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**MAINTENANCE INSTRUCTIONS
 SYMAT 50 OFFSET PIVOT GUIDE
 MECHANICAL TROUBLESHOOTING GUIDE**

**SYMAT 50 OFFSET PIVOT GUIDE
 MECHANICAL TROUBLE SHOOTING GUIDE**

Table 1.
SYMAT 50 OPG MECHANICAL TROUBLESHOOTING GUIDE

Use the following information in Table 1 to pinpoint malfunctions in the system.

SYMPTOM	PROBABLE CAUSE	SOLUTION
<p>1. Motor shaft turns, but guide does not move <i>(see Figure Sheet 3-394 for reference).</i></p>	<p>A. Bearings on actuator bracket assembly and/or motor shaft are worn making bearings slip on shaft.</p> <p>B. Set screw (in spherical bearing) is loose causing racerod to slip in spherical bearing.</p> <p>C. Pivot carrier binding.</p>	<p>Readjust the actuator bracket per Figure Sheet 3-396.</p> <p>Realign carrier block per Figure Sheet 3-396 and retighten set screw.</p> <p>Refer to SYMPTOM 2.</p>
<p>2. Pivot carrier does not move freely or binds <i>(see Figure Sheet 3-394 for reference).</i></p>	<p>A. Exiting side carrier block binding on spherical bearing.</p> <p>B. Ball bushings worn out.</p> <p>C. Entering side spherical bearings tight on racerods or tight in carrier blocks.</p>	<p>Disconnect carrier block from pivot carrier crossmember and rotate it back and forth on spherical bearing. If it does not turn freely, replace carrier block and spherical bearing.</p> <p>Replace ball bushings and racerods.</p> <p>Disconnect carrier blocks from pivot carrier crossmember and rotate them back and forth on spherical bearing. If it does not turn or slide on the shaft freely, replace carrier blocks and spherical bearings.</p> <p>NOTE: <i>Spherical bearings are teflon impregnated and require no lubrication.</i></p>



Table 1 (continued).
SYMAT 50 OPG MECHANICAL TROUBLESHOOTING GUIDE

SYMPTOM	PROBABLE CAUSE	SOLUTION
<p>3. Motor does not stop turning when guide reaches the end of its stroke (see <i>Figure Sheet 3-394</i> for reference).</p> <p>NOTE: <i>Although this condition does not affect the ability of the system to guide the web, it is important that the motor stalls when the guide reaches the end of its stroke. If the motor continues to rotate, the bearings will slip on the shaft, resulting in rapid bearing and shaft wear.</i></p>	<p>A. Actuator stop washers worn and/or actuator stop brakes worn or broken.</p> <p>B. Set screws in actuator stops loose.</p> <p>C. Bearings on the actuator bracket assembly and/or motor shaft are worn.</p> <p>D. Pivot carrier is binding.</p> <p>E. Too much motor current.</p>	<p>Remove the actuator cover and inspect the actuator stop washers and actuator stop brakes. If any of these parts are rough, worn excessively, or broken, replace both actuator stop washers and both actuator stop brakes.</p> <p>Align actuator stops and retighten set screws (see <i>Figure Sheet 3-396</i> for alignment procedure).</p> <p>See Figure Sheet 3-396 for actuator bracket test procedure. If failure is observed with the bracket test, replace actuator bracket assembly and/or actuator motor.</p> <p>Refer to Symptom 2.</p> <p>Disconnect carrier block from pivot carrier crossmember and rotate it back and forth on spherical bearing. If it does not turn freely, replace the carrier block and spherical bearing.</p>
<p>4. Guide sticks at the end of its stroke (see <i>Figure Sheet 3-394</i> for reference).</p>	<p>A. Actuator stop washers are worn and/or actuator stop brakes are worn or broken.</p>	<p>Refer to SYMPTOM 3, Probable Cause A.</p>