



INSTALLATION INSTRUCTIONS
DIRECT CONNECTION HELLCRATE CLUTCH KIT

PART NUMBER: PW100051AA
 OFF ROAD OR RACING USE ONLY

www.dperformance.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
Clutch Kit, Pressure Plate and Disc	05038769AB	Yes	1
Clutch Mounting Bolts	06508880AA	Yes	6
Clutch Release Bearing/Slave Cylinder	05038118AB	Yes	1
Clutch Release Bearing/Slave Cylinder Bolts	06100296	Yes	2
Pilot Bearing	53009180AB	Yes	1
Installation Sheet	KQ865102AA	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
Clutch Alignment Tool	10018A	Mopar Essential Tool Catalog

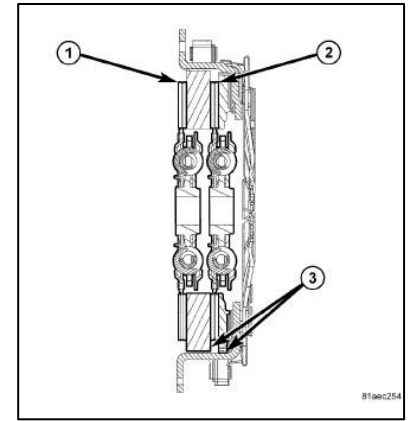
Contents

DESCRIPTION	3
IMPORTANT SAFETY AND EMISSIONS INFORMATION	3
CLUTCH KIT INSTALLATION.....	5
PILOT BEARING	5
CLUTCH AND PRESSURE PLATE ASSEMBLY	5
CLUTCH RELEASE BEARING.....	6
OPTIONAL PARTS.....	7
LUBRICATION & CAPACITIES	7
OCTANE RECOMMENDATION	Error! Bookmark not defined.

DESCRIPTION

The clutch is a dual disc design. One disc (1) is independent of the pressure plate, located between the pressure plate and flywheel. The second disc (2) is an internal component located between the pressure plates (3) and cannot be serviced separately.

NOTE: If either clutch disc or pressure plate is worn or damaged, the independent disc and pressure plate must be replaced as an assembly.



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.

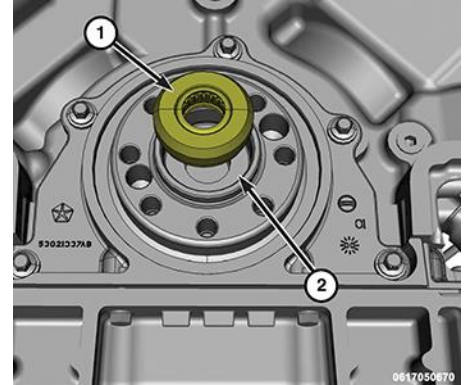
If you install such parts on a Motor Vehicle, and your Motor Vehicle fails a required state or local inspection and maintenance (I/M) emissions test, including any test required to maintain or renew your Motor Vehicle's registration, or if your Motor Vehicle is subject to an emissions recall, in either 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.

CLUTCH KIT INSTALLATION

The following instructions assume an installation onto a 6.2L Hellcat Engine. Instructions may vary based on application.
Off-road use only.

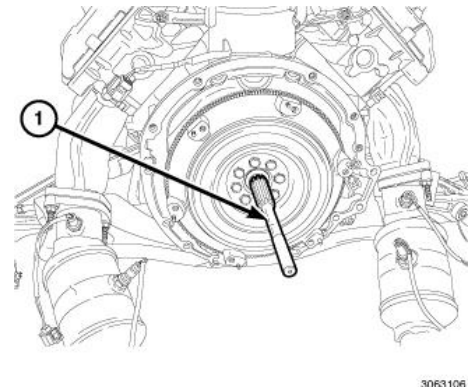
PILOT BEARING

1. Clean the pilot bearing bore with solvent and wipe dry with shop towel.
NOTE: Letter side of the pilot bearing must face the transmission
2. Install the new the pilot bearing (1) with Clutch Alignment Tool 10018. Keep the pilot bearing straight during installation. Do not allow the pilot bearing to become cocked. Tap the pilot bearing into place until it is flush with the edge of the pilot bearing bore (2). Do not recess the pilot bearing.

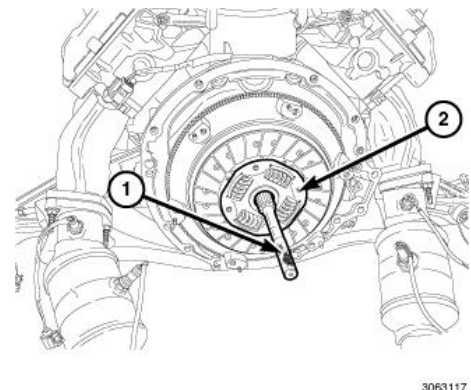


CLUTCH AND PRESSURE PLATE ASSEMBLY

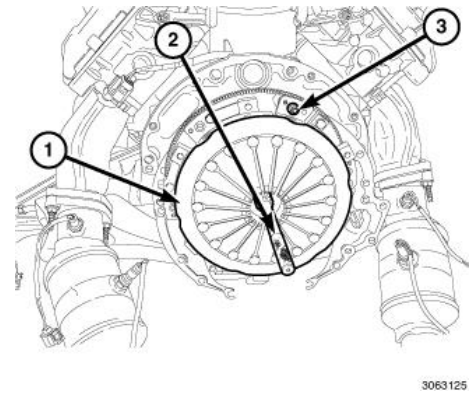
1. If removed, install the flywheel
NOTE: If the flywheel is replaced or removed apply thread sealer to the NEW flywheel retaining bolts. This will prevent engine oil from leaking onto the clutch. These part numbers are listed at end of this document.
2. Insert the Clutch Alignment Tool 10018 (1) into the pilot bearing



3. Install the independent clutch disc (2) over the Clutch Alignment Tool 10018 (1) and position against the flywheel.



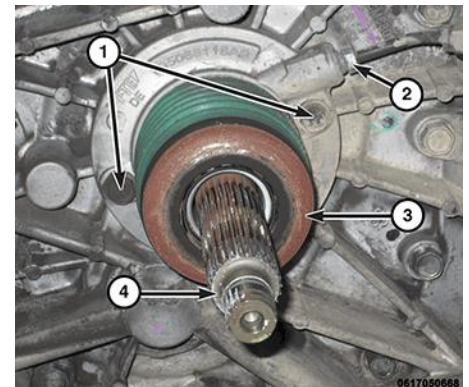
4. Install the clutch pressure plate assembly (1) over the Clutch Alignment Tool 10018 (2) up against the flywheel and onto the dowel pins
NOTE: If a new flywheel is installed, align cover balance paint spot as close as possible to flywheel balance paint spot.
5. Tighten the NEW clutch pressure plate assembly bolts (3) a few turns at a time in a star pattern until the bolts are seated. Then tighten the clutch pressure plate assembly bolts in star pattern to 75 Nm (55 ft.-lbs.).
CAUTION: Bolts must be tightened evenly in a star pattern and to specified torque to avoid warping pressure plate cover.
6. Remove the clutch disc alignment tool (2)
7. Apply small amount of generic spline lubricant to the transmission input shaft spline and release bearing slide surface of the transmission front bearing retainer.
CAUTION: Do not over lubricate shaft splines. Failure to follow these instructions will cause contamination of disc.



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CLUTCH RELEASE BEARING

1. Position the clutch release bearing/slave cylinder (3) over input shaft (4).
2. Install the clutch release bearing/slave cylinder bolts (1) tighten to 28 Nm (21 ft.-lbs.).
3. Install the transmission.
4. Bleed the clutch system.



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CLUTCH SYSTEM BLEED PROCEDURE

NOTE: Be certain the clutch pedal returns to the upper most position while bleeding the clutch system.

NOTE: It may take as many as two hundred strokes of the clutch pedal to properly bleed the clutch system

1. Check the fluid level in the brake master cylinder reservoir. If the brake fluid level is not up to the step in the reservoir, add brake fluid.
2. Slowly depress the clutch pedal. If the pedal feels spongy, air is present in the clutch hydraulic system.
3. Continue checking the fluid level while depressing and releasing the clutch pedal. Depress and release the clutch pedal until an appropriate clutch pedal response and feel is achieved.

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 Flywheel kit	PW100052AA	1	Direct Connection
Tremec Magnum Transmission Kit	PW100003AB	1	Direct Connection

LUBRICATION & CAPACITIES

Description	Capacity	Type	Part Number
TREMEC TR6060 (6.2L Engine)	4.2 Quarts / 3.9 Liters (Dodge Challenger LA Vehicle)	We recommend you use MOPAR ATF+4 Automatic Transmission Fluid.	68218057AB
TREMEC TR6060 (5.7L & 6.4L Engine)	3.4 Quarts / 3.2 Liters (Dodge Challenger LA Vehicle)	We recommend you use MOPAR ATF+4 Automatic Transmission Fluid.	68218057AB
Brake Master Cylinder	Fill Line	We recommend you use MOPAR DOT 3, SAE J1703. If DOT 3 brake fluid is not available, then DOT 4 is acceptable	04318080AD

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