

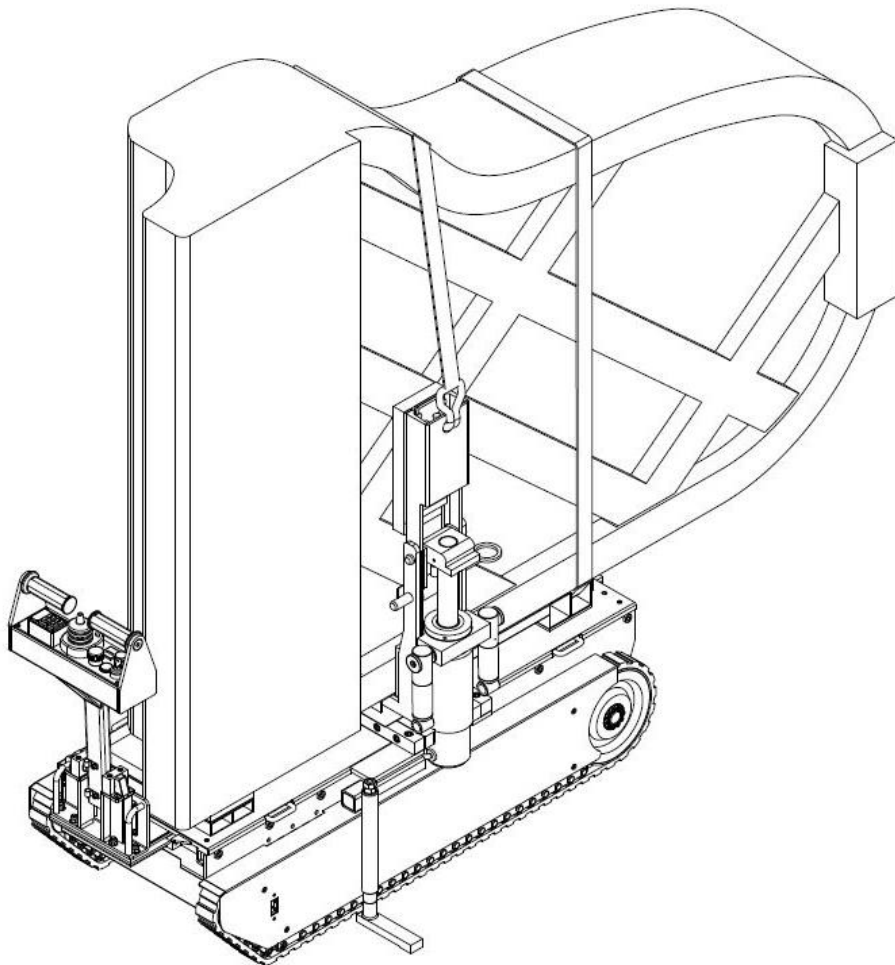


**SARL PIANOLIFT**  
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# **USER MANUEL**

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## **PIANOLIFT 2**



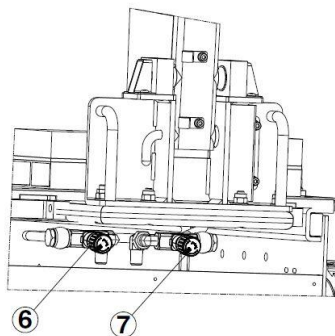
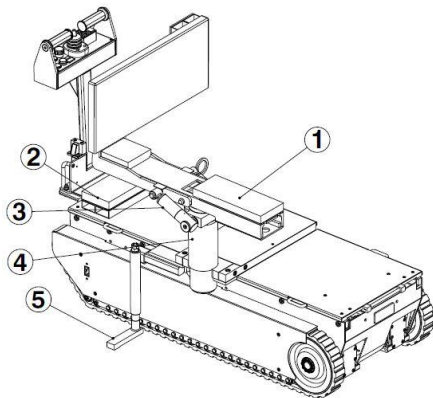
## I. Overview

The Pianolift machine is intended for tilting and transporting grand piano and optionally upright pianos. This manual exclusively relates to the use of the machine when operating the piano tilting. For any further informations about using the Pianoplan, please refer to the detailed CTE instructions supplied with the machine.

## II. Description of the « lifter » part of the pianolift

It is mainly composed of:

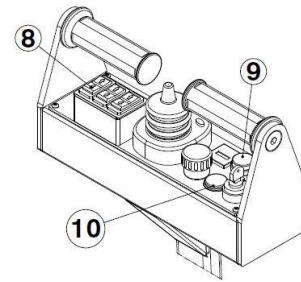
1. An articulated arm actuated by a hydraulic cylinder
2. A fixed front support on which the piano rests in a vertical position
3. Two hydraulic tilt shock absorbers
4. A set of actuator + safety solenoid valve
5. An adjustable and removable side foot.
6. Two hydraulic oil flow rate adjustment valves in the cylinder located at the front under the plate. (6 & 7)



## III. Additional commands

The third switch (8) controls the raising and the lowering of the cylinder by actuating the arm. The green safety button (9) prevents the use of the central leg and the tilting system when moving the machine.

To unlock the security, simultaneously press (9) and the desired command, once the red lamp (10) is on, it is no longer necessary to keep (9) on.



A 3-button remote control can also operate the tilting cylinder of the Pianolift

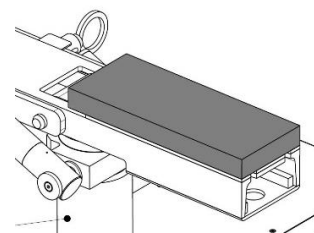


## IV. Loading and unloading of a grand piano

### 1. Different types of grand piano (removable wedge)

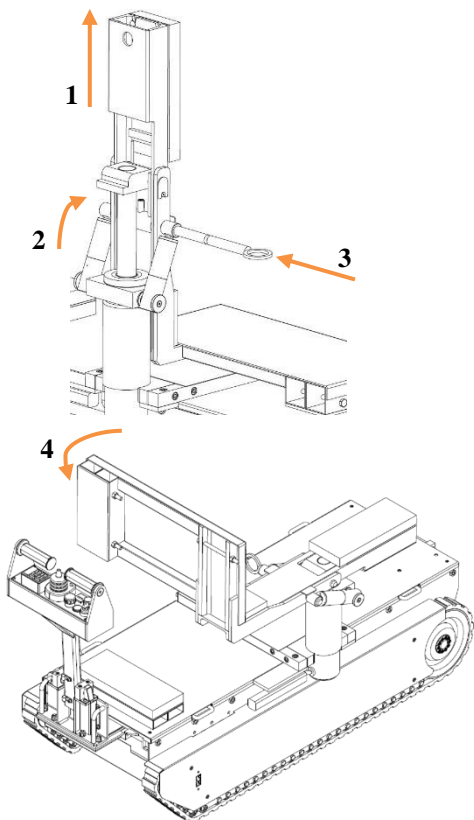
A removable rubber shim of 30 mm is provided with the machine. It is positioned at the end of the hydraulic arm and should be used for a piano which the dam is at the same level as the belt. (Yamaha C3, C5, etc)

Regarding piano brands such as Steinway, Fazioli and a few other, dam is about 30 mm below the belt. In that case you want to remove the shim to compensate the level difference between the dam and the belt.



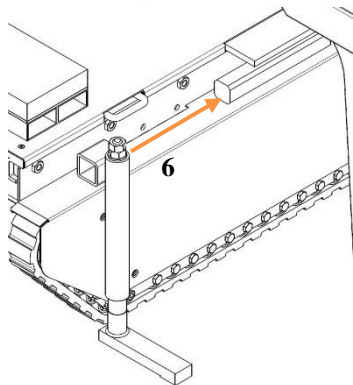
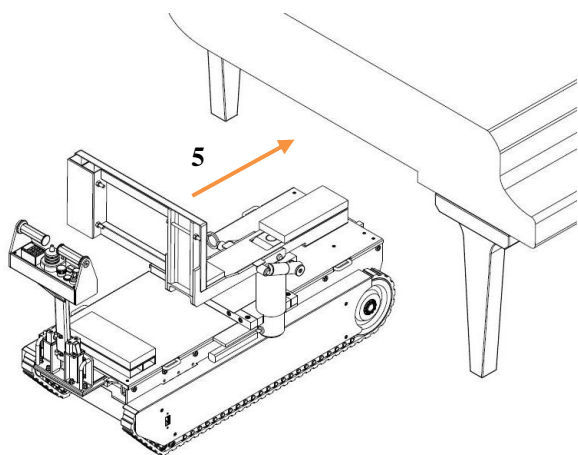
### 2. Ascent phase

- 2.1 Put the arm in a horizontal position:
  - 1 Slightly raise the jack (button 1)
  - 2 Position the shock absorbers in front of the hole where the retaining pin is inserted.
  - 3 Insert the axle until it is locked.
  - 4 Press button 2 until the end of the cylinder stroke in the lower position. Turn the arm in the axis of the machine



## 2.2 Placing the Pianolift underneath the piano :

5. Drive the machine underneath the piano by positioning the arm near the keyboard case until the stainless steel plate comes in contact with the piano..
6. Position the foot and place it **firmly** on the ground



7. Activate the upward movement of the hydraulic cylinder (button 1) until the piano lifts off the ground

8. Put on the two retaining straps and tighten them properly

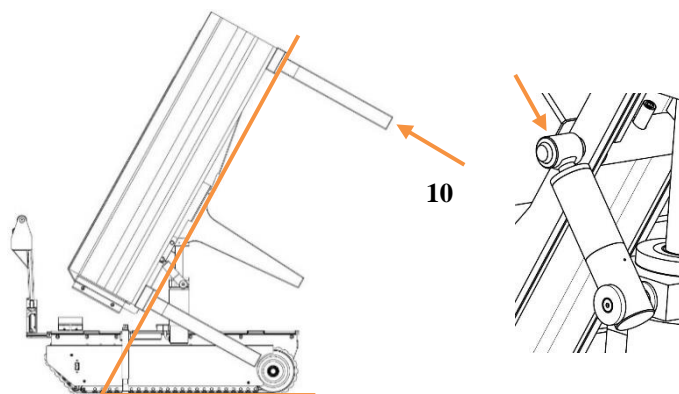
## 2.3 Piano elevation :

9. Press the up button until the piano reaches a vertical angle of approximately 30 °.

**WARNING ! at this point the piano's center of gravity shifts to the other side of the rotation axis.**

The shocks absorbers will compress.

10. Release the button and use your hand to accompany the movement of the piano so that it slowly settles.



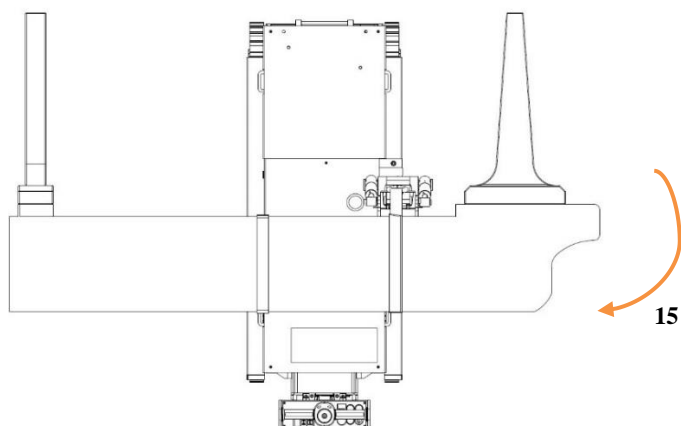
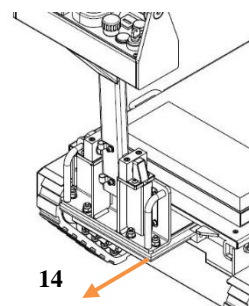
11. Continue the ascent and release button 1 before the piano comes to a stop.

12. Press button 3 so that the piano rests gently on its vertical support.

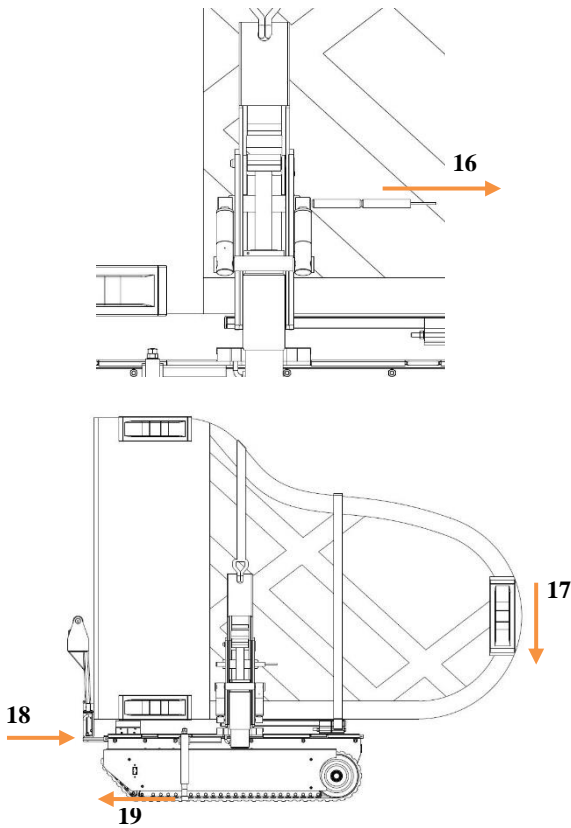
13. Raise the piano to the top stop of the jack then lower it a few millimeters using button 2 in order to be able to turn.

14. Adjust the Pianoplan drawer according to the length of the piano to avoid banging the piano.

15. turn the piano **clockwise** and not the other way around to place in the axis of the machine.



16. Remove the shaft from the shock absorbers and fold them down.
17. Lower the piano onto the machine (button 2) until it comes into contact with the board.
18. Push the drawer back against the piano and lock it **securely**.
19. Remove the foot.



### 3. Descent phase :

Carry out the same operations in the reverse order than the ascent phase.

1. Raise the piano until you can fix the two shock-absorbing arms
2. Make a 90 ° rotation, press the descent button (button 2)
3. **WARNING ! Stop the movement as soon as the center of gravity of the piano switches to the other side of the axis of rotation.**

The shock absorbers will expand.

**Release the button and accompany the piano movement with your hand so that it takes place slowly.**

4. Continue the descent with button 2 or 3 depending on the desired speed until the piano is on the ground.
5. Undo the straps and release the machine.

### 4. Adjustment of hydraulic valves :

#### 4.1 Adjusting the ascent and the descent speed

You can influence the speed of the piano's rise by tightening or loosening **valve 6 and 7 simultaneously**. Tightening the settings slows the oil flow and therefore the rate of rise or fall. You must avoid a too slow ascent or descent so as not to force the hydraulic pump excessively

### Precautions to be taken during tipping maneuvers.

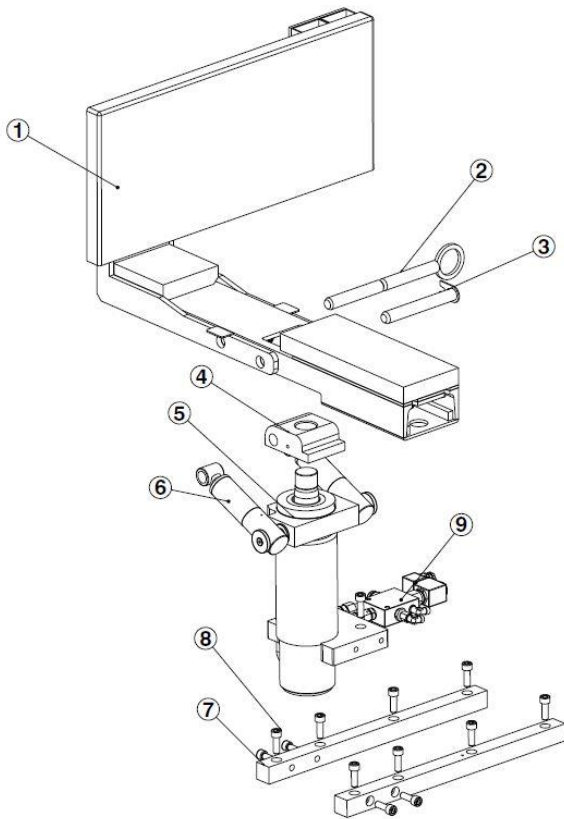
- All the safety and maintenance recommendations mentioned in the operating instructions for the Pianoplan speedy standard are applicable to the use of the Pianolift.
- The Pianolift is designed for tilting and transporting grand pianos.
- Never use the machine to lift any other type of load. This could lead to imbalance and to tip the machine over..
- Always check the tension of the retaining straps which must be tightened firmly.
- Check the setting of the support foot, which must be firmly pressed on the ground without lifting the machine.
- Do not forget to stop during ascent and descent to allow the extension or compression of the shock absorbers.
- Make the rotations must follow the indicated direction, rotation in the wrong direction may be dangerous and cause the machine to tip over.
- Do not forget to adjust the drawer of the machine so that the piano keyboard does not hit it when the piano is rotated in a vertical position.
- Push it back against the keyboard and tighten the retaining bolts to prevent the piano from sliding forward if the machine is tilted backwards when moving.

# V. Spécifications techniques

## 1. Fiche Technique

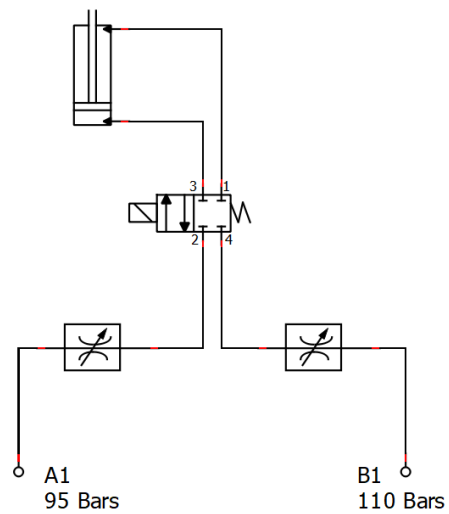
Longueur/length (mm)	1280 Poids/Weight (kg/lbs)	340/750
Largeur/width (mm)	575 Charge admissible/Safe load (kg/lbs)	600/1320
Longueur plate forme/Platform length (mm)	1205 Vitesse de déplacement/Speed (m/min.)	12,5
Largeur plate forme/Platform width (mm)	430 Puissance/Power (W)	2x700
Extension du plateau maximum/Maximum platform extension (mm)	500 Pression hydraulique maximum/Maximum hydraulic pressure (Bar)	130
Hauteur minimum/Minimum height (mm)	390 Batteries/Batteries 2x12 (V)	65 Ah
Hauteur maximum/Maximum height (mm)	745 Autonomie/Range	50 étages/floors

## 2.Components



1. Fork
2. Shock absorber axle
3. Fork Axle
4. Hydraulic cylinder head
5. Hydraulic cylinder
6. Shock absorber
7. Reinforcement bars
8. Screw CHC M10x30
9. Hydraulic valve

## 3.Hydraulic diagram



## 4.Remote control wiring diagram

