

J&J Service Instructions

January 5, 2004

Flex Wire Conversion Update



Begin by removing the SB-50 connector and cable assembly.(fig.1)
Next remove the four nuts and the 6 allen cap headed screws that hold the pivot shield on . (fig. 2)



With all hardware loose remove the pivot assembly. (fig. 3) Lift the mount plate so that you can access the slip rings. (fig. 4)



In order to remove the slip rings you must first remove all the brass nuts on the back side. (fig. 5) Now remove all the bolts and slip rings. These items are no longer used in the update. (fig. 6)



Be sure to replace the four 3/8 hex headed bolts with the supplied allen cap headed bolts. (fig. 7) It is crucial that you make sure that the nylon sleeve is still located in mount. Next mount the flex wire to the mount plate. It is important to install the lead in this order: 1.plastic shoulder washer (shoulder facing down) 2.terminal 3. supplied brass phillips screw (fig. 8)



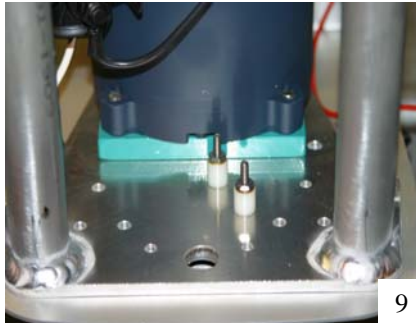
Web Site: <http://www.jjamusements.com>

If you have any questions please give us a call at (800) 854-3140 or (503) 304-8899.

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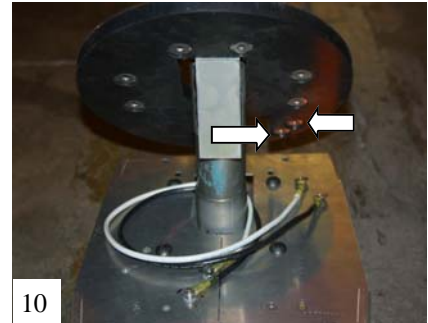
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On the motor side make sure to install spacer, washer, then nut. (fig. 9) It is very important that you route the flex with enough play to allow full range of steering motion. The arrows indicate where to connect the flex wire to UHMW disk. Now carefully remove the two threaded inserts (fig. 10)



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Drill out the two holes of with a letter U size (.368) drill bit. (do not substitute with any other size) It is very important that the bushings are a pressed fit. Make sure to have the drill bit perpendicular to the UHMW plate. (fig. 11) Lightly tap in the supplied copper bushings. (fig. 12)



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Connect flex wire to the UHMW disk in the order of : 1.brass washer 2.terminal 3.star washer 4.bolt. (fig. 13) Take note on the routed direction of the negative and positive leads. (fig. 14)



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Now connect SB-50 cable assembly making sure that you have the positive and the negative leads connected to the corresponding flex wire leads. Install in order terminal, star washer, brass nut (fig. 15) Reassemble pivot assembly (fig. 16) (**Note**) It is recommended that copper anti seize is used on the 1/2 inch pivot cover bracket nuts to reduce galling.



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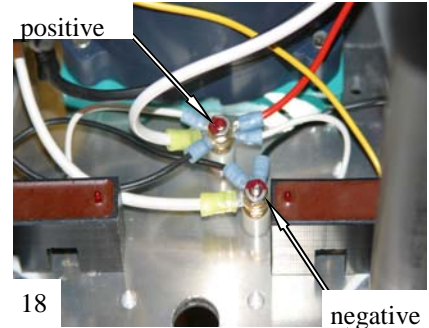
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Finish by installing the nylon acorn nuts. Apply plastic dip to the terminal in an effort to help stop corrosion. (fig. 17) Connect all leads to corresponding post taking not on which is positive and negative. Visually inspect the flex wire as you rotate unit from side to side to insure that no binding occurs. (fig. 18)



Install the rubber strip around the UHMW plate. Tighten the hose clamp around the rubber strip. The two zip ties are provided to keep the excess clamp tucked in neatly. (fig. 19)

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