

# TECHNICAL BULLETIN

## TB – 0140

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### ABB Safelink

#### Background

ABB Safelink Ring Main Unit (RMU), manufactured in 2004, has failed when operating from CLOSE to OPEN position. Based on investigation conducted by ABB, it was concluded this was due to poor quality of grease used in the switch mechanism for the batch manufactured in 2004. (Refer to Hazard Alerts 33/11, 2/12, 50/12 and Safety Bulletin 14/12)

ABB has developed a handle arrester that will prevent the switch from over travelling during an operation.

#### Action

Two (2) handle arresters are to be used when conducting switching on all ABB Safelink RMUs regardless of year of manufacture. There is a CLOSE/OPEN and OPEN/Earth handle arrester as shown in the photos below:



**CLOSE/OPEN**



**OPEN/Earth**

Refer to the attached operating instructions on how to use the handles on the ABB Safelink RMUs. If any switch fails during operation, adhere to this instruction and report the failure to Systems Control.

These handle arresters shall be used by all switchers when operating all models of ABB Safelink regardless of year of manufacture.

**Note: Handle arresters SHALL be used when switching any ABB Safelink RMUs.**

The ban on switching ABB Safelink RMUs manufactured in 2003, 2004 and 2005 when energised is lifted effective 2 April 2013 when using the handle arresters.

For further clarifications, contact:

- (a) Raymond Danam - 98534129 / 0423842533
- (b) Glen Ford - 98536691 / 0418117209
- (c) Mark Sheather - 98536507 / 0417654853
- (d) Beau Radford - 98534085 / 0409772059

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**Contact:** Raymond Danam, Acting Sub station Manager **Phone:** 9853 4129 **Date:** 12 March 2013

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### Annexure 1: Handle Arrester Operating Procedure

|    |                                                                                                          |                                                                                      |
|----|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1  | <p>To operate switch from Close to Open or Open to Close.<br/>Use this device.</p>                       |    |
| 2. | <p>To operate switch from Close to Open or Open to Close. Move selector to the Close (red) position.</p> |  |

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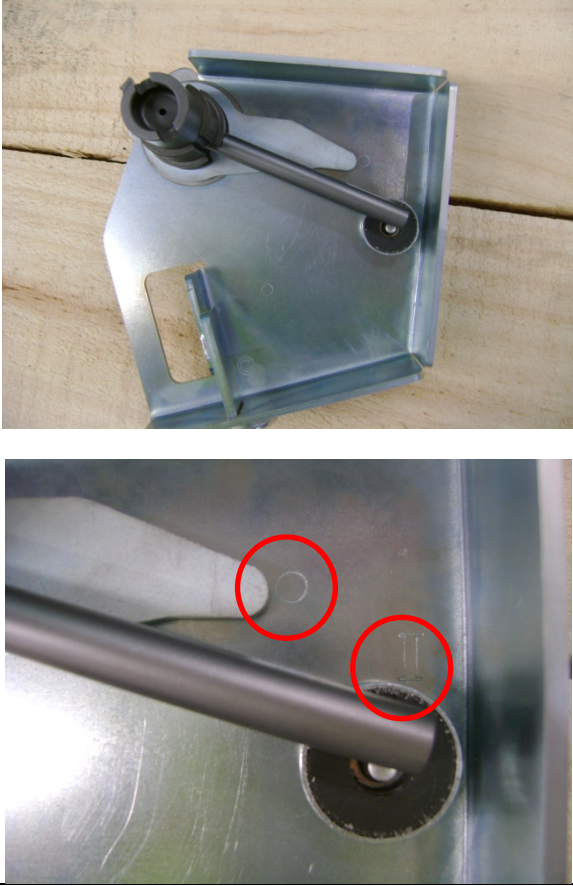
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| 3. | <p>Check switch position and set pin and handle socket to position indicated at the back.</p> <p>If the switch is in the Closed position set as shown.</p> |   |
| 4. | <p>If the switch is in the Open position set as shown.</p>                                                                                                 |  |

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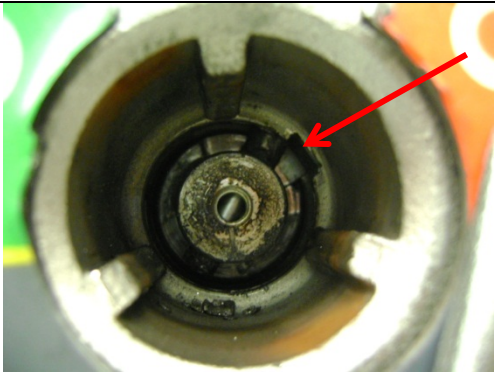
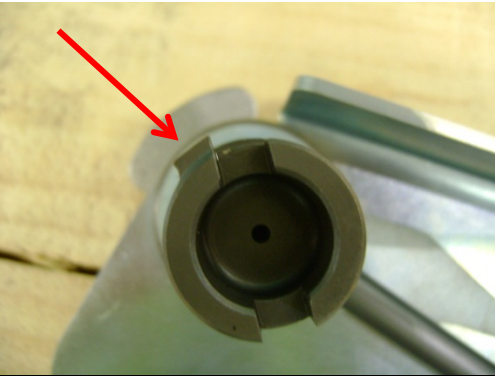
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|    |                                                                   |                                                                                                                                                                           |
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| 5. | Ensure the pin in the handle arrester aligns with slot in socket. | <br> |
| 6. | Insert handle arrester.                                           |                                                                                       |

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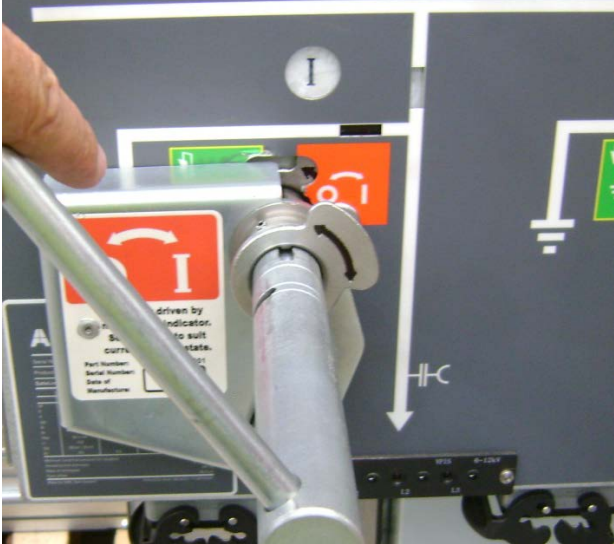
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| 7. | <p>Ensure the handle arrester is fully inserted, the cover needs to be against the mimic panel.</p> <p>If handle arrester is not fully inserted then the mechanism will be locked and not function.</p>                               |   |
| 8. | <p>To OPEN switch<br/>Insert operating handle and rotate anti-clockwise to operate switch to the Open position.</p> <p>To CLOSE switch<br/>Insert operating handle and rotate clockwise to operate switch to the Closed position.</p> |  |

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| 9.  | <p>Switch shown in Open position when the mechanism operates normally. The handle and handle arrester can now be removed.</p> |   |
| 10. | <p>Switch shown in over travel position when the mechanism malfunctions. The symbol is off set in viewing window.</p>         |  |

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| 11. | <p>If handle arrester removal is required follow steps below:</p> <ul style="list-style-type: none"><li>• Insert the operating handle</li><li>• Slowly turn clockwise until the switch is in the Open position (Open symbol to be in the center of viewing window) as shown.</li><li>• Remove the handle arrester.</li><li>• Move selector to the centre position.</li><li>• Place a Warning Tag and shutter lock.</li><li>• Notify Control room.</li><li>• (If required, de-energise the cable on the other end and earth it using the earth handle arrester. Return to the failed switch and earth the switch using the earth handle arrester.)</li></ul> |  |
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| 12. | <p>To operate switch from Earth to Open or Open to Earth.<br/>Use this device.</p>                             |   |
| 13. | <p>To operate switch from Earth to Open or Open to Earth.<br/>Move selector to the Earth (green) position.</p> |  |

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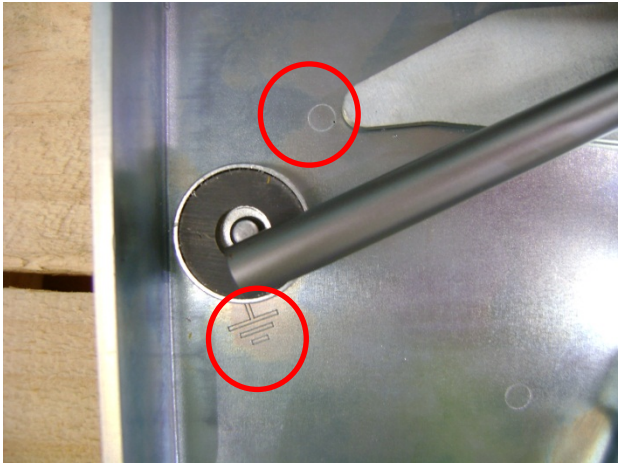
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| 14. | <p>Check switch position and set pin and handle socket to position indicated at the back.</p> <p>If the switch is in the Earth position set as shown.</p> | <br> |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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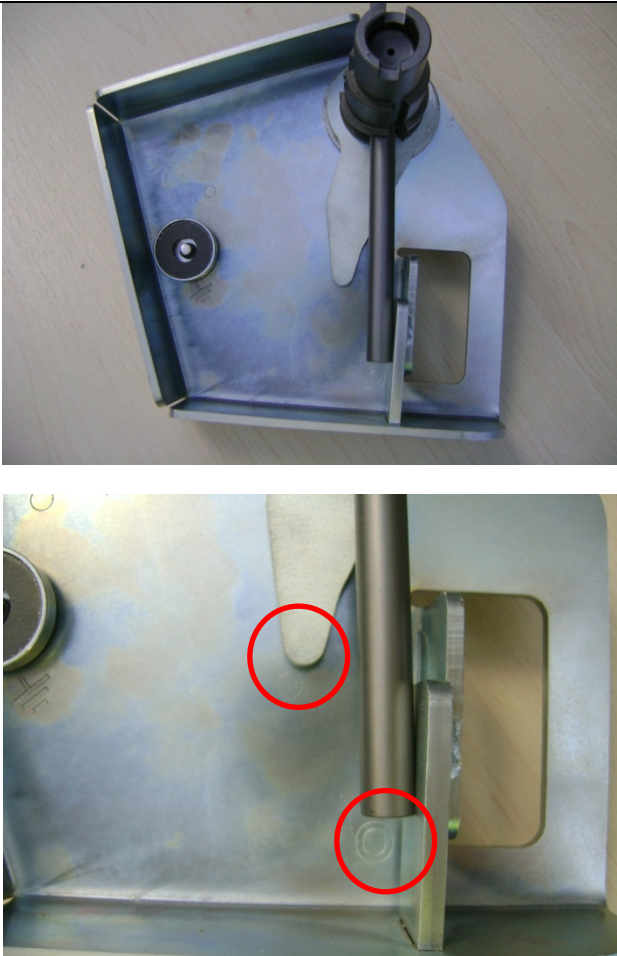
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| 15. | If the switch is in the Open position set as shown |  |
|-----|----------------------------------------------------|-------------------------------------------------------------------------------------|

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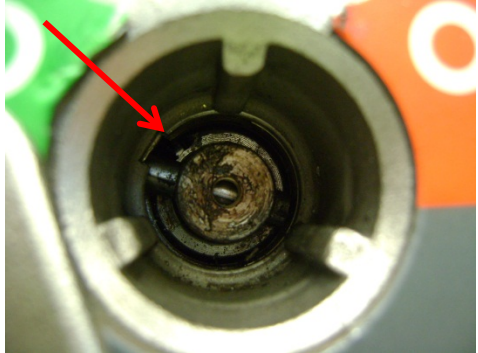
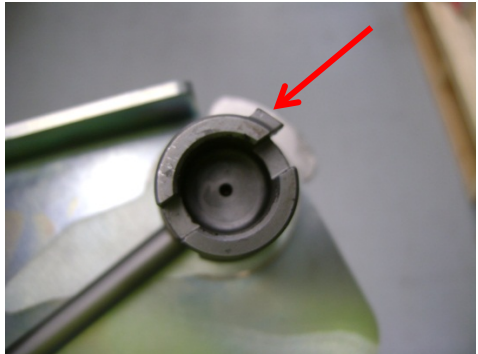
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| 16. | Ensure the pin in handle arrestor aligns with slot in socket |   |
| 17. | Insert handle arrestor.                                      |                                                                                                                                                                        |

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| 18. | <p>Ensure the handle arrester is fully inserted, the cover needs to be against the mimic panel.</p> <p>If handle arrester is not fully inserted then the mechanism will be locked and not function.</p>                             |   |
| 19. | <p>To EARTH the switch<br/>Insert operating handle and rotate anti-clockwise to operate switch from Open to Earth.</p> <p>To OPEN switch<br/>Insert operating handle and rotate clockwise to operate switch from Earth to Open.</p> |  |

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| 20. | <p>Switch shown in Open position when the mechanism operates normally.</p> <p>The handle and handle arrester can now be removed.</p> |   |
| 21. | <p>Switch shown in over travel position when the mechanism malfunctions. The symbol is off set in the viewing window.</p>            |  |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 22. | <p>If handle arrester removal is required follow steps below:</p> <ul style="list-style-type: none"><li>• Insert the operating handle</li><li>• Slowly turn counter clockwise until the switch is in the Open position (Open symbol to be in the center of viewing window) as shown.</li><li>• Remove the handle arrester.</li><li>• Move selector to the centre position.</li><li>• Place a Warning Tag and shutter lock.</li><li>• Notify Control room.</li><li>• (If required, earth the cable on the other end using the earth handle arrester. Return to the failed switch and earth the switch using the earth handle arrester.)</li></ul> |  |
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