

A Picture to Remember

INSTALLATION INSTRUCTIONS

Carefully remove and unwrap all the contents of box. Referring to the parts list, make sure you have everything needed to proceed with the installation of the lens. If any parts are missing, contact Prismasonic immediately.

Inspect the mount to make sure there are no shipping defects. If you notice a problem with the mount itself, or the mount's mechanical system, contact Prismasonic immediately.

Part List:

Assemblies

- ceiling box (pre assembled module)
- pipe holder (pre assembled module)

Custom Aluminum Parts

- base plate
- extension washer (2 pcs)
- lens grip (2 pcs)
- pipe
- rod 180 mm (6 pcs)
- rod 270 mm (4 pcs)
- square nut (10 pcs)
- threaded washer (4 pcs)

Hardware

- Cap Screw, M6 x10 (16 pcs)
- Cap Screw, M6 x 12 (4 pcs)
- Cap Screw, M6 x 16 (4 pcs)
- Cap Screw, M10 x 90
- Nut, 10 mm
- Set Screw, M4 x 16, M4 x 25 (both 4 pcs)
- Set Screw, M5 x 16, M5 x 25 (both 4 pcs)
- Set Screw, M6 x 16, M6 x 25 (both 4 pcs)
- Set Screw, M10 x 90
- Washer, M6 x 25 (8 pcs)

Tools

- L-wrench, 2 mm, 2.5 mm, 3 mm
- L-wrench, 4 mm, 5 mm, 8 mm
- Spanner Wrench, adjustable



ceiling plate
corner pole (4 pcs)
black window (4 pcs)
mask plate
pipe holder, top (2 pcs)
skt cap screws
set screws

pipe plate
pipe plate holder (2 pcs)
pipe holder, bottom1 (2 pcs)
pipe holder, bottom2 (2 pcs)
skt cap screws
set screws

STEP 1

Flip the projector upside down on a table. Depending on the thread size and position on a projector body use either **set screw, m4 x 16, m4 x 25, m5 x 16, m5 x 25, m6 x 16, m6 x 25** to connect the **threaded washer** to the projector body. First set the threaded washer to its place. Now attach the set screw with a correct sized **L-wrench** from the top, through the correct screw thread of threaded washer, to the projector body until the heel of set screw is slightly below plane of the washer top surface. Leave the m6 thread in center still unused. Finally tighten the threaded washer against the projector body by rotating it clockwise. Make sure that after tightening the washer the head of set screw is not above the top surface of threaded washer. If the screw threads of projector body are on different planes, use the **washer, m6 x 25** to make the height of each threaded washer on plane to each other, as presented in a zoomed **Fig 1**.

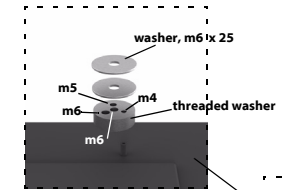
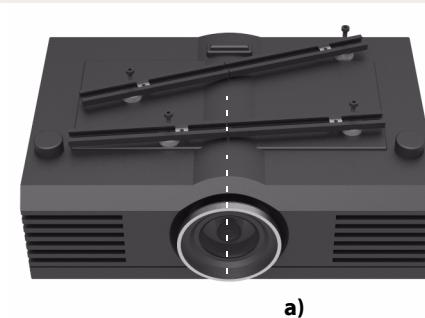


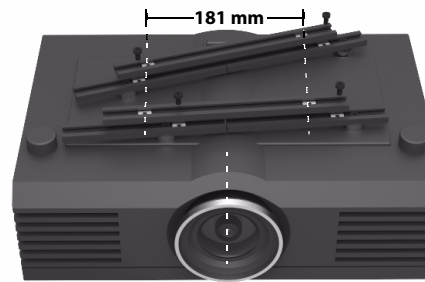
Fig 1

STEP 2

Referring to **Fig 2-a**, attach the 4 pcs of **rod 180 mm** in two pairs, so that every two of them are in a row with each other and locating crosswise in relation to the projector's optics. Position the seam of each pair as center to the projector's optics as possible. Before inserting the **skt cap screws, m6 x 10** to attach the rods to the **threaded washer**, string the **square nut** from side to the slot of each rod exactly as shown in **Fig 2-a**. (In order to achieve the best strength against the upward force, these square nuts are good to be located close to the threaded washers.) Now tighten the each screw securely with **L-wrench** to the center thread of each **threaded washer**.



a)



b)

Fig 2

After this prepare to attach the **rod 270 mm** with **skt cap screws, m6 x 10** to the square nuts, which were just pre assembled to the slots of each **rod 180 mm**, exactly as shown in **Fig 2-b**. Again, position both rods as symmetrically related to the projector's optics as possible. And again, before inserting the screws, string 4 pcs of **square nuts** into the slots of each **rod 270 mm** so that they are symmetrically locating related to the projector's optics, and *having around 181 mm perpendicular distance* to each other as shown in **Fig 2-b**. After positioning the **square nuts** on both **rod 270 mm**, tighten the cap screws securely using **L-wrench** against the pre assembled **square nut** of each **rod 180 mm**.

In case the projector had an asymmetric optics location, the rod layout can be designed as shown in a **Fig 3-a**. **Fig 3-b** shows the rod layout for the projector which has the body screw threads on a very long distance to each other.

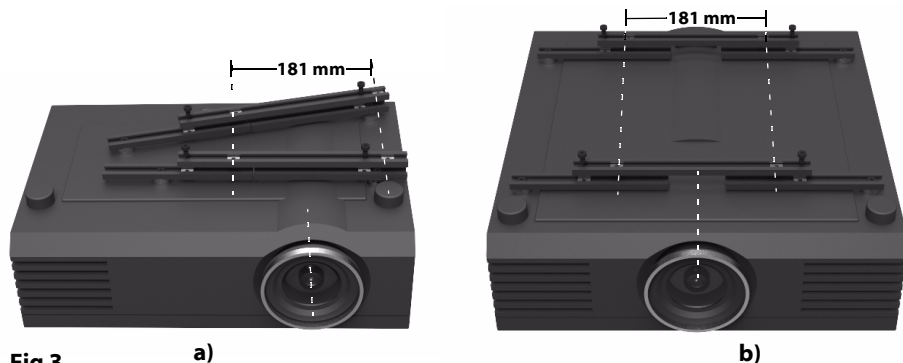


Fig 3

STEP 3

Now prepare to attach the **base plate** on the crosswise inserted bars so that it is symmetrically locating in relation to the projector's optics, exactly as shown in **Fig 4-a**. Make also sure the **base plate** is parallel with the projector's front edge, and ,depending on the setup, the distance between the front edges of **base plate** and **projector** is few centimeters (**Fig 4-b**).

Tighten the **skt cap screws, m6 x 10** on the slot of **base plate** to the pre assembled **square nuts** on the slots of **rods 270 mm**. In case the **base plate** do not reach each **square nut** of **rod 270 mm** they will be left yet as they are (**Fig 4-b**).

NOTE! Before attaching the base plate it is good to start to design the cable management at this point. The power cable with two inputs and one output is enough to power up both the projector and the lens. The output of the cable is fed from below the base plate through the hole marked with the circle in **Fig 4-a**. On the other hand a good place for the double input cable terminal is for example at the spot marked with a quadrangle in **Fig 4-a**. Make sure the signal cable (HDMI or other) is now also fed from below the **base plate** through the hole marked with the circle in **Fig 4-a**.

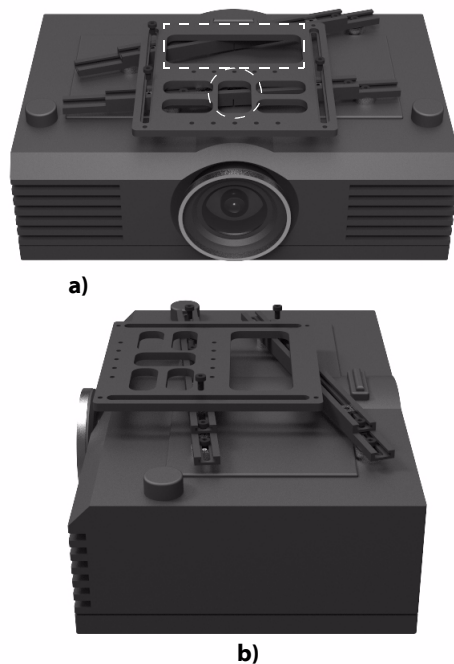


Fig 4

**STEP 4**

Next, insert the 2 pcs of **rod 180 mm** on the base plate exactly as shown in **Fig 5-a**. The bars are attached with **skt cap screws, m6 x 10** to the screw threads of **base plate** locating on the back end of plate. Also now if there is some back corner(s) of **base plate** yet to be attached to the crosswise bars (**Fig 5-b**), it is now connected to the **base plate** with **skt cap screws, m6 x 16** using the **rod 180 mm** and the **extension washer** exactly as shown in a **Fig 5-b**. String still one square nut to both **rod 180 mm** and tighten the screws carefully with L-wrench. Now the **base plate** is attached to the projector body securely from four spots.

NOTE! Depending on the projector and the used lens model the correct location for both **rod 180 mm** at this step has to be checked case by case, so that the **lens grips** can be positioned at correct places (**Fig 6**), which will correspond for the optimum lens location in front of the projector's optics.

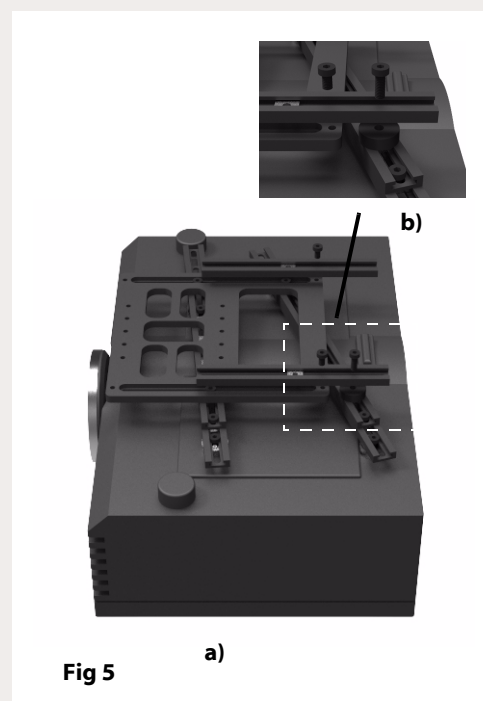


Fig 5

STEP 5

Attach the two **lens grip** parts next exactly as shown in **Fig 6**. The **skt cap screw, m6 x 16** connects both **lens grip** to the screw threads locating on the front of the **base plate**, while the **skt cap screws, m6 x 10** attach the grip parts to the pre assembled **square nuts** of both **rod 180 mm**.

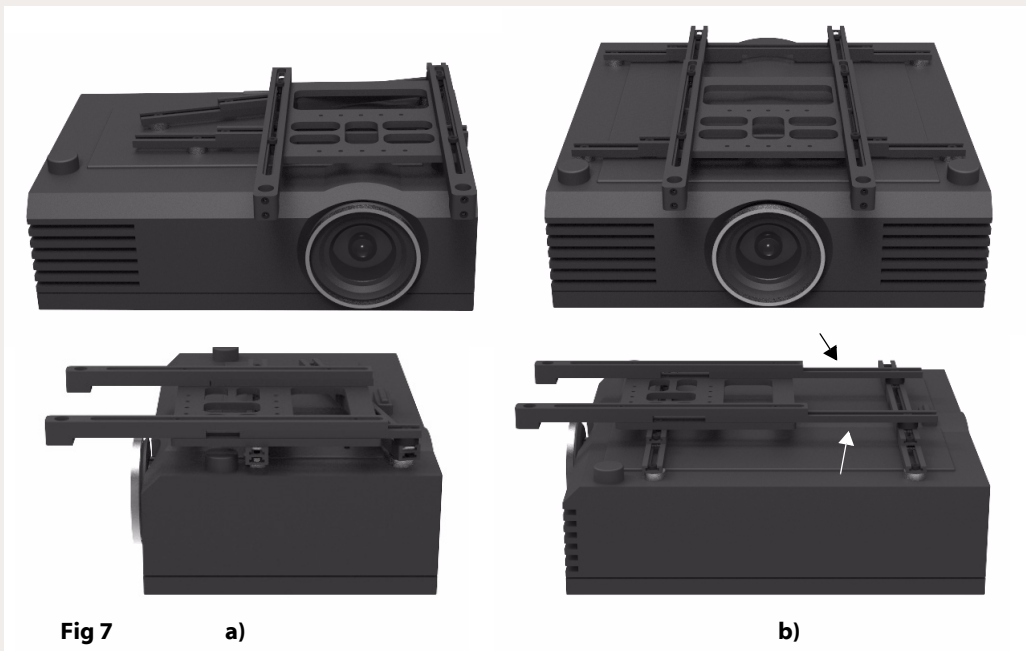
The correct **lens grip** position related to the projector's optics can be checked with the lens. In order to be able to have a proper tilt adjustment to the lens, it is good to leave 1-2 cm gap between the lens entrance and the projector's optics.

Fig 7 shows the front and side views of setups at this stage for the case of projector of asymmetric optics location (**Fig 7-a**) and the case of projector with a body screw threads on a long distance to each other (**Fig 7-b**). In case the **rod 180 mm** is too short to reach the crosswise bars, the **rod 270 mm** is used for extending the **lens grips**, exactly as pointed with arrows in **Fig 7-b**

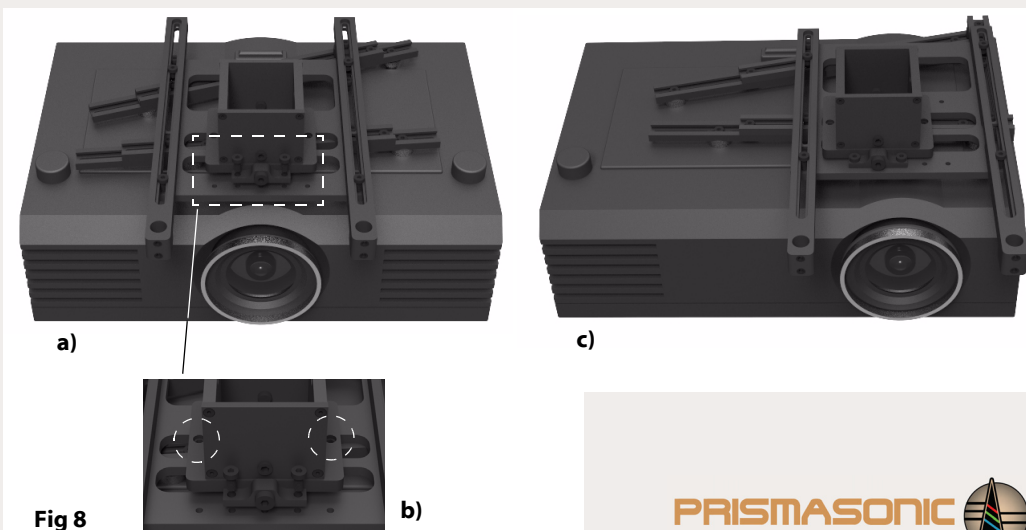


Fig 6



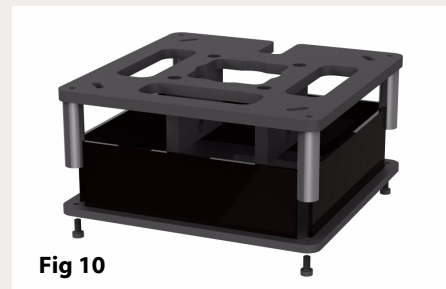
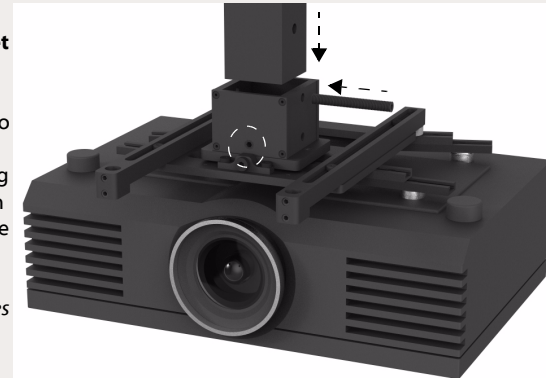
**STEP 6**

Now attach the pre assembled **pipe holder** module to the **base plate** with 4 pcs of **skt cap screws, m6 x 12**, exactly as shown in **Fig 8-a**. Tighten the screw securely using **L-wrench**, after which tighten the pair of **set screws m10 x 10** on sides of **pipe plate** (circled in a **Fig 8-b**), so that the **pipe holder** module will be in parallel to the **base plate**. In case of projector of asymmetric optics location, for attaching the pipe holder module (**Fig 8-c**), choose the screw threads on **base plate**, which are more in the center of gravity spot.

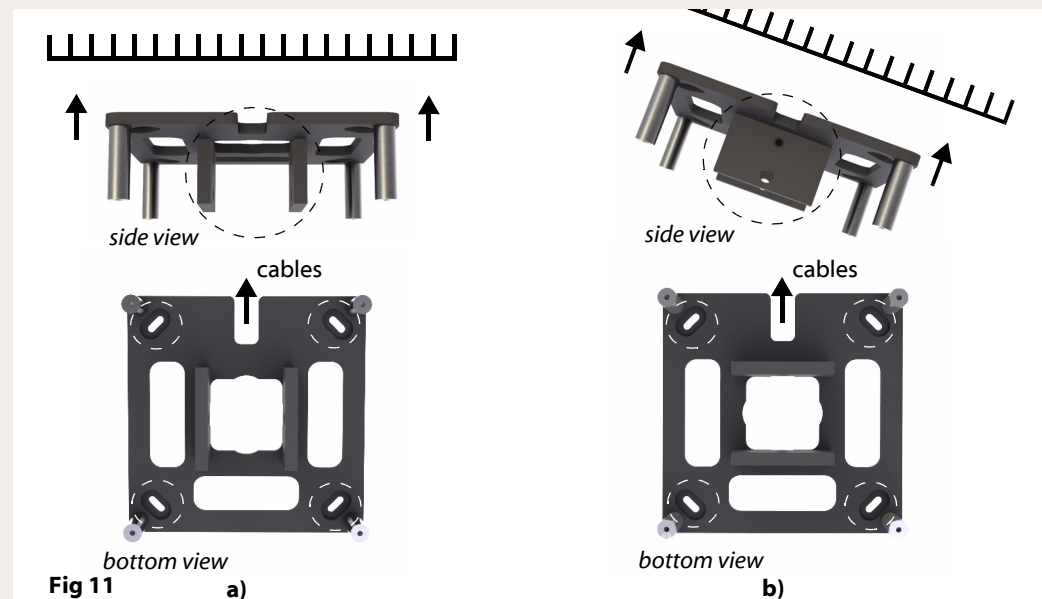
**STEP 7**

Next insert the **pipe** exactly as shown in **Fig 9**. The **set screw m10 x 80** is screwed from the enter thread of **pipe holder** through the hole pair (locating at 48 mm from edge) of **pipe** to the exit threads of **pipe holder**, so that there will be a few millimeter passage for the set screw on both ends of **pipe holder**. After this by using **L-wrench**, tighten the pair of **set screws m10 x 10** on both sides of **pipe holder** (circled in a **Fig 9**), so that the **pipe** becomes perpendicular to the **base plate**.

NOTE! Before attaching the pipe make sure all the cables have been routed through the pipe.

**STEP 8**

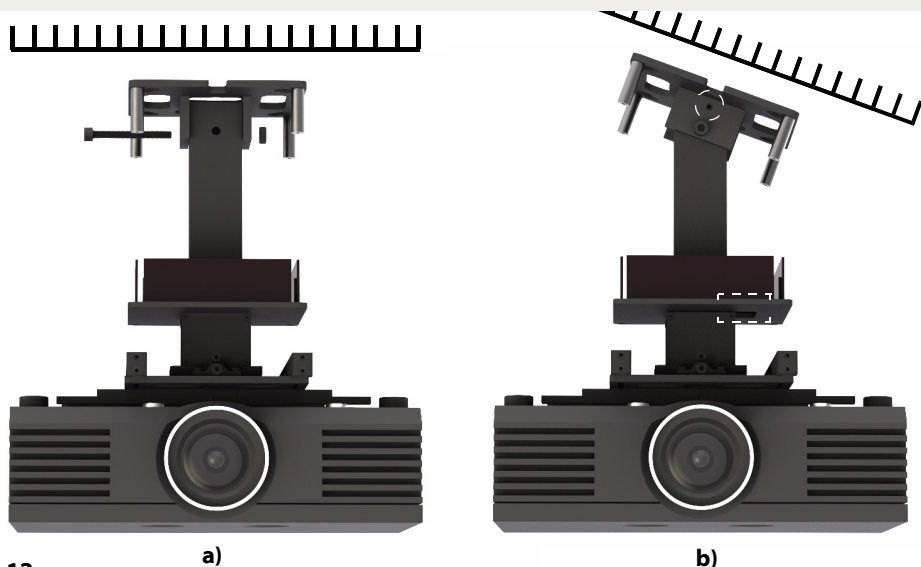
Remove the cover sheets from outside surfaces of **black windows** of the **ceiling box** assembly. After this release the **skt cap screws** from corners by using the **L-wrench**. Now the **ceiling box** assembly will separate into the two pieces as shown in a **Fig 10**.



STEP 9

Install the upper part of **ceiling box** assembly to the correct location on a ceiling (**Fig 11**) (*installation parts not included*). The four oval shaped slots for the screw installation is circled in the *bottom view* of **Fig 11**. **Please consult the professional installer if you do NOT know an appropriate way to attach heavy loads to your ceiling material!**

All the cables can be routed from **ceiling box** to any direction on the ceiling or through the ceiling. The route direction to cables will be defined by the orientation of **cable routing slot** shown in the bottom view of **Fig 11**. In case of sloping ceiling, the orientation between the **cable routing slot** and the **pipe holders, top** (circled in the *side view* of **Fig 11**) has to be chosen so that the **pipe holders** are to the direction of the slope, exactly as shown in **Fig 11-b**. This orientation will allow **pipe** to hang without restraint, perpendicularly towards to the ground. The **pipe holder** position related to the **cable routing slot** can be switched by releasing the four **skt cap screws** from the top of **ceiling plate**.

**Fig 12****STEP 10**

Now lift the projector with the mount assembly up to the ceiling box and insert the **skt cap screws m10 x 90** through the holes of both **pipe holder; top** and the **pipe** (locating at 33 mm from edge). Tighten the screw securely against the **nut 10 mm** using the **L-wrench** and **hex socket**. Before lifting the system up, insert the lower part of **ceiling box** laying on the lower **pipe holder** assembly exactly as shown in **Fig 12**. In case of sloping ceiling make sure the extra opening notch of **mask plate** is pointing to the direction of slope, exactly as shown with a *quadrangle* in **Fig 12-b**. After the system is hanging freely towards to the ground tighten the **set screws m10 x 10** on both sides of upper **pipe holders** (circled in a **Fig 12-b**).

NOTE ! Before lifting the projector with the mount assembly it is now time to do the final cable management by routing the cables through the ceiling or on the ceiling via the cable routing slot of ceiling box.

NOTE ! Also now it is a moment to turn ON the projector for the first time, and align the 16:9 picture exactly to the center of the screen. If the system has to be rotated for centering the picture, it is done by turning the whole system on a ceiling. The oval shaped screw slots of **ceiling plate** (bottom view of **Fig 11**) allow to make this fine tuning. Also the fine tilting of projector to both directions can be operated by playing with the set screw pairs presented in **Fig 8-b** and **Fig 9**.

**Fig 13****STEP 12**

Finally insert the lens, depending on the model, from above or below into the lens grips. (**Fig 14-a** and **Fig 14-b**). The stand plate of the lens has to be temporarily removed in both cases. In case of short **pipe** combined with the Cinomorph C-100M / C-100R lens, also the **lens grips** have to be temporarily removed from the mount assembly for stringing the lens rails into the grips. This is because the short **pipe** may not allow to have enough space to string the long lens poles from above into the **lens grips**. (*The lens grips can be safely removed from the mount if the user manual has been carefully followed during the assembly steps*). After finding the correct height for the lens system by sliding the lens rails on the grips, the both **set screws** of both **lens grips** are tightened securely with the **L-wrench** (zoomed part of **Fig 14-a**). Also remember to attach the temporarily removed stand plate of lens back into the place.

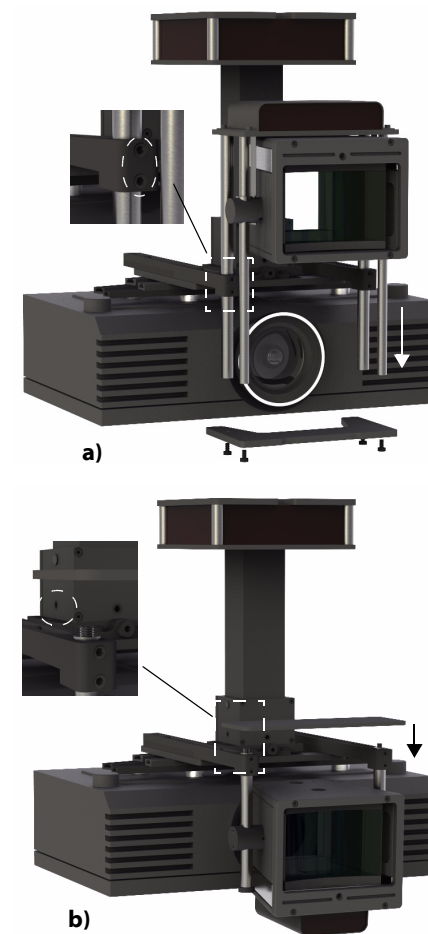
Now make the final tilt adjustments to the system by playing with the set screw pairs presented in **Fig 8-b** and **Fig 9**, after which the pipe is completely locked by tightening the pair of **set screws** with **L-wrench** on both sides of **pipe holder** assembly. (circled in the zoomed **Fig 14-b**)

NOTE! Minimum recommended drop from non-sloping ceiling to projector's bottom is 25 cm

You're done. Enjoy your new 2.40:1 setup!

STEP 11

Referring to **Fig 13** now insert the lower part of **ceiling box** back to its place by tightening the four **skt cap screws** with **L-wrench**, while stringing the cables through the ceiling or through **cable routing slot** of **ceiling plate**. **Corner poles** of **ceiling box** assembly may have to be loosened by opening them slightly from the **ceiling plate**. This helps the **black windows** to fit smoothly to their places in between the **corner poles**.

**Fig 14**