

# PRODUCT ADVISORY NOTICE

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## KEEPING YOU INFORMED OF PRODUCT CHANGES

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**To:** All Customers, Sales Representatives and Distributors

**Date:** December 28, 2018

**Subject:** 90 Series Floor Life Reset Instruction Change

This Product Advisory Notice is to alert you that Grayhill is modifying the 90 Series DIP Switch Shelf Reset Instructions. ***Please forward this notification to the appropriate person(s) in your organization.***

### **Description of Change**

All Grayhill DIP switch products that are labelled as moisture sensitive shall be recommended to be baked at a lower temperature profile than what is recommended per J-STD-033C. This standard applies to SMT components in general, and Solid State Surface product specifically. Internal to J-STD-033C, baking temperatures for floor life reset are specified based on the overall package body thickness; however, this standard in practice tends to apply to non-mechanical product. The recommended temperature based on J-STD-033C is 125°C; this temperature has been determined to be overly aggressive. In this nature, J-STD-033C should be disregarded. Additionally, NOTE 5 on the MSID Label of Grayhill's packaging / reel shall be also disregarded.

Due to the mechanical nature of Grayhill's product, the temperature recommended per J-STD-033C causes a breakdown in the lubricant used in the switch body and contributes to the following conditions:

- Oil separation and leeching of lubricant which can potentially impact pick-and-place applications through increased surface tension between the carrier tape pocket and the switch body

Grayhill has NOT seen any evidence of the following conditions caused by the oil separation condition described above:

- Impact on switch solderability.
- Long-term impact on Grayhill product life.
- Long-term impact on additional components exposed to oil from switch lubricant.

The lubricant used in the construction of this switch exhibits a stable chemical nature and is non-reactive under typical conditions of use, storage and transport.

Grayhill recommends the baking procedure for factory floor life reset to be 60°C  $\pm$ 2°C for 26 -28 hours. This temperature is not to be exceeded. Longer drying times may be used; however, they shall not exceed 44 hours. The ideal floor life reset process would be to use a dry box utilizing vacuum drying procedures as opposed to heat drying applications.

Grayhill believes that the only affected products are parts that have been opened and removed from their original packaging and have been exposed to a floor-life reset bake profile either in excess of 100°C or longer than 48 hours. All other products that have not been removed from original packaging (or products that have been reset using a temperature below 100°C or less than 48 hours) have NOT been shown to exhibit any issues. Grayhill believes this product to be fit for use. Additionally, product that has been baked in excess of the procedure recommended herein shall also be deemed generally fit for use in cases where typical automated production processes and schedules are not affected.



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## Effective Date

1/1/2019

## Part Numbers Affected

		# POS	TAPE SEAL?	REEL?	M.S.L.
90 SERIES	90HBW02PRT	2	Y	Y	4
	90HBW03PRT	3	Y	Y	3
	90HBW04PRT	4	Y	Y	3
	90HBW05PRT	5	Y	Y	3
	90HBW06PRT	6	Y	Y	3
	90HBW07PRT	7	Y	Y	3
	90HBW08PRT	8	Y	Y	3
	90HBW10PRT	10	Y	Y	3
	90HBW02PT	2	Y	N	4
	90HBW03PT	3	Y	N	3
	90HBW04PT	4	Y	N	3
	90HBW05PT	5	Y	N	3
	90HBW06PT	6	Y	N	3
	90HBW07PT	7	Y	N	3
	90HBW08PT	8	Y	N	3
	90HBW10PT	10	Y	N	3
	90HBW02RT	2	N	Y	4
	90HBW03RT	3	N	Y	3
	90HBW04RT	4	N	Y	3
	90HBW05RT	5	N	Y	3
	90HBW06RT	6	N	Y	3
	90HBW07RT	7	N	Y	3
	90HBW08RT	8	N	Y	3
	90HBW10RT	10	N	Y	3
	90HBW02T	2	N	N	4
	90HBW03T	3	N	N	3
	90HBW04T	4	N	N	3
	90HBW05T	5	N	N	3
	90HBW06T	6	N	N	3
	90HBW07T	7	N	N	3
	90HBW08T	8	N	N	3
	90HBW10T	10	N	N	3

## Action Required

None. Please contact your Grayhill, Inc. Sales Associate for further information.



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