

JP AR-15 SPEED HAMMER

Parts Included:

- JP Speed Hammer
- Two (2) D-springs

CAUTION: REMOVE MAGAZINE AND VISUALLY CHECK CHAMBER TO MAKE SURE THAT FIREARM IS UNLOADED.

The **JP Speed Hammer** is 35% lighter in the head than a standard hammer and will drastically reduce the lock time of your fire control mechanism without affecting ignition reliability. It is the ideal upgrade compliment to our own JP Fire Control Kit and can be installed using the instructions provided with that system.

The Speed Hammer is made of laser-cut S7 tool steel, heat-treated to 63R throughout, not merely surface-treated like a standard hammer. The engagement limitation feature on the notch has been eliminated to allow easy access to the notch feature for prepping, if needed.

This hammer should not be used with standard M15 triggers, as it will have excess engagement. This is not a safety consideration, but a trigger feel issue, considering it will cause more “creep” in the trigger release. Note also that this hammer does not have a J-spring running up the center to retain the standard grooved hammer pin. Instead, we have provided a special D-spring that installs on the right edge of the hammer trunnion to retain the pin. Take care not to lose it during installation.

Installing the hammer:

If you are just changing out the hammer in your trigger system, remove the upper receiver assembly from the lower, and lock the lower assembly in a padded vice. De-cock the existing hammer, push out the hammer pin, and remove the hammer. Remove the hammer spring from the existing hammer, and install it on the JP Speed Hammer. (Make sure you have the correct hammer for your receiver. Newer Colts require the .169 “large pin” version.) Reinstall the new hammer, making sure that the D-spring retains the hammer pin. The standard hammer pin must be installed with the groove on the right side to catch the retainer spring.

Once the hammer is installed, the disconnecter function should be tested. Even standard fire control parts should always be tested before live fire. Due to tolerance stacking between manufacturers’ receivers and parts, a hammer follow may occur. While holding the trigger to the rear (fired position), cock the hammer. The hammer should be retained by the disconnecter. Now, **very slowly** release the trigger. The hammer should release from the disconnecter at nearly the end of the trigger-reset travel and be stopped by the sear of the trigger. Repeat this a number of times to verify. If the hammer falls all the way forward, it will be necessary to replace or modify the disconnecter and/or trigger.

Timing the disconnecter:

If the hammer drops all the way when you release the trigger and misses the sear, the disconnecter is releasing the hammer too soon, or the trigger geometry may have been altered. If you do not have proper disconnecter function, disconnecter release timing may be increased by removing material from the forward stop pad on the disconnecter (i.e. the point at which the disconnecter rests on the trigger, limiting its forward travel). This will allow the "at rest" position of the engagement hook to come forward a bit. When you slowly release the trigger, the hammer should be retained by the disconnecter to nearly the end of the reset travel of the trigger. Repeat the disconnecter test and adjust the disconnecter until reliable function is achieved. Under no circumstances should a rifle be fired that does not pass the disconnecter timing test.

Installation of JP Speed Hammer with JP Fire Control System:

For complete first-time installation, just follow the instructions provided with the fire control kit. It is essential to follow the setup procedure to achieve an acceptable result. If you are adding the JP Speed Hammer to a previous installation, it will most likely be necessary to completely redo the installation/setup procedure. It is unlikely that a new hammer will drop in and function with the original settings. If you have discarded the instructions for the fire control kit, you can call us for another set. All of our product instruction sheets may also be downloaded from the instructions page of our website, www.jp Rifles.com.