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Dodge Hemi 45RFE to Chevy Automatic Transmission

Disclaimer - Please Read Carefully

WARNING: Due to the nature of engine and transmission swaps, we cannot guarantee fitment into your vehicle without having to make mild to extensive modifications. This should be considered when starting your project. It is highly recommended to take the time to research any potential issues you may face prior to starting your build. There are numerous forums and websites that can help and give insight into any potential issues involved in the project. This project is not for a novice mechanic. If an individual is not confident in performing such extensive vehicle modifications, Speed Gems recommends finding a capable shop for assistance.

Prior to and during installation of your new Speed Gems Transmission Adapter Kit, always ensure to:

- Clean everything, including all components and surfaces.
- Use proper torque and **Loctite all bolts.**
- Do not force anything and begin all bolts by hand before using any tools. This will prevent cross-threading.
- Check all bolt clearances.

We try to make everything as simple as possible to help you, but the ultimate responsibility as to the assembly of the kit is up to the installer.

If you have any additional questions, please contact us by phone (763) 767-4480 during business hours or email sales@transmissionadapters.com at any time.

COMPONENTS INCLUDED IN KIT

(1) Adapter Plate - Dodge to Chevy
(1) Flexplate Adapter
(1) Top Steel Bar Assembly
(2) SHCS 3/8-16 x 1 LH
(4) FHSCS 5/16-18 x 1
(2) HCS 3/8-16 x 1
(2) SHCS 3/8-16 x 1-1/2
(3) SHCS M10-1.50 X 35 – Starter Bolts
(4) HCS 3/8-16 x 1-1/4
(1) HCS 3/8-16 x 3/4
(4) Short GM Metric Torque Converter Bolt
(3) Long GM Metric Torque Converter Bolt
(1) Crank Adapter – Hemi to Chevy LS
(2) Dowel Pin .620 x 1



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APPLICATION NOTES

This kit is designed for Dodge Hemi engine applications. NOTE, There are 2 versions of the kit. One works with the Transmission from the Chevy LS-series engines and the other works with common Chevy Automatic Transmissions – i.e.-TH350/TH400/700R4, etc.

Please ensure the correct Kit is ordered!

This kit is for applications with Chevy LS-series Transmissions bolting to the Dodge 5.7L & 6.1L Hemi engines. *This kit allows for the stock Hemi flexplate and starter to be used.*

INSTALLATION INSTRUCTIONS

1. Once the transmission is removed, clean the back surface of the block where the adapter will contact. Make sure both alignment dowels are in place.
2. Place the bellhousing adapter plate onto your engine over the original dowel pins. Fasten the plate to the block using the provided hardware.

The flathead screws go through the adapter plate into the block under the steel bar.

The socket-head screws go through the adapter plate into the block at the next 2 bellhousing bolt holes down on the block. There is one bolt that screws in from the other side of the plate.

3. Attach the torque converter adapter onto your stock Chevy torque converter using the provided M10 x 1.5 GM metric converter bolts. The 3 long bolts fasten the torque converter adapter to the torque converter.

NOTE: There are 2 sets of bolt holes in the torque converter adapter to allow for fit-up to both GM torque converter patterns. If planning to use a 4L80E with 6 bolts, then either use just 3 of the bolt holes or drill 3 new ones.

4. Bolt the new converter assembly to the stock Dodge Hemi flexplate.

NOTE: Check the threads carefully to make sure you use the correct bolts.

5. With the stock Dodge Hemi flexplate installed, fit the torque converter (with adapter bolted to it and not in the transmission at this time) to the crankshaft. This is done to make sure that, with everything in place, it can be pushed up to the flexplate with no interference.

6. Install the converter into the transmission (make sure that it is spun into the transmission all the way) and bolt the transmission to the engine.

NOTE: When the transmission is bolted to the engine, the converter must have some free play, approximately 1/8" to 3/16". If there is none, DO NOT CONTINUE, STOP and find out why.

Ensure to use loctite on the bolts holding the converter spacer to the flexplate.

7. Re-assemble using the stock Dodge Hemi starter that came with your engine.

Speed Gems would like to THANK YOU for purchasing our products!

We would love to see pictures of our products installed on your Hotrod. Please tag us on our social media or send a picture to sales@transmissionadapters.com and we will get your project posted on our website.



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