

S3040 BASIC RESOLVER TROUBLE-SHOOTING

Position the machine at machine zero. If the position does not read 000 degrees, re-zero the resolver.

Verify 360 degrees per rotation for every two mandrel spaces. Bar the machine forward two mandrel spaces. The position should count up thru 359 and again be at 0 degrees.

Using a DVM (Digital Volt Meter) in AC mode, measure the voltage between R1 and R2 at the S3040 resolver connector. This should read 1.0 to 1.5 VRMS (AC voltage). If no voltage is read, replace the S3040. Be sure the DVM is in AC mode, this is not a DC voltage.

Again using the DVM in AC mode, verify the voltage between S1 and S3 at the S3040 resolver connector while slowly rotating the machine forward. The voltage should vary between 0 and 2.0 VRMS. If the voltage always stays at zero as the machine is moved forward, check the resolver wiring for a loose connection. If the wiring is OK, replace the resolver.

Check the voltage between S2 and S4 at the S3040 resolver connector just as was done for S1 and S3 above. It should read just as S1 and S3 should read.