

COLLECTIVE
INTELLIGENCE
GROUP

FORKLIFT iQ360

HARDWARE INSTALL GUIDE (Ver1.0)



Forklift iQ360 Install Guide

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INCLUDED PARTS LIST



1 x 7" Tablet



1 x RAM Mount Set



4 x M12 x 16 Pan Head bolts
4 x M4 Flat Washers
4 x M4 Spring Washers



1 x 12v Horn Relay
1 x Relay Base w/ Terminals

OVERVIEW

The Forklift iQ360 system provides a basic fleet management system that will report Driver ID, electronic safety checks and GPS location information to a web-based server via the 4G mobile network or a customer's Wi-Fi network.

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PLAN THE INSTALLATION

Be sure to check each voltage source - switched power (ignition) and ground to ensure that the proper signalling exists.

This is typically accomplished with a multi-meter.

- The ignition signal should provide voltage only when the ignition is engaged.
- The ground signal should be connected to chassis ground or battery negative.

Before drilling any holes or running any wires, decide where the hardware will be Located and be sure:

- That the cables are not bent or constricted in any way.
- To prevent the accidental or intentional alteration of the equipment.
- To allow the ongoing maintenance of both the vehicle and Forklift iQ360 system.

The best way to ensure a trouble-free installation is to consider your options and make some decisions before you start.

POSITION OF MAIN MODULE

Using the supplied RAM mount and M4 screw set, attach the tablet to the vehicle.

Typical mounting locations would be:

- on the dash panel,
- firewall,
- on the overhead guard pillar.



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POWER CONNECTION

RED & YELLOW wires: Connect together and then to the key switch @ 9v to 35v DC.

BLACK wire: Connect to the vehicle's battery negative.

** Power Converters required on vehicles over 35v **

RELAY OUTPUT

Once the system is correctly installed, the vehicle will not operate until an authorised driver has logged on to the tablet with PIN number.

The tablet's green wire will switch to 12v when a driver logs on. It is designed to switch the 12v automotive relay supplied with the kit, which in turn will allow access to the vehicle.

The relay output wire has a maximum capacity of 400mA @12v DC. Exceeding this will cause damage to the tablet.

SPECIFICATIONS

- ELECTRICAL**

Operating Voltage	9-35 volts DC
Operating Current	Less than 1.0A @ 12v DC
Power Consumption	Less than 10W (charging mode)
Relay Output	12v DC, capable of delivering up to 400mA max.

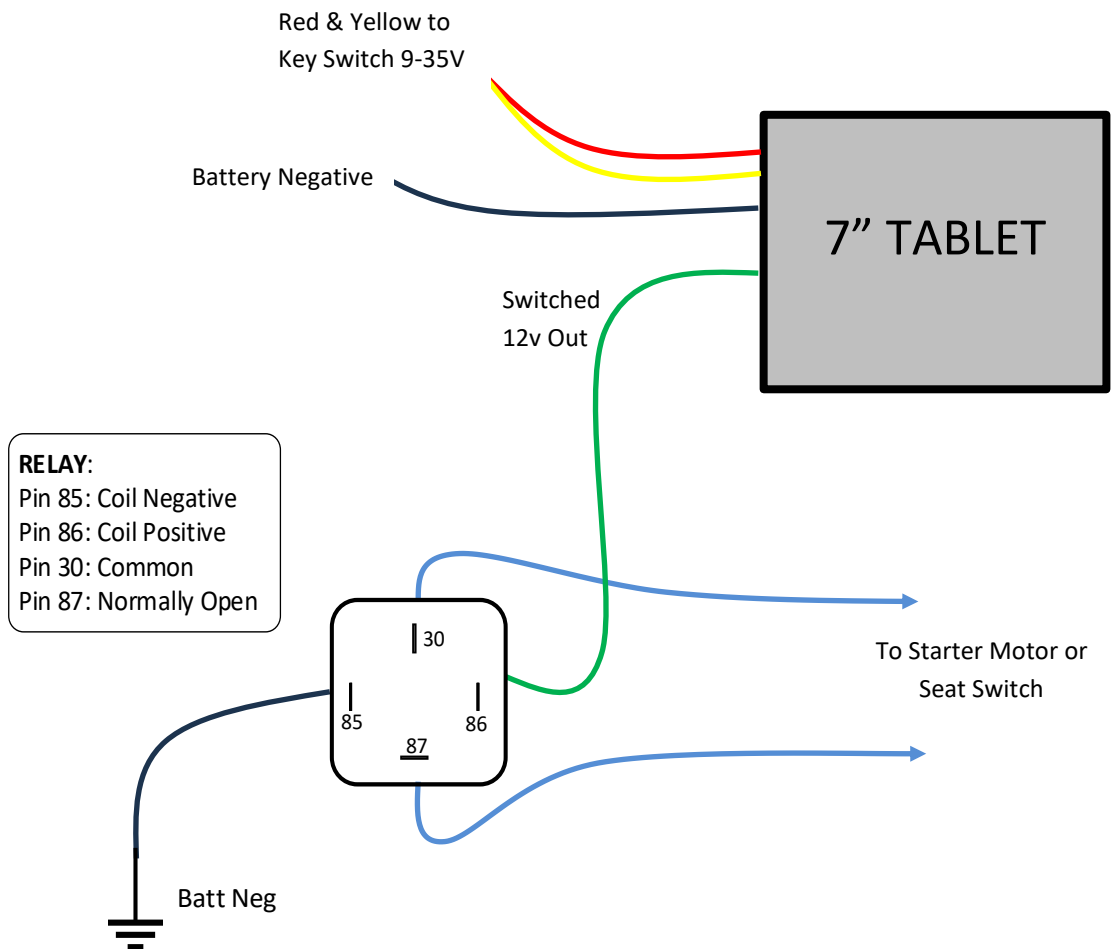
- ENVIRONMENTAL**

Operating Temp	-20°C~70°C(w/o battery) -20°C~50°C(w/ battery)
Storage Temp	-20°C~80°C
IP Rating	IP65

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WIRING DIAGRAM



Relay Operation

1. Turn on the vehicle ignition.
2. Log on to Forklift iQ360 using a valid PIN number.
3. Green wire goes from 0v to 12v.
4. Relay coil energises.
5. Relay contacts (pins 30 and 87) close, which enables the vehicle to operate.
6. Turn off the ignition.
7. Green wire drops to 0v, de-energises the relay.
8. Vehicle cannot be operated.