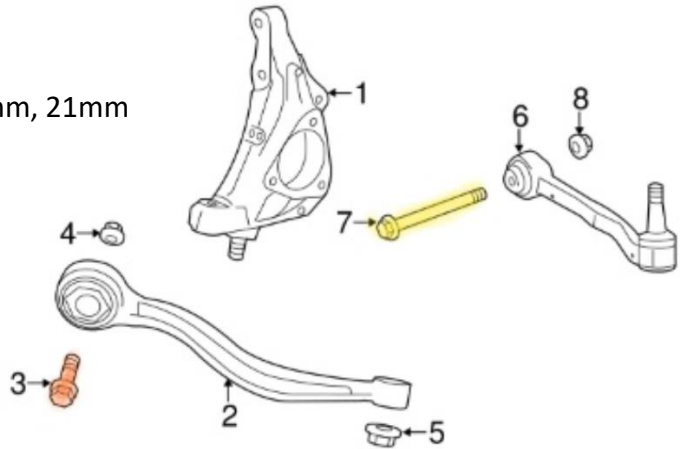




BK071 INSTALLATION INSTRUCTIONS – 6th Gen Spherical Control Arm Bearing

RECOMMENDED TOOLS:

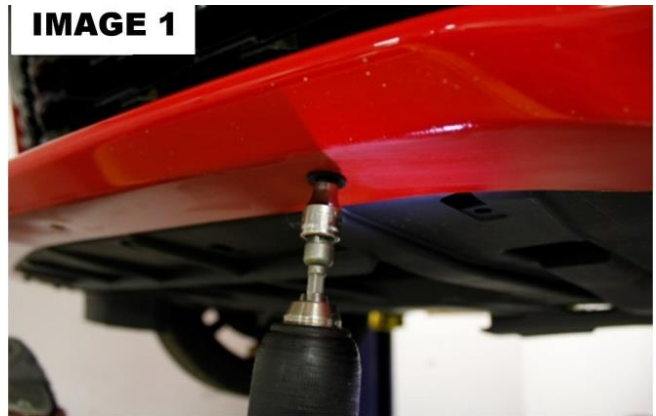
- Jack and jack stands
- Deep well sockets – 7mm, 10mm, 15mm, 18mm, 21mm
- T15 Torx socket
- Wrenches – 15mm, 18mm, 21mm
- Ratchet
- 6mm hex key
- Push-In clip remover
- Pry-bar
- Snap ring pliers



NOTE: General Motors requires that you replace the Front Lower Control Link Bolt (Control Arm) as they are Torque to Yield bolts also known as *T.A.Y.* fasteners (Torque Angle Yield) or single use fasteners. During development and testing we have not replaced any of these bolts, your mileage may vary.

- Front Lower Control Link Bolt (Control Arm):
Part # 11611268 (74ftlbs + 90-105 degrees)
Shown as #7

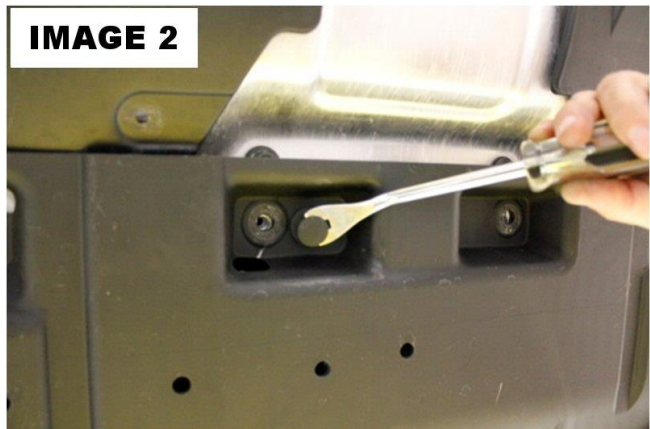
IMAGE 1



INSTALLATION:

1. Lift the front of the vehicle and support with jack stands under the frame rails. Ensure your jack and jack stand placement doesn't interfere with access to the inner control arm mounting point.
2. Remove both front wheels/tires.
3. Using a 7mm socket, remove all bolts holding front splash shield as seen in **IMAGE 1**.

IMAGE 2



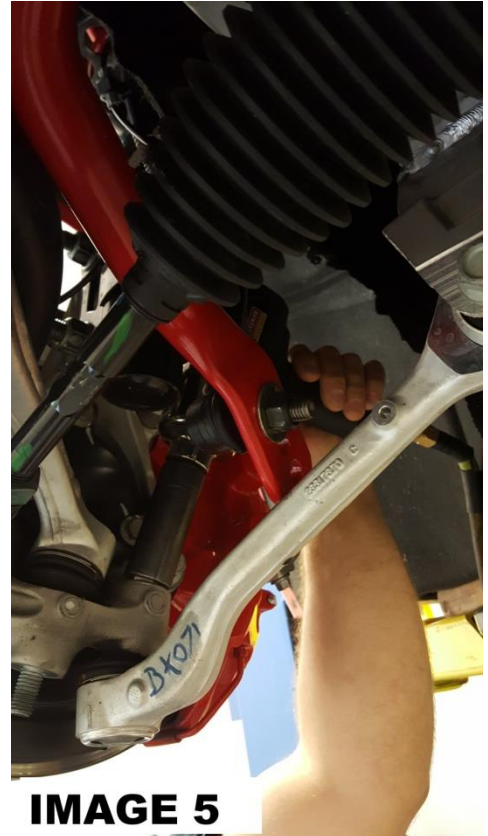
the

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4. Remove large push-in clips with remover as seen in **IMAGE 2**.
5. Using the 10mm socket, remove all bolts holding both lower splash shields then remove the remaining bolts using a T15 Torx socket. You will have multiple clips and variations of fasteners when done as shown in **IMAGE 3**.
6. Remove splash shields to gain access to the inner bolt on the radius arm.
7. Using an 18mm socket and wrench, loosen the inner bolt on the control arm. (**IMAGE 4**)
8. Now move out to the outer bolt on the spindle. Using a 21mm deep socket, remove the nut on the ball joint. (**IMAGE 5**)



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IMAGE 6



IMAGE 7



IMAGE 8

9. Use a brass hammer to knock the ball joint loose from the spindle as shown in **IMAGE 6**.
10. Once both bolts are out, remove the control arm.
11. Use a press to remove the factory bushing.
12. Press in the new BMR spherical bearing cup as shown in **IMAGE 7**.
13. Install the provided snap ring over the bearing cup as shown in **IMAGE 8**.
14. Insert the bearing spacers and re-install the radius arm.
15. Tighten inner and outer bolts, duplicate for the other side, then re-assemble in the reverse order.
16. Torque to specified amount using the table on the last page.
17. Re-install wheels/tires and lower vehicle.

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BK071 INSTALLATION INSTRUCTIONS – 6th Gen Spherical Control Arm Bearing

Front Suspension

Specifications

Fastener Specifications

Application	Specification	
	Metric	English
Front Lower Control Front Link Bolt (Requires a NEW bolt.) Radius Rod		
First Pass:	100 N•m	74 lb ft
Final Pass:	90–105 degrees	
Front Lower Control Rear Link Bolt (Requires a NEW bolt.) Lower Control Arm		
First Pass:	100 N•m	74 lb ft
Final Pass:	90–105 degrees	
Front Stabilizer Shaft Insulator Clamp Nut	22 N•m	16 lb ft
Front Stabilizer Shaft Link Nut	100 N•m	74 lb ft
Front Suspension Strut Mount Nut (With F55 at Top of Front Suspension Strut Mount)	50 N•m	37 lb ft
Front Suspension Strut Mount Nut (Without F55 at Top of Front Suspension Strut Mount)	65 N•m	48 lb ft
Front Suspension Strut Nut (at Steering Knuckle)		
First Pass:	150 N•m	111 lb ft
Final Pass:	80–95 degrees	
Front Suspension Strut Upper Mounting Bolt	22 N•m	16 lb ft
Front Wheel Bearing and Hub Assembly Bolt		
First Pass:	100 N•m	74 lb ft
Final Pass:	15–30 degrees	
Steering Knuckle Nut		
First Pass:	40 N•m	30 lb ft
Final Pass:	120–135 degrees	

Adhesives, Fluids, Lubricants, and Sealers

Application	Type of Material	GM Part Number	
		United States	Canada
Front Wheel Bearing and Hub Assembly Bolt	Thread Locking Adhesive	89021297	10953488
Steering Knuckle Bearing Pilot Bore	Grease	12345996	10953501

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