

***turboGAMIjector*® Installation Procedure  
for TCM TSIO-470/520 and Turbonormalized IO-520/550 Engines  
STC No. SE09289SC**

1. Remove existing TCM fuel injector nozzles by disconnecting fuel and air lines at the top with an appropriate wrench. Remove the air lines surrounding each nozzle. Remove the nozzles with a ½ inch deep socket.
2. Determine which specific nozzle is installed in the engine as the factory standard nozzle. Then refer to Chart "T" for the GAMI Kit to be installed. Verify that the kit to be used matches the appropriate kit number corresponding to the factory standard nozzle size for the engine to be modified. Verify that the injectors enclosed in the kit are correctly identified and correspond to the injector numbers on the line identified by the kit number in Chart "T". Check to see that the "O" rings are properly installed in the respective grooves in the nozzles.
3. Using a ½ inch deep socket, install the *turboGAMIjector*® nozzles in the appropriate cylinders as described above. It is recommended that an appropriate "anti-seize" compound be applied to the threads before installing the injectors.
4. Tighten nozzles to a torque value of 55 – 65 lb-in.
5. Reconnect and tighten the fuel and air lines at the top of the *turboGAMIjector*® nozzles.
6. Check installation for crimped lines, loose fittings, etc.
7. Leak check the *turboGAMIjector*® nozzles and associated fuel lines by use of the electric fuel pump, prior to starting the engine. Perform a ground engine run-up and recheck for fuel leaks before flight.
8. Clean a flat 1.5" x 2" area on each cylinder rocker arm cover with acetone or isopropyl alcohol. Peel backing off of *turboGAMIjector*® labels and apply to the appropriate cleaned areas of cylinder rocker arm covers. Remove the backing from each fuel line label. Locate the middle of each tag against its corresponding fuel line approximately 5" from the injector nozzle and wrap the label around the fuel line doubling it over onto itself as a tag.
9. Check to be sure that the *turboGAMIjectors*® and placards have been installed on the proper cylinders and that the *turboGAMIjector*® part number in each cylinder corresponds with the part number called out on the placard affixed to its respective cylinder head rocker arm cover.

