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### INSTALLATION INSTRUCTIONS

QA1 REV™ Series Carbon Fiber Driveshafts for '15-'18 Challenger Hellcat  
QA1 P/N JJ-23200, JJ-23202 (auto trans) & JJ-23201, JJ-23203 (manual trans)

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**WARNING:** Be sure to inspect all components regularly, especially following an accident. Do not use any components which may have been damaged.

**WARNING:** Composite driveshafts are fragile and if dropped or damaged will be considered scrap and should be replaced.

### TOOLS AND SUPPLIES REQUIRED

- Floor Jack
- Jack Stands
- Blue Loctite 242
- Torque Wrench (lb. ft.)
- Metric Wrench Set
- Ratchet & Metric Sockets
- T50 Torx Socket
- 8 mm & 10 mm Allen sockets

### Removal of Factory Driveshaft

1. Raise the vehicle and support with jack stands on a stable surface. See the vehicle owner's manual for jacking locations.
2. Disconnect and remove the exhaust system between the catalytic converters and mufflers. See Figure 1.
3. Make alignment marks at the 6 o'clock position on the factory driveshaft and the front and rear yokes. This will ensure the balance should the OE driveshaft ever be reinstalled in the car and provide a reference alignment when installing the new driveshaft.
4. Remove the six (6) bolts from the transmission output shaft.
5. Remove the eight (8) bolts from the pinion yoke.



6. Support the driveshaft and remove the two (2) hanger bearing bolts. **Caution: The OE driveshaft assembly is heavy and can cause injury if not properly supported during removal.**

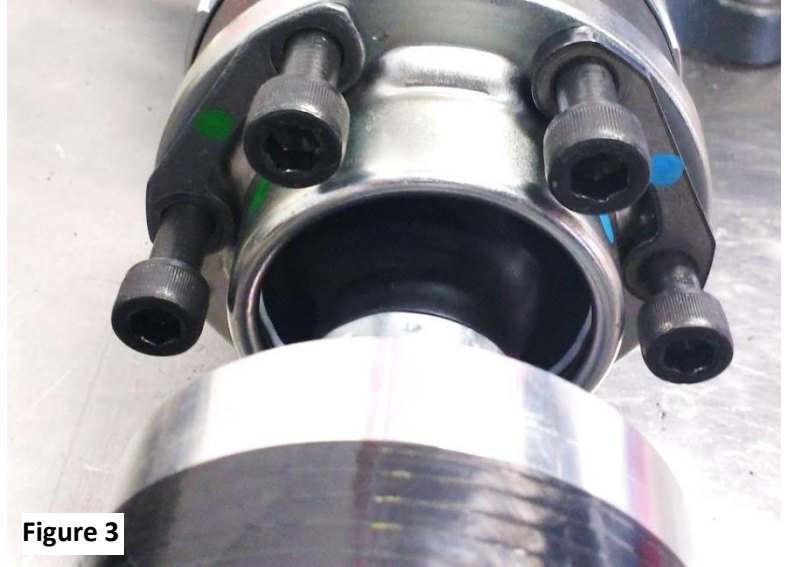
7. Remove the driveshaft from the vehicle.

### **Installation of QA1 Carbon Fiber Driveshaft**

**Note:** The CV joint and balance weights are color coded for driveshaft balance. The flange yoke and flange yoke adapter are also marked for alignment. The orientation of these components is critical for proper balance. See **Figure 2 & 3** below.

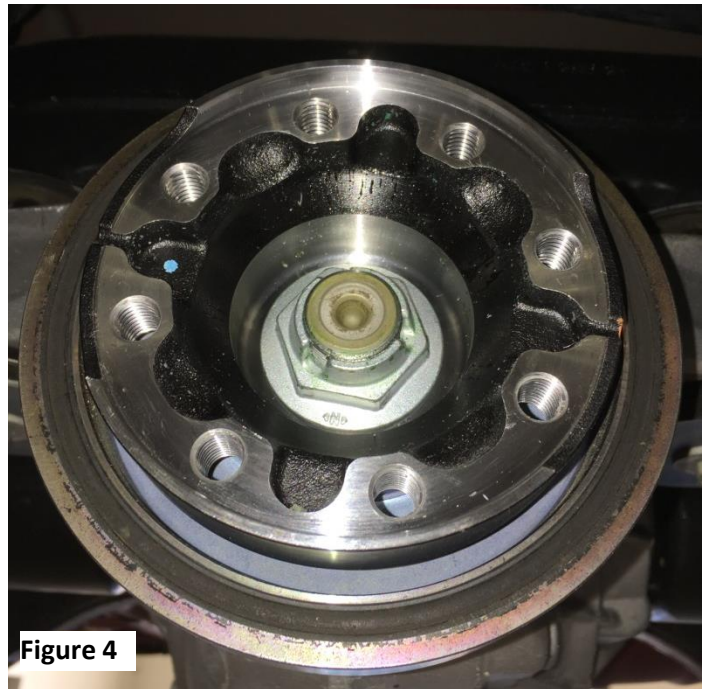


**Figure 2**



**Figure 3**

1. Thoroughly clean the mating surfaces on the pinion yoke and transmission output shaft of dirt, grease and corrosion. **Figure 4**
2. Remove the aluminum flange yoke adapter from the QA1 driveshaft and install it on the vehicle's pinion flange using thread locker and the eight (8) M10 x 35mm bolts supplied in the package. Ensure the adapter is fully seated in the pinion flange as the bolts are tightened. **Torque these bolts to 47 lb. ft.** Applying the parking brake will help prevent the pinion from rotating.
3. Apply thread locker to the remaining six (6) M10 x 80mm bolts and bolt the CV joint to the transmission yoke. **Torque the bolts to 47 lb. ft.**
4. Attach the front of the driveshaft to the transmission using thread locker and the four (4) M12 bolts supplied in the package. Ensure the driveshaft flange yoke is properly seated against the transmission output as the bolts are tightened. **Torque these bolts to 85 lb. ft.**



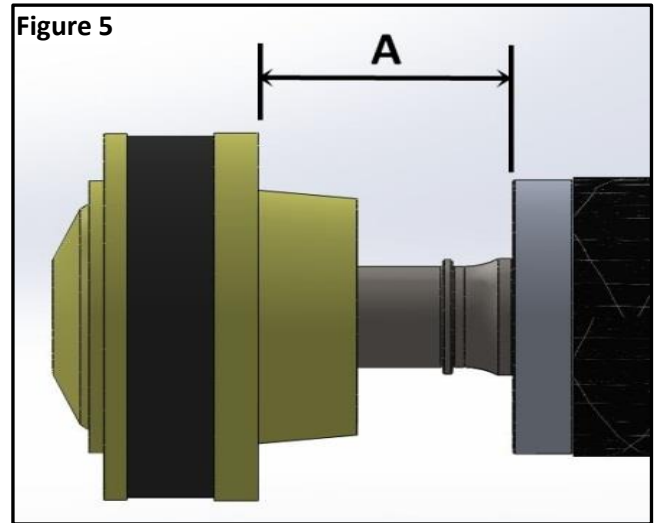
**Figure 4**

5. Check the distance from the tube end to the CV joint as shown in **Figure 5**. This should be measured at either side of the shaft rather than the bottom due to driveline angles affecting the measurement. Ensure the measurement is in the range of 2-9/16" to 2-7/8

6. Rotate the driveshaft and check for clearance around the driveshaft.
7. Reinstall the exhaust system and verify there is clearance between the driveshaft and exhaust.

### Washing Recommendations

It is recommended to wash the composite driveshaft with soap and water only. Avoid contact with chemicals.



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