

Prolec Liftwatch 5 Rated Capacity Indicator System

Dipper Extension (when fitted): Change-over Instructions

1. The basic Liftwatch 5 system contains one boom angle sensor and one dipper angle sensor. Each angle sensor has a plug connection at each end, enabling it to be used in a continuous chain of such sensors. The final angle sensor is fitted with a Termination Connector, which looks like the body of a cable connector, but is blind at the outer end.
2. When the system is switched on it will automatically recognise how many angle sensors are in place. For the basic monoboam configuration, the screen will display “2 piece equipment”.
3. When adding the dipper extension, proceed as follows:
 - ? Switch off the Liftwatch 5 system.
 - ? Offer the dipper extension up to the main dipper and make all the physical equipment connections.
 - ? Remove the protective cap from the extension dipper angle sensor. Remove the Termination Connector from the main dipper angle sensor and transfer it to the extension dipper angle sensor.
 - ? Remove the socket cap from the dipper extension angle sensor cable, and connect the cable to the main dipper angle sensor. Secure the removed socket cap in a safe place.
 - ? Switch on the Liftwatch 5 system. The display should now show “3-piece equipment”.
 - ? Reverse the above instructions when changing from the dipper extension back to the main monoboam configuration.
4. THE TERMINATION CONNECTOR MUST ALWAYS BE FITTED TO THE LAST ANGLE SENSOR, WHICHEVER CONFIGURATION IS BEING USED, OTHERWISE THE SYSTEM WILL NOT OPERATE CORRECTLY.

Motion Cut Over-ride Switch

The hydraulic solenoid valves, which stop all movement in the event that the height limit is reached, are plumbed as ‘fail safe’. The machine will therefore be immobilised. An over-ride switch is fitted on the system Combi-box. Proceed as follows.

- ? Open the access door immediately behind the cab, or access the Combi-box by whatever other means have been advised by the Prolec installation engineer. The solenoid valves and the Standard Combi-box are usually sited together.
- ? Unscrew the external cap on the Combi-box (on the end of the box – see attached system diagram), to expose the manual over-ride toggle switch. Throwing this switch will completely by-pass the Liftwatch 5 system, and allow the operator to lower the equipment to a safe position.
- ? Return the switch to its original position, and replace the external cap. The Liftwatch 5 system and its motion cut facility will now function as normal again.