



TEREX | COMEDIL

CTT CITY

Slewing Upper Part

Electrical

Equipment Location

- 1** **ELECTRICAL EQUIPMENT LOCATION - SLEWING UNIT**
 - 1.1 GENERAL INFORMATION
 - 1.2 SYSTEM OPERATION WITH FIRST JIB SECTION NOT IN PLACE
 - 1.3 CONTROL CAB ELECTRICAL CONNECTION
- 2** **ELECTRICAL EQUIPMENT LOCATION FIRST JIB SECTION**
 - 2.1 GENERAL INFORMATION
 - 2.2 SLEWING UNIT TO FIRST JIB SECTION ELECTRICAL CONNECTION
 - 2.2.1 Connecting "QES" (first jib section) to "QEG" (slewing unit)
 - 2.2.2 Connecting "QEG" (slewing unit) to "QES" (first jib section)

Chapter 5



1 ELECTRICAL EQUIPMENT LOCATION - SLEWING UNIT

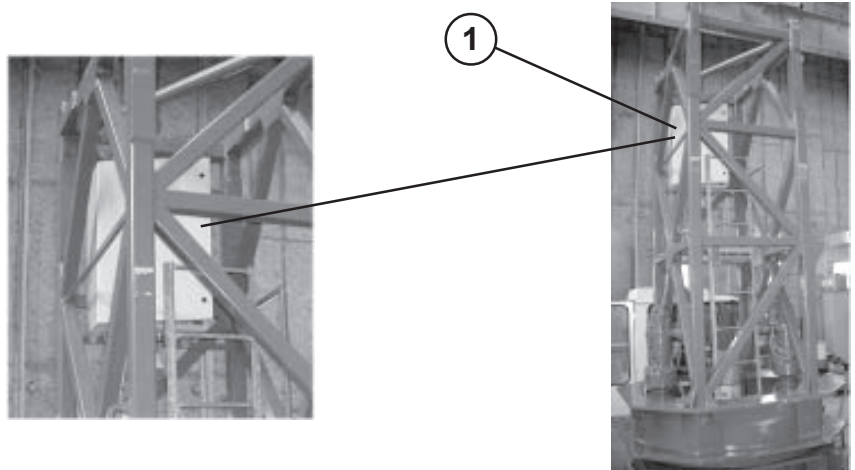
1.1 GENERAL INFORMATION

An electrical box "QEG" (1) (picture 1.1.1) is located inside the slewing unit for the crane start/stop and for the slewing and trolley traversing motions control.

The cable routing of the slewing unit is made at Comedil's workshop.



When positioning the slewing unit on the top "TS" mast section you don't need, then, to make any electrical connection, except for that called for in **Chapter 4C - "Tower - Electrical equipment location", para. 2.1.**



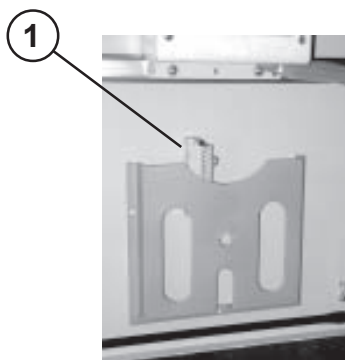
Picture 1.1.1

1.2 SYSTEM OPERATION WITH FIRST JIB SECTION NOT IN PLACE

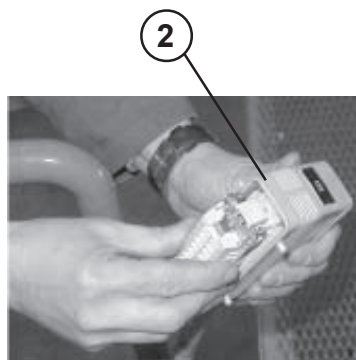
The electrical system configuration enables slewing of the rotating upper part of the crane with the first jib section still on the ground, thus making either tightening of the bolts on the slewing ring support and the overhead assembly of jib and counterjib easier.

Operating procedure:

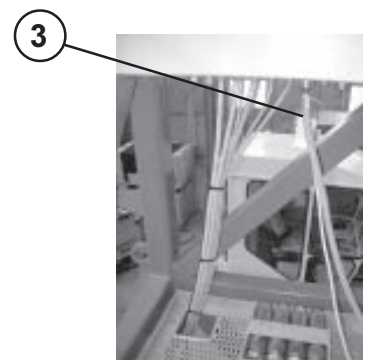
- a) Take plug (1) from the paper holder (picture 1.2.1) inside electrical box "QEG" (1) (picture 1.1.1);
- b) Connect plug (1) to socket XS1 (2) (picture 1.2.2) of cable (3) (picture 1.2.3), which is marked W131 and forms part of "QEG" electrical box equipment.



Picture 1.2.1



Picture 1.2.2



Picture 1.2.3



On completing the above mentioned operations, energize the system moving the lever of the main switch on "QEL" electrical box at the bottom of the crane tower to **"ON-I"** position (**Chapter 1 "General Information", para. 3.1 "Placing the crane in service"**) and operate the crane start by the proper controls.



Make sure that all the operations called for in **Chapter 4C "Tower - Electrical equipment location"** have been carried out in the correct way and that the door of "QEG" electrical box is closed.

1.3 CONTROL CAB ELECTRICAL CONNECTION

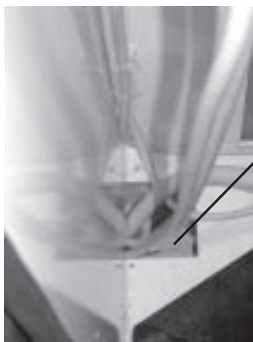


Arrange for the control cab connection with the slewing unit on the ground.

The cables connecting the control cab to "QEG" electrical box, are placed inside it, due to transport reasons.

Operating procedure:

- a) Reeve the cables through special hole (1) on the cab floor (picture 1.3.1);



Picture 1.3.1

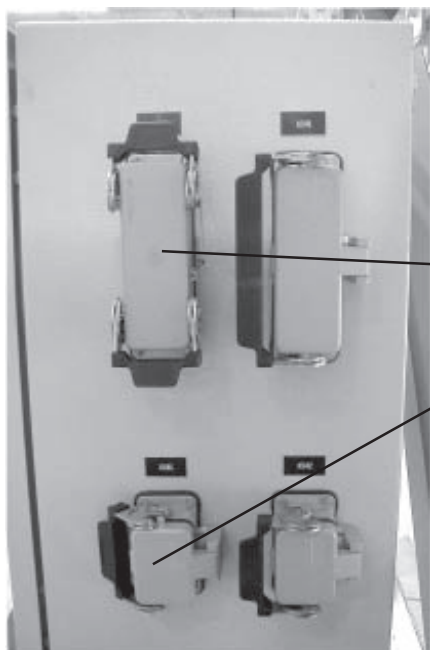


- b) Connect plug XP81 (4) (picture 1.3.4) to socket XS81 (1) (picture 1.3.3);

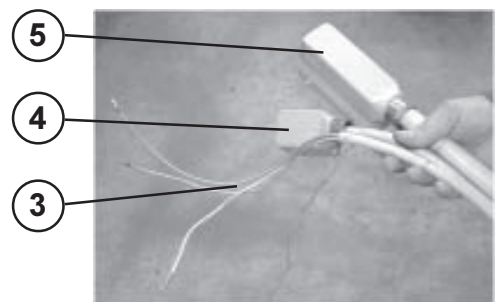
- c) Connect the cable marked W842 to fuse carrier (6) through cable gland (7) and connect the yellow-green conductor to ground plate (8) (picture 1.3.5);



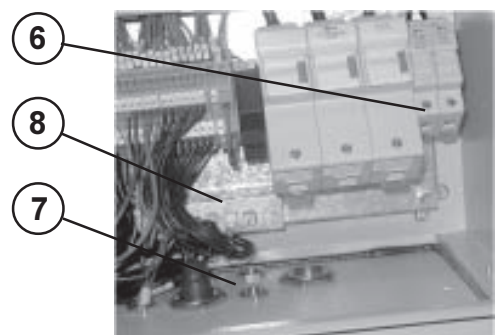
- d) Connect plug XP0 (5) (picture 1.3.4) to socket XS0 (2) (picture 1.3.3), thus activating the optional fixed control station in the cab (see **Chapter 6A "Standard and optional controls"**).



Picture 1.3.3



Picture 1.3.4



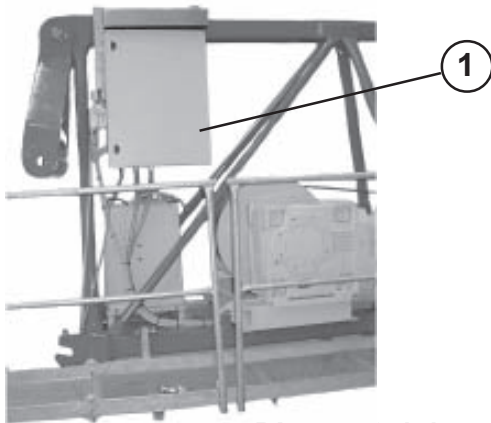
Picture 1.3.5

2

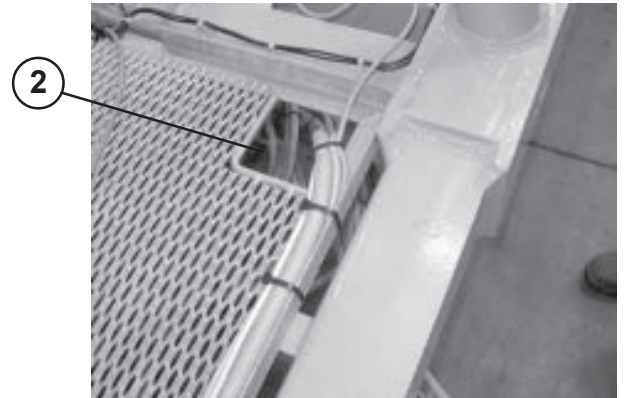
ELECTRICAL EQUIPMENT LOCATION - FIRST JIB SECTION**2.1 GENERAL INFORMATION**

An electrical box “QES” (1) (picture 2.1.1) is located on the first jib section for the hoisting control. The cable routing of the first jib section is made at Comedil’s workshop.

On completing the connection of the first jib section to the slewing unit, reeve the cables coming from “QES” electrical box and from the trolley unit through hole (2) (picture 2.1.2).



Picture 2.1.1

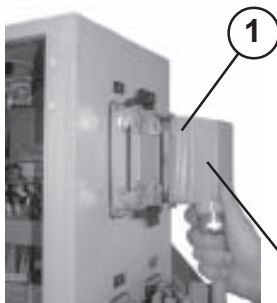


Picture 2.1.2

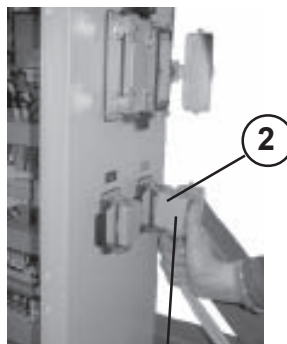
2.2 SLEWING UNIT TO FIRST JIB SECTION ELECTRICAL CONNECTION**2.2.1 Connecting “QES” (first jib section) to “QEG” (slewing unit)**

Operating procedure:

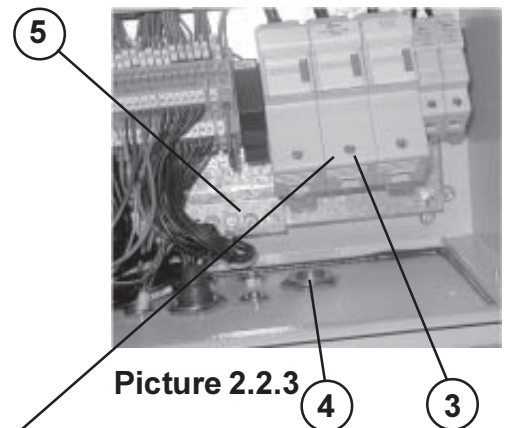
- a) Connect plug XP41 (1) to socket XS41 (picture 2.2.1);
- b) Connect plug XP42 (2) to socket XS42 (picture 2.2.2);
- c) Connect the cable marked W140 to fuse carrier (3) through cable gland (4) and connect the yellow-green conductor to ground plate (5) (picture 2.2.3);



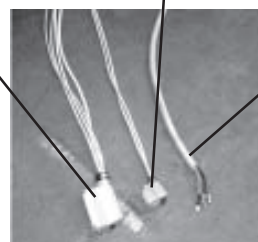
Picture 2.2.1



Picture 2.2.2



Picture 2.2.3

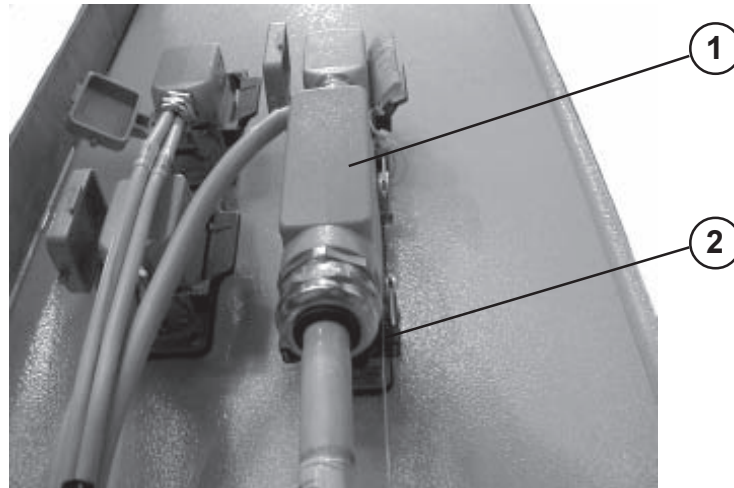




2.2.2 Connecting “QEG” (slewing unit) to “QES” (first jib section)

Operating procedure:

- a) Removed plug (1) from socket XS1 (2) (picture 1.2.2) of cable (3) (picture 1.2.3), marked W131 and already connected to “QEG” electrical box (para. 1.2), reeve it through hole (1) (picture 2.1.2) and follow the route of the other cables (but in the opposite direction) to electrical box “QES” (1) (picture 2.1.1);
- b) Connect socket XS1 (1) to plug XP1 (2) (picture 2.2.4).



Picture 2.2.4

IMPORTANT ADVICE



On completing the connection, check the rotation of the hoist winch cooling fan for proper direction (air flow towards the motor).