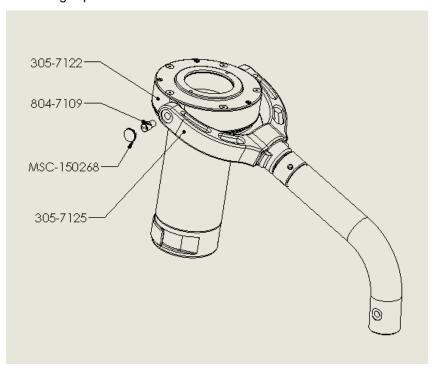


Gimbal Balancing Procedures for: Archer 2 Series 305-7120-XX

- 1. Place unit on proper docking bracket
- 2. Swing unit to horizontal position and establish gimbal drop-time by sliding the gimbal up and down the post until the unit swings from horizontal to vertical in approximately three seconds.
- 3. Fine tune vertical position by adjusting fore/aft and side/side shafts on stage.
- 4. Swing unit again to horizontal position and release until it swings back to vertical position.
- 5. Unit should always return to the established vertical position, if it does not, fine-tune the adjustment pin screws (part# 804-7109) and repeat the previous step.
- 6. To adjust pin screws remove plastic bearing caps (MSC-150268) to access pin screws
- 7. Gimbal ring (305-7122) to yoke (305-7125) clearance should have zero endplay but swing free, this is adjusted by turning pin screws.
- 8. The adjustment pin screws should have some resistance when turning.
- 9. If the unit is leaning to the left of vertical, turn the right adjustment screw counter-clockwise and the left adjustment screw clockwise in equal increments. If leaning right of vertical, reverse this procedure. Warning: turn these screws in small increments (1/16 of turn) as it will have a magnified affect when drop time is set at 3 seconds or more.
- 10. Repeat drop test again if unit does not repeat check to make sure all clamps, plates, camera and whatever else might shift or become loose is stable and not shifting the balance point.
- 11. Re-install plastic bearing cap covers.



305-7120-40 11-27-13