INSTALLATION INSTRUCTIONS

DL800 HALF SHAFT KIT

DMS-00-0037 REVISION 001

21 JUNE 2022

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DATE: 20MAY2022

RELEASED BY:
DATE: 21JUN2022

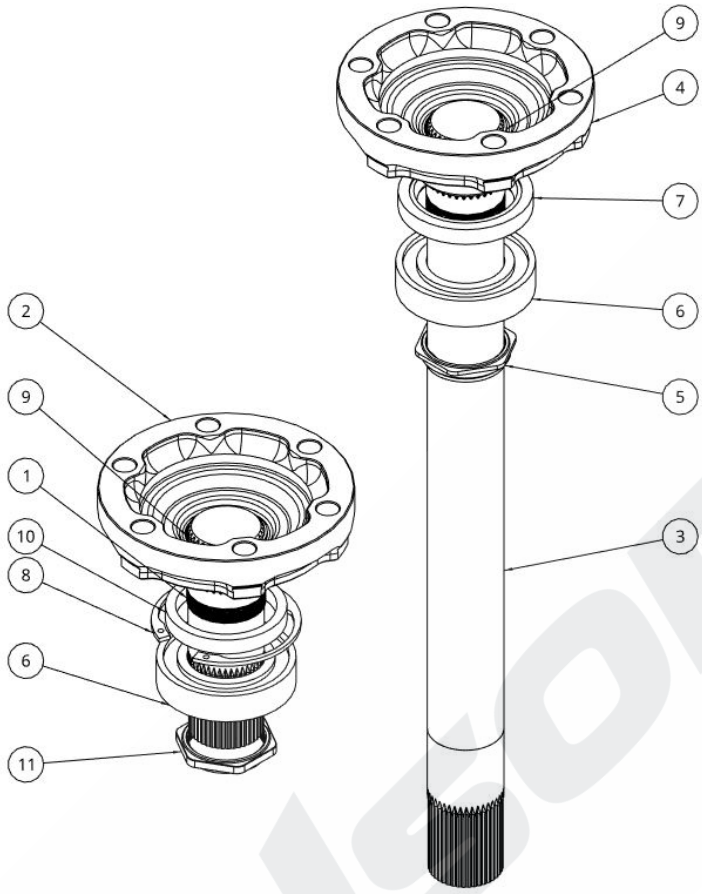
REVISION UPDATE NOTES:

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.001	21JUN2022	-	Initial Release. Note this document was broken out from the combined document of Diff Cover and Half Shaft Instructions (DMS-00-0038)

DL800 HALF SHAFT KIT CONTENTS (DMS-7192)



Item Number	Part Name	DMS Code	Qty
1	Short Half Shaft	DMS-7929	1
2	Short Half Shaft Flange	DMS-7941	1
3	Long Half shaft	DMS-7928	1
4	Long Half Shaft Flange	DMD-7942	1
5	Long Half shaft nut - LH Thread	DMS-0120	1
6	Half shaft Bearing (Same for both)	DMS-1461	2
7	Long Half shaft seal	DMS-1961	1
8	Short Half shaft circlip	DMS-1000	1
9	Circlip	DMS-1001	2
10	Short Half shaft Seal	DMS-1988	1
11	Short Half Shaft Nut - RH Thread	DMS-0083	1

DL800 HALF SHAFT INSTALLATION INSTRUCTIONS
DISASSEMBLY OF LONG HALF SHAFT

STEP 1

Remove the long half shaft with its locating housing by removing the bolts.

Be careful not to damage the O ring on the housing.

STEP 2

Remove the long half shaft circlip.

STEP 3

Press the shaft through.

STEP 4

Remove the OE bearing and seal from the long half shaft locating housing.

ASSEMBLY OF LONG HALF SHAFT

STEP 1

Remove the LH thread nut on the shaft and remove the plastic spacer.

(Please note the red plastic spacer pictured below is no longer used when the part is shipped.)

STEP 2

Press the Dodson bearing (DMS-1461) in the long half shaft locating housing

STEP 3

Press the Dodson long half shaft seal (DMS-1961) in the long half shaft locating housing.

Be careful not to damage the seal during this process. It's better to have the pressing tool diameter around 59 mm.

STEP 4

Fit Dodson long half shaft (DMS-7928) from the seal side.

Be careful not to damage the seal. Keep rotating the housing while assembling the long half shaft housing to install the seal smoothly over the long half shaft.

STEP 5

Hold the half shaft on the vice by using two bolts in the threaded holes in the long half shaft.

Use Dodson half shaft tool to tighten the nut.

STEP 6

Tighten the nut on the long half shaft to **60 Nm**. **Please note that the nut is LH thread.**

STEP 7

Stake the nut into the groove on the half shaft as shown.

Apply grease over the O-ring on the long half shaft locating housing.

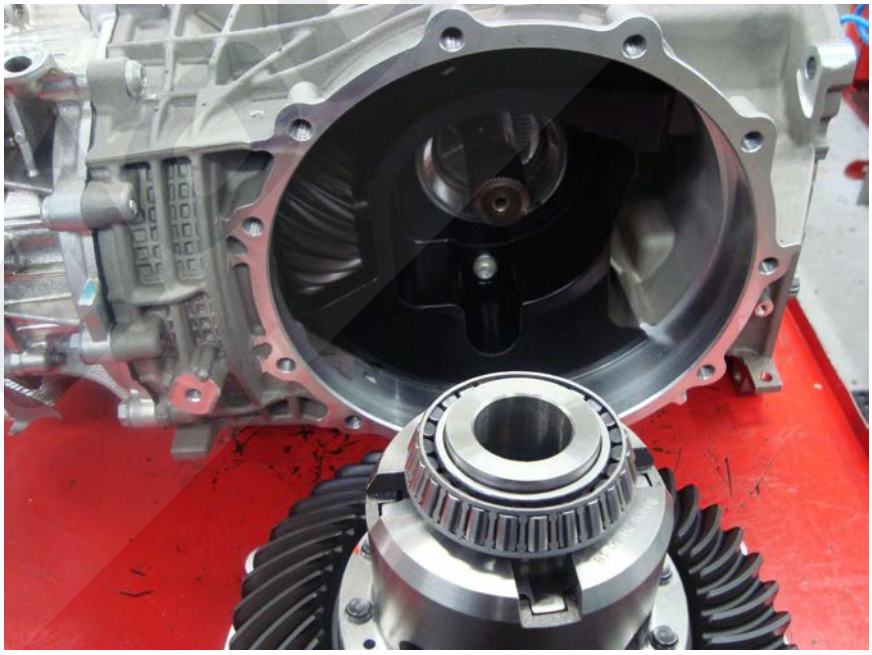
DISASSEMBLY OF SMALL HALF SHAFT

STEP 1

Remove the bolts from the diff cover.

STEP 2

Take the diff cover with differential out of the transmission housing.



STEP 3

Remove the differential from top of the diff cover and remove the circlip on the short half shaft.

STEP 4

Place the diff cover in the press as shown in the picture to remove the short half shaft.

STEP 5

Press the short half shaft out of the cover.

STEP 6

Remove the circlip to remove the OE ball bearing.

STEP 7

Remove the bearing from the diff cover using a press.

STEP 8

Remove the OE seal from the Diff cover.

ASSEMBLY OF SHORT HALF SHAFT

STEP 1

Fit the Dodsonhalf shaft bearing (DMS-1461) in the dIff cover.

STEP 2

Assemble the short half shaft circlip (DMS-1000) to hold the ball bearing in its place.

STEP 3

Fit the Dodson short half shaft seal (DMS-1988) into the diff cover.

STEP 4

Fit Dodson short half shaft (DMS-7929) in the diff cover.

Be careful not to damage the seal during this process. Keep rotating the diff cover while assembling the long half shaft housing to install the seal smoothly over the long half shaft.

STEP 5

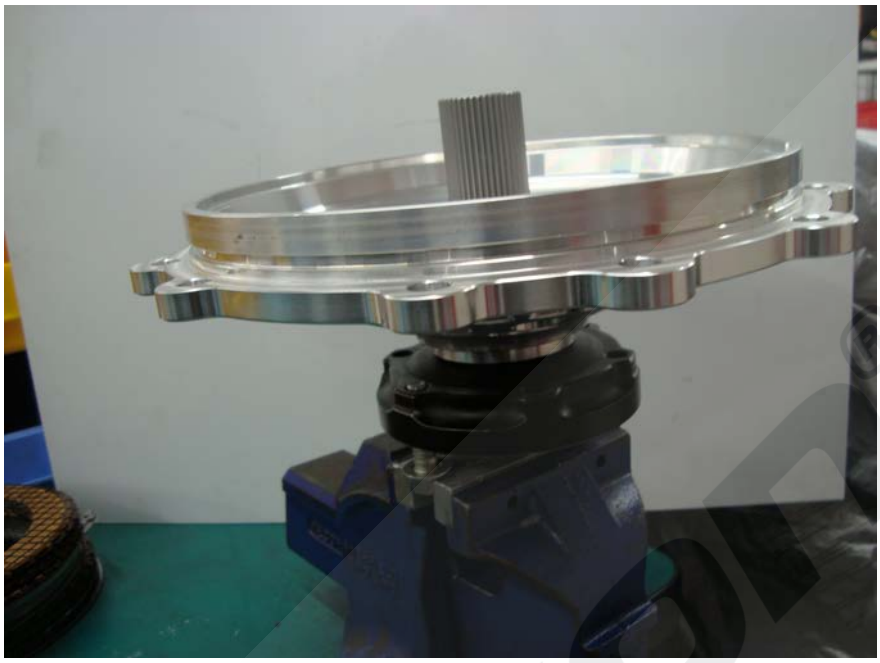
Make sure the threaded part comes out from the other side.

STEP 6

Fit the Dodson short half shaft nut (DMS-0083) over the bearing.

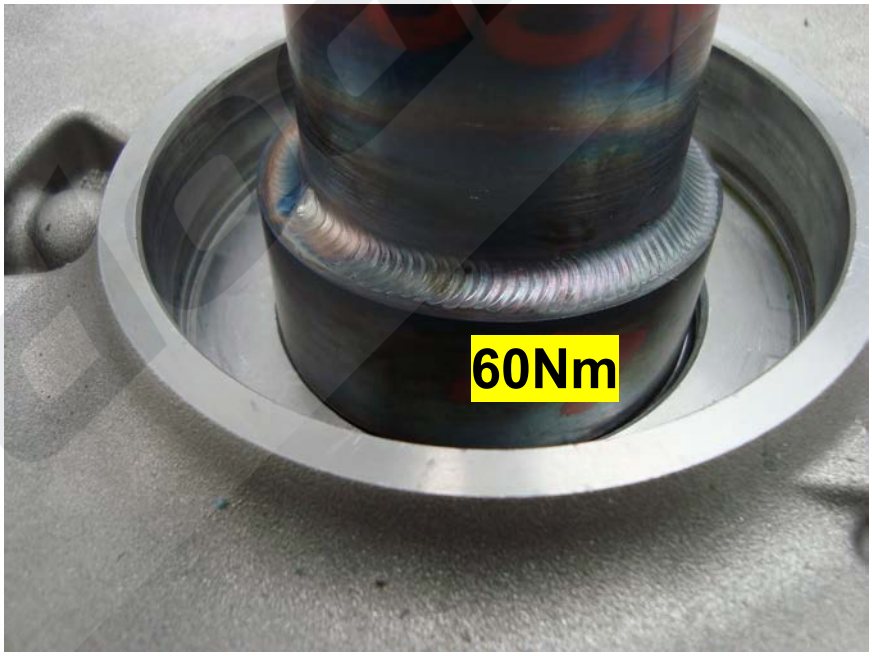
STEP 7

Hold the half shaft on the vice by using two bolts in the threaded holes in the short half shaft flange.



STEP 8

Tighten the nut to **60Nm** using the Dodson tool. **Please note that the nut is RH thread.**



STEP 9

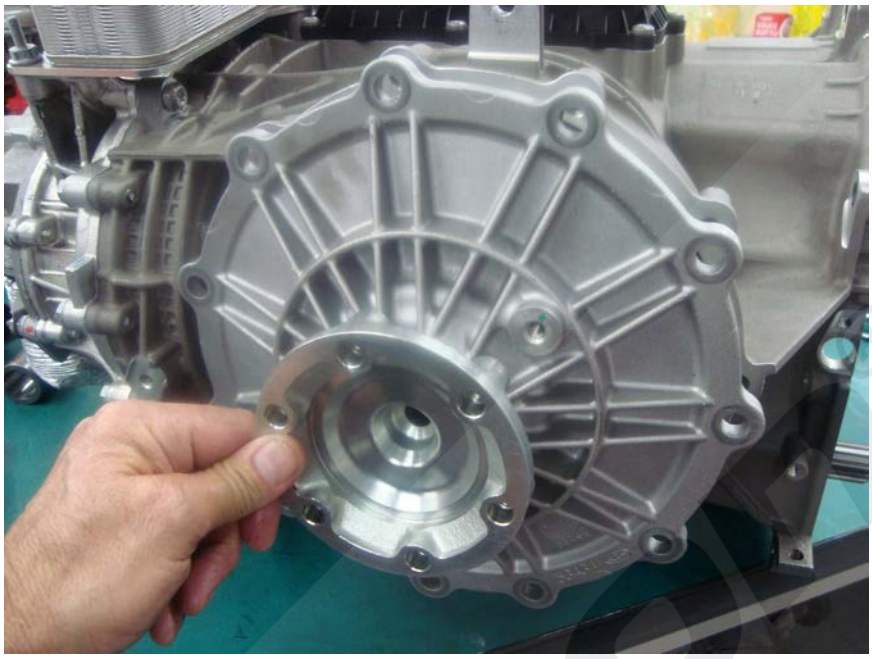
Stake the nut.

STEP 10

Fit the differential in the transmission housing. Make sure the diff doesn't fall out.

STEP 11

Fit the diff cover with half shaft on the transmission and bolt everything together. Torque to **40 Nm**.



STEP 12

Fit the Dodson long half shaft on the transmission, rotate if necessary to engage the splines and bolt the long half shaft housing to transmission. Torque to **40 Nm**.

NOTE:

DODSON HAS A BOLT KIT (**DMS-7199**) AVAILABLE FOR THE DL800 TRANSMISSION.

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