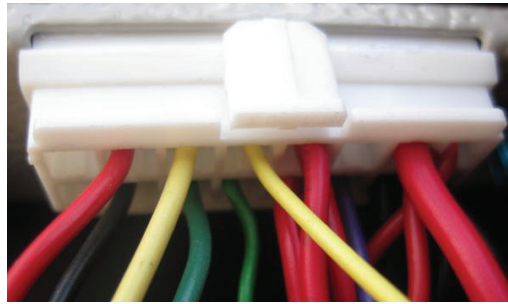
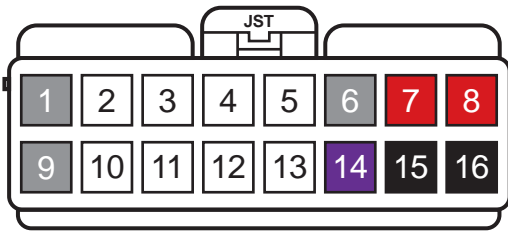


# UPGRADING SIGN CONTROLLER

## FROM LEGACY MODEL RM-32 TO CURRENT MODEL RM-32D 2019

### SIMPLIFIED UPGRADE WIRING DIAGRAM

Fitted with 4G Module



XLP-16V (Housing)  
SXF-41T-P0.7 (Pins)  
PCB (Side Entry Header)  
S16P-XL-HDS(LF)(SN)

## JST CONNECTOR – 16 PIN

Pin 1	Do not connect	
Pin 9	Do not connect	
Pin 2	Radar +VE 12 V <b>switched output</b>	<b>RED pin 1 Radar JST-4</b>
Pin 10	Radar GND	<b>BLACK pin 4 Radar JST-4</b>
Pin 3	Radar RS-232 TX	<b>YELLOW pin 3 Radar JST-4</b>
Pin 11	Radar RS-232 RX	<b>GREEN pin 2 Radar JST-4</b>
Pin 4	RS-232 TX output to Keyboard	<b>YELLOW</b>
Pin 12	RS-232 RX input to Keyboard	<b>GREEN</b>
Pin 5	Fan +VE 12V	<b>RED Fig.8</b>
Pin 13	Fan GND	<b>Black Fig.8</b>
Pin 6	Do not connect	
Pin 14	Tamper/On/Blank connects via 4K7 resistor to Battery	
Pin 7	+VE 12 Volts	Sign power input
Pin 8	+VE 12 Volts	Sign power input
		<b>THICK RED</b> <b>THIN RED</b>
Pin 15	GND	Sign Power input
Pin 16	GND	Sign Power input
		<b>THICK BLACK</b> <b>THIN BLACK</b>

RADAR JST-4



VMS KEYBOARD



### PIN 14 VOLTAGE CHECKS:

With battery 11 to 13.8V and normal condition, Pin 14 should be 5.6 to 7.5V.

If this is not so, the Tamper Switch is faulty (open circuit) or connection to the battery via the 4K7 is broken.

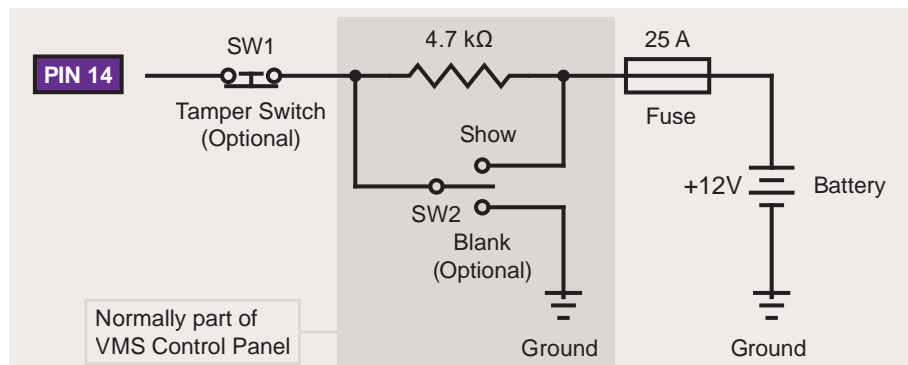
When Switch is at BLANK, Pin 14 should be 0V or very close.

When Switch is at SHOW, Pin 14 should be same as battery voltage, so 11 to 13.8V

## EXPLANATION OF PIN 14 FUNCTION:

**PIN 14** -----(3)----- [optional switch (2)]-----{4K7(1)}-----Battery +12V

- (1) Pin connects via 4K7 1% resistor to the battery line and monitors system voltage. As a minimum, connect to the Main Battery.
- (2) If the Line is broken (SW1) a 'Tamper' alarm is registered. This line can be connected via lid switches.
- (3) Blank / Resume Message Function. (SW2)  
If Pin 14 is pulsed to GND the message BLANKS  
If Pin 14 is pulse to + 12V the message DISPLAYS.



**Note: The SIM Card for this controller is a Micro SIM.**

Please organise with you service provider to change from your existing SIM to this new type.

