



# CHANGE THE WORLD OF DIGGING

The QSC locking system becomes the cost-free standard on engcon tiltrotators from October 1st, 2020

**engcon**<sup>®</sup>

# NEW STANDARD FOR QUICK HITCH LOCKS UNDER THE TILTROTATOR!



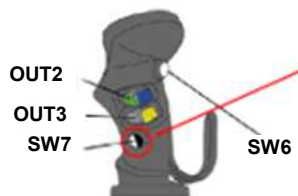
**QSC** - Quick Hitch Standard Control  
Standardized Locking System

# WHAT'S CHANGING?

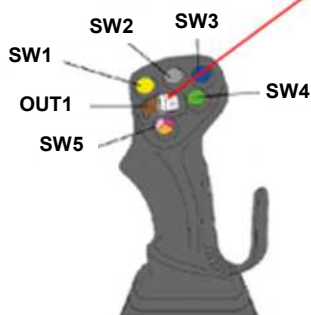
## Current



1. Activate the quick hitch lock switch.  
(Tilt function on the right lever thumb roller still works)



2. Push button LD3 (SW7) on the left lever (Tilt function on the right lever thumb roller is blocked)



3. Pull the reel RA1 (OUT1) in one direction to open the attachment, pull the roller in the opposite direction and it closes.

## New Standard



Standardized locking system

**EASY TO SEE AND USER-FRIENDLY!**

## WHY?

- Standardizes operation – equally regardless of the make and model of excavator
- Lock panel with "self-guidance" where the right button lights up.
- Meets all current and future requirements of current standards for safe quick hitches.
- Increased safety when changing tools with ground pressure sensor – the bucket lock cannot be opened with the bucket hanging in the air.
- Visual and audible warning system that alerts with sound and light when connected
- No need to interfere with the machine manufacturer's locking function for the machine hitch.

## ADDED VALUE

- Free of charge under all engcon tiltrotators regardless of quick hitch.
  - *We ship everything required for the installation of locking function under the tiltrotator*
- Standardized locking procedure reduces the risk of dangerous mistakes.
- Increased safety with ground pressure sensor
- Increased functionality during the lock/open sequence. (Tilt/rotation)
- Lower cost for those who want the machine hitch connected in the same way.
- Additional safety features that limit the machine are available as an optional extra.

# FAST AND SAFE OPERATION



**1** Activate the system

**2** Place the bucket/tool on the ground until the symbol is extinguished

**3** Open the quick hitch lock(s)  
• *Disconnect and change tool*

**4** Close the quick hitch lock

**5** *Disable machine limiter  
(Optional)*

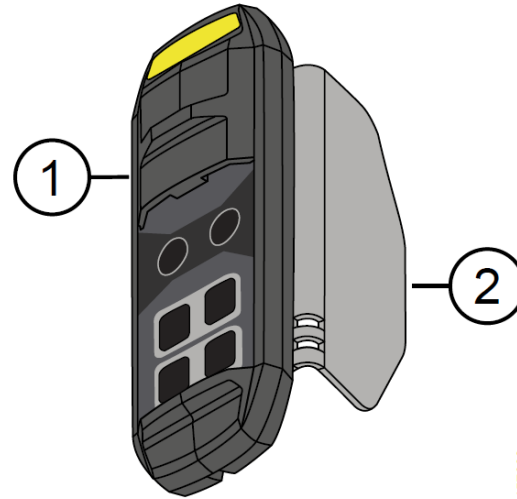
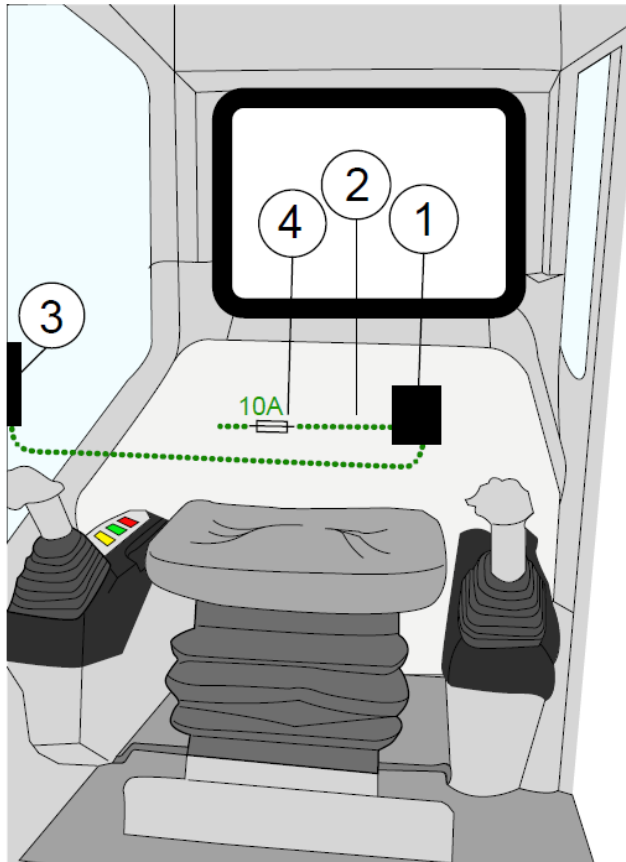
# INDICATORS DURING LOCK SEQUENCE



Ground pressure sensor  
(extinguished on ground contact  
= ok to unlock quick hitch lock)

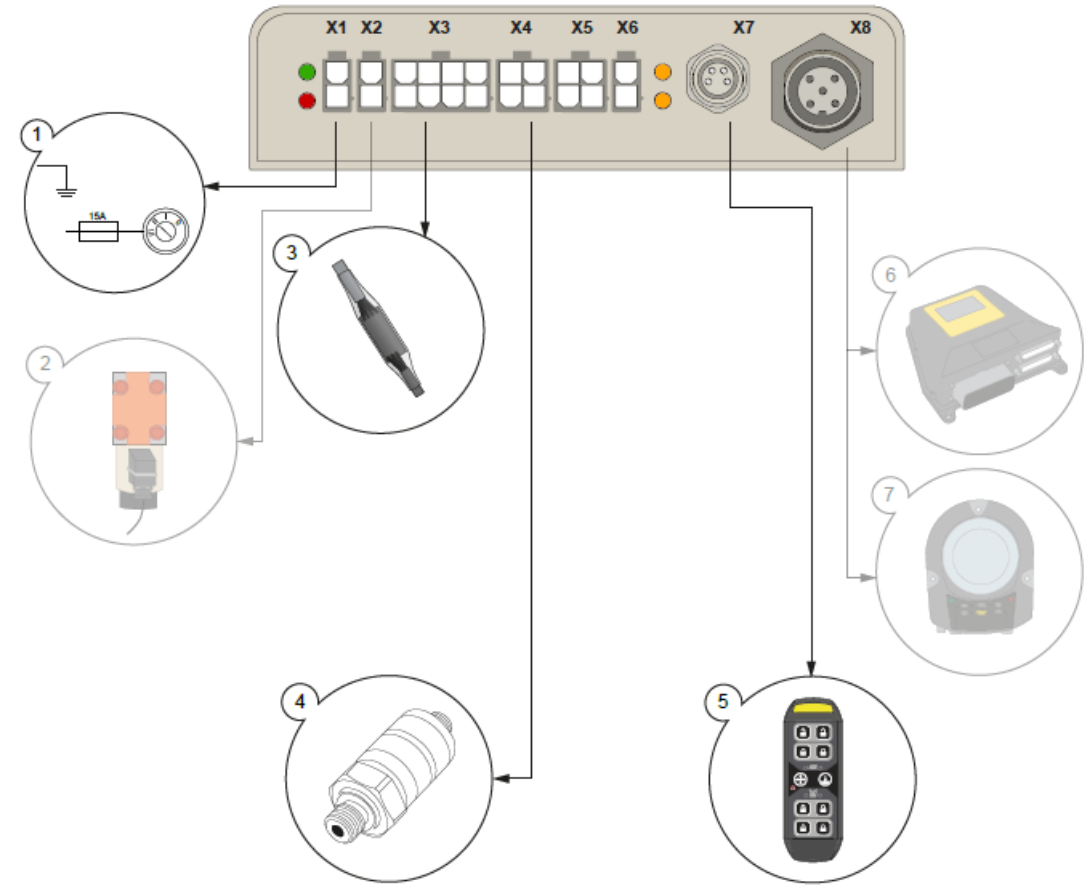
Sensors tool shafts  
front/rear (Applies to Q-  
Safe. For other mounts,  
contact engcon)

# ASSEMBLY



## 4.1.2. Connect cabling to the QCM electronics module

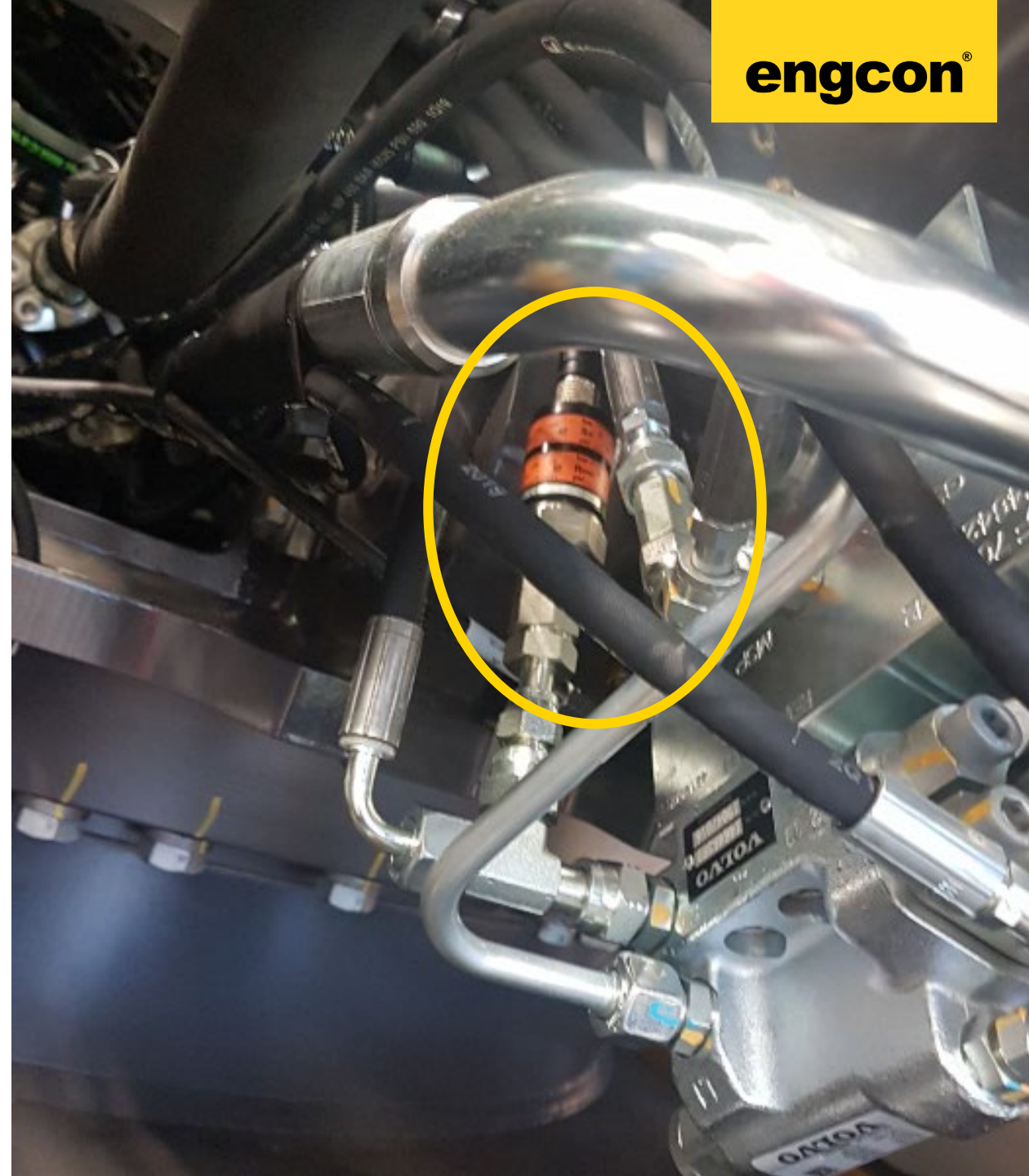
### 4.1.2.1. Overview - Connection of cables in electronics module





## INSTALLATION GROUND PRESSURE SENSOR

- Installed with T-connector or directly in the valve block. (in closed socket protected for hose breakage)
- Easy sensor calibration
- Withstands high pressure



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