	Spiral Fluted*	Octagonal*	Octagonal Fluted*
HUNTER, VICTORY, TACTICAL - STANDARD CALIBRES (REQUIRE STANDARD BOLT)								
.22-250	56	Ø16	M14X1	10"				
	60	Ø15	Without	10"				
	65	Ø17	Without	10"				
6XC	56	Ø16	M14X1	8"				
6mm BR	56	Ø16	M14X1	8"				
.243 Win	56	Ø16	M14X1	10"	x	x	x	x
	60	Ø15	Without	10"	x	x	x	x
.25-06	56	Ø16	M14X1	10"	x	x	x	x
	60	Ø17	M14X1	10"	x	x	x	x
6,5X47	56	Ø16	M14X1	210mm				
6,5X55 SE	56	Ø16	M14X1	210mm	x	x	x	x
	60	Ø15	Without	210mm	x	x	x	x
	65	Ø17	M14X1	210mm	x	x	x	x
	65	Ø19	M14X1	210mm	x	x	x	x
6,5-284	65	Ø17	M14X1	210mm	x	x	x	x
.270 Win	60	Ø15	M14x1	10"	x	x	x	x
	65	Ø17	M14x1	10"	x	x	x	x
7X57	56	Ø16	M14X1	10"	x	x	x	x
	60	Ø15	Without	10"	x	x	x	x
7X64	60	Ø15	Without	10"	x	x	x	x
	56	Ø16	M14X1	10"	x	x	x	x
.308 Win	60	Ø15	Without	10"	x	x	x	x
	65	Ø17	M14X1	10"	x	x	x	x
	65	Ø19	M14X1	10"	x	x	x	x
	56	Ø16	M14X1	10"	x	x	x	x
.30-06	60	Ø15	Without	10"	x	x	x	x
	65	Ø17	M14X1	10"	x	x	x	x
	65	Ø19	M14X1	10"				
8X57	56	Ø16	M14X1	10"	x	x	x	x
9.3X62	56	Ø16	M14X1	14"				

Magnum Calibres: Hunter, Victory, Tactical

BARREL								
FOR SCHULTZ & LARSEN MODELS: HUNTER, VICTORY, TACTICAL.								
Caliber	Barrel Length in cm.	Barrel dia. in mm.	Thread	Twist Rate	Straight Fluted*	Spiral Fluted*	Octagonal*	Octagonal Fluted*
HUNTER, VICTORY, TACTICAL - MAGNUM CALIBRES (REQUIRE MAGNUM BOLT)								
7mm Rem Mag	65	Ø17	M14X1	10"	x	x		
	65	Ø19	M14X1	10"				
.300 Win Mag	65	Ø16	M14X1	10"	x	x		
	65	Ø19	M14X1	10"				
.338 Win Mag	60	Ø16	Without	10"				
	65	Ø17	Without	10"				
.358 Norma Mag	60	Ø17	Without	12"				
.375 Ruger	65	Ø18	Without	12"				
.416 Taylor	65	Ø18	Without	14"				
.458 Win Mag	60	Ø20	Without	14"			OPEN SIGHT	

Long Range Calibres: Tactical (27mm for-end channel required)

BARREL								
FOR SCHULTZ & LARSEN MODELS: HUNTER, VICTORY, TACTICAL.								
Caliber	Barrel Length in cm.	Barrel dia. in mm.	Thread	Twist Rate	Straight Fluted*	Spiral Fluted*	Octagonal*	Octagonal Fluted*
LONG RANGE FOR SCHULTZ & LARSEN MODEL: TACTICAL.								
6,5-284	74	Ø27	M18 X	210mm				
6,5 X 55	74	Ø27	M18 X 1	210mm				
.308 Win	74	Ø27	Without	10"				
.30-06	74	Ø27	Without	10"				
.300 Win Mag	74	Ø27	Without	10"				

Mini Calibres: Legacy

BARREL								
Caliber	Barrel Length in cm.	Barrel dia. in mm.	Thread	Twist Rate	Straight Fluted*	Spiral Fluted*	Octagonal*	Octagonal Fluted*
FOR SCHULTZ & LARSEN MODEL: LEGACY								
<i>.222 Rem</i>	56	Ø14	Unf-20	10"				
	56	Ø18	M14X1	10"				
<i>.223</i>	56	Ø14	Unf-20	8"				
	56	Ø18	M14X1	8"				
	56	Ø14	Unf-20	10"				
<i>6x45</i>	56	Ø18	M14X1	10"				
	56	Ø18	M14X1	8"				
<i>.300 Blackout</i>	45	Ø18	M14X1	7 1/2"				

Magazine by Calibres:

Calibres Standard Standard Bolt Required)	
.22-250 (K)	6mm XC (1 Skud)
.243 Win (K)	.25-06 (L)
6.5x47 Lapua (K)	6.5x55 SE (L)
6.5-284 (M)	.270 Win (L)
7x57 (L)	7x64 (L)
7mm-08 (K)	.308 Win (K)
.30-06 (L)	.338-06 (L)
8 x 57 JS (L)	9.3x62 (L)
Calibres Magnum (Magnum Bolt Required)	
7mm Rem Mag (M)	.300 Win Mag (M)
.300 WSM (KM)	.270 WSM (KM)
.338 Win Mag (KM)	.358 Norma Mag (M)
Calibres Safari	
.375 Ruger (M)	.416 Taylor (M)
.458 Win Mag (M)	

(K=Standard, L=Long, M=Magnum, KM=Short Magnum)