

# sector 111

MONOballs

Rev. A

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## READ FITTING INSTRUCTIONS IN FULL BEFORE INSTALLATION - Professional Installation Recommended

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1. Confirm the following items are in your kit
  - o 14 short bearing assemblies
  - o 2 longer bearing assemblies

*NOTE:* The 2 longer MONOballs are for the rear lower a-arm in the forward position

- Tools needed for install:
- o 2 small flat head screw drivers
  - o Freezer
  - o Blow torch or heat gun
  - o 6" Vice or Hydraulic Shop Press
  - o 1.25" Socket
  - o 10mm x 40mm Bolt
  - o 15 - 10mm Washers



<b>Instructions</b>	<b>Tools/ Parts</b>	<b>Picture/ Illustration</b>
<p>2. Remove Top hats &amp; O-rings from all the MONOballs</p> <ul style="list-style-type: none"><li>• be careful not to distort/damage the hats, sleeves or o-rings</li></ul> <p>3. Place all the MONOballs in the freezer overnight to aid installation.</p> <p>4. Remove upper and lower a-arms from the chassis.</p> <ul style="list-style-type: none"><li>• make note of caster spacer locations for reinstallation</li></ul>	<ul style="list-style-type: none"><li>○ 2 small flat head screw drivers</li><li>○ freezer</li></ul>	
<p>5. Remove stock inner a-arm bushings</p> <ul style="list-style-type: none"><li>○ Use a bolt, washers, socket &amp; either a table vice or press.</li></ul> <p>6. Insert bolt and washers into stock bushings to aid removal</p> <p>7. Place the a-arm housing + bolt/washer assembly + socket into the vice or press.</p> <ul style="list-style-type: none"><li>• Closed end of socket should face the jaws of vice so that open end can receive the stock bushing</li></ul>	<ul style="list-style-type: none"><li>○ 10mm Bolt &amp; washers</li><li>○ 1.25" socket</li><li>○ 6" Table Top Vice or Hydraulic Shop Press</li></ul>	

**Instructions****Tools/ Parts****Picture/ Illustration**

8. Tighten the vice to push out the stock bushing with the bolt and washers.
- Add additional washers to completely remove the stock bushing
  - Stock bushing will be pushed into socket



9. Gently heat inner a-arm housing with a blow torch or heat gun
- Heat only one housing at a time.

- blow torch or heat gun



Instructions	Tools/ Parts	Picture/ Illustration
<p>10. Remove one MONOball from the freezer and place in heated a-arm housing.</p> <ul style="list-style-type: none"> <li>• Bearing assembly may drop right in.                             <ul style="list-style-type: none"> <li>○ Otherwise, put MONOball + a-arm + socket in the vice or press. Tighten until MONOball is completely inserted in the a-arm housing. Both sides of the MONOball sleeve should be flush with control arm housing.</li> </ul> </li> <li>• <i>NOTE:</i> The MONOball's aluminum sleeve has one end that is slightly relieved to aid install</li> </ul> <p>11. Repeat this process for each bearing assembly and a-arm housing.</p> <ul style="list-style-type: none"> <li>• <i>NOTE:</i> The 2 larger MONOballs are inserted in the rear lower a-arm in the forward position</li> </ul>	<ul style="list-style-type: none"> <li>○ 1.25" socket</li> <li>○ 6" Table Top Vice or Hydraulic Shop Press</li> </ul>	
<p>12. Reinstall O-rings and top hats into MONOballs</p> <ul style="list-style-type: none"> <li>• Do not use grease on O-rings</li> </ul> <p>13. Reinstall a-arms onto chassis</p>		