



**WHEEL SYSTEMS**  
Service Manual

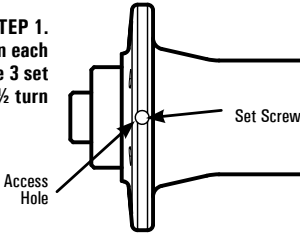
Bearing  
Adjustment



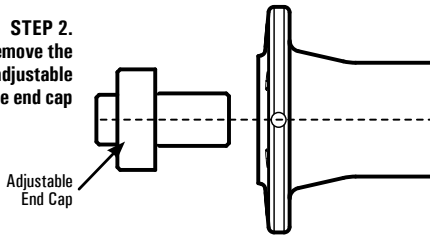


**FRONT HUB : 2004 – 2010 VIGOR, ÉLAN, DAUPHINÉ, CROSS, TANDEM & CARBON;  
2004 -2007 ASPIN & ECHELON** *[refer to exploded assembly view below ]*

**STEP 1.**  
Loosen each  
of the 3 set  
screws ½ turn



**STEP 2.**  
Remove the  
adjustable  
side end cap



1. Loosen the three (3) set screws by inserting a 2mm Hex wrench in the access hole in the hub shell. For 2007 and earlier models, the hub will have one (1) set screw and the access hole may be on the hub shell outboard of the flange (not shown). For 2007 and later models, the access hole will be through the outer diameter of the flange (shown).
2. Remove the adjustable side end cap from the hub. If needed, thread a M6 bolt into the adjustable side end cap and pull on the bolt for a better grip, or drive the end cap out with a drift. Once the adjustable side end cap is removed, the adjustment collar will be visible.

**STEP 3.**  
Push on Adjustable Collar  
and Non-Adjustable  
Side End Cap to Remove  
Bearing End Play

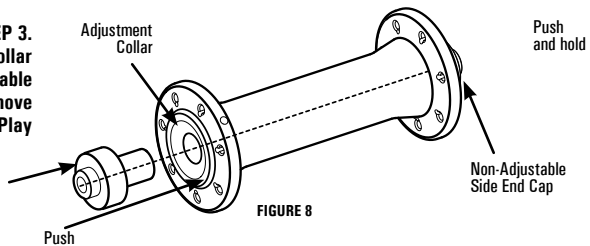
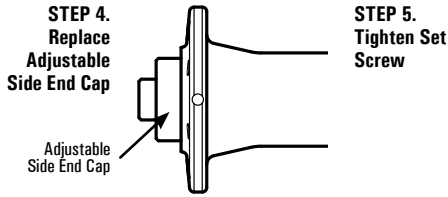


FIGURE 8

3. Place the wheel on a work surface with the non-adjustable side end cap facing downward. Push downward on the hub to ensure that the non-adjustable end cap is fully seated against the hub bearing. Push the adjustment collar inward, ensuring it is fully seated against its hub bearing.



4. Replace the adjustable-side end cap carefully, so as not to move the axle or adjustment collar. Hold the non-adjustable-side end cap to prevent movement.
5. Tighten the set screws. Check adjustment. If bearing play remains, repeat the above steps. This can also be performed without removing the adjustable side end cap if you are careful to push on the adjustment collar and not the adjustable side endcap.

**REAR HUB 2004 – 2010 VIGOR, ÉLAN, DAUPHINE, CROSS, TANDEM & CARBON;  
2004-2007 ASPIN & ECHELON** *[refer to exploded assembly view below]*

**STEP 1.**  
Loosen 3 set screws  
½ turn

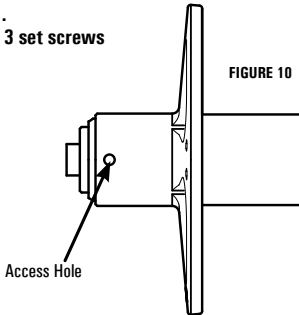
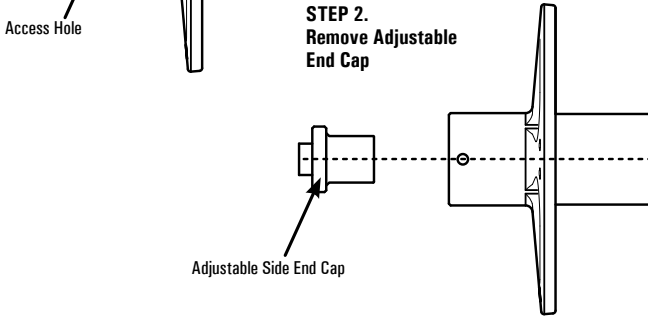


FIGURE 10

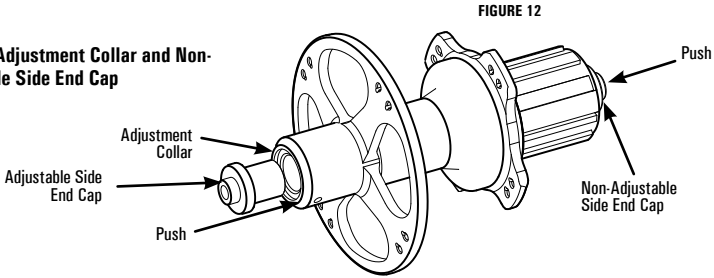
**STEP 2.**  
Remove Adjustable  
End Cap



1. Loosen each of the three set screws ½ turn by inserting a 2mm hex wrench in the access hole in the hub shell.
2. Remove the adjustable side end cap from the hub. If needed, thread a MG bolt into the adjustable side end cap and pull on the bolt for a better grip, or drive the end cap out with a drift. With the adjustable side end cap removed, the adjustment collar is visible.

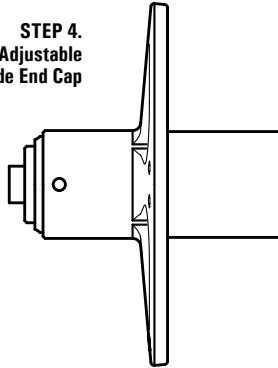


**STEP 3.**  
**Push on Adjustment Collar and Non-Adjustable Side End Cap**



3. Apply inward pressure on the non-adjustable side end cap and the adjustment collar simultaneously; making certain both parts are contacting the hub bearings. It is not necessary to maintain pressure.

**STEP 4.**  
**Replace Adjustable Side End Cap**



4. Replace the adjustable-side end cap carefully, so as not to move the axle or adjustment collar. Hold the non-adjustable-side end cap to prevent movement.
5. Tighten the three set screws. If bearing play remains, repeat the above steps.

**FRONT AND REAR HUBS: 2008 -2010 ASPIN AND ECHELON (INCLUDING SL MODELS), 2006 – 2007 APEX & TEMPO**

These hubs have no bearing adjustment. Axle end play typically indicates worn bearings or axle. Inspect these parts and replace as needed. See the bearing replacement instructions in this manual.