



# INSTALLATION INSTRUCTIONS

1815 Patterson Ave. Deland, FL, 32724 – [ftiperformance.com](http://ftiperformance.com)

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## TORQUE CONVERTER

**Disclaimer:** Included in the following documents are detailed instructions on how to install your new FTI torque converter. Remember racing is dangerous, and a product such as this one is crucial to a properly functioning racecar. Failure to properly install this product can lead to catastrophic failure. Please keep in mind that all vehicles are different, these instructions have been generalized to cover most applications. If you are unsure about any of the steps in this instruction sheet, please consult a professional immediately for assistance or contact FTI's tech support line at 386-736-5816.

**Pre-installation Setup:** Please make sure your work environment is level and clean to ensure a safe work environment. Make sure you disconnect your battery cables and safely tuck them away from the battery to prevent any arcing or other mishaps. Next carefully raise your vehicle to a safe height in preparation to remove your transmission. Safely secure the vehicle with a minimum of 4 jackstands or a like product. Make sure there is plenty of room between your vehicle and the ground to slide your transmission underneath the car during this installation.

### Instructions:

1. Start by draining the fluid from your transmission. If your pan has a drain plug feel free to use that to drain your fluid. If not start by slowly loosening the rear half of the pan and working forward as you loosen the pan. Fluid will start to slowly drain from the pan. Continue this until you can easily lower the pan and pour the remaining the fluid into the drain pan. Reinstall the pan once the transmission is done draining.
2. Remove the converter bolts.
3. Remove the drive shaft and the starter.
4. Unhook the cooler lines, dipstick & tube, shifter, and any harnesses that may be attached to the transmission.
5. Using a transmission jack to support the weight of the transmission, remove the crossmember and bellhousing bolts holding the transmission to the engine block.
6. Carefully remove the transmission and converter from the block and lower them from the car.
7. Take this time to check the flex plate for any cracks, chipped teeth, or other signs of wear that might warrant replacing the flex plate.
8. Bring the transmission and converter out from underneath the car.
9. Take the new converter and hold it up against the motor & flex plate to confirm proper fitment. Ensure that the converter pads are sitting flat against the flex plate simultaneously and the pilot of the converter is engaged with the crank by at least a 1/8in.
10. Once you have confirmed the converter properly fits the engine, add a quart of NEW transmission fluid to the new converter.
11. Carefully install the converter into the transmission. Listen for 3 distinct clicks as the converter goes all the way onto the transmission. (Standing the transmission on the tail shaft may help with this step) Use the following measurements to confirm the converter is seated all the way into the transmission.



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- a. GM TH350/Powerglide: 1.125" from bellhousing to converter pads.
  - b. GM TH400: 1.187" from bellhousing to converter pads.
  - c. GM 700R4/4L60E/2004R: 1.125" from bellhousing to converter pads.
  - d. GM 4L80E: 1.030 from bellhousing to converter pads.
  - e. Ford C6/C4: 1.125" from bellhousing to converter pads.
  - f. Ford AODE: 1.030" from bellhousing to converter pads.
  - g. Ford AOD: 1.000" from bellhousing to converter pads.
  - h. Chrysler 727: 1.250" from bellhousing to ring gear
    - i. Distances may vary plus or minus .050"
12. Remove any debris, dirt, or other material from the crankshaft pilot hole and lubricate it using anti-seize. Clean and lubricate the dowel pins with anti-seize as well.
  13. Slide the transmission & converter back underneath the car and place them on the transmission jack. Raise the transmission up to the block.
  14. Carefully align the dowel pins (and converter studs if any) with the block and mount the transmission to the block. DO NOT use bellhousing bolts to pull the transmission up to the engine, make sure the bell is perfectly flat against the engine before tightening any bellhousing bolts. **Note: Any damage caused by improper transmission or torque converter installation is not covered under warranty and will be subject to additional charges to repair.**
  15. After the bell housing bolts are tight, check to make sure the converter can spin by hand in the transmission and crank. If not, please contact FTI for additional assistance.
  16. Align the converter bolt holes on the converter with the bolt holes on the flex plate. (Some applications may only use 3 of the 6 flex plate bolt holes)
  17. Using feeler gauges, calipers, or a drill bit, measure the gap between the converter and the flex plate. Converter spacing should be between **1/8" and 3/16" (.125" to .187")**. If converter spacing is larger than spec, add shims to each bolt until converter spacing is correct. If converter spacing is too small, please contact FTI technical support for additional assistance.
  18. Reinstall your cross member, driveshaft, starter, shifter cable, cooler lines, dipstick & tube, harness, etc.
  19. Add the appropriate amount of new fluid and complete the fluid filling procedure that applies to your transmission

**Note: No break-in period is required for any of FTI's torque converters.**