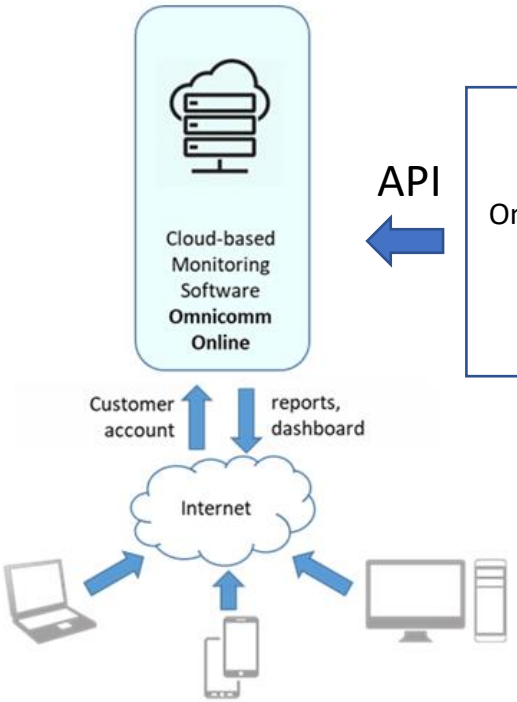
OMNICOMM
FUELLING YOUR BUSINESS

OMNICOMM fleet monitoring solution

Smart fuel pump solution

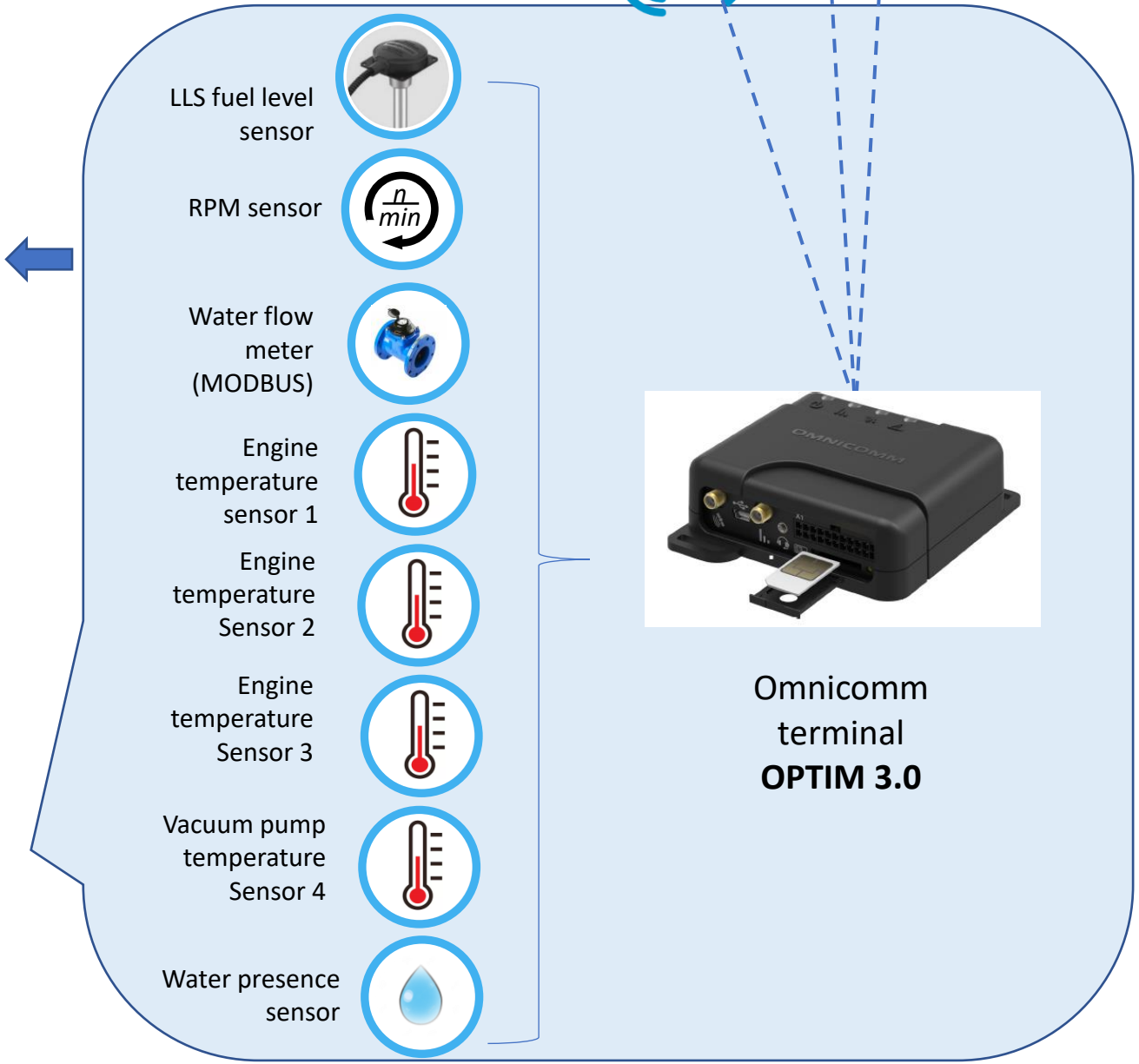
SOLUTION ARCHITECTURE



API

Omnicomm server

GPRS



Omnicomm terminal **OPTIM 3.0**

WATER PUMP ENGINE

Suction pump

Manual Controller box

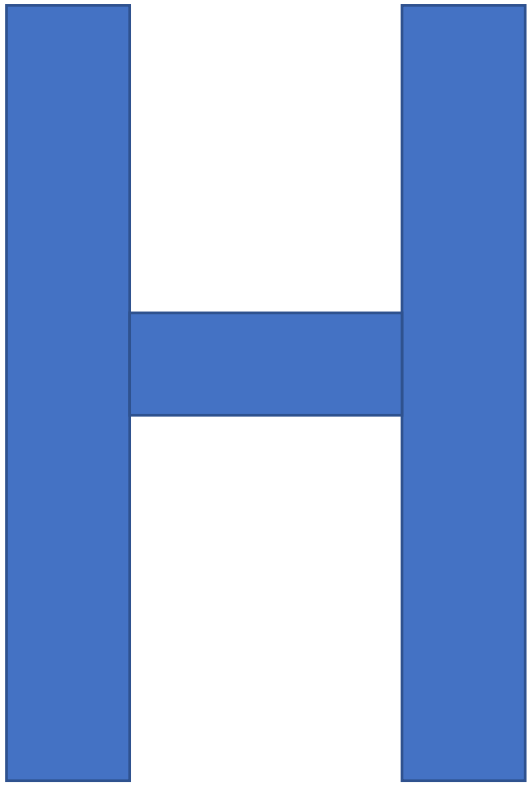
Engine alternator

Engine for driving suction pump

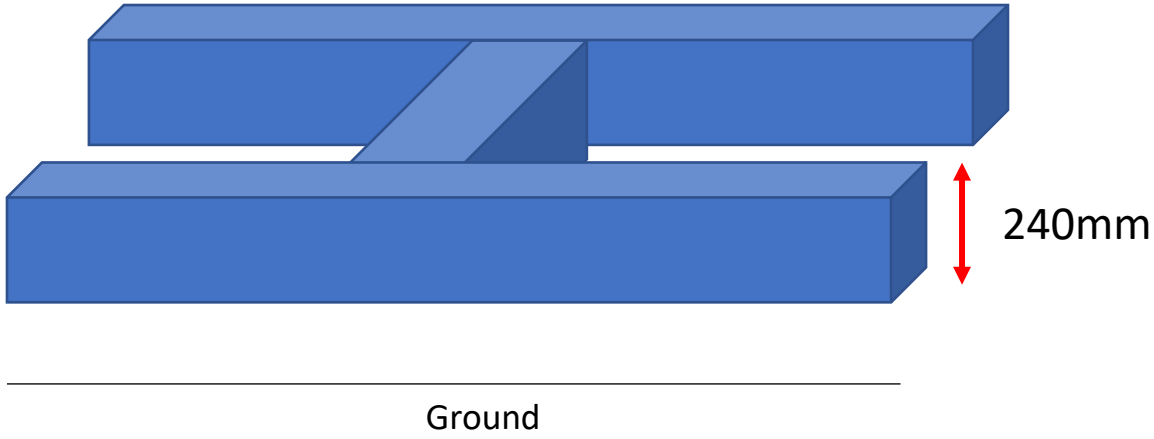
Placement of Omnicomm LLS

Fuel tank (Diesel)

FUEL TANK



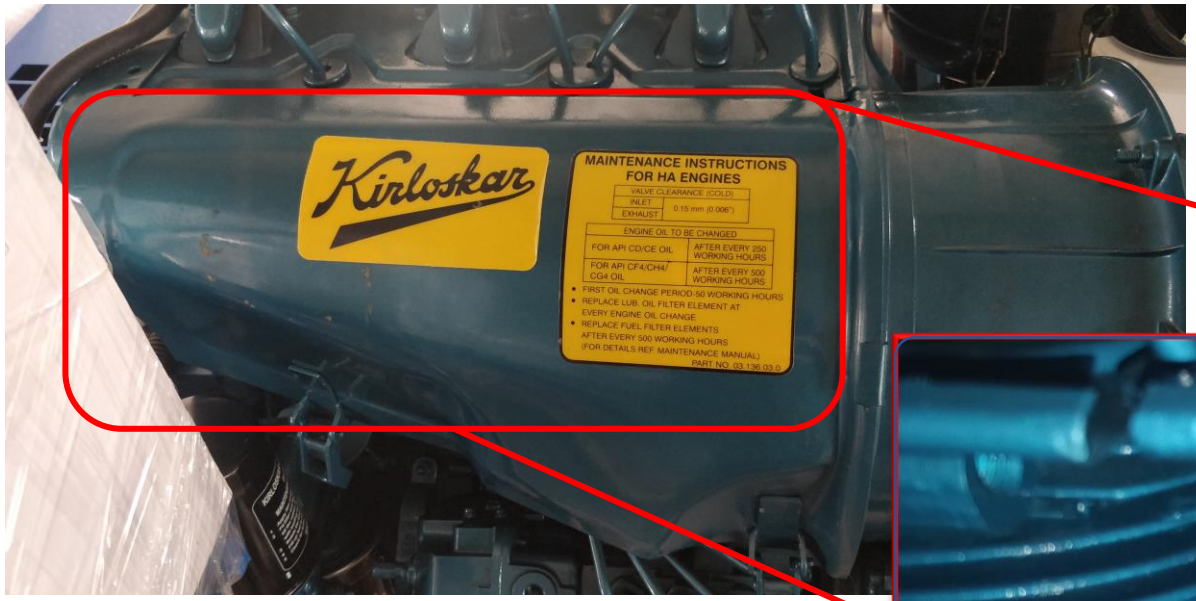
Top view

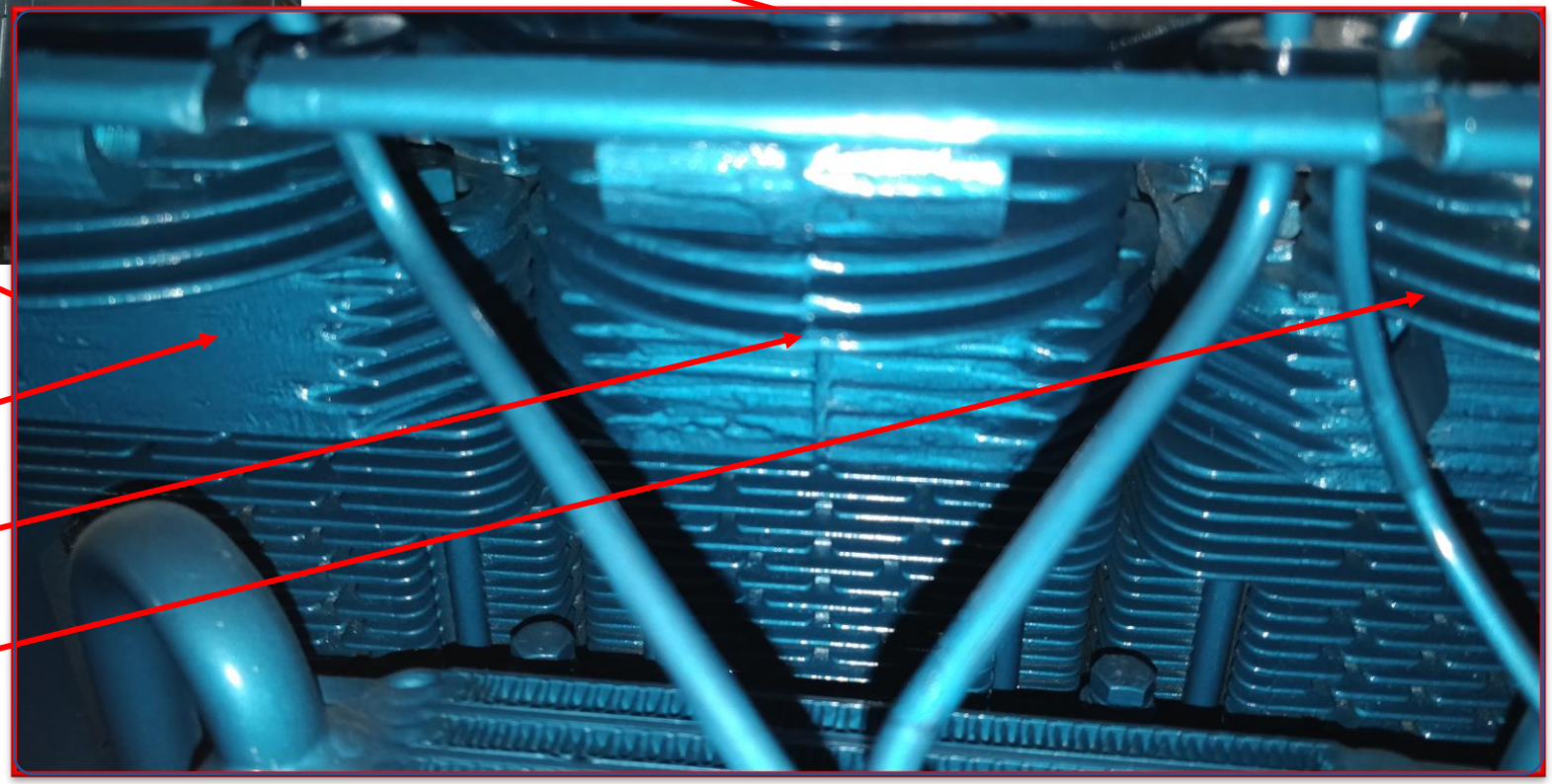


Side view

Omnicomm LLS 4 fuel level sensor

ENGINE BY KIRLOSKAR



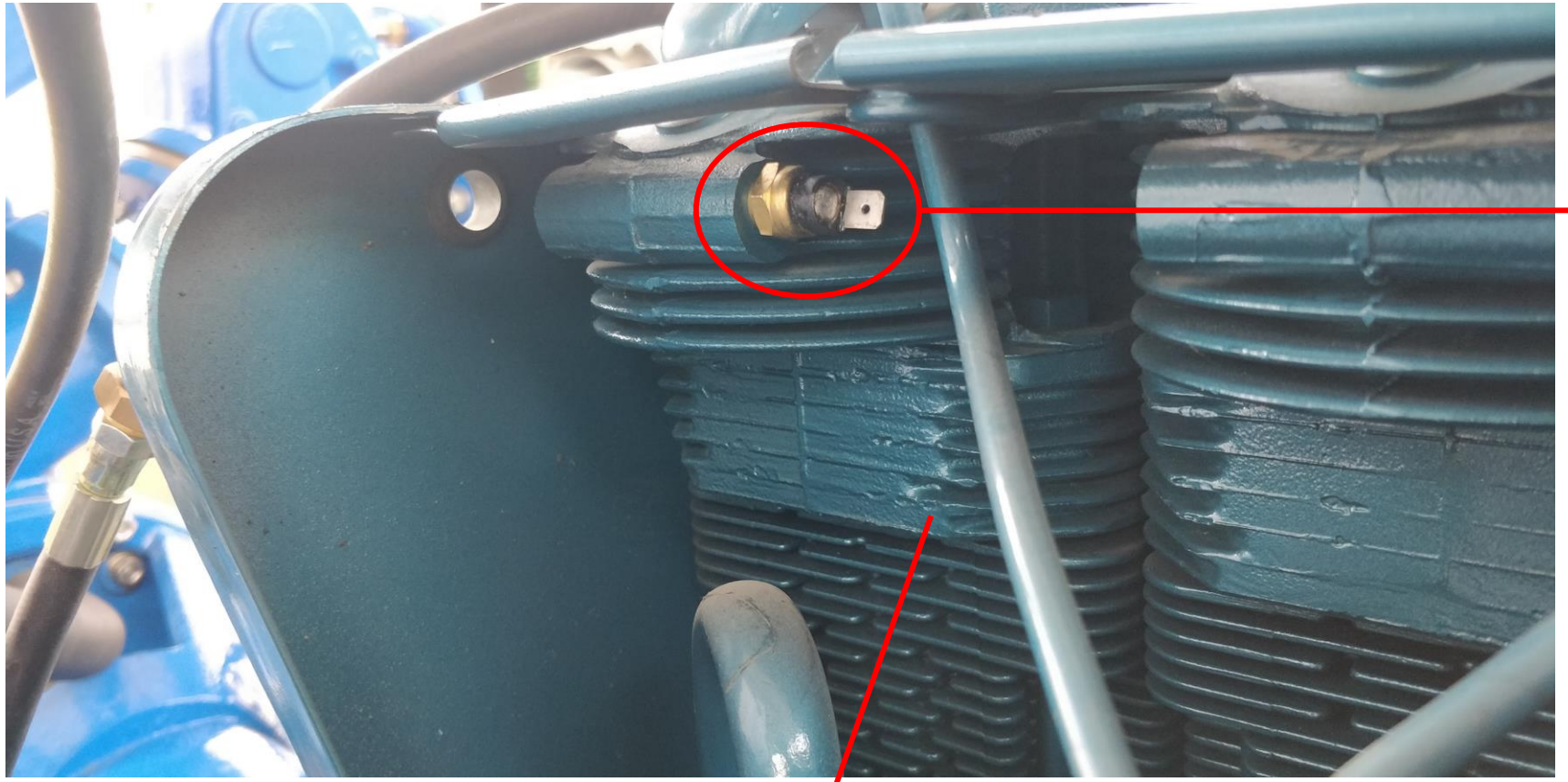


Engine cylinder 1

Engine cylinder 2

Engine cylinder 3

TEMPERATURE SWITCH

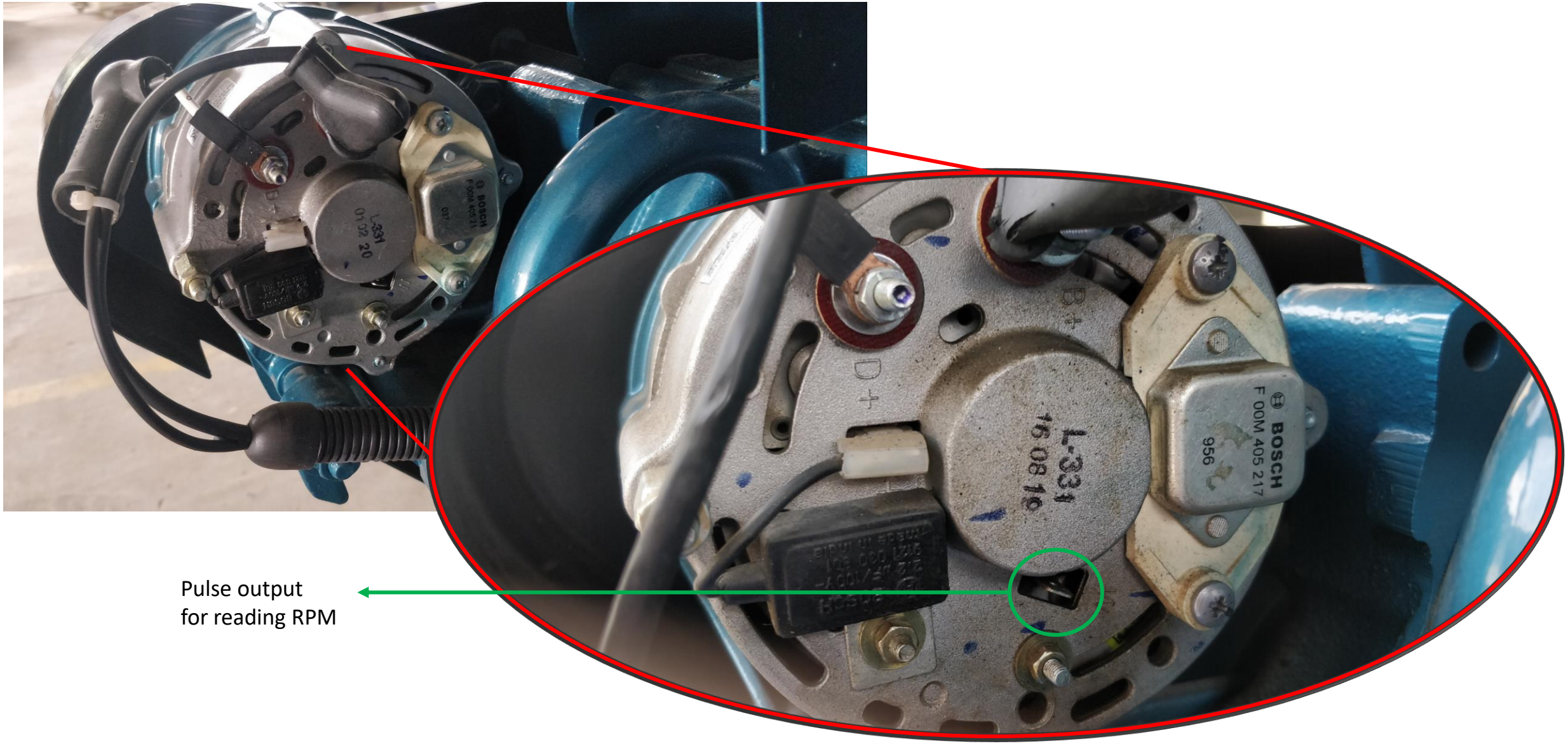


Engine

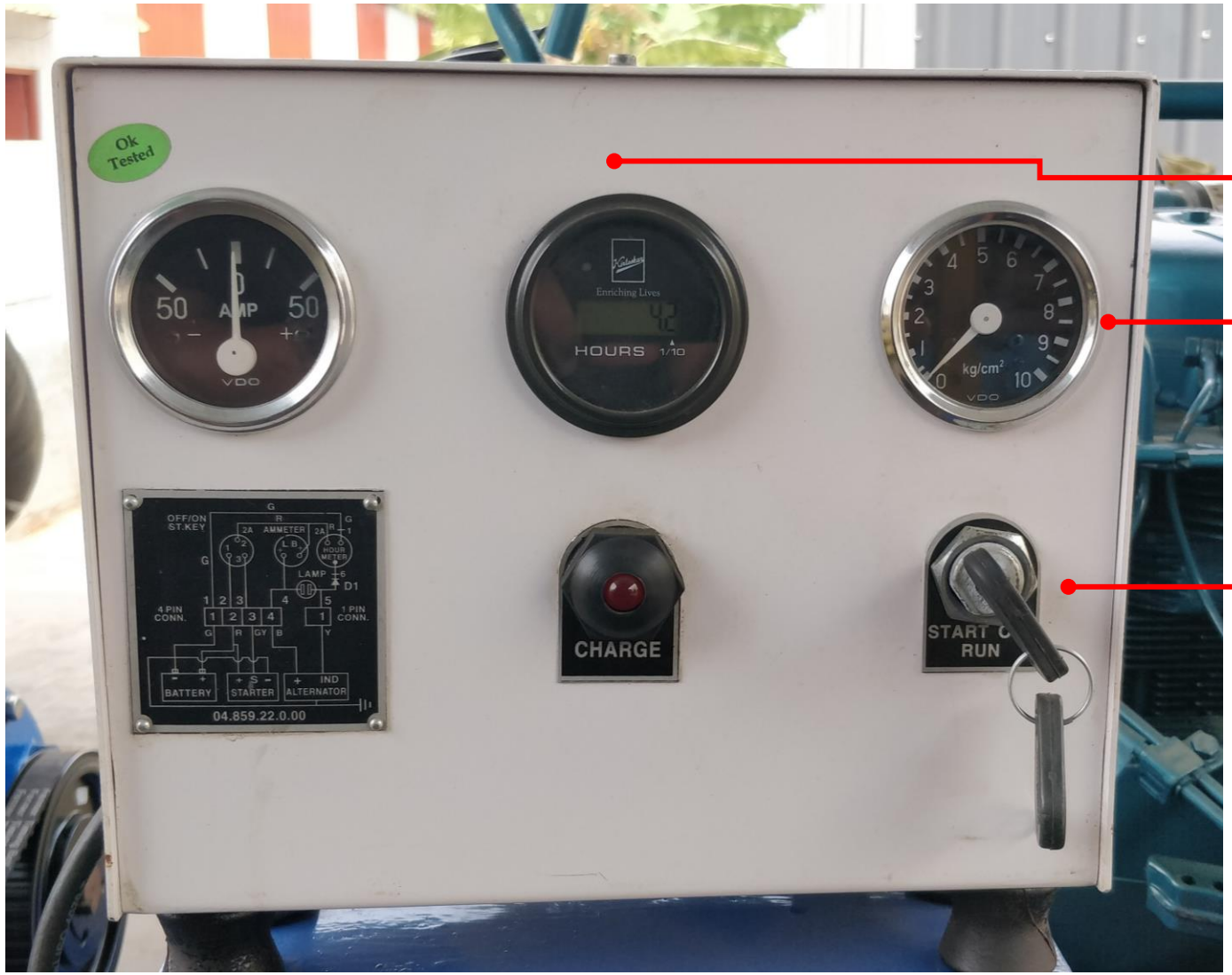
Normally open switch
Switch on temperature: 175+/- 5 deg c
Output supply voltage : 5V (when closed)

Totally three sensors placed
fitted to all cylinders (each one)

Engine Alternator coil



Manual controller box (OLD)

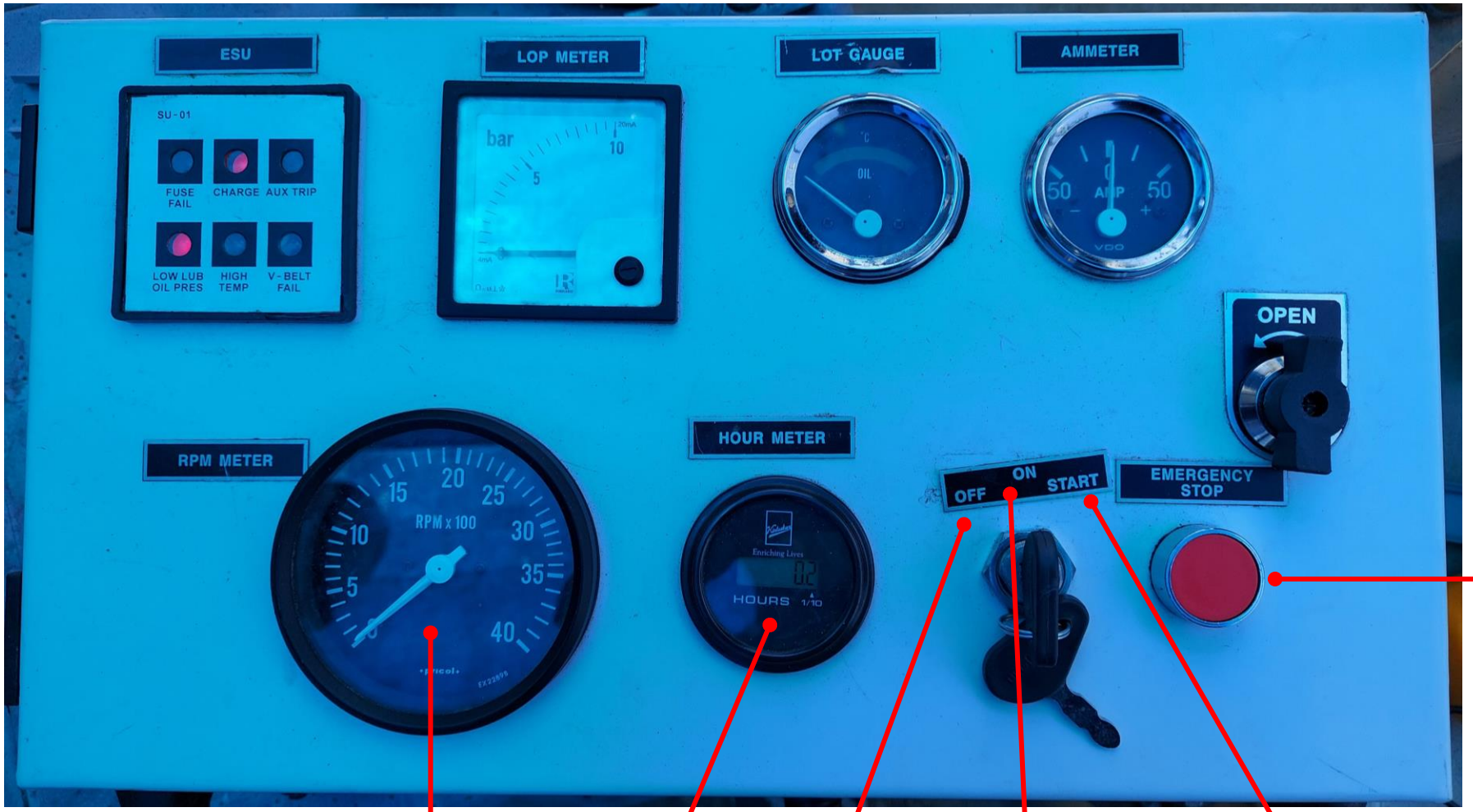


Engine Hours meter

Pressure scale

Ignition ON/OFF

Manual controller box (NEW) Front panel



Engine stop

Engine RPM meter

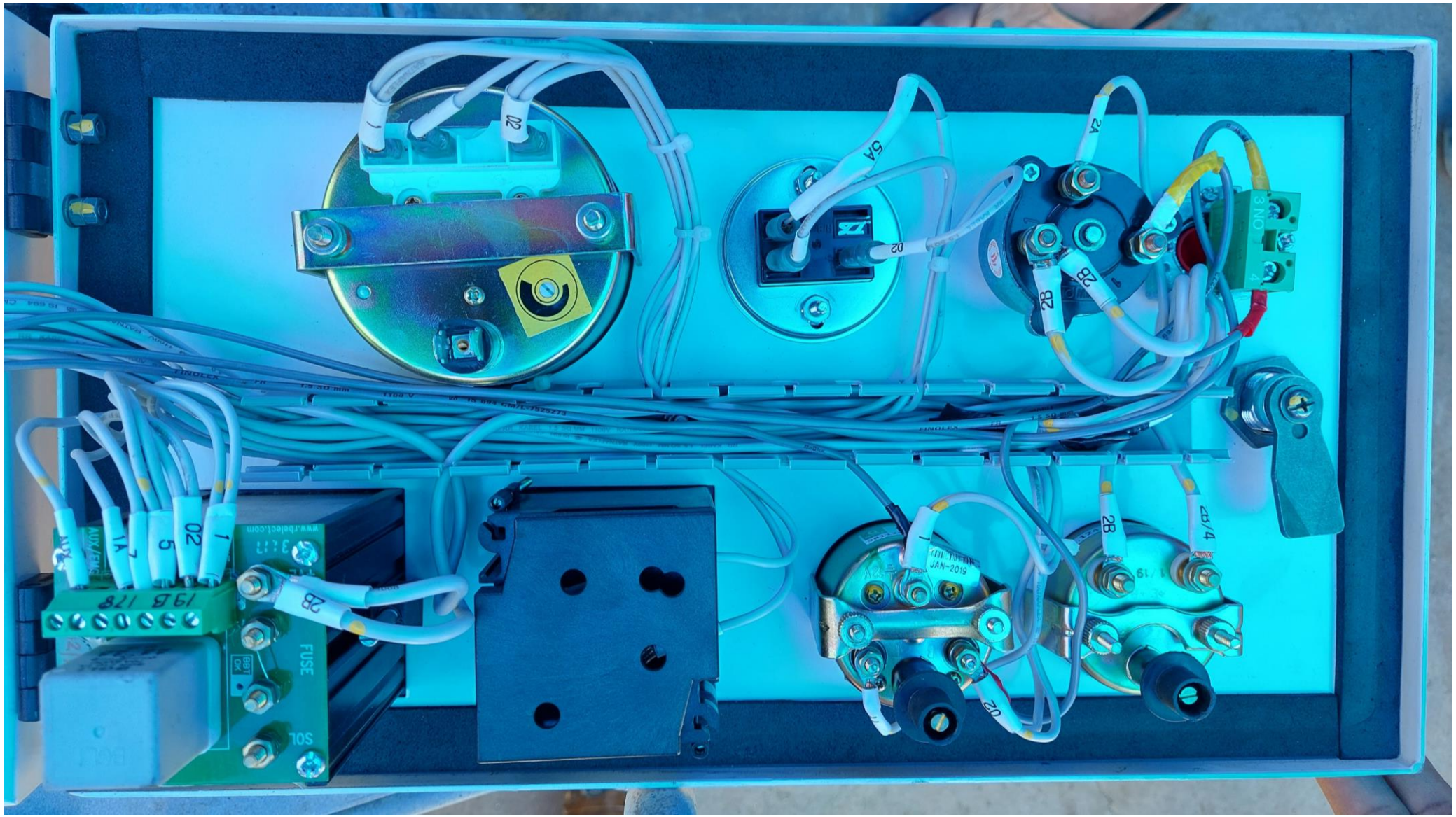
Engine hour meter

Reset

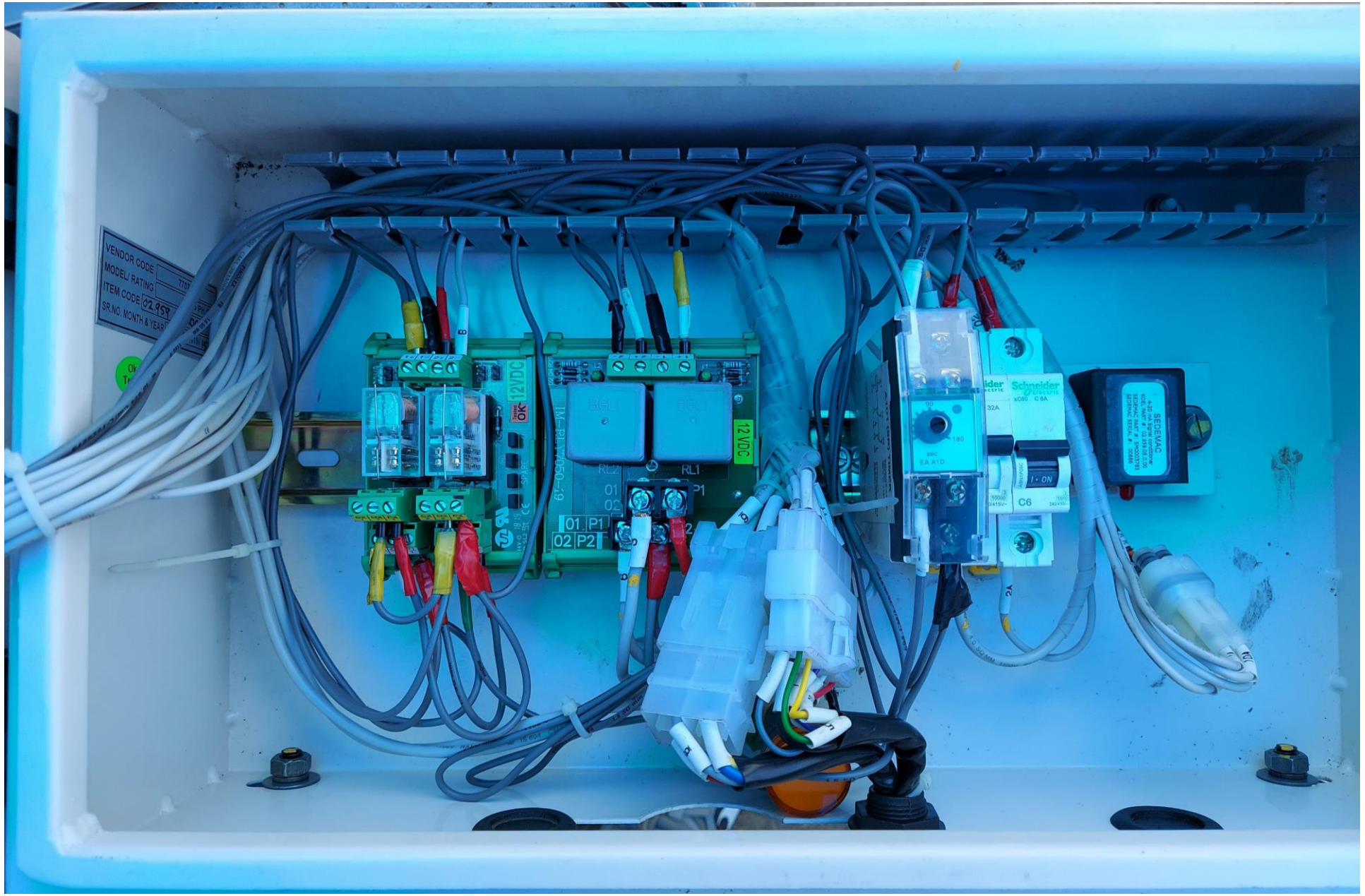
Ignition ON

Engine start

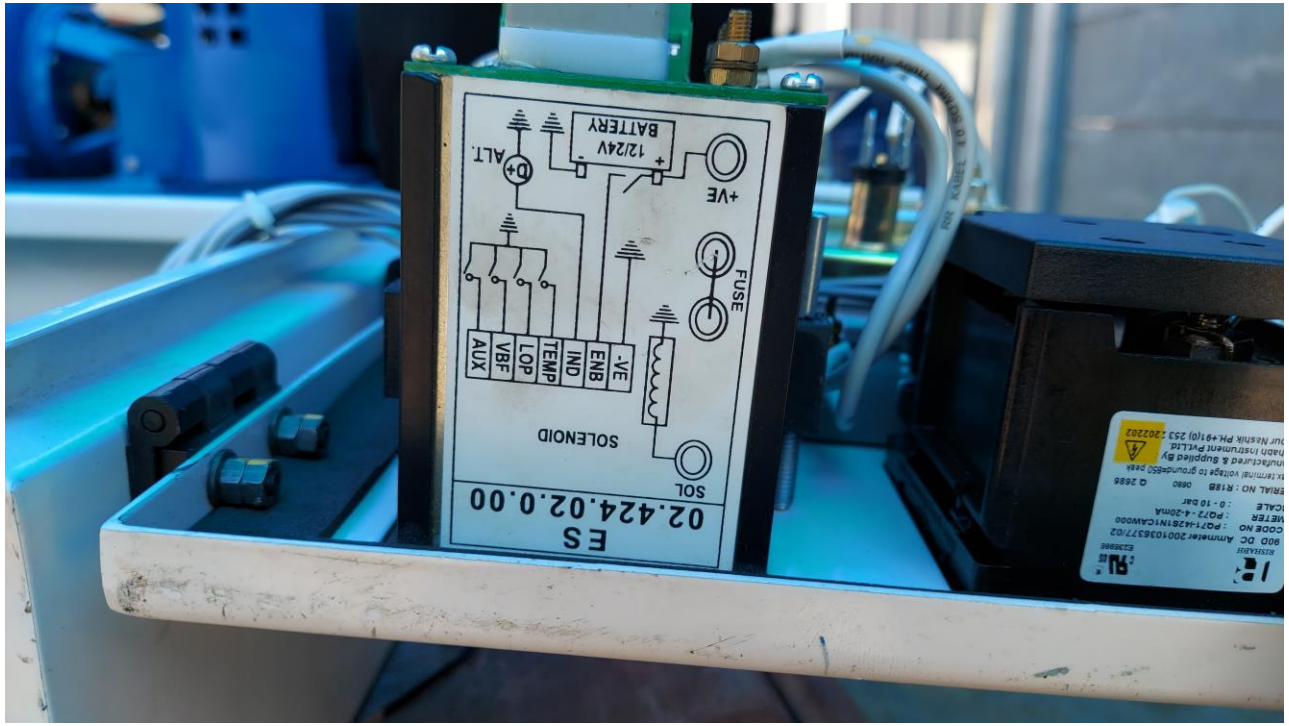
Manual controller box (NEW) Back panel

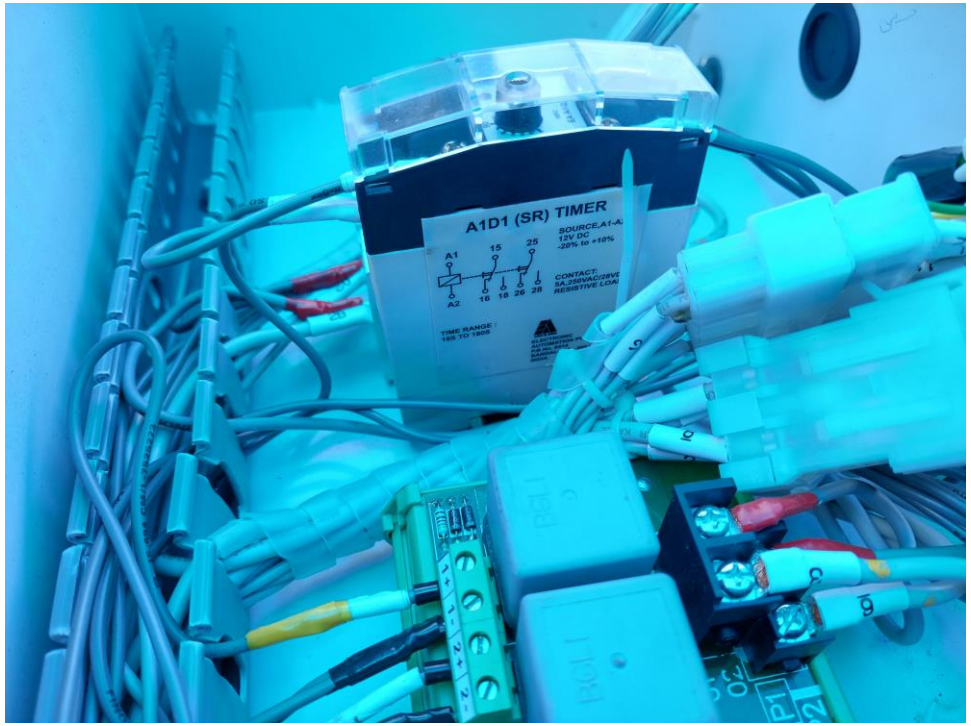


Manual controller box (NEW) Internal components

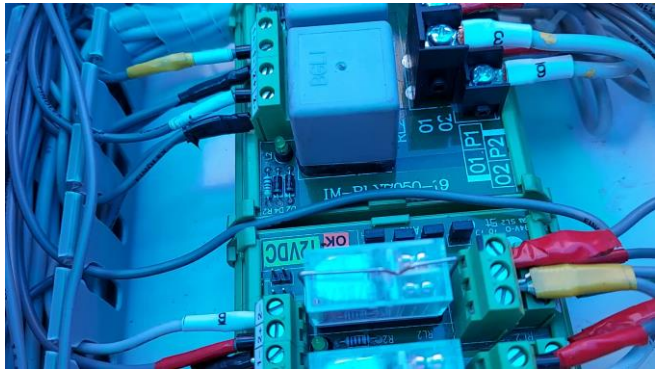


Manual controller box (NEW) Internal components

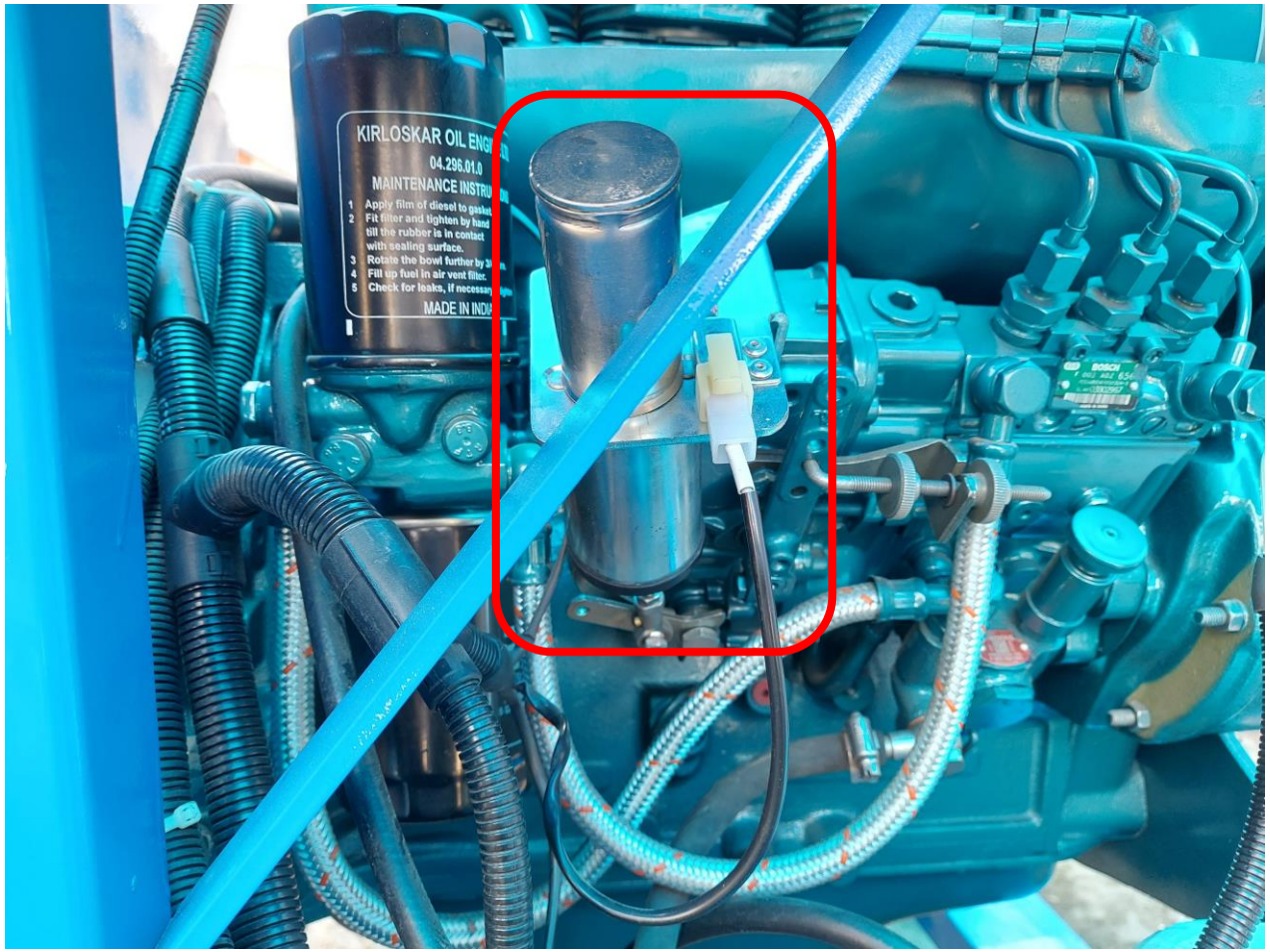


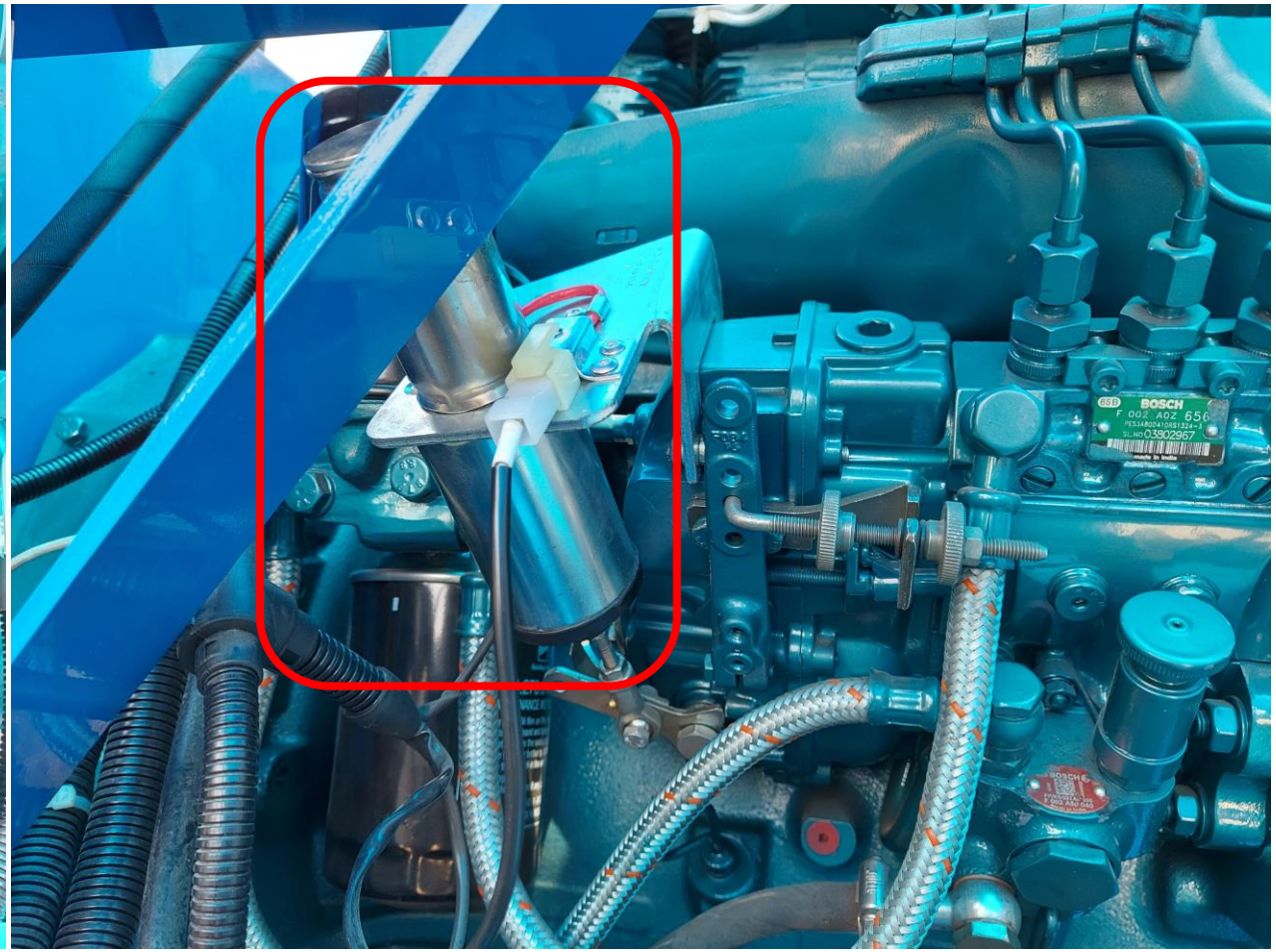


Video

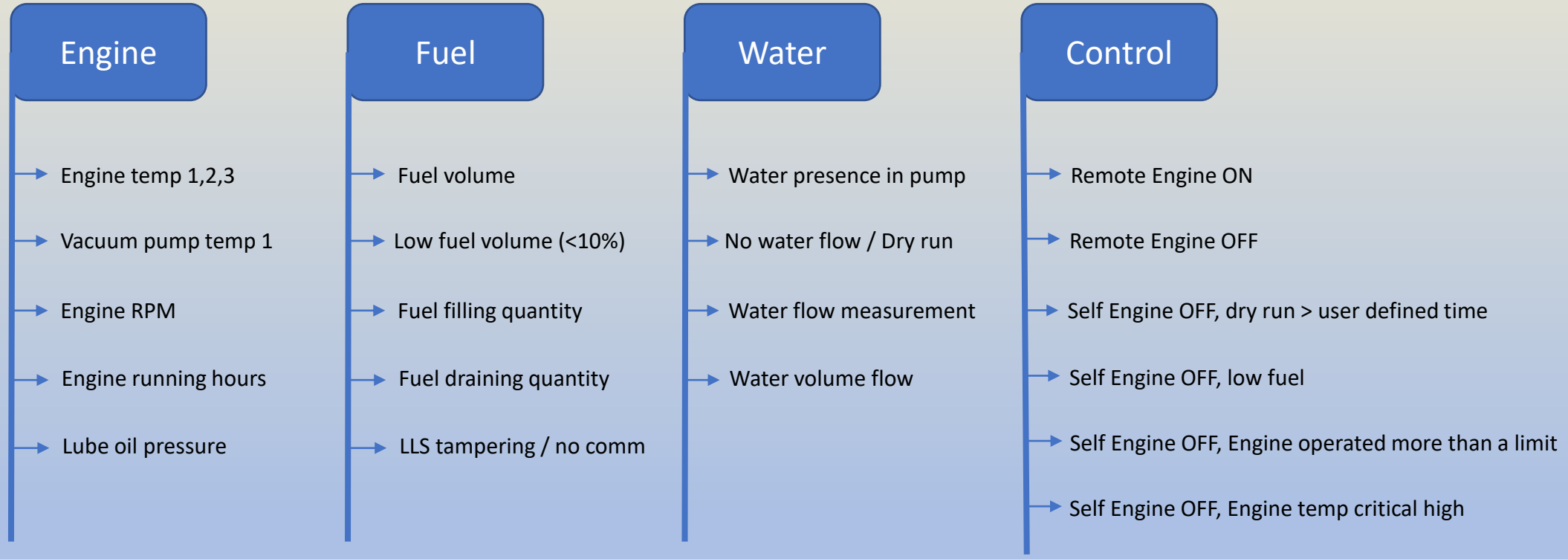


Solenoid valve





Parameters to monitor & Control



Appendix: Parameters to monitor & Control

Engine

Engine temp 1,2,3 - Continuous monitoring of engine temperature. Alert the customer when temp exceeds more than maximum limit.
Vacuum pump temp 1 - Continuous monitoring of vacuum temperature. Alert the customer when temp exceeds more than maximum limit.
Engine RPM - Continuous monitoring of engine revolutions. Min Revolutions, Max revolutions, time stamps
Engine running hours - Total run hours for a duration or user selected period
Lube oil pressure - Continuous monitoring of lube oil pressure

Fuel

Fuel volume - Measurement of exact volume in real time
Low fuel volume <10% - Measure the low level of volume in the tank and alert / take action on the event
Fuel filling quantity - Volume of fuel filled in the tank
Fuel draining quantity - Volume of fuel drained from the tank
LLS tampering / No communication - Fuel level sensor connection tampering / no communication of LLS data

Water

Water presence in pump - Identify and monitor water flow during the pump ON period
No water flow / Dry run - No water flowing in the pump body
Water flow - Continuous measurement of water flow
Water flow volume - Total run hours for a duration or user selected period

Control

Remote Engine ON - Turn on the engine remotely
Remote Engine OFF - Turn off the engine remotely
Self Engine OFF, dry run > user defined time - Turning off the engine when fuel pump is running dry.
Self Engine OFF, low fuel - Turning off the engine when fuel is running low.
Self Engine OFF, Engine operated more than a limit - Turning off the engine when it runs more that a certain time limit.
Self Engine OFF, Engine temp critical high - Turning off the engine when engine running with a high temperature.

Thank you!

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