



Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Roedale Chassis System RCS II Tikka T3 Instillation Guide

Thankyou for purchasing the Roedale RCS II T3. Please make sure you read and understand these instructions BEFORE attempting to install the RCS II stock onto your Tikka T3 Rifle. We would like to remind you, that this product is an upgrade designed only for firearms in good serviceable condition.

If you are unsure about any of the following steps, please seek the advice and services of a qualified Gunsmith

SAFETY PRECAUTIONS:

When handling any Firearm, for your own safety and the safety of others, always follow the manufacturers safety instructions.

These should include:

- **Stand behind the rifle**
- **Make sure the rifle is pointing in a safe direction**
- **Ensure that there are NO rounds in the chamber or magazine**
- **Remove the magazine if fitted and ensure that the rifle is unloaded and is in a safe condition to handle**
- **Remove the rifle bolt as per manufacturers instructions**

Fitting of the RCS II to your Tikka T3 rifle

Step 1 - Removing the original Tikka T3 stock and magazine system:

- We recommend you remove any attachments and ancillaries before commencing
- Unscrew the 2 original action bolts as shown
- Remove the stock from the barreled action by pulling downwards on the original T3 rifle stock and upwards on the barreled action, this should separate them



The original T3 action bolts and recoil lug are not required for use in the RCS II chassis



Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Fitting of the Tikka T3 to the RCS II chassis requires the removal of the magazine tensioning spring clip

Step 2 - Removing the magazine tensioning spring clip:

- Unscrew the M6 trigger locating bolt and remove it from the trigger housing
- Remove the magazine tensioning spring clip
- Replace the M6 trigger locating bolt and re tighten



Trigger locating bolt torque: 45in/lb/f or 5.1Nm



Inh. Pete Lincoln
 Jahn Str 23
 D49205 Hasbergen Germany
 Tel: +49-5405-606520
 Fax: +49-5405-606530
 Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Tikka T3 and AICS type magazine function – differences to standard Tikka T3 M size magazines:

Tikka T3 rifles use 3 sizes of magazine (S, M & L) and 2 sizes of bolt stop (1 & 2)to accommodate for different calibers. The magazines are shortened internally or blocked at the rear according to the OAL cartridge length defined as sufficient by Tikka engineers. The 2 different bolt stops arrest the rearward travel of the rifle bolt at the desired position.

This is however not optimised for many of the longer projectiles used by handloaders and manufacturers of premium ammunition. Many T3 owners select to use the internally longer L size magazines and replace or modify the shorter size 2 bolt stop to gain longer OAL.

AICS type magazines have proven to be the most popular short caliber type magazine available and as such are in use with a multitude of firearms.

For this reason we have chosen the AICS type magazine for use in the RCS II short caliber stock.

To ensure maximum performance with the AICS type magazine, we have positioned the magazine in the chassis to allow for maximum allowable cartridge OAL and optimum reliability of cartridge feed. This means that the rounds in an AICS type magazine are set slightly further back than rounds in the standard M or S size T3 plastic magazines.

Standard stop position for Tikka size M and size S magazines when used with the size 2 bolt stop:





Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Modified stop position for Tikka size L magazines when used with the 1 size bolt stop and for use with the RCS II and AICS type magazines:



The 2 size bolt stop fitted to Tikka T3 rifles in calibers such as .223 Rem or .308Win / WSM must be modified or replaced to ensure that the bolt stops at the correct position. (the same position used by T3's using L size Tikka magazines and size 1 bolt stops)

The required modification is very simple. Should you however not wish to carry out the modification, it is possible to purchase the correct T3 bolt stop from your nearest Tikka/Beretta dealer or purchase a custom manufactured bolt stop directly from Roedale

Please note that the Roedale RCS II T3 Long Caliber stock does not use AICS magazines and as such the modification or replacement of the bolt stop is not necessary.



Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

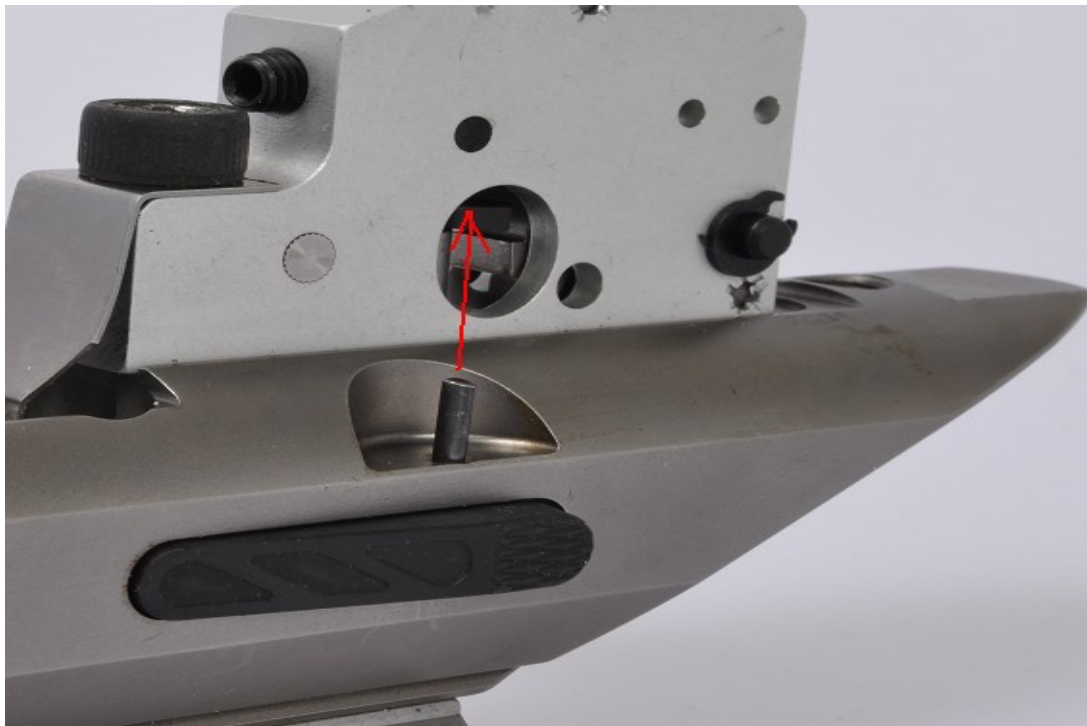
Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Removal & Modification and Replacement of the T3 bolt stop:

Step 3 - Bolt Stop Removal:

- Pull the bolt stop axis pin from its location (this is usually possible with 2 fingers, if it is tight use pliers)
- Remove bolt stop and bolt stop spring from the rifle action ensuring you do not loose the spring



Removing or replacing the bolt stop is simpler if the bolt is fitted, this prevents the bolt stop from misaligning and the spring from falling into the action. Once you have checked the rifle is safe, it is permissible to refit the rifle bolt in to the action raceway.



Inh. Pete Lincoln
 Jahn Str 23
 D49205 Hasbergen Germany
 Tel: +49-5405-606520
 Fax: +49-5405-606530
 Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Standard size 2 bolt stop:



Step 4 - Modification of the T3 size 2 bolt stop:

- Using hand tools (file) or machine tools (mill), remove the required amount of material from the bolt stop as shown

Modified bolt stop:



The silver coloured area indicates the removed material. Preferably this area should be touched up with instant blue or coated

Step 5 - Refitting the modified (or replacement) bolt stop:

- Re-fitting is simply the reversal of Step 3.
- We recommend placing any removed parts in a safe location should you require them at any time in the future.

Your Tikka T3 is now ready for fitting to the RCS II Chassis System



Inh. Pete Lincoln
 Jahn Str 23
 D49205 Hasbergen Germany
 Tel: +49-5405-606520
 Fax: +49-5405-606530
 Email: info@roedale.de

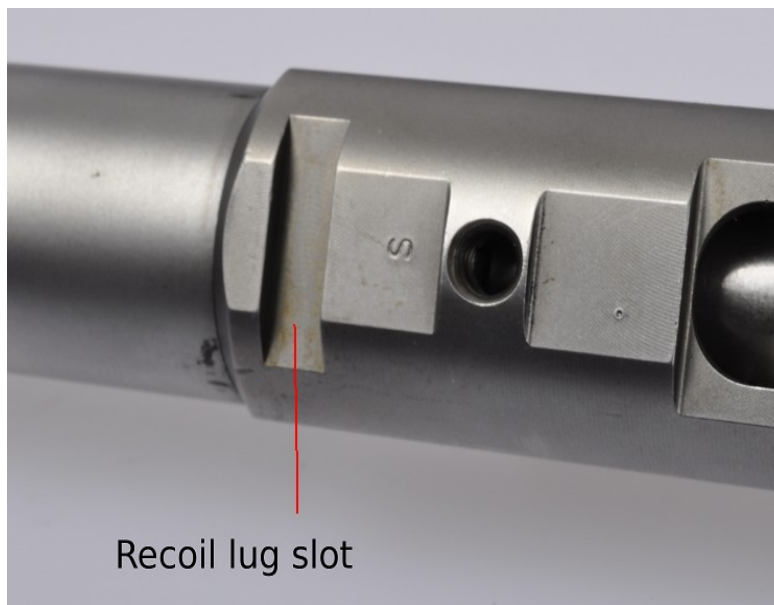
Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

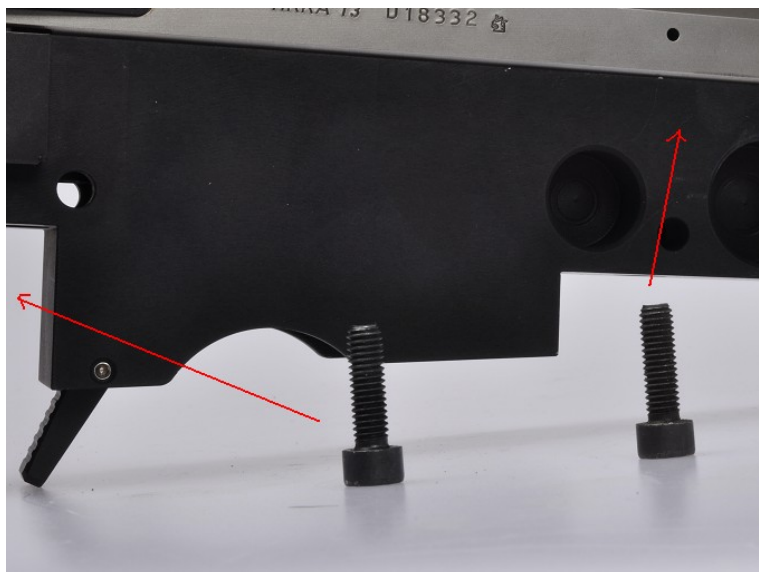
Fitting the T3 Barreled action into the RCS II Chassis

Step 6 – Fit the T3 barreled action to the RCS II chassis as follows:

- Offer up the T3 barreled action to the chassis
- Locate the recoil lug slot in the T3 action over the recoil lug in the chassis



- Insert the 2 M6 action bolts (supplied) into the corresponding holes in the chassis and with a size 5 metric allen wrench, screw in the bolts
- Pull the barreled action rearwards to ensure location and tighten the M6 action bolts to 65in/lb/f or 7.3Nm





Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Check for correct function of trigger and safety catch and that the Tikka T3 barreled action is satisfactorily fitted to the RCS II chassis

Fitting the stock furniture to the chassis

Step 7 – Fit the stock furniture to the RCS II chassis as follows:

- Place the polymer rear left and right sides onto the chassis
- Place the polymer front left and right sides onto the chassis
- Insert the side panel cross bolts into their respective holes
- With the allen wrench provided tighten the cross bolts and check torque (7.1in/lb/f or 0.8Nm)
- Fit the rubberised pistol grip strap and fasten with screws provided (gently & hand tight)





Inh. Pete Lincoln
 Jahn Str 23
 D49205 Hasbergen Germany
 Tel: +49-5405-606520
 Fax: +49-5405-606530
 Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Step 8: Fit the butt pad assembly & rear sling loop:

- Insert the M5 bolts through the butt pad and the 1cm & 2cm spacers
- Place the rear sling loop in the slot at the rear of the chassis (ensuring it is the right way up)
- Fasten the butt pad assembly to the rear of the chassis using the M5 bolts provided (hand tight)



Step 8 - Ensure Function:

- Replace the rifle bolt
- Ensure bolt cycles back and forth correctly
- Ensure trigger and safety catch work as normal
- Should you have dummy test rounds, load magazine with dummy rounds and check for correct feed
- Fit the adjustable cheek piece

Your Tikka T3 is now fitted correctly and we are sure you will be delighted by the improvements to accuracy and ergonomics made possible by the Roedale RCS II.





Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Maintenance and useful information

Maintenance:

Maintenance of the Roedale RCS II stock is as for any other firearms part.

Standard oils and solvents can be used.

Periodic cleaning will ensure longer trouble free performance.

We recommend wiping down the stock occasionally with a rag and WD40

Removal of the rifle bolt requires removal of the adjustable cheek piece.

Recommendations:

- We recommend you visit your local range to check function and re-zero.
- The Roedale RCS II T2 Short Caliber is compatible with original AICS magazines and AICS magazine clones. We have however noticed that there are large variations in tolerances between some of these magazines and that some may require slight modification of the magazine lips to ensure best function.
- Altering the lips on AICS magazines is common practice to accommodate for tolerances in magazine manufacture as well as compatibility with different calibers.
- Each RCS II is tested for feed and function using our own Tikka T3 and magazine before it leaves our premises.
- .223 Rem AICS plastic magazines will work with the RCS II T3 Short caliber stock, but they require a small modification to ensure fit into the narrow feed port of the T3 rifle action. A slight amount of plastic needs to be removed from the lowermost sides of the magazine lips. Inserting a .223 AICS magazine into an RCS II T3 and gently tapping the magazine upwards will cause witness marks on the areas of plastic requiring removal. Simply remove a little at a time until the magazine locks in onto the magazine latch correctly.
- .308 Win and all similar calibers (.243 Win - .260 Rem – 6.5x47 - .338 Fed etc) will work in standard AICS type magazines
- .300WSM and similar calibers will work in standard AICS magazines providing the magazine lips are modified to suit the wider cartridge case body.
- 6.5x55 – 30-06 - .300WM etc work in the RCS II T3 Long Caliber stock. This stock uses caliber specific Voere magazines which are available from Roedale

Torque Settings:

- M6 Stock/Action bolts 65in/lb/f or 7.3Nm
- Trigger location bolt 45in/lb/f or 5.1Nm
- Side panel cross bolts 7.1in/lb/f or 0.8Nm

Helpful Tips:

- Removal and fitting of the T3 bolt stop is easier when the rifle side that accepts the bolt stop is facing downwards
- Placing the rifle action inside a plastic bag whilst removing or fitting spring loaded parts will prevent accidental loss



Inh. Pete Lincoln
 Jahn Str 23
 D49205 Hasbergen Germany
 Tel: +49-5405-606520
 Fax: +49-5405-606530
 Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Contents

For logistical reasons we ship the RCS II as a partly assembled kit boxed in 2 packages.

Major components:

- Chassis
- Polymer sides right side Qty 1 rear & 1 front
- Polymer sides left side Qty 1 rear & 1 front
- Rubberised pistol grip strap
- 1cm spacer
- 2cm spacer
- Butt pad
- Rear sling loop
- Cheek piece assembly

Tools included are Qty 3 Allen wrench.

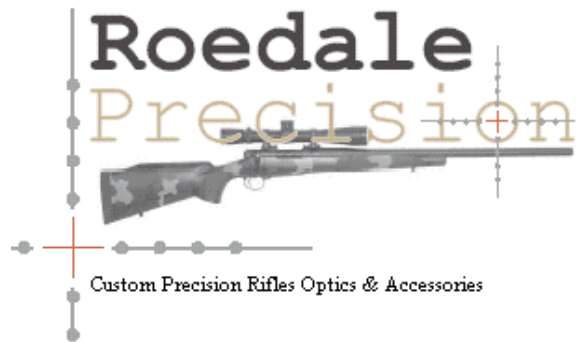
- Small for pistolgrip strap screws
- Medium for stock side cross bolts
- Large for accessory attachment screws

Screws / Bolts included are:

- Qty 2 M6x26 Action bolts
- Qty 2 M3x45 cross bolts (for the forward most mounting holes 1 & 2)
- Qty 1 M3x50 cross bolt (mounting hole 3)
- Qty 4 M3x40 cross bolts (mounting holes 4,6,7 & 8)
- Qty 1 M3x25 cross bolt (for the pistol grip mounting hole 5)#
- Qty 4 M3x6mm pistol grip strap screws
- Qty 6 M5x6 accessory attachment screws
- Qty 2 M5x50 standard butt pad screws
- Qty 2 M5x40 medium butt pad LOP adjustment screws
- Qty 2 M5x30 short butt pad LOP adjustment screws
- Some spare screws / blanking grub screws are also included

LOP adjustment screws short and medium





Inh. Pete Lincoln
Jahn Str 23
D49205 Hasbergen Germany
Tel: +49-5405-606520
Fax: +49-5405-606530
Email: info@roedale.de

Ust-IdNr: DE814379633

www.roedale.de
www.webshop.roedale.de

Tools, cross bolts, pistol grip strap screws, accessory screws and action bolts:



Cheek piece assembly

