

Thompson Performance, LLC™ - *POWERBLAST PLATE™*

INSTALLATION INSTRUCTIONS and LIMITED WARRANTY FOR PBP SD-1

IMPORTANT NOTE: Proper installation is the responsibility of the purchaser. Improper installation may result in poor performance and engine or vehicle damage. PLEASE read these instructions carefully before beginning any of the installation.

THE POWERBLAST PLATE IS DESIGNED AND SOLD FOR USE ON PRE-POLLUTION-CONTROLLED VEHICLES ONLY. By installing the POWERBLAST PLATE, you are agreeing that you have read this notice and accept all responsibility for compliance with your state, local and federal emissions control regulations.

WARNING: WHEN WORKING WITH AND AROUND GASOLINE, ALWAYS WORK IN A WELL VENTILATED AREA AND KEEP ALL OPEN FLAMES, SPARKS AND OTHER SOURCES OF IGNITION AWAY FROM THE WORK AREA. FAILURE TO DO SO COULD RESULT IN A FIRE OR AN EXPLOSION. HAVE A FIRE EXTINGUISHER ON HAND DURING THE ENTIRE REMOVAL AND INSTALLATION PROCESS.

TOOLS NEEDED

- Needle Nose Pliers
- Allen driver set
- Tools necessary for proper removal and re-installation of the carburetor, including fire extinguisher.
- Safety Glasses
- Work Gloves
- Absorbent Pad for gas spillage

NOTE: The POWERBLAST PLATE is not compatible with nozzles that have extension tubes and anti-pullover nozzles. Must use standard "Straight" nozzles.

BEFORE REMOVING THE CARBURETOR

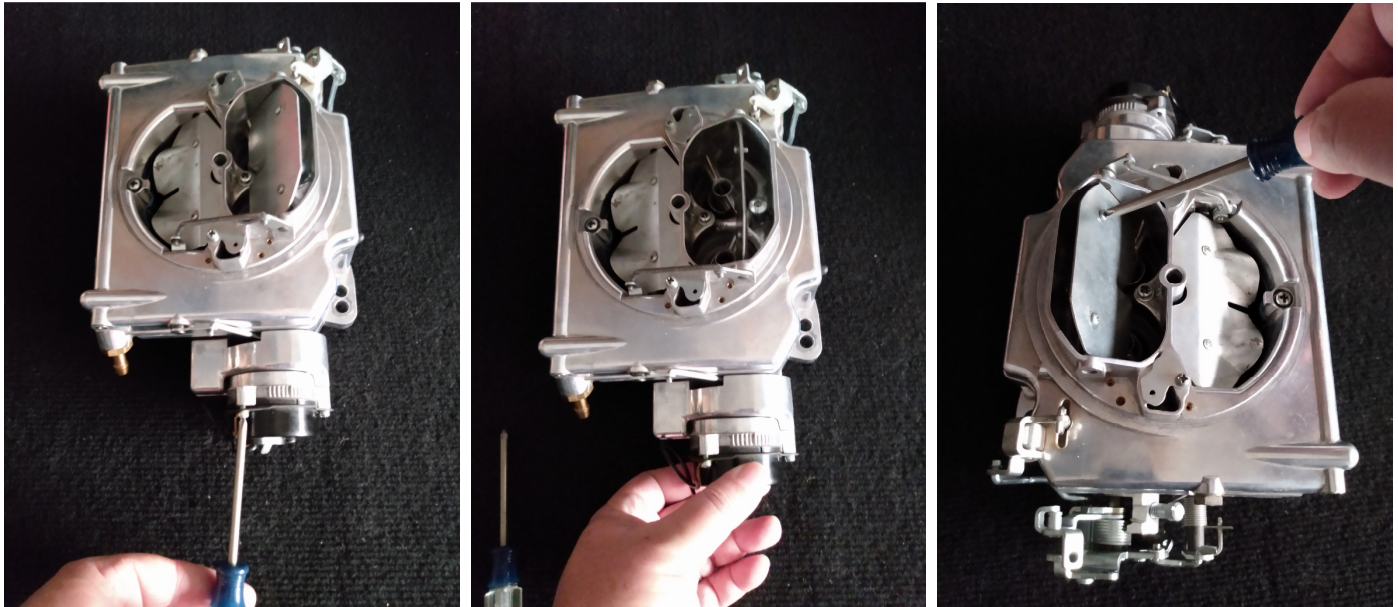
- Make sure the engine temperature is cool and the fuel pressure is low to prevent fire or explosion.

CARBURETOR REMOVAL

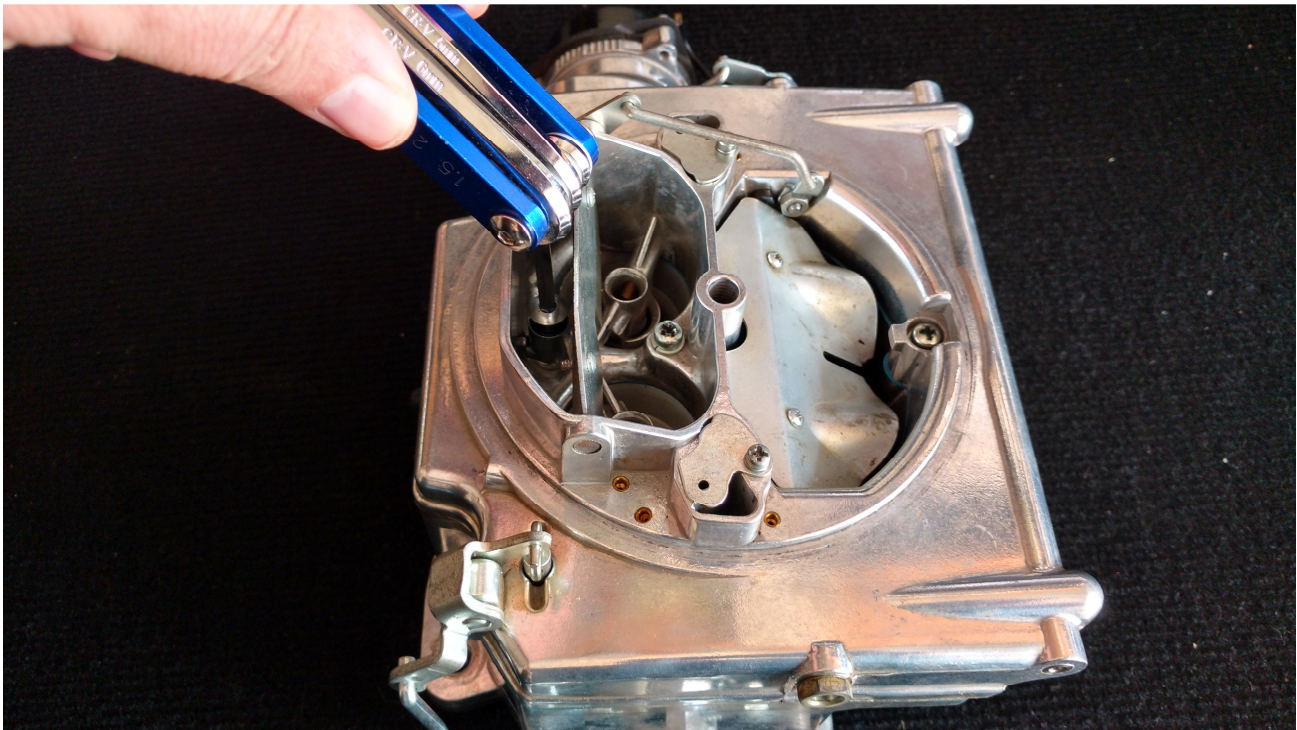
- Remove the carburetor per your automobile/carburetor manufacturer's procedures.
- If portions of the fuel line remain attached to the carburetor, place a plug at the end to prevent leaks.
- Keep the carburetor level to prevent fuel from spilling out of the carburetor. Move the carburetor from the engine to a work surface that is away from sparks or other sources of ignition, in a well-ventilated area. Have a fire extinguisher at hand just in case.
- Place fuel absorbent material under the carburetor to absorb any fuel drips, spillage and accelerator squirts.
- Inspect the carburetor base gasket for any sign of leakage or cracking. Replace the gasket if necessary. Do not use any gasket glue, cement, silicone or RTV sealant, just the plain gasket material.
- Cover open holes in the intake manifold to prevent any foreign objects from entering the engine.

POWERBLAST PLATE INSTALLATION

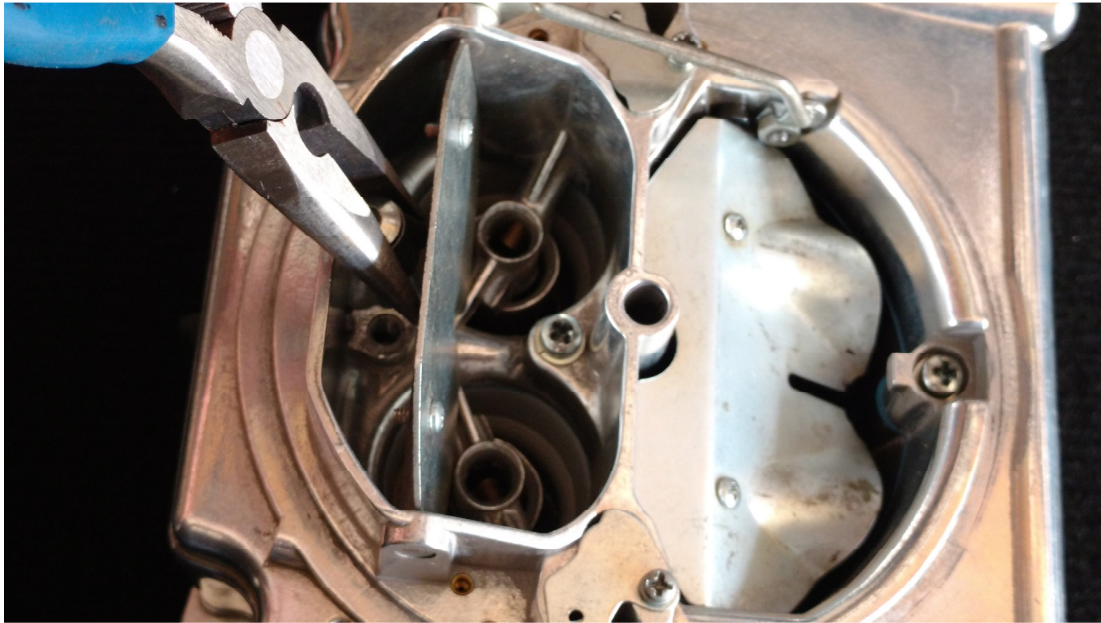
1. Loosen the screws of the choke housing (not too much and do not remove) and ***note its position in order to properly reset it during reinstallation***. Rotate the choke housing counter-clockwise to move the choke plate to the fully open position, then locate the accelerator pump discharge nozzle down inside the choke horn, toward the front center of the carb. You could alternately remove the choke plate screws and remove the plate for best access, or hold choke plate open.



2. Fully loosen the accelerator pump nozzles retention screw.



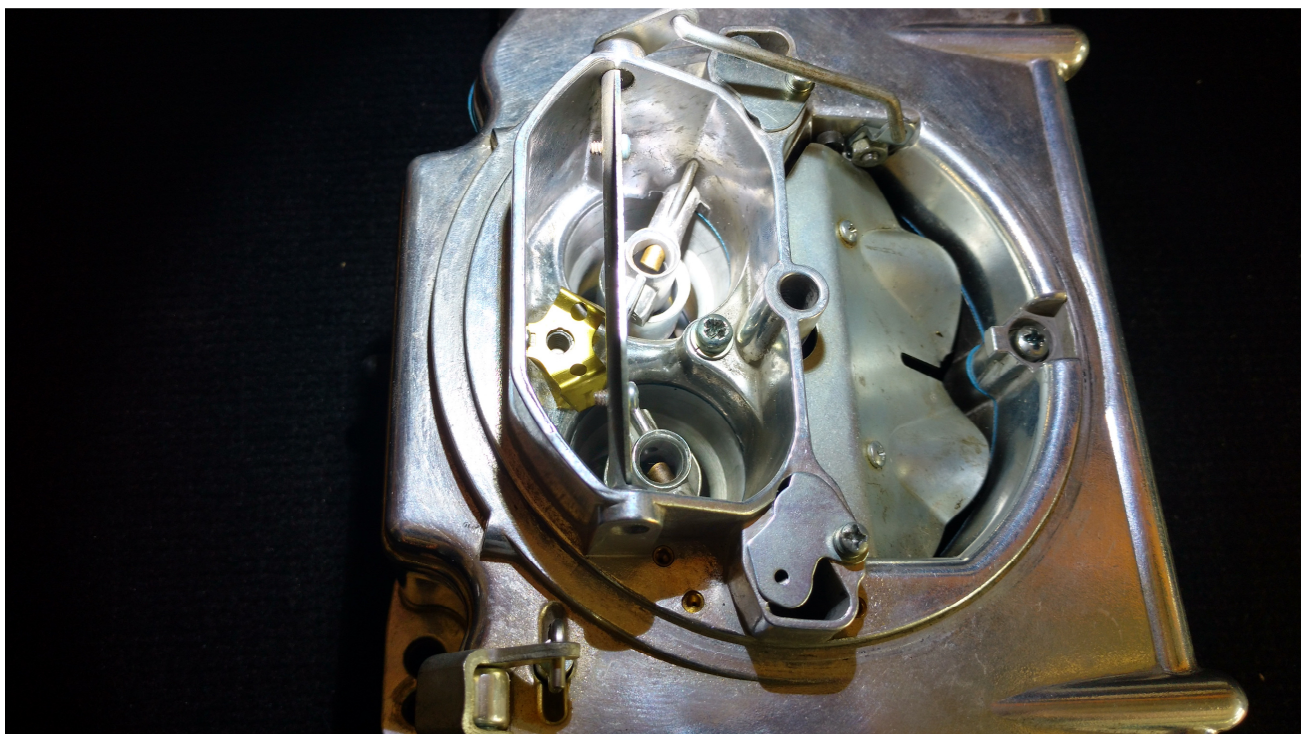
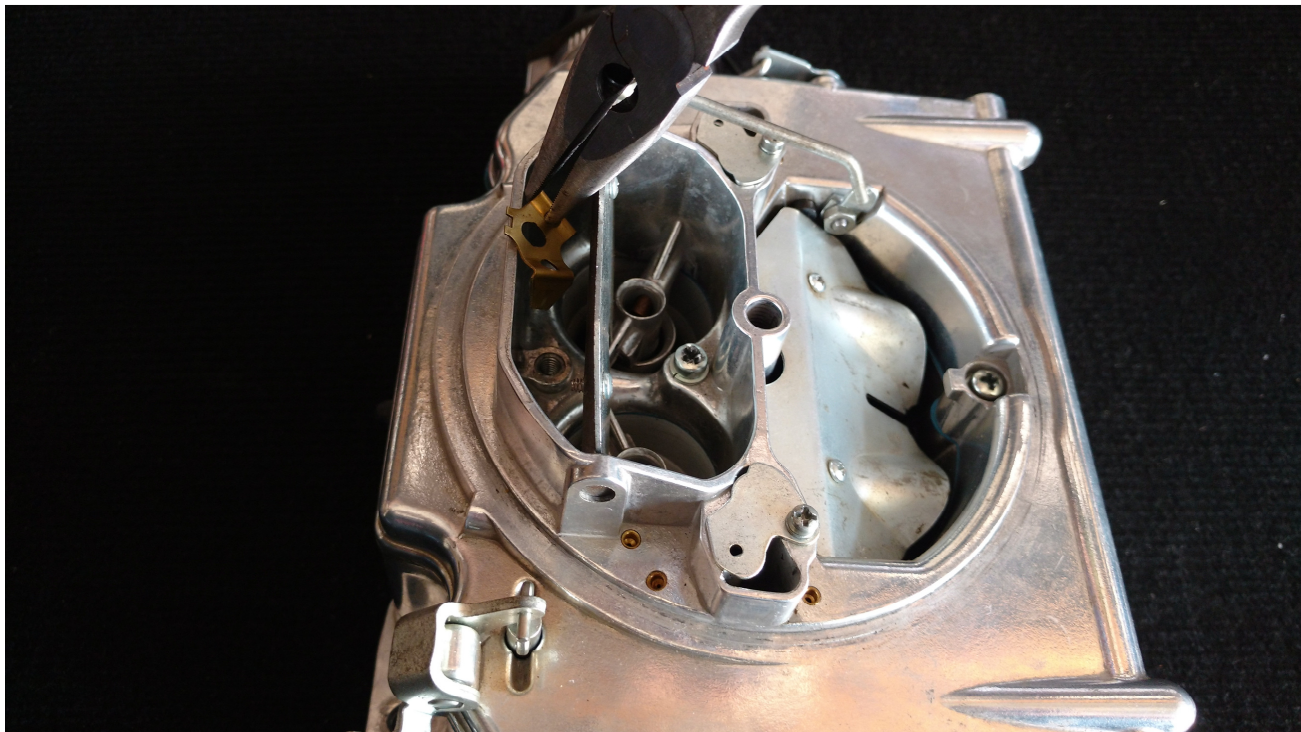
3. With the needle nose pliers, remove the retention screw and the accelerator pump nozzle together, by gripping them with the pliers, move them to one side and then lift them straight up and out.



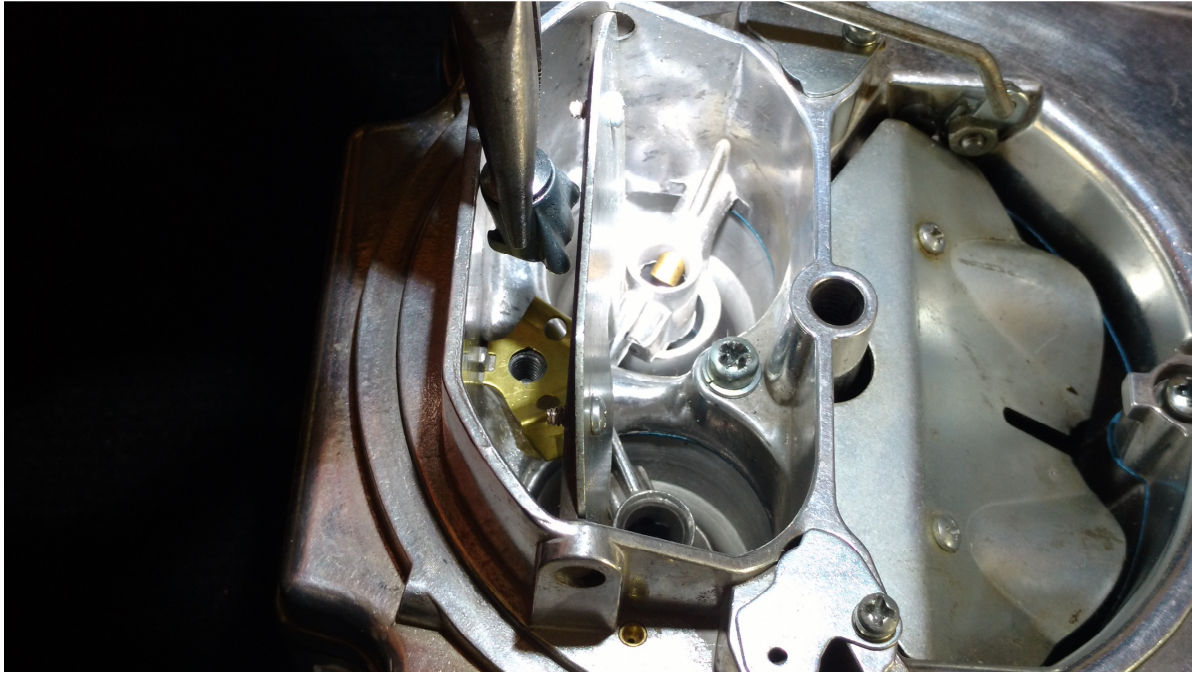
PLEASE NOTE: There is usually a gasket between the accelerator pump nozzle and the main body. Sometimes the gasket is stuck to the underside of the nozzle when you remove it. Pull the gasket out with the needle nose pliers if required and discard or save elsewhere. If the gasket falls away, you must retrieve it so that it does not go into the engine. **This bottom gasket will not be used during reinstallation. The *POWERBLAST PLATE* will now take the place of the bottom gasket. Be sure NOT to move the accelerator linkage while the nozzle is off, as the check needle is now exposed and would pop out.**



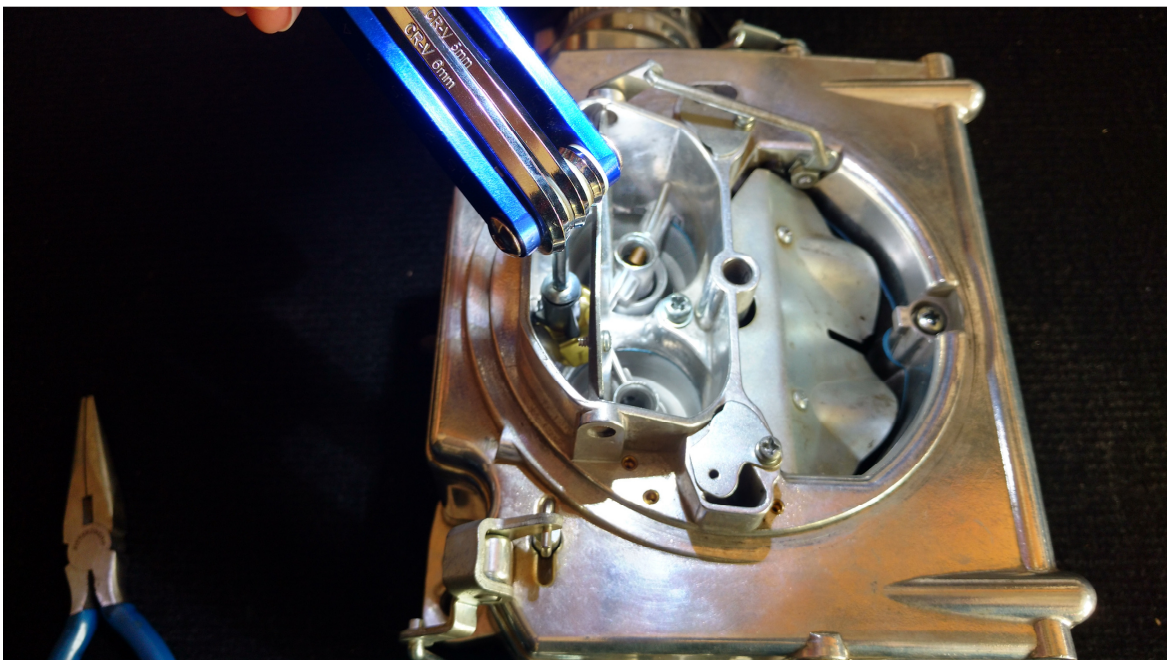
4. With the needle nose pliers, slide the *POWERBLAST PLATE* down the choke opening and then under the choke plate and onto the nozzle pedestal.



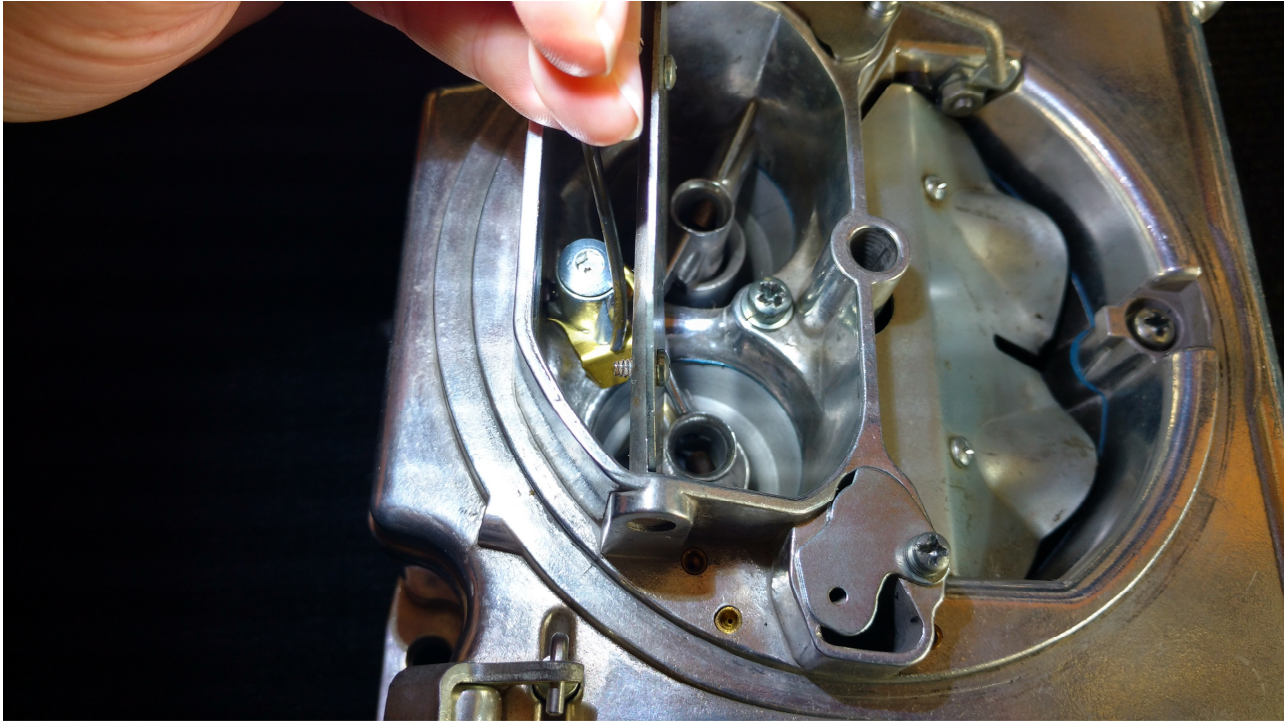
5. With needle nose pliers, and with the screw and nozzle assembled together, reinstall the accelerator nozzle and retaining screw, **WITHOUT THE BOTTOM GASKET**. Place them on top of the *POWERBLAST PLATE* sitting on the nozzle mounting pedestal.



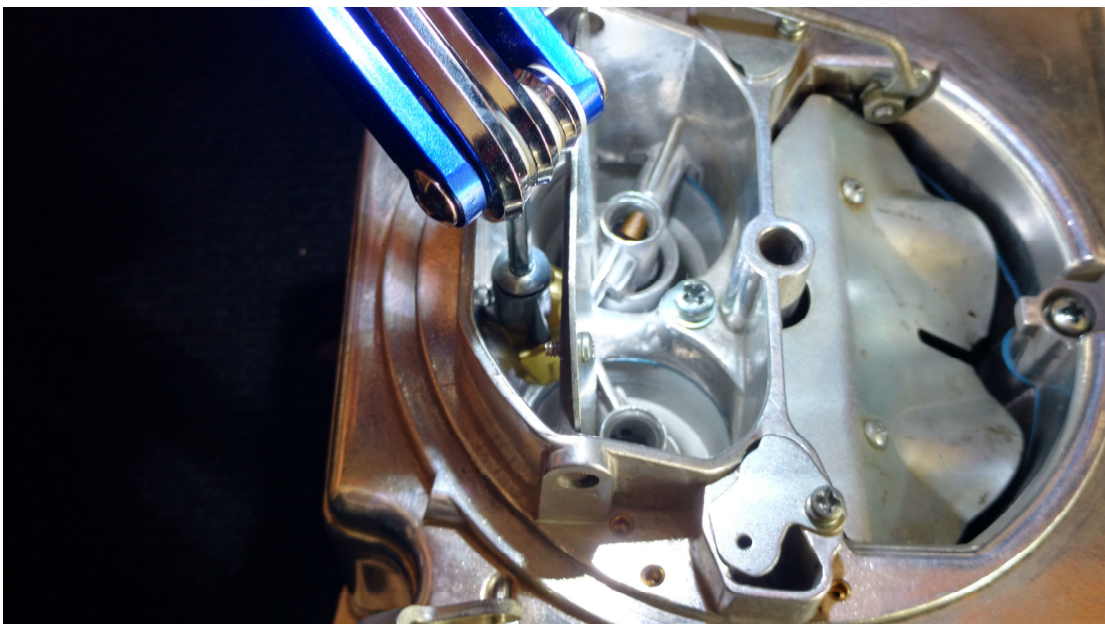
6. While holding the *POWERBLAST PLATE* centered and firmly in place, only slightly tighten the retention screw and check the alignment of the Accelerator nozzle and the *POWERBLAST PLATE*. The nozzle and *PLATE* should be aligned so the nozzle discharge holes line up with the exit holes in the plate, and the *POWERBLAST PLATE* should be positioned for equal spray into each venturi.



7. Place something absorbent under the carburetor and then move the accelerator linkage enough to check the spray from the *POWERBLAST PLATE*. Fuel exiting the nozzle should shoot through the exit holes of the plate and hit the backside of each fin of the *PLATE*. The *POWERBLAST PLATE* should be aligned in the venturis to spray equally on each side. Keep in mind that this spray will not be atomized until the engine is running.



8. Once you have the *POWERBLAST PLATE* and accelerator nozzle in alignment with a good spray into each venturi, tighten the retention screw firmly – **do not overtighten**. Try to keep the *PLATE* from rotating and going out of alignment while tightening.



CARBURETOR RE-INSTALLATION

- Remove cover from intake manifold opening and place away from engine.
- Make sure the mating surfaces of intake manifold and carburetor are both clean and flat so they seal well.
- Place the carburetor on the intake manifold, remembering to keep the carburetor level to prevent fuel spillage. If using a previously used gasket, gently wiggle the carburetor on top of mounting surface to find the previous resting place of the carburetor. The carburetor will have left an impression in the gasket when it was previously tightened.
- Continue installation of the carburetor as specified by the manufacturer.
- Confirm all linkages are working properly and fuel lines are hooked up and tightened properly.
- Reset choke to setting noted in Step 1 as needed, or replace choke plate and retention screws as needed and tightened properly. **Regularly inspect and retighten choke plate screws as necessary.**
- With the engine running, reconfirm spray of nozzle and POWERBLAST PLATE.

SPECIAL NOTE:

All retail purchasers are fully responsible for filing and paying any and all taxes not previously collected, as required in their local and state jurisdiction. All resale purchasers are fully responsible for collecting, reporting and paying, any and all taxes required in their local and state jurisdiction.

LIMITED WARRANTY

Thompson Performance, LLC, warrants the *POWERBLAST PLATE* to be free from defects in material or workmanship. The warranty is valid provided that the product is properly installed, subjected to normal use and is not modified or changed in any way. This warranty is extended to the original consumer purchaser and has a duration of 30 days from the date of original purchase by such consumer. Thompson Performance, LLC's sole responsibility is to replace the defective part. No cost of removal or installation of the product is covered.

Thompson Performance, LLC will not warranty products which have been modified or altered outside our specifications, subjected to misuse, neglect, accident, improper installation or adjustment, dirt or other contaminants, weather or corrosion, gum or varnish, use of improper or poor quality fuel or fuel additives, improper fuel pressure and repair or use other than intended.

Thompson Performance, LLC or any of its managers, members or employees, shall not be responsible for actual or alleged labor, transportation or other incidental charges, or actual or alleged consequential or other damages incurred by use of the Thompson Performance, LLC, *POWERBLAST PLATE*.

This general limited warranty supersedes any other warranty statements. The purchaser assumes all responsibility for use of the *POWERBLAST PLATE* and compliance with all laws.

NO OTHER WARRANTY BEYOND THOSE STATED HERE, EXPRESSED OR IMPLIED, ARE APPLICABLE TO THE PRODUCTS OR ***THOMPSON PERFORMANCE, LLC***. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY HEREIN. ***THOMPSON PERFORMANCE, LLC*** SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THIS PRODUCT.

WHAT YOU MUST DO FOR THE WARRANTY SERVICE:

In the event that the original purchaser detects a defect in the material or workmanship, the product(s) in question must be returned by the original retail purchaser to the place of original purchase for warranty determination. In the event that the purchaser does not receive satisfaction from the place of original purchase, if you purchased directly from Thompson Performance, LLC, or in the event there are any questions with regard to this limited warranty, please contact us by email sent to: thompsonperf@gmail.com . Do not send alleged defective parts to Thompson Performance, LLC, without prior approval to do so. If such approval is obtained, the defective part and proof of purchase must be sent, postage prepaid, to the address provided by Thompson Performance, LLC along with the provided return number.