



## INSTALLATION INSTRUCTIONS

# DIRECT CONNECTION 1320 TORQUE CONVERTER KIT

PART NUMBER: PW100053AA

OFF ROAD OR RACING USE ONLY

[www.dcperformance.com](http://www.dcperformance.com)



TO PREVENT SERIOUS INJURY AND PROPERTY DAMAGE, YOU SHOULD READ, UNDERSTAND AND FOLLOW THE WARNINGS AND INSTRUCTIONS IN THIS MANUAL **PRIOR** TO INSTALLATION.  
FOR ASSISTANCE CONTACT **DIRECT CONNECTION TECH HOTLINE 1-800-998-1110**



### Bill of Materials

| Part Description       | Part Number | Service Part | Quantity |
|------------------------|-------------|--------------|----------|
| Torque Converter       | 68467212AA  | Yes          | 1        |
| Torque Converter Bolts | 06509361AA  | Yes          | 6        |
| Installation Sheet     | KQ865106AA  | Online       | 1        |

Verify all contents listed within the Bill of Materials are included within the kit before proceeding with installation.

Contact Power Broker Dealer or Tech Hotline with issues regarding kit contents.

### Special Tools Necessary for Install

| Tool Description | Part Number | Source  |
|------------------|-------------|---------|
| Torque Wrench    | Various     | Various |

## Contents

|  |   |
|--|---|
| IMPORTANT SAFETY AND EMISSIONS INFORMATION ..... | 3 |
| ESTIMATED STALL SPEEDS.....                      | 5 |
| TORQUE CONVERTER KIT INSTALLATION.....           | 5 |
| TORQUE CONVERTER .....                           | 5 |
| OPTIONAL PARTS.....                              | 6 |
| LUBRICATION & CAPACITIES .....                   | 6 |

## IMPORTANT SAFETY AND EMISSIONS INFORMATION

### **WARNING**

To prevent SERIOUS INJURY or DEATH:

- ALWAYS wear eye protection and appropriate protective clothing. You may be exposed to flammable, corrosive and hazardous liquids and materials when handling automotive components.
- ALWAYS secure the vehicle with the parking break or wheel chock before working on a vehicle.
- If you raise the vehicle, securely support the vehicle using jack stands before working under the vehicle.
- Make sure you or the installer has the appropriate skills and the tool required to safely install the supercharger.
- If you do not understand the instructions, call Direct Connection Tech Hotline for assistance at 1-800-998-1110
- DO NOT connect battery until all connections are made.

DO NOT start or run an engine in a closed garage or in confined area. Exhaust gases contain Carbon Monoxide (CO), which is odorless and colorless. Carbon Monoxide is poisonous and can cause serious injury or death when inhaled.

Follow the precautions below to prevent Carbon Monoxide poisoning:

- DO NOT inhale exhaust gases.
- NEVER run the engine in a closed area, such as a garage, and never sit in a parked vehicle with the engine running for an extended period.



### EMISSIONS STATEMENT

#### Intended Use:

Unless otherwise noted, Direct Connection Parts and Kits are designed only for installation in:

1. Any motor vehicle manufactured prior to model year 1976, and
2. In any vehicle that lacks features customarily associated with safe and practical highway use that is not operated on a street or highway.

It may be a violation of federal law subject to civil penalty to install a Direct Connection supercharger kit in any motor vehicle designed for transport on a street or highway that was manufactured in model year 1976 and later.

#### Operation and Use Limitations:

- Federal and California law prohibit tampering with emissions control equipment or components required to be equipped on Motor Vehicles. This means that persons may not remove or render inoperative any device or element of design that impairs the emissions of such Motor Vehicles. Violators of this prohibition may be subject to civil penalty.
- Direct Connection superchargers may not be used in place of a regulated or certified non-road supercharger (such as in marine applications).

Direct Connection customers are responsible for complying with applicable federal state and local environmental laws and regulations. Many Direct Connection and Mopar Performance parts and components are designed to be equipped in vehicles that are operated not on streets or highways (such as vehicles intended for competition or off-road use). Motor Vehicles designed for transport on streets or highways and equipped with such parts may cause such Motor Vehicles to be out of compliance with applicable emissions standards. It may be a violation of federal and state law to operate such Motor Vehicles equipped with such parts, except where vehicles equipped with such parts are operated not on streets or highways and where such vehicles lack features customarily associated with safe and practical highway use.

If you install such parts on a Motor Vehicle, and your Motor Vehicle fails a required state or local inspection and maintenance (I/M) emissions test, including any test required to maintain or renew your Motor Vehicle's registration, or if your Motor Vehicle is subject to an emissions recall, in either case FCA US LLC may not be required to repair your Motor Vehicle under the emissions warranty, and you may be required to remove those parts and replace them with other parts at your own expense in order to obtain repairs necessary to pass the I/M emissions test or to ensure your Motor Vehicle is compliant with applicable emissions standards after the recall repair.

## ESTIMATED STALL SPEEDS

K-FACTOR: 179

| ENGINE TORQUE [FT-LB] | STALL SPEED |
|-----------------------|-------------|
| 717                   | 4800        |
| 656                   | 4600        |
| 475                   | 3900        |
| 417                   | 3650        |

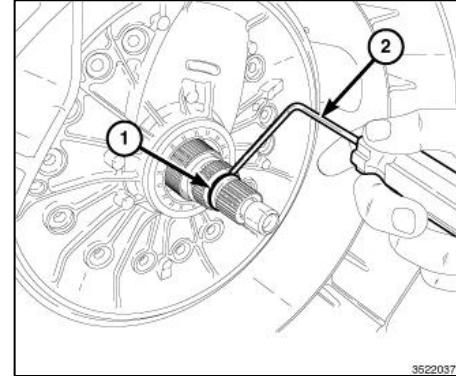
## TORQUE CONVERTER KIT INSTALLATION

The following instructions assume an installation onto an 8HP70 Automatic Transmission. Instructions may vary based on application. Off-road use only.

### TORQUE CONVERTER

**NOTE:** Check the torque converter hub for sharp edges, burrs, scratches, or nicks. Polish the hub with 320/400 grit paper or crocus cloth if necessary. The hub must be smooth to avoid damaging the pump seal during installation.

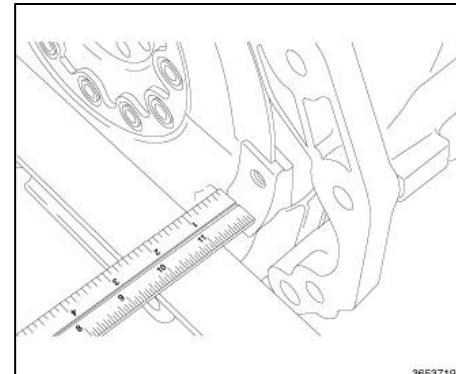
1. Lubricate the oil pump seal lip with transmission fluid.
2. Check the input shaft O-ring (1) for any damage. Replace if necessary



3. Place the torque converter in position on the transmission

**CAUTION:** Do not damage oil pump seal or converter hub while inserting torque converter into the front of the transmission.

4. Align the torque converter to the oil pump seal opening.
5. Insert the torque converter hub into the oil pump drive gear.
6. While pushing the torque converter inward, rotate the torque converter until the torque converter is fully seated into the oil pump drive gear.
7. Check the torque converter seating with a scale and straightedge. The surface of the torque converter lugs should be at least 19 mm (3/4 in.) to the rear of the straightedge when the torque converter is fully seated.
8. If necessary, temporarily secure the torque converter with a C-clamp attached to the torque converter housing.
9. Install the transmission & fill with fluid



## OPTIONAL PARTS

| Part Description                  | Part Number | Quantity Needed | Source            |
|-----------------------------------|-------------|-----------------|-------------------|
| 345 (5.7L) Crate HEMI Engine      | 68303088AC  | 1               | Direct Connection |
| 392 (6.4L) Crate HEMI Engine      | 68303090AC  | 1               | Direct Connection |
| Hellcrate 6.2L HEMI Engine        | 68303089AC  | 1               | Direct Connection |
| Hellcrate Redeye 6.2L HEMI Engine | 68303091AC  | 1               | Direct Connection |
| Hellcrate Flexplate Kit           | PW100054AA  | 1               | Direct Connection |
|                                   |             |                 |                   |

## LUBRICATION & CAPACITIES

| Description          | Capacity   | Type   | Part Number |
|----------------------|--|--|-------------|
| 8HP70 Overhaul Fill* | 9.0 Quarts / 8.50 Liters<br>(Dodge Challenger LA Vehicle)  | Use only MOPAR ZF 8&9 Speed ATF Automatic Transmission Fluid, or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission. | 68218925AA  |
| 8HP90 Overhaul Fill* | 9.17 Quarts / 8.68 Liters<br>(Dodge Challenger LA Vehicle) | Use only MOPAR ZF 8&9 Speed ATF Automatic Transmission Fluid, or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission. | 68218925AA  |
|                      |  |  |             |

\* Dry fill capacity. Depending on type and size of internal cooler, length and inside diameter of cooler lines, or use of an auxiliary cooler, these figures may vary. Refer to the appropriate service information for the correct procedures.

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