

JAMEX iROS

AS 2809 i intelligent Roll Over Switch

FITTING INSTRUCTIONS iROS ROLLOVER SWITCH TO LUCAS style BIG RED battery switch

Select suitable location for iROS roll over switch. Attention should be paid to minimise possibility of water ingress or damage from road debris.

A suitable sturdy bracket should be made to avoid switch vibration.

Mount iROS in a suitable location by removing lid and bolting through holes supplied in corners of the box. Check iROS is mounted in correct orientation, level & sturdy. Prior to refitting the lid, The seal supplied loose inside the case must be fitted to the lid with the join in the seal at the bottom.

- Blue wire (negative) To Lucas switch terminal 4
 - Green wire (batt iso switch control output pulse) To Lucas switch terminal 2
 - Brown wire (positive voltage supply*) To Lucas switch terminal 12
 - Black wire OPTIONAL warning light connect to ground side of 5 watt or LED dash warning lamp (max 10 watt) (other side of warning lamp connected to ignition switched positive supply* c/w 1 amp fast acting fuse)
 - Yellow wire OPTIONAL test input, connect to NO push to test button other side of switch connected to ignition switched positive supply* c/w 100 ohm resistor & 1 amp fast acting fuse (pull input high (9-28Volt) to test)
- (Terminal numbers above are for Lucas model 195SA / SSB "big red" battery isolation switch)

* all supplies should be fused with 1 amp fast acting fuse and connected to the dead / vehicle side of the battery isolation switch

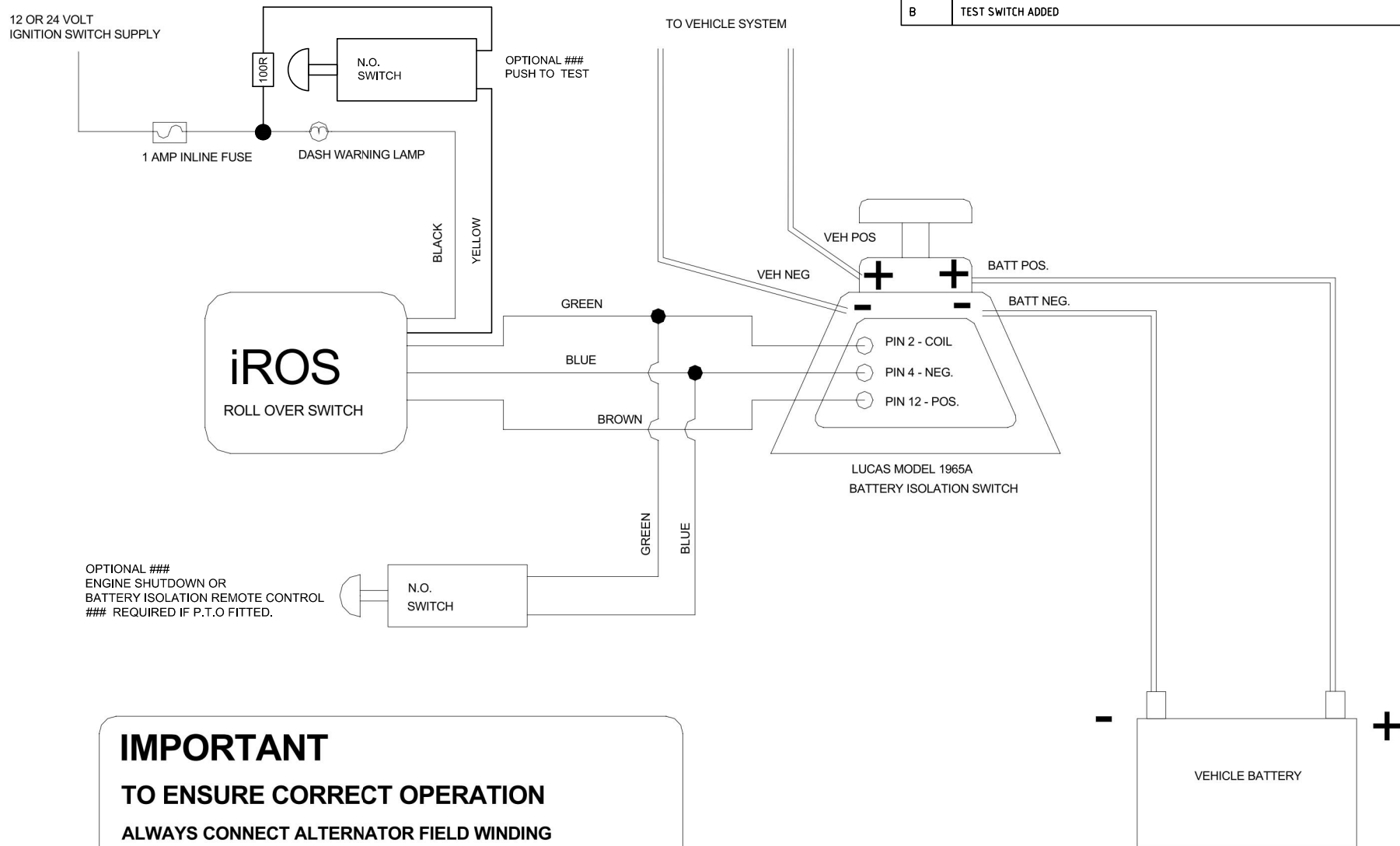
Once all connections are made check tension on battery terminals isolation switch terminals and screws. Double check polarity on all connections.

After connections are checked turn on battery isolation switch. To test iROS turn on the ignition switch, after a short delay the dash-warning lamp should illuminate then extinguish. Note iROS should be mounted in correct orientation for this to occur. If iROS orientation is not correct the fault lamp may stay illuminated or flash fault code. The lamp illuminating and then extinguishing indicates that the iROS has satisfactorily carried out self-test. If lamp does not come on, or stays on / flashes double-check all connections and retest. To retest iROS turn off battery isolation switch for 10 seconds and then turn back on, follow steps above.

For additional testing instructions see iROS testing information sheet

WARNING as with all electronics this unit is static sensitive, take precautions so as not to touch wires inside connector without ESD protection, incorrect connections can damage the iROS unit, damage of this type is detectable and will not be covered under warranty

RevNo	Revision note	Date	Signature	Checked
B	TEST SWITCH ADDED	07/01/2010	SWF	J.S.



IMPORTANT

TO ENSURE CORRECT OPERATION

**ALWAYS CONNECT ALTERNATOR FIELD WINDING
THROUGH ISOLATION SWITCH ALTERNATOR FIELD
WINDING CONTACTS LUCAS PINS 1 & 3.**

DAMAGE WILL OCCUR IF ANY CONNECTIONS ARE INCORRECT.

**CHECK ALL CONNECTIONS ON ISOLATION SWITCH ARE
TIGHT AND FOLLOW LUCAS WIRING DIAGRAM**

SEE FULL FITTING INSTRUCTIONS FOR FURTHER DETAILS

Itemref	Quantity	Title/Name, designation, material, dimension etc			Article No./Reference	
Designed by J.S.	Checked by J.S.	Approved by - date 22/08/03	File name .	Date 22/08/03	Scale N.T.S.	
JAMEX				iROS ROLL OVER SWITCH SCHEMATIC		
				JAM01-0300	Edition B	Sheet 1 of 1

JAMEX iROS

AS 2809 **i**ntelligent **R**oll **O**ver **S**witch TESTING INSTRUCTIONS

Test With fault lamp connected (self-test)

To test iROS connected to battery isolation switch c/w fault lamp

Turn on the isolation switch, the warning lamp should illuminate then extinguish.

The lamp illuminating and then extinguishing indicates that the iROS has satisfactorily carried out self-test. If lamp does not come on, or stays on double-check all connections and retest. To retest turn off battery isolation switch wait for 10 seconds and then turn back on, follow steps above.

If lamp flashes a “fault” see definition of fault codes below

Note. iROS should be mounted in correct orientation for this to occur. If iROS orientation is not correct the fault lamp may stay illuminated.

Fault lamp flash codes

2 flashes = Solenoid (battery isolation switch coil) failed or not connected.

3 flashes = accelerometer x-axis fail

4 flashes = accelerometer y-axis fail

5 flashes = Bad checksum

6 flashes = Calibration out of tolerance

To manually test iROS

Push and hold the “test” button for 10 seconds, the first 8 seconds of test button push is ignored by the iROS to avoid chance of false triggers by an item bumping the button, after 8 seconds the test lamp should illuminate as an indication the unit is activating it’s self test, after a further 2 seconds (rollover delay) the unit will activate and shutoff the battery isolation switch.

iROS can also be tested manually “the old fashioned way” by removing mounting bolts and holding stationary at an angle greater than 50 degrees.

Note. iROS unit needs to be stationary to activate, for this reason it is suggested the iROS be placed on its side on chassis or similar to test in this manner.

Note as iROS self tests on power up the iROS needs to be level & still (stationary) during power up. If the unit senses movement during power up it may fail the self-test and go into self-test failed “lockout” mode. (with fault lamp flashing)

To the unit will automatically “re- self-test” after 20 seconds and provided it passes the self-test go into normal operation

If during any testing an iROS “locks up” and fails to respond reset the iROS by unplugging iROS loom for 20 seconds. Then reconnect loom and retest. Due to the design of the Lucas battery isolation switch iROS may not reset by turning off and on the battery isolation switch

WARNING as with all electronics incorrect connections can damage iROS unit, damage of this type is detectable and will not be covered under warranty

For any additional information contact Jamex Pty Ltd on 03 5789 1488