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INSTALLATION INSTRUCTIONS

QA1 REV™ Series Carbon Fiber Driveshafts for '10-'18 Camaro SS
2010-2015 QA1 P/N JJ-22205 (auto trans) & JJ-22206 (manual trans)
2016-2018 QA1 P/N JJ-22207 (auto trans) & JJ-22208 (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
- Blue Loctite 242
- Metric Wrench Set
- E-18 Torx Socket
- Jack Stands
- Torque Wrench (lb. ft.)
- Ratchet & Metric Sockets
- 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 from catalytic converters back to the mufflers. See **Figure 1**. The passenger side O2 sensor will need to be disconnected for this process. Remove the NPP actuator connections (6th Gen only) in the middle and rear section of the exhaust by pulling the gray tab back from the connector, pushing down, and removing the connector.
3. Remove heat shield, front brace and hardware securing differential cooler lines. Do not remove center bearing hardware at this time.
4. 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.



5. Remove the three (3) bolts from the rubber coupler on the transmission yoke and three (3) bolts from rear differential rubber coupler.
6. Support the driveshaft and remove the two (2) hanger bearing bolts. Use the play in hanger bearing to slide the drive shaft from pilot on both ends. **Caution: The OE driveshaft assembly is heavy and can cause injury if not properly supported during removal.**

Installation of QA1 Carbon Fiber Driveshaft

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



Figure 2

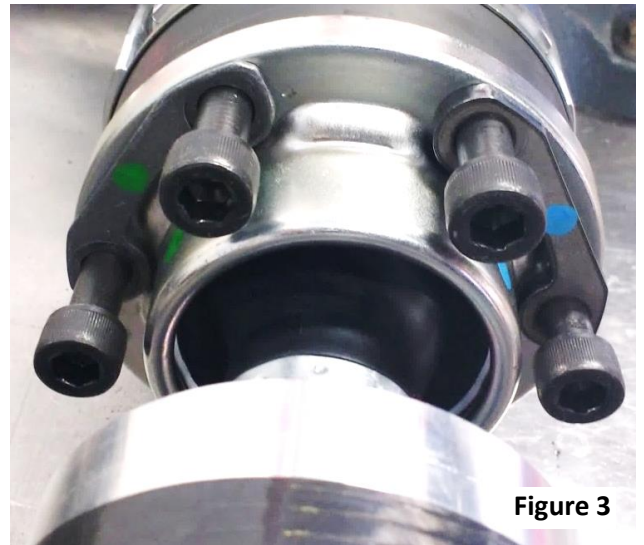


Figure 3

1. Thoroughly clean the mating surfaces on the pinion yoke and the transmission output shaft of dirt, grease and corrosion.
2. Remove the aluminum CV flange adapter from the QA1 driveshaft and install it to the transmission output flange using blue thread locker with supplied M12x1.75 60mm bolts in the package. Ensure the adapter is fully seated in the transmission output flange as the bolts are tightened. **Torque these bolts to 85-lb. ft.**
3. Apply blue thread locker to the remaining three (3) M12 x 40mm bolts with nuts (6th Gen) or 30mm bolts without nuts (5th Gen) and bolt the rear flange joint to the pinion yoke. Snug bolts for the moment ensuring the flange is fully seated into the pilot of the pinion flange.

4. Attach the front of the driveshaft to the transmission adapter flange using blue thread locker and the six (6) M10x 65mm bolts supplied in the package. Ensure all color coded parts match and that the CV is evenly seated to the flange adapter. **Torque these bolts to 47 lb.-ft.**

5. Return to the rear pinion flange and **Torque these bolts to 85 lb.-ft.** Applying the parking brake will help prevent the pinion from rotating. **See Figure 4**

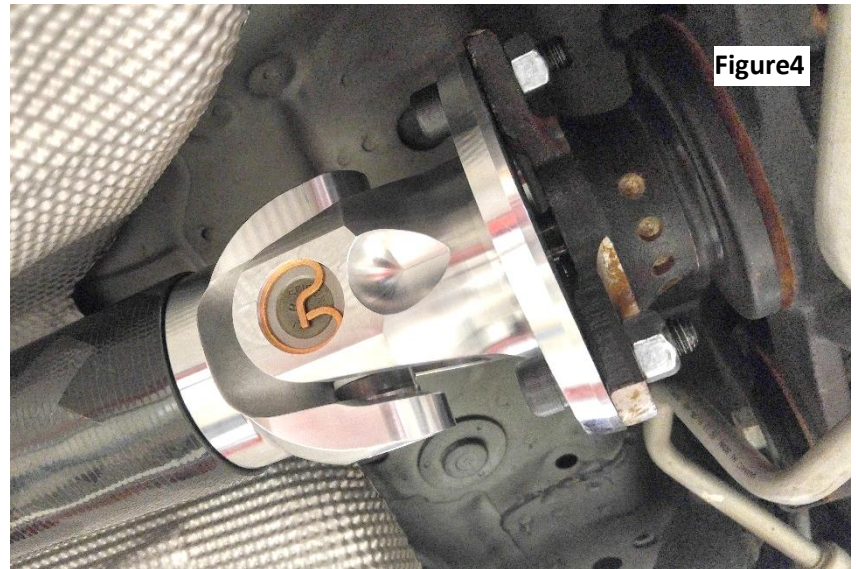


Figure4

6. Measure the distance from the front CV joint to the driveshaft (**See Figure 5**) and verify a distance of 2-9/16" to 2-7/8".

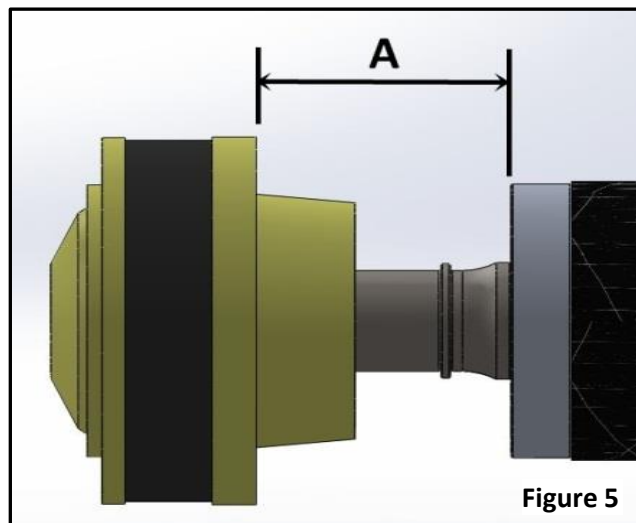


Figure 5

7. Before re-installing the heat shield, slightly reshape the rear edge downward to create more clearance for the drive shaft. See **Figure 6**

8. Release parking brake and put vehicle in neutral. Rotate the driveshaft and check for clearance around the driveshaft.

9. 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.



Figure 6

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