Information Only Service Note

Supersedes:
NONE

U9405B – Keysight FlexiCore Parallel Test System

Serial Numbers: ALL
Manufacturing ID Number: NIL

The Problem – Top rail bumper block(U9405-30302) causing delays on conveyor movements.

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

Calibration NOT Required	PRODUCT LINE: PL80 AUTHOR: KwanWee LEE

ADDITIONAL INFORMATION:

Situation:

Downward movement of the conveyor rails between the fixed and movable rail becomes unsynchronized after the system is left idle while waiting for the next board to arrive. This results in the board dropping from the conveyor rail before it sits onto the test fixture. The issue happens when the idling time is about 30mins or more. There is no issue if the arrival of boards to the system is continuous.

The cause of the problem is the smooth surface of the top rail bumper block(U9405-30302).

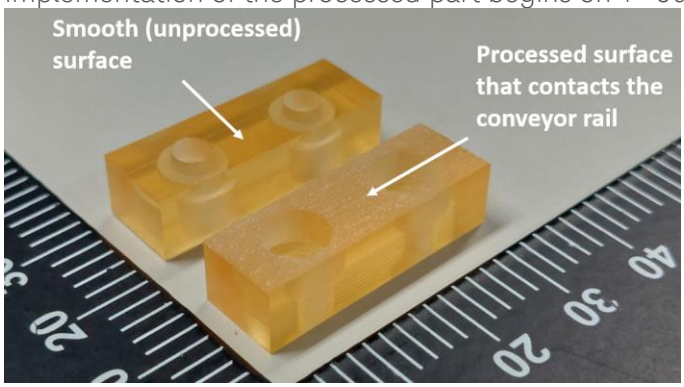
When the conveyor is at the UP position waiting for boards, the cylinder constantly pushes the rail up against the bumper block. If this continues for extended periods of time, the bumper block starts to stick to the conveyor rail. When the next board arrives and conveyor tries to move downwards, the stickiness will delay the movement as it takes slightly longer for the air pressure to break free from the bumper block. This causes the unsynchronized movement and result is dropping of boards from the conveyor.

The impact of this issue is minimal as it affects random units of the bumper blocks on recently shipped systems and only happens when the test system is waiting for DUT for extended period. Typical operating use model has continuous flow of DUT to the test system and will not encounter this issue. Existing systems are installed with older batch of parts will not have this issue either.

Solution/Action:

The top rail bumper block(U9405-30302) will be processed to roughen up the surface which meets the conveyor rail. This eliminates the possibility of the conveyor rail sticking to the bumper block regardless of batch variances.

Implementation of the processed part begins on 1st Jun 2024 starting with serial number TW61330124.



Disposition:
Existing systems are to continue as is and does not need replacement unless similar problem is encountered.

Spare parts inventory will be restocked with the new processed part. Any on-hand old parts are to be consumed as is until depleted.

Revision History:

Date	Service Note Revision	Author	Reason for Change
18 May 2024	01	KwanWee LEE	As Published