

Series 3 Technician's Installation and Service Training Manual

ZAP Motor Assembly Service (Belt and Bearing Replacement)

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Belts and bearings are designed for replacement every 20-30k cycles.

After removing the operator from the torsion shaft locate the three nuts on the back plate of the operator. (Figure A) Use a 10mm socket wrench and a 10mm open wrench to loosen the nuts and set aside where they will not be lost.

Remove the back plate. (Figure B)

Grasping the pulley, lift the pulley, bearings and belt from the motor frame. (Figure C)

Remove the belt from the pulley.

Remove the rear bearing, this is the bearing facing you as you removed the pulley from the operator. (Figure D)

Turn the pulley over and remove the set screws from the pulley boss and set aside where they will not be lost. (Figure E)

Remove the front bearing. (Figure F)

Place the new bearing on the front side of the pulley (Figure G)

Re-install the set screws. (Figure H)

Now replace the back bearing. (Figure I)

Ensuring you have the proper belt, place the belt on the large pulley with the bearings.

Slip the belt onto the lower (smaller) pulley ensuring you feed the belt to the interior side of the tensioning pulley and the bolt to the just offset from the drive pulley. (Figure J)

Now slip the bearing into the circular hole of the motor frame. (Figure J)

Ensure all three spacers bushings are in place and replace the back plate. (Figure K)

Secure in place with the three nuts. (Figure L)

Re install the motor head on the torsion shaft.



Figure A



Figure B



Figure C



Figure D



Figure E



Figure F



Figure G



Figure H



Figure I



Figure J



Figure K



Figure L

ZAP Series 3 Simply Logical

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