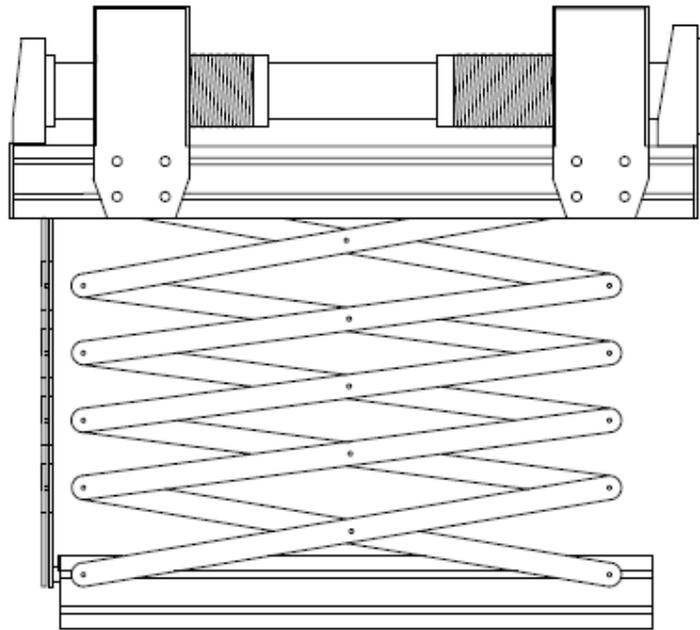


INSTALLATION MANUAL
PROJECTOR LIFT
PPL 2500



USERMA_PPL2500_V02

Thank you for purchasing the new Projector Lift.

The PPL 2500 is supplied with a set of components and accessories that make it suitable for installation for the majority of standard AV applications, but note must be made of the restrictions that apply to the weight capability of this unit and not exceeded.

Before installing the lift, please read the following instructions carefully.

Please, always keep these instructions so that anyone can read them when needed.

The manufacturer does not takes responsibility for any damage to property or personal injury if the projector lift is used outside or recommended specifications or in case of incorrect installation.

INSTALLATION OF PPL 2500 PROJECTOR LIFT HAS TO BE CARRIED OUT FROM QUALIFIED PERSONNEL ONLY.

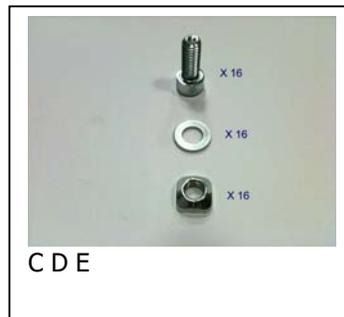
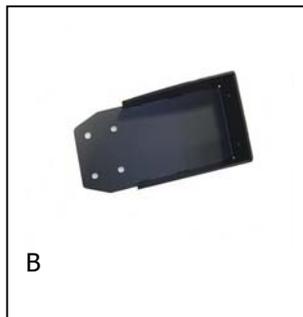
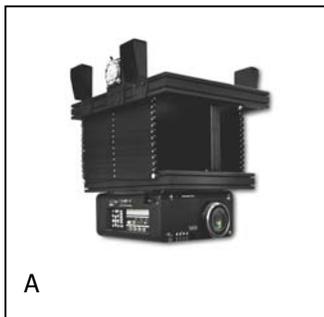
Before installing the projector lift, please read the following instructions carefully:

- **The projector lift must be used indoors only.**
- **It is forbidden to stay under the lift.**
- **Never connect more than one lift motor to the same switcher. Use the supplied switcher only.**
- **In case of maintenance, unplug the power supply.**
- **Please confirm that your projected image width will fit your screen from your proposed mounting location prior to installation.**
- **Incorrect use of the lift, including exceeding the maximum lifting weight, will be dangerous . The manufacturer does not take responsibility for any damage o property or personal injury if the lift is used outside of recommended specifications.**
- **This product uses a 230V AC Motor. Do not attempt to service the motor. Incorrect servicing could lead to risk of electric shock.**
- **For any repairing, please contact directly the dealer you purchased the unit from.**
- **Check at least once a year that the screws of the steel cables are well tightened and that the steel cables are in good conditions. In case they have signs of usage or damages, replace them promptly with the original ones supplied by the manufacturer.**
- **Check every 6 months that screws, wall plugs and brackets are in good conditions and well tightened.**

SUPPLIED EQUIPMENT LIST

When you open the packaging, please CHECK that it contains ALL the components below listed. In case one or more components are missed, please refer to the dealer you purchased the product from.

- A) 1 MECHANIC PROJECTOR LIFT
- B) 4 METAL BRACKETS FOR CEILING MOUNTING
- C) 16 SOCKET HEAD SCREWS 8X20
- D) 16 M8 WASHERS
- E) 16 M8 CROWNED NUTS
- F) RF REMOTE CONTROL
- G) INSTALLATION MANUAL



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CEILING MOUNTING

- In order to mount the four metal brackets shown on Fig. "B" above on the upper aluminium frame of the PPL 2500, please use screws, washers and crowned nuts mentioned on "C, D, E" of the supplied equipment list; put inside the groove of the aluminium frame the crowned nut as shown on Fig. 1A; connect the ceiling bracket to the profile by the socket head screws and the crowned nuts, move the ceiling bracket along the profile in order to position it where needed (Fig. 1B); now firmly tighten the screws of the four brackets.

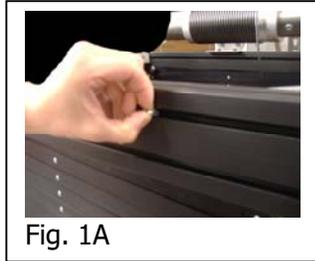


Fig. 1A

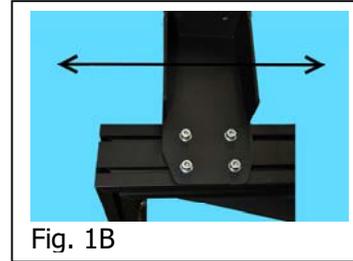


Fig. 1B

- Note: the four ceiling mounting brackets can be mounted in two different ways on the upper frame of the lift:
 - 1- Brackets mounted towards outside – Fig. 8-A – page 7
 - 2- Brackets mounted towards inside – Fig. 8-B – page 7
- Once the four brackets have been mounted on the upper frame of the lift, mount the lift to the ceiling using wedges (not supplied) specific for the type of material to drill. During the installation pay attention that the lift is perfectly leveled both on the width and on the depth. (See Fig. 2).



Fig. 2

ELECTRIC CONNECTION

- Once you have mounted the lift on the ceiling, connect it to power supply following the scheme shown on Fig. 3A; the lift is supplied with a safety mechanism (Fig. 3B) with a double security system: first - this is a mechanic safety system that prevents the steel cable to unroll when the speed has reached 50 rpm, second – this is an electrical security system that forbids the electrical connection of the motor if the force driven on the steel cable, caused by the falling down, is more than 503 Nm.

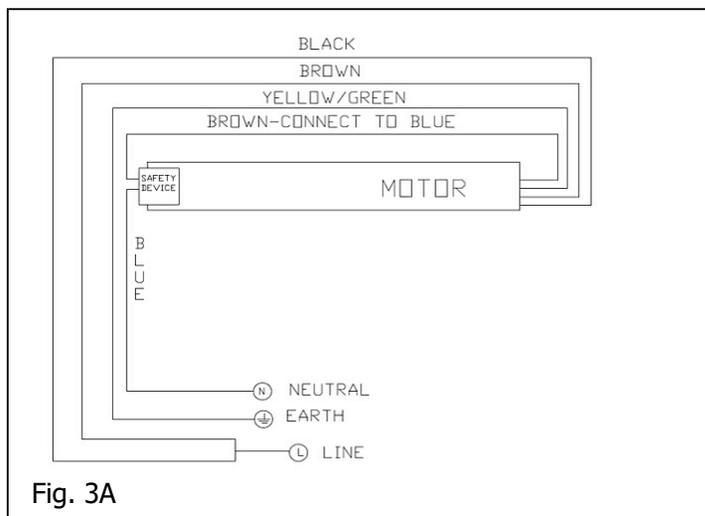


Fig. 3A

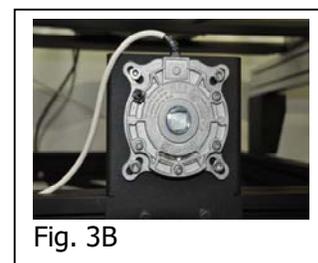


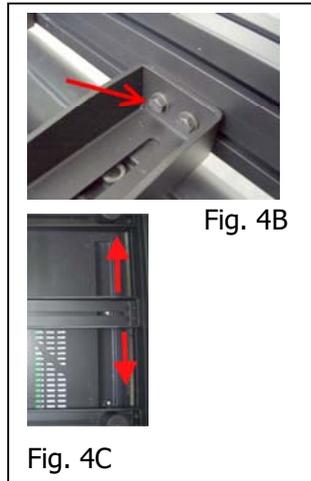
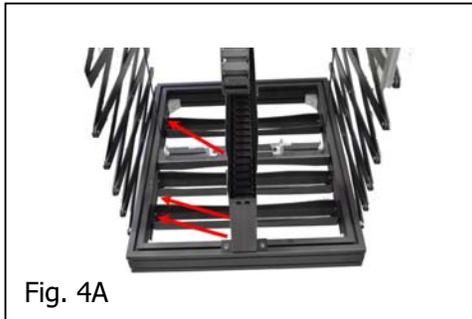
Fig. 3B

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FIXING THE PROJECTOR TO LIFT

- Roll down the PPL 2500 by pushing "DOWN" button on the remote control (Fig. 7A) in order to lower the lift till the lower end-stop, preset in the factory at 2,5 mt. circa. In case you wish to modify the lower end-stop, please refer to instructions on page 5-6.
In order to fix the projector under the lift, position the splines of the three profiles of the lower lift frame, to match the anchoring points on the projector (Fig. 4A).
Undo the four screws as shown on Fig. 4B and position the three profiles where needed (Fig. 4C).
Once you have aligned the splines of the profiles with the anchoring points on the projector tighten the screws and the bolts of the profiles following a cross scheme.

Repeat this step until all the screws on the three profiles will be very well tightened. Insert the screws for mounting the projector in the milling of the profiles (milling depth 10 mm) and tighten the screws in the anchoring points of your projector.



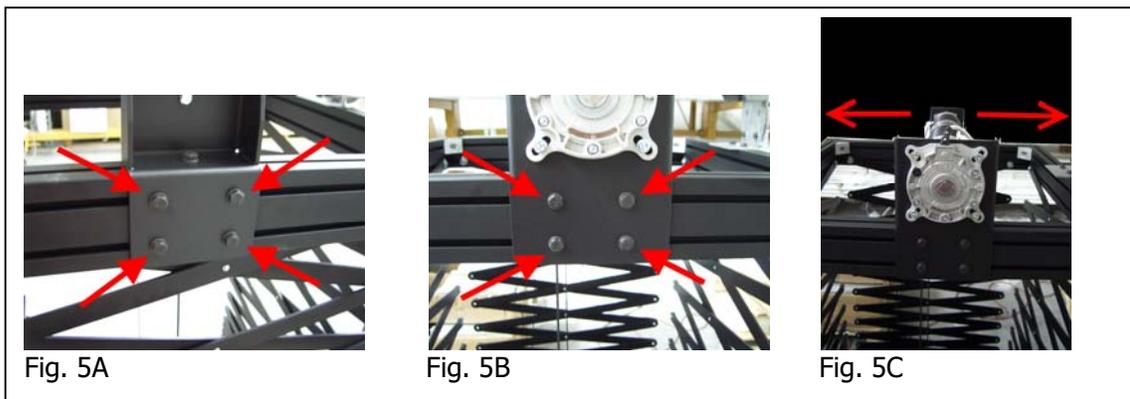
ADJUSTMENT OF PITCHING AND ROLLING OF THE PROJECTOR

Projectors have not a regular distribution of the weight on their surface but tend to have unbalancing caused by the lamp, by the optical system and so on.

Unbalancing could lead to either a right and left rolling or a pitching of the lower lift frame - projector.

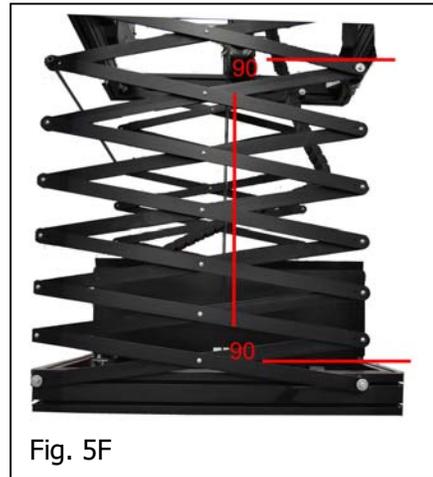
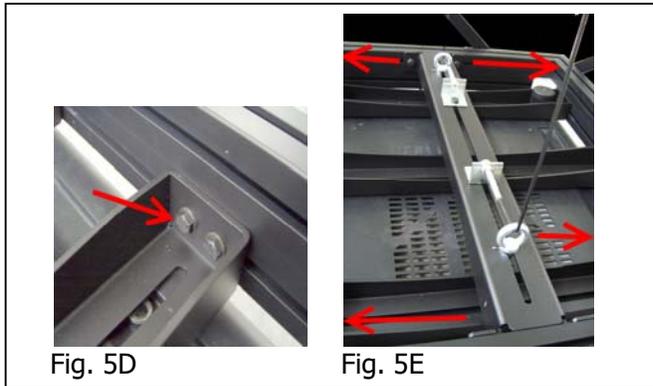
The PPL 2500 have been developed in order to solve these problems and allow to adjust the lift in order to get a perfect balance of the entire lifting system.

In order to adjust PITCHING, please move the motor along the profile where the motor itself is fixed, by loosening the screws as shown on Fig. 5A and 5B and move the motor left or right until the lower frame will be perfectly balanced (Fig. 5C).

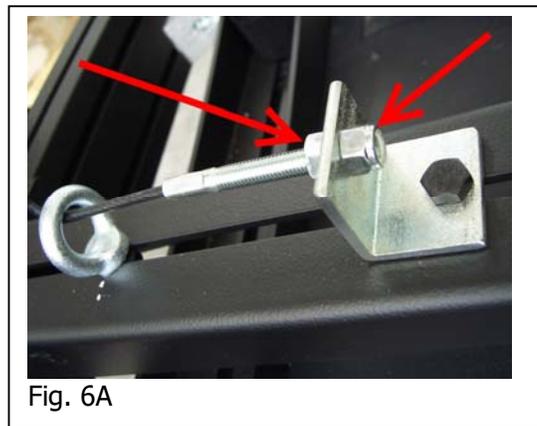


PLEASE, PROCEED WITH THIS STEP, AFTER HAVING LAYED THE PROJECTOR MOUNTED ON THE FRAME ON A SUPPORT SURFACE, IN ORDER TO LIGHTEN THE MOTOR FROM THE WEIGHT.

Now loose the screws on Fig. 5D and by using a rubber hammer, move the profile of Fig. 5E, left or right in order that the steel cables are perpendicular both on the upper part and on the lower part of the lift (see Fig. 5C). At the end of the adjustment tighten the screws firmly (Fig. 5D).



In order to adjust ROLLING, please tighten or unloose the nuts that act on the tension of the steel cables. (Fig. 6A)



ADJUSTMENT OF THE END STOPS PLEASE READ CAREFULLY

The PPL 2500 motorized lift is supplied with a remote control that allows to set three positions:

- 1- CLOSED LIFT: preset by the factory, in closed upper position. **WARNING:** in case the installer needs to modify this end-stop, it is allowed to lower the upper end-stop position. **Do not try to high the upper end-stop because this will cause severe damages to the product and this operation will invalidate the warranty.**
- 2- PROJECTION MODE: intermediate stop position, not preset by the factory.
- 3- SERVICE MODE: lower end-stop position, preset by the factory at 2,5 mt. circa.

How to modify the end-stops:

A- SETTING OF THE LOWER END-STOP (SERVICE MODE)

First, DELETE the LOWER END-STOP as follows. Move the lift down in order to reach the preset lower end-stop by pushing the "DOWN" button on the remote control (Fig. 7A).

Now PUSH THE "PROG" button (little hole on the right side of the remote control that can be pushed by a paper clip)+"STOP" button keeping it pushed for several seconds, UNTIL THE MOTOR CONFIRMS THE CANCELLATION WITH A DOUBLE CLICK.

WARNING: IN CASE THE LIFT HAS NOT REACHED ONE OF THE END STOPS BUT IS POSITIONED HALF WAY, BOTH END-STOPS (UPPER AND LOWER) WILL BE DELETED.

In order to set the desired lower end-stop, lower the lift to the required position, stop it and PUSH "PROG"+"DOWN" buttons of the remote control keeping it pushed for several seconds UNTIL THE MOTOR CONFIRMS THE OPERATION WITH DOUBLE CLICK (between each click will pass approx. 3 seconds).

B- SETTING OF THE UPPER END-STOP

Move the lift to the preset upper end-stop by pushing "UP" button on the remote control. Now PUSH THE "PROG" button (little hole on the right side of the remote control that can be pushed by a paper clip)+"STOP" button keeping it pushed for several seconds, UNTIL THE MOTOR CONFIRMS THE CANCELLATION WITH A DOUBLE CLICK.

WARNING: IN CASE THE LIFT HAS NOT REACHED ONE OF THE END STOPS BUT IS POSITIONED HALF WAY, BOTH END-STOPS (UPPER AND LOWER) WILL BE DELETED.

In order to set the desired upper end-stop, lower the lift to the required upper position, stop it and PUSH "PROG"+"UP" buttons of the remote control for several seconds UNTIL THE MOTOR CONFIRMS THE OPERATION WITH ONE CLICK.

C- SETTING OF THE PROJECTION MODE

Move the lift to the requested intermediate projection mode position. Now, PUSH "STOP"+"DOWN" UNTIL THE MOTOR CONFIRMS THE OPERATION WITH ONE CLICK.

In case you like to DELETE THE INTERMEDIATE STOP (PROJECTION MODE), MOVE THE ELEVATOR UNTIL YOU REACH THE INTERMEDIATE STOP AND PUSH "STOP"+"DOWN" UNTIL THE MOTOR CONFIRMS THE OPERATION WITH DOUBLE CLICK.

D- USE OF THE REMOTE CONTROL

BY PUSHING ONE TIME THE "DOWN" BUTTON YOU CAN REACH THE LOWER END-STOP.

BY PUSHING ONE TIME THE "UP" BUTTON YOU CAN REACH THE UPPER END-STOP.

IN ORDER TO REACH THE INTERMEDIATE END STOP (PROJECTION MODE), MOVE THE LIFT TO REACH THE CLOSED POSITION AND AFTERWARDS PUSH TWO TIMES (WITHIN ONE SECOND) THE "DOWN" BUTTON.

THE LIFT MOVEMENT CAN BE STOP AT ANY TIME PUSHING "STOP" BUTTON.

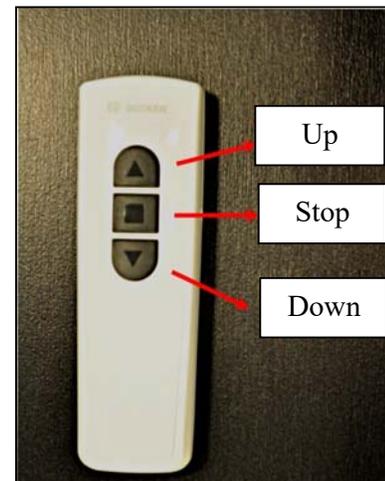


Fig. 7A

The projector lift includes a cable management system. In order to fit in the power and signal cables of the projector Move the lift in the lower end stop position (SERVICE MODE), and open the small doors, as shown in Fig. 7B.

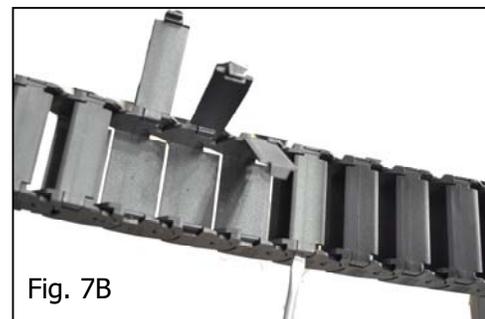


Fig. 7B

TECHNICAL DETAILS

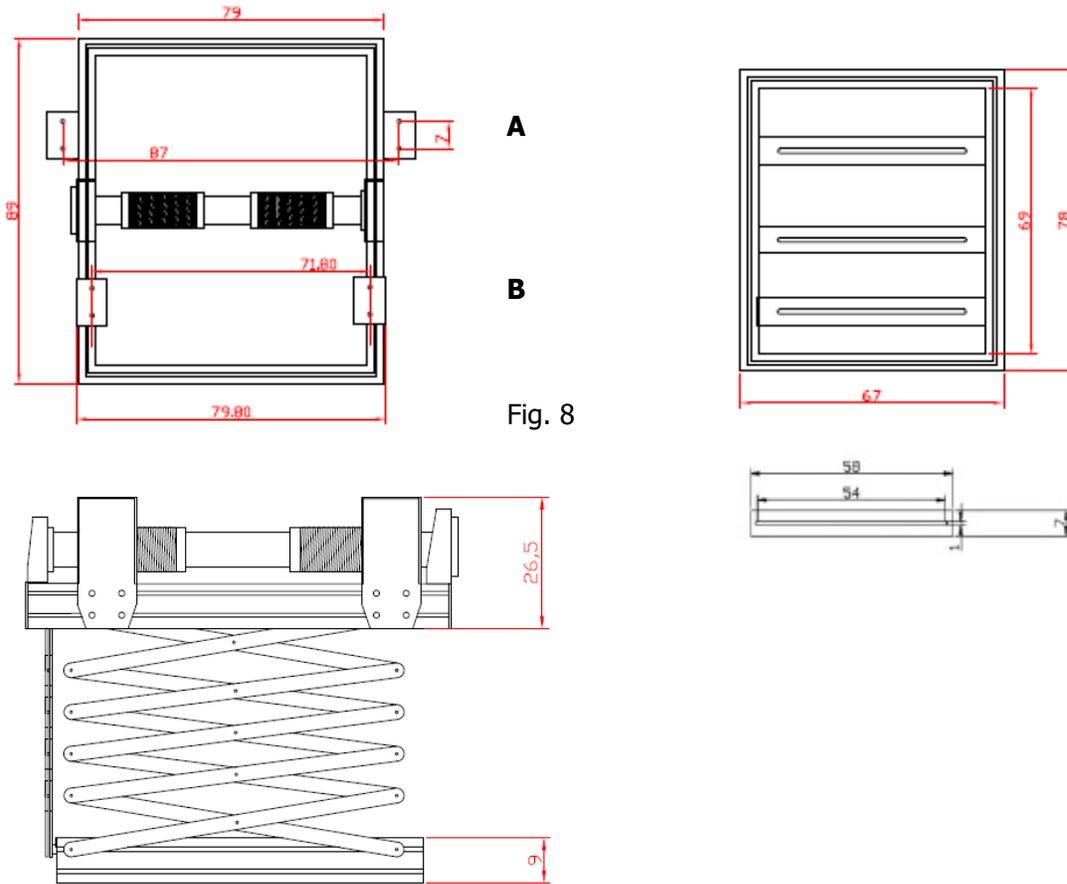


Fig. 8

Power supply	230 V, 50 HZ
Consumption	265 Watt
Torque	60 Nm
Motor speed	11 rpm
Roll up speed	19 sec./ meter
Down speed	24 sec./ meter
Termical stop	after 4 minutes of operation
Net weight lift	kg. 77
Maximum load of the projector	kg. 70
Dimensions closed	79,8x70,5x89 (WxHxD in cm.)
Dimensions opened	79,8x570,5x89 (WxHxD in cm.)

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