

# TB0239 Fault Finding G Axis Stalling

Faults on the G axis on a Flowline / ZX / Microline have proved to be a little difficult to trace. It is easy to follow a red herring and change the wrong component.

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## Technical Bulletin

<b>TB Number:</b>	238
<b>Originator:</b>	Gareth Green
<b>Machine:</b>	Flowline, Microline, ZX
<b>Date:</b>	27/11/13
<b>Circulate to:</b>	Service
<b>Title:</b>	Fault Finding G Axis Stalling

## Detail

Faults on the G axis on a Flowline / ZX / Microline have proved to be a little difficult to trace. It is easy to follow a red herring and change the wrong component.

## Symptoms

Code	Description
AX001	Not Datuming: G Axis
AX002	Not Datuming: X Axis
AX016	Error Message: Wait 20 Seconds
AX017	Gripping position on profile inconsistent
AX018	Noise / Vibration from Gripper Stepper Motor

## Actions / Checks

Code	Description	Tick
DOCKOFFSET	Check Dockoffset Parameter Correct	
CHK_AX001	Check G Axis Leadscrew Bearings and nut tension	
CHK_AX002	Check G Axis Beam is Parallel	
CHK_AX003	Check G Axis End Stops exist for both forward and reverse travel and are set correctly. What happens if G axis overruns? Any Blockages?	
CHK_AX004	Check G Axis Belt Tension and position of joiner block in relation to end of travel	

CHK_AX005	Check function of G axis Stepper Motor (Assuming mechanics are all ok)	
CHK_AX006	Check SA14 G Axis Stepper drive unit - Blackened connectors / internal D110 Stepper Card / Internal Power Supply / External Fuse	
CHK_AX007	Check G Axis Power Cables for continuity on all 4 or s/c to earth	
CHK_AX008	Check lubrication of G axis, should move comfortably by hand via toothed belt when motor de-energised	
CHK_AX009	Check Function of datum switch and mechanical setting. Is it sticky? Is it set too far out?	
CHK_AX010	Check leadscrew coupling grub screws	
CHK_AX011	Check integrity of Step and direction signal cables. Check under heatshrink as excessive heat can melt the cable insulation on original assembly	