



Jeep Performance Parts

Ultimate Dana 44 AdvanTEK Front Axle

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Mopar JL Dana M44 Front Crate Axles

<u>Kit Component</u>	<u>Part Number</u>
Front Axle 4.56 Ratio	77072529
Front Axle 4.88 Ratio	77072528
Front Axle 5.13 Ratio	77072527
Front Axle 5.38 Ratio	77072530
<u>Optional Component</u>	<u>Part Number</u>
MOPAR Locker Wiring Harness	77072413
MOPAR Big Brake Kit (Front & Rear)	77072434

Installation notes

- Production knuckles, hubs and brakes will be reused.
- Production Rubicon drag link and tie rod must be used.
- Production or aftermarket steering stabilizer may be used.
- Suspension torques from service manual should be followed.
- Production driveshafts may be used.
- Ball joint torque procedure (OE aluminum knuckle):
 1. Torque lower ball joint to 20 Nm
 2. Torque upper ball joint to 70-80 Nm
 3. Torque lower ball joint to 40-50 Nm
- Ball joint torque procedure (Cast iron knuckle):
 1. Torque lower ball joint to 30 Nm
 2. Torque upper ball joint to 70-80 Nm
 3. Torque lower ball joint to 60-70 Nm
- Torque wheel hub assembly bolts to 90 – 100 Nm.
- Torque axle shaft nut to 122 - 149 Nm.
- Toe-in from service manual should be 1/8" followed.
- **NO FLUID IN DIFFERENTIAL!!!**
- Use full synthetic 75W140 or 75W85:
 - Approximately 1.08 qts (1.03L)
 - Initial Fill: Fill to bottom of upper fill hole
 - Service Fill: Fill to bottom of lower fill hole
- Up to 6 degrees of caster is recommended for optimal ride & handling quality.
- Ensure brake lines and ABS wires do not contact other components.
- *For Rubicon Models Only:* Unplug EDL connector from production axle – reinstall onto new JL UD44 AdvanTEK axle.
- Electric locker voltage/current required (10-16.8V, 3A max continuous)
- See service manual for general axle installation information.

Axle features

- "Bolt in" axles for the Jeep Wrangler JL
- 4.56, 4.88, 5.13 & 5.38 axle ratios
- 32 spline inner/outer axle shafts with 1410 U-joints
- Increased ground clearance over stock
- Newly designed high clearance carrier with rotated cover face
- Added carrier ribbing for increased strength
- Electric locking differential
- 2.75" tube diameter, 3/8" wall thickness
- Heavy duty forged axle yokes
- Heavy duty cast-iron differential cover
- Heavy duty 1/4" steel brackets
- Stock and raised height steering stabilizer mount locations
 - o Raised height location requires tie rod mount

*****NO FLUID IN DIFFERENTIAL*****

Operational Notes

- Any gear ratio and tire size changes require reprogramming at the dealership or using an aftermarket programmer.
- Front Axle Disconnect (FAD) warning light will also need to be programmed out at the dealership or using an aftermarket programmer.
- Rear axle gear ratio MUST match front axle gear ratio.

Service items

<u>Component</u>	<u>Part Number</u>
Axle shaft U-joints	Dana 10121761
Axle shaft outer front	Dana 10044478
Axle shaft LH inner front	Dana 10044464
Axle shaft RH inner front	Dana 10047463
Axle shaft seal (trunnion)	68398727AA
Ball joint kit	68388819AA
Pinion seal	68400358AA
Pinion outer bearing kit	68393985AA
Pinion inner bearing kit	68400362AA
Differential bearing kit	68401159AA

For all other service parts contact Mopar Direct
Connection Techline at 888-528-HEMI