

DISCLAIMER: Emtion Pty Ltd, Trading as Microtec Engineering, do not take any responsibility for any damage caused installing this product

## **MICROTEC ENGINEERING**

### **EXTERNAL WARNING LIGHT INSTALLATION INSTRUCTIONS**

#### **GROVE EKS 83**

**ESTIMATED TIME OF INSTALLATION: 4 HOURS**

#### **Required Parts:**

- 1x Activation box
- 5mtrs 7 core cable
- Solder
- Heatshrink
- 1x External warning light
  - 15 x Ferrules
  - Cable Ties
- 2 x self drilling screws
- 4x wire tap connectors
  - 4 x Relay pins
  - 4 x circular pins

# **GROVE EKS 83 LIGHT INSTALLATION**

***Read all instructions before commencing***

## **PRE-INSTALLATION CHECKS**

1. Set up machine on full outriggers and raise the boom so there are no errors or buzzers active. Set-up computer with appropriate working code.
2. Raise any hook to an ATB alarm situation. Check that the crane motions winch up, luff down, and tele out functions are cut off. Check that the “safe” crane motions winch down, tele in and luff up are operable.
3. Whilst still in alarm condition, switch the ATB over-ride and verify that the unsafe functions are now operable.
  - *note: be careful not to overwind hook*
4. Repeat steps 2-3 with the other hook.
5. Register a code into the computer that puts it in alarm condition (100%). If this is not possible, you may need to lift a load to bring the crane to 100%. Check that all unsafe motions (Luff down, winch up, Tele out) are inoperable and safe functions (luff up, winch down, tele in) are operable.
6. Then switch the overload over-ride switch. Test that all unsafe functions are operational with PTO II switch on.
  - *Beware: Autostop functions will not operate during over-ride.*
  - Should any of these tests fail call Microtec for service

## **INSTALLATION OF INPUTS**

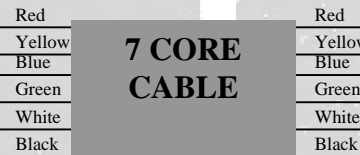
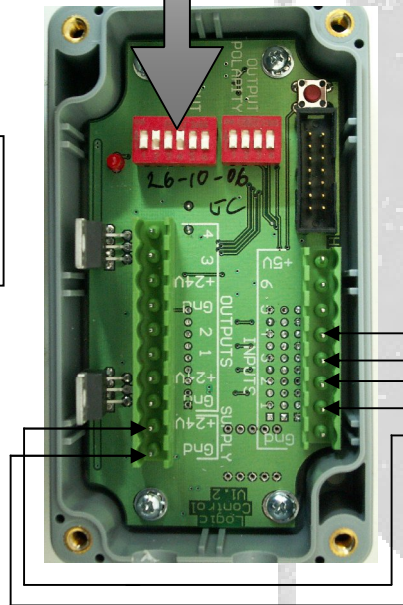
### **PREINSTALLATION PREPARATION**

1. Isolate batteries during installation with isolator switch.
2. Install activation box in a suitable position. Preferably where you can reach from the upper cabin seat to activate the switches?
3. Remove any panels there are to gain access to the EKS 83 central unit

# CONNECTIONS GROVE EKS 83

SWITCH NO.	SWITCH POSITION
1	?
2	?
3	?
4	?
5	?
6	?

Use ferrules to terminate the end of the wire and insert into connector



❖ Unused wires from 7 core cable may be cut off from the loom.

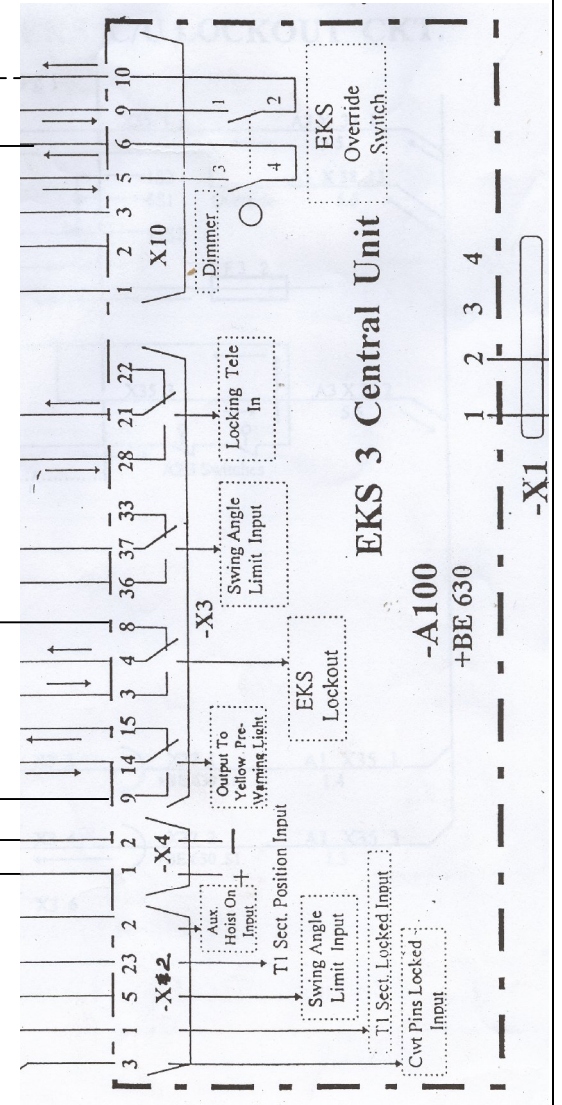
Possible connection

SEE NOTE 3

SEE NOTE 2

SEE NOTE 1

SEE NOTE 4



## NOTES

1

- Connect the red wire from the loom to –X3 pin 8 of the EKS Central Unit
- *Use wire tap connectors, solder/heatshrink or pins provided to make the connection*

2

- Connect the yellow wire from the loom to –X3 pin 9 of the EKS Central Unit
- *Use wire tap connectors, solder/heatshrink or pins provided to make the connection*

3

- Connect the blue wire from the loom to –X10 pin 6 of the EKS Central Unit
- *Use wire tap connectors, solder/heatshrink or pins provided to make the connection*

4

- Connect the white wire from the loom to –X4 pin 1 of the EKS Central Unit
- Connect the black wire from the loom to –X4 pin 2 of the EKS Central Unit

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