

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 EKS5

ESTIMATED TIME OF INSTALLATION: 4 HOURS

M I C R O T E C

GROVE EKS5 INSTRUCTIONS

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 for a safe working load.
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, turn the ATB over-ride key 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. Turn machine off and on again, therefore restarting the computer. Before setting up computer, check to see that the moment LED bar is lit up to 100%. Also check that the 90% and the 100% LED is lit up.
6. 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.
7. Turn the over-ride key and verify crane motions winch up, luff down and tele out are operational.
 - *Beware: Autostop functions will not operate during over-ride.*
 - Should any of these tests fail call Microtec for service

INSTALLATION OF INPUTS

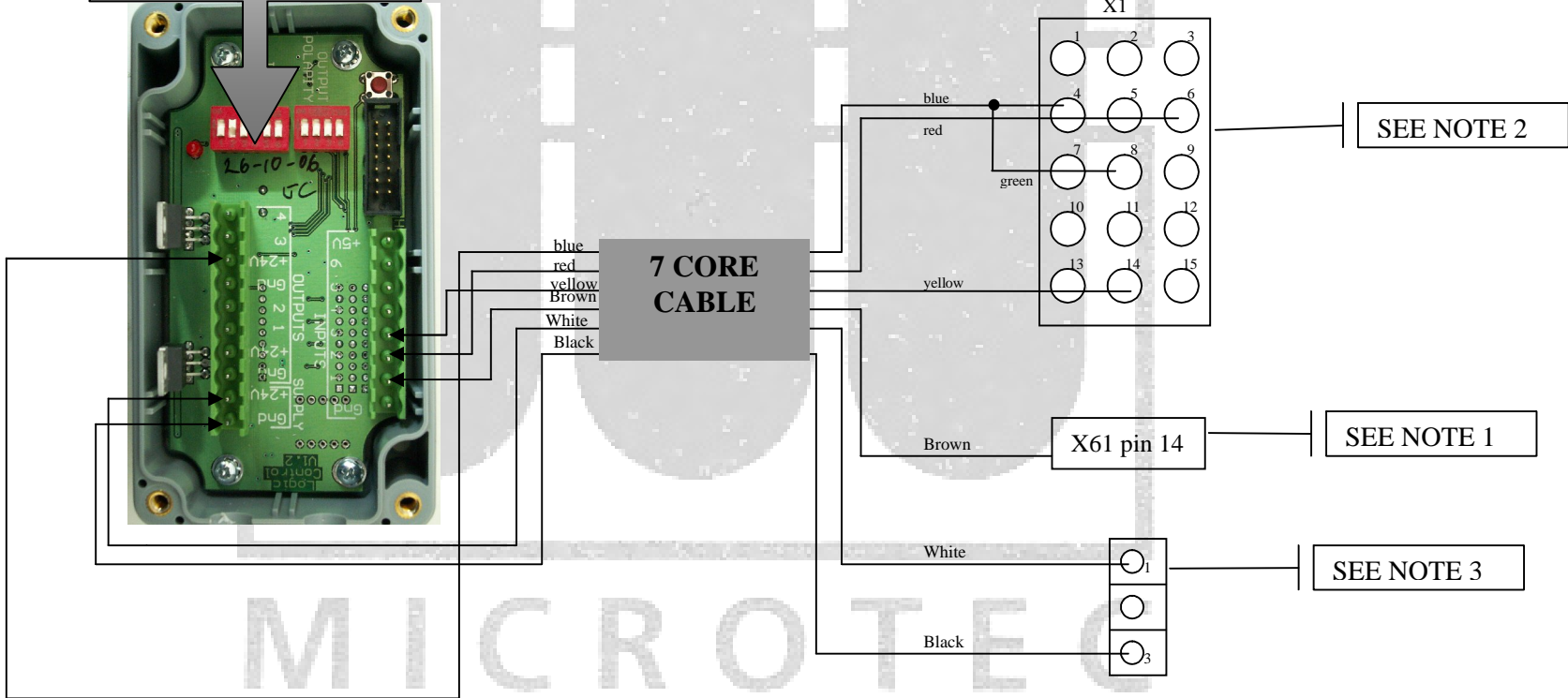
PREINSTALLATION PREPARATION

1. Isolate the batteries using the battery isolator.
2. Put the seat forward to access the panel behind
3. Remove the panel, this will expose the fuses. Use a flat head screwdriver and release the locks at the top left and right corner by turning anti-clockwise.
4. Locate the EKS5 main computer, located at the bottom left hand corner. Locate connector X1(15pin) and X9(3pin). These two connectors are situated close to each other on the EKS motherboard.
5. Locate connector X61 pin 14. It is situated near the main loom in the rear panel.
6. Mount the activation box in a suitable position in this area.

CONNECTIONS GROVE EKS5

SWITCH NO.	SWITCH POSITION
1	OFF
2	ON
3	OFF
4	OFF
5	OFF
6	ON

❖ Any unused wires may be cut off.



NOTES

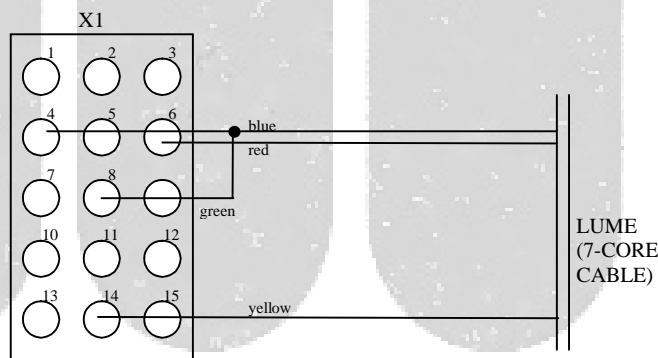
1

- Strip back approx. 20cm of insulation off the 7 core cable.
- Use the brown wire to connect to the X61 connector pin 14.
- *Use solder or a wire tap crimp to make the connection.*

2

- Locate X1 on the EKS computer located behind the seat.
- Disconnect X1. Check if terminals 4, 6, 8 and 14 on connector X1 has wire connections. If any do see note '1a' below.
- Crimp/solder the pins supplied to the end of the yellow and red wires. Insert the yellow wire into pin 14, red wire into pin 6.
- Cut the green wire off from the loom at the point where the insulation starts so now you have an approx 20cm long piece of wire. Crimp/solder the supplied pin to the end of the wire. Fit the pin into pin 8 of the connector.
- Crimp/solder both the blue and the other end of the green wire into one of the supplied pins. Push the pin into pin 4 of the connector
- *note: Because 2 wires are crimped to one pin in this case, it may be a little tighter to sit the pin into the socket. Take extra care.*

NOTE 1A:
If pins 4 & 8 have connections to them, do not worry about connecting anything to these pins. If pins 6 & 14 have wires in them, connect to these wires by using solder or a wire tap connector.



3

- Locate connector X9.
- Connect the white wire from the loom to connector X9 pin 1 (White wire).
- Connect the black wire from the loom to connector X9 pin 3 (brown wire).
- *Note: You may connect to these wires by either using the scotch clips provided, or by using the solder and heat shrink provided.*

