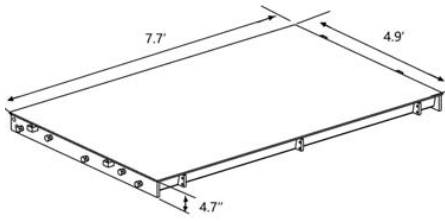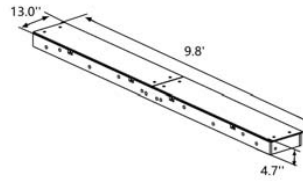# Installation Instruction for Cargo Scale 10'x10'-60,000 lb
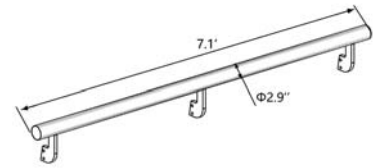
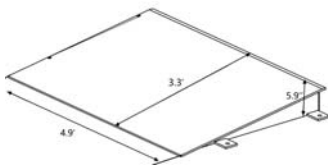## Scale Components Included in the Package (all parts are interchangeable)
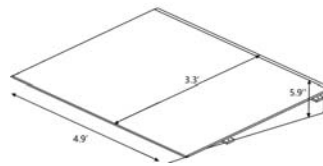
platform (2 pcs)
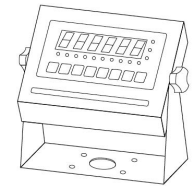
beam with top cover (2 pcs)

rail guards (2 pcs)

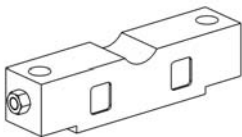ramp A (2pcs)

ramp B (2pcs)

indicator (1 pc)

junction box (1pc)

Interface cable for the indicator (1 pc)

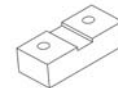## Load cell module Components (4 sets)

load cell
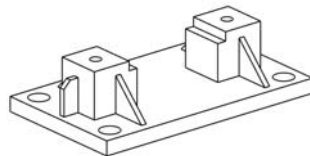
load cell module

bearing ring

steel block (2 pcs)

bolt for load cell module M16 x 75 mm (2 pcs)

Bolts details

1"-14 UNF eyebolt (4 pcs)

bolt for platform joint M24 x 70 mm (20 pcs)

bolt for rail guard M24 x 70 mm (12 pcs)

Stopper M20 x 70 mm (8 pcs)

Anchor Bolt M16 x 100 mm (28 pcs)

bolt for ramp (4 pcs)

All the accessories are in the beams.

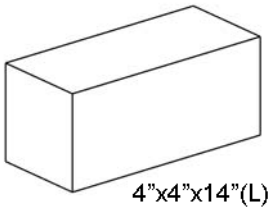## Tools Required for Installation

Forklift

Measuring Tape

Anchoring drill

Wood Blocks(4 pcs)
4"x4"x14"(L)

Wrench

Hexagonal Wrench

Hydraulic Jack

Screw Drivers
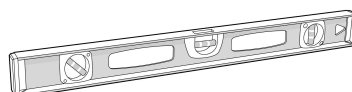
Hammer

Anchor bolts

Impact Drill or Socket Wrench

Crowbar

Chains with hooks (2pcs)

Level

Scale Installation

(1) Make sure the complete installation is done on a level ground.

(2) Place the two cross beams with forklift on two 4"x4" rectangular wood blocks and place the beams 93" apart in parallel.

Note: Place the blocks approx 2 ft from the end and make sure not to cover the holes.

93"

wood blocks

wood blocks

Do not block this part   wood blocks
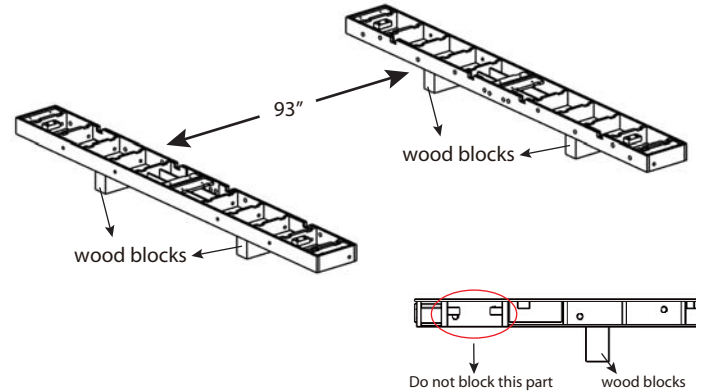
(3) Using forklift and chains, place one platform slowly between the 2 cross beams and fit the tongues on the side of the platform to the grooves on the beams.

Grooves for jointing platforms

eyebolts (included)

tongues for jointing the grooves on the beams
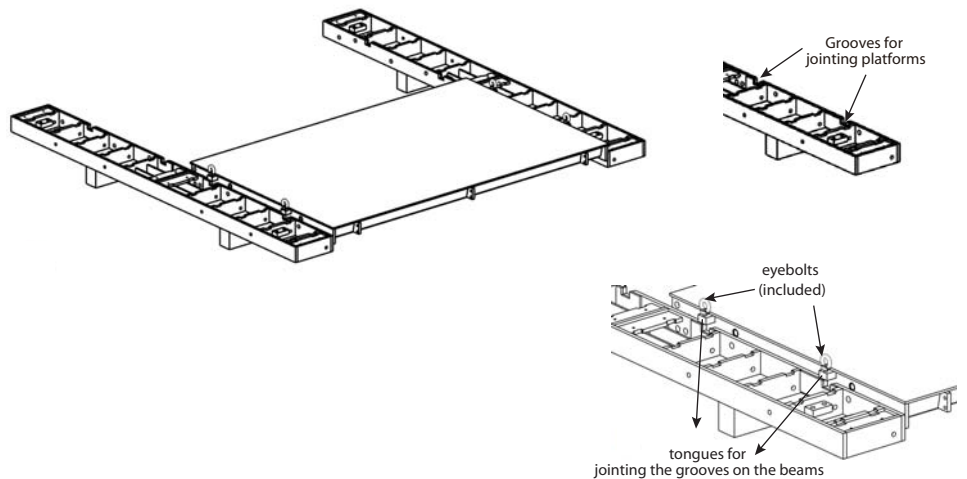
(4) Follow the same steps to install the second platform side by side.
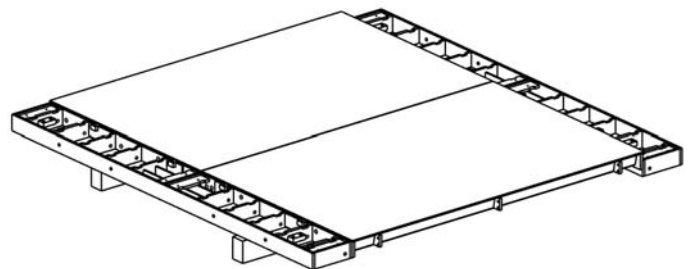
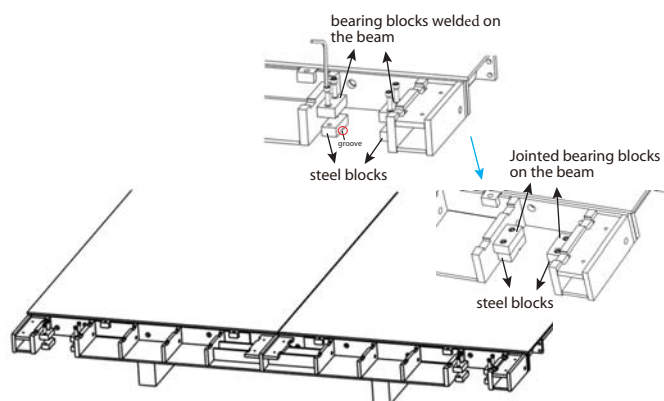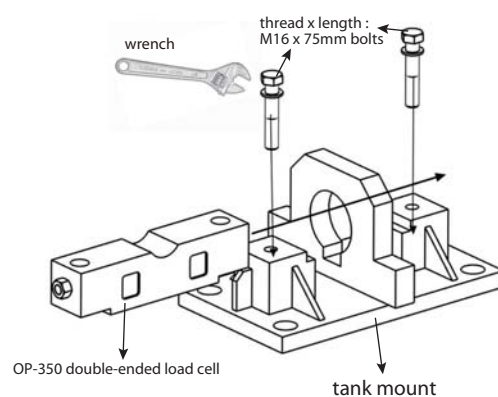**(5)** Screw in the steel blocks with M16 hexagonal wrench

Note : The groove on steel blocks facing down.

bearing blocks welded on the beam

groove

steel blocks

Jointed bearing blocks on the beam

steel blocks

OP-350 double-ended load cell tank mount

(6) Install the load cell mounts.
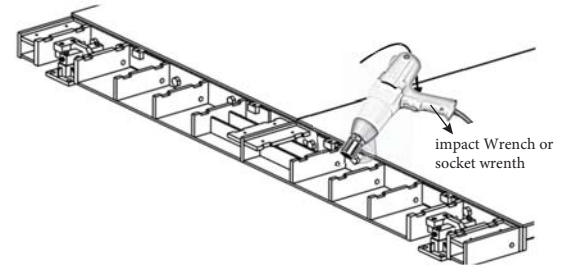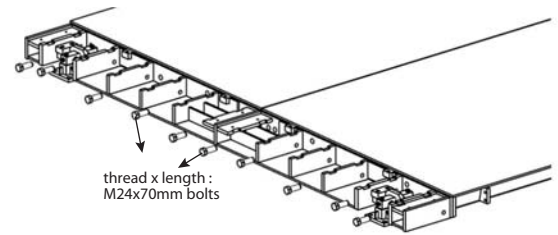
wrench

thread x length : M16 x 75mm bolts
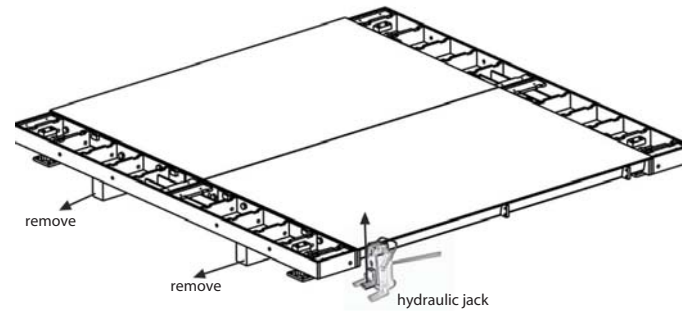
OP-350 double-ended load cell

tank mount

(7) Push the installed mount under the middle of the hole on the beam until the grooves on the steel blocks (installed in step 5) sit solid on the top of the mount

Hole

tank mount

PUSH

wood blocks

tank mount

PUSH

load cell position

4
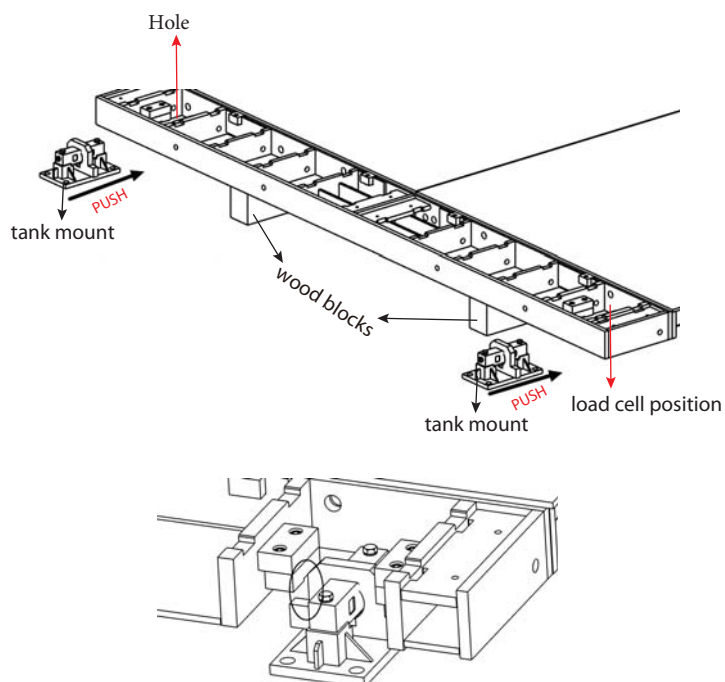
(8) Install all the bolts for the beams to be connected to the platforms

thread x length :
M24x70mm bolts

impact Wrench or
socket wrenth

(9) Lift the whole platform up with hydraulic jack and remove the wood blocks

remove

remove

hydraulic jack

(10) Install the rail guards

wrench

thread x length :
M12x70mm bolts

(11) Install the stoppers.
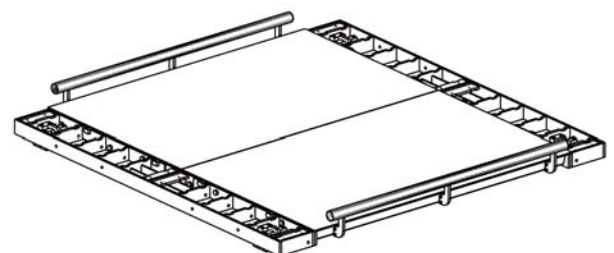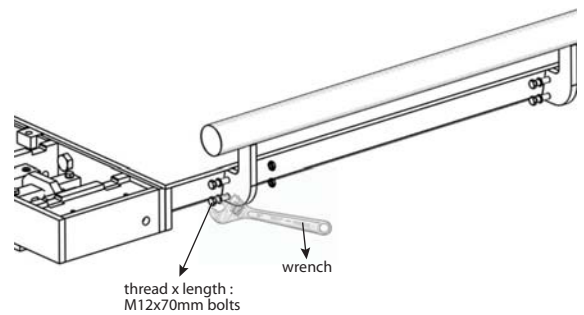
thread x length :
M20x70mm bolts
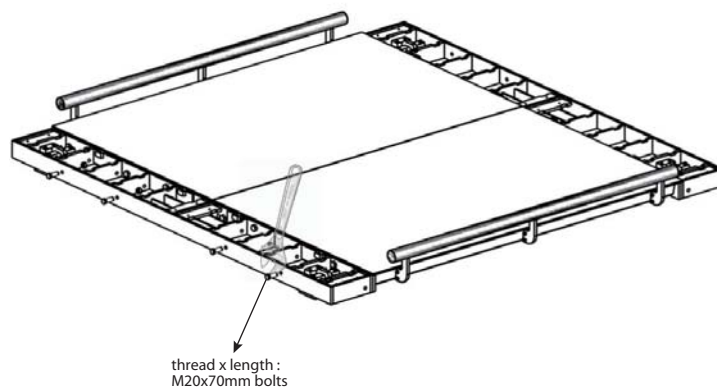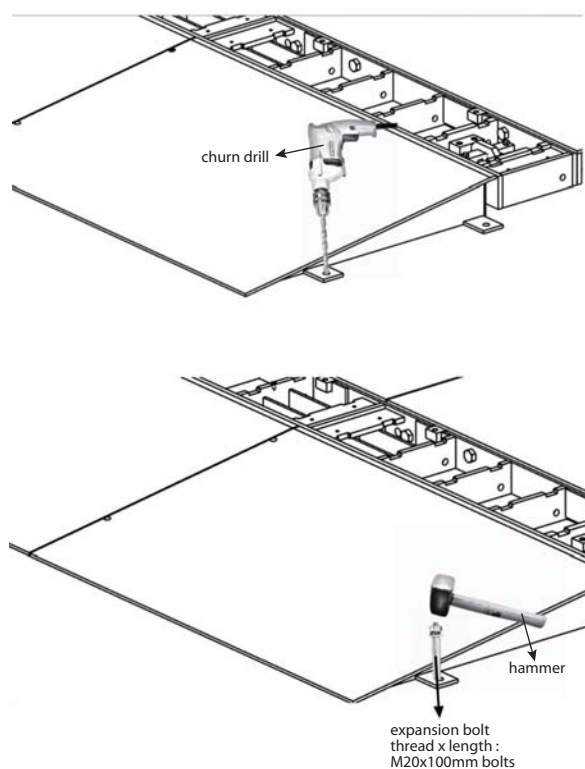
(12) Place ramp A on the left hand side of the beam, and ramp B on the right hand side until they match perfectly.
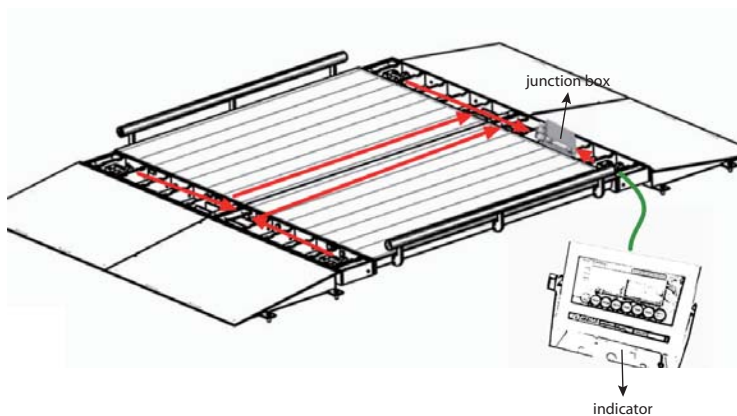Screw the bolts in between.

ramp A.

flat screwdriver

thread x length :
M8x50mm bolts

ramp B.
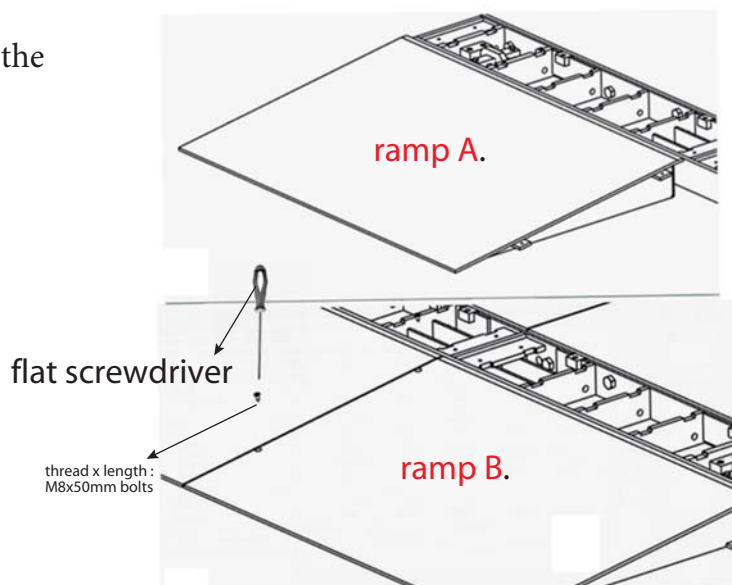
(13) Install the anchor bolts

churn drill

hammer

expansion bolt
thread x length :
M20x100mm bolts

6

(14) Run the load cell cables inside and beams and under the platforms as the red arrows direct.
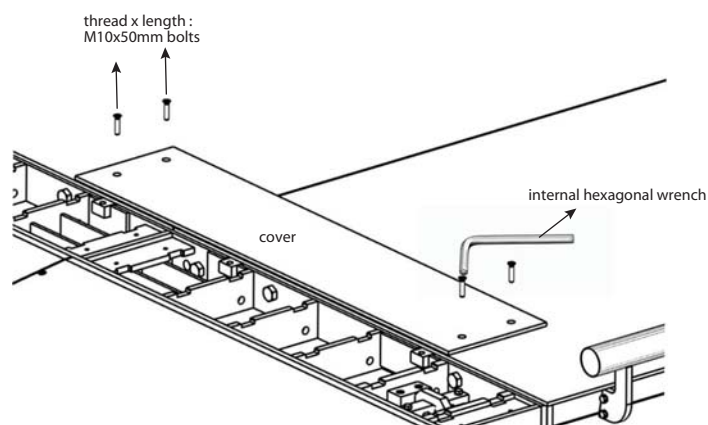
junction box

indicator

Note: Please follow this instruction for the wiring

-EXC   -SIG   HD   +SIG   +EXC

+EXC = Positive excitation voltage to load cell (RED)
+SIG = Positive output signal from load cell (GREEN)
HD   = Shielded wire (YELLOW or thick BLACK)
-SIG = Negative output signal from load cell (WHITE)
-EXC = Negative excitation voltage to load cell (BLACK)

thread x length :
M10x50mm bolts

(15) Last Step: Install the beam covers

internal hexagonal wrench

cover

Complete Installation