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AKL-UFM KEYMOD FORE-END FOR STANDARD AK RIFLES

INSTALLATION INSTRUCTIONS

ITEMS INCLUDED IN THIS PACKAGE

ONE (1) AKL-UFM assembly

ONE (1) 9/64" Hex wrench

TWO (2) 8-32x1/2" Socket head cap screw

ONE (1) Barrel clamp

ONE (1) 1/8" Hex wrench

ONE (1) Packet of red Loctite

ONE (1) 10-32x3/8" Button head cap screw

TWO (2) Aluminum vice jaws

Remove the magazine from your rifle, cycle the action, and check the chamber to insure that the rifle is not loaded. Read these instructions completely. Then, re-check your rifle to insure that it is still not loaded.

NOTE: A torque wrench is recommended for assembly, but not required. A vise and straight edge or ruler ARE required for assembly.

IMPORTANT: Installation of this Keymod rail requires either the modification of the rifle's gas tube (machining off the fore-end flanges), or replacement with a "sporter" or plain gas tube (available from Krebs Custom). This Keymod rail fore-end is intended to be a semi-permanent installation. It is not designed to be moved from one rifle to another.

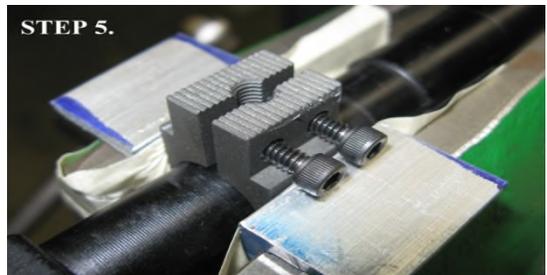
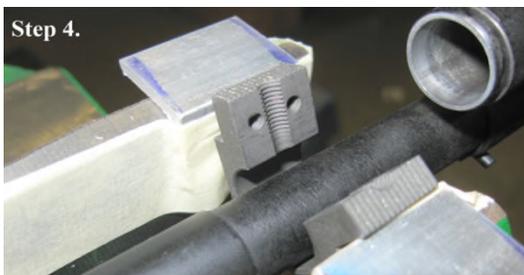
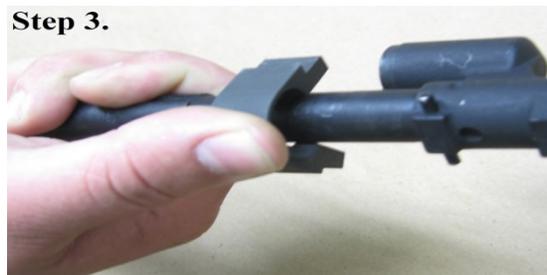
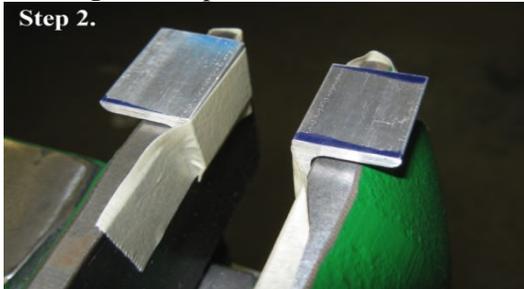
Step 1. Field-strip your rifle in the usual manner. Remove the gas tube by rotating the small lever found on the right side of the rear sight block upward. Grasp the gas tube and pull it upward, then rearward, off of your rifle.

Step 2. Place the aluminum vise jaws in a vise at the edge of the vise jaws. Use masking tape to hold them in place. (See picture)

Step 3. Press the barrel clamp to the barrel using your thumb. The clamp will snap into place (See picture)

Step 4. Insert the barrel clamp into the padded vise jaws so that the top of the jaws are just below the edge of the clamp. Tighten the vise until the clamp is compressed tightly around the barrel. (See Picture)

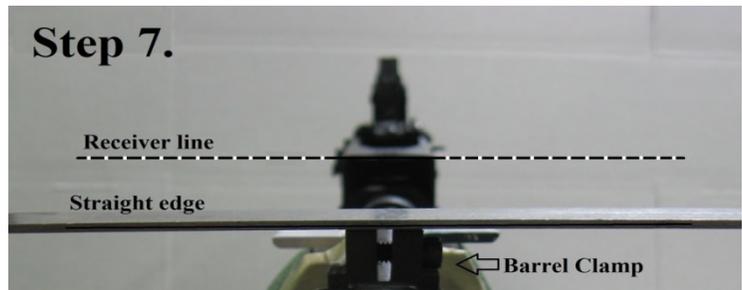
Step 5. Release the clamp from the vise to change the position of the clamp. Using the padded vise jaws, pinch the mounting clamp from the bottom (cinch tight). Tighten the mounting clamp in the vise with the screw holes exposed. Insert the 8-32 x1/2" socket head screws while the clamp is being squeezed by the vise. Turn the screws until they stop. **Do NOT crank them tight.** (See picture)



Step 6. Release the rifle and clamp from the vise. Loosen the screws 2-3 turns, or until the clamp will slide on the barrel. Move the clamp toward the muzzle of the rifle. The clamp must butt up tightly against the back of the gas block. If necessary, tap it into place with a non-marring hammer or punch. (See picture)

Step 7. Place the straight edge on the bottom of the clamp. Align this with the bottom front of the rifle receiver to insure that the clamp is parallel with the receiver. Use a non-marring hammer or punch to tap the clamp to the side if adjustment is required. (See picture)

Step 6.



Step 8. Back out one screw at a time and apply a drop of red Loctite to the threads. Now tighten the 8-32 socket head screws to 30 inch pounds. **NOTE: Do not over tighten these screws, 30 inch pounds is the maximum.** Once the screws are tightened, make sure that the clamp is still parallel with bottom of receiver. Check to make sure the 10-32 button head screw goes in without too much resistance. Remove this screw before next step. (See picture)

Step 9. Now separate the upper and lower sections of the AKL-UFM assembly. Pinch the liner locks located at the rear of the top section, then pull the top section of the UFM rearward and up. (See picture)



Step 10. Slide the fore-end flange of the rifle forward until it can be rotated on the barrel. Rotate the fore-end flange to the LEFT until the top (flat portion) of the fore-end flange is on the left side. Holding the fore-end flange in this position, push the lower UFM section onto the barrel with the fore-end flange aligned with the special inside-machined section at the mid-point of the lower UFM section. The fore-end flange will “rotate” into its normal position, with the sling loop protruding from the cut-out in the lower UFM section. Note: this fit will be snug, but it should not require any force to install. Slide the lower UFM section rearward into position at the front of the receiver. AT THE SAME TIME slide the fore-end flange rearward into its normal position on the rifle. Once the lower UFM rail section is properly seated, rotate the fore-end flange lever rearward, locking it back into place on the barrel. There SHOULD be a small gap between the lower UFM and the receiver. This is easily checked by looking at the receiver corners where it interfaces with the lower UFM. (See picture)

Step 11. Apply a drop of red Loctite to the threads of the 10-32 button head screw, and install it into place through the hole on the lower UFM into the barrel clamp. Now tighten the screw all the way. (See picture)



Step 11.



Step 12. Replace the gas tube onto your rifle. Install the upper UFM by aligning the slots with the pins in the lower UFM. Pinch the liner locks on each side until the upper can be pushed all the way down. Slide the upper unit forward until it locks into place. (See picture)

Step 13. Once locked into place, the UFM should look like the picture below. Installation is now complete.

Step 12.



NOTE: For fine-tuning the alignment of the rail with the front sight of your rifle, the UFM lower has long slots corresponding with the location of the screws in the barrel clamp. This allows the user to make **MINIMAL** adjustments to the lower UFM rail section by slightly loosening & then re-tightening the barrel clamp screws. Ideally, your front sight should be vertical and centered on your rifle. If the front sight is too far off to one side, adjustment of the UFM Lower is not recommended, as too much adjustment will prevent the upper section from properly aligning and locking into place, preventing installation.

12/31/15

Step 12.



NOTE: For fine-tuning the alignment of the rail with the front sight of your rifle, the UFM lower has long slots corresponding with the location of the screws in the barrel clamp. This allows the user to make **MINIMAL** adjustments to the lower UFM rail section by slightly loosening & then re-tightening the barrel clamp screws. Ideally, your front sight should be vertical and centered on your rifle. If the front sight is too far off to one side, adjustment of the UFM Lower is not recommended, as too much adjustment will prevent the upper section from properly aligning and locking into place, preventing installation.

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