

JAMEX iROS T

TIPPER STABILITY SENSOR FITTING INSTRUCTIONS

MOUNTING

Select suitable location for iROS to be mounted to the front underside of the tipper body (for accuracy iROS should always be mounted to the hoist end of the body never the pivot end) Attention should be paid to minimise possibility of water ingress or damage from road debris.

A suitable sturdy bracket should be made to mount switch level and in correct orientation bracket should also be designed avoid switch vibration.

Mount iROS in the suitable location by removing lid and bolting through holes supplied in corners of the box. Check iROS is mounted in correct orientation (see this way up and across chassis decal on top of iROS), level & sturdy.

Note 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.

Once final settings are made seal the lid with **electrical grade** sealant (**not** normal silicone) failure to do this will allow water entry when washing ect.

Also prior to refitting lid the iROS must be levelled electronically see below

WIRING CONNECTIONS

Connect iROS as below (**also see schematic wiring diagram**)

- Brown wire clean positive voltage source* switched by PTO
- Blue wire negative voltage source*
- Black wire (1st stage warning light) to ground side of 5 watt dash warning lamp
- White wire (2nd stage warning siren) to ground side of low power (1 amp max) siren
- Green wire (3rd stage raise permit) to Hoist raise permit solenoid or relay

Other coloured wires (if fitted) are not used in this version and must be suitably insulated & terminated

Once installed the end of the wiring harness (conduit) must be sealed with electrical grade sealant to stop water ingress back up the loom

iROS activates by switching loads to ground, loads (lamps, solenoids ect) should be connected directly to a fused positive power supply with the groundside of the device connected to iROS.

A max power of 10 watts or 1 amp per output

All power supplies must be fused with a 1 amp fast acting fuse.

All device supplies should also be switched off with power supply (with PTO control)

*Note: Connecting iROS to cleanest possible power supply will help avoid malfunction
Cleanest supply is a supply taken as close as practical to the vehicle battery (c/w fuse).

iROS INITIAL TESTING

Once all connections are made double check polarity on all connections.

To test iROS engage the PTO (to power up iROS), the second stage warning (siren) should activate (pulse) after a short delay the iROS 1st stage 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.

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 power supply (disengage PTO) for 10 seconds and then turn back on, follow steps above.

For additional testing instructions see iROS testing information sheet

ZEROING / LEVELLING iROS

Once iROS powers up and is working the iROS unit can be given a zero (level) reference. (Max out of level correction is 5 degrees)

To Zero iROS connect a PC (computer) with iROS software to the “D” connector inside the iROS case.

Make sure the body is as level as possible using a spirit level. Power up the iROS by engaging PTO, and push the “level / zero accel” button on the PC

WARNING

As with all electronics, iROS UNIT IS ESD (static) sensitive use ESD precautions when installing unit

Incorrect connections can damage iROS unit

Damage of this type is detectable and will not be covered under warranty

Caution moisture inside case will start corrosion that will lead to failure of device Once installed end of wiring harness (conduit) must be sealed with electrical grade sealant to stop water ingress back up the loom. After final settings are made seal the lid with electrical grade sealant (not normal silicone) as well as gasket supplied failure to do this will allow moisture entry, failure from moisture ingress is not covered under warranty

For any additional information contact Jamex Pty Ltd

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