



**YANKEE HILL MACHINE Co., Inc.**

**WWW.YHM.NET**

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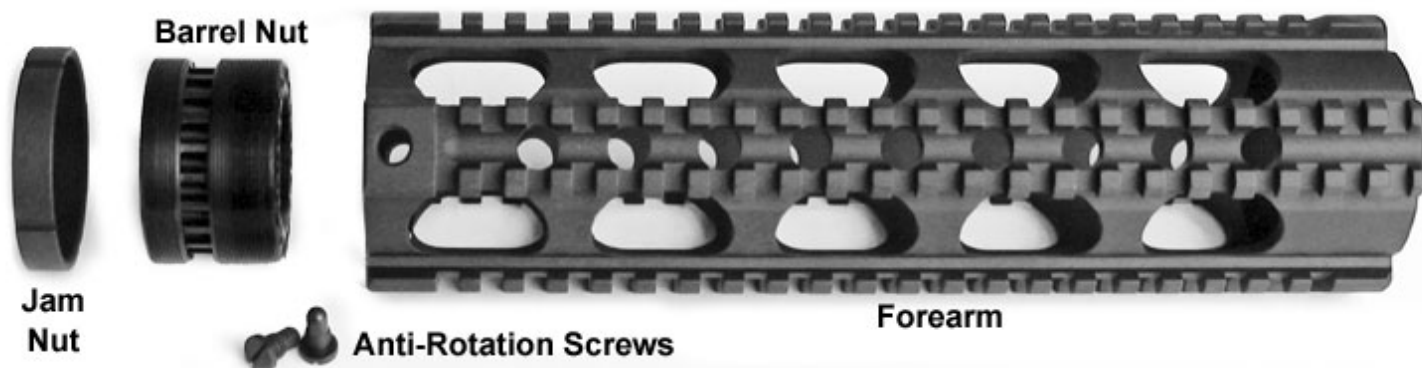
## Installation Instructions For:

### Freefloat Forearms

Instructions are for our following Forearms:

Diamond Series, Lightweight Series, Smooth Series, or our  
Todd Jarrett Competition Series

ONLY a licensed gunsmith experienced with your model of firearm should install this product. Failure to install this product correctly voids any warranties of the product and removes any liabilities against the manufacturer. Be certain the firearm is unloaded and the muzzle is pointed in a safe direction before starting this removal and installation process. This forearm cannot be installed on a rifle utilizing a pinned, welded, or otherwise permanently mounted muzzle accessory unless a two-piece gas block will also be installed.



#### **Strongly Recommended Tools:**

YHM Forearm Wrench(YHM-9621), YHM Picatinny Vise Jaws(YHM-7350), Armorer's Wrench

1. Remove the existing forearm per the firearms manufacturer's instructions.
2. Unscrew the muzzle brake or flash hider and set aside if applicable.
3. Remove the front sight by tapping out the 2 tapered dowel pins at the bottom of the sight that hold it onto the barrel using a 1/8 diameter drift pin punch being sure to drive the pin out from the SMALL END
4. Remove the sight assembly and gas tube from the barrel and set aside. Retain the tapered dowel pins for re-assembly.
5. Remove the front plate of the old forearm.
6. Remove the combination delta ring/barrel nut using a proper armorer's barrel nut removal wrench.

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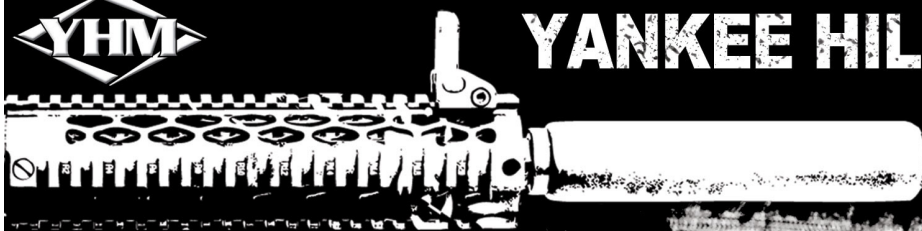


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### Diagram

7. Clean the threads on the upper receiver and install the new barrel nut until it is firmly tightened by hand.
8. Using our forearm wrench (YHM-9621) tighten the barrel nut to the next aligning gas tube hole in the barrel nut. Take special care in aligning the gas tube hole in the receiver to the gas tube hole in the barrel nut as this will influence the orientation of the rails of your new forearm. **See Diagram.**
9. Install the jam nut all the way on the barrel nut until it is flush with the end of the barrel nut closest to the upper receiver. Then unscrew it towards the muzzle one and one half turn.

**\* If you are installing a low-profile gas block inside your new forearm, install it at this time according to the provided instructions.**

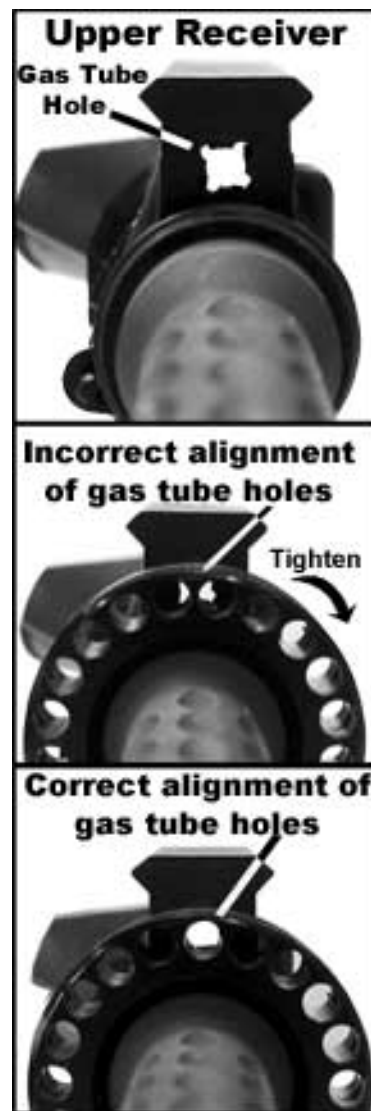
10. Install the forearm onto the barrel nut until it makes contact with the jamb nut making sure the sling mount holes are facing the muzzle end and the holes for the anti-rotation screws are at 3 and 9 O'clock.
11. Install and tighten the 2 anti-rotation screws. Start each screw and evenly tighten each screw a little at a time until completely tight.  
\*Use a low-strength thread locker if desired.

**\* The YHM Picatinny Vise Jaws (YHM-7350) will hold the forearm for this step and perfectly align the top rail of the forearm to the rail on the upper receiver.**

12. Align the top forearm rail with the upper receiver, hold the forearm and tighten the jam nut firmly against the forearm using the hooked end of our forearm wrench.

**\*If you're installing a forearm end cap YHM-9484A or B, follow the instructions supplied for that product at this point of the installation. When finished installing the end cap, return to step 13.**

13. Re-install the front sight being careful to align the gas tube through the barrel nut and upper receiver. Re-install the tapered dowel pins being careful to install them in the proper direction of the taper. Set the pins firmly.
14. Re-install the muzzle brake or flash hider to manufacturer's specifications if applicable.



Before test firing the firearm, be sure all components that were removed are reinstalled and tightened correctly. It is recommended that you bench fire the firearm first to be sure everything is operating smoothly. Always handle your firearm with care being sure the muzzle is pointing in a safe direction and wear approved shooting glasses and hearing protection when using your firearm.

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