V6200
HD TRUCK
WHEEL ALIGNER

ITRACK INSTALLATION

WHEEL ALIGNMENT – I-TRACK

- **Facts:**
- Uses a spinning laser
- Uses frame geometrical centerline as reference
- Can measures all wheel angles, but focusses on speed by measuring toe related angles and camber using a single roll.

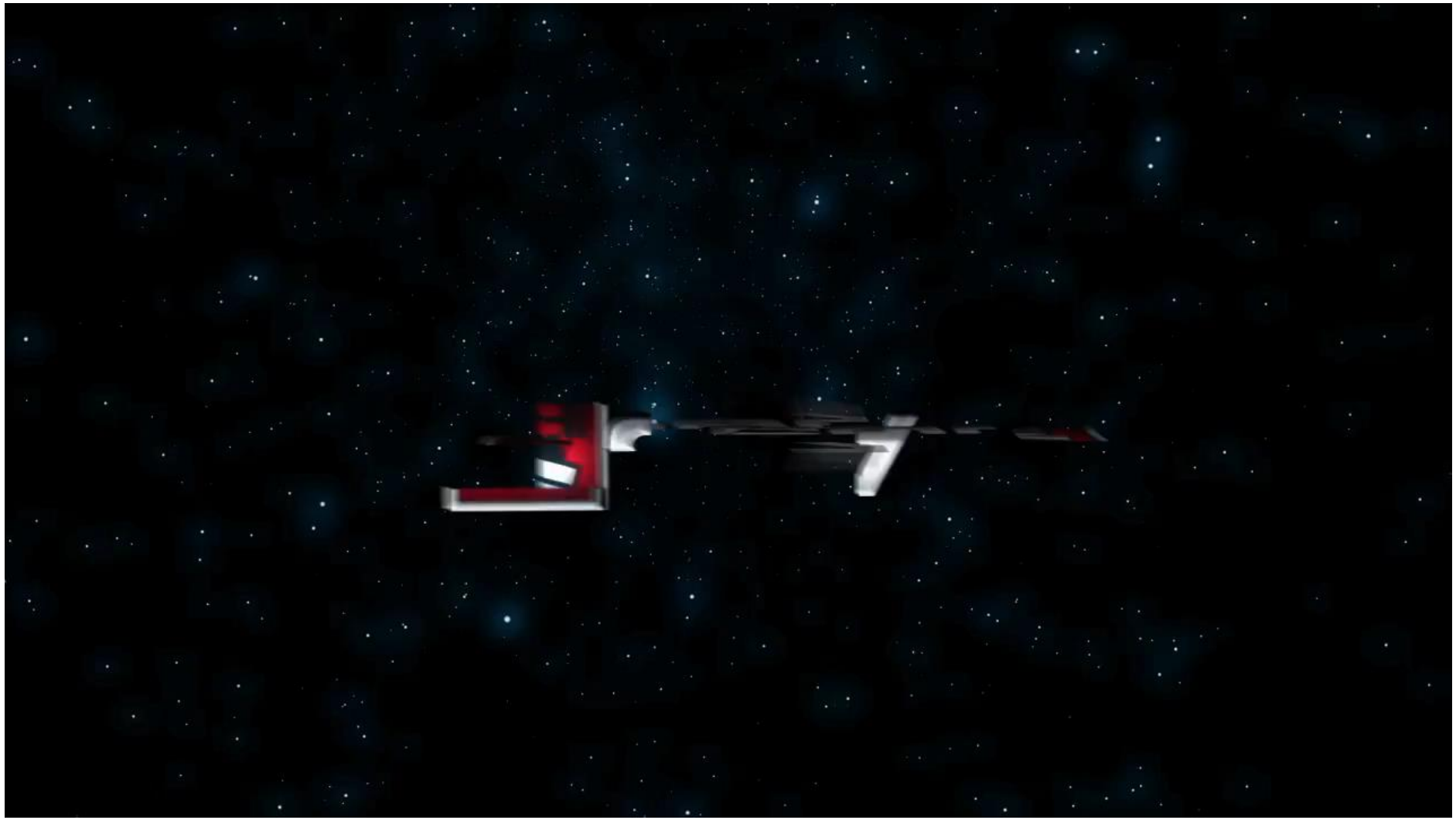
- **Benefits:**
- Measuring unit has huge FOV
- Can measure absolute angles
- Measurement of articulated busses

- **Customers:**
- Tire workshops
- Fleet customers

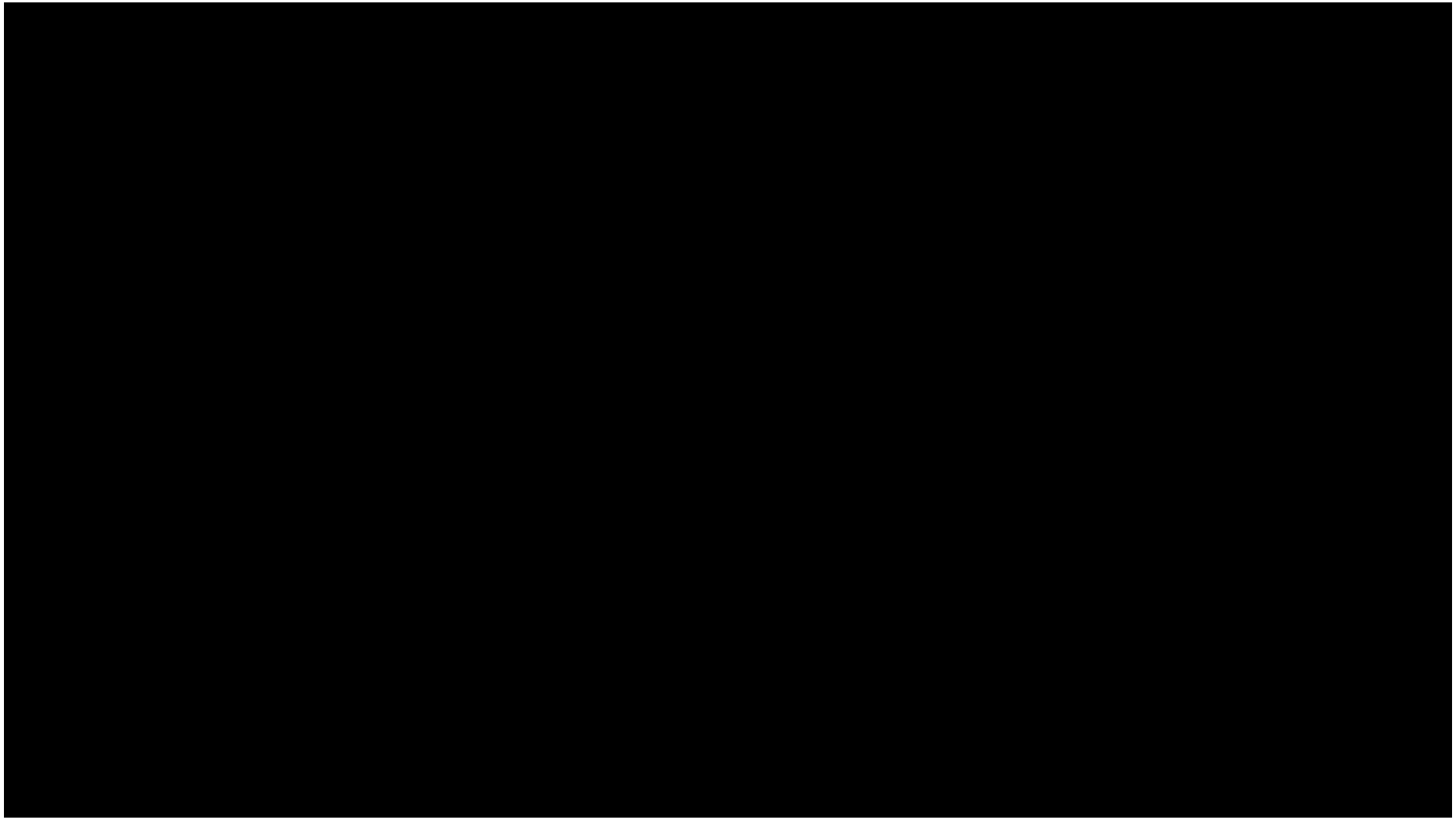
I-TRACK

COMES IN TWO VERSIONS

I-TRACK PERMANENT



I-TRACK MOBILE KIT

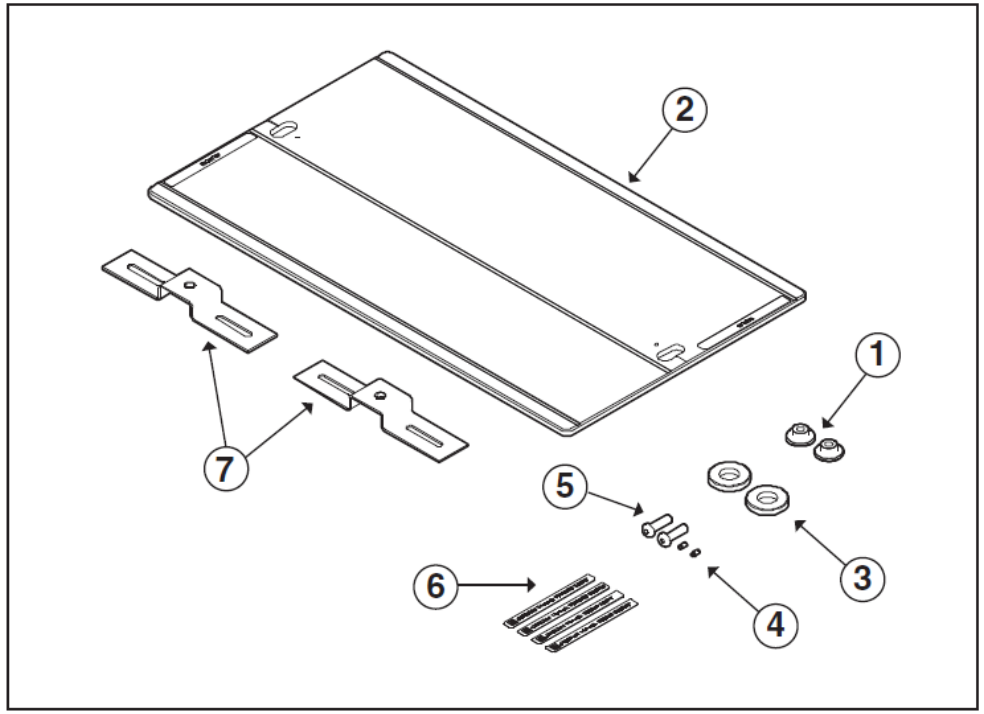


INSTALLATION

Permanent installation

- COMPONENT IDENTIFICATION AND LOCATION
- BAY SIZE
- INSTALLATION
- TARGET BOARD POSITIONING
- TARGET BOARD LABELING
- SYSTEM CALIBRATION

TARGET ASSEMBLY

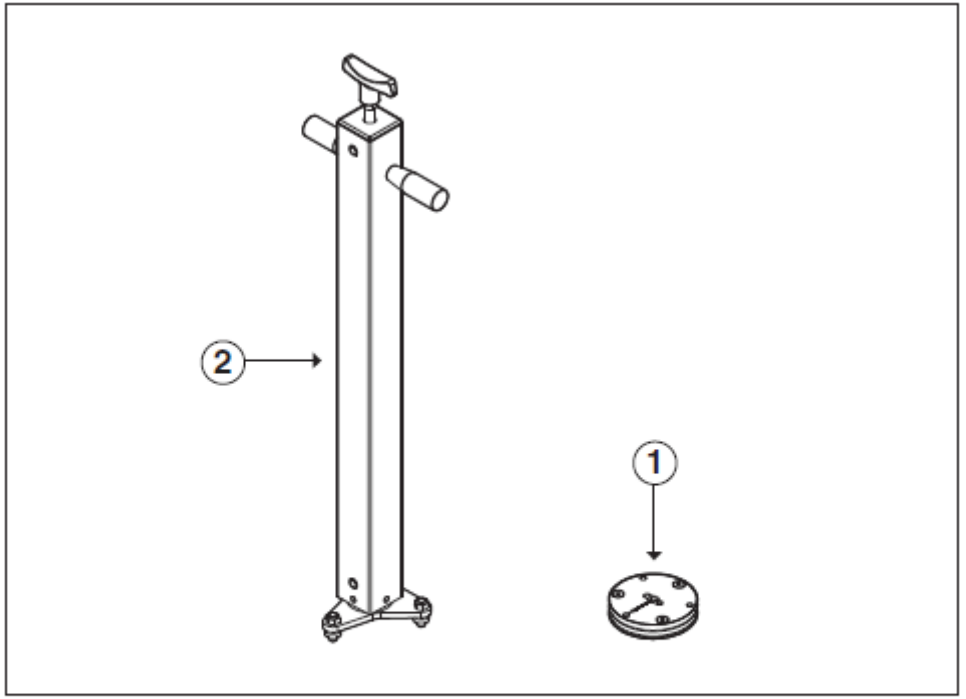


JT640-1 AK/14749 – Target scale with wall mount

1.	Bushing	JT64002
2.	Target scale	JT640
3.	Washer	TBRSB M20
4.	Stop screw	M5 × 10
5.	Screw for target scale	MK6S 10x25
6.	Decal kit for target scales	–
7.	Wall mount, complete *	JT64005

* Wall mount is not needed when scales are mounted on poles

TARGET SUPPORT ASSEMBLY

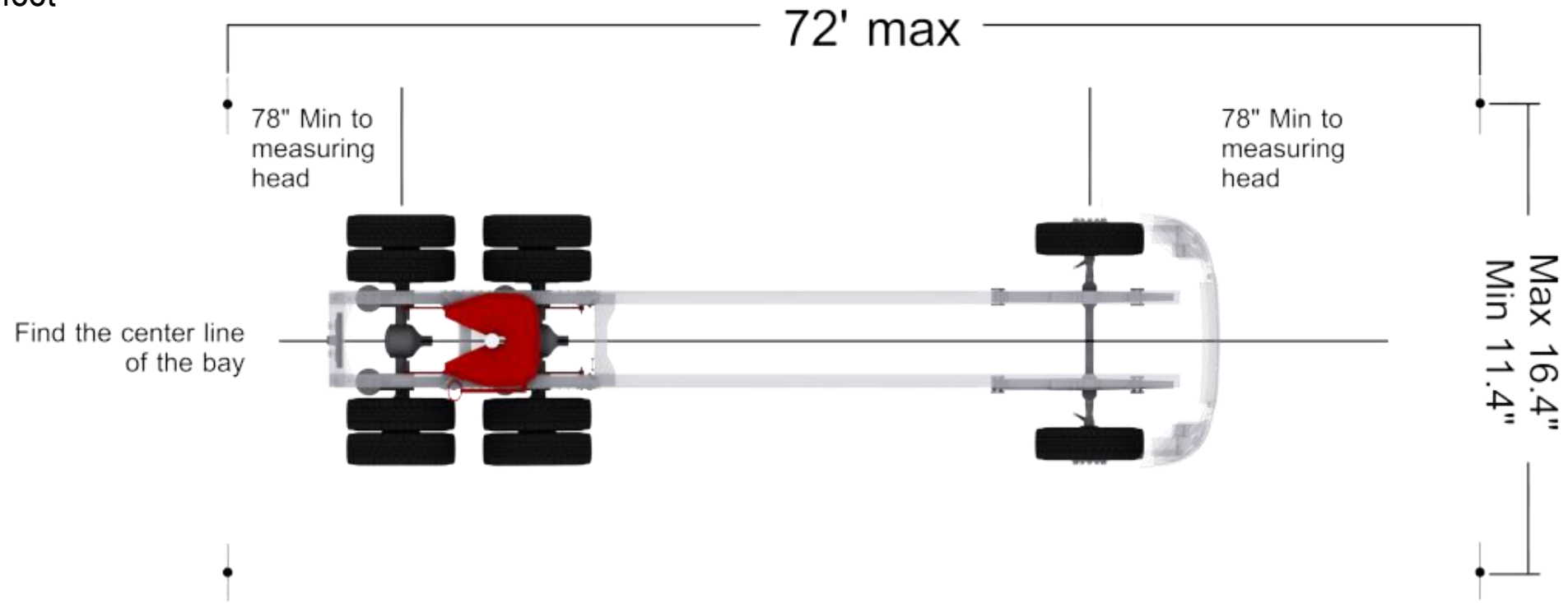


JT703/15109 – Kit for removable and flexible pole with floor fixation

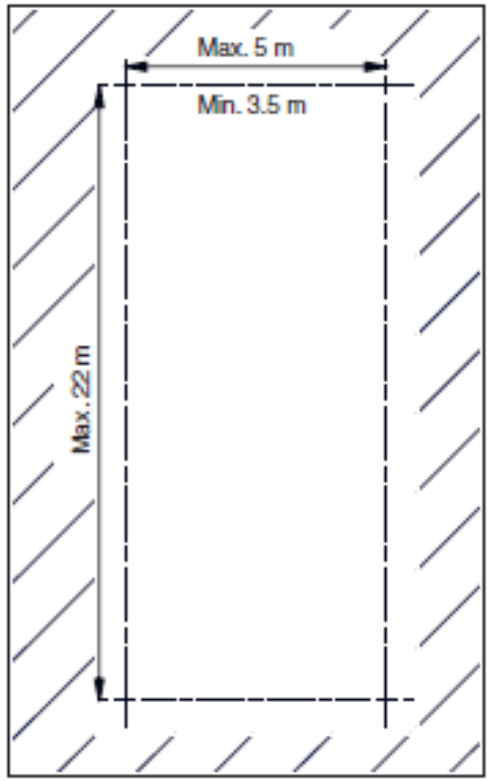
1.	Floor anchoring	JT674
2.	Removable and flexible pole	JT660 A

AREA REQUIREMENTS

Max. width = 16 feet
Recommended width = 13 feet
Min. width = 11 feet 5 inches
Max length = 72 feet



INSTALLATION



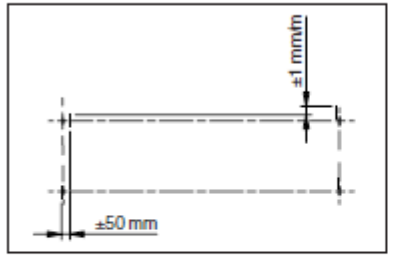
Workplace specifications

Recommended width	= 13 feet
Min. width	= 11 feet 5 inches
Max. width	= 16 feet
Max length	= 72 feet

The workshop area is easily measured with simple tools using the appendix on page 19. See drawing JT66010 on page 20 for detailed specifications.

Allowed floor irregularity within the workplace: ±5mm

> ! **Important!** For recommended dimensions and further information please refer to drawing JT66010 on page 20. Note that the wheels are to be rotated a half turn.



Important dimensions
The following dimensions are important to avoid measurement errors:

- Longitudinal offset: less than 2”
- Lateral offset: less than ± .040”

> ! **Important!** If there is any doubt regarding workplace dimensions and design, contact your reseller.

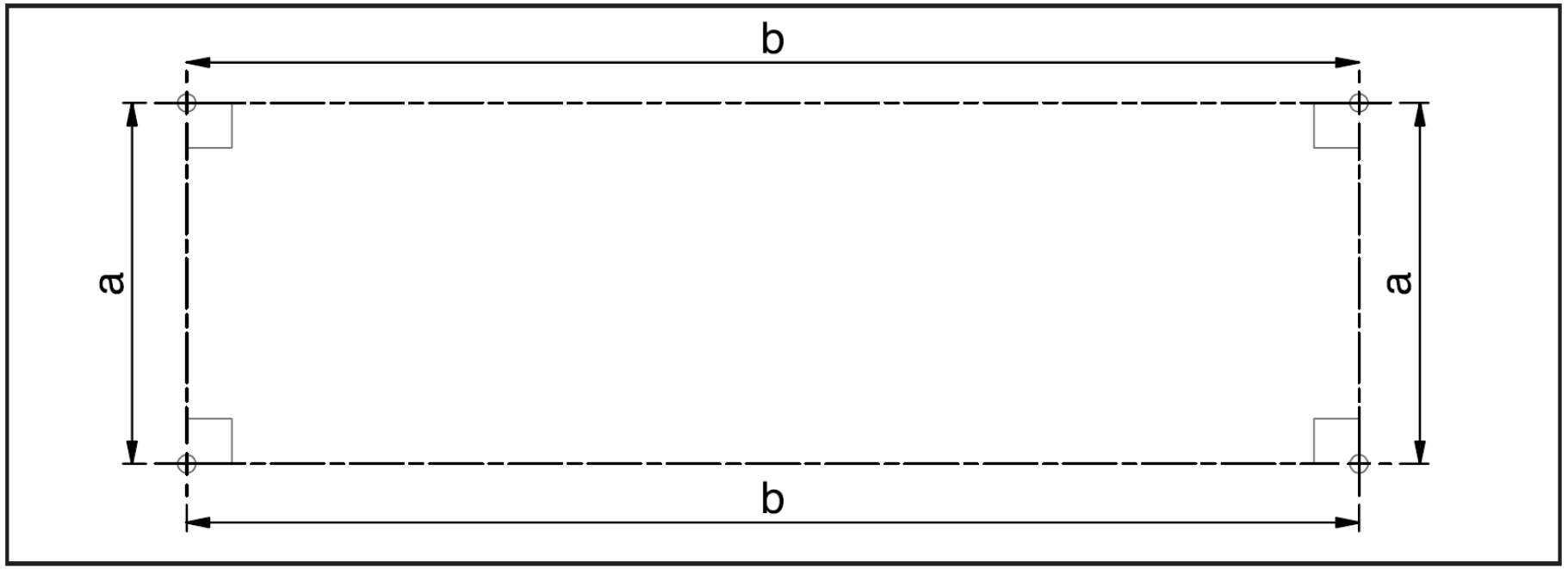
Mounting of target scales
There are two different ways to mount the target scales in the workshop:

- Wall mount, see pages 7–8
- Floor anchored pole, see pages 9–11

FLOOR MOUNT LOCATION

Standard permanent installation

All four holes should have the same dimension (a) and (b) and form a rectangle.



REFER TO DRAWING JT66010 ON NEXT PAGE FOR RECOMMENDED DIMENSIONS OF THE WORKPLACE.

FLOOR MOUNT LOCATION

Standard permanent installation

a:..... b:.....

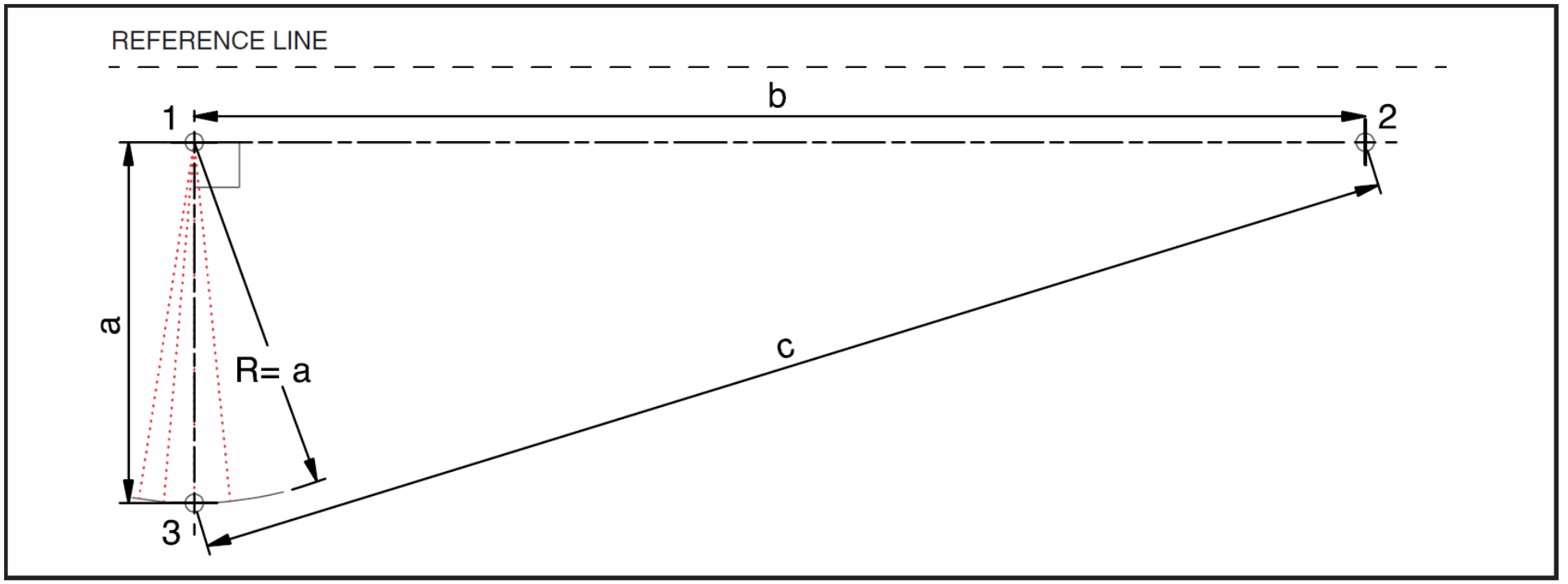
c:.....

E.g. a:3 b:4 c=5

$c = \sqrt{a^2 + b^2}$

..... $= \sqrt{\text{.....}^2 + \text{.....}^2}$

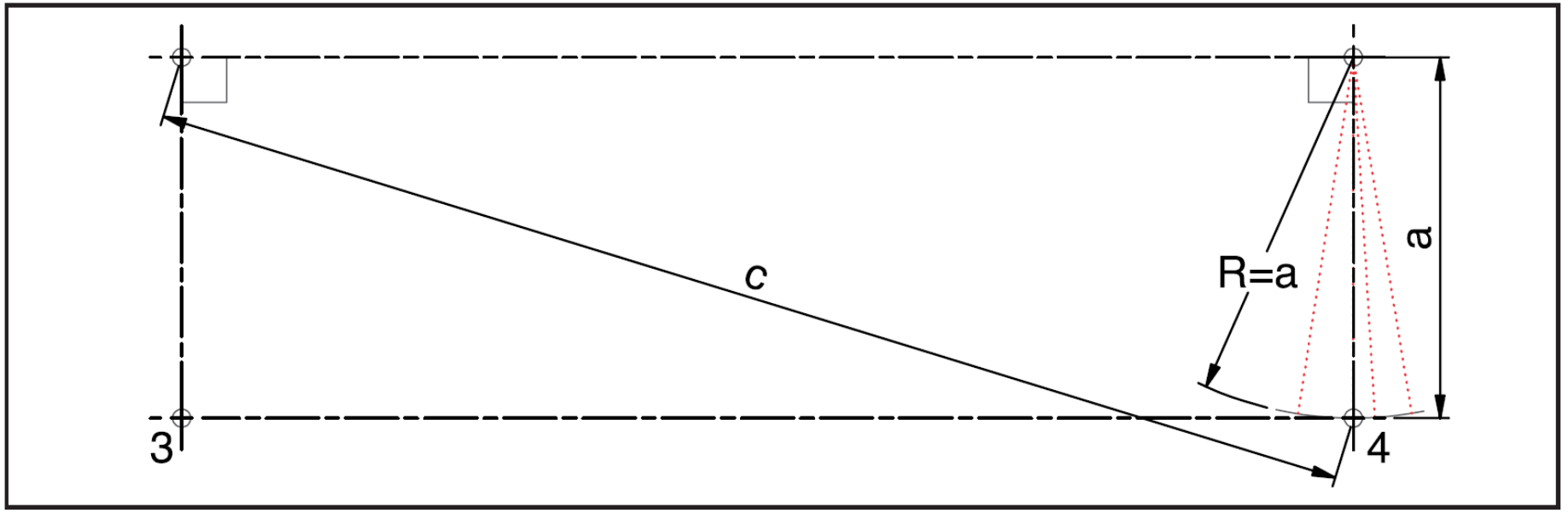
Drill guide hole 1 and 2 with a specific dimension (b). Use a wall or a pit as reference if possible. Place guide pins in these holes. Measure hole 3 to dimension (a) and mark according to figure. Calculate the distance (c) using the equation and use a measuring tape from point 1 to point 3. Drill a hole where the two lines (a) and (c) intersect.



FLOOR MOUNT LOCATION

Standard permanent installation

Place a guide pin in hole 3. Measure hole 4 to dimension (a) and mark according to figure. Use the same distance (c) earlier calculated, start from point 1. Drill a guide hole where lines (a) and (c) intersect.



CORE BIT GUIDE

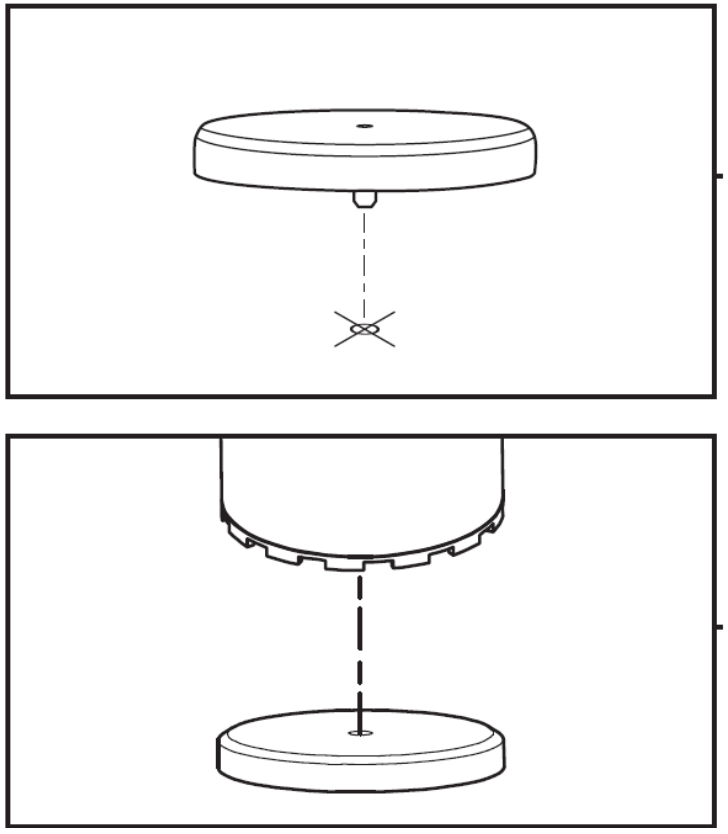
Standard permanent installation

CORE BIT DRILL GUIDE SET UP

Pilot hole size 3/8”

Core bit size 61/2”

Hole depth 1 5/8” deep



Floor anchoring for pole

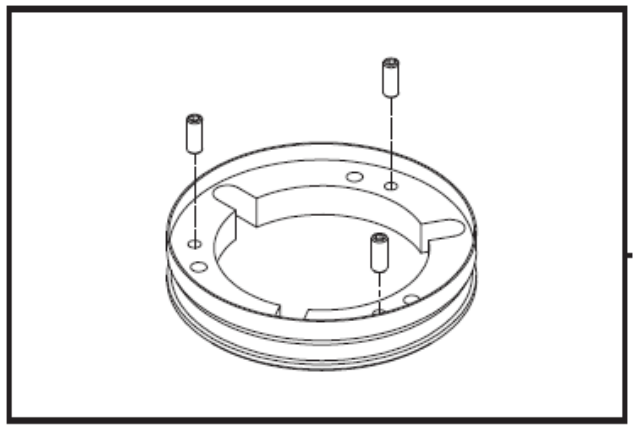
Drilling

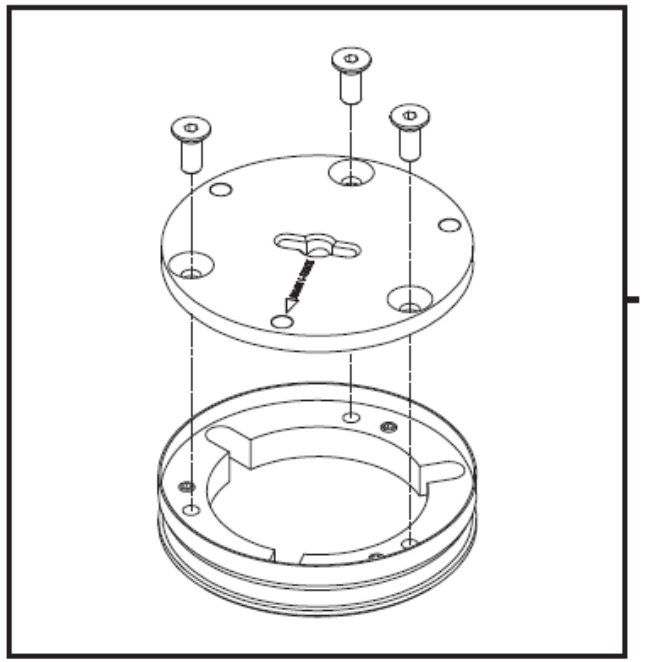
Holes for the floor anchoring are made using guide holes and a core guide for the core drill.

1. Mark out a drill hole for the pole.
2. Drill a hole (Ø10 mm) and place core guide JT67404 in the hole.
3. Use an appropriate machine to drill a 40 mm deep hole (Ø160 mm). See drawing JT660010 on page 20.
4. Repeat for remaining holes that are to be drilled.
5. Remove the concrete (min. depth 40 mm).

ANCHORING

FLOOR ANCHORING SYSTEM





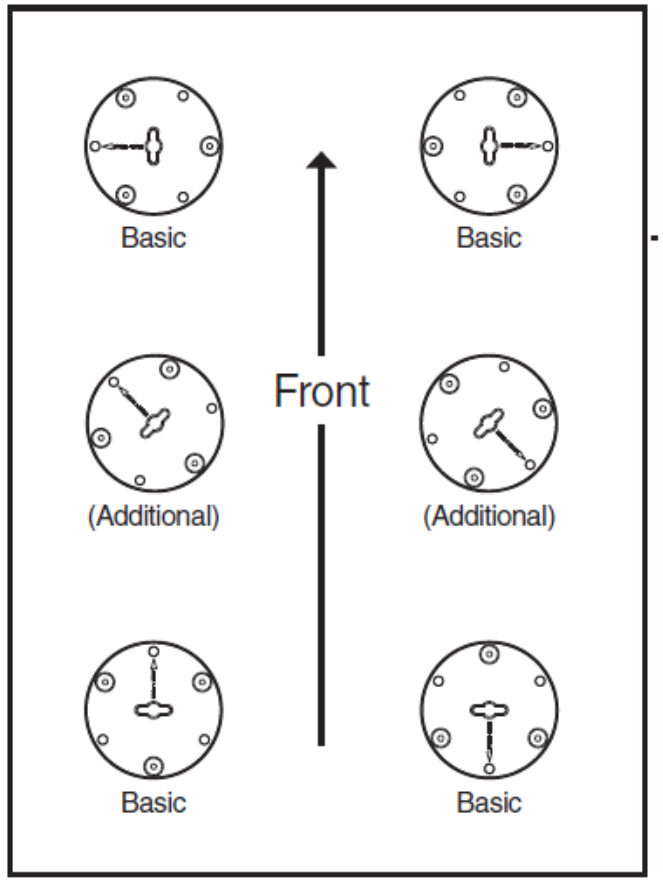
Mounting instruction

1. Put the lower part of floor anchoring JT674 in the hole. Direct the floor anchoring according to the illustration seen bottom-left. Adjust with the screws so that the floor anchoring becomes level with the floor.
2. Then remove the lower part and fill the hole with water resistant concrete adhesive ARDEX 301.
3. Put the lower part back in the hole and press it firmly to the bottom.
4. After hardening: scrape superfluous adhesive off the hole's edge. Then mount the upper part and tighten the three socket head cap screws.
5. Repeat for remaining floor anchorings that are to be mounted.

FLOOR ANCHORING POSITIONING

Anchoring system for doing combined tractors and trailer

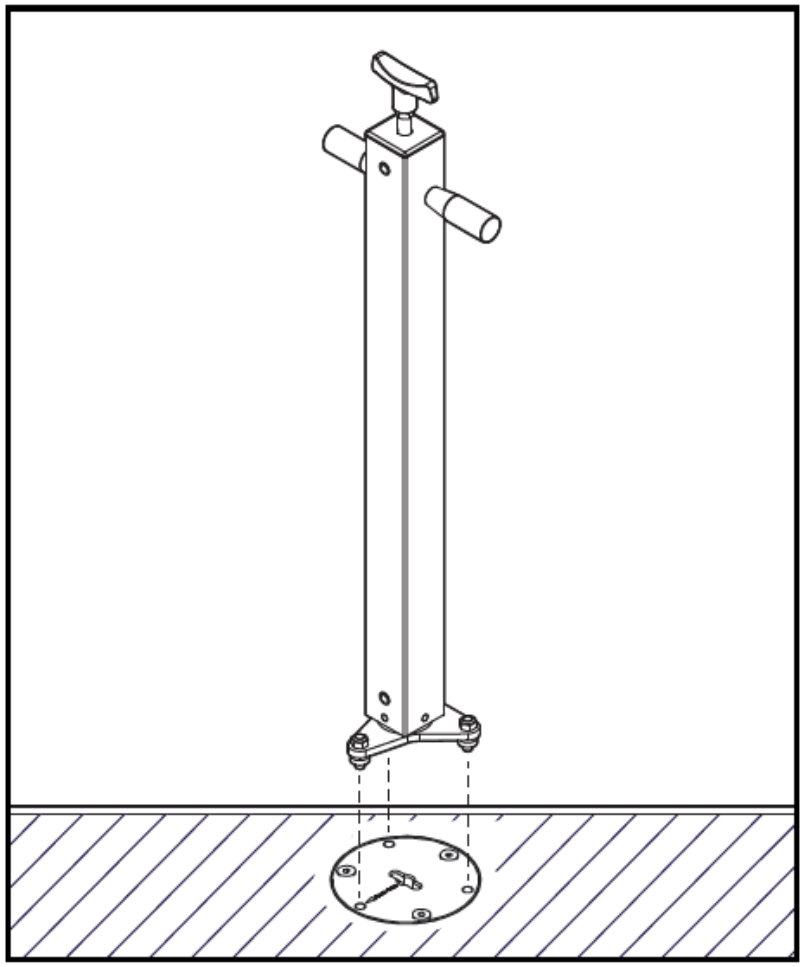
Can use up to six anchor pods



Important!
The floor anchorings should be directed according to the illustration.

MOUNTING POLE

Push down on the handle to engage the pole lock



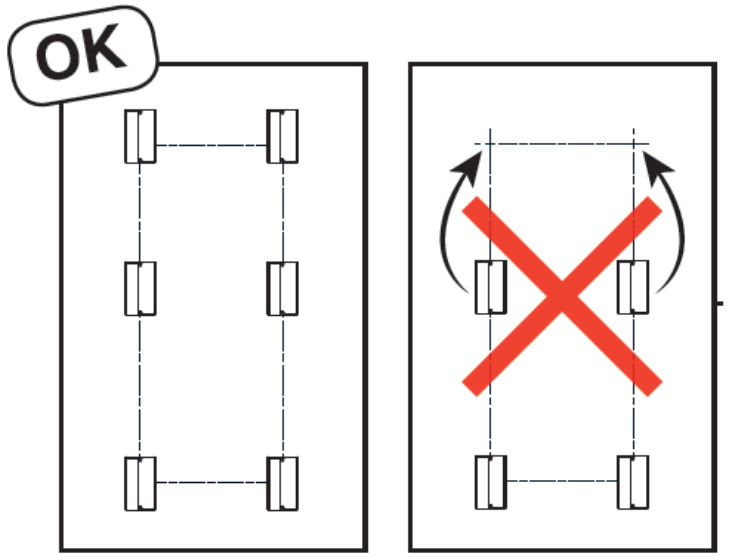
Mounting pole
Mount the pole. Setup and adjustment of the target scales is described on pages 12–13.

INSTALLATION

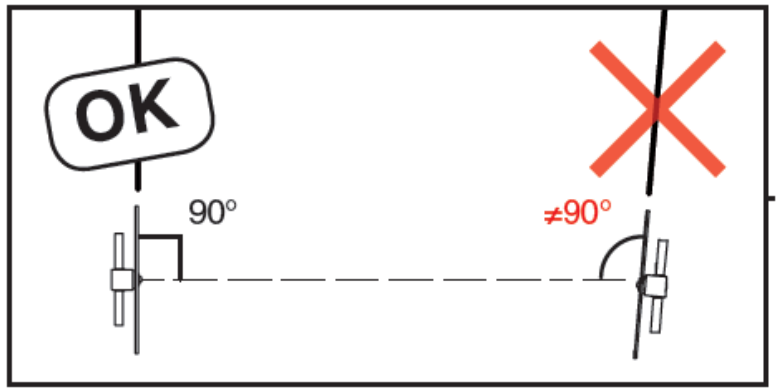
Important! The target scales are now calibrated to their current position. Never move a target scale to another workplace.

Important! Check the dimensions and position of the workplace if, for example, a target scale has been dropped or if frequent measurement errors seem to occur.

Important! Each target scale has a dedicated position and must not be moved within the workplace.

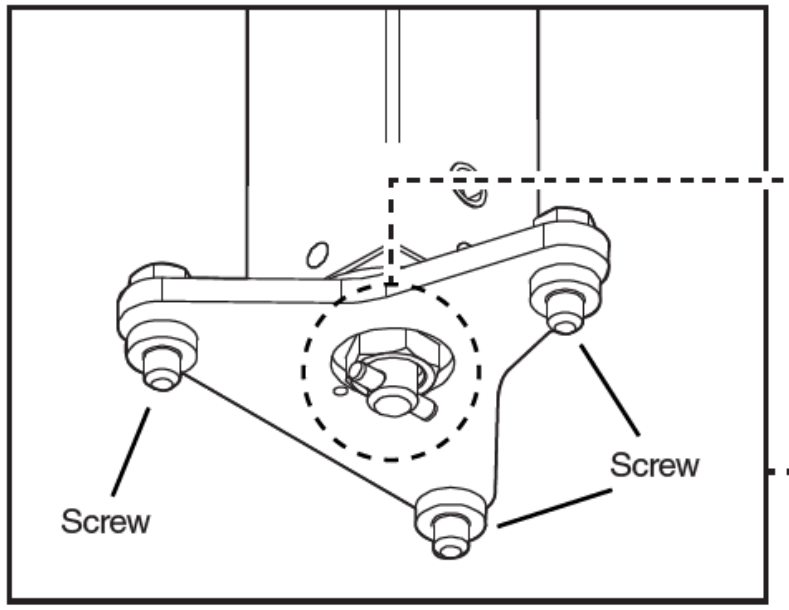


INSTALLATION



Adjusting pole

The scales must not be oblique. The front scales must be parallel with the rear scales. The scales should form a rectangle.

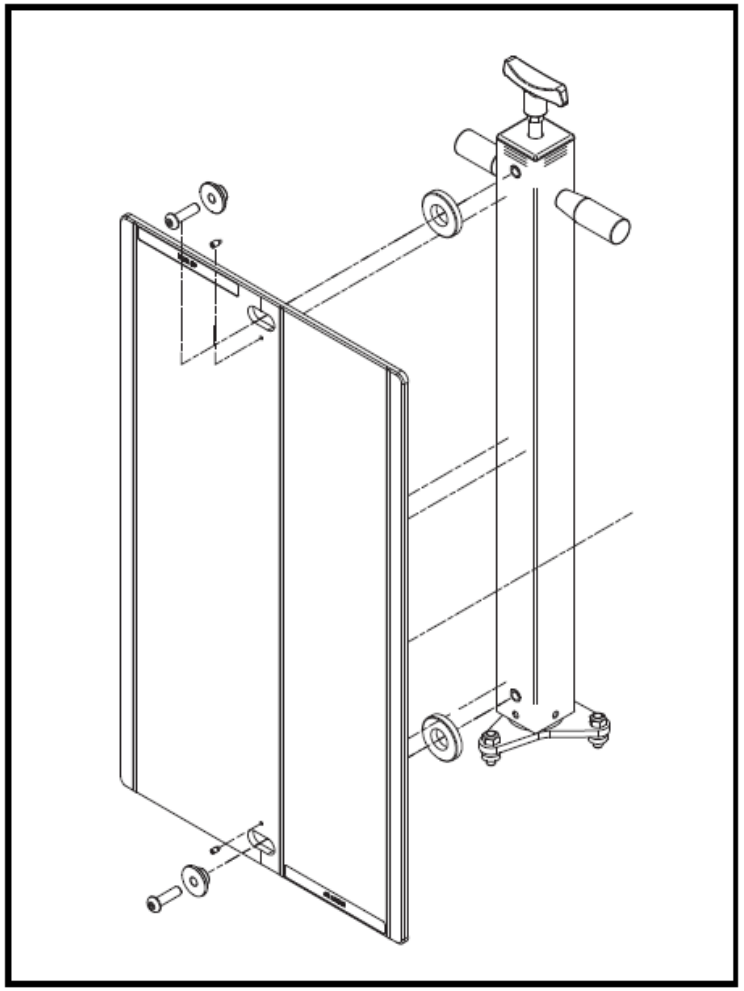


1. Loosen the nut that is placed in the bottom of the pole. Direct the pole so that the mounting holes for the front and rear scales point at each other. Then tighten the nut. **Note!** Tighten the nut firmly.

2. Next, make sure the pole is vertical, by adjusting it using the three screws in the foot. Use a laser or spirit level to verify that the pole is vertical.

INSTALLATION

INSTALLATION OF TARGET SCALE ON POLE

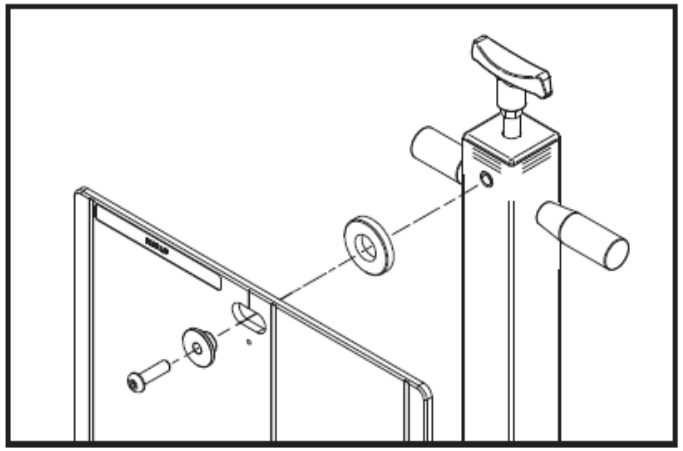


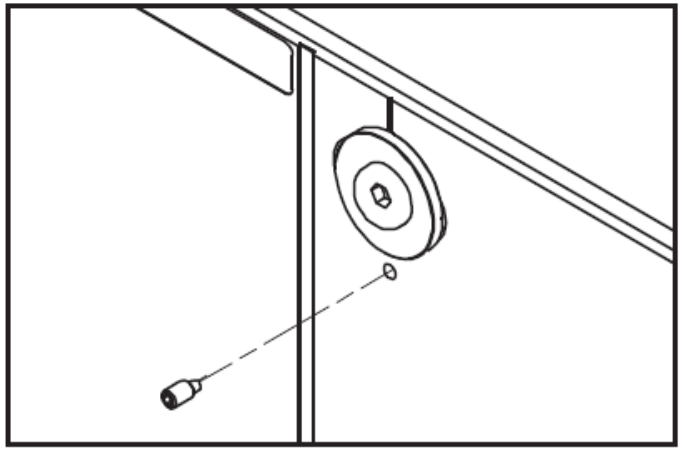
Mounting target scale on pole

Turn the target scale front up or rear up depending on the type of scale needed. There is a marking (”front up” or ”rear up”) on every target scale. A front scale has a short distance between the first reflexes and a rear scale has a long distance.

> ! **Important!** Make sure that the correct target scale is mounted in the front and in the rear, respectively.

TARGET ASSEMBLY





1. Place a bushing in the upper groove together with a button head screw using a 6 mm hex key.

> **Note!** Do not fasten the screw completely; the scale must be possible to slide sideways in the groove. Repeat with the lower bushing.

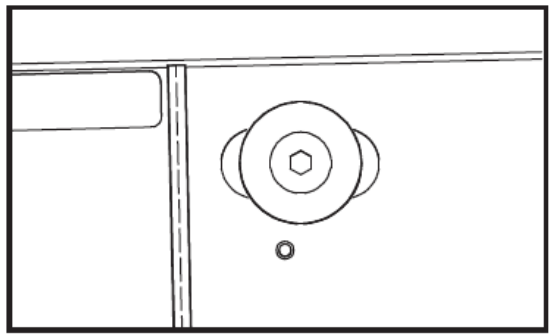
2. Screw in the stop screw by hand. It can be used to measure the distance between the target scales with a measuring tape.

   Repeat the procedure on the other scales. The steps necessary for correct positioning and adjustment of the scales are described on pages 13–15.

ADJUSTING THE TARGETS

Adjusting target scales

Start by adjusting three of the scales. After that, adjust the fourth scale in order to calibrate the workplace, according to the instructions on pages 14–16.

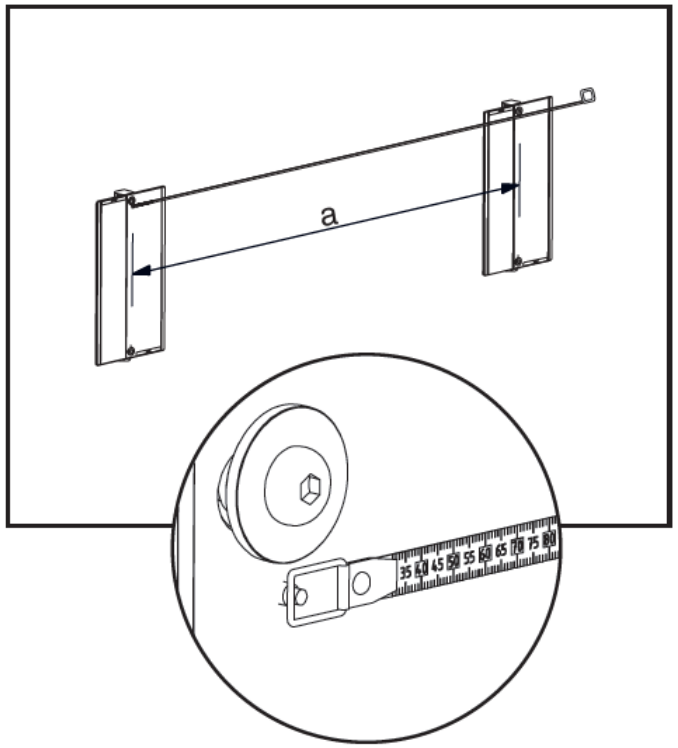


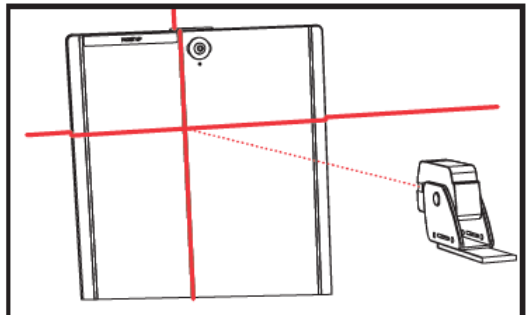
Adjust the three scales so that they are centered in the groove. Make sure that the reflexes on the scales are vertical. Then fasten the scale.

The horizontal position is easily adjusted using a self-levelling cross/line laser facing a reflex on the target scale. This may also be checked with a spirit level or lead line.

Important!
The scales must be vertical.

CALIBRATION





Calibrating with measuring tape

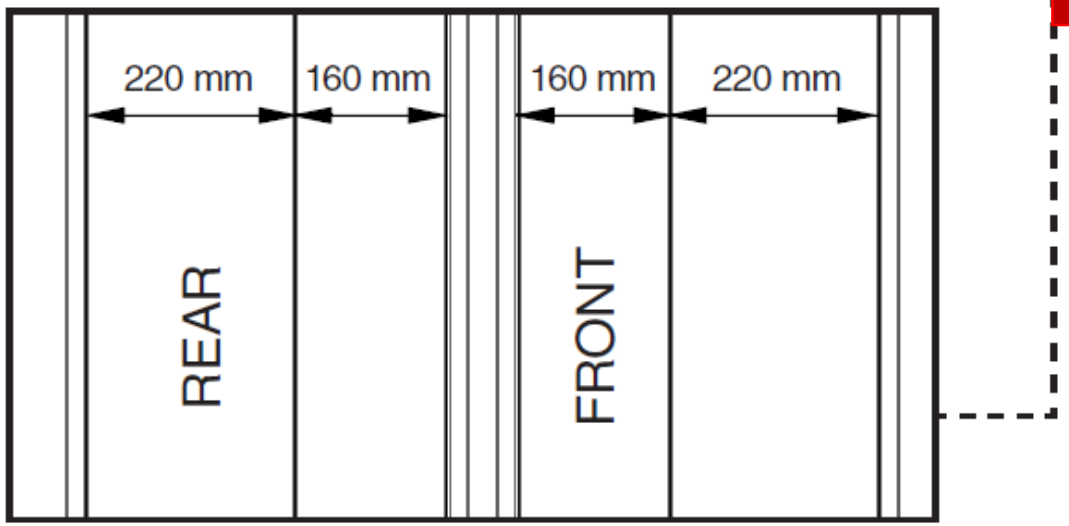
If you don't have a trailer bar, a measuring tape can be used to calibrate the workplace.

The target scales are adjusted so that the distance (a) between the stop screws is equal front and rear.

When the distance (a) has been measured, the upper screw on the scale must be fastened so that the scale no longer can be moved sideways. Then adjust the lower screw to make the target scale's reflexes vertical.

> ! **Important!** Distance (a) must be equal for front and rear scales. Each scale's reflexes must be vertical.

TARGET BOARD ORIENTATION

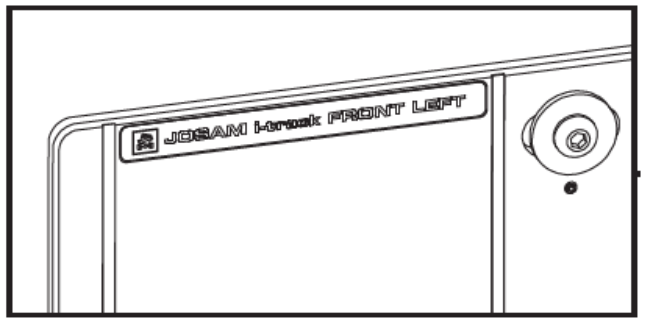


TARGET BOARD POSITION

! **Important!** Make sure that the correct target scale is mounted in the front and in the rear, respectively.

TARGET BOARD LABELLING

LABELLING



Labelling

Labelling target scales

Label the target scales with the decals found in the set. The decal is attached to the machined area in each target scale. Make sure that correct decal is attached to the correct target scale.

ALIGNMENT AREA DIMENSIONS

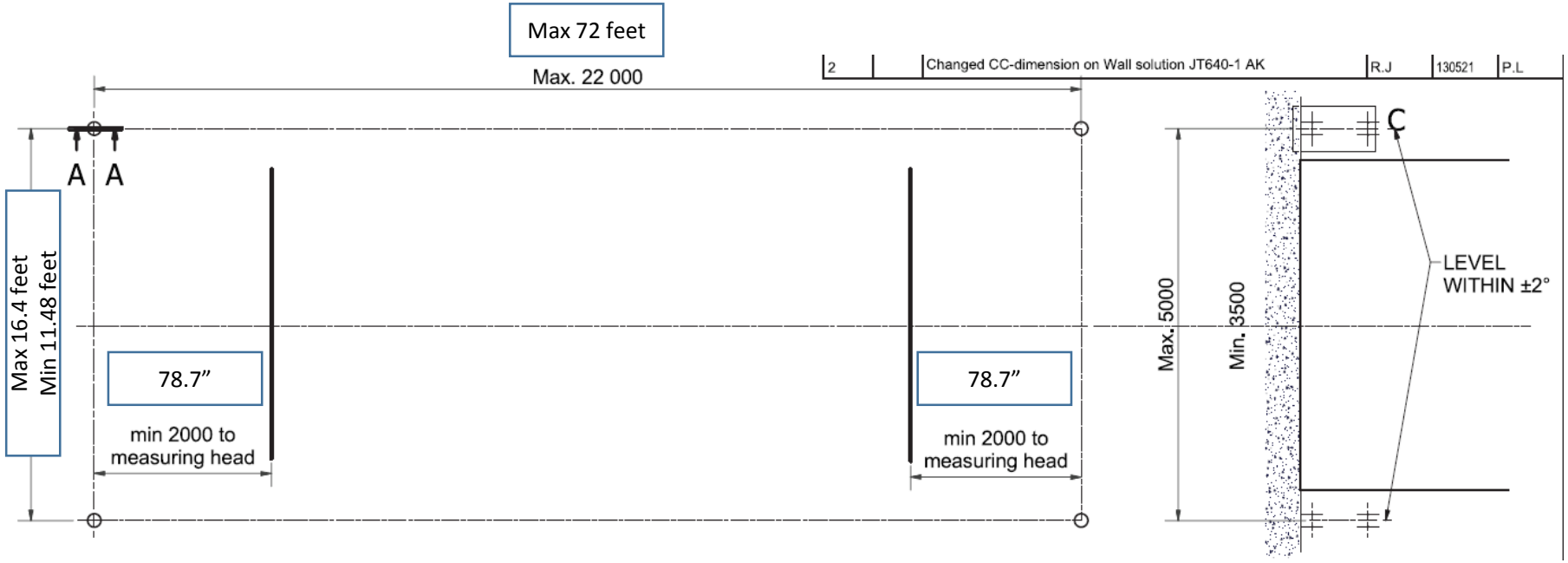
ENGLISH CONVERSIONS

Max length 72 feet
Max Width 16.4 feet
Min Width 11.48 feet

Distance from front target to front axle 78.74”

Distance from rear target to rear axle 78.74”

Core bit size 6.5’ diameter
Pilot hole size 3/8”
Hole depth 1.574”



INSTALLATION | WALL MOUNT

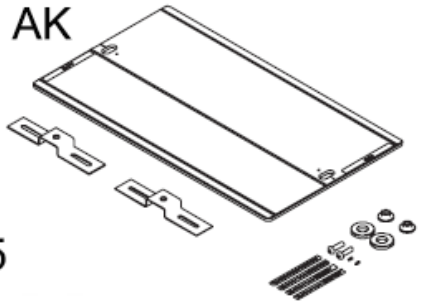
WALL MOUNT INSTALLATION

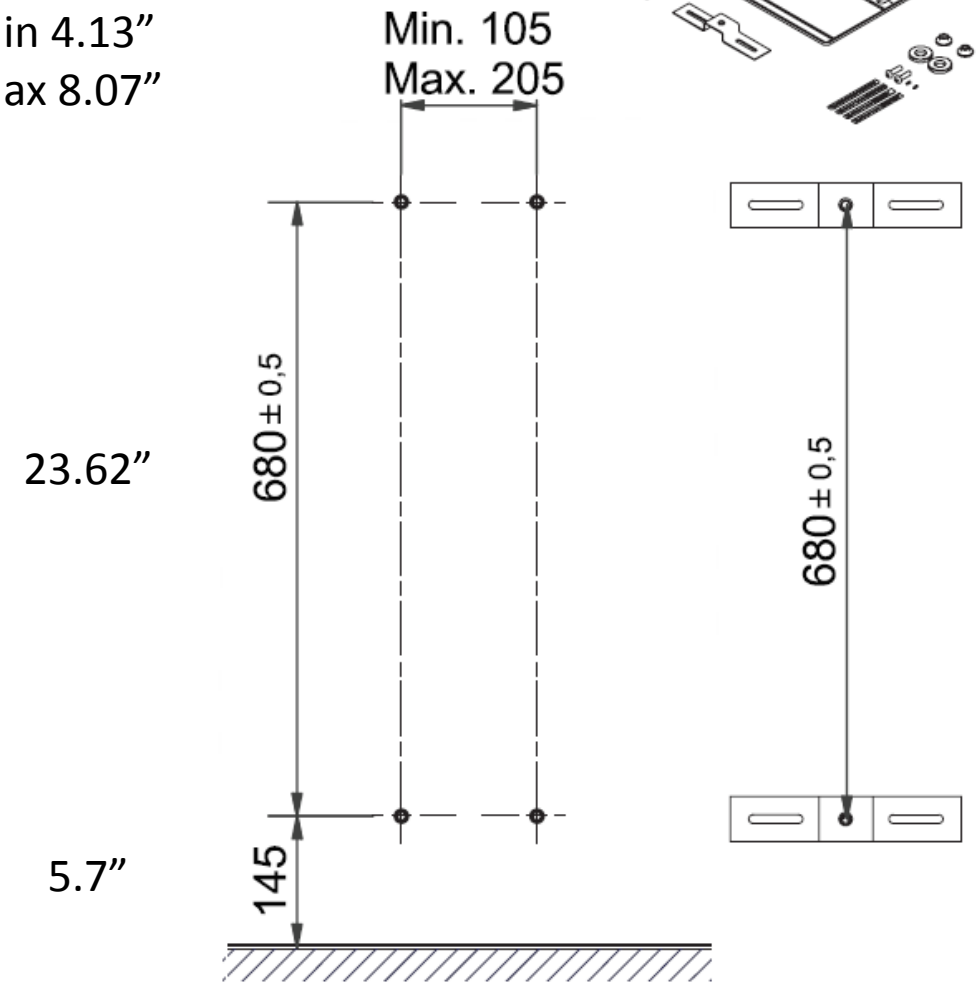
Brackets for wall mounted scale

Drill and/or screw the brackets into the wall according to drawing JT66010 on page 20. Use the slits' adjustment allowance to make sure the screw holes are vertical. Then mount the target scale, see instructions on page 8.

> ! **Important!** To obtain good measuring accuracy, the target scales should be fastened on a stable surface.

Wall solution JT640-1 AK

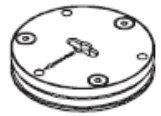




INSTALLATION

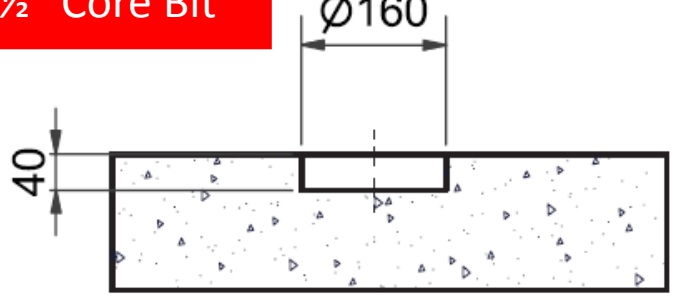
FLOOR MOUNT SYSTEM

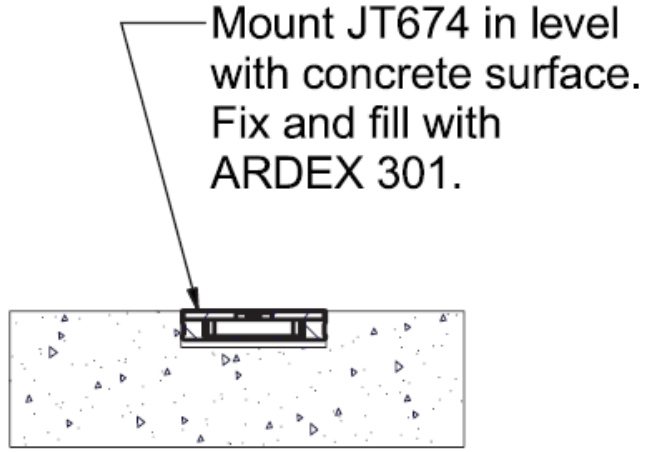
Floor solution JT674



6 ½” Core Bit

1.570” deep





Hole diameter for connector = 160 mm
Drill depth = 40 mm
Drill angle = 90°

INSTALLATION

Target pole holder orientation

Left front - arrow to the left
Right front - arrow to the right
Left rear - arrow to the front
Right rear - arrow to the rear