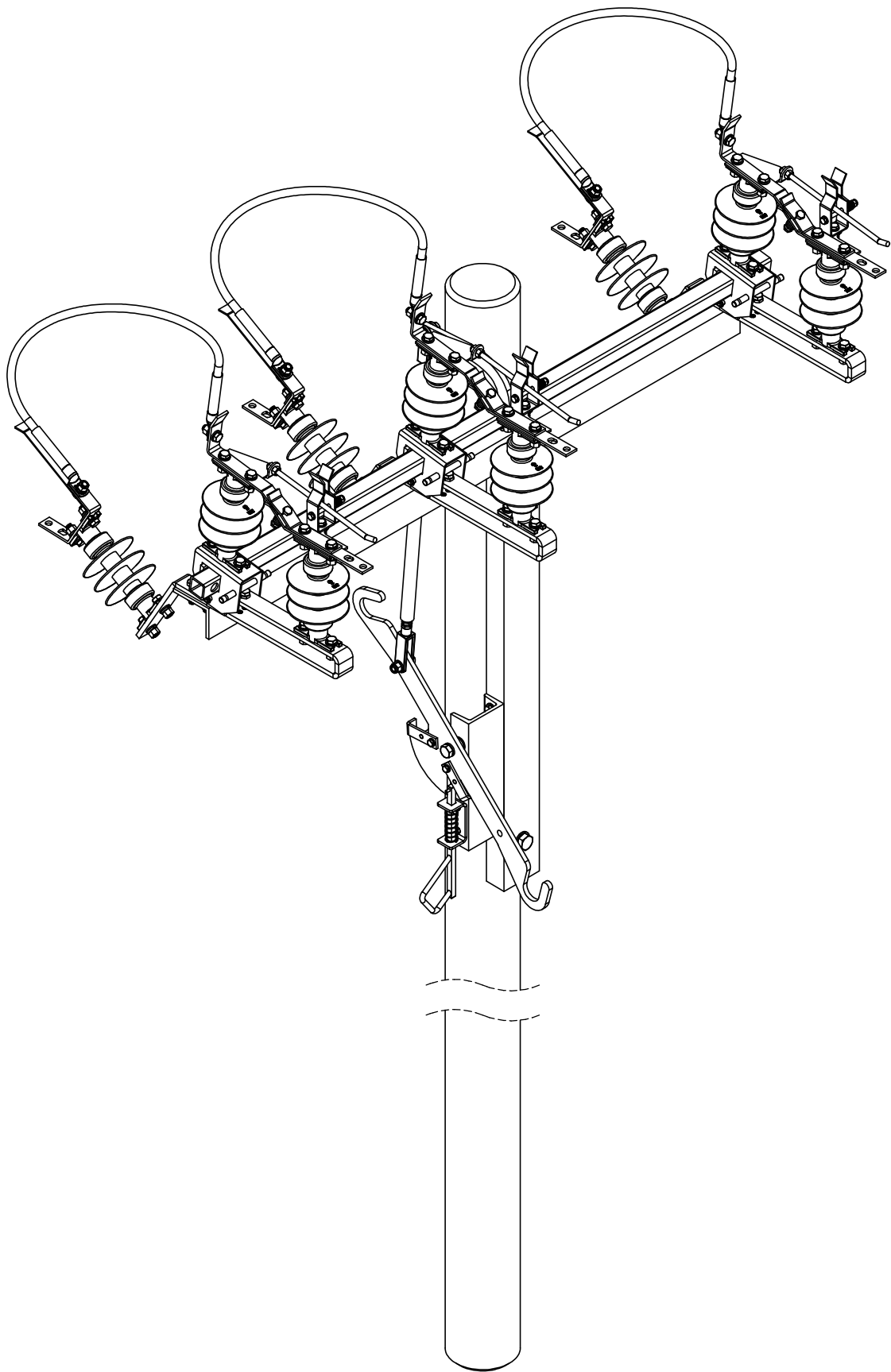


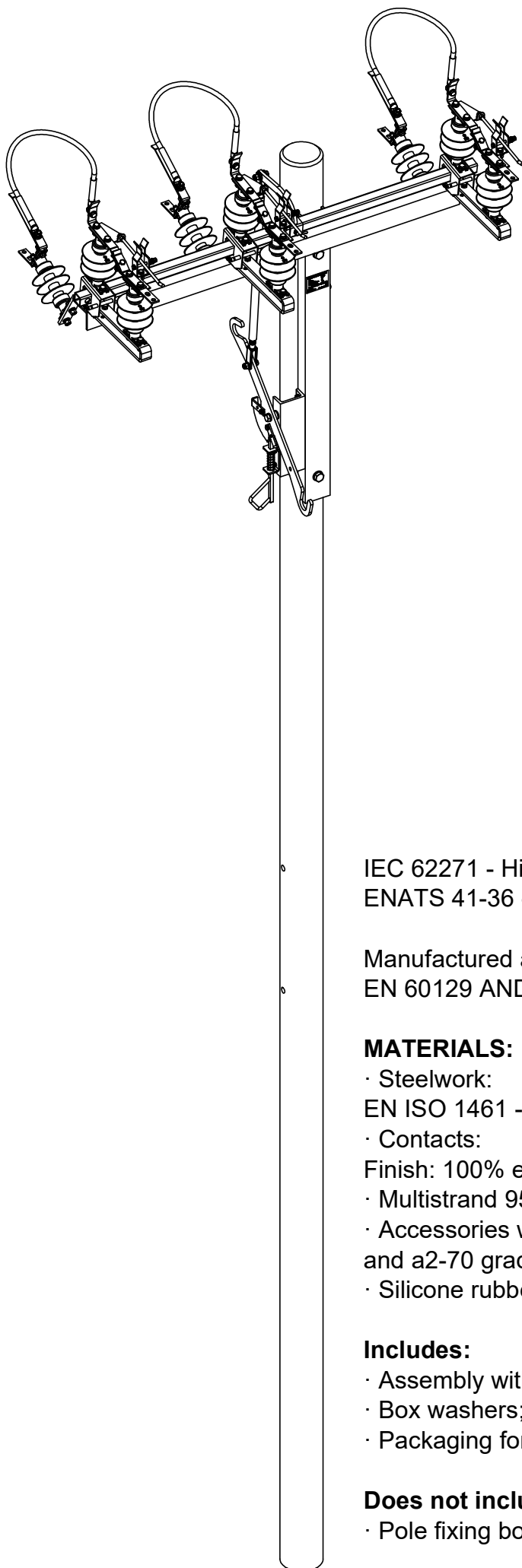
AIR BREAK SWITCH DISCONNECTOR

CAT 2 – 11 KV ABSD



Allied Insulators

ABSD LONG T PIECE



- Operating pole length 855 mm
- Crossarm 1500 mm
- Coupling tube 1600 mm
- Pole t piece 475 mm width 1200 mm length
- Crank 270 mm displacement
- Remote handle
- Phase unit assembly includes 3x11kv post insulator units

87	
AIR BREAK SWITCH DISCONNECTOR	
TYPE	
CATEGORY	
RATED VOLTAGE	
RATED NORMAL CURRENT	
RATED SC MAKING CURRENT (peak)	
RATED ST WITHSTAND CURRENT	
SERIAL No.	DATE
MADE IN ENGLAND	
www.alliedinsulators.com	
Allied Insulators	
67	

IEC 62271 - High Voltage Switchgear and Control Gear
ENATS 41-36 - Distribution Switchgear for service up to 38KV

Manufactured and tested in accordance with IEC 60694, IEC 62271, BS
EN 60129 AND ENATS 41-36

MATERIALS:

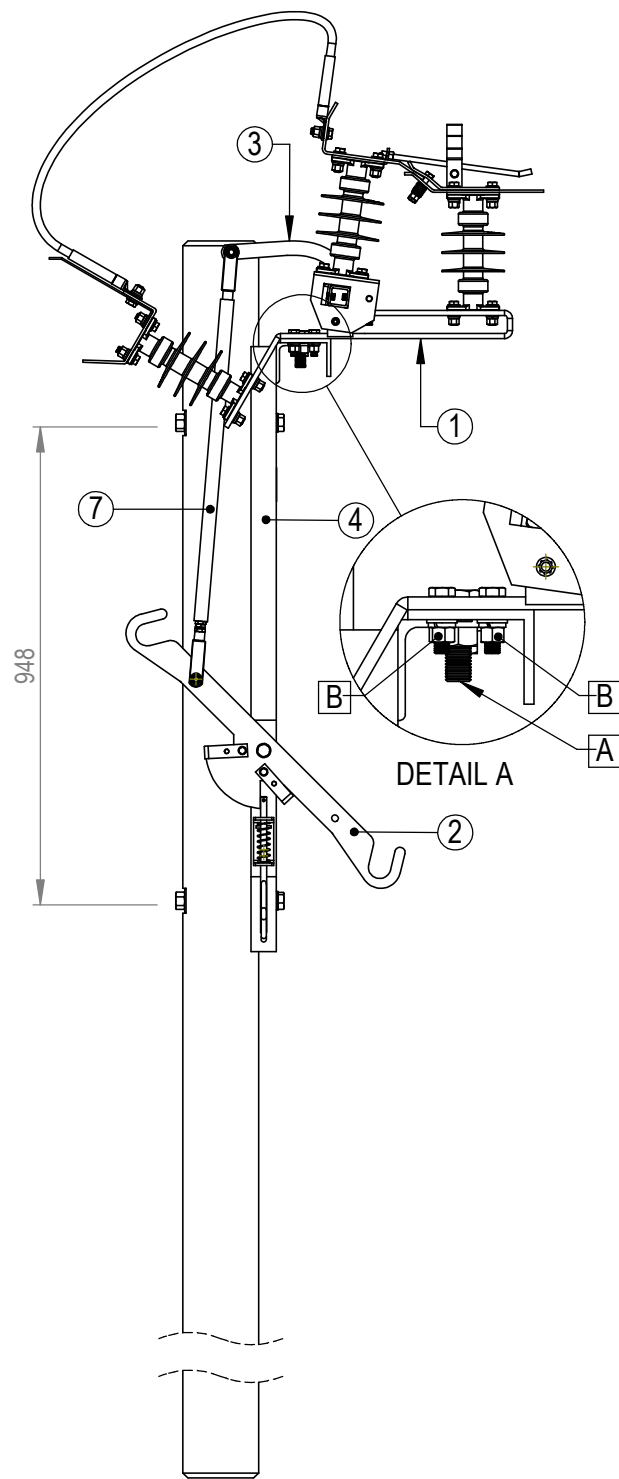
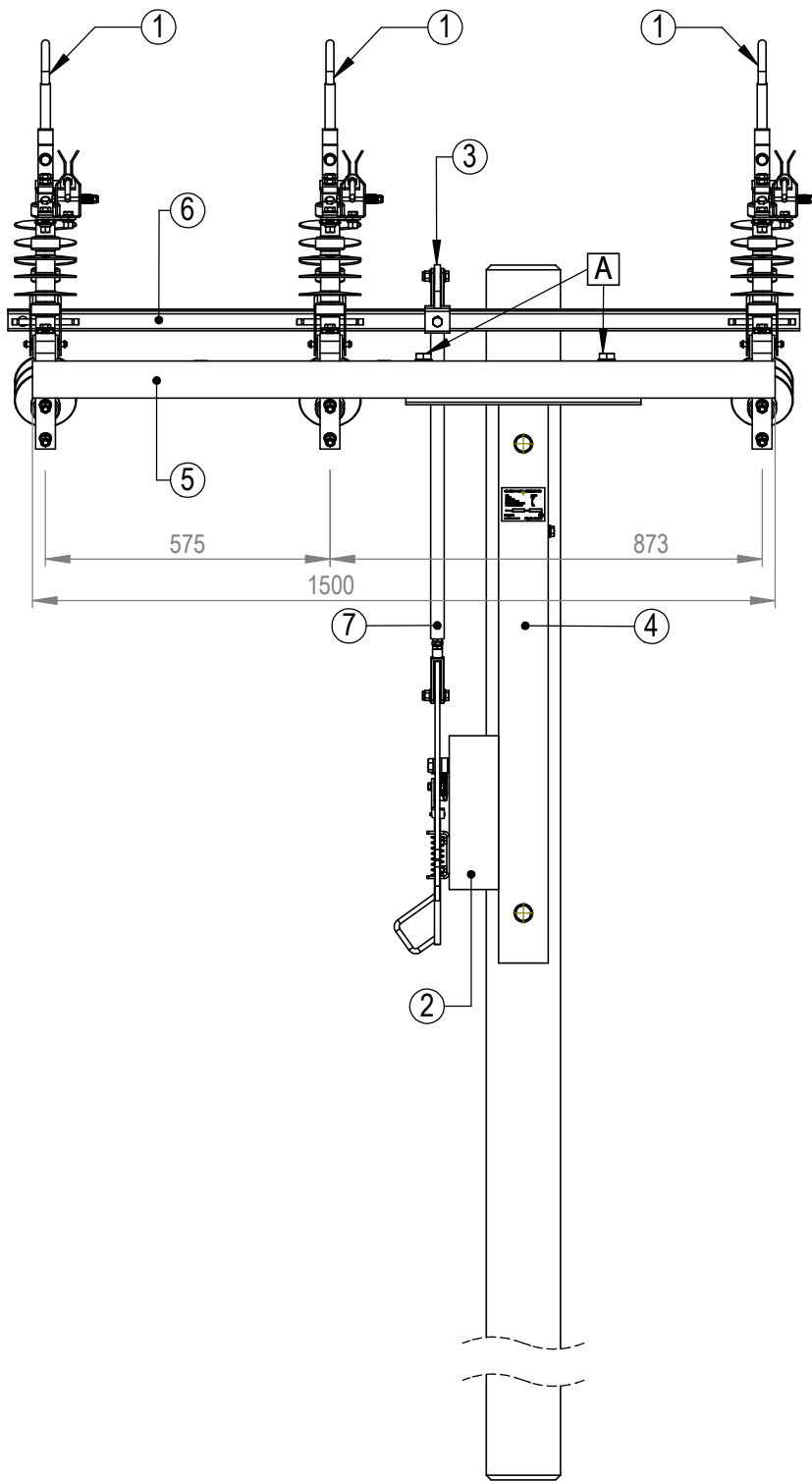
- Steelwork:
EN ISO 1461 - hot dipped galvanized;
- Contacts:
Finish: 100% electro tin to BS 1872;
- Multistrand 95mm² PVC sheathed copper cable;
- Accessories with bolts, nuts and washers in class 8.8 galvanized steel and a2-70 grade stainless;
- Silicone rubber composite insulators.

Includes:

- Assembly with bolts, nuts and washers;
- Box washers;
- Packaging for transportation (wood in accordance with standards).

Does not include:

- Pole fixing bolts.



REF.	PART DESCRIPTION	QTY.	WEIGHT (kg)
1	PHASE UNIT	3	18.00
2	REMOTE HANDLE	1	0.00
3	CRANK	1	1.15
4	T- PIECE	1	8.20
5	CROSS ARM	1	15.60
6	COUPLING TUBE	1	6.40
7	OPERATING POLE	1	8.00
		9	57.35

	REF.	ELEMENTS	MATERIAL	QTY.	WEIGHT (kg)
ABSD KIT	A	SCREW M20X60	GALVANIZED STEEL	2	0.8
		WASHER M20			
		NUT M20			
		BOX WASHER			
	B	WASHER 2XM12	A2-70	6	
		NUT M12			
		STEEL SPRING WASHER 12 mm			

1x Coupling tube length 1600 mm

1x Cross Arm length 1500 mm

1x Operating pole length 640 mm and Crank

1x Short T - piece length 1200 mm and remote handle

2x Box washer
45.25 X 45.25 (mm)

2x Hex nut
M20

2x Plain washer
M20

2x Hex set screw
M20X60

6x Hex nut
M12

6x Plain washer
M12

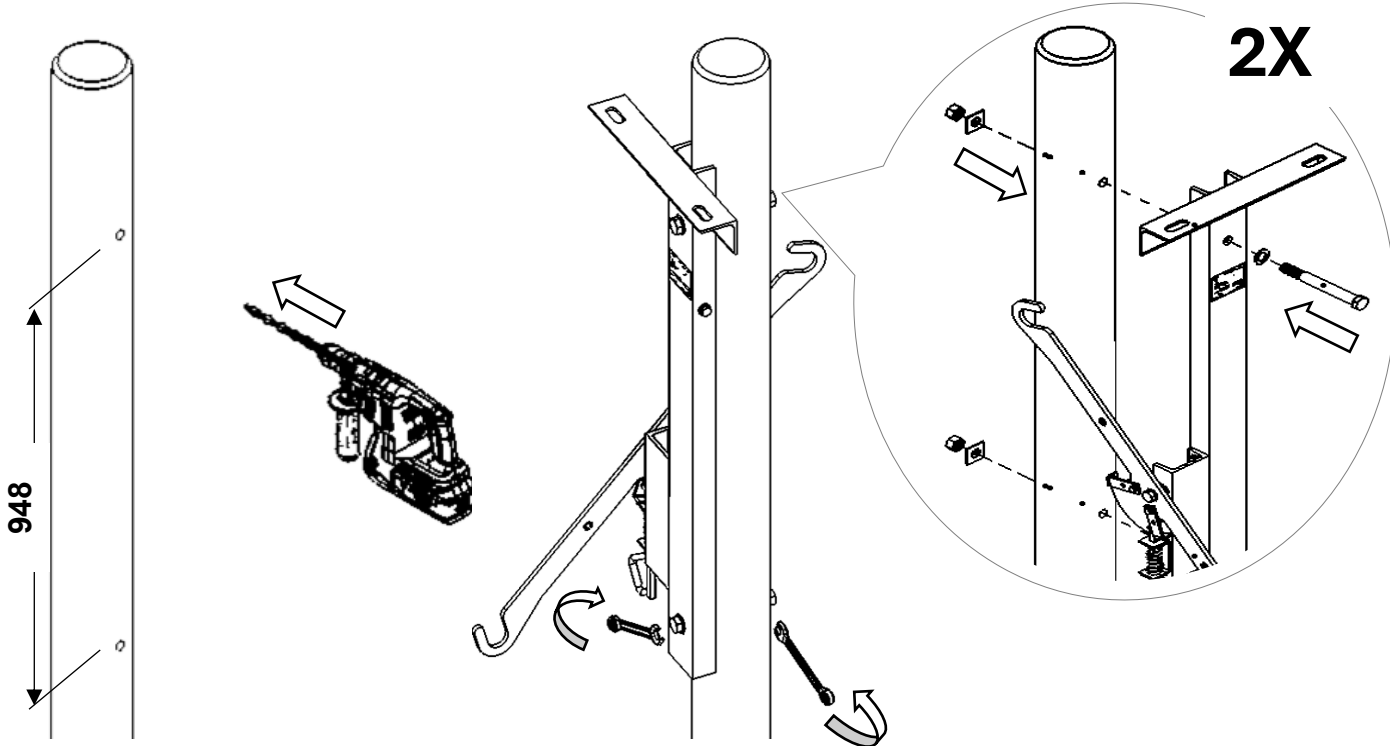
6x Steel spring
washers M12

3x Phase unit

6 STEP ABSD INSTALLATION

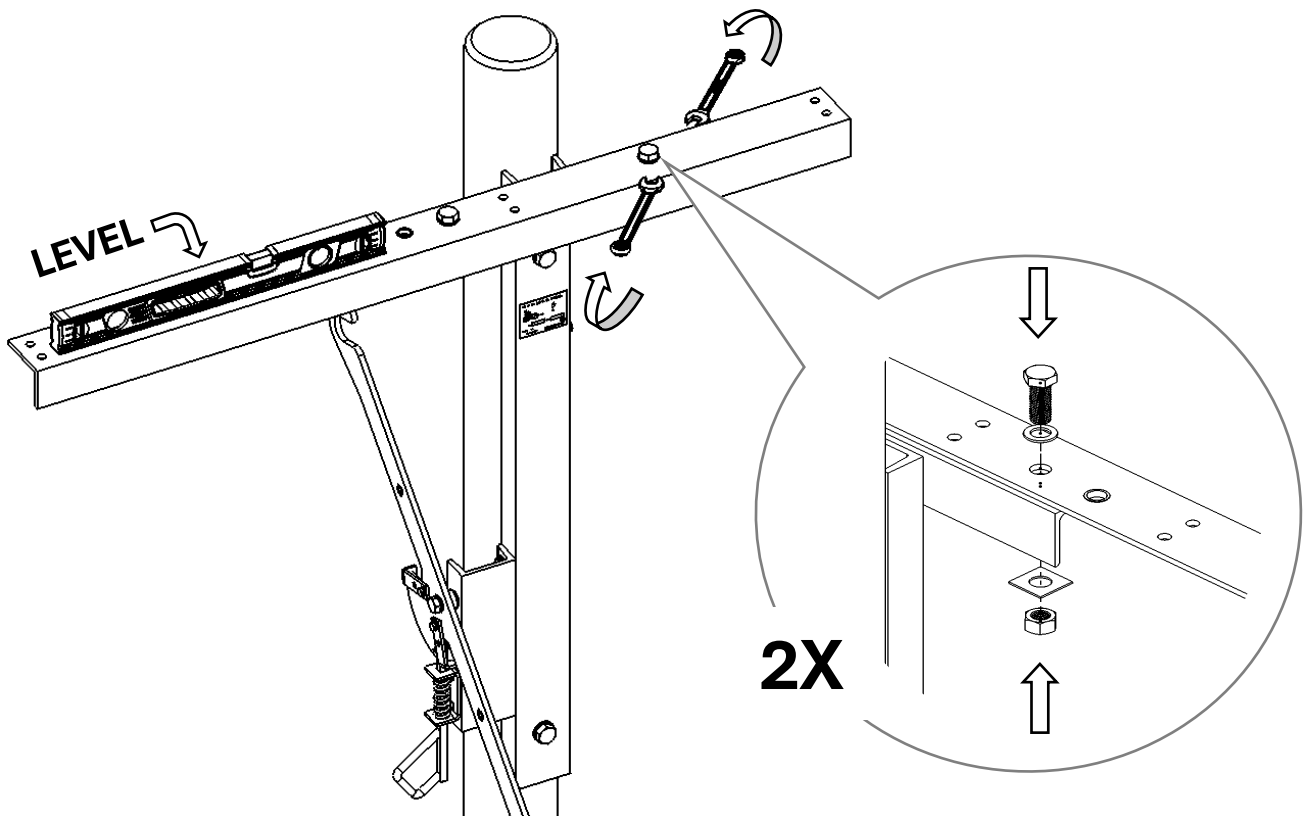
1

Drill pole & fix **Main T Piece** using 2xM20 Pole Bolts. (Not included)



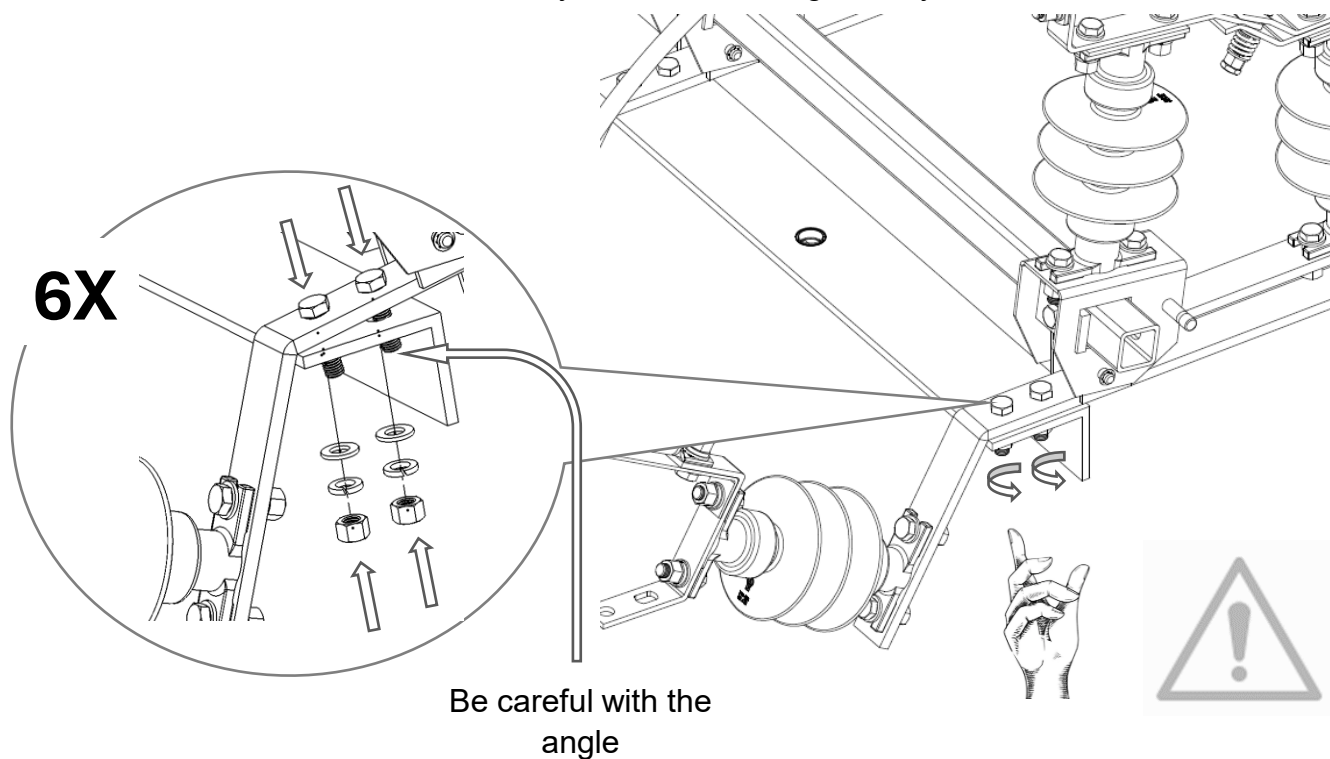
2

Fix **Cross arm** (either Left or Right Handed depending on preference or obstructions) using 2 x M20 Fixing Bolts. Crossarm must be level.



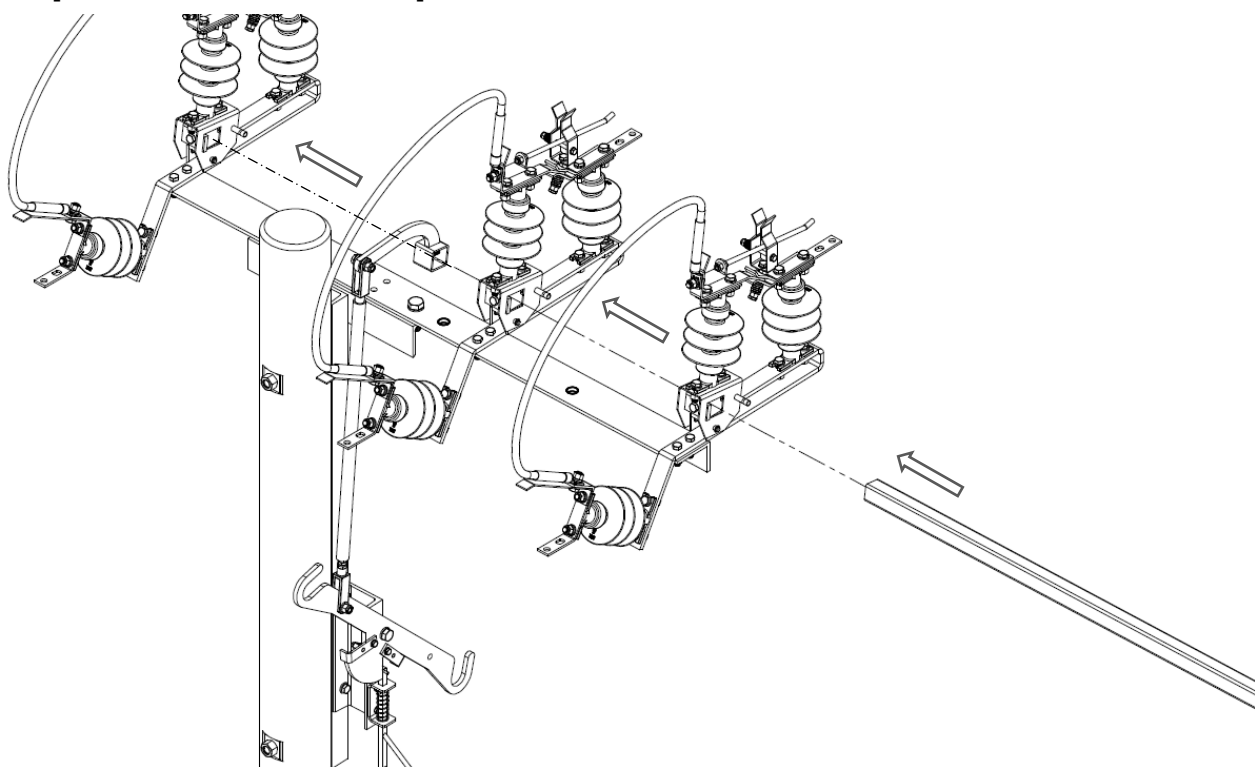
3

Mount Phase Units and loosely fasten M12 fixing nuts by hand.

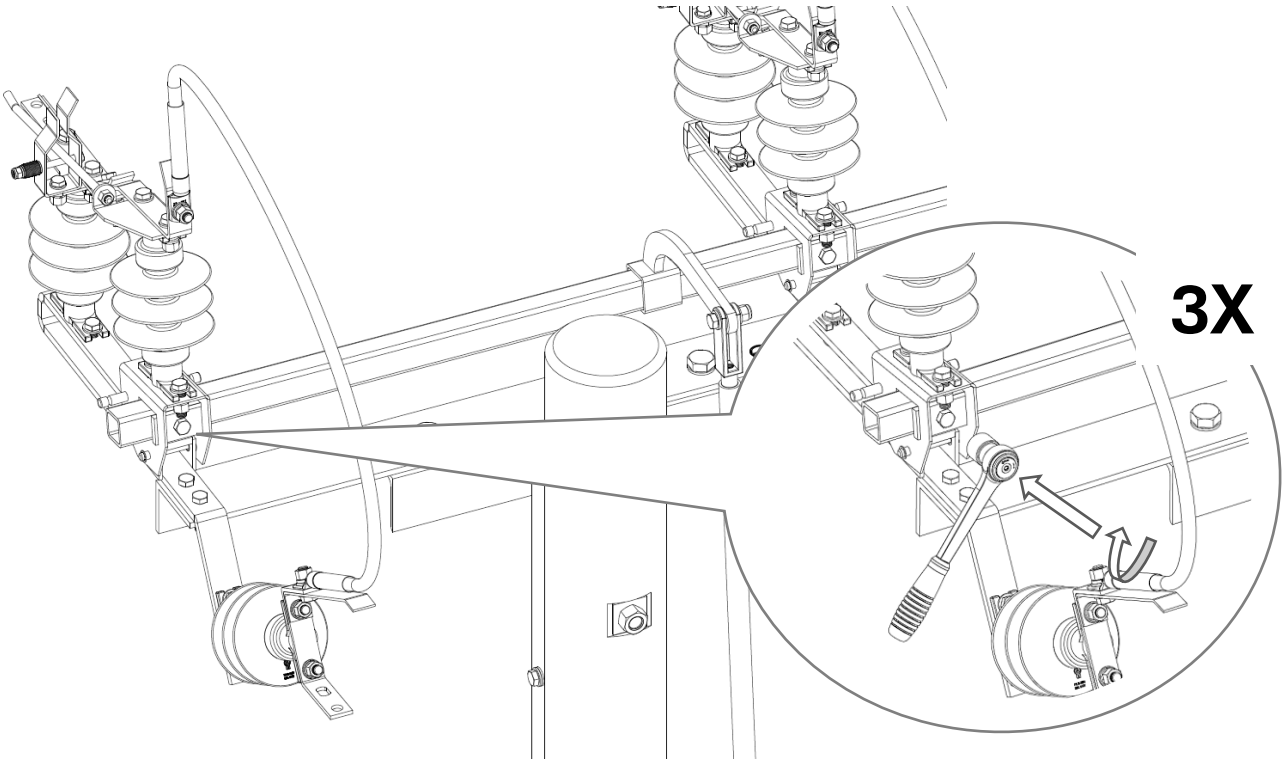


4

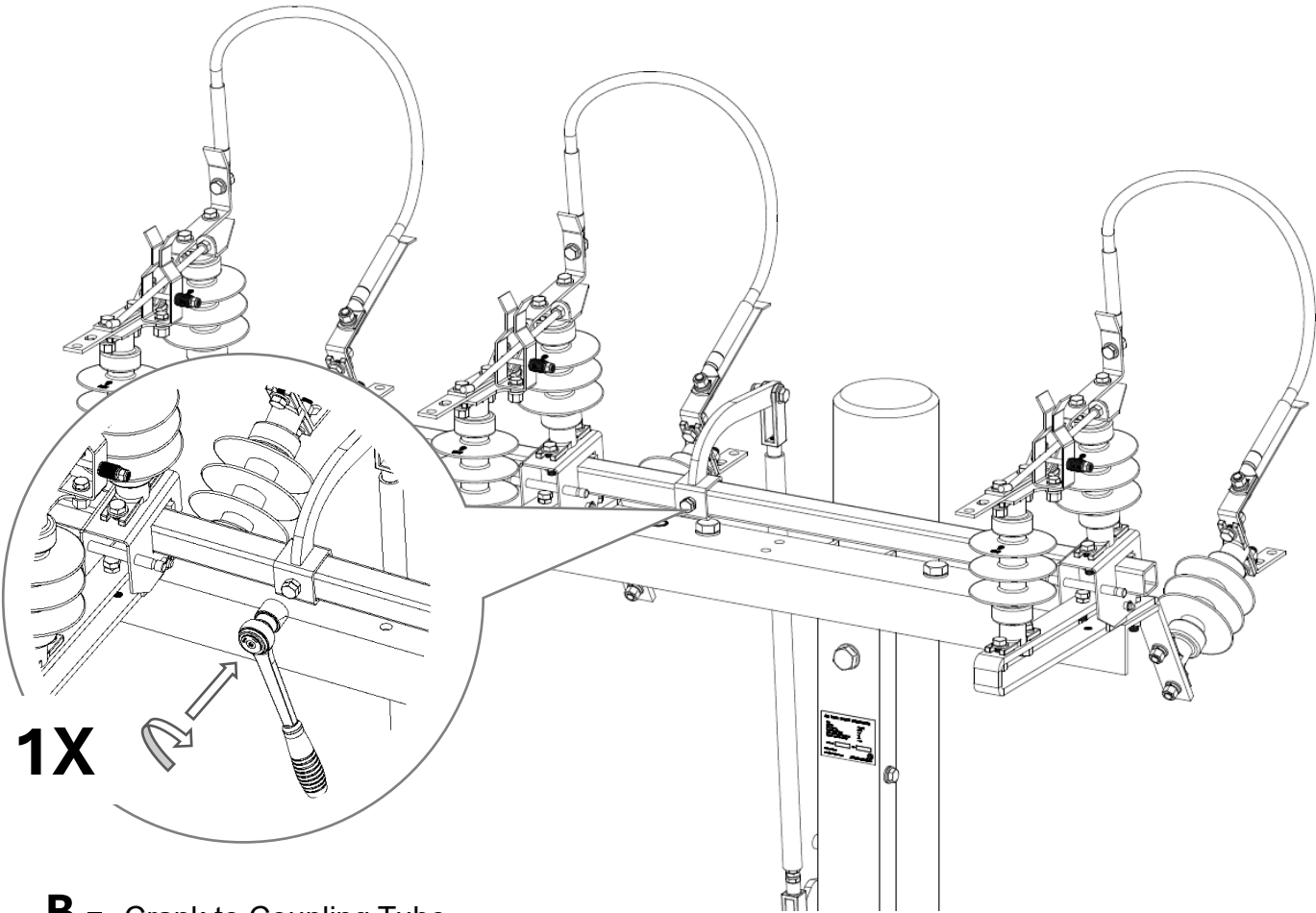
Slide **Coupling Tube** ensuring Crank is fitted in line with the handle & the crank bar on top. Align **Coupling Tube** ensuring sufficient overhang each end and tighten fixing bolts in the following order → [Phase Units and crank to Coupling Tube] → [Phase Units to Crossarm].



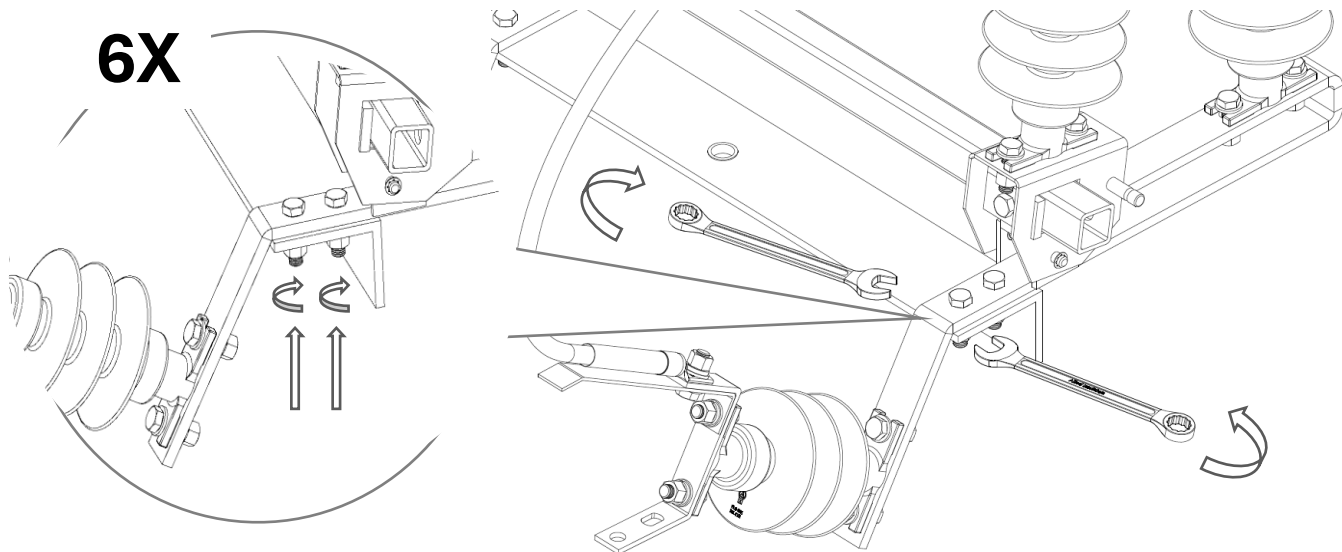
BOLT TIGHTENING SEQUENCE:



A - Phase Units to Coupling Tube



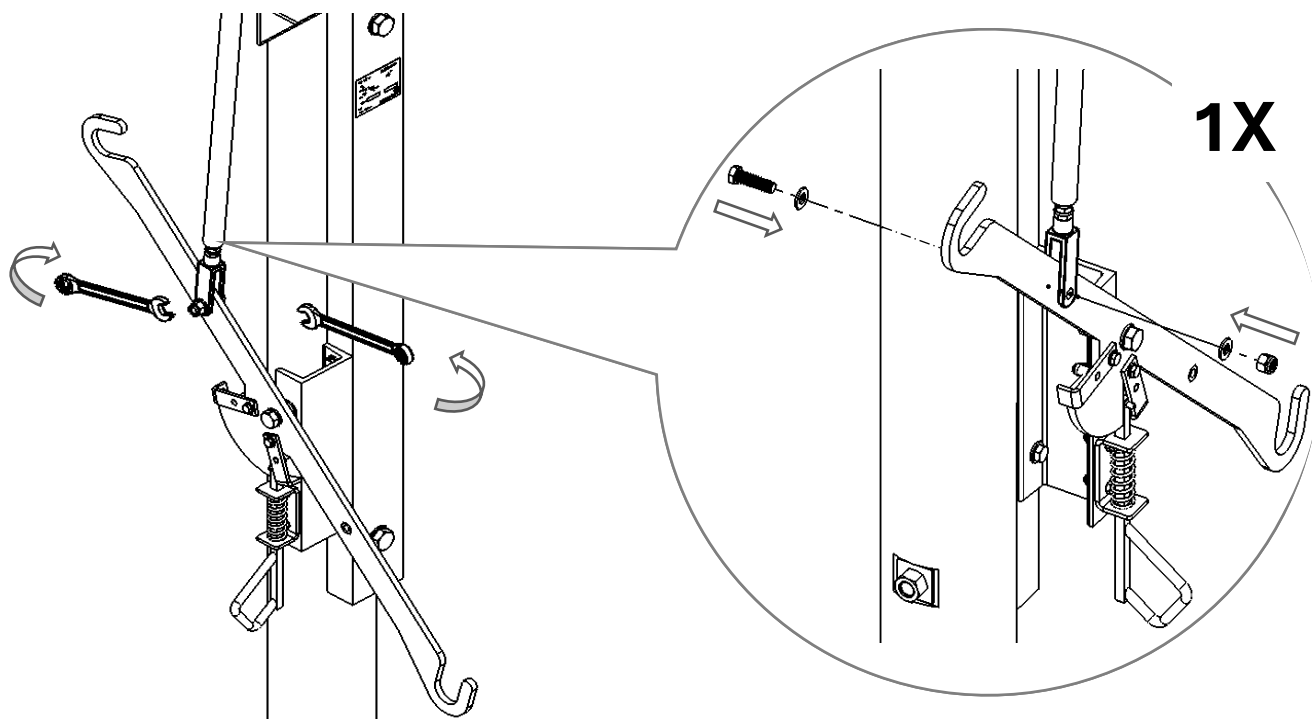
B - Crank to Coupling Tube



C - Phase Units to Crossarm.

5

Connect the **Operating Link** to the **Remote Handle** and tighten the lock nut. Do not over tighten. Mark position of the fixing holes. Ensuring free movement of the ABSD Handle at all times.



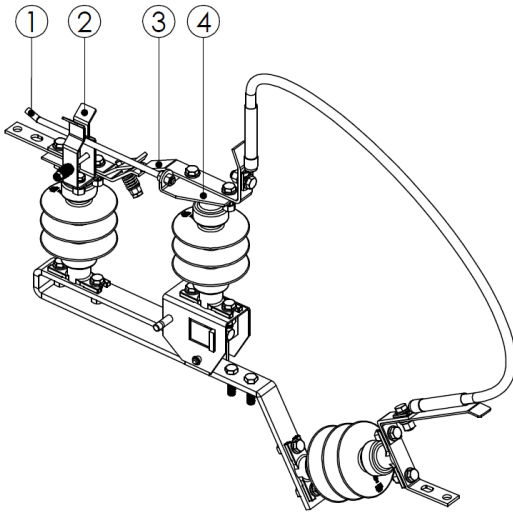
Adjustment should not be required as all ABSD's are factory set, but if necessary minor adjustment can be achieved via the threaded end fitting on the Operating Link

COMMISSIONING CHECKS

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

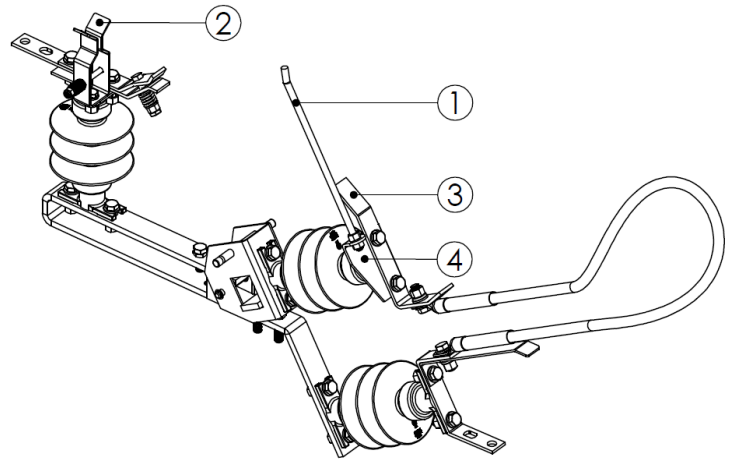
- Ensure no damage has occurred in transit and nothing is obviously misaligned.
- Check all bolts for tightness and ensure free movement in handle and operating link.
- Check alignment of the main contacts.
- Check all moving parts are adequately lubricated and free to move.

OPERATING INSTRUCTIONS



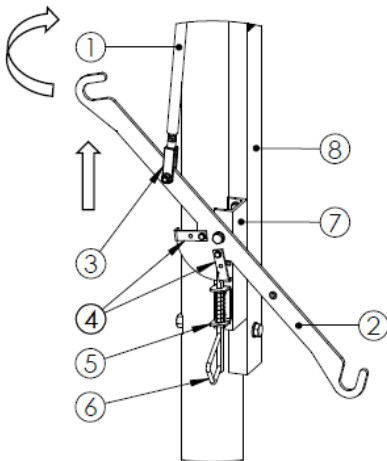
ABSD Position is closed

- 1 - Arc Horn Rod Male
- 2 - Arc Horn Contactor Female
- 3 - Main Contacts



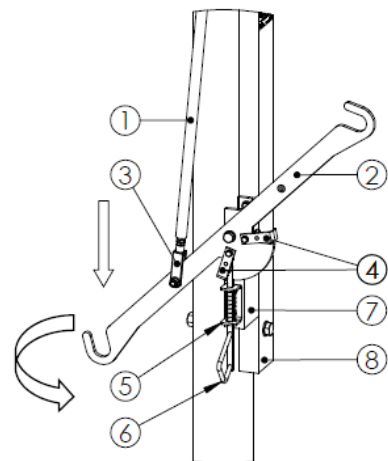
ABSD Position is open

- 4 - Arc Horn Male Mounting Bracket



Remote Handle (ABSD position is closed)

- 1 - Tube
- 2 - Operating arm
- 3 - Threaded clevis
- 4 - Sprung latch



Remote Handle (ABSD position is open)

- 5 - Index bolt support bracket
- 6 - Indexing bolt
- 7 - Operating arm mounting
- 8 - Pole T piece

TO CLOSE THE ABSD

- Pull down on the Indexing bolt (the spring latch moves into position)
- Using a decisive positive action pull down on the upper main operating arm hook
- The Indexing bolt will now have re engaged preventing further operation.

The switch contacts are visibly closed

TO OPEN THE ABSD

- Pull down on the Indexing bolt (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
- The indexing bolt will now have re-engaged preventing further operation.

The switch contacts are visibly open



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