

T97.ca FTU™ (Flat Top Upper)



<http://www.t97.ca>

Description:

The new T97NSR FTU™ (*Flat Top Upper*) is a CNC machined, 6061 alloy, 1913 Picatinny optics rail, firearms accessories mounting platform and protective hand guard. It was produced by the product developers at **M14.ca**, the OEM of the M14.ca Blackfeather "RS" rifle stock and the M14.ca CASM™ scope mount series, under the new web site: www.T97.ca. The T97.ca FTU™ is the first in a series of planned upgrades for the Norinco T97NSR bullpup rifle.

The FTU™ replaces the T97NSR's factory iron sights, original plastic hand guard as well as the original T97NSR charging handle with a larger, *non-reciprocating* charging handle (**NRCH**) (a reciprocating charging handle (**RCH**) will also be available) changing the operational dynamics of the original rifle.

First, the FTU™ is designed to offer a lowered, secure, optically precise solution for mounting AR15-compatible, modern optics and iron sights on the T97NSR bullpup. Second, the new **NRCH** provides a heavy duty, forward locking, non-reciprocating, extended handle with a large grasping contour and built-in grip surface. The **NRCH** utilizes a built-in carrier that will stand up to side torque and hard operational use as well as provide for the smooth operation and cycling of the rifle action from the left or right side of the T97NSR. Lastly, the FTU™ can be optionally fielded with a **NRCH** or **RCH**, or *both*.

The FTU™ extends from the rear-most section of the top flat of the original, unaltered butt stock, to the front of the rifle behind the Gas Regulator resulting in a long, 14" length of 1913 Picatinny rail for mounting heavy scopes, red dots or iron sights. Other advantages include being able to remove the Regulator for cleaning without having to remove the optics rail. Finally, one can completely clean and field strip the rifle with the FTU™ in place therefore, optics zero is unaffected.

Legal Notice

This document is provided for information purposes only. As with any firearm part or accessory, the T97.ca FTU™ should be installed only by a qualified gunsmith or by persons specifically experienced with the maintenance and modification of the T97NSR rifle. If you are unsure of your abilities to complete the install, consult a qualified gunsmith.

By opening this package, you expressly agree that under no circumstances and under no legal or equitable theory, whether in tort, contract, strict liability or otherwise, shall The Upgrade Path Inc., or any of its employees, directors, officers, agents, vendors or suppliers be liable to you or to any other person for any indirect, special, incidental or consequential damages, injury of any nature or death resulting from the installation or use of the T97.ca FTU™.

Installation:

The installation of the FTU™ requires the removal of the original steel iron sights, while retaining the original steel sight post stanchions for mounting the new FTU™. The installation process is simple and can be completed in as little as 15 minutes.

Warning: do not cut below the "steel cross braces" on the sight post towers. Cut only at the specific locations as shown in this installation guide.

Tools Required

1. **Dremel® tool or fine tooth metal hand saw or equivalent** (i.e., a grinder) (to cut down sight posts)
2. **5/32" and 3/32" allen wrenches** (to tighten fasteners on FTU™)
3. **A Single Cut file or metal sand paper** (to reduce burrs on cut edges of sight post stanchions)
4. **Metal primer or blueing agent** (for touching up the sight post stanchion after modification)
5. **7/32" drill bit** (for removing the original charging handle)
6. **Safety glasses**

Step 1: Installation Preparation

1. Field strip the rifle as per manufacturer instructions. This includes removing the Upper and Lower Hand Guard and Firing Mechanism. For more information about field stripping your T97NSR, see: http://www.t97.ca/pdf/Type97NSR_MANUAL.pdf
2. Grind off front sight post stanchion just above steel cross brace, NOT below. (See image).



3. Grind off the rear sight post stanchion just above the steel cross brace, NOT below. (See image).



- 3a. Grind off the rear sight post angle at 45 degrees. (See image).



4. File to de-burr, prime or re-blue the sight post stanchions prior to installation.

IMPORTANT NOTE: The original charging handle must be removed!

5. Drill out the original charging handle rivet using a 7/32" drill bit. The hole diameter is exactly 6mm.

Before:



After:



- 5A.** It is possible to remove the original charging handle by grasping the charging handle with a pair of channel lock pliers and with a strong twisting motion downward, stretch, then snap the charging handle from its location.

Step 2: Begin FTU Installation

Terms to Know:

FSPS = Front Sight Post Stanchion

RSPS = Rear Sight Post Stanchion

Note 1: As with all fasteners on the FTU, the Front Sight Post Stanchion (**FSPS**) Clamp, located on the front underside of the FTU™, ships installed but without threadlocker applied to the fastener threads. If you do not have blue threadlocker ® it is advised that you obtain a .5ml vial prior to beginning your installation.

Note 2: the **Non-Reciprocating Charging Handle (NRCH)** ships pre-installed as a left side charging handle. To install the **NRCH** on the right side, remove the charging handle and insert on right side of high density polyethylene carrier (truck), re-install and begin as below. Do not over-tighten the fasteners installed in the HDPE carrier. The heads of these fasteners should be installed flush with the bottom flat of the carrier only, not tightened down. See Note 3.

Note 3: the **NRCH** ships factory installed. Threaded holes are only partially tapped here and act as a nylon lock for the fasteners. Do not tighten: flush install only.

Note 4: the **Reciprocating Charging Handle (RCH)** (sold separately) should only be installed after the FTU™ is completely installed.

Step 3: Installing the RSPS (Rear Sight Post Stanchion) Clamp

1. Install the **RSPS** Clamp with the “C” notch rearward onto the sight post stanchion (with radius forward). To confirm correct orientation, the socket head will be accessible from below. Apply Blue threadlocker and turn the set screw so that it touches the bottom of the **RSPS** flat. Do not tighten. We want to be able to move the Clamp as we are seating the FTU™ horizontal.

Step 4: Seating the FTU™

1. Now slide the FTU™ onto the front sight post by guiding the FTU™ into the top flat of the **FSPS**. This is effectively done at a 20-30 degree angle to the top flat.

2. Push down to seat the FTU™ horizontally, while aligning the loose fitting **RSPS** Clamp with the vertical fastener holes in the top rear of the FTU™. With the large, vertical screw holes in alignment, apply Blue threadlocker to the 1/4"x20TPI fastener to engage the **RSPS** Clamp and hand tighten.

Note: if your FTU does not seat on the rear sight post stanchion, do not force it. Due to manufacturing inconsistencies, some T97NSR rifles may require side surface reductions of the rear sight stanchion for proper FTU fitment. If required, remove surface material from each vertical flat side evenly, work slowly by sanding carefully, then check for fitment until you are able to seat your FTU on the rear sight post stanchion. This procedure may or may not be required, therefore, check for fitment before you start.

3. Hand tighten the **RSPS** Clamp's **large** 5/16"x18TPI set screw from underneath. (Blue threadlocker was applied earlier). Take your time, space is limited in this location.

4. Apply Blue threadlocker to the **large**, 5/16"x18TPI set screw (front) and hand tighten to engage top, forward flat of the **FSPS**.

Step 5: Locking Down the FTU™

1. Apply Blue threadlocker to the **RSPS** Clamp's small 10x24TPI set screw and tighten, engaging the threads of the larger set screw.
2. Apply Blue threadlocker to the **RSPS** Clamp's small 10x24TPI set screw and tighten, engaging the threads of the large socket screw.
3. Apply Blue threadlocker to the **FSPS**'s small 10x24TPI set screw and tighten, engaging the threads of the larger set screw.

Check:

Important Note: with the charging handle carrier in the forward locked position, there must be a 1/16" gap between the rear flat of the carrier and the forward radius of the original charging handle stub as shown below to avoid unnecessary impact with the back of the carrier.



Final Step: Remove Butt Stock "Knub"

As shown in the small red box below, the butt stock "knub" should be cut with a set of diagonal cutting pliers. This final piece will need to be removed in order to seat the rear butt stock under the FTU™ and complete re-assembly process.



Congratulations, the installation of the **T97.ca FTU™** is now complete. Allow blue threadlocker to set for a minimum of 4 hours. Re-assemble the T97NSR according to the manufacturer's instructions. For more information about re-assembling your T97NSR, see this link: http://www.t97.ca/pdf/Type97NSR_MANUAL.pdf

T97.ca FTU Product Data Sheet

Specifications:

<u>Product Name:</u>	T97.ca FTU (Flat Top Upper)
<u>Type:</u>	1913 Picatinny Rail Optics Platform
<u>Material:</u>	6061 Alloy, Type II Hard Anodized
<u>Color:</u>	Black
<u>OAL:</u>	14"
<u>Weight:</u>	11.8 oz.
<u>Rise:</u>	1.1" (butt stock to top rail)
<u>Compatibility:</u>	Fits T97NSR, T97NRR and QBZ95 family of rifles (Norinco and Dominion Arms)
<u>Company:</u>	The Upgrade Path Inc. for T97.ca
<u>Contact:</u>	Sales/Support Tel. 250 721 3444
<u>Web Info.:</u>	http://www.t97.ca
<u>Email:</u>	info@t97.ca

Shipping Components:

- 1 x 6061 alloy with Type II anodizing FTU™ (Flat Top Upper)
- 1 x 6061 Front Sight Post Stanchion Clamp
- 1 x 4140 Steel Rear Sight Post Stanchion Clamp
- 1 x FTU Charging Handle
- 1 x FTU Carrier (Alternative Term: "Truck") (Black High Density Polyethylene)
- 1 x "T97.ca FTU Installation Instructions" sheet
- 1 x Blue threadlocker package

Screws:

Front:

- 2x 10-24 socket head screws 1/2" long = front clamp anchor
- 1x 5/16-18 set screws 3/8" long = front clamping mechanisms
- 1x 10-24 set screws 3/16" long = side lock screw (front)

Rear:

- 1x 1/4-20 socket head screws 3/8" long = rear clamp anchor
- 1x 5/16-18 set screws 3/8" long = rear clamping mechanisms (underneath)
- 1x 10-24 set screws 3/16" long = side lock screw (back)
- 1x 10-24 set screw 1/8" long = rear lock screw (back underneath)

NRCH:

- 2x 10-24x1/2" socket head screw = nrch

Replacement Screws:

A replacement set of machine screws and set screws can be requested should they be required. Send email to info@m14.ca