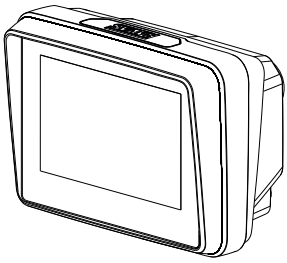
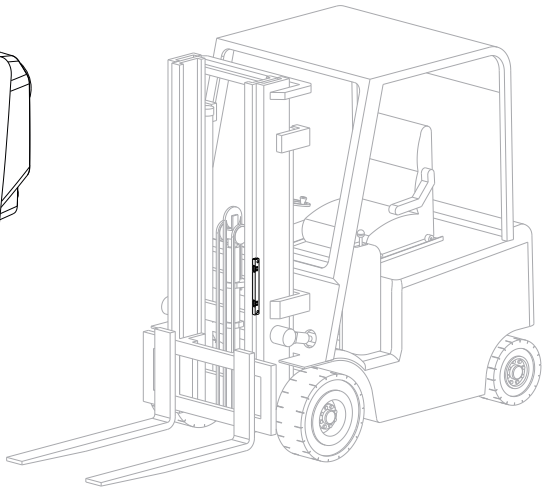
RAVAS

INSTALLATION MANUAL
RCS Hy-Q-52





Rev. 20210614

PLEASE RETAIN THESE ASSEMBLY INSTRUCTIONS FOR FUTURE REFERENCE
If you have any queries concerning the duration and terms of the guarantee, please contact your supplier. We would also refer you to our General Sale and Supply Conditions, which are available on request.

The manufacturer accepts no liability for any damage or injury caused by failure to follow these instructions, or from negligent operation or assembly, even if this is not expressly stated in this instruction manual.
In light of our policy of continuous improvement, it is possible that details of the product may differ from those described in this manual. For this reason, these instructions should only be treated as guidelines for the installation of the relevant product. This manual has been compiled with all due care, but the manufacturer cannot be held responsible for any consequences of errors. All rights are reserved and no part of this manual may be reproduced in any way.

We would like to inform you about the fact that this RAVAS product is 100% recyclable on the basis that the parts are processed and disposed off in the right manner.
More information can be found on our website: www.ravas.com

Table of Contents

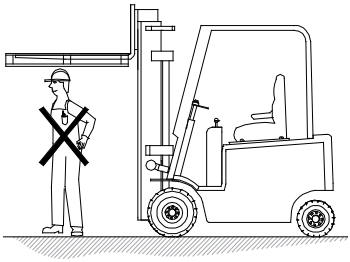
1. Introduction

This manual describes the installation of the RCS Hy-Q-52. Read this manual carefully. The installer must be informed of the contents of this manual. Follow the contents of the manual precisely. Always do things in the correct order. This manual should be kept in a dry and safe place. In case of damage or loss the user may request a new copy of the manual from RAVAS.

2. Warning & Safety measures

When installing the RCS HY-Q-52, please carefully observe the instructions and guidelines contained in this manual. Always perform each step in sequence. If any of the instructions are not clear, please contact RAVAS.

- The installation of the RCS Hy-Q-52 should only be performed by an acknowledged electro and hydraulic technical installer.
- Possible failures to the equipment must be communicated to your installer.
- The equipment should be checked annually by your installer.
- Always follow the safety measures concerning the forklift - or stacker truck accurately.



Should you have any further questions after reading this manual then you can contact us at:

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3. Before the installation

Before you start the installation, check the following points on the forklift truck:

3.1 Capacity of the forklift truck

The RCS Hy-Q-52 can be installed on forklift trucks with a capacity of maximum 99 ton.

3.2 Maximum pressure in the hydraulic system

The RCS Hy-Q-52 will operate optimally at an oil pressure up to 350 bar.

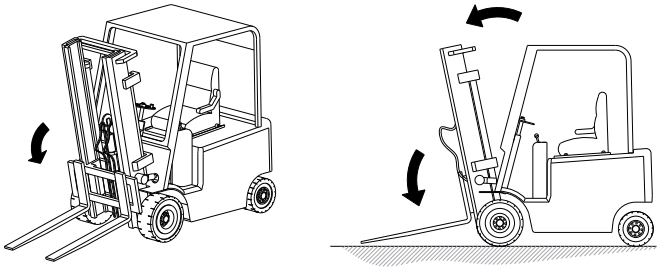
3.3 Battery voltage of the forklift truck

The most common voltages for forklift trucks are 12, 24, 48 and 80 VDC. The RCS Hy-Q-52 operates on 12 Vdc and always has a DC-DC power converter built in, which allows 9-100 V DC input.

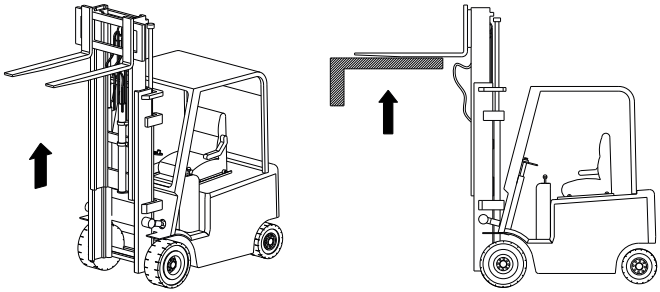
3.4 Making the hydraulic system pressure free

Before installation of the RCS Hy-Q-52 the hydraulic system of the forklift truck must be pressure free. There are two ways to do this:

Option 1: Place the forks on the ground in their lowest position and make the hydraulic system pressure free, by tilting the mast forwards. Be sure the chain is slack!



Option 2: Lift the forks and position them on top of a supporting surface. Make the hydraulic system pressure free, by lowering the lifting cylinder into its lowest position. Be sure the chain is slack!

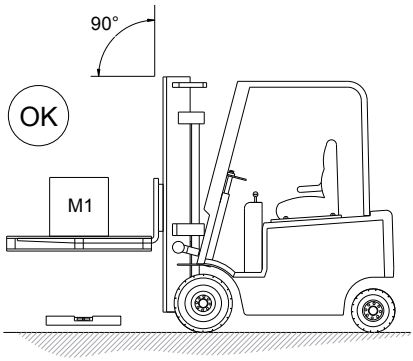


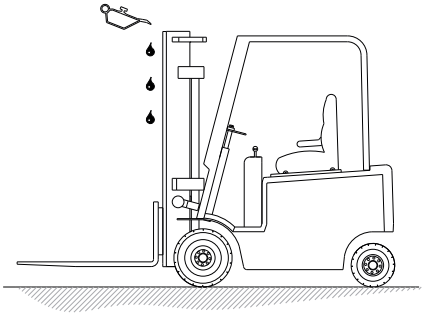
3.5 The condition of mechanical components of the forklift truck

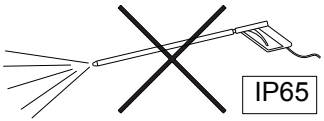
Find a suitable position for the indicator:

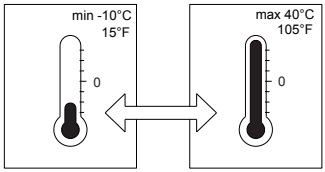
After installation of the RCS Hy-Q-52 system on the forklift truck, the weighing system is part of the truck. In particular the mechanical parts of the forklift truck, such as the mast, mast roles and bearings, will influence the accuracy of the weightings. For this reason it is important that these components are in good condition:

- no local wear in the mast of the forklift truck
- clean the system
- good lubrication of the mast and chains
- regular maintenance so that the condition of the system is constant
- when lifting and lowering the forks no whistling and cracking sounds from the mast









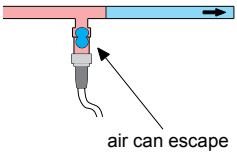
4. Installation

4.1 Hydraulics: Installing the T-piece

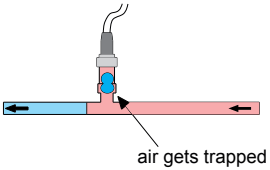
We recommend that the installation of the sensor in the hydraulic system of the forklift is performed by an authorized lift truck dealer.

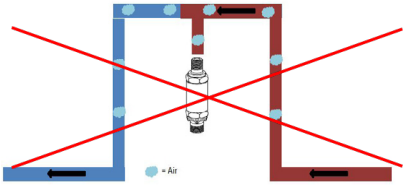
- Ensure that there is no pressure on the main cylinder line.
- The sensor is mounted with a T-piece in the high-pressure hose, between the valves and the main lifting cylinder.
- The connection on the sensor is G¼" BSP male.
- Protect the cable from moving, sharp or warm parts with the supplied protective cover.
- Mount the T-piece so that the sensor and the cable connection are pointing downwards. This will prevent air getting into the sensor.

OK



WRONG

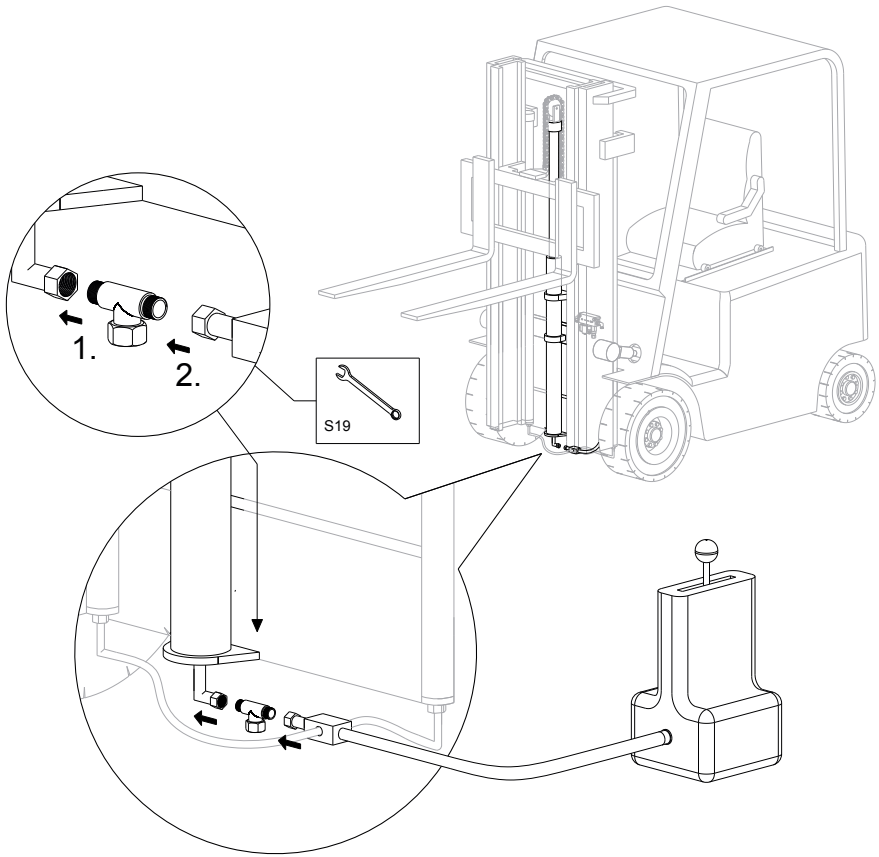




Choose a place where you can mount the sensor:

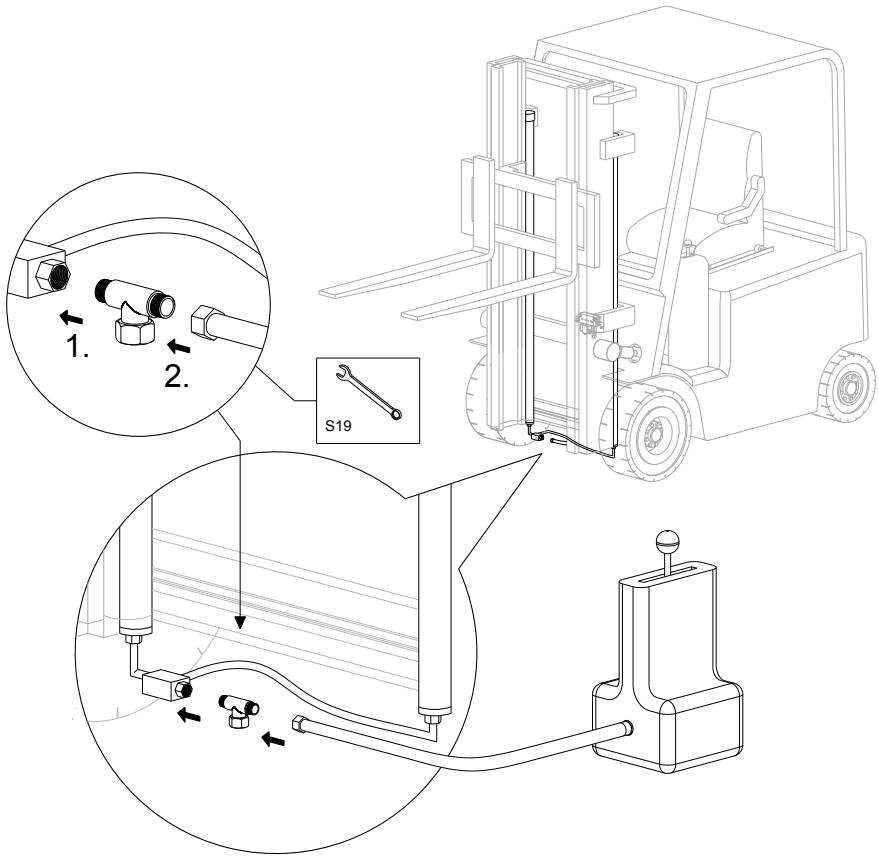
- Mount the sensor in the pressure hose that steers the main lifting cylinder. In most cases there is one cylinder which moves the carriage plate. The sensor is mounted as close to the cylinder as possible.
- If the pressure hose splits to multiple cylinders, the sensor has to be mounted before the split.
- Do not mount the sensor too close to the engine. Large differences in temperature can influence the accuracy of the system.
- If the truck is used intensively, a piece of pipe or hose of ± 50 cm can be mounted between the sensor and the T-piece. The sensor is sensitive to temperature differences. If the moving oil becomes warm, the standing oil in this pipe or hose will remain cool and the sensor will not be effected by temperature differences.
- Place the sensor close to the cylinder. There is often more room there and it is easier to reach.
- Choose, if possible, a place to mount the sensor where there are the least steering and safety valves between the sensor and the cylinder.

Type A: 1 central cylinder



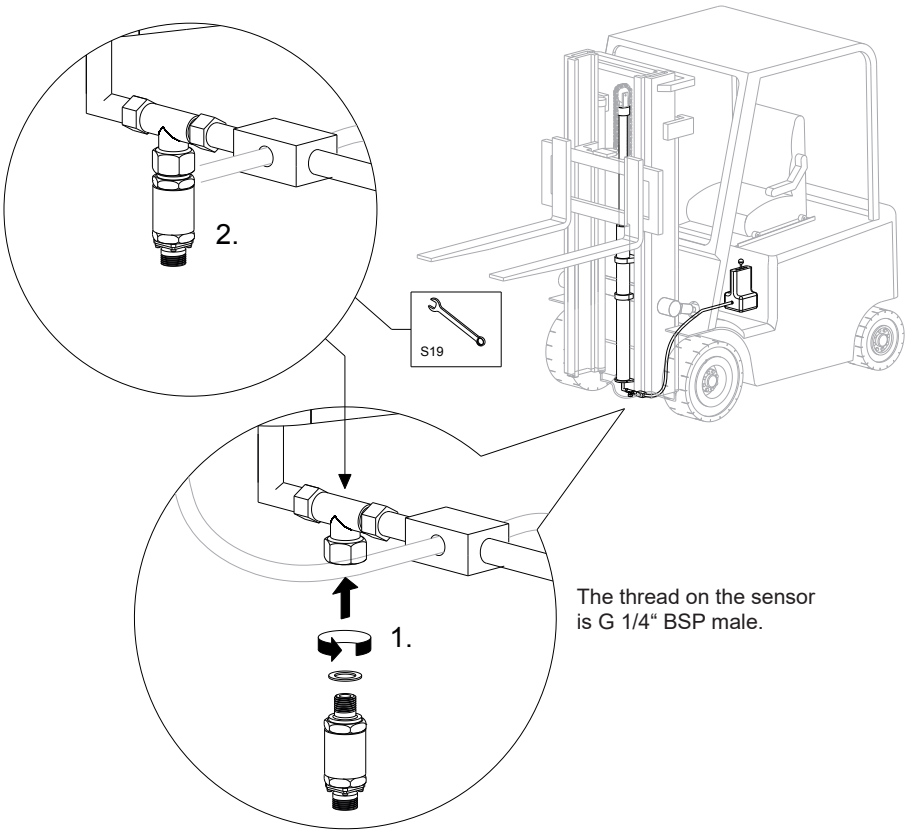
Mount the T-piece into the delivery line of the truck near the cylinder for the diversion of the pressure to the RCS Hy-Q-52.

Type B: 2 cylinders on both sides



Mount the T-piece into the delivery line of the truck near the cylinder for the diversion of the pressure to the RCS Hy-Q-52.

4.2 Hydraulics: Mounting the oil pressure sensor



The thread on the sensor is G 1/4“ BSP male.

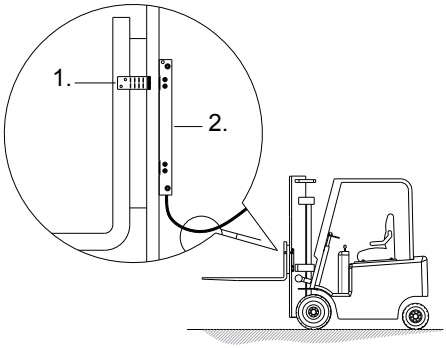
4.3 Mechanics: Installing the position switch holder

The position switch holder and magnet contain the following parts:

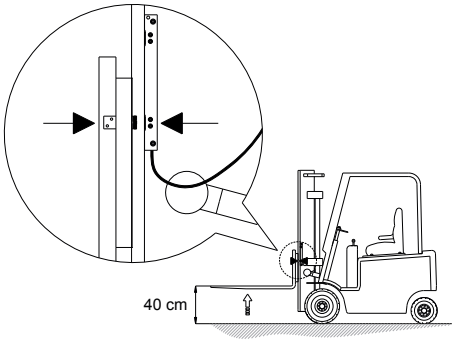
1. 1 magnet, to be installed on the carriage plate (moving part)

2. 1 profile with 2 reed switches inside, to be installed on the mast (fixed part)

The distance between the magnet and the switches should be in the range of 5-20mm.



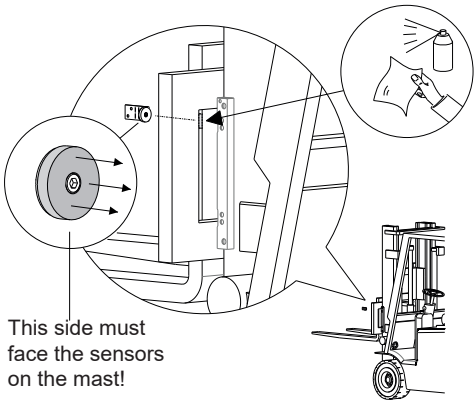
The magnet and lowest switch should face each other when the forks are about 40cm from the ground.



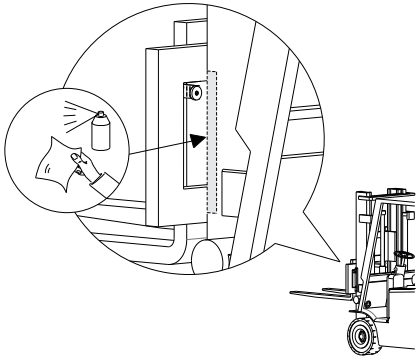
Place the magnet at a location that is free from obstacles all the way up and down the mast.

Degrease the area on the carriage plate where the magnet will be mounted.

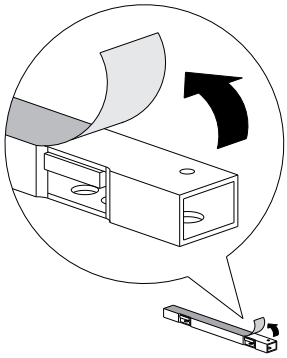
The magnet holder can be installed on the carriage plate with the self-adhesive tape or bolts.



Degrease the mast were the switches will be placed.

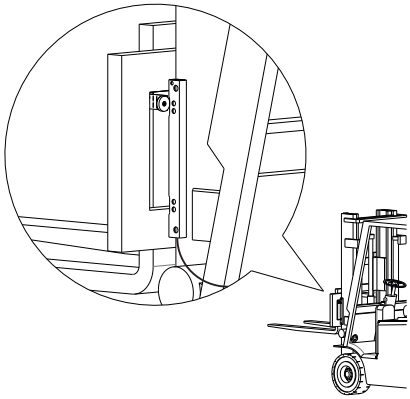


The holder with switches inside can be mounted on the mast with self-adhesive tape or bolts.

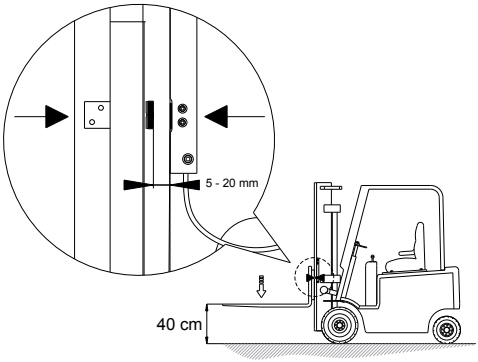


Mount the holder with switches on the outside of the mast.

Note: The cable outlet must be positioned downwards.

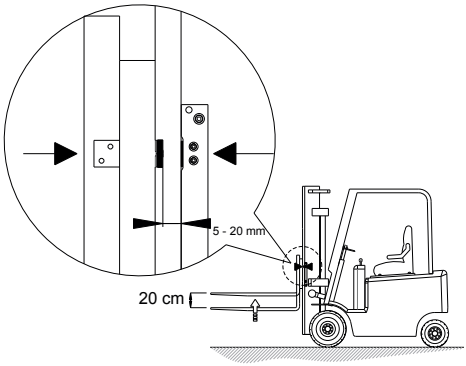


Align the lowest switch of the holder with the magnet; there should be 5-20mm clearance in between.



Lift the forks 20 cm, so the magnet is positioned in front of the upper switch.

Align the top switch with the magnet; there should be 5-20mm clearance in between and fix the holder.

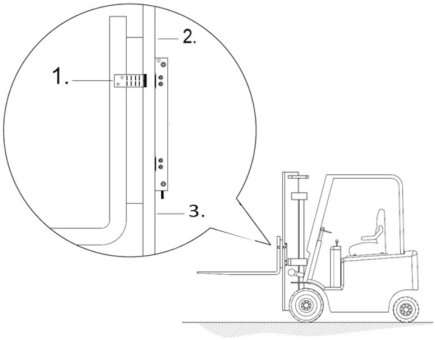


4.3.a Mechanics: placing stickers to mark the reference height - optional

Three yellow triangular stickers are supplied with this kit. Two of these stickers are placed on the mast and one on the carriage plate. The arrow stickers are used to mark the reference height.

Note:

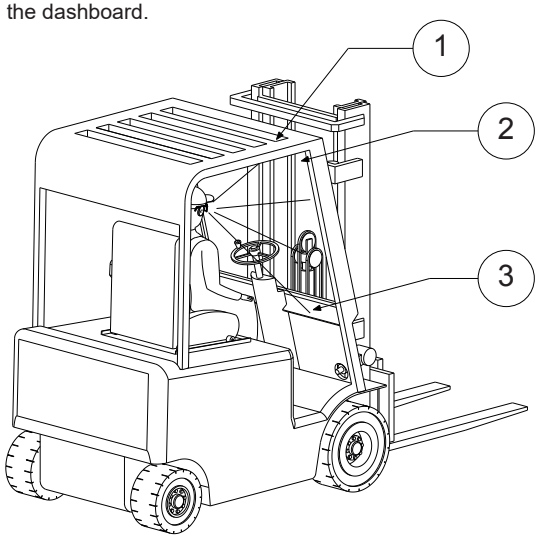
- Make sure the driver can see all three stickers;
- The sticker on the carriage plate must be placed in the proximity of the magnet (1);
- The top sticker on the mast must be placed 10cm above the beam with the switches (2);
- The bottom sticker must be placed 10cm below the beam with the switches (3).

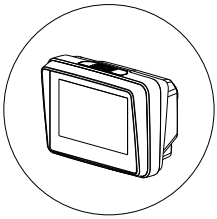


4.4 Mechanics: Installing the indicator

Position of the indicator:

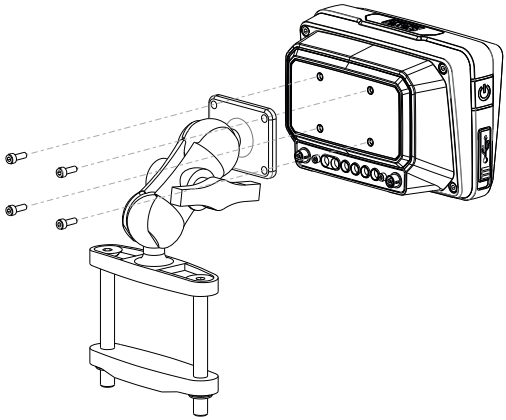
1. at the cabin's roof.
2. on the right side of the cabin, mounted onto a side-rail.
3. on the dashboard.





The indicator should be easy to reach and read!

Installing the indicator



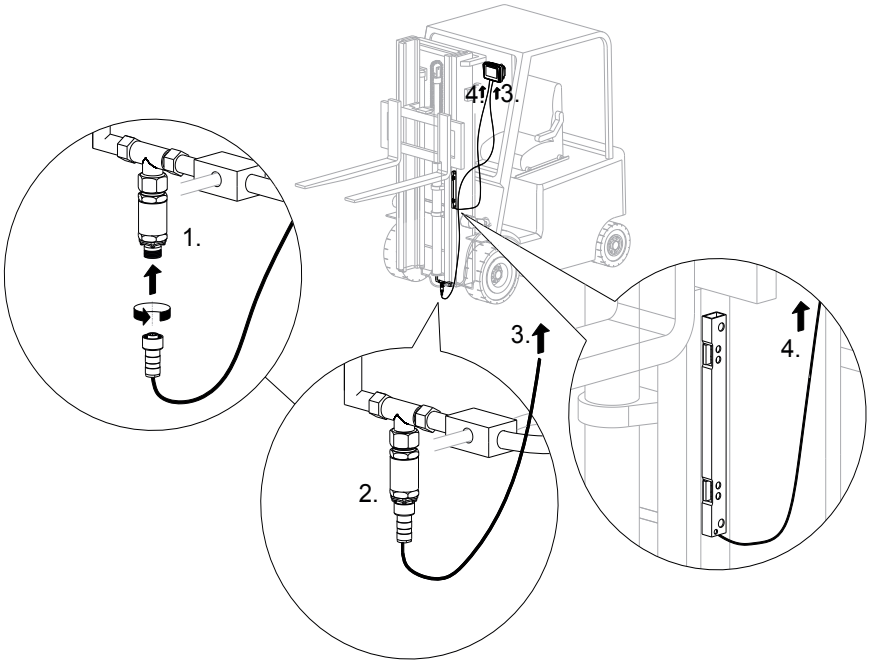
4.5 Electronics: Mounting the cables

Two cables should be mounted:
- cable for the oil pressure sensor
- cable for the position switches

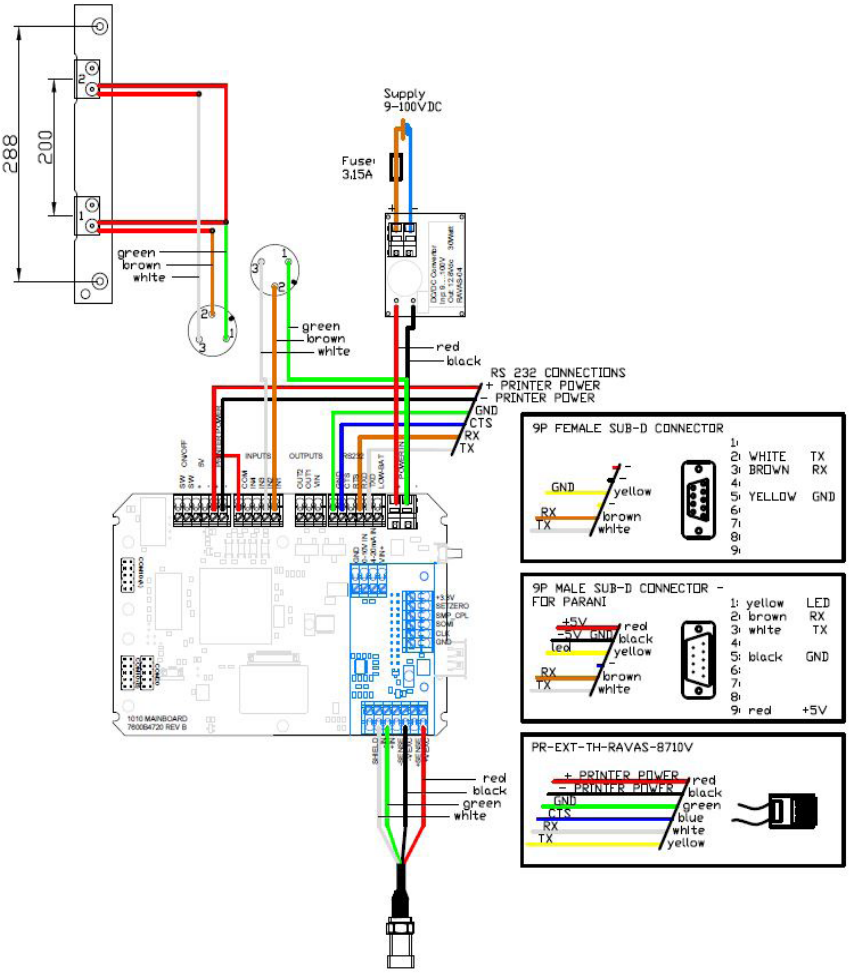
Keep the cable out of sight as much as possible, this keeps the system tidy and it minimizes the possibility of damage to the cable.

It may be necessary to thread the cable through small openings, openings through which the 18mm connector does not fit. In that case disconnect the cable at the indicator.

The system is supplied with a protective cover for the cable. This can be used when:
- the cable is near parts of the lift truck that become hot;
- the cable is mounted near moving parts.

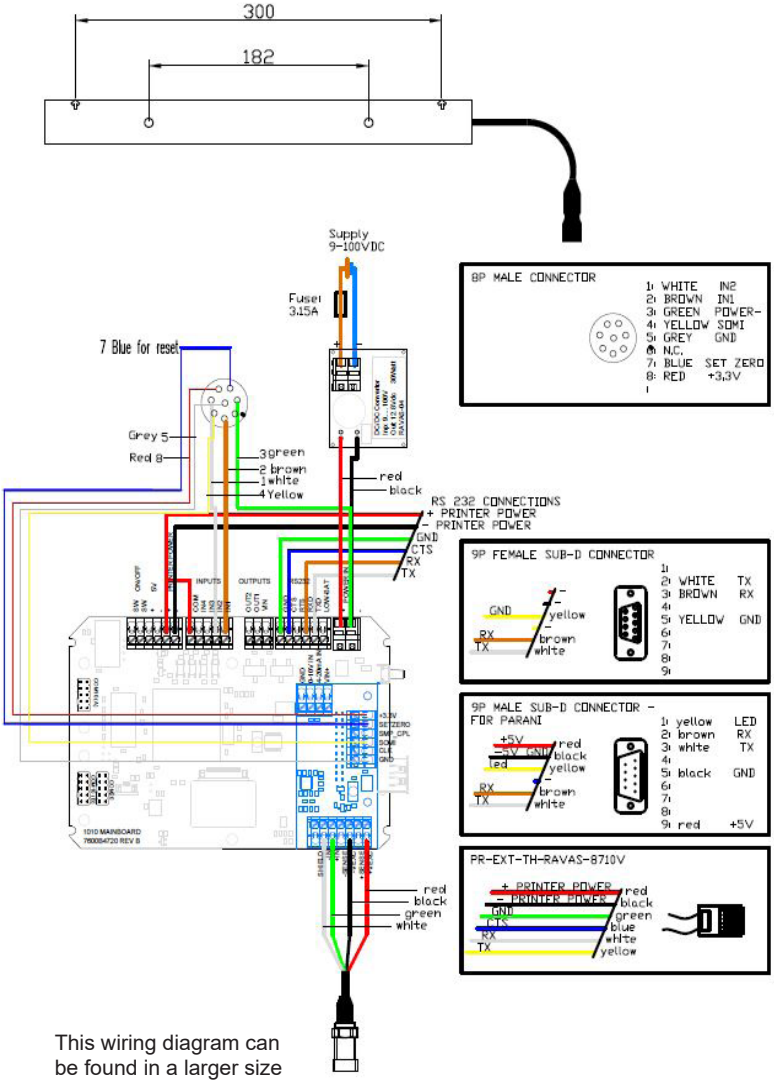


4.6 Electronics: Wiring diagram aluminium position switch holder with sensor distance 200mm



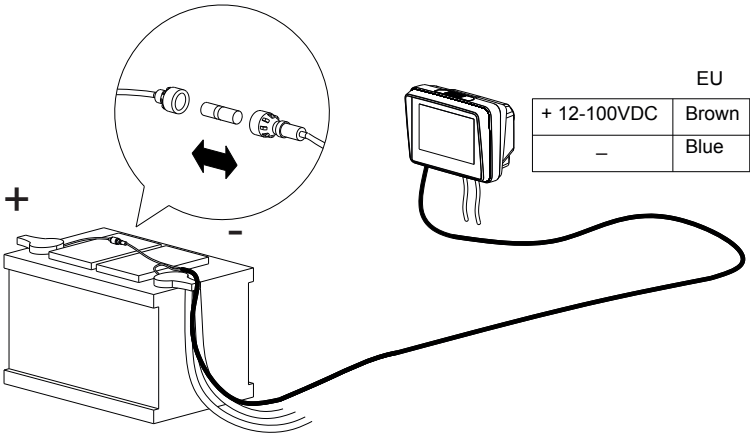
This wiring diagram can be found in a larger size on MyRAVAS.com.

4.6 Electronics: Wiring diagram speed and level switch holder with sensor distance 300mm



This wiring diagram can be found in a larger size on MyRAVAS.com.

4.7 Electronics: Connecting the power supply cable



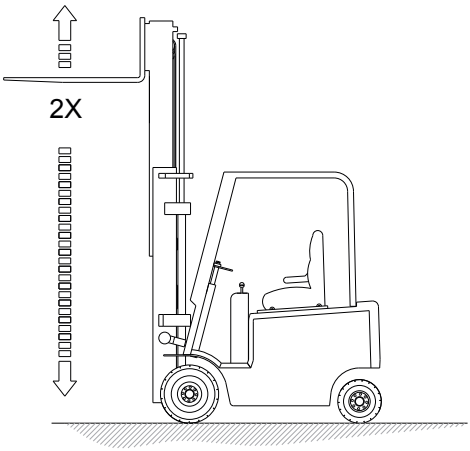
	EU	US
+ 12-100VDC	Brown	Red
–	Blue	Black

Arrange power supply from the truck

The standard RCS Hy-Q-52 indicator is equipped with an internal 12-100VDC power regulator so can be connected to a 12 to 100VDC power supply only.

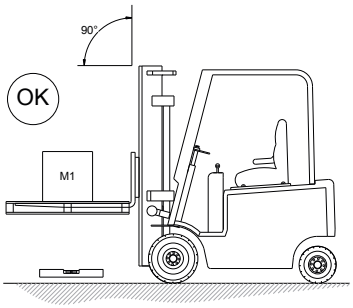
4.8 Remove any air from the hydraulic system

Bring the forks to maximum height twice to remove any remaining air from the hydraulic system.

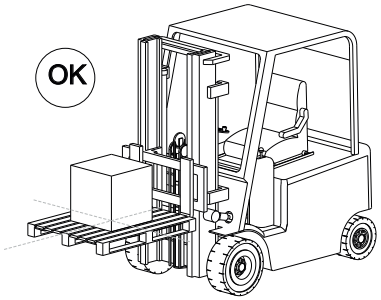


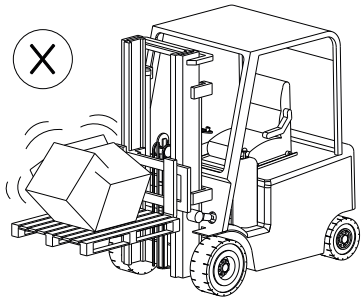
5. Calibration

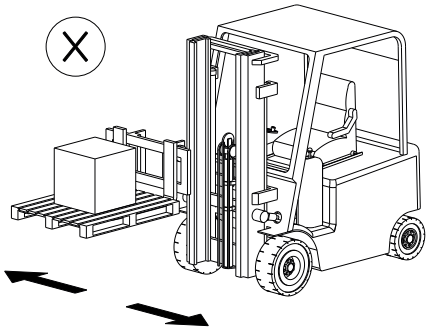
5.1 Preparing for calibration

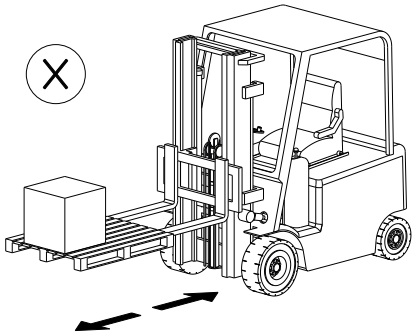


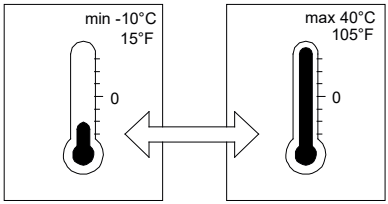
Recommended calibration weight:
M1 = +/- 2/3 of the truck's lifting capacity
EXAMPLE : 2.2t truck => M1 = 1500 kg



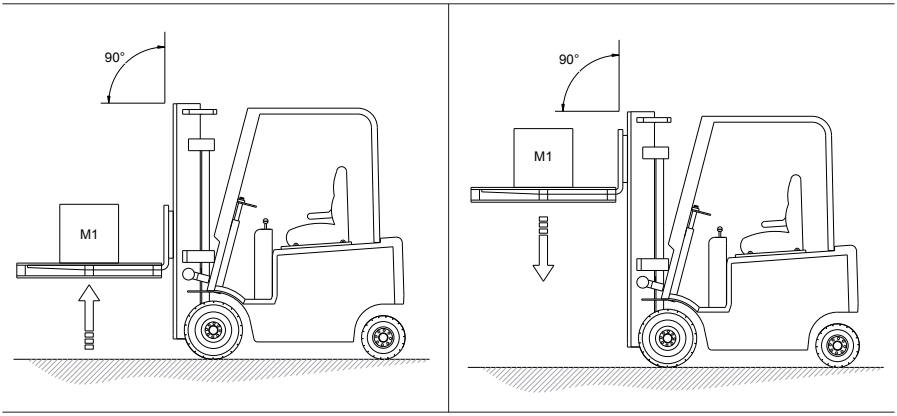








5.2 Bringing the forklift truck to operating temperature



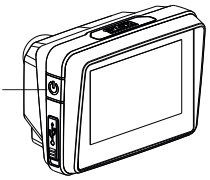
5.3 Operating key functions of indicator

5.4 Display Functions

kg	Display shows weight in kilograms
lb	Display shows weight in pounds
NET	Display shows net weight
TARE	Display shows tare weight
M	Display shows subtotal memory active
Too fast	Move forks slower
Too slow	Move forks faster
Try constant speed	Operate the forks with a more constant speed
Zero out of range	Make sure the truck is unloaded while setting a new zero
Out of level	Make sure the mast is vertical
Bad calibration	no calibration has been done

5.5 Start calibration procedure: first go into the service menu

1



Switch on the indicator by pressing the On/Off button.

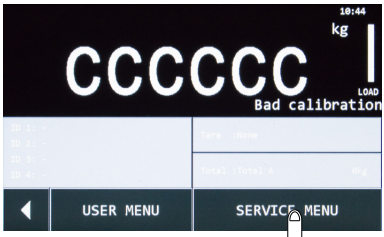
2

Press the arrow down 2 times to scroll through the buttons.

3

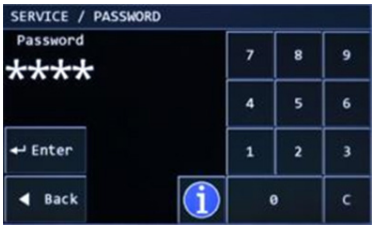
Press the settings symbol.

4



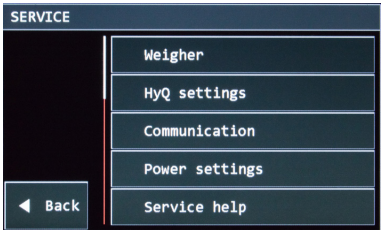
Now press 'Service Menu'.

5



Enter the password (5220) and confirm with enter.

6

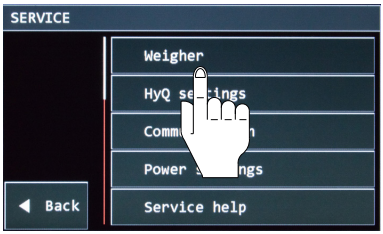


You are now in the service menu.

5.6 Set the scale capacity

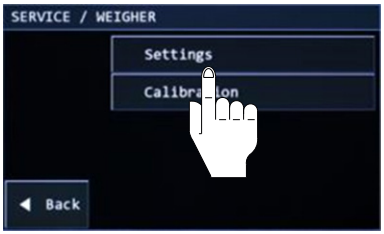
It is important to set the scale capacity according to your forklift truck's capacity because some other parameters like zero tracking and display unit will change accordingly.

1



Select 'Weigher' in the service menu.

2



Select 'Settings'.

3

Select 'Scale capacity'.

4

Select the correct scale capacity (as shown on the indicator's machine sticker) and confirm with enter.

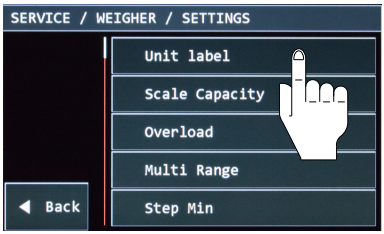
Truck capacity.

<1.000 kg	select 1.000
1.001-2.500 kg	select 2.500
2.501-5.000kg	select 5.000
5.001-10.000kg	select 10.000
10.001-20.000kg	select 20.000
20.001-50.000kg	select 50.000
50.001-100.000kg	select 100.000

5.7 Change unit label

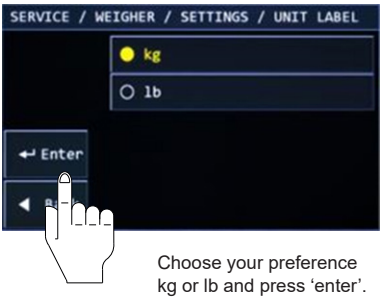
Note: The calibration value does not change accordingly. For lb to be displayed you need to perform a new calibration.

1



Select ‘unit label’.

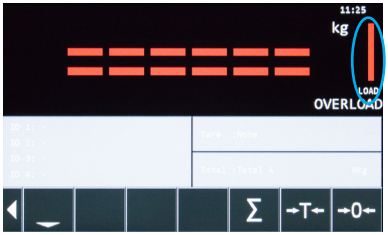
2



Choose your preference kg or lb and press ‘enter’.

5.8 Set the overload value

1



The overload setting determines when the load bar in the display shows overload.

2

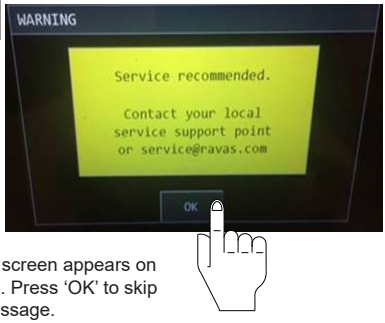
Go to ‘weigher / settings’ and select overload.
Enter your truck’s capacity here.
You can find it on the trucks load diagram.

Note: If the option ‘overload buzzer’ is included in the system, this setting is also the set point for the buzzer.

5.9 Setting the service date

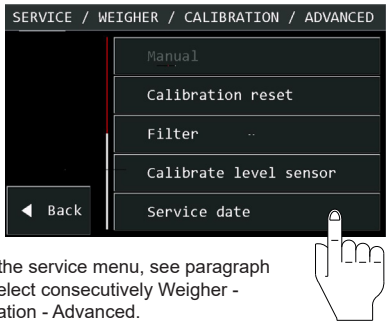
In the very rare situation that the indicator is not used for more than a year or if the calibration is done with the wrong time and date, you might get a yellow display on the indicator and the message that service is recommended. However, under these circumstances service is not needed. To restore or to avoid this message you need to switch the service date off.

1



Yellow screen appears on startup. Press ‘OK’ to skip the message.

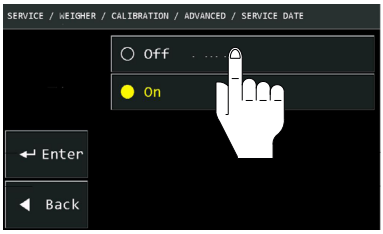
2



Enter the service menu, see paragraph 1.4. Select consecutively Weigher - Calibration - Advanced.

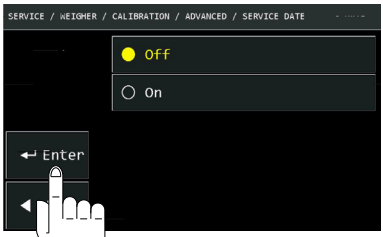
Now select ‘Service date’.

3



The Service date is set to ‘On’. Press ‘Off’.

4



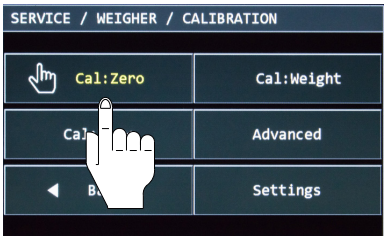
Confirm with Enter.

5.10 Go into the calibration menu and perform a zero calibration

1

Go to ‘service menu / weigher’ and select calibration.

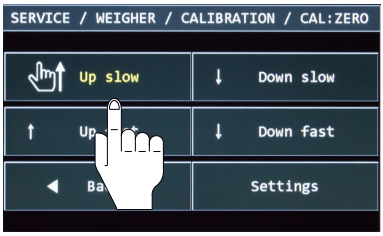
2



Calibrate as suggested by the yellow hand.
Start with ‘Cal: Zero’.

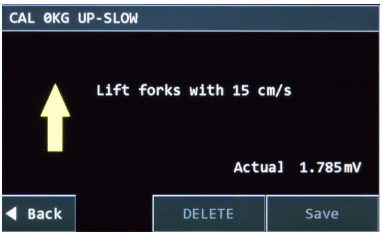
If a calibration is already done (a green tick in front of a Cal point indicates this) and you wish to remove that, press ‘Advanced ‘, and select ‘Calibration reset’. Confirm by pressing ’OK’.

3



ZERO CALIBRATION – SLOW:
Place empty forks in lowest position and press the key that is suggested by the hand.

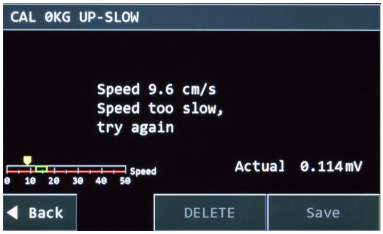
4



Lift the forks with constant speed until the yellow arrow up disappears.

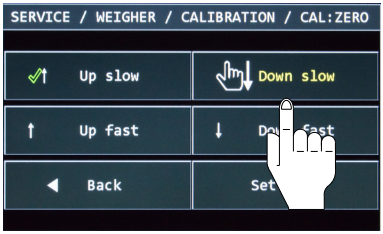
Try to approach a speed of 15 cm/s.
*12.5cm/s-17.5cm/s is acceptable **
*(*see note on next page)*

5



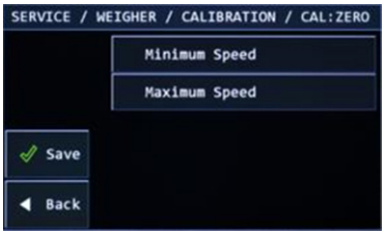
The indicator will show the speed and sensor signal.
- If speed was to fast or too slow, lower the forks and try again, no buttons have to be operated.
- If speed was OK, press ‘Save’.

6

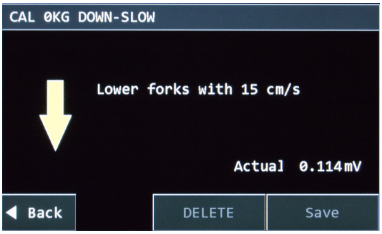


The first point is saved and the yellow ‘Down slow’ and the hand suggest which point to do next.

** NOTE: Plus or minus 2.5cm/s is acceptable.*
If this is technically impossible with the truck, then change the parameters for minimum speed and maximum speed first. You can do this via the 'settings' button.
After this you have to do the calibration points that are already done again.

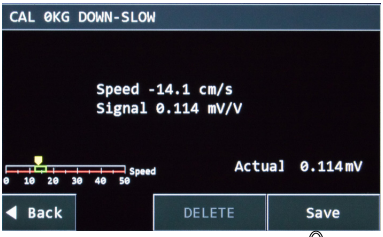


7



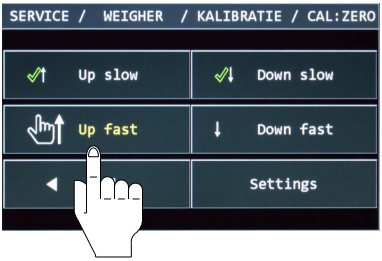
Lower the forks with +/- 15 cm/s.

8



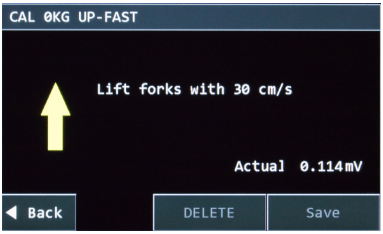
If the speed was within the green range, press 'Save'.

9



Continue with the next suggested calibration point: 'Up fast'.

10

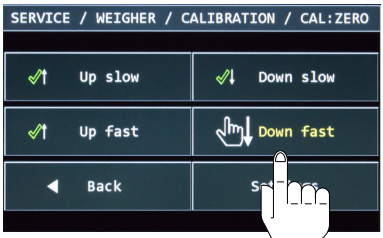


Lift the forks with +/- 30 cm/s.

11

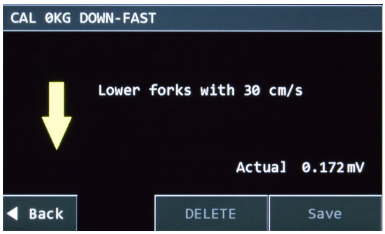
If the calibrated speed is correct press ‘Save’.

12



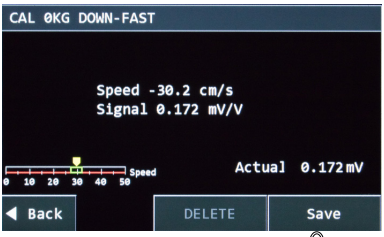
Continue with the next suggested calibration point: ‘Down fast’.

13



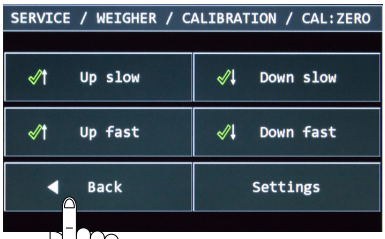
Lower the forks with +/- 30 cm/s.

14



If the speed was within the green range, press ‘Save’.

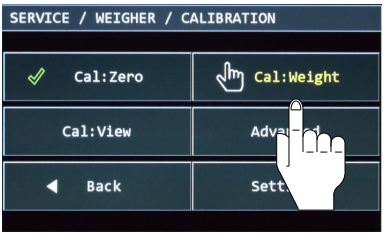
15



All zero calibration points are done and marked with a green tick.

Press ‘Back’.

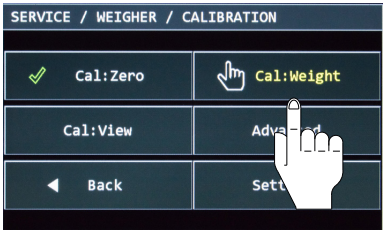
16



Continue with the weight calibration. See instructions in the next section.

5.11 Execute weight calibration: slow & fast speed

1



Select ‘Cal:weight’.

2

Enter the weight of the load you are going to use to calibrate and confirm with ‘Enter’.

3

Pick up the load before you start the calibration. Select ‘Up slow’.

4

Repeat steps 4 t/m 16 of the zero calibration instructions.

5

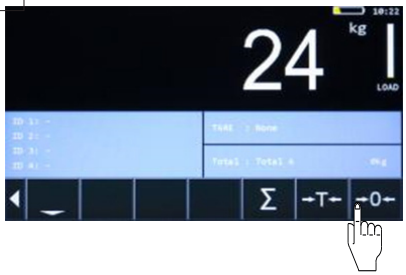
When the weight calibration is completed press ‘Back’ and return to the weighing mode.

6

Before testing the weighing function, check the zero point first.
After the calibration it sometimes doesn’t show zero.

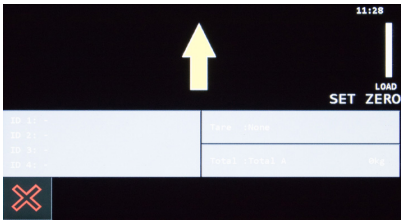
5.12 Set zero

1



When the screen doesn't show zero, set zero manually. Press the zero button.

2



Follow the instructions on the display.

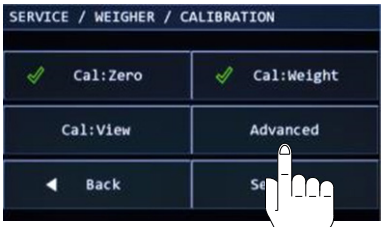
5.13 Delete a calibration point

Only do this if you wish to re-calibrate.

1

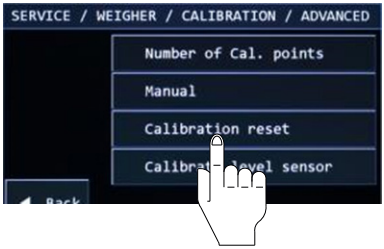
Select the 'Calibration' menu.

2



Select 'Advanced'.

3



Select 'Calibration reset'.

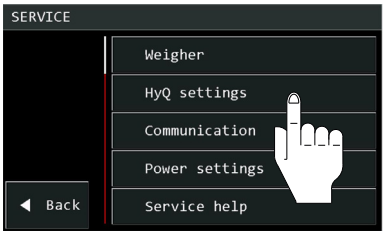
4

Confirm with 'OK'.

5.14 Level switch

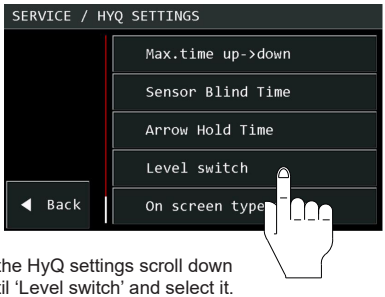
5.14.1 Activate level switch

1



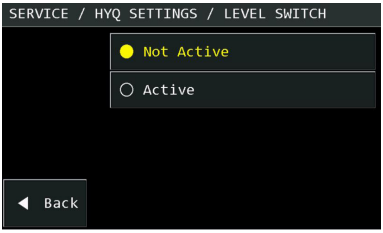
In the service menu select ‘HyQ settings’.

2



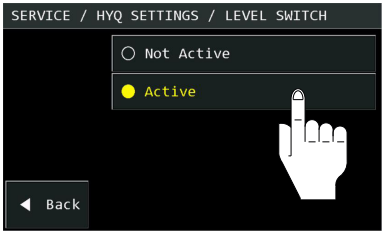
In the HyQ settings scroll down until ‘Level switch’ and select it.

3



The level switch is standard set to ‘Not Active’.

4

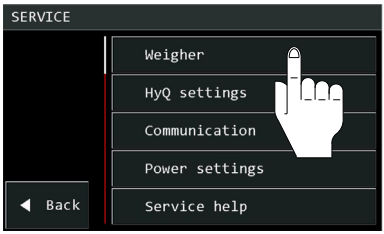


Select ‘Active’ to activate the level switch.

Then press ‘Back’ 3x to return to the weighing mode.

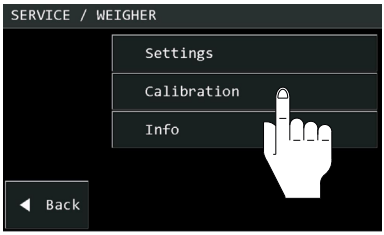
5.14.2 Calibrate level switch

1



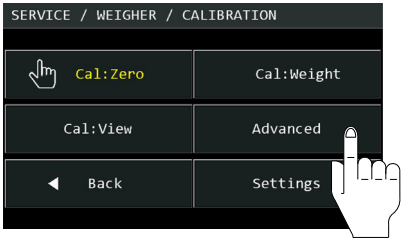
In the service menu select ‘Weigher’.

2



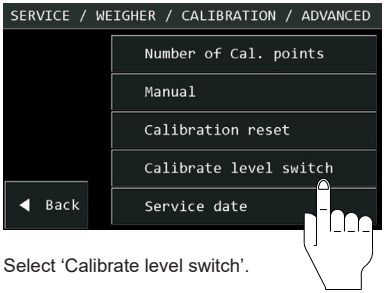
Then select ‘Calibration’.

3



Select ‘Advanced’.

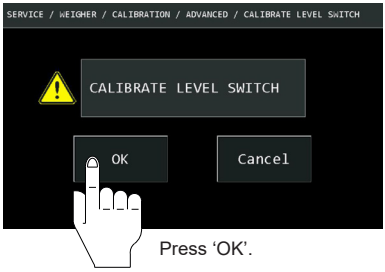
4



Select ‘Calibrate level switch’.

5

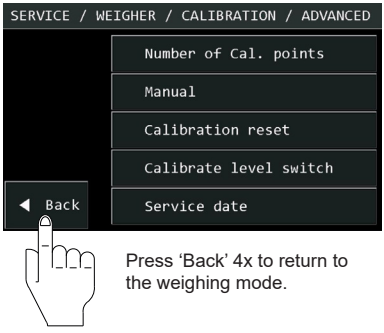
NOTE: First place the mast of the lift truck in vertical position!



Press ‘OK’.

The vertical ‘level’ (position) is being saved.

6



Press ‘Back’ 4x to return to the weighing mode.

6. Parameter settings

6.1 Remarks

Go into the parameter settings via the Service menu, as described in Chapter 5.5, steps 1-7.

For the list with parameter settings see the next pages.

Before using the RCS Hy-Q-52 indicator, ensure that the parameters have been set correctly.

6.2 Parameter settings

Parameter settings for RCS Hy-Q Touch	16-10-2018			RCS Hy-Q
Main menu	**Sub menus**	**Description**	**Settings**	**Default**
User menu				
	Set Time/Date			
	Time	Set time	24:24:24	-
	Date	Set date	31-12-1999	-
	Display settings			
	Brightness	Adjust display brightnes	0-150%	100%
	Power save	Switch power save mode on/off	Off/On	off
	Keys visible	Switch on/off key functions on the display in weighing mode	Off/On	on
	Language	Adjust user language	English/German/French/Dutch	English
	Decimal point	Select Decimal Point	./,	.
	Date format	Set date/ time notation	EU/ US	EU
	Button Functions			
	Printer			
	Function		Print/ Add/ Send/ Alibi	Print
	Location		None/ Row1-3/ Button 1/6	None
	Send WiFi			
	Function		Print/ Add/ Send/ Alibi	Send
	Location		None/ Row1-3/ Button 1/6	None
	Summing			
	Function		Print/ Add/ Send/ Alibi	Add to total
	Location		None/ Row1-3/ Button 1/6	Row1/Button 4
	Tare			
	Function		-	-
	Location		None/ Row1-3/ Button 1/6	Row1/Button 5
	Zero			
	Function		-	-
	Location		None/ Row1-3/ Button 1/6	Row1/Button 6
	Weighing mode			
	easy / accurate	Change weighing mode (sets meassurements accuracy)	Easy/Accurate	Easy
	Service help			
	Check calibration (read only)	Only to view the calibration values (for service purposes)	-	-
	Alibi	View alibi NR	-	-
	Event log	Error and overload logging database	-	-
	Debug	Screen on whitch sensor inputs can be checked	-	-
Service menu	**(Secured with password) (5220)**			
	Weigher			
	Settings (HyQ Scale Type)			
	Unit label	Select scale unit	kg/ lb	kg
	Scale Capacity (Custom& preset onder 1 parameter)	Set scale capacity (automatically sets other scale parameters)	Custom/1000/2500/5000/10000/20000/50000/100000	2500
	Overload	Set maximum capacity of truck (-> sets overload bar)	1-100000 kg	2500 kg
	Multi Range (was multi range)	Set divisions	0-5000 e	0 e
	Step min	Set low graduation step	1/2/5/10/20/50/100/200/500/1000	2
	Step max	Set high graduation step	1/2/5/10/20/50/100/200/500/1000	5
	Auto zero Correction	Set percentage of zero correction	0-100 %	30%
	Auto zero range	Set range for automatic zero correction	0-1000kg	1Bkg
	Zero Supressing	Set zero suppressing	0-100 e	1 e
	Ribble Analyse	Setpoint for 'try constant speed' warning	0-100%	5%
	Ribble minimum	Setpoint for 'try constant speed' warning	0,000-1,000mV	0,100mV
	Gravity Original	Gravitation value of position at calibration	9,000-10,000 m/s2	9,812 m/s2
	Gravity Final	Gravitation value of position for use of scale	9,000-10,000 m/s2	9,812 m/s2

↘ Calibration							
	↘ Cal: Zero			Calibrate zero			
		↘ Slow Up		Calibrate zero, forks direction slow up			15cm/s
		↘ Slow Down		Calibrate zero, forks direction slow down			15cm/s
		↘ Fast Up		Calibrate zero, forks direction fast up			30cm/s
		↘ Fast Down		Calibrate zero, forks direction fast down			30cm/s
		↘ Settings					
			↘ Minimum Speed		1-100		15
			↘ Maximum Speed		1-100		30
	↘ Cal: Weight			Calibrate Span			
		↘ Cal point 1					
			↘ Slow Up	Calibrate span, forks direction slow up			15cm/s
			↘ Slow Down	Calibrate span, forks direction slow down			15cm/s
			↘ Fast Up	Calibrate span, forks direction fast up			30cm/s
			↘ Fast Down	Calibrate span, forks direction fast down			30cm/s
		↘ Settings					
			↘ Minimum Speed		1-100		15
			↘ Maximum Speed		1-100		30
			↘ Reference weight	Change the calibrations reference weight			
	↘ Cal: View						
				View calibration points	-		-
	↘ Advanced						
		↘ Number of Cal. Points		Set number of calibration points	1/2/3/4		1
		↘ Manual		Manually adjust calibration points	-		-
		↘ Calibration reset		Reset all calibration points and settings to factory defaults	OK/ Cancel		-
		↘ Calibrate level sensor		Perform a new level sensor neutral position calibration	OK/ Cancel		-
	↘ Settings						
		↘ Minimum Speed			1-100		15
		↘ Maximum Speed			1-100		30
↘ **Hy-Q settings**							
↘ Sensor Distance				Set distance between reed switches	50-1000 mm		200 mm
↘ Speed Calibration				Activate speed calibration	Off/On		On
↘ Minimum Speed				Set minimum speed for correct weighing (blue screen)	1-100 cm/s		15 cm/s
↘ Maximum Speed				Set maximum speed for correct weighing (blue screen)	1-100 cm/s		30 cm/s
↘ Easy Bandwith				Set optional bandwidth for easy mode	1-20 cm/s		5 cm/s
↘ Weighing direction				Set direction of measurement, easy mode needs to be active to use this.	Up/Down/Up or down/Up and down		Up and down
↘ Max. time Up -> Down				Max time between Up and Down Weighing	0-20 s		15 s
↘ Sensor Blind Time				Time that multiple inputs of one mast sensor are being ignored	0.0-5.0 s		1.5 s
↘ Arrow Hold Time				Time that the 'arrow up' keeps flashing after passing the upper sensor	0.0-5.0 s		1.0 s
↘ Level sensor							
	↘ Level Function			Set the correction sensor mode	Off/ Switch/ Correction		Off
	↘ Switch off angle			Set the switch off angle	0-10°		0
↘ On screen type plate				Enter a on screen type plate if preferred	-		-
↘ **Commuication**							
↘ Printer settings							
	↘ Line-feed			adjust line feet after print out	0-100		1
	↘ Header			Add header to print out	-		-
	↘ Footer			Add footer to print out	-		-

		↘ BLT 4,0 on-board							
			↘ Protocol				Set the operation protocol	PC	PC
			↘ Info				View BT status	-	-
		↘ RS232 on-board							
			↘ Protocol				Set the operation protocol	None/ PC/ Printer	Printer
			↘ Stopbits				Set number of stopbits	1/2	1
			↘ Databits				Set number of databits	7/8	8
			↘ Parity				Set parity	None/ Odd/ Even/ Mark/ Space	None
			↘ Baudrate				Set bautrate	1200/2400/4800/9600/19200/38400/57600/115200	9600
		↘ USB on-board							
			↘					-	
		↘ COM 10							
			↘ Harware				Select the installed hardware	None/ WiFi board	None
			↘ Port settings						
				↘ Protocol			Set the operation protocol	None/ ASCII/ Printer/ RDC	None
					↘ Scale id		Scale id which the indicator is known by in the RDC software	automatically according to Xpico board sn.	xxx
					↘ Mode Ack/Nack			off/ on	on
				↘ Stopbits			Set number of stopbits	1/2	1
				↘ Databits			Set number of databits	7/8	8
				↘ Parity			Set parity	None/Odd/Even/Mark/Space	None
				↘ Baudrate			Set bautrate	1200/2400/4800/9600/19200/38400/57600/115200	9600
		↘ COM 20							
			↘ Harware				Select the installed hardware	None/ WiFi board	None
			↘ Port settings						
				↘ Protocol			Set the operation protocol	None/ ASCII/ Printer/ RDC	None
					↘ Scale id		Scale id which the indicator is known by in the RDC software	automatically according to Xpico board sn.	xxx
					↘ Mode Ack/Nack			off/ on	on
				↘ Stopbits			Set number of stopbits	1/2	1
				↘ Databits			Set number of databits	7/8	8
				↘ Parity			Set parity	None/Odd/Even/Mark/Space	None
				↘ Baudrate			Set bautrate	1200/2400/4800/9600/19200/38400/57600/115200	9600
	↘ Power settings								
		↘ Power save mode							
			↘ Dim timer				Timer for screen dim function	0-3600 s	60
			↘ Sleep timer				Timer for indicator in sleep mode	0-3600 s	300
			↘ Deep sleep timer				Timer to set indicator in most energy efficient mode	0-1440 h	8
		↘ Power supply					Set the power supply source	Truck supply/ Li-ion 14,8V/ 12V/ 24V/ Custom	Truck supply
	↘ Service help								
		↘ Check calibration points (read only)					Only to view the calibration values (for service purposes)	-	-
		↘ Alibi					View alibi NR	-	-
		↘ Event log					Error and overload logging database	-	-
		↘ Debug mode					Screen on whitch sensor inputs can be checked	-	-
	↘ Reset								
		↘ Reset settings					Reset only the settings, calibration is kept in touch (not scale type software)		-
		↘ Reset Calibration					Reset only the calibration, settings are kept in touch	-	-
	↘ Scale type software						Select the scale type software:	Hy-Q/HPT	HyQ

7. RDC - data transfer using WiFi to PC/server using RAVAS RDC software

In ‘SERVICE’ / ‘COMMUNICATION’ / ‘COM10 ‘
Select ‘RDC’

- Mode ACK / NACK >>> should be ‘ON’
- Scale id >>> here you can enter a 3 digit PIN code

This PIN code is used as scale ID and will be used in the CSV file to determine which indicator has sent the data – please make sure you use a unique number
The RDC software will list this number and at the PC you can enter an alias for this scale nr. (for example: ‘Forklift 24’).

Note: make sure that your Xpico settings are correct!
In ‘Tunnel settings’ you need to enter the static IP address of the server and use port number 5555 – see also the Xpico240 or XpicoWi-Fi manual.