

QUEENSLAND MINING INDUSTRY

HEALTH & SAFETY CONFERENCE

2015



NEW HOPE
GROUP

**Jeebropilly Mine Low Clearance Bridge
Solution**

Automatic Brake Application System





The Problem



The Problem



Existing Controls

Body Tag



Body-up Light



Existing Controls

Body-up speed limited



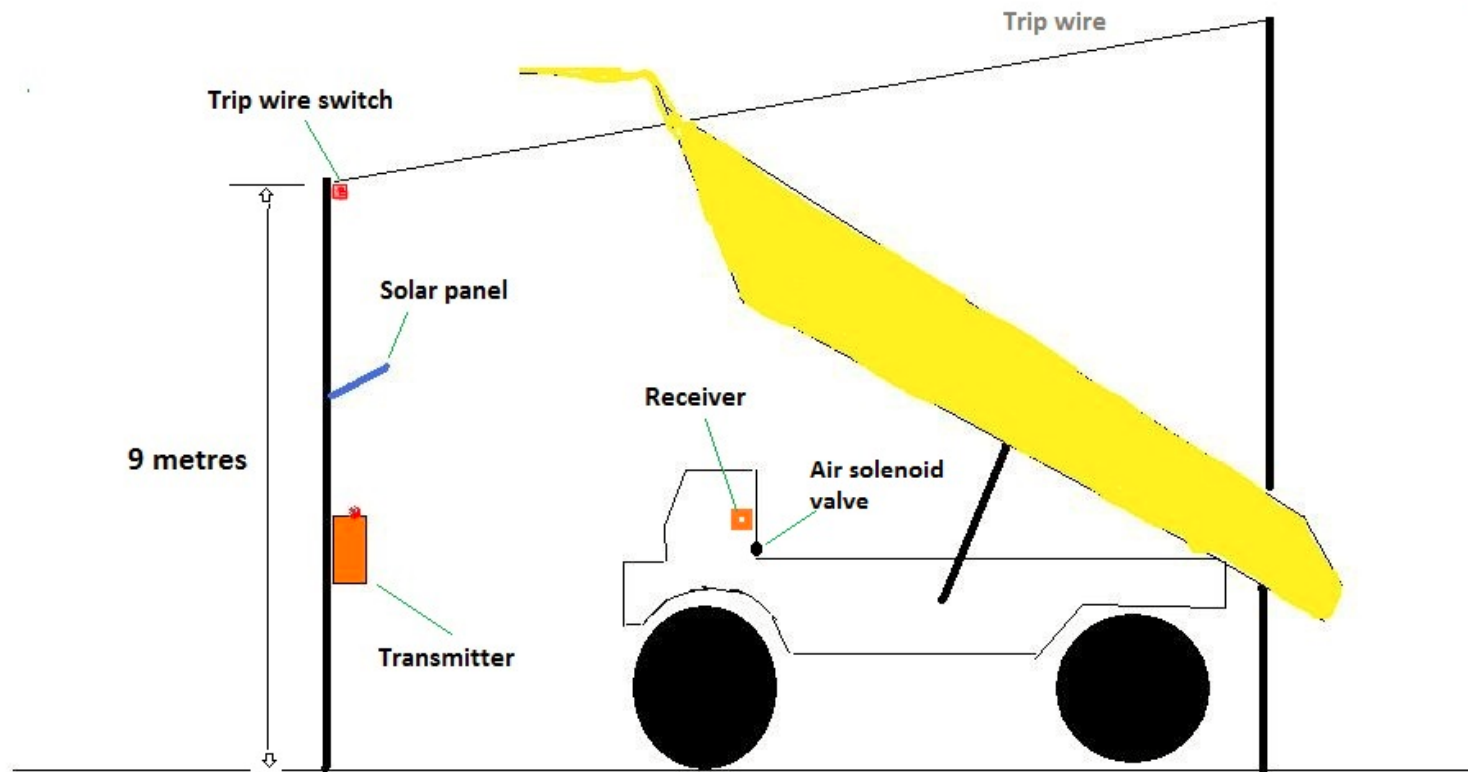
1st = 13 km/h

Automatic Brake Application System

Flashing lights on bridge



The Solution



Transmitter Assembly



Trip Wire



Automatic Brake Application System

Pull Switch



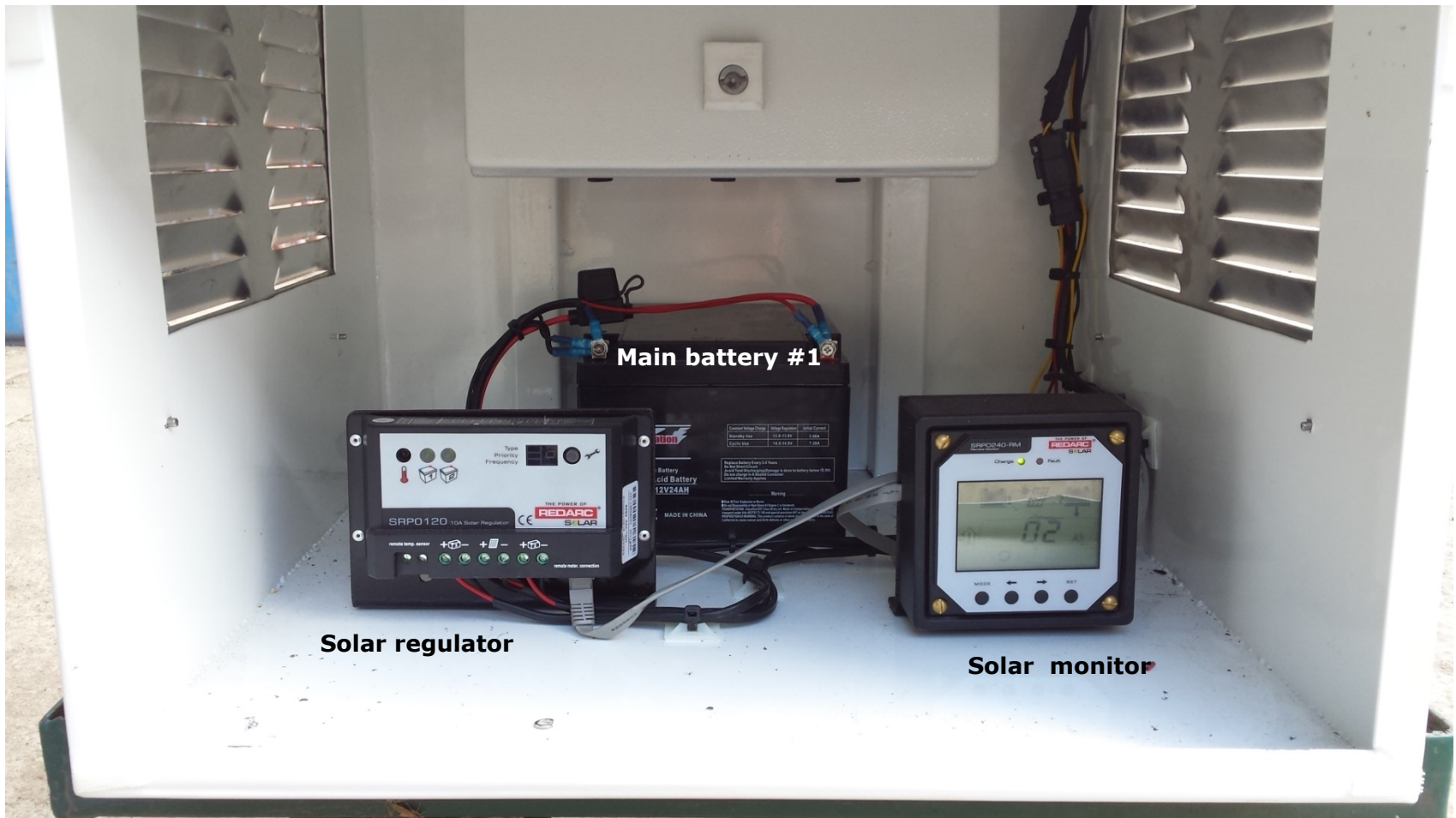
Transmitter Pole



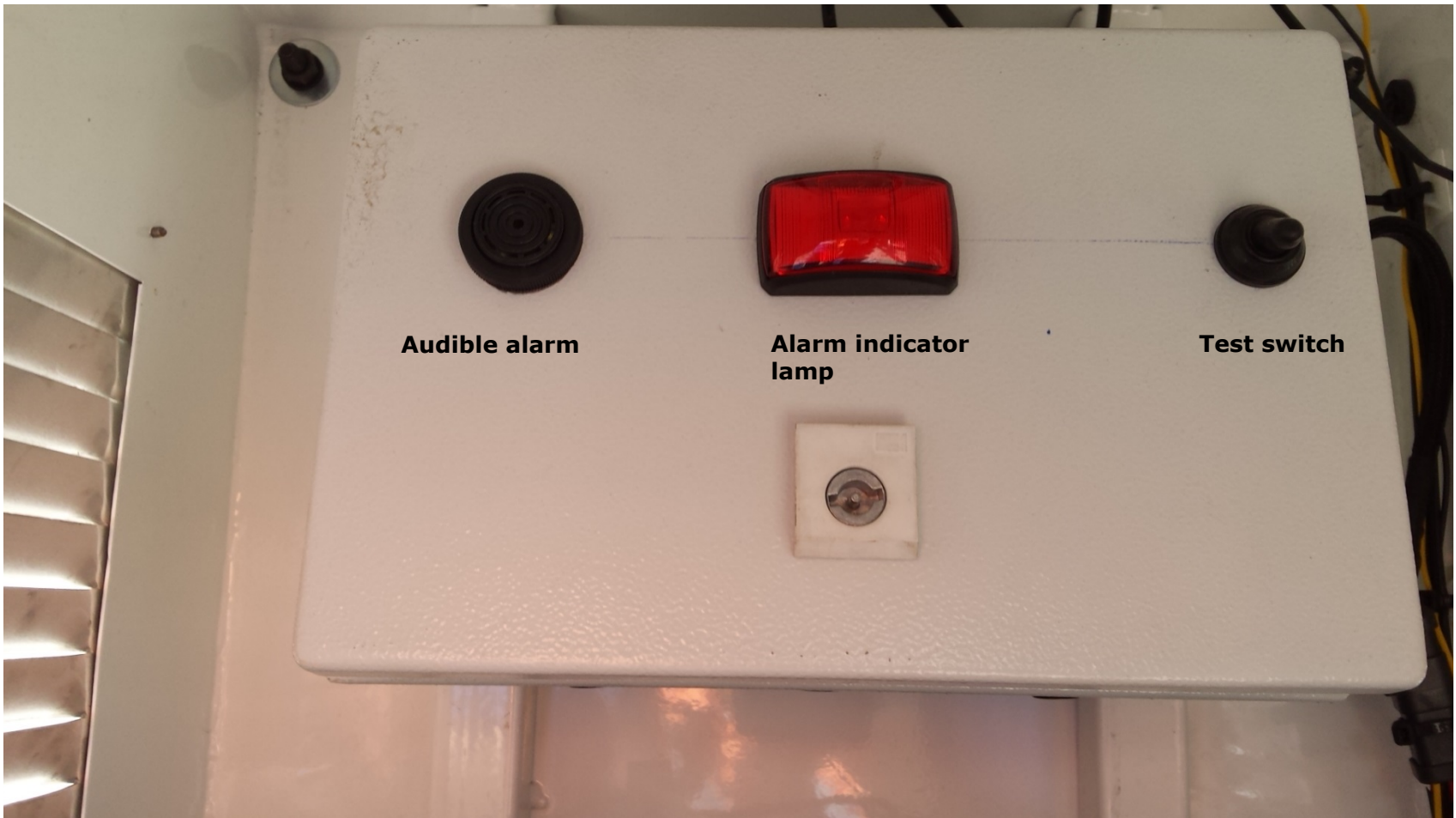
Transmitter Enclosure



Power Supply & Charge



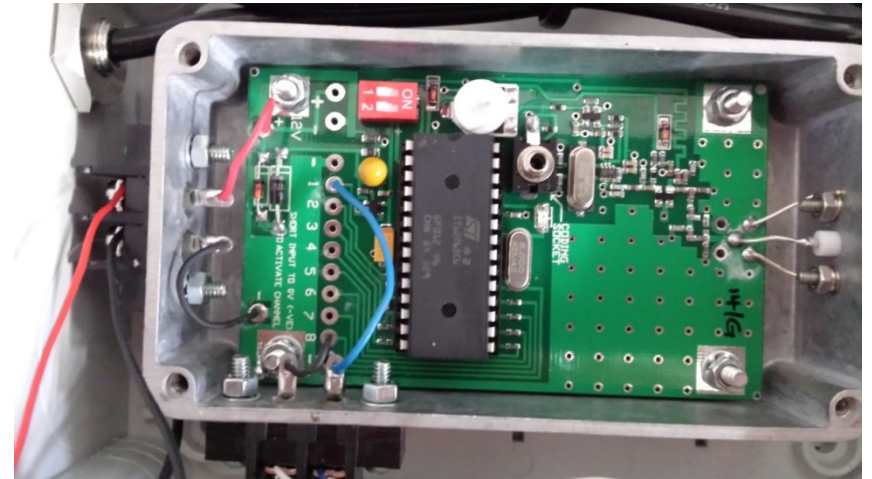
Transmitter Box



Transmitter Control

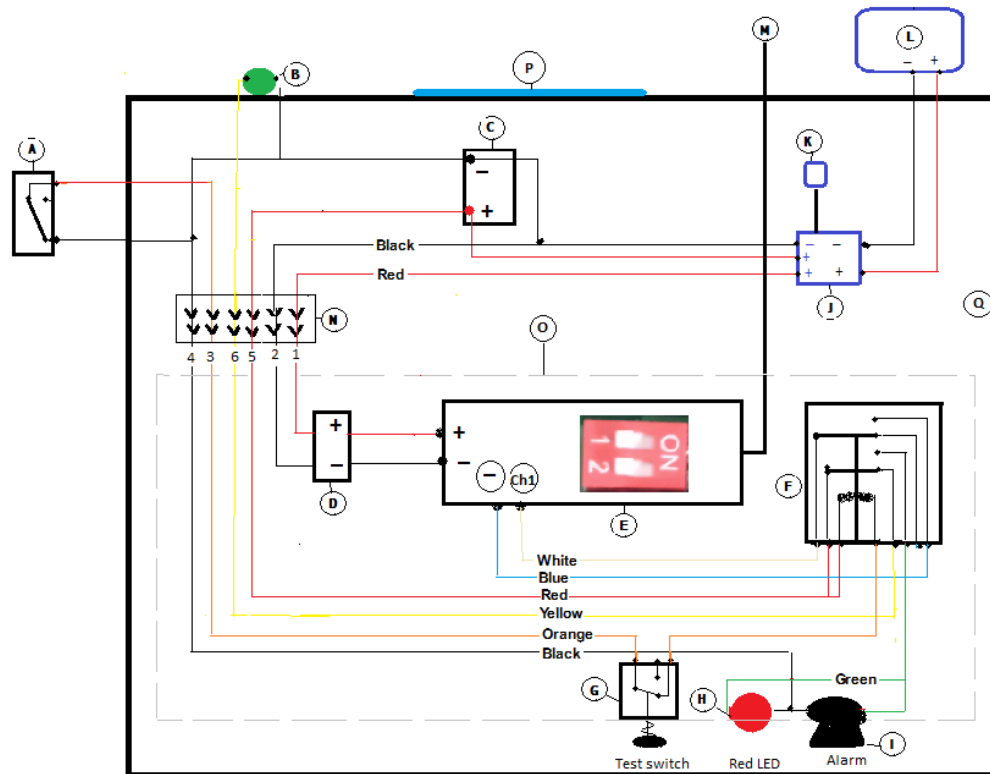


Transmitter



Latching

Transmitter Schematic



Receiver Components



Receiver box enclosure



Solenoid valve

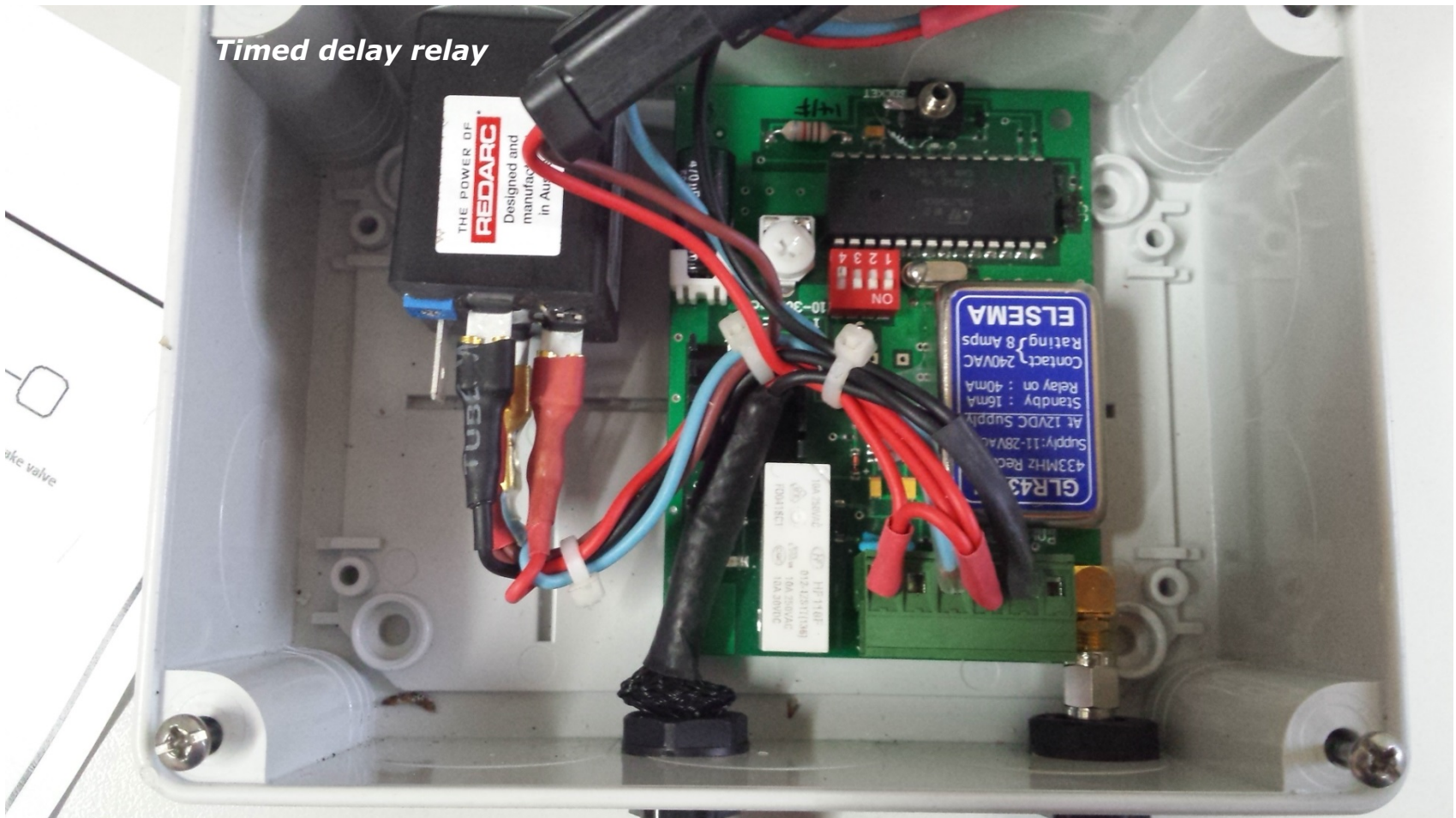


Antenna

Receiver Box



Receiver Control

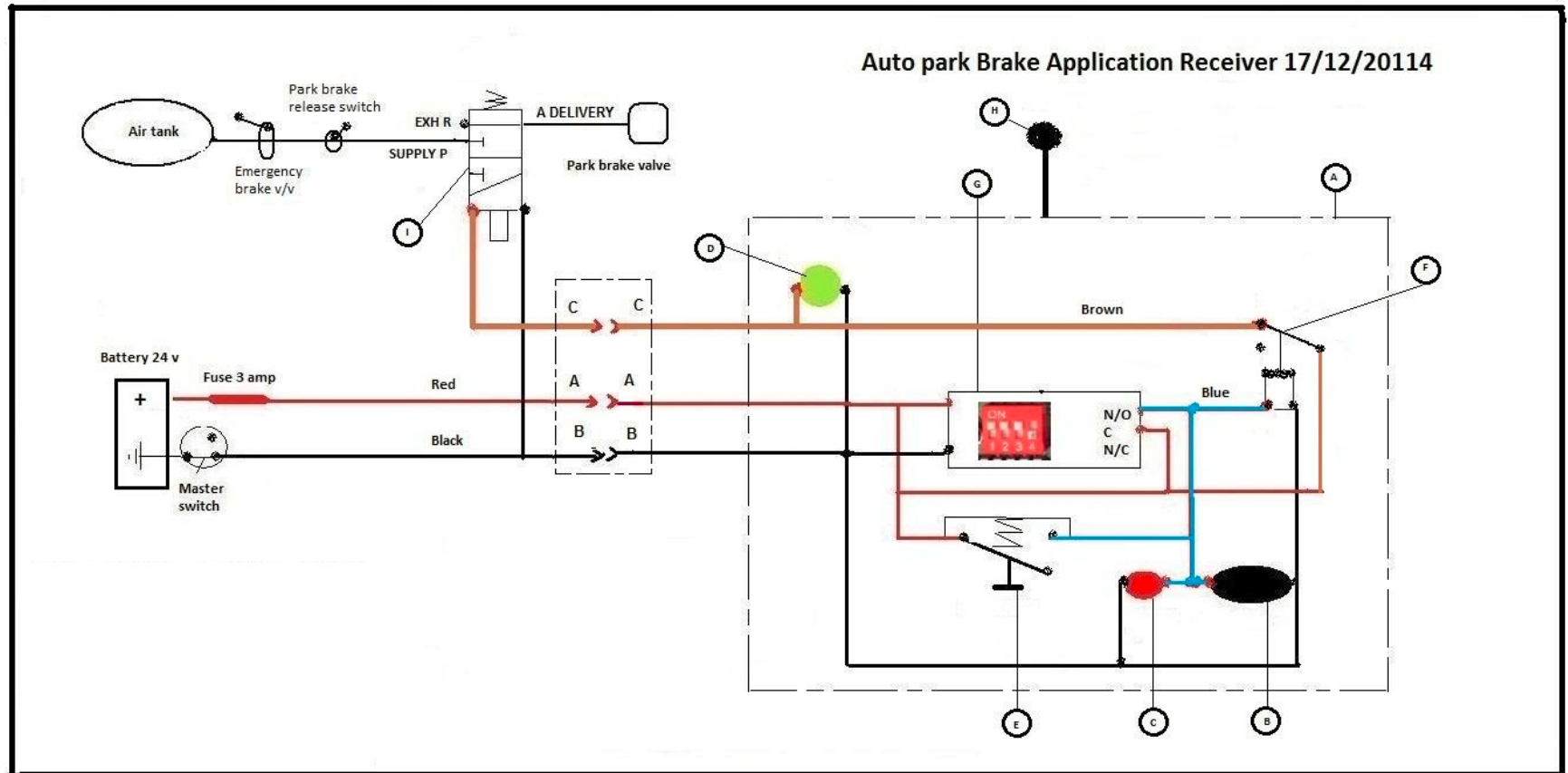


Air Solenoid



Constantly powered

Receiver Schematic



Receiver Test Box



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THE END

