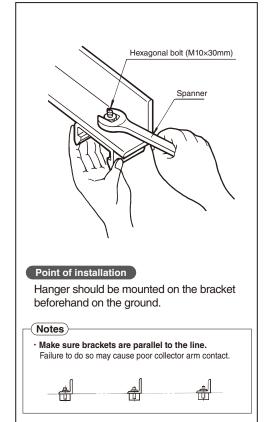
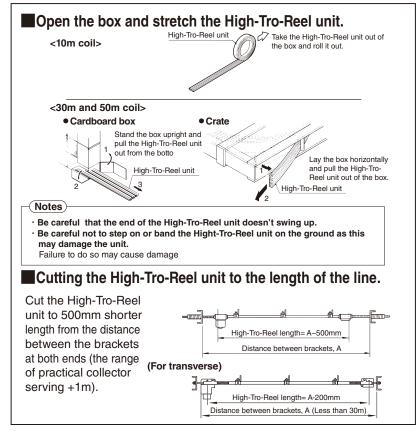


# Mounting hangers on the bracket

# 2 Stretching and cutting the High-Tro-Reel unit





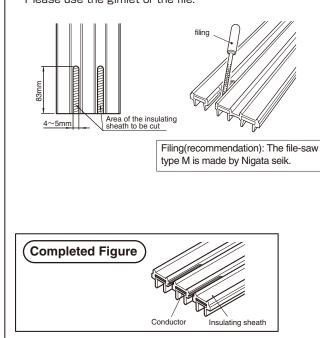
# Cutting the High-Tro-Reel unit

#### Notes

· If the High-Tro-Reel unit is curled, be sure to straighten it before cutting. · Any unnecessary protrusions on the conductor should be cut off.

### Processing for the End tension insulator

1. Cut a sheath according to the size that exists in figure. · Please use the gimlet or the file.



# Processing for the center feed-in joiner

- 1. Make the dimension shown in Figure <A> on the High-Tro-Reel unit, and cut the top, side and bottom of the insulating sheath using a hacksaw. On the top surface, make a thin cut line down to the conductor steel plate. (For 90 A, 150 A, 200 A cut only the insulating sheath)
- 2. Cut the insulating sheath using a  $\Phi 4 \sim 5$  mm drill bit, as shown on Figure <B>.Slightly exaggerating the cut to the side (Working  $(1 \Leftrightarrow 2)$ ), as shown in Figure <C>.makes the insulating sheath easier to remove.

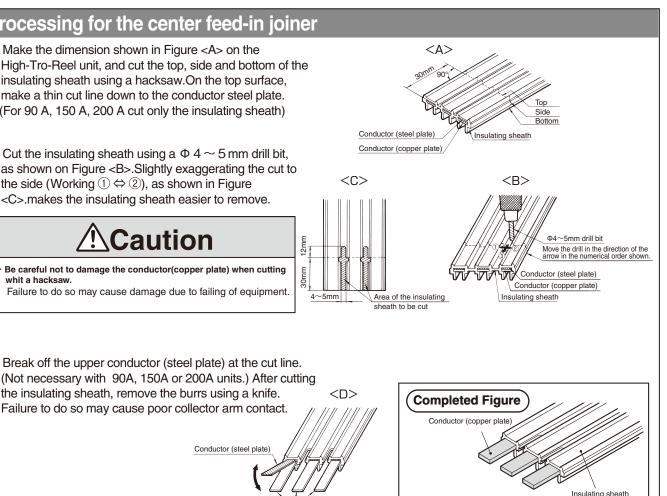
Caution

· Be careful not to damage the conductor(copper plate) when cutting whit a hacksaw Failure to do so may cause damage due to failing of equipment.

3. Break off the upper conductor (steel plate) at the cut line.

the insulating sheath, remove the burrs using a knife.

Failure to do so may cause poor collector arm contact.



Cut a narrow insulating sheath, or shorter, can not be inserted into the

HighTro-Reel unit can not be secured, it may fall fire.

Narrov

Cut powde

· After an insulation sheath cut, please confirm that

sheath doesn't stick to the conductor surface (a copper sheet). might be the fire by the poor contact.

insulator.

4~5mm

27

Conductor (copper plate)

the cut powder of the insulation

Conductor (steel plate

# Mounting an end tension insulator on the High-Tro-Reel

#### According to the following,

#### Feeding from horizontal

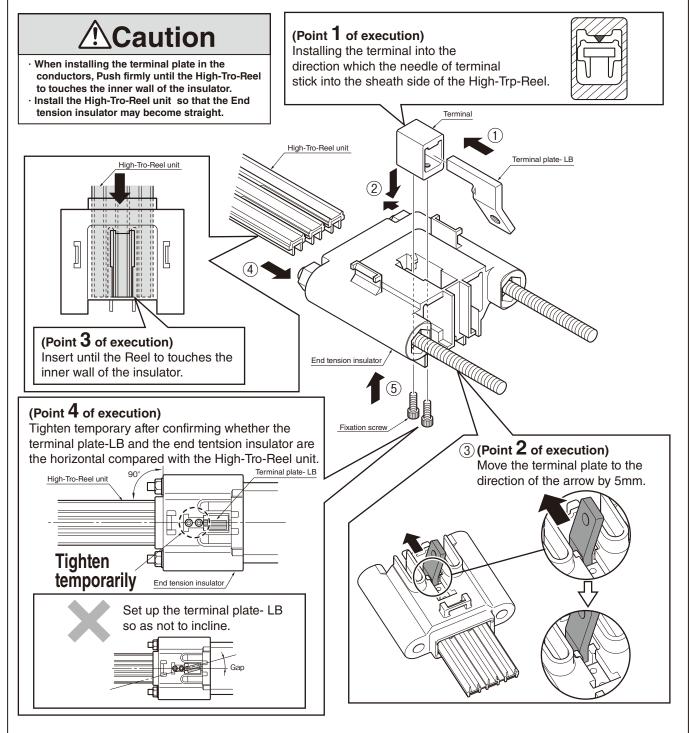
Set the terminal and the terminal plate , the insulation sheet to the End tension insulator from the top and sides.

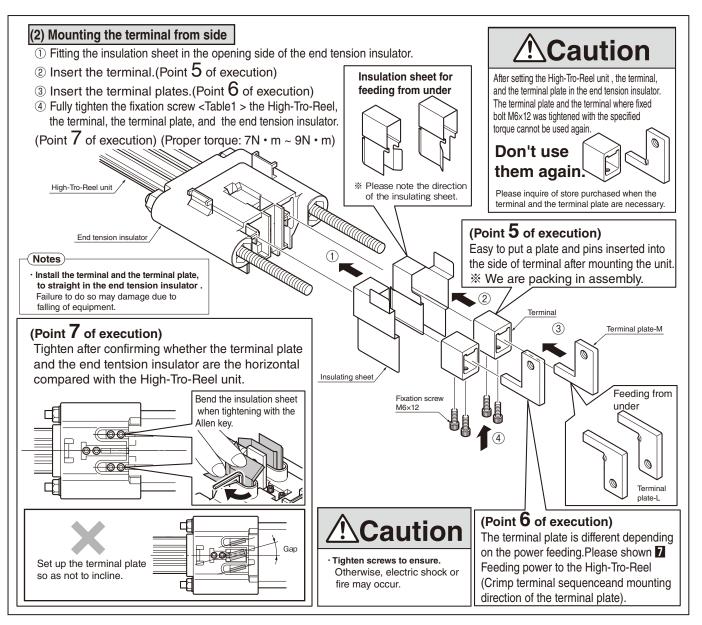
When mounting the terminal plates, Please see 77 Feeding power to

the High-Tro-Reel(Crimp terminal sequence and mounting direction of the terminal plate).

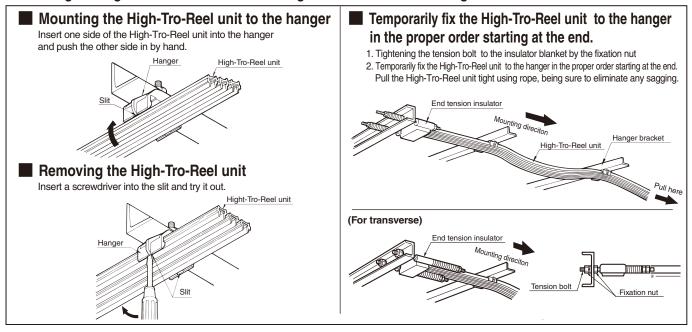
#### (1) Mounting the terminal from the upper

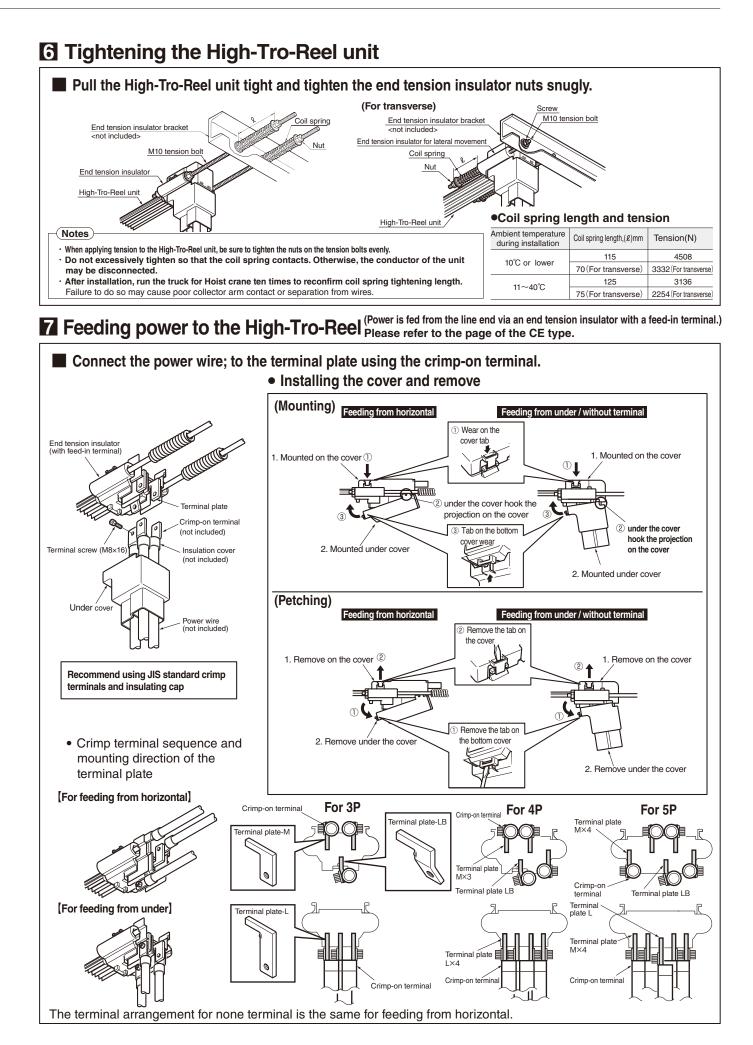
- ① Set the central terminal and the terminal plate-LB.(Point 1 of execution)
- 2 1 Fit the insulator terminal tightening, 2mm shifted to the side the High-Tro-Reel unit
- 3 To arrange like terminal plate -LB (Point 2 of execution), and tighten temporarily the fixation screw to facilitate the insertion of the High-Tro-Reel unit.
- (4) Move the terminal plate to the direction of the arrow by 5mm.(Point 3 of execution)
- (5) Tighten terminal plate-LB by the fixation screw temporarily.(Point 4 of execution)





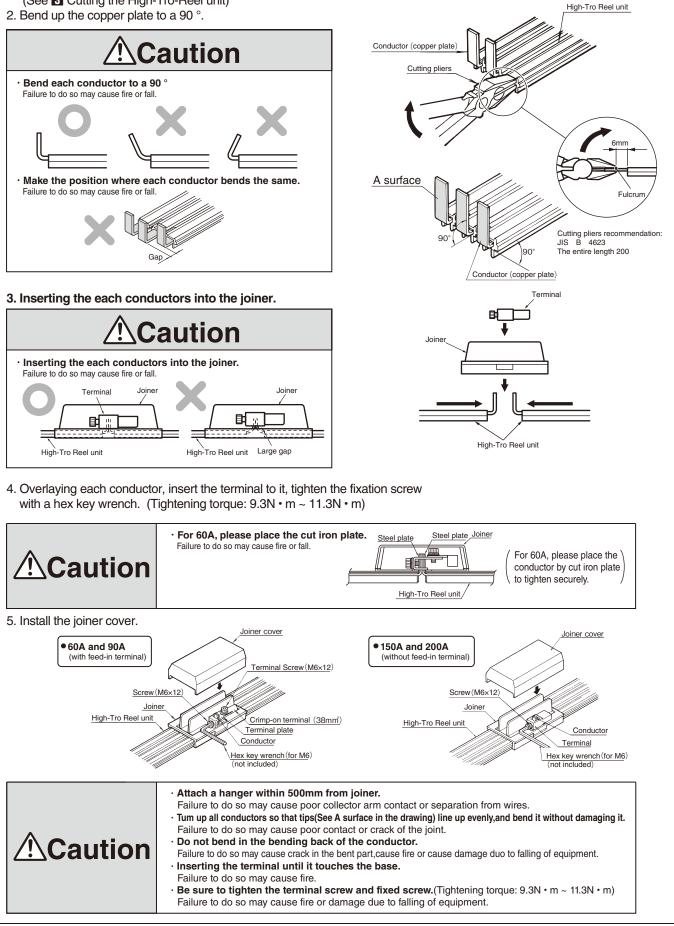
## **5** Lifting the High-Tro-Reel unit and securing it to the brackets starting on the end tension insulator side.

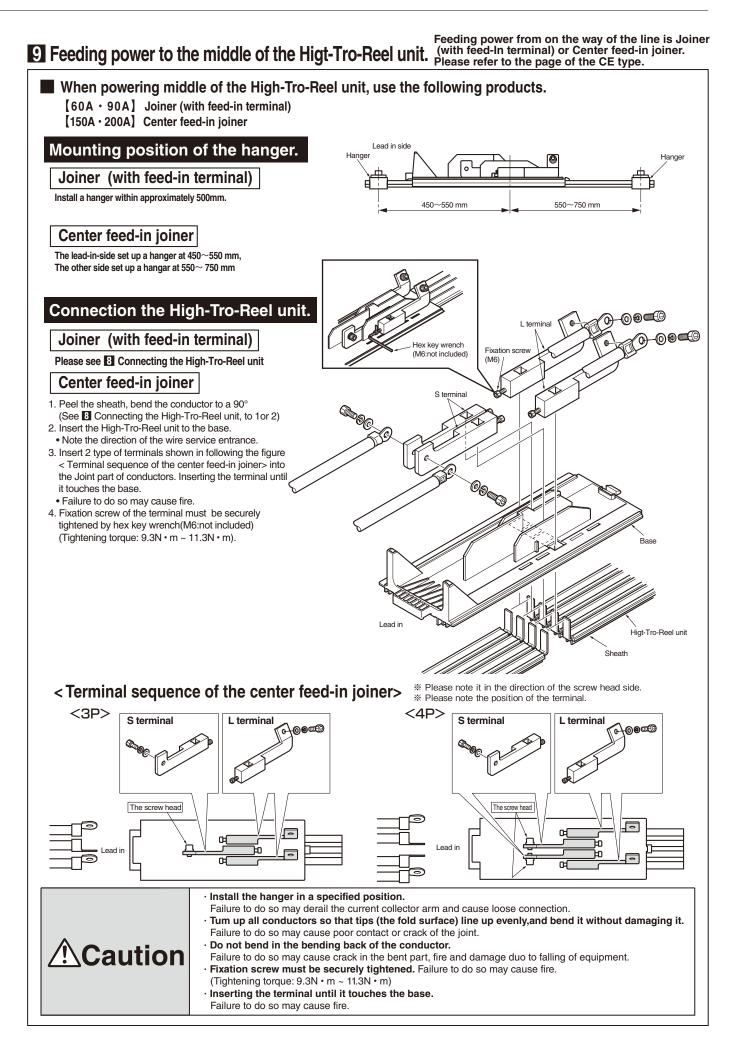


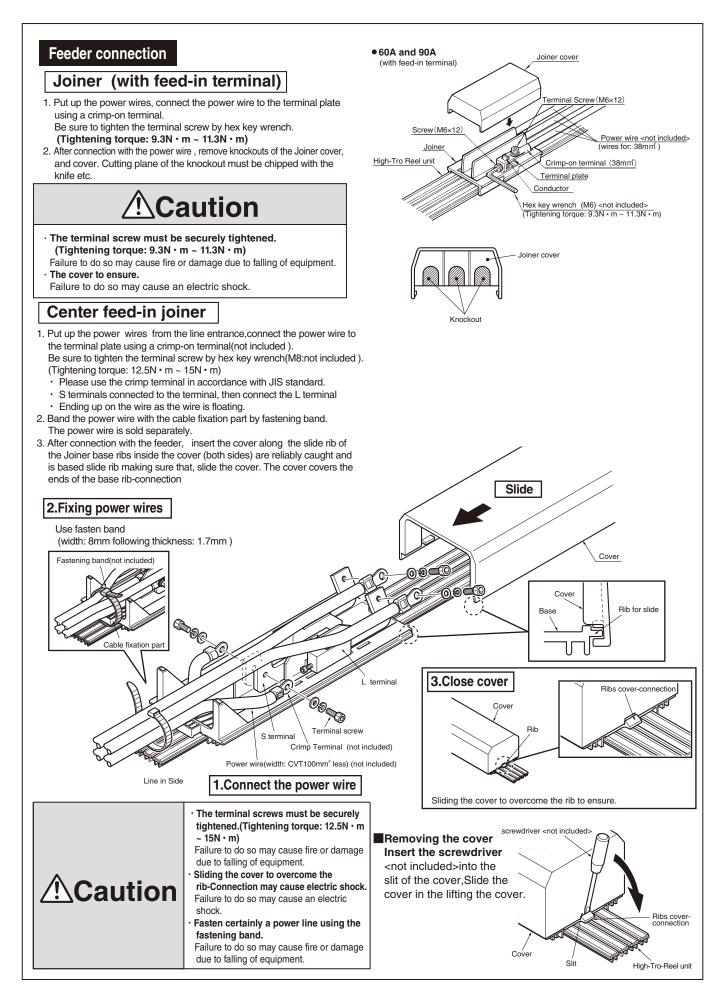


# 8 Connecting the High-Tro-Reel units (Use a joiner to connect units.)

- 1. Cut 30mm of the insulating sheath and the copper plate. (See **3** Cutting the High-Tro-Reel unit)



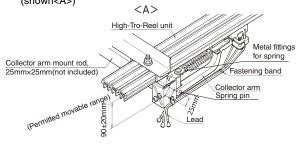




# O Collector arm installation Please refer to the page of the CE type.

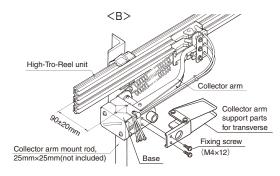
### Standard installation

Set the distance between the High-Tro-Reel conductor sliding surface and collector arm mount rod to 90mm (Central value of the collector arm permitted movable range 90±20mm). (Set the distance to 90mm at the hanger bracket section.) (shown<A>)



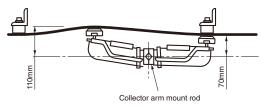
### Horizontal installation with its opening facing

As shown in a figure,mounted collector arm support parts for transverse on base of the collector arm.Tightening torque of fixing screws : 0.98 N  $\cdot$  m $\sim$ 1.32 N  $\cdot$  m Set the distance between the High-Tro-Reel conductor sliding surface and collector arm mount rod to 90mm (Central value of the collector arm permitted movable range 90±20mm).(shown<B>)



#### Use range of movable

When collector arm mount rod set up a reference position, the operating range from 70mm  $\sim$  110mm of collector arm set up to be twisting. Adjust the arm mount rod between the High-Tro-Reel unit to become 110mm or less and 70mm or more at the center between hangers, and 70mm or more at the bracket.



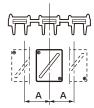
Assembly in tandem configuration

Two collector arms (tandem type) should be used together in lines with

imperative that collector arms not be separated from wires. (shown<C>)

a circuit of 100A or higher, and especially in applications in which it is

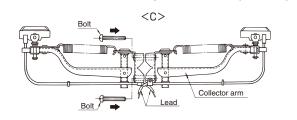
Distance to the center of the collector arm from the center of the duct



Dimension A of permitted movable range Distance to the center of the collector arm from the center of the duct

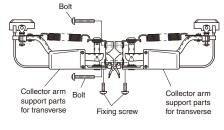
Not use the horizontal support parts	15mm
Use the horizontal support parts	5mm

#### Horizontal installation with its opening facing into tandem-type



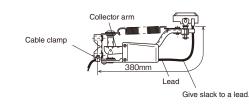
- During operation of equipment, use the collector arm within permitted movable range 90±20mm.
- Be sure that collector arms are permitted movable range to the High-Tro-Reel unit with no twisting.
- Be sure to confirm the High-Tro-Reel unit phase (R.S.T) before connecting the leads to the load.
- $\cdot$  In case of horizontal installation, be sure to use the Collector arm support parts(for transverse) with its opening facing side.
- Otherwise, poor collector arm contact or separation from wires may occur. • Mount the length from the center of the duct to the center of the collector arm within A size.

Mounting the horizontal support parts in both the collector arms



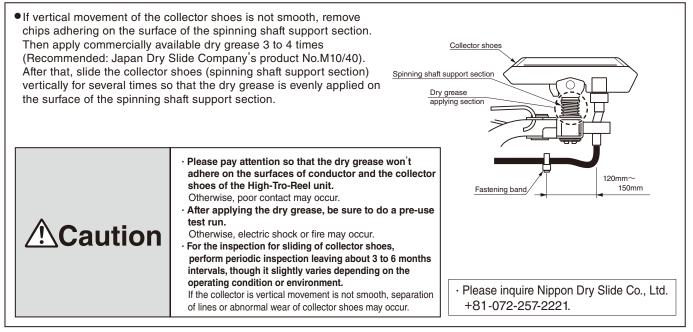
### Wire clamp

Give slack to a lead.(Lead is a fixed position, 380mm from the base of collector) Do not affect a collector's run.



#### Mounting a conductor cleaner 1. Mount the supporting parts of collector arm on saddle 2. Set the distance from the upper surface of the Conductor High-Tro-Reel conductor to the center of collector cleane (DH56851) cleaner mount rod to 65mm (Central value of the ollector cleaner permitted movable range 65±10 mm) TAT Saddle 3. Mount the center of collector cleaner to less than 3mm High-Tro-Reel unit from center of the High-Tro-Reel conductor. Collector arm support parts Ш Less than 3mm Less than 3mm permitted movable Screw(M5) range of collector arm (Notes) Conductor cleaner mount rod, 12×12 (not included) · Be sure that the conductor cleaner is mounted parallel to the High-Tro-Reel unit with no twisting

# Inspection of spinning shaft support parts



### Collector shoe replacement Please refer to the page of the CE type.

