

## 2.4 Error Code 05 Pneumatic System Components

Fault	Item	Cause/Remedy
05.01.001	Short circuit in fan in pneumatic system	<p>Fan for cooling pneumatic-system printed circuit cards defective or not connected</p> <p>Recognition:</p> <ol style="list-style-type: none"> <li>Actuation current of fan is measured with an A/D converter via a shunt. In normal operation, this fan current must be subject to fluctuations greater than 50 mV. The minimum and maximum levels of this fan voltage are measured for 60 s each. If the max./min. difference is less than 50 mV, this indicates a fault.</li> <li>Measured value of fan voltage = 0 V (open circuit)</li> <li>Measured value of fan voltage greater than or equal to 2.9 V (short circuit)</li> </ol> <p>Trouble-shooting:</p> <ul style="list-style-type: none"> <li>- With diagnosis mode, <a href="#">Refer to section of "Repair Instructions - Service No./ Modi, Error list" chapter 3.4.3, Diagnosis page "Microprocessor" of "Pneumatics", page 74.</a></li> <li>- With external service mode, <a href="#">Refer to section of "Repair Instructions - Service No./ Modi, Error list" chapter 9.3.5, Voltages, page 127.</a></li> <li>- Fan connected?</li> <li>- Fan operation? No = Renew fan Yes = Renew Pneumatic Controller PCB</li> </ul>
05.01.002	Fan in pneumatic system not connected	refer to error 05.01.001
05.01.003	No operation of fan in pneumatic system	refer to error 05.01.001