

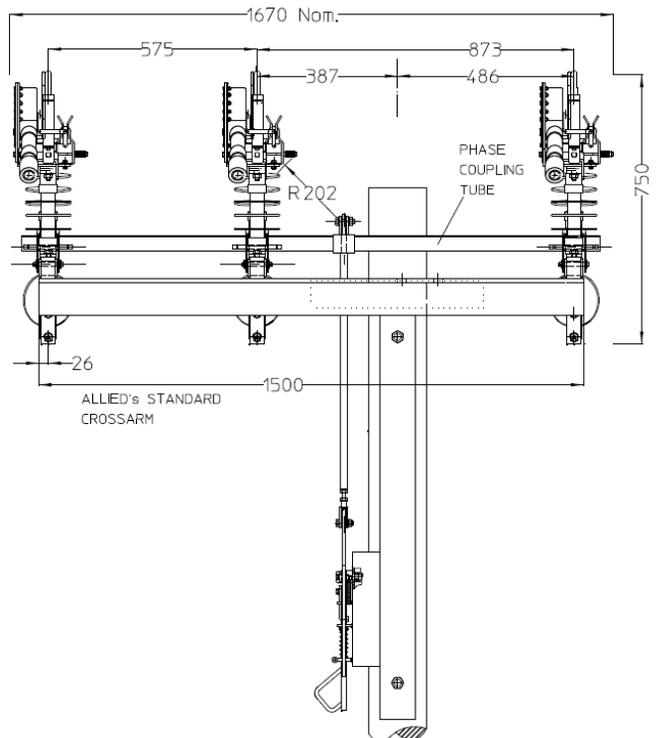
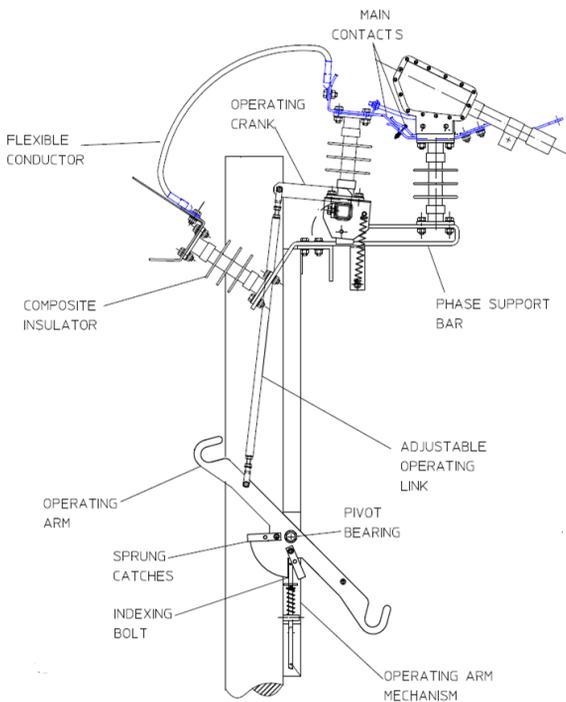
ABSD Installation & Operation Manual



Allied **Insulators**



Cat 0 – ABSD
Independent Manual



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ABSD Installation Kit

Main
T-Piece



Crossarm



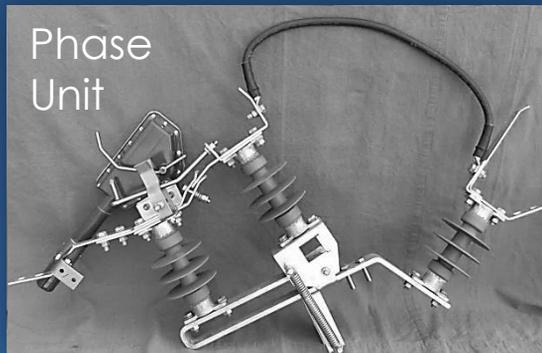
Coupling Tube



Operating Link



Crank



Bolt Fixings

M20 Pole Bolts (not supplied)

M16mm Bolt Pack

M12 Fixing Nuts & Washers for Phase Units

5 Step ABSD Installation (Tools – 19/30mm Socket Wrench, 19mm Ring Spanner)

1. Drill pole & fix **Main T Piece** to pole using 2 x M20 Pole Bolts.
2. Fix **Crossarm** (either Left or Right Handed depending on preference or obstructions) using 2 x M20 Fixing Bolts. Crossarm must be level
3. Mount **Phase Units** and loosely fasten M12 fixing nuts.
4. Slide **Coupling Tube** ensuring **Crank** fitted accordingly in line with handle & the crank bar on top. Align **Coupling Tube** ensuring sufficient overhang each end and tighten fixing bolts in the following order → [Phase Units to Coupling Tube] → [Phase Units to Crossarm]
5. Connect **Operating Link** to the switch handle, align vertically with **Crank** and tighten lock nuts. Do not over tighten, ensure free movement of the ABSD Handle at all times.

Adjustment should not be required as all ABSD's are factory set, but if necessary minor adjustment can be achieved via the threaded end fittings on the **Operating Link**. Ensure any adjustment is made evenly at both ends as required.



Main Assembly Complete. Please read the Commissioning Guide overleaf prior to operation.

Commissioning & Operation

CAUTION – when the ABSD is in the open position the springs are charged and pose a pinching and shearing danger. Ensure all tools, clothing and personnel are clear prior to operation of the ABSD. (Applies to Independent Manual ABSD Only)

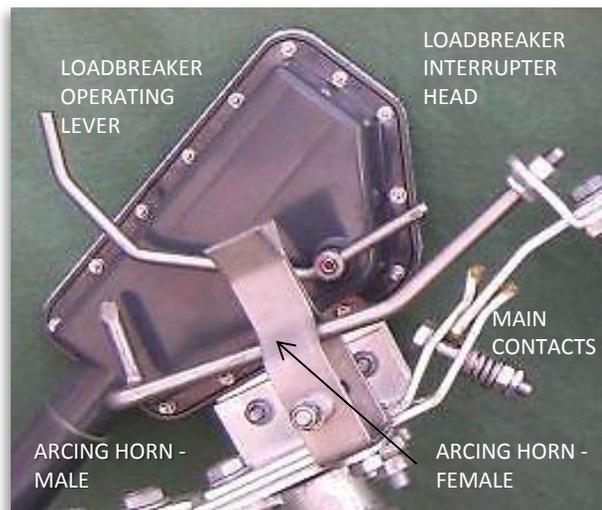


Commissioning Checks

The ABSD has been bench tested and fully assembled, operated and checked prior to delivery to site hence commissioning on site should be a simple matter of checking for the following

- Ensure no damage has occurred in transit and nothing is obviously misaligned.
- Check all bolts for tightness and ensure free movement in handle and operating link.
- Check alignment of the main contacts and load break head.
- Check all moving parts are adequately lubricated and free to move.

Loadbreaker Operation



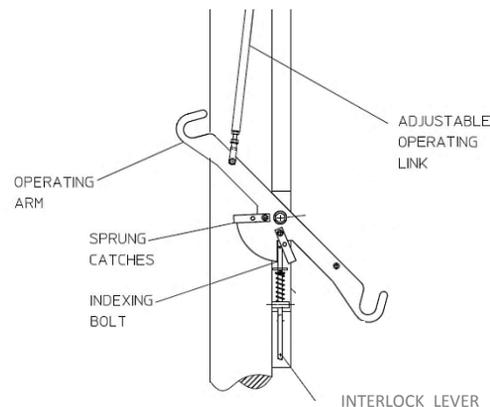
1. When the ABSD is closed the Arcing horn sweeps past the Loadbreaker operating lever and sits ready for the opening sequence. **Ensure the Arc horn is aligned to engage with the Loadbreaker operating lever.**
2. The Loadbreaker & Arcing horn are not in circuit when the ABSD is closed.
3. As the ABSD is opened the Arcing horn engages the Loadbreaker operating lever and transfers the load through the Loadbreaker as the main ABSD contacts separate.
4. At a given moment during the opening cycle the rotation of the Loadbreaker operating lever operates the load break device thus breaking the circuit load.
5. The arcing horn then sweeps clear of the Loadbreaker operating lever and the Loadbreaker automatically resets ready for the next operation.

Operating Instructions

TO OPEN THE ABSD

- PULL DOWN ON THE INTERLOCK LEVER (THE SPRING LATCH MOVES INTO POSITION TO RETAIN THE INDEXING BOLT)
- USING A DECISIVE POSITIVE ACTION PULL DOWN ON THE UPPER MAIN OPERATING ARM HOOK (NOTE THERE IS A CERTAIN DEGREE OF FORCE REQUIRED TO OVERCOME THE SPRING TENSION)
- THE INDEXING BOLT WILL NOW HAVE RE-ENGAGED PREVENTING FURTHER OPERATION.

THE SWITCH CONTACTS ARE VISIBLY OPEN



TO CLOSE THE ABSD

- PULL DOWN ON THE INTERLOCK BOLT (THE SPRING LATCH MOVES INTO POSITION)
- USING A DECISIVE POSITIVE ACTION PULL DOWN ON THE UPPER MAIN OPERATING ARM HOOK
- AS THE SWITCH MOVES OVER TDC THE SPRINGS WILL ASSIST THE CLOSING OF THE ABSD
- THE INTERLOCK BOLT WILL NOW HAVE RE-ENGAGED PREVENTING FURTHER OPERATION.

THE SWITCH CONTACTS ARE VISIBLY CLOSED



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78 Cryers Road, East Tamaki, Auckland, 2013 NEW ZEALAND

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