

dodson[®]

INSTALLATION INSTRUCTIONS

DL800 SUPERSTOCK

DMS-00-0034 REVISION 007

21 JUNE 2022

**PREPARED BY: JAN PISL
DATE: 20MAY2022**

**RELEASED BY: 
DATE: 21JUN2022**

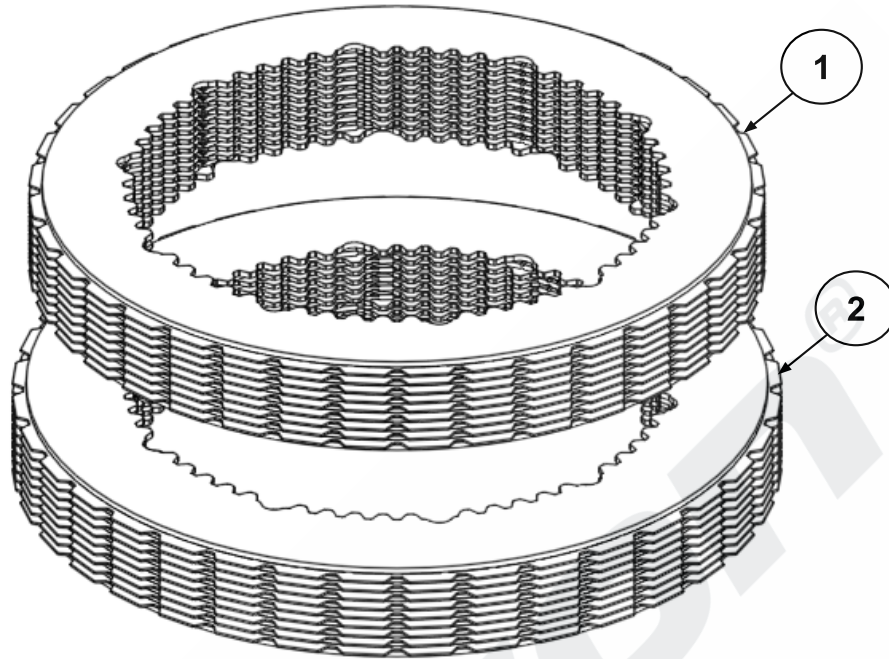
REVISION UPDATE NOTES:

The following table indicates the changes we have made in either the disassembly or assembly of the product you have received. All changes are indicated by a revision bar in the margin.

If you have any questions email us at technical@dodsonmotorsport.com

| Revision | Date | Description |
|-----------------|-------------|---|
| REV.007 | 21JUN2022 | <ul style="list-style-type: none">- Revised formatting- Rewrote some steps for improved clarity.- Added machined bottom plate info.- Added note to last page. |
| REV.006 | 01JUL2021 | <ul style="list-style-type: none">- The OEM large basket circlip is now being used.- Stacks will come pre assembled in the correct build order.- A 1.6mm Steel without scallops will be used against the clutch core. |

DL800 SUPERSTOCK KIT CONTENTS (DMS-8049)

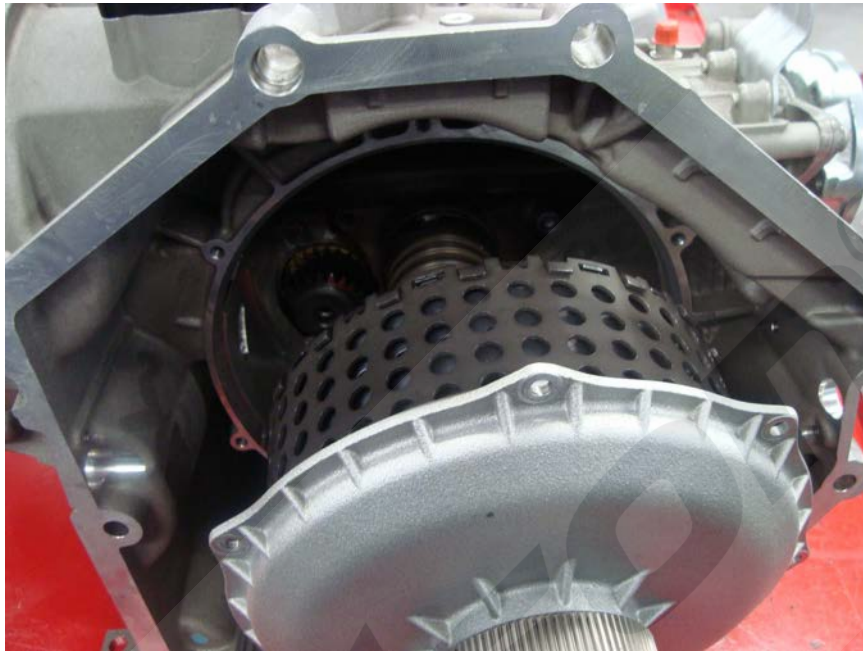


| Item Number | Part Name | DMS Code | Qty |
|-------------|----------------|----------|-----|
| 1 | R8 Small Stack | DMS-8116 | 1 |
| 2 | R8 Large Stack | DMS-8115 | 1 |

DL800 SUPERSTOCK INSTALLATION INSTRUCTIONS DISASSEMBLY

STEP 1

Remove the bolts from the aluminum clutch cover and pull the clutch unit out of the transmission.



STEP 2

Place a pen mark on the large outer basket and clutch lid to indicate the relative rotational position of both components. This is necessary to ensure the correct reassembly of the clutch.



**MARK
LOCATION OF
LID RELATIVE
TO BASKET**

STEP 3

Remove the circlip holding the large outer basket and lid. We will be using this when re-assembling the clutch.



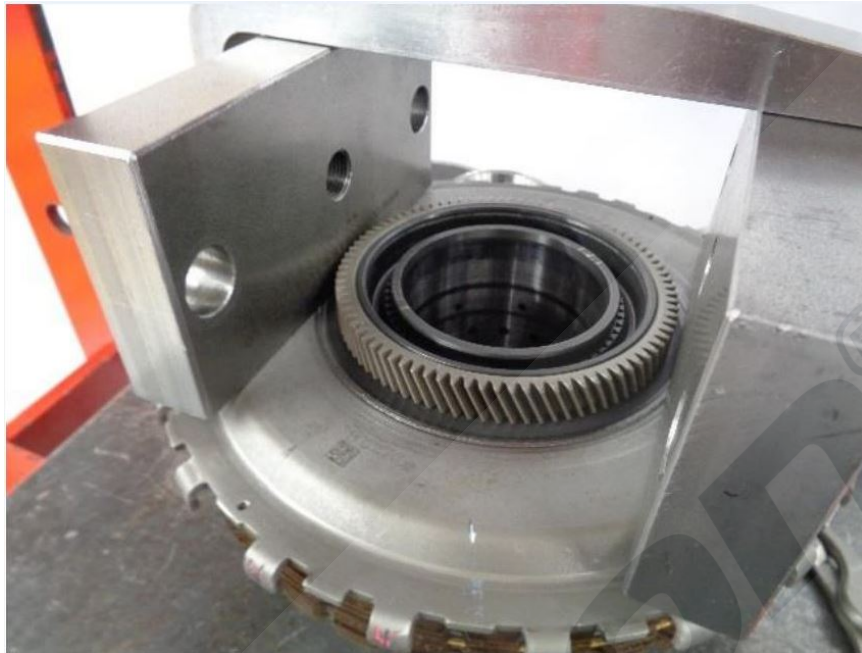
STEP 4

Remove the circlip retainer carefully making sure not damaging it. We will be using this when re-assembling the clutch.



STEP 5

Press the lid to remove circlip



STEP 6

Remove the retainer circlip.



STEP 7

Take the clutch core with lid out, remove the lid, keep the pistons and spring together.



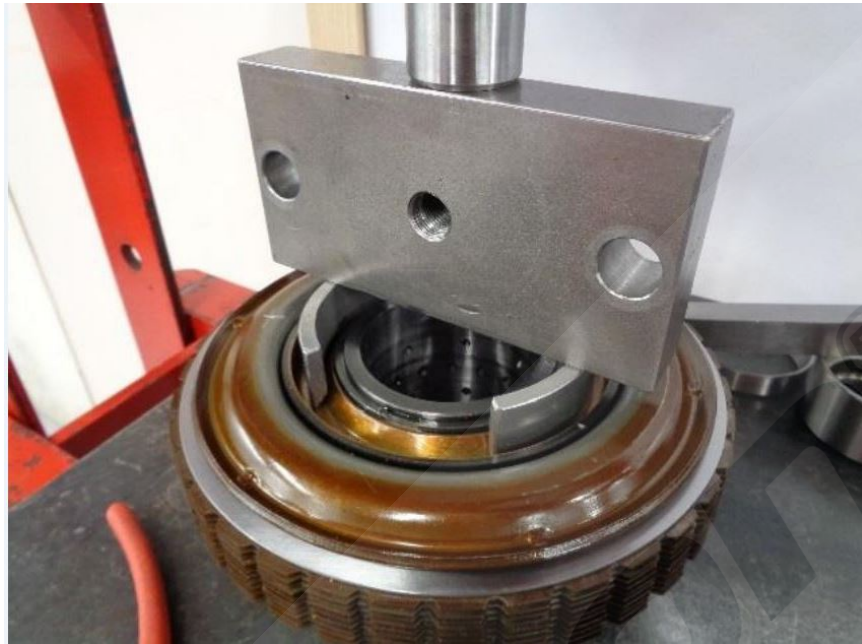
STEP 8

Keep the bearings from the clutch baskets.



STEP 9

Press the piston from the basket side.



STEP 10

Remove the circlip and take the basket-side piston out. Keep the piston and springs for further assembly.



STEP 11

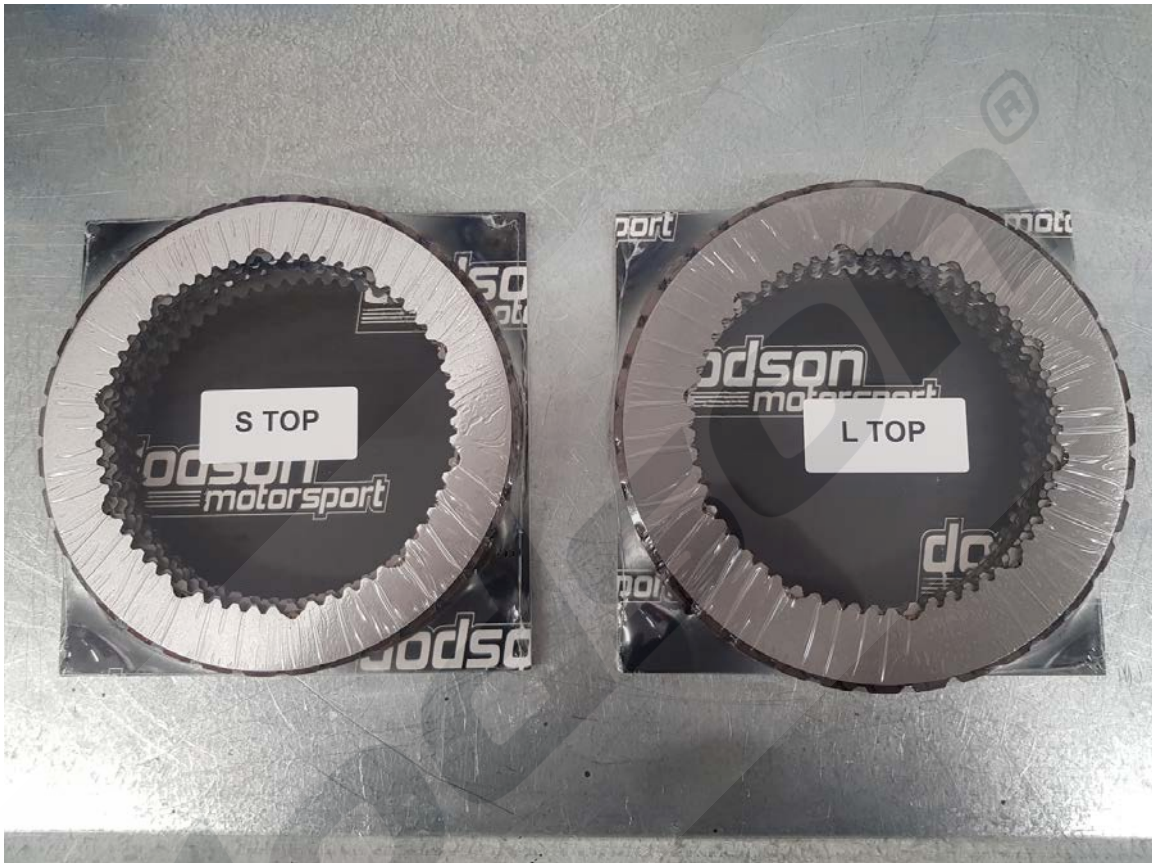
Remove the OE clutch stacks from the clutch core. Clean and keep OE clutch core ready for further assembly.



ASSEMBLY INSTRUCTIONS

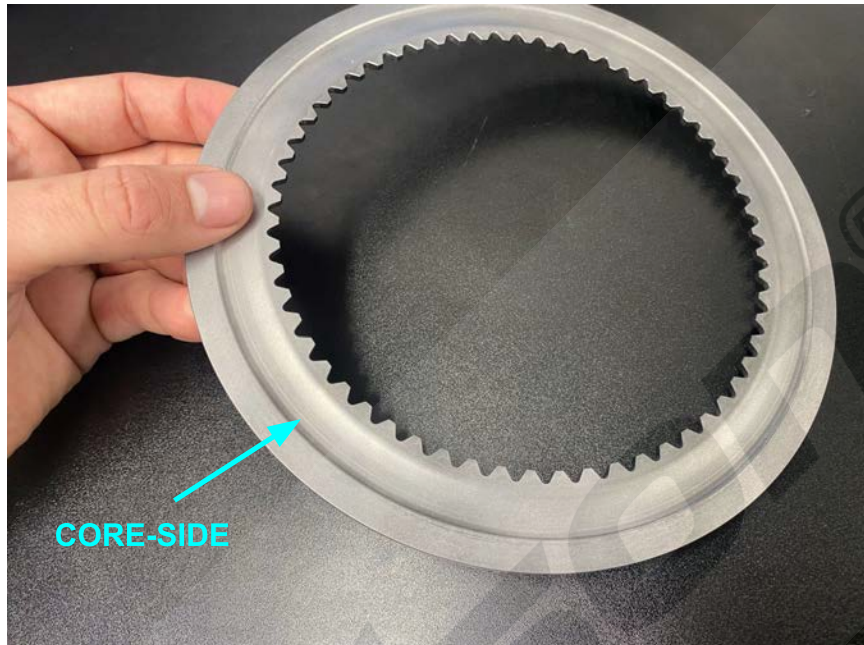
NOTE: HANDLE THE STACK WITH CARE. SOAK THE FRICTIONS IN OIL BEFORE ASSEMBLY

Upon receiving your clutch stacks, they will be labeled “S TOP” and “L TOP”. This indicates the pre-assembled orientation that the large stack and small stack should be installed. The thinnest plates will be located in the middle of the stack with the thickest plates on the outside (top and bottom of the stack). The steel mating plate thickness may vary between stacks to produce the correct total stack thickness and result in the desired clutch clearance.



STEP 1

Start by assembling the small stack first, bottom to top. The machined bottom plate runs against the core (this is the bottom of the stack). Ensure the flat face is facing upwards, with the contoured face being placed directly against the core. (this is the bottom of the stack). A friction will then follow the mating plate.



STEP 2

The rest of the mating plates include scallops.

Locate the mating plate with the scallop cutaway over the oil hole.



STEP 3

The final steel mating plate will cap the oil hole.



**COMPLETED
SMALL
STACK**

STEP 4

Install the piston return springs, as indicated below.



STEP 5

Lube the small piston and fit it in the large clamp ring before placing both components into the clutch core as shown below. Lubing the components allows for easy assembly and prevents damage to the seals.



STEP 6

Compress the piston and spring assembly using a hydraulic press to allow for the installation of the circlip as shown in the images below. Use the OEM circlip that came with the clutch core.



STEP 7

Invert the clutch core and repeat the procedure followed for the small stack in the assembly of the large stack.

Again, ensure:

- The billet bottom plate is against the core and in the right orientation.
- The mating plates with scallops have the holes aligned with the core.



STEP 8

Install spring on the large side as shown in the images below.



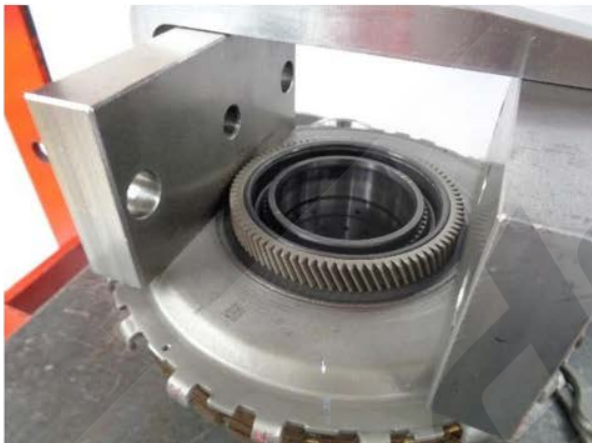
STEP 9

Lube the large piston and fit it in the large clamp ring before placing both components into the clutch core as shown below. Install the OEM clutch lid on top.



STEP 10

Place the external circlip as shown below then press the lid and piston assembly and install the circlip.



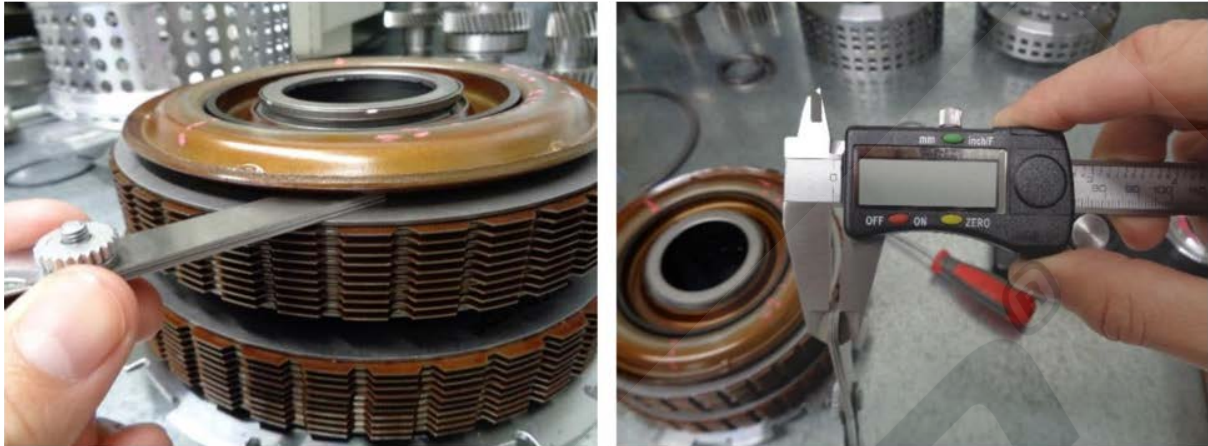
STEP 11

Install the circlip retainer, ensuring the tabs lock into the circular groove.



STEP 12

Using feeler gauges as shown in figure, measure the clearance **between the piston and the top plate** of the stack for both the lid-side and non lid-side clutch stacks.



CLEARANCE FOR BOTH CLUTCHES SHOULD BE: 3.4mm +/- 0.2mm

If reaching this clearance is not possible, please contact us at technical@dodsonmotorsport.com

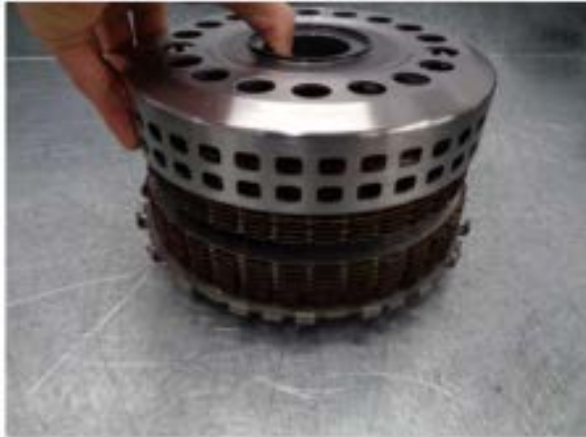
STEP 13

Assemble the OE large bearing on the clutch core. Make sure you assemble the bearing as shown in the image below. If assembled upside down, it will result in damage to the clutch.



STEP 14

Position the OEM small inner basket on the clutch core. Ensuring clutch plates are aligned to facilitate ease of installation.



STEP 15

Assemble the OE small bearing on the small basket. If it is placed upside down it will result in damage to the clutch.



NOTE: DO NOT PLACE THE OEM SHIM/WASHER UNDER THE BEARING.

STEP 16

Assemble the OEM Large basket on the clutch.



STEP 17

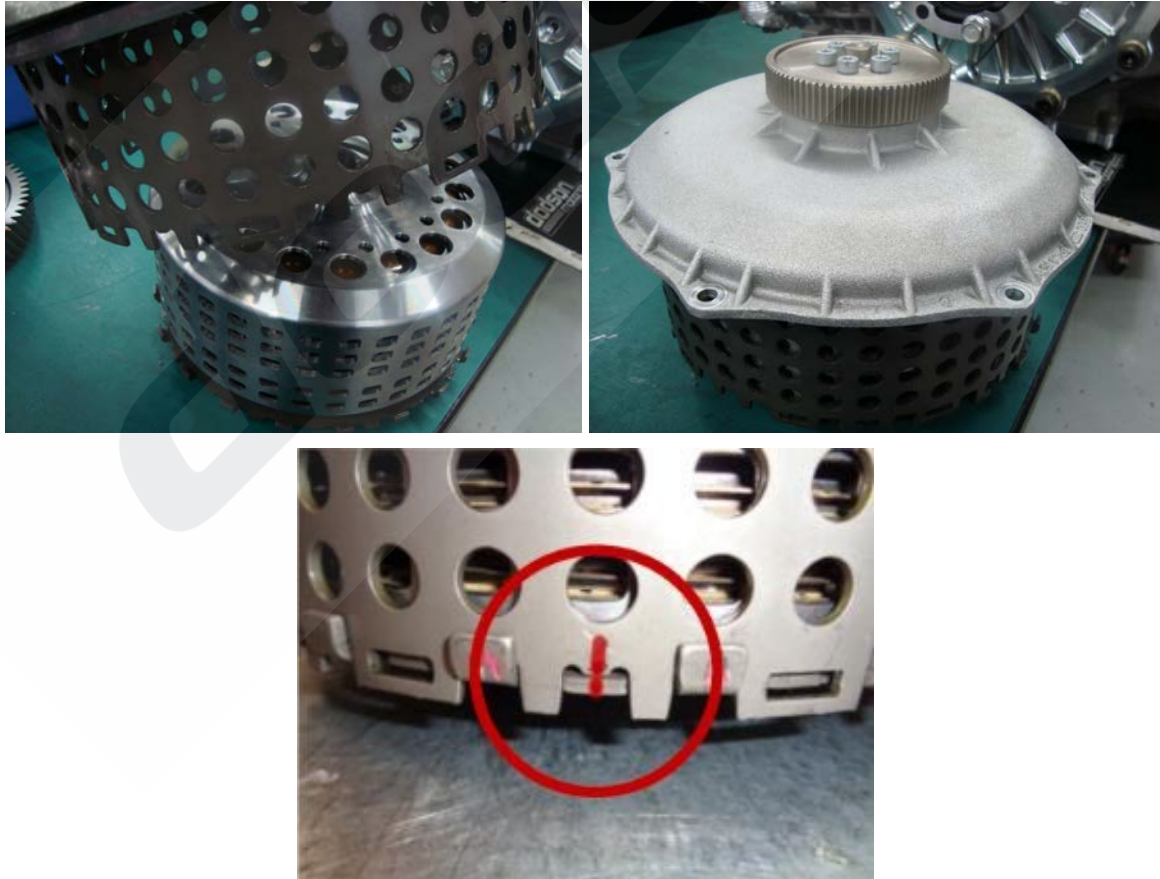
Make sure the OE small bearing is assembled on the clutch as shown. If it is placed upside down it will result in damage to the clutch.



NOTE: DO NOT PLACE THE OEM SHIM/WASHER UNDER THE BEARING.

STEP 18

Install the large outer basket as shown in image below, taking care to align the basket and clutch lid using the locating mark created earlier.



STEP 19

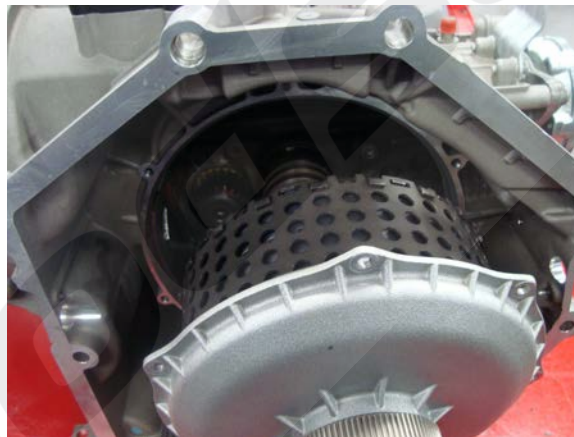
Install the OEM Circlip into the large outer basket to retain the clutch lid in place.



STEP 18

Fit the clutch in the transmission housing while carefully turning it to line up the clutch basket splines with the input shafts. Bolt the clutch cover to the transmission.

Please make sure to check the O-ring on the aluminium clutch cover is correctly seated and not damaged during the final assembly of the clutch.



IMPORTANT NOTE

PLEASE MAKE SURE THAT THE **BASIC SETTING AND ADAPTION DRIVE PROCEDURES ARE SUCCESSFULLY COMPLETED BEFORE USING THE FULL POWER OF THE VEHICLE.**

If you have any questions email us at technical@dodsonmotorsport.com