

# INSTALLATION - SERVICE INSTRUCTIONS

765 South Pierce Avenue Louisville, Colorado 80027

303-665-6901 800-525-1963 www.markwilliams.com



Bulletin #98 page 1 of 5

## HELLCAT DRIVESHAFT

APRIL 03.2017

### PARTS INCLUDED:

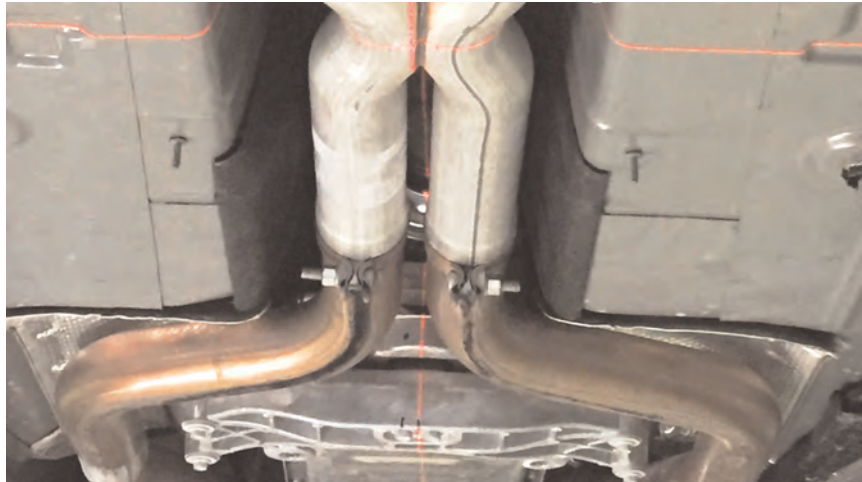
	DESCRIPTION	QUANTITY
MWS-600	Driveshaft Hellcat, 7075 60" Two Piece	1
MWS-630	Polyurethane Damper, Hellcat Driveshaft	4
MWS-670	Drive Stud for Differential and Transmission Companion Flanges	6
MWS-675	Mounting Washer for Hellcat Driveshaft	2
216.08.50.1.25	Bolt, Metric Socket Head M8-1.25 X 50mm	1
216.08.60.1.25	Bolt, Metric Socket Head M8-1.25 X 60mm	1
222.10.25.1.50	Bolt, Metric 12 Point M10-1.50 X 25mm	8

### PRIMARY APPLICATIONS:

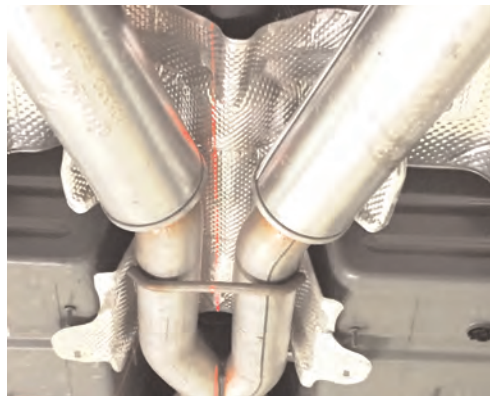
Hellcat with increased horsepower, using drag slicks and speeds in excess of 130 mph.

### INSTALLATION OVERVIEW:

- 1) Remove the exhaust system by first disconnecting the electronic baffles. Then unbolt the clamps underneath the transmission output flange, to disconnect the back exhaust from the front exhaust. Unbolt the rear exhaust hangers and pull the exhaust out. This may take some force to separate the back half from the front.



- 2) After the rear exhaust system has been removed unbolt and remove the heat shield.



- 3)** Now loosen the two bolts that hold the center carrier bearing to the vehicle using a 13mm socket. Leave one of the bolts engaged into the thread to support the driveshaft during steps 4 & 5.



- 4)** Next remove seven of the eight torx head bolts on the differential side CV flange using a T50 torx bit. Leave one of the bolts engaged into the thread to support the driveshaft during step 5.



- 5)** Now remove the six torx head bolts on the transmission side CV flange, using a T50 torx bit and separate the front of the driveshaft from the transmission.



- 6) Support the driveshaft so that it will not fall and remove the bolts that were left on the carrier and rear differential flanges to disconnect the driveshaft from the vehicle.
- 7) Install four drive studs (MWS-670) into the rear differential flange on the vehicle using a 7mm hex wrench and torque to 30-35 ft\*lbs. Use (Loctite red threadlocker 271). The studs must be clocked in the flange as shown in the picture below to ensure the correct alignment into the blind holes of the driveshaft u-joint flange. Note this photo only shows the stud clocking it does not show the studs installed into the rear differential flange.



- 8) Install two drive studs (MWS-670) into the transmission flange on the vehicle using a 7mm hex wrench and torque to 30-35 ft\*lbs. Use (Loctite red threadlocker 271). The studs must be clocked in the flange as shown in the picture below to ensure the correct alignment into the blind holes of the driveshaft u-joint flange. Note this photo only shows the stud clocking it does not show the studs installed into the transmission flange.



9) See Service Bulletin #101 for center carrier bearing installation.

**TORQUE SPECS:**

*MWS-670 (drives studs): 30-35 ft\*lbs*

*222.10.25.1.50 (12 point flange bolts): 30-35 ft\*lbs*

**MAINTENANCE REQUIREMENTS:**

*Periodic visual inspection of components to check for wear. Check the bearing seals on the carrier bearing to make sure they are still intact. Check the expansion boots by the differential and transmission flanges to make sure they are intact. Also check the 12 point bolts that connect the flanges to make sure they are still torqued to 30-35 ft\*lbs.*

