



Instructions

Intake Manifold Repair

Congratulations on your purchase of a ProMAXX® engineered performance device! Our tools have the highest quality and precision in the market, delivering the most productive repairs. All ProMAXX® tools are manufactured in the United States of America from American materials and craftsmanship. We proudly provide limited lifetime warranties and free unlimited technical support. **Need help with the repair? Contact ProMAXX Tool's Technical Support @ 724-941-0941.**

1. Mount the ProPlate™ to the intake side of the manifold using the included ProFasteners (PPF006625-100D) according to the enclosed intake manifold schematic. Torque ProFasteners to a minimum of 20 FT-LBS.
2. Insert the ProBushing™ into the ProPlate™. Then, insert the corresponding ProDrill™ machine grade tooling bit (included) into an air-powered, angled-style drill. Using drill depth gauge, machined into the ProPlate™, set the proper depth of the bit and mark if necessary. Apply one drop of ProLube™ (PPL001). **AVOID USING PENETRATING OIL/SPRAY OR OTHER LUBRICANTS WHICH ELEVATE CUTTING EDGE TEMPERATURES CAUSING THE BIT TO BURN AND CEASE CUTTING.**
3. Insert the prepared ProDrill™ into the mounted ProBushing™ by manually turning the drill chuck until the ProDrill™ slips into the bushing and makes contact with the surface of the damaged stud. *(This will ensure the cutting edge is not damaged.)* *Repeat this procedure for each sequential step in your application
4. **SET THE CUTTING EDGE:** While applying light pressure, **activate your drill both on and off five times in one second intervals (ten times if utilizing an air ratchet). This is the MOST CRITICAL step of this repair, creating precise alignment (a seat) for the tooling bit to stay on center and not follow the angular broken surface of the stud and apply load evenly across the entire cutting edge.** Drill continuously at proper RPM (see cutting speeds below).
5. **EXTRACTORLESS Tooling Option** For EXTRACTORLESS, follow the drilling sequence. When finished drilling insert the Tap ProBushing into the ProPlate and use the ProTap to chase the threads clean. Apply one drop of ProLube to each flute of the ProTap. Turn one full turn of the ProTap when you begin, then turn counterclockwise ¼ to ½ turn/ Using compressed air, clean the cutting debris free by sending compressed air down each flute to remove any remaining material. This step will remove obstacles in the thread to reduce probability of tap failure.

NOTE: In the unlikely event an extractor fails or breaks, **contact technical support at 724-941-0941 for recommendations and procedures.** ProKits can also be upgraded to be an “extractorless” repair: Repeating drilling instructions above and chasing threads clean with a machine grade tap.

NOTE: ProMAXX® **does not** recommend tapered left-handed screw extractors as they have the potential to deform the remnant in the cylinder head increasing complexity of extraction. In addition, these extractors cannot be turned clockwise to unlock the damaged remnant. Approximate tooling cutting speeds (Under load): MIN: SSSC125/PLT125@500 RPM, SSSC188/PLT188@300, SSSC266/270/ PLT270@250.

NOTE: **Some air ratchets may not generate sufficient RPM under load to be effective.** See ProMAXX® ProRatchet PPR5260 or PowerDrill™ PPD2800 at www.promaxxtool.com for optimum efficiency and maximum productivity.

PROMAXX™ machine grade tooling is specially engineered to close tolerances of (+) .000” and (-) .001” and ground straight to ensure accurate and repeatable results in using your new device. **Specify PROMAXX® genuine replacement parts and tooling for optimum performance and extended warranty coverage.** Always use appropriate OSHA approved safety glasses/goggle and protective gloves while using this device and performing this operation.



For video Instruction, check out the QR code to the left! Simply hover your phone camera over the image and it will connect you to our fast, easy Youtube tutorial.



1121 Boyce Rd Suite 2000, Pittsburgh, PA 15241



(724) 941-0941



www.promaxxtool.com

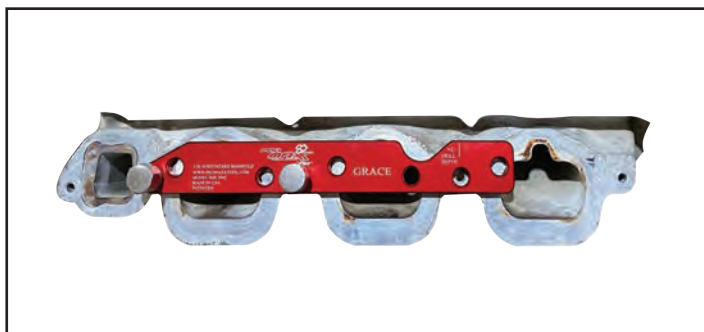




FORD ECOBOOST 3.5L INTAKE MANIFOLD REPAIR KIT PROPLATE MOUNTING & APPLICATION



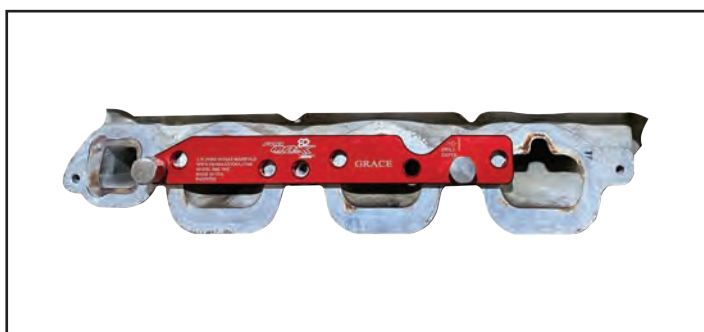
POSITION 1



POSITION 4



POSITION 2



POSITION 5



POSITION 3



POSITION 6

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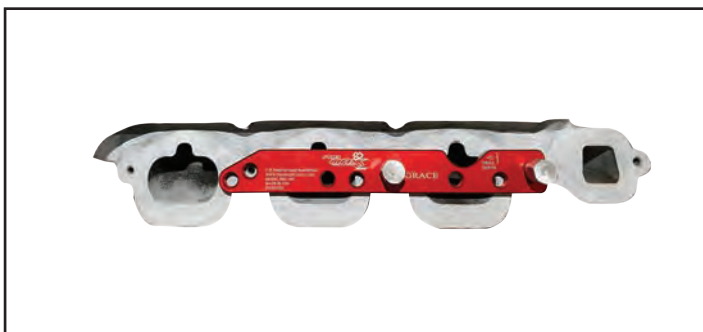




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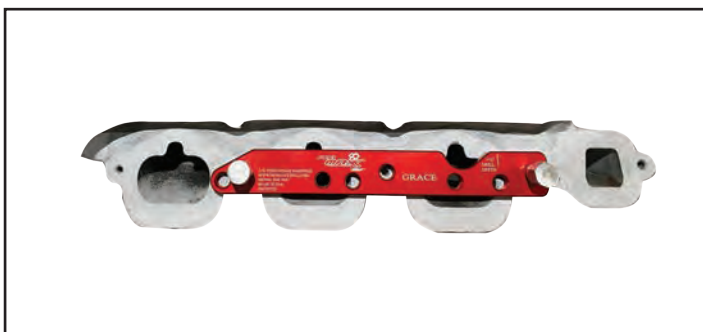
POSITION 7



POSITION 10



POSITION 8



POSITION 11



POSITION 9



POSITION 12

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