

Effective Date: 8/9/2010	 Service Bulletin	Revision 001
Warranty: Depends on Install Date	Resetting the Elevation Motor on the Vision S7100 Suspension Elliptical Trainer	Revised Date:
Time Required: 1 Hour	Serial Numbers Affected: All	Prepared by: Kevin Oeltjenbruns

DESCRIPTION

Some Vision S7100 Suspension Elliptical Trainers have had the elevation motor set in an incorrect position during assembly causing elevation problems and Incline Homing Errors.

SOLUTION

Reset the elevation motor starting position using the procedure outlined in this instruction.

PARTS REQUIRED

No additional parts are required.

TOOLS REQUIRED

Phillips Screwdriver

Flat Screwdriver

14mm Socket with Ratchet

6mm Allen Wrench

22mm Crank Removal Tool – Vision Fitness part # ZMS2000030

PROCEDURE

1. Unplug the power cord from the wall outlet.
2. Lift up the console mast boot to determine if the elevation motor is in the service position – if the screw / nut holding the elevation motor bracket to the elevation motor tube is visible, the unit is in the service position (Figure A). If the elevation motor is not in the service position, go to Step 3. If the elevation motor is in the service position, skip to Step 9.
3. Remove the 4 screws holding the console to the console mast (Figure B).



Figure A



Figure B

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4. Disconnect the 4 wire connections to the console and remove it from the unit (Figures C & D).



Figure C



Figure D

5. Remove the 5 screws holding the cup holder assembly to the console mast (Figures E & F). Once these screws are removed, the cup holder assembly can be removed. **NOTE:** When removing the cup holder assembly, be careful not to damage the console cable and heart rate wiring (Figures G & H).



Figure E



Figure F



Figure G



Figure H

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6. Lift up the console mast boot and remove the 2 screws holding the front console mast cover to the console mast (Figure I).
7. Remove the 10 screws holding the rear console mast cover to the console mast (Figures J & K).
8. Remove the 2 screws holding the plastic cover over the arm juncture and remove the cover (Figure L).



Figure I



Figure J



Figure K



Figure L

9. Remove the screw / nut holding the elevation motor bracket to the elevation motor tube (Figure N). Have someone hold or block the elevation motor bracket and the arms out of the way so that they do not interfere with the movement of the elevation motor (Figure O).



Figure N



Figure O

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10. Use a flat screwdriver to remove the left side crank cover (Figure P).

11. Use a 14mm socket / wrench to remove the left side crank nut (Figure Q).



Figure P



Figure Q

12. Use a 22mm Crank Removal Tool to disconnect the left crank from the drive axle (Figures R & S).



Figure R



Figure S

13. Remove the 8 screws holding the left side cover to the frame (Figure T). Remove the side cover (Figure U).



Figure T



Figure U

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14. Manually rotate the incline motor nut until it has freedom to move in either direction (Figure V).



Figure V

15. Re-attach the 4 wire connections to the console disconnected in Step 4.

16. Plug the power cord back into the wall outlet.

17. Incline Homing should not be able to complete its cycle and the unit should go to the normal startup screen. If the unit will not power up or if Incline Homing does not clear, contact Vision Customer Technical Support at 800-335-4348.

18. If the console is now at the normal start up screen, press and hold both RESISTANCE keys simultaneously for 3-5 seconds until the screen reads P1 Set Max Time (enters Engineering Mode).

a. Use any arrow key to scroll to P13 (Incline Calibration).

b. Press ENTER twice.

c. The unit should now elevate to the maximum elevation position and then lower back down to the minimum elevation position.

d. Press and Hold START to exit Engineering Mode and go back to normal operation.

19. Once the Incline Calibration is complete, the nut on the elevation motor should have about 1 1/8" (about 7 threads showing) between the elevation motor frame and the bottom of the nut (Figure W).



Figure W

20. Unplug the power cord from the wall outlet and disconnect the wiring to the console. Remove the console.

21. Reverse Steps 1-13 to re-assemble the suspension elliptical trainer.