



ZEE Systems, Inc.
SERVICE LETTER 99-800-3

1.0 EFFECTIVITY: All Z99-800-(ALL DASH NOS.) Motors.

2.0 PURPOSE: To provide instructions to check the Z99-845-1 Brush Spring tension and adjust as necessary after installation on the brush holder. Provide a new spring tolerance of 32-52 ounces at ¼ inch pull.

3.0 COMPLIANCE: Required when replacing the spring. If any spring is in a condition to be replaced other conditions may exist that may have damaged the motor. The motor should undergo a complete zero-time overhaul. This operation should be accomplished by a qualified repair facility.

4.0 APPROVALS: No additional approvals required.

5.0 WEIGHT AND BALANCE: No effect.

6.0 ELECTRICAL LOAD OR PERFORMANCE DATA: No effect

7.0 SPECIAL TOOLS: Spring scale capable of measuring 0 – 100 ounces.

8.0 MAN POWER REQUIREMENTS: Time to remove motor for the aircraft is not included in this estimate. Time estimated is in addition to normal overhaul time. Time to remove holder from the end bell assembly. Time to remove defective spring and install new spring. Time to check tension of new spring and adjust as required. Experienced technician approximately 1.5 hours above normal overhaul time.

9.0 INSTRUCTIONS: Refer to CMM Z99-800 for instructions on the disassembly of the motor to get to the brush holder. The CMM also gives instructions to test the spring. This Service Letter gives instruction to adjust the spring tension to fall into tolerance.

NOTE: The spring tension listed in this Service Letter is different than as listed in the CMM. 32-52 ounces is the new tolerance.

Install the spring on the holder as shown in Fig.1 below. Wind the spring as shown until the tang fits into the holder, FIG. 3. Then check the spring tension. Attach a scale as shown in FIG. 4. Lift the spring from its resting position to ¼ inch off the holder. The spring tension at ¼ inch should be 32-52 ounces.

If the spring tension is too low remove the spring and position 180 degrees clockwise as shown in FIG. 2. Wind the spring as shown until the tang fits into the holder, FIG. 3. Attach a scale as shown in FIG. 4. Then check the spring tension. Lift the spring from its resting position to ¼ inch off the holder. The spring tension at ¼ inch should be 32-52 ounces.



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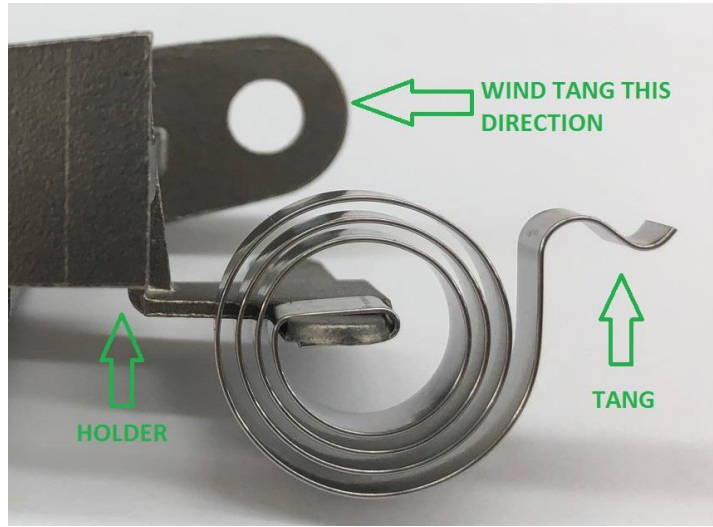


FIG. 1



FIG. 2



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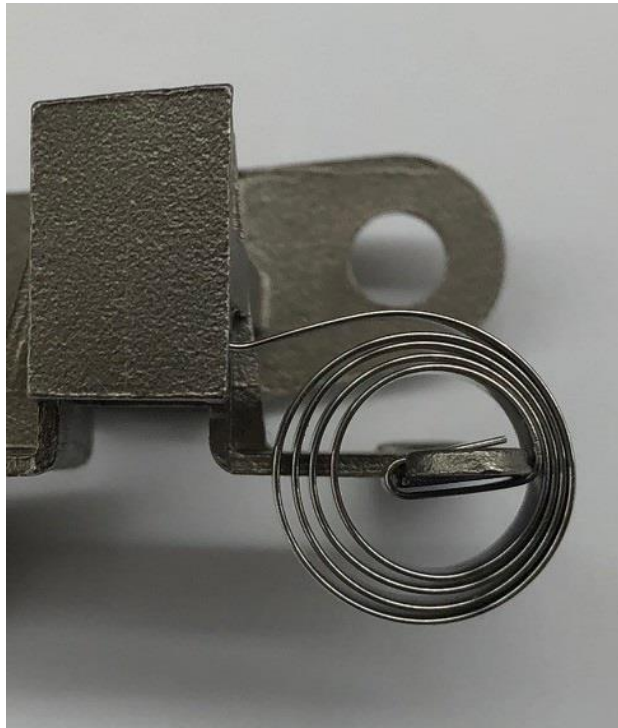


FIG. 3

ATTACH SCALE AT •
PULL \triangle 1/4 INCH

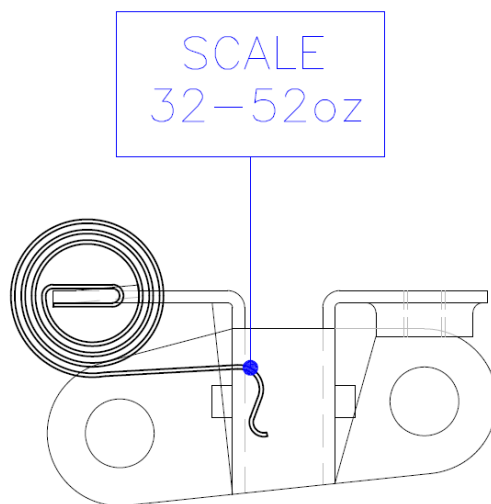


FIG. 4



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10.0 REFERENCE MATERIAL: CMM Z99-800.

11.0 TESTING: As described in 9.0 and FIG. 4 above.

12.0 IDENTIFICATION: No re-identification or markings are required.

13.0 RECORDS: Make required logbook maintenance entries.

14.0 MATERIAL COST and AVAILABILITY: Contact:

ZEE Systems, Inc. OR Any ZEE Systems, Inc. Distributor.
406 W. Rhapsody Dr.
San Antonio, TX 78216

800-988-2665 x205 Parts 210-342-9761 x205 Parts

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