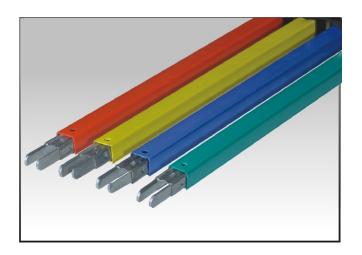




"M" Pin Type

GI Conductor Bar 60 Amps To 125 Amps Copper Conductor Bar 160 Amps To 315 Amps





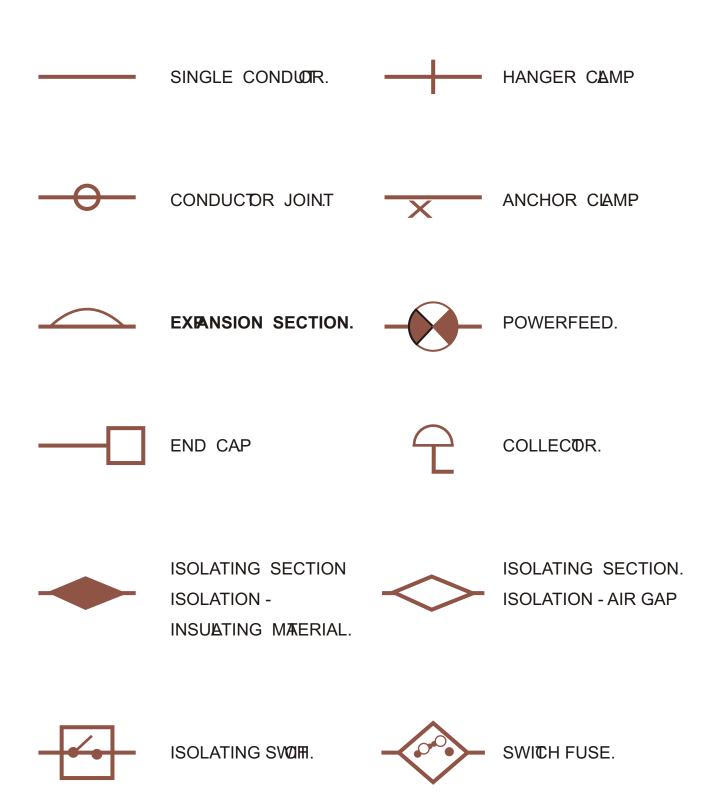
INSTALLATION & MAINTENANCE INSTRUCTIONS

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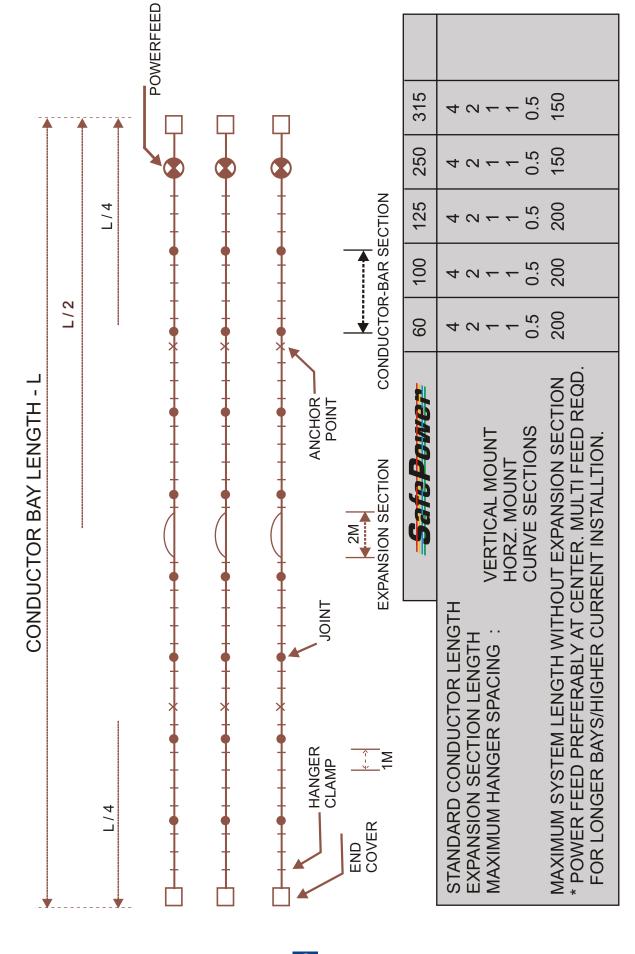


CONDUCTOR SYSTEM NOMENCLATURE



TYPICAL 3 PHASE CONDUCTOR SYSTEM

METRES





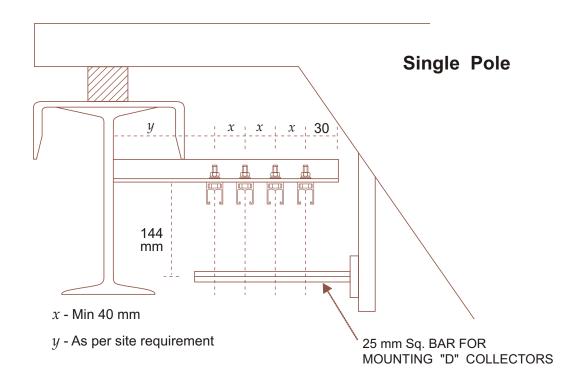
1. TOOL KIT REQUIRED

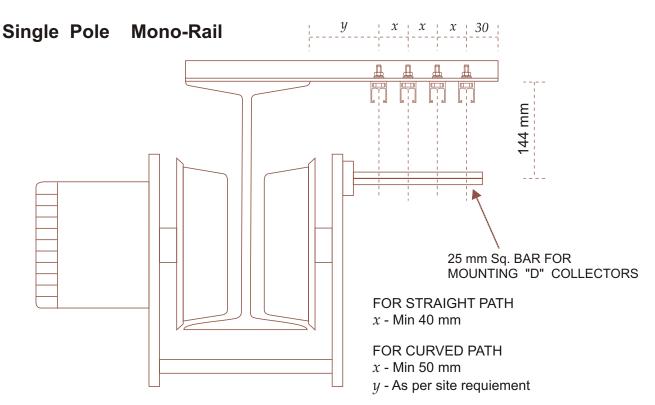
- i) JOINTING TOOL . Supplied with every installtion.
- ii) COLLECT OR MOUNTING GAUGE. Supplied with every installtion.
- iii) SCREW DRIVER 6".
- iv) SPANNERS 10/11 12/13 & 14/15
- v) CRIMPING TOOL FOR COPPER CONDUCTOR ONLY.
- 2. ATTENTIONOTTHE FOLLOWING WILL ENSUREA TROUBLE FREE SYSTEM
 - i) CORRECT ALIGNMENT OF SUPPORT BRACKETS.
 - ii) ENSURETHAT CONDUCTOR JOINTSARE NOT AGAINST HANGER CLAMPS.
 - iii) WHEREVER POSSIBLE USE THE STANDARD BRACKET PITCH.
 THIS WILL AVOID CONDUCTOR JOINTS FOULING SUPPORT
 BRACKETS.
 - iv) CORRECT ALIGNMENT OF COLLECTOR WITH CONDUCTOR BARS WITH THE USE OF COLLECTOR MOUNTING GAUGE.
 - v) ENSURETHAT ALL POWER CABLE CONNECTIONSARE FLEXIBLE TO ALLOW FOR CONDUCTOR MOVEMENTOUE TO EXPANSION & CONTRACTION. MAINS CABLE PREFERABLY BE TERMINATED INA JUCTION BOX. SEPERATE FLEXIBLE LEADS FOR CONNECTION TO CONDUCTOR FEED POINTS.



TYPE OF INSTALLATIONS

HORIZONTAL MOUNTING



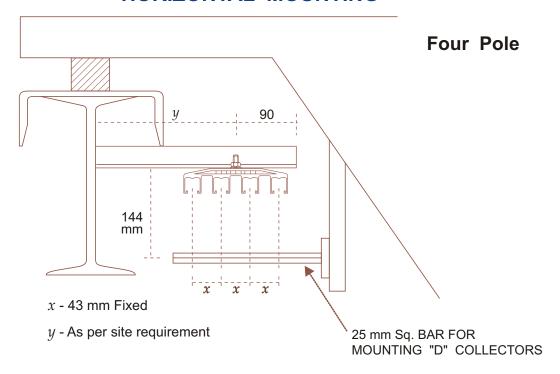


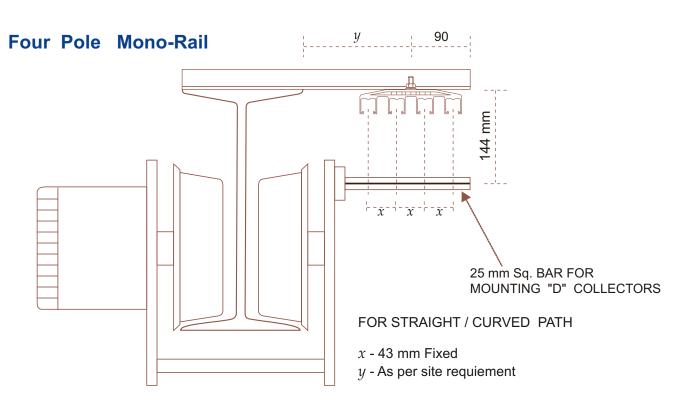
ALL ILLUSTRATIONS WITH "D" TYPE COLLECTOR



TYPE OF INSTALLATIONS

HORIZONTAL MOUNTING



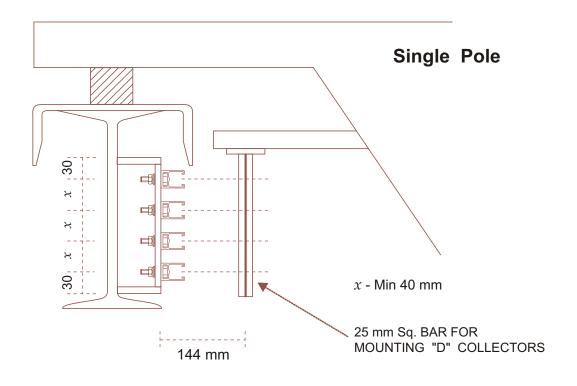


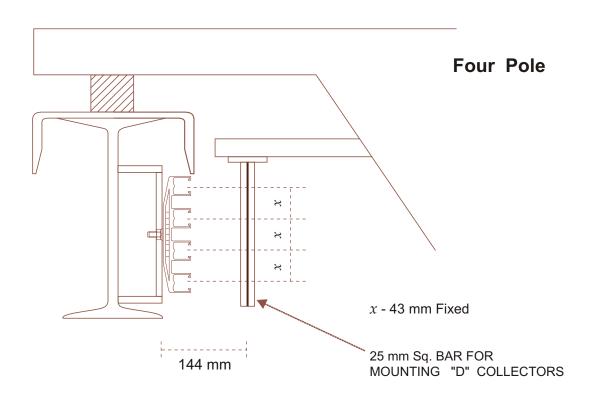
ALL ILLUSTRATIONS WITH "D" TYPE COLLECTOR



TYPE OF INSTALLATIONS

VERTICAL MOUNTING

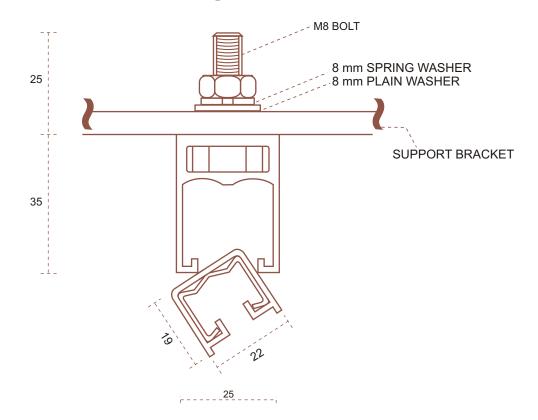




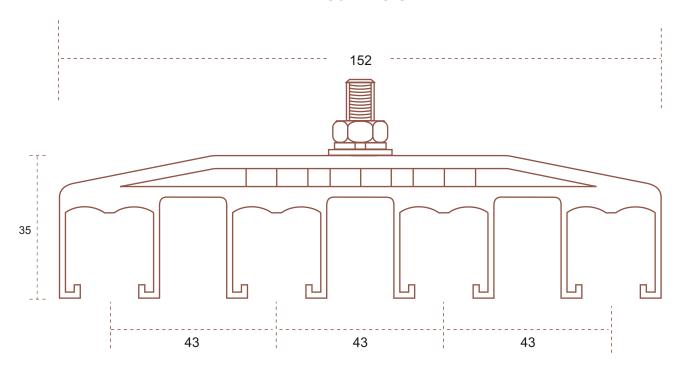


FITTING CONDUCTOR INTO HANGER CLAMPS

Single Pole

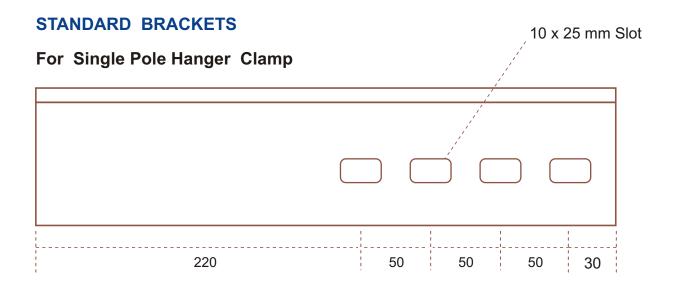


Four Pole





HANGER CLAMP SUPPORT



FIX SUPPORT BRAKCETS AT THE CORRECT PITCH.

USE PLUMB LINE AND ENSURE ALIGNMENT - 9 mm DIA HOLE REQUIRED FOR HANGER CLAMP MOUNTING. 10 X 18 MM SLOT IS RECOMMENDED FOR EASE OF ALIGNMENT.

FIT HANGER CLAMP FIRST. CHECK - HANGER CLAMPS OF DIFFERENT PHASES ARE PARALLEL TO EACH OTHER AND ALSO PARALLEL TO RAILS.

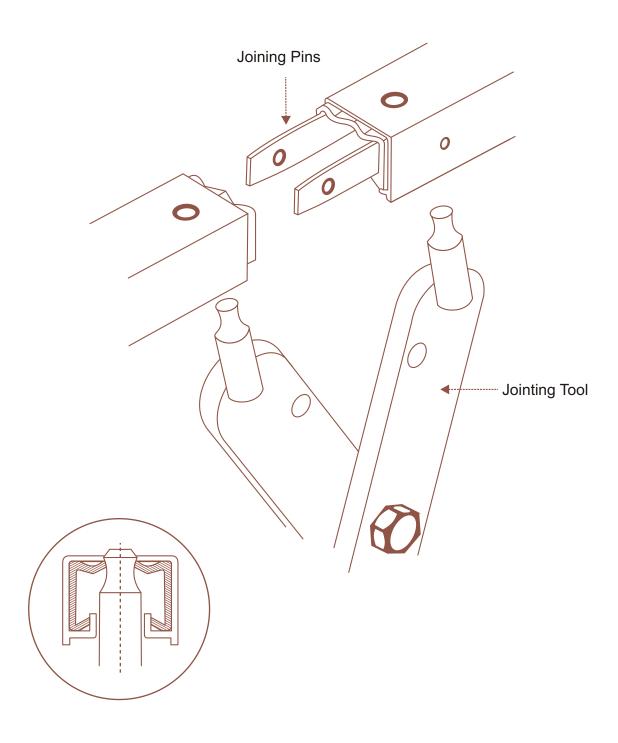
USE PLUMB LINE FOR CHECKING AND ALIGNING BEFORE FINAL TIGHTENING.

THEN INSERT CONDUCTOR AS PER SKETCH ON PAGE 7.

SafePower CAN SUPPLY CUSTOM MADE SUPPORT BRACKETS.



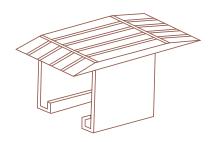
JOINING CONDUCTOR LENGTHS



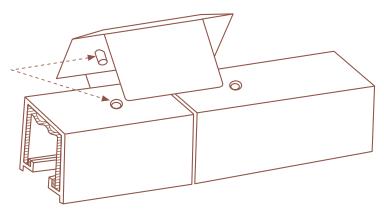
ENSURE JOINTING TOOL ENGAGES IN JOINT HOLE PROPERLY AS SHOWN

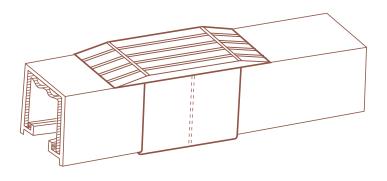


JOINT COVER FITTING



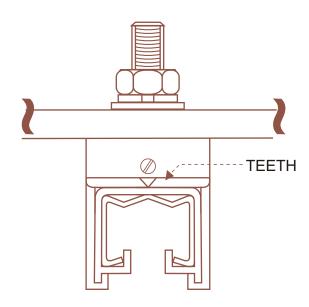








ANCHOR CLAMP ASSEMBLY



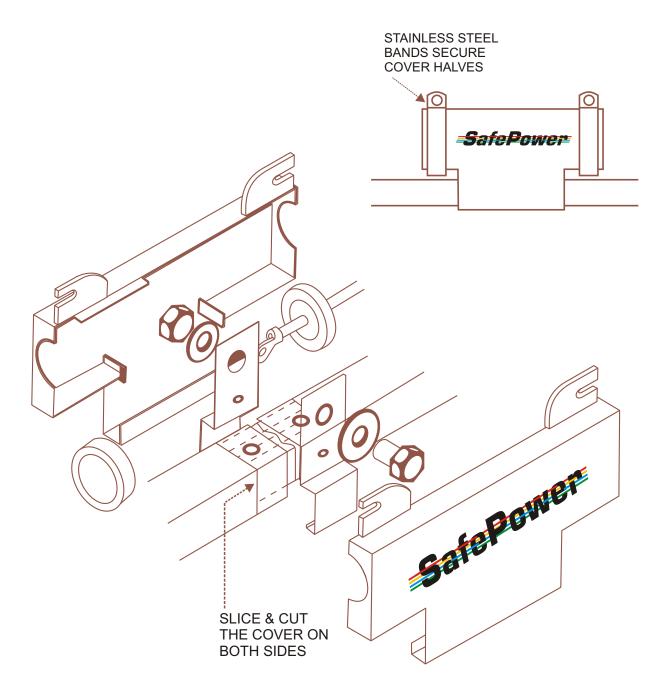
AFTER FITTING CONDUCTOR TIGHTEN THE NUT TO FORCE THE TEETH OF THE CLAMP INTO THE INSULATION.

ONLY ONE SET FOR INSTALLATION.

EXPANSION ASSEMBLY - ONE ON EITHER SIDE.



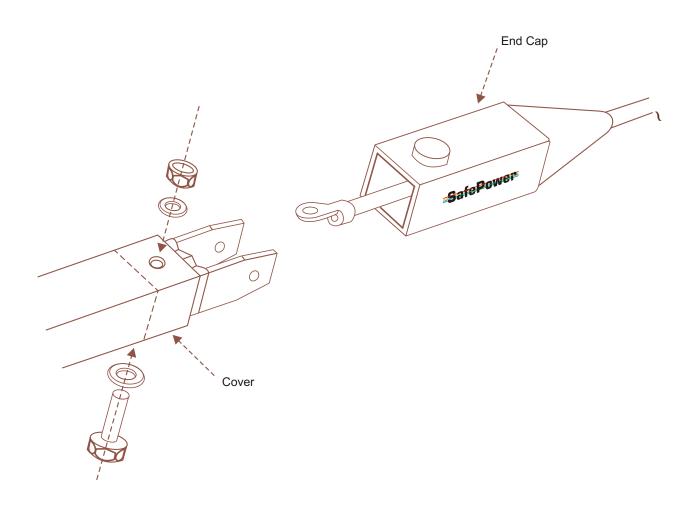
CENTER POWER FEED ASSEMBLY



30 mm CUT REQURIED IN COVER FOR PLACING JUMPERS FOR TERMINATION.



END CAP AND END POWER FEED ASSEMBLY

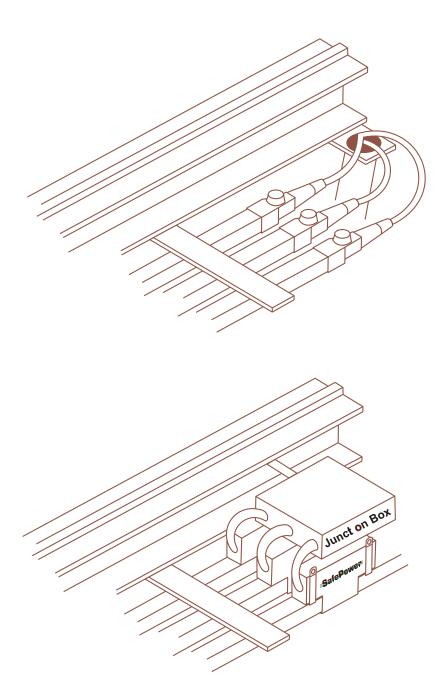


FOR END POWER FEED SLICE & CUT THE COVER.

SAME CAP FOR BOTH ENDS. SLIT END FOR WIRE ENTRY.



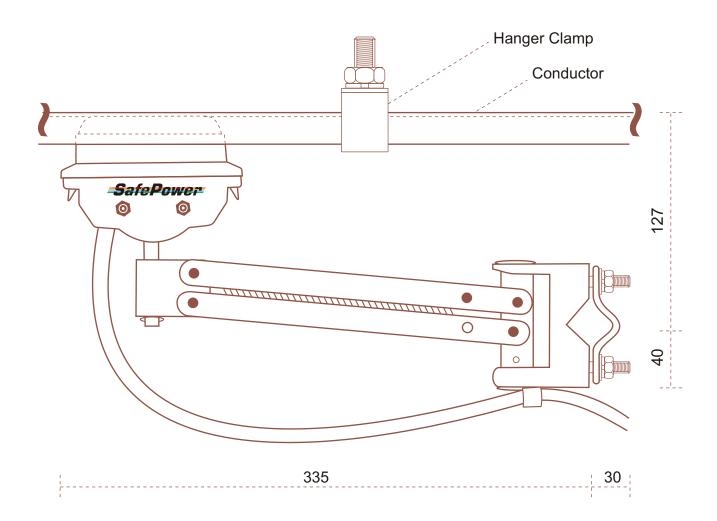
TYPICAL POWER CABLE CONNECTION



ALWAYS ALLOW SUFFICIENT SLACK CABLE FOR EXPANSION AND CONTRACTION OF CONDUCTORS.



MOUNTING DETAILS FOR 60Amp To 125 Amp



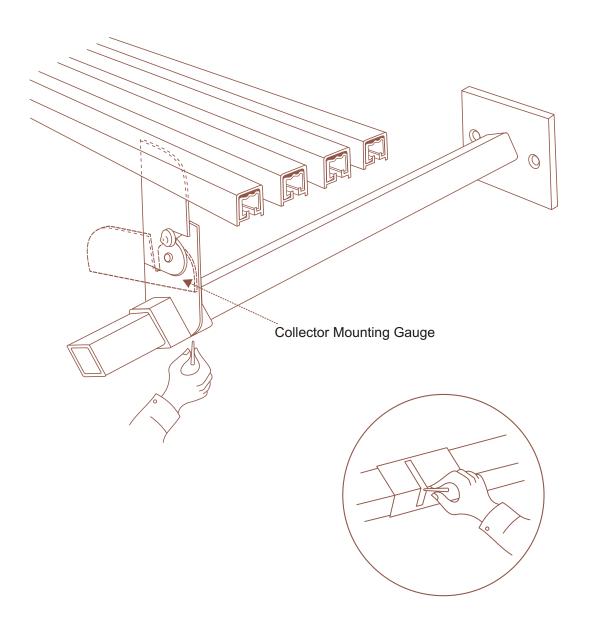
COLLECTORS MUST BE MOUNTED ON 19 mm SQUARE BAR.

FOR THE CORRECT SETTING HEIGHT, USE COLLECTOR MOUNTING GAUGE. REF PAGE 20.

IT IS IMPORTANT TO MAINTAIN CORRECT VERTICAL AND LATERAL ALIGNMENT WITH THE CONDUCTOR.



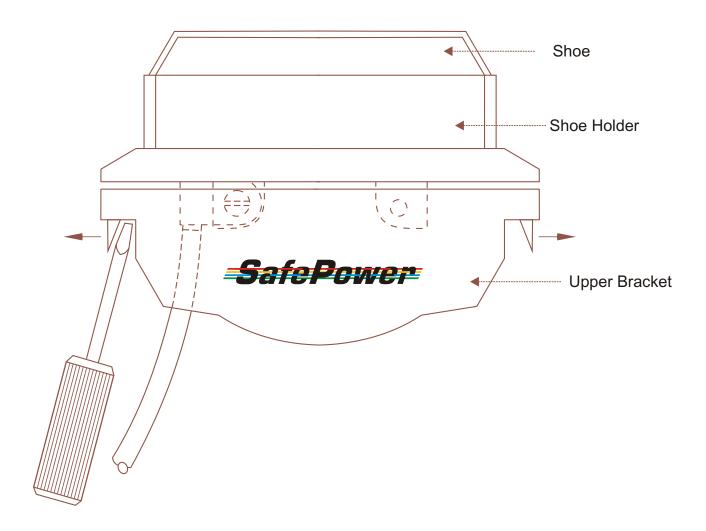
INSTALLING OF CURRENT COLLECTOR



- 2) MARK LOCATION OF EACH PHASE AND MOUNT COLLETORS ON POSITION.
- 1) ADJUST THE HEIGHT OF THE SQUARE BAR.



REPLACMENT OF COLLECTOR CONTACT SHOE AND SHOE HOLDER



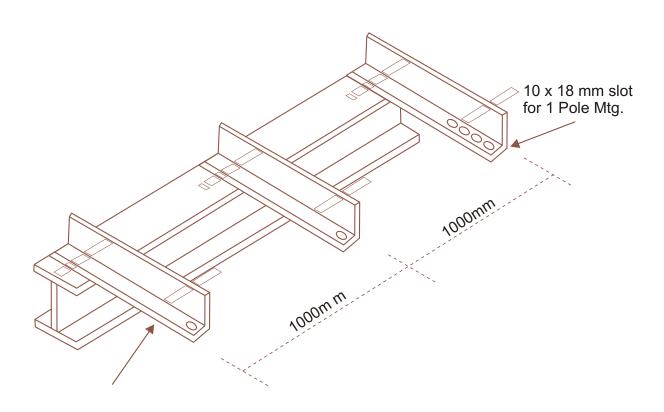
NOTE:

COLLECTOR CONTACT SHOE AND SHOE HOLDER ARE SUPPLIED AS REPLACEMENT PART.

- 1. LEVER LUGS IN DIRECTION SHOWN.
- 2. LIFT SHOE AND HOLDER.
- 3. DISCONNECT CABLE.
- 4. REVERSE PROCEDURE TO FIT NEW SHOE.



SUPPORT BRACKET INSTALLATION



for 4 Pole Mtg.

1. LOCATE AND SECURE SUPPORT BRACKETS AT THE RECOMMENDED SPACING.

(NOTE: LOCATE SUPPORT BRACKET AT A SPACING THAT IS DIVISIBLE INTO THE CONDUCTOR BAR LENGTHS. THIS WILL ALWAYS ENSURE THAT THE JOINT POSITIONS DO NOT INTERFERE WITH THE SUPPORT BRACKETS).

2. ENSURE OF ALL BRACKETS ARE ALIGNED IN HORIZONTAL AND VERTICAL PLANE.

HANGER SUPPORT BRACKETS COME COMPLETE WITH ALL NECESSARY MOUNTING HOLES.



SYSTEM MAINTENANCE

- 1. CONTACT SHOES SHOULD BE CHECKED FOR WEAR ON A MONTHLY BASIS UNTIL A WEAR PATTERN CAN BE ESTABLISHED. FAILURE TO REPLACE WORN OUT CONTACT SHOES WILL RESULT IN DAMAGE TO THE CONDUCTOR, AND REDUCE SUBSEQUENT CONTACT SHOE LIFE.
- 2. WHEN CHECKING FOR CONTACT SHOE WEAR, ALSO CHECK THAT ALL COLLECTOR PIVOT POINTS ARE FREE, AND GENERALLY CHECK ALIGNMENT OF THE COLLECTOR TO THE CONDUCTORS.
- 3. CHECK CONDUCTOR SYSTEM FOR ANY MECHANICAL DAMAGE AND CLEAN THE SYSTEM ESPECIALLY FOR CONDUCTIVE DUST.



| Our Product Range | | | |
|-------------------------------------|-----------------------|--|--|
| GI Conductor Bar (Pin Joint) | 60 amps to 125 Amps. | | |
| GI Conductor Bar (Bolted Joint) | 80 amps to 125 Amps. | | |
| Copper Conductor Bar (Pin Joint) | 160 amps to 315 Amps. | | |
| Copper Conductor Bar (Bolted Joint) | 160 amps to 400 Amps. | | |
| Aluminium With SS Conductor Bar | 200 to 315 Amps. | | |

Application

Eot Cranes
Electric Hoists,
Straigh / Curved
Monorails,
Electric Trollies
Amusement Drive
Material Handling
Applications





email: info@dslbusbar.com / dslbusbar@gmail.com web.: www.dslbusbar.com / www.festoonsystem.co.in