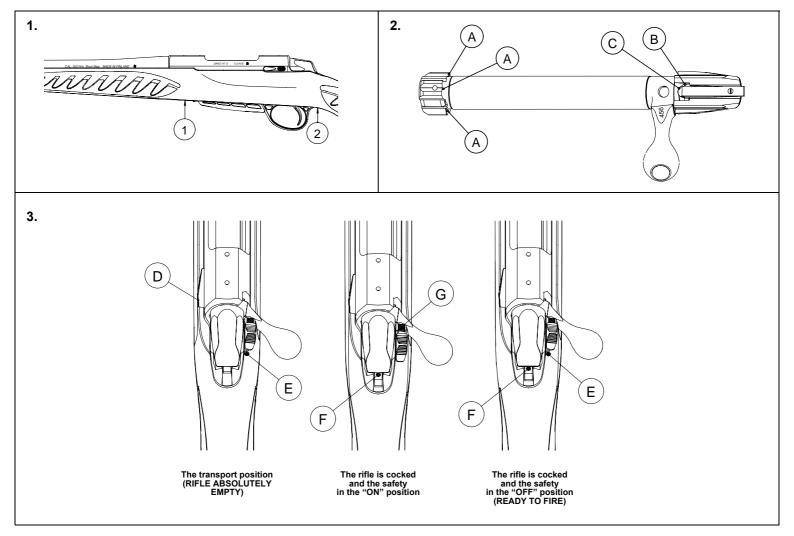
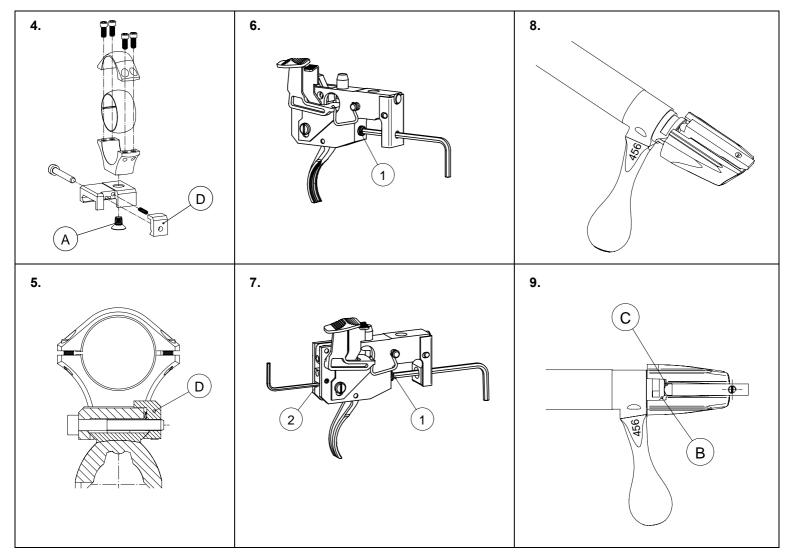


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# SAKO A7 RH



Moa.	Cal.	
	SAKO A7 / S	SAKO A7 / M
Synthetic	22-250 Rem	25-06 Rem
Synthetic Stainless	243 Win	270 Win
	7mm-08 Rem	30-06
	308 Win	7 mm Rem Mag
	338 Federal	300 Win Mag
	270 Win Short Mag	
	300 Win Short Mag	
	· ·	

### SAKO A7 RH OWNER'S MANUAL

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#### HANDLING THE RIFLE

Prior to handling the rifle, familiarize yourself with all safety instructions presented in this manual.

Always, when you pick up the rifle, open the bolt to check that it is unloaded. Always keep the muzzle of the barrel pointed in a safe direction, even when the rifle is unloaded. All firearms, even unloaded ones, should be handled carefully. Keep in mind that most accidents happen with guns that were believed to be unloaded.

WARNING! Don't shoot unless you are absolutely sure of your target and what is beyond it. Remember that a bullet from this rifle can cause serious injury or damage even at a distance of 8 kilometers (5 miles).

#### **IDENTIFICATION**

You will find the model and serial number of the rifle stamped on the side of the receiver (Fig. 1), while the caliber is shown on the side of the barrel. **CAUTION!** Make sure you have ammunition of the correct caliber for your rifle. **Use only high quality, factory manufactured ammunition.** The bolt of your rifle is packed separately in the carton. The bolt has been carefully fitted by the factory to ensure the correct headspace. For safety reasons, do not interchange your bolt with a bolt from another rifle. To prevent mistakes, the three last digits of the rifle's serial number have been etched on the bolt (Fig. 2).

#### **STORAGE**

Always store your firearm absolutely unloaded in a secure, dry place, where it will not be damaged and where children and unauthorized persons cannot gain access to it. (Note! Rules depend on country.)

Also, keep cartridges stored separately in a secure place.

#### GENERAL INFORMATION

The new generation SAKO Model A7 was developed to incorporate modern manufacturing technology while maintaining SAKO's tradition: genuine traditional craftsmanship. Special attention is paid to safety and reliability. All SAKO A7 rifles feature a safety mechanism that allows loading and unloading the rifle with the safety engaged. Additionally all models have a magazine release safety mechanism that prevents magazine releasing accidentally. Ejection is achieved through the use of a springloaded plunger ejector. All models are supplied with detachable clip magazine. Round top receiver is tapped to receive standard (Weaver) scope mount bases. The range also includes all-weather model made of stainless steel.

#### MAINTENANCE BEFORE USE

Before using your new rifle, remove the storage lubricant that is put on each rifle before it leaves the factory.

- Clean excess oil from the bolt and breech area in the action.

- Clean the excess oil from the chamber. Then remove the oil from the bore by pushing a dry patch through the barrel, from the breech end to the muzzle.
- Check the recessed bolt face and locking lugs (marked A) for excess oil. Make sure that all areas (A C) are lightly lubricated.
- Check the tightness of the fastening screws 1 and 2 (Fig. 1) with Nr 25 Torx key included with the rifle .
- To check the fit between the stock and the free floating barrel, a slip of paper roughly 0.5 mm thick should fit easily between the barrel and the stock over the whole length of the barrel.
- Insert the bolt into the receiver and cycle it to confirm that the action is working properly.
- The bolt is released from the rifle by pulling the bolt backwards and simultaneously pressing the bolt release button (D in Fig. 3).

After completing the check-list above, your rifle is now ready for test firing. However, if a telescopic sight is to be used, attach the mounts and scope prior to test firing.

To obtain the best results with your SAKO, be sure to use only high quality steel bases and rings manufactured to fit Sako dovetail receiver and quality scope.

NOTE! If, after reading this manual, you have any questions about the maintenance, operation or use of your rifle, consult your dealer. Before using the firearm, you must thoroughly familiarize yourself with its use and operation, and with safe firearm handling in general.

#### **OPERATION**

CAUTION! Never load the rifle until you are ready to begin shooting. Always unload the rifle as soon as you have finished shooting. Never cross a fence, climb a tree or jump a ditch with a loaded firearm. WARNING! Always make sure the barrel is free of all obstructions before chambering a cartridge. Firing with an obstructed barrel may cause serious injury.

- Loading is performed in the usual manner for a bolt-action rifle. The action is opened by first raising the bolt handle and then pulling the bolt back. As the bolt is pushed forward, the cartridge is fed into the chamber, and by rotating the handle downward the action is closed and the rifle is cocked.

- The safety is, in principle, the usual on/off type. When engaged (rearward position), the safety also locks the bolt handle in the closed position. In the forward position the safety is "Off", which is indicated by the red warning dot (E). If the rifle is cocked, the red cocking indicator (F) is visible behind the bolt shroud. The rifle is then READY TO FIRE.

For safety reasons, the safety is provided with a button (G) that you can push to open the bolt, for example, to load or unload the rifle while the safety is engaged.

ĆAUTIŎN! The manual safety is to minimize the potential for firing in the event of an unintentional pulling of the trigger. The manual safety and the gun's other safety features provide only partial protection against firing from other causes. The safety is only a mechanical device. It is not substitute for safe firearm handling.

# MOUNTING AND USING THE ORIGINAL SAKO OPTILOCK SCOPE MOUNTS

CAUTION: Ensure that the firearm is unloaded before fitting the scope mount. Use safe firearm handling procedures at all times.

Original SAKO-OPTILOCK scope mounts for standard (Weaver) base rails are supplied rings and bases in separate packages. All necessary tools are included in the pack.

NOTE! The riffe is delivered with aluminium standard (Weaver) base rails on the top of the receiver. For heavy use they should be replaced with steel bases that are available from many manufacturers. When assembling standard base rails follow instructions of their manufacturers.

#### **HOW TO FIT THE RING TO THE BASE (Fig. 4)**

Tighten screw (A) with an 3 mm Allen key so that the front surface of the base is parallel with the ring base.

#### FITTING MOUNTS TO THE RIFLE

The base is mounted on the standard (Weaver) base rails assembled on the receiver with a wedge shaped locking piece (D), as shown in Fig. 5. Attachment of the base screws should be on the left side of the rifle and should be tightened relatively firmly, with an 3 mm Allen key included in the box, to hold the scope correctly in position. Do not overtighten.

#### FITTING SCOPE TO THE MOUNTS

Loosen the rings crews. Carefully fit the insert ring around the scope tube. Position the scope in the mounts, so that the insert rings fit the ring bases, and the distance of the ocular bell is sufficient from the eye (face) of the shooter. Position the cut at the insert ring in a horizontal position. Refit the ring tops and tighten the ring screws finger-tight, give the final check for the eye relief and the reticle position (upright), and tighten the ring tops evenly with an 2.5 mm Allen key provided.

#### REMOVAL OF THE SCOPE FROM THE RIFLE

Loosen the base screws to loosen locking piece (D) and remove the scope.

#### HOW TO REFIT THE SCOPE TO THE RIFLE

Put the scope into position. Tighten the base screws firmly with the Allen key provided. Do not over tighten.

#### ZEROING IN THE SCOPED RIFLE

When the scope has been securely mounted, the rifle should be sighted in with the cartridges you will be using. Notice that trajectory tables for cartridges are usable only, when the rifle is sighted-in as directed in the tables. Notice also, that differences between two different loads from the same rifle do not necessarily follow differences in the trajectory tables. That's why the rifle should always be sighted-in with a load that you are going to use.

To start sighting in procedure, place the rifle solidly on the some kind of bench rest or other support, and remove the bolt. Look at the target through the bore at about 25 - 30 m (27 - 33 yards) distance. Then look, without moving the rifle, through the scope, and adjust windage and elevation so that reticle centers on target. (The same thing can be achieved also with a proprietary bore-sighter, which can be used to check the alignment of the bore and the scope.)

After this preliminary bore-sighting, it is then time to proceed to final sighting-in by shooting at 100 or 150 m (100 or 150 yards) distance. The best way is to shoot from a good bench rest, supporting the rifle on, for example, sandbags either under the fore-end, or under both the fore-end and the stock. Never support your rifle under the barrel, or shoot by using a solid support, as grouping can be dramatically affected.

Otherwise, follow adjustment directions given in Instruction Manual of telescopic sight to be used.

#### MAGAZINE

All SAKO Model A7 rifles are supplied with a detachable clip magazine. The magazine release is provided with a safety meachanism which prevents magazine being released accidentally. The magazine is released by pressing upwards on the front of the magazine base plate, while simultaneously pulling the magazine release backwards.

#### **AMMUNITION**

CAUTION! Make sure you have the correct caliber ammunition for this firearm. Use only high quality, factory-loaded ammunition. The use of reloaded, hand-loaded, remanufactured or other non-standard ammunition voids all warranties, and may cause severe damage to the firearm and serious injury to the shooter or others. Improperly loaded ammunition can be extremely dangerous. Always use ammunition that complies with Industry Performance Standards established by the Sporting Arms and Ammunition Manufacturers Institute, Inc. (SAAMI) or Commission Internationale Permanente pour l'Epreuve des Armes à Feu portatives (C.I.P.)

Do not use cartridges that are dirty, wet, corroded, dented or damaged. Do not oil cartridges. Any of these things can make the ammunition dangerous, and can cause damage to the firearm or injury to the shooter.

#### LOADING THE MAGAZINE

The magazine can be loaded by pressing the cartridge down into the magazine, when the bolt is in the open position. The detachable magazine can also be loaded while it is separated from the rifle.

CAUTION! Engaging the safety catch before closing the bolt is the safest method of handling the rifle.

#### REMOVING THE CARTRIDGES FROM THE RIFLE

For safety reasons, the safety should always be in the "ON" position when removing cartridges from the rifle. The magazine is removed by pressing upwards on the front of the magazine base plate, while simultaneously pulling the magazine release backwards. The release button is located in front of the magazine and allows the magazine to drop into your hand, when depressed with the forefinger. The magazine can then be unloaded, or transported as loaded.

A cartridge can be removed from the chamber, with the safety still engaged, by pressing the bolt handle release button and opening the bolt, in which case the ejector will remove a cartridge from the receiver.

#### STANDARD TRIGGER MECHANISM

- The trigger has no first pull and the trigger pressure is set at the factory to approx. 15 Newtons (3 lbs).
- Both the sear engagement and safety are set at the factory and need no adjustment of any kind. CAUTION! The sear engagement, safety and other components of the trigger are precision mechanisms, which were properly adjusted at the factory. They should not be altered, modified or changed. Modifications to the firearm may decrease its safety and increase the risk of serious injury.
- Should you wish to alter the trigger pressure, the safest way is to detach the stock first. To do this, remove the trigger guard fastening screws.

#### TRIGGER ADJUSTMENT (Fig. 6)

- The trigger pull can be adjusted with an 2.5 mm Allen key from 10 to 20 Newtons (2 to 4 lbs) with the screw 1.
- Turning the screw clockwise will increase the pressure. Turning the screw counterclockwise will reduce the pressure.

WARNING! FOR SAFETY REASONS DO NOT ATTEMPT TO REDUCE TRIGGER PRESSURE BELOW 10 NEWTONS (2 LBS).

#### SINGLE-SET TRIGGER MECHANISM

For use as a normal single-stage trigger, squeeze rearwards in the normal fashion. The trigger mechanism can also be "SET" by pushing the trigger forward until it stops. The rifle can now be fired with a very light pressure on the trigger. WARNING! WHEN THE TRIGGER IS IN THE "SET" POSITION, THE RIFLE MUST BE HANDLED WITH EXTREME CARE, AS ANY SHOCK OR VIBRATION CAN DISCHARGE THE RIFLE.

To return trigger to the "UNSET" position, the safest method is to engage the safety catch or open the bolt. If the rifle is cocked, with the safety catch on, the trigger CANNOT be put into the "SET" position. NOTE! When the safety catch is in the "ON" position, it locks the trigger mechanism and the bolt. The rifle can be cocked only by pressing the bolt handle release button, located in front of the safety catch, and by opening the bolt to cock the mechanism.

#### TRIGGER ADJUSTMENT (Fig. 7)

Should you wish to alter the trigger pressure, the safest way is to detach the stock first. To do this, remove the trigger guard fastening screws. Trigger pressure can also be adjusted, with a proper tool, through the magazine opening, as shown in Fig. 6. The trigger mechanism is constructed for 10 - 20 Newtons (2 - 4 lbs) trigger weight in the single-stage position. The trigger weight is adjusted to 13 - 15 Newtons (3 lbs) at the factory. To be sure that the single-set trigger operates correctly in all circumstances, the trigger weight should not be increased. The trigger weight can be adjusted by the means of screw (1) with an 2.5 mm Allen key. Turning the screw clockwise will increase the trigger weight. NOTE! Screw (1) is self-locking and requires a proper tool.

#### **SET-TRIGGER ADJUSTMENT (Fig. 7)**

When the trigger is in the "SET" position, the trigger weight is 2 - 2.5 Newtons (7 - 9 oz.) and cannot be adjusted. The screw (2) adjusts the gap between the trigger and the plunger of the trigger weight spring. This gap feels as creep in the unset stage and should be as small as possible. Preferably the screw should lightly touch the plunger. On the other hand, if the pressure between the screw (2) and the plunger is too heavy, it may prevent the set-trigger from working. NOTE! Screw (2) is self-locking and unnecessary adjustments should be avoided to keep the self-locking device in good condition.

#### SAFETY ADJUSTMENT

The safety is permanently adjusted at the factory. However, if the trigger, trigger sear or safety lever has to be changed, the safety must be re-adjusted. For this operation the trigger mechanism must be returned to the factory in Finland.

#### **BOLT DISASSEMBLY AND REASSEMBLY**

It is not generally necessary to disassemble the bolt. But, in case too much oil has accumulated inside the bolt, which can cause stiffness or misfires, it should be cleaned. If you intend to use the firearm in cold weather, removal of excess oil in the bolt is particularly important.

Having removed the bolt from the firearm, the firing pin assembly is removed by turning the bolt shroud clockwise until its locking notches are disengaged from the bolt body and the bolt shroud springs backwards. Having done this, the bolt shroud and firing pin assembly, with the spring and spring guide, can be removed from the bolt. Normally it is not necessary to disassemble the bolt any further for cleaning purposes.

Having cleaned the bolt, reverse the order to reassemble. First insert the firing pin assembly, with the spring and spring guide, into place with the bolt shroud so, that cocking piece is on the opposite side of the bolt handle and the locking notches of the bolt shroud are fitted into position at the rear end of the bolt body (Fig. 8).

The bolt shroud is then pushed against the bolt, and simultaneously turned counter-clockwise, until the cocking piece cam stops in the notch (C in Fig. 9) before the cocking slope (B).

#### **CLEANING AFTER USE**

Before commencing cleaning, check that all cartridges have been removed both from the magazine and the chamber. Remove the bolt and push an oily cleaning cloth through the bore. After this the rifle can be stored in this condition for some time.

Clean the bolt, as well as the other external metal parts lightly with an oily cloth. Maintenance should not be neglected even in case of the "All-weather" or "Stainless" models, as the steel may still corrode.

#### **CLEANING THE BARREL**

The following procedure should be used when cleaning the barrel:

- Always push the cleaning/oiling patch from the breech end.
- Do not scrub the barrel, simply push the patch through the barrel and out through the muzzle. Repeat as necessary.
- Use only absolutely straight, sturdy and smooth cleaning rods.
- It is also advisable to occasionally remove copper fouling from the barrel. This looks like copper from bullet jacket when the front part of the bore is examined. There are various solvents and mechanical cleaners for this purpose, and we recommend that the instructions given by their manufacturers, are followed. Badly fouled barrels can shoot inaccurately and will corrode much easier than carefully cleaned ones.
- After thorough cleaning, the barrel should be lightly oiled.

#### MAINTENANCE OF THE STOCK

The synthetic stock of the "All-weather" models do not need any special maintenance.

By following the few simple maintenance procedures listed below, Sako rifles will provide a lifetime of service:

- Use only the best quality SAKO gun oil (or comparable oil), which cleans, protects and lubricates
- Corrosion can begin within 24 hours if the rifle is not cleaned after firing. This is especially true in damp conditions.
- At least once a year, check the tightness of all screws including stock and trigger guard screws.
- 4. Stop shooting immediately, and take the rifle to an authorized gunsmith or ship to the manufacturer/importer if any changes in the functioning of your firearm are noticed. For example:
  - the functioning of the trigger mechanism has changed.
  - the rifle does not fire the cartridge (misfires).
  - the safety catch does not operate.
  - there is any cartridge malfunction, such as escaping gas, a punctured primer, a bulged or ruptured case or a different sound when firing.
- CAUTION! In the case of misfire point the rifle in safe direction and wait 30 seconds before opening the bolt. The bolt should be opened with extreme care.
- 5. Use only original factory spare parts.
- When loosening or tightening screws, ensure that the screwdriver is of appropriate size and shape. Poor tools will damage the screw-heads and the general appearance of the rifle.

- 7. If the rifle is damaged while shooting, send your rifle to the dealer/importer and include:
  - an explanation of what has happened.
  - the cartridge case (with which the damage occurred).
  - preferably a sample of unfired cartridges.
- In these circumstances do not dismantle the rifle. **Do not,** ever send a loaded firearm.
- 8. Damage to rifles occurs almost exclusively when using hand-loaded cartridges.
- CAUTION! Make sure you have the correct caliber ammunition for this rifle. Use only high quality, factory manufactured ammunition. The use of reloaded, hand-loaded, remanufactured or other non-standard ammunition voids all warranties, and may cause severe damage to the firearm and serious injury to the shooter or others. Improperly loaded ammunition can be extremely dangerous. Always use ammunition that complies with industry performance standards established by the Sporting Arms and Ammunition Manufacturers Institute, Inc. (SAAMI) or Commission Internationale Permanente pour l'Epreuve des Armes à Feu portatives (C.I.P.)
- If you intend to load your own cartridges, make absolutely sure that you are using the correct charge and type of powder.
- SAKO Ltd. does not accept any liability for any damage or injuries caused by reloaded/hand-loaded or otherwise improper ammunition.
- Wear adequate eye and ear protection whenever you shoot, and make sure that persons close to you are similarly protected.
- Keep this manual, and review it periodically. If you sell or transfer the rifle, make sure the manual goes with it.

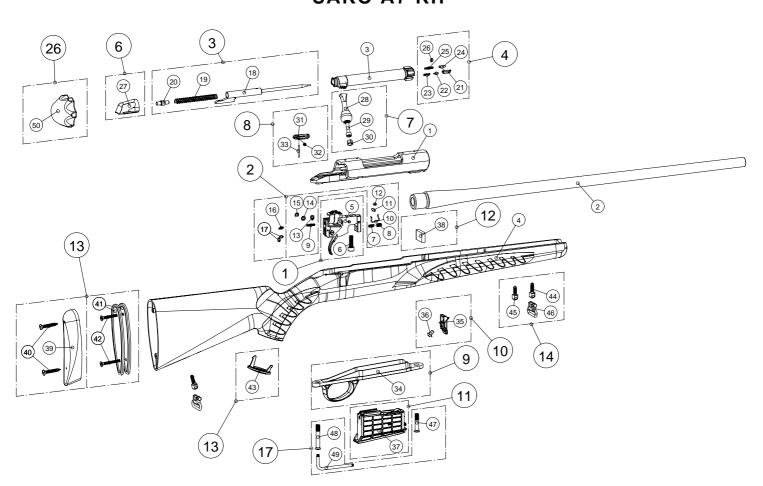
#### **PATENTS**

The magazine release safety locking and magazine design are protected by patents.

# **TECHNICAL DATA**

Caliber and rate of tw	vist	Weight			
A7 / S 22-250 Rem 243 Win 7mm-08 Rem 308 Win 338 Federal 270 Win Short Mag 300 Win Short Mag A7 / M	14" 10" 9.5" 11" 10" 10"	A7/S SYN/SYN S/S A7/S SYN/SYN S/S WSM A7/M SYN/SYN S/S A7/M SYN/SYN S/S Mag Overall length A7/S A7/S WSM A7/M A7/M Mag Barrel length	2.8 kg (6 3/16 lbs) 2.9 kg (6 3/8 lbs) 2.8 kg (6 3/16 lbs) 2.9 kg (6 3/8 lbs) 1075 mm (42 5/16") 1125 mm (44 5/16" 1085 mm (42 3/4") 1135 mm (44 11/16")		
270 Win 30-06 7mm Rem Mag 300 Win Mag	10" 11" 9.5" 11"	A7/S / M A7/S WSM / M Mag Cartridge capacity	570 mm (22 7/16") 620 mm (24 3/8") chamber and 3 in magazine)		

# SAKO A7 RH



Original SAKO spare parts are available in sets, containing all common parts which are probably needed in repairing a certain unit. Some sets can also include optional parts for different models.

When spare parts are ordered, the article number (spare part code beginning S) of the Part or Part Set required should be used to describe the correct option. The serial numbers (1, 2 ...) are only used to make it easier to find a part in the exploded drawing.

### SAKO A7 RH SPARE PARTS

Spare- Key Description Art.no. no. no.

# SAKO A7 RH SPARE PARTS

SAN	$\mathbf{o}$	A/ KH SPAKE PAR	(15
Spare-	Kev	Description	Art.no.
art set	no.	·	
no.			
	4	Stock complete A7/S RH Synthetic S/S	S2C30699
	4	Stock complete A7/M RH Synthetic S/S	S2C40699
1		Trigger mechanism complete A7	S5A60110
	5	Trigger mechanism	
	6	Fastening screw M6x20	
1		Trigger mechanism complete A7 S/S	S5AR0110
	5	Trigger mechanism S/S	
	6	Fastening screw M6x20	
1		Set trigger mechanism complete A7	S5A60113
	5	Trigger mechanism	
	6	Fastening screw M6x20	
1		Set trigger mech. complete A7 S/S	S5AR0113
	5	Trigger mechanism S/S	
	6	Fastening screw M6x20	
2		Spare parts for trigger A7	S584S210
	7	Trigger spring	
	8	Trigger spring set screw M5x10	
	9	Trigger sear spring	
	10	Safety lever spring	
	11	Safety silencer M90	
	12	Safety silencer M75/M85/A7	
	13	Snap ring D4	
	14	Washer	
	15	Snap ring D3.5	
2		Spare parts for set trigger mechanism	S584S220
	16	Set trigger spring	
	17	Set trigger set screw M3x6 2 pcs	
3		Firing pin A7 S S/S complete	S5AR0155
	18	Firing pin assembly A7 S S/S	
	19	Firing pin spring	
	20	Firing pin spring guide	
3		Firing pin A7 M S/S complete	S5AR0160
	18	Firing pin assembly A7 M S/S	
	19	Firing pin spring	
	20	Firing pin spring guide	

SAK	0 /	A7 RH SPARE PAF	RTS	SAK	0	A7 RH SPAI	RE PA	RTS
Spare-	Key	Description	Art.no.	Spare-	Key	Description		Art.no.
part set	no.			part set	no.			
no.				no.				
4		Spare parts for bolt A7	S5850240	11	37	Clip magazine A7/S 308	DM	S5C60384
	21	Extractor		11	37	Clip magazine A7/S 22-2	50 DM	S5C60385
	22	Extractor plunger		11	37	Clip magazine A7/S WSI	M DM	S5C60382
	23 24	Extractor spring		11	37	Clip magazine A7/M 30-0	06 DM	S5C60386
	24	Ejector		11	37	Clip magazine A7/M 300	WIN DM	S5C60387
	25 26	Ejector spring		11	37	Clip magazine A7/M 7MM	MRM DM	S5C60389
	26	Pin 2.5x6		12		Recoil block A7		S5850299
6 7	27	Bolt shroud A7 RH	S5C60244		38	Recoil block		
7		Bolt handle A7 RH S/S complete	S5CR0245	13		Recoil pad complete A7	Synthetic	S596S296
	28	Bolt handle RH S/S			39	Recoil pad black	•	
	29	Fastening screw M5x35			40	Mounting screw 4.8x32	2 pcs	
	30	Cover plug		13		Straight butt spacers	•	S585T420
8		Bolt release A7 complete	S5A60250		41	Straight butt spacer	2 pcs	
	31	Bolt release			42	Mounting screw 4.5x45	2 pcs	
	32	Bolt release spring		13		Pistol grip cap A7 Synth		S5CR0292
	33	Bolt release pin			43	Pistol grip cap Synthetic		
8		Bolt release A7 complete S/S	S5AR0250	14		Swivels S/S		S59RS297
	31	Bolt release S/S			44	Swivel screw S/S	2 pcs	
	32	Bolt release spring			45	Swivel screw front S/S	- 6	
	33	Bolt release pin			46	Swivel S/S	2 pcs	
9	34	Trigger guard assembly A7/S DM	S5C60180	17		Trigger guard fasten. sc		S5AR0265
9	34	Trigger guard assembly A7/M DM	S5C60185		47	Front fastening screw S/S		
10		Magazine release complete A7 DM S/S	S5AR0260		48	Rear fastening screw S/S		
-	35	Magazine release assembly S/S			49	Torx key		
	36	Fastening screw M5x8		26	50	Cocking wrench A7		S5C60900

# INSPECTION CERTIFICATE MOD. 53 CAL. S/N 23 5353 Inspection Inspected according to the rules of international organisation C.I.P. **2 YEARS GUARANTEE** The product is guaranteed against possible defects in material or workmanship. 67 In case of defect, please send the gun together with this guarantee card to the 23 seller. Buyer Seller Purchase date

Address: Sako Ltd., P.O. Box 149, FIN-11101 Riihimäki, Finland