



American Pi, Inc.
Unique Engineering, Manufacturing and Marketing

Billet Shift Coupler Installation Instructions

Thank you for purchasing our precision machined product for your Corvair. During manufacturing we hold tolerances which are 10 times better than the factory could with their production techniques. The small production runs that we adhere to and our dedication to quality products allows us to check each and every product before it is packaged for you. If you have any questions or suggestions, please do not hesitate to contact us after you have followed the instructions below.

It is assumed that you have basic hand tools, an understanding of the Corvair engine and a G.M. chassis shop manual. Please carefully review the following instructions before you begin this project. If you feel you are not qualified to install this precision product, please visit your favorite Corvair repair dealer.

Note: This precision product will yield a much more positive shifting than the factory part. But this precision part is not a substitute for a worn out shift linkage system. If you have not already done so, now would be a good time to inspect your shift linkage system for worn parts. Typical wear items are the plastic bushings in the shift tube and required cleaning and maintenance of the shifter lever mechanism.

Remove Stock Shift Coupler.

Following the shop manual, remove the stock shift coupler. Corrosion, dirt and rust may hinder easy shift coupler removal. You may need to apply some penetrating oil or heat to help loosen the stock shift coupler. Once removed, thoroughly clean the shift tube of all foreign matter and remove any rust which may be present .

Install Billet Shift Coupler

Note: One c-clip is not attached to the pin, but held onto the Billet Shift Coupler with tape. This is to allow for easier installation of the Billet Shift Coupler. Be mindful that the c-clip is not attached to the pin and be careful not to lose the c-clip when the tape is removed.

Completely clean the transmission shift selector shaft. It is very important to clean the hole of the selector shaft where the pin fits as the new pin is precision ground at much tighter tolerances than the stock part. The fit between the new pin and a new shift selector hole is less than .005". Both parts need to be clean and grit free to install the new pin.

While being mindful of the loose c-clip, remove the tape from the Billet Shift Coupler and extract the pin.

Test fit the new pin in the shift selector shaft to get a feel of how the pin fits to the shaft.

Install Billet Shift Coupler into shift tube.

Note: A light application of anti-seize compound to the Billet Shift Coupler shaft will help make future removal easier.

Line up the Billet Shift Coupler to the transmission selector shaft

Install shifter pin thru the Billet Shift Coupler and into transmission selector shaft.

Install the c-clip to retain the pin.

Lightly tighten the stock clamp.

Follow the shop manual and adjust the shift linkage.

Tighten the stock clamp

Lightly oil all pin points.

Billet Shift Coupler Care And Maintenance.

Every year or so inspect the coupler, clean and re-oil as necessary.