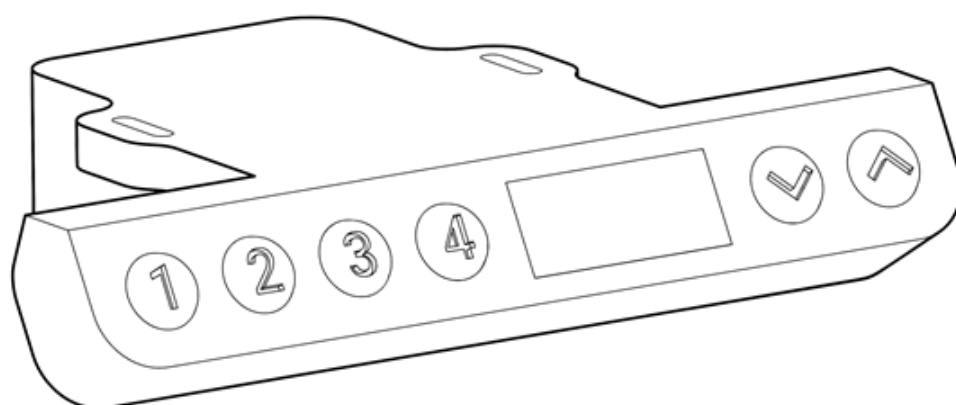# LYFT

# IMPORTANT INFORMATION ⚠️

LYFT is a sophisticated remote control for electric height adjustable desks, compatible with the famous IKEA BEKANT desk. Designed as a plug & play solution, you can easily replace your originally provided remote control. LYFT comes completely assembled and is ready to use out of the box.

This project is an open-source DIY project and comes therefore without any liability or warranty. Usage of LYFT is always at your own risk. The originator is not liable of any damage the remote might cause. All source files are published on GitHub (*github.com/mgkoenig/lyft*) and licenced under the GPL-3.0 license. Feel free to take a closer look at the design or to improve LYFT with even more useful features customized to your needs.

All product and company names are trademarks™ or registered® trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. IKEA is a registered trademark of Inter IKEA Systems BV.
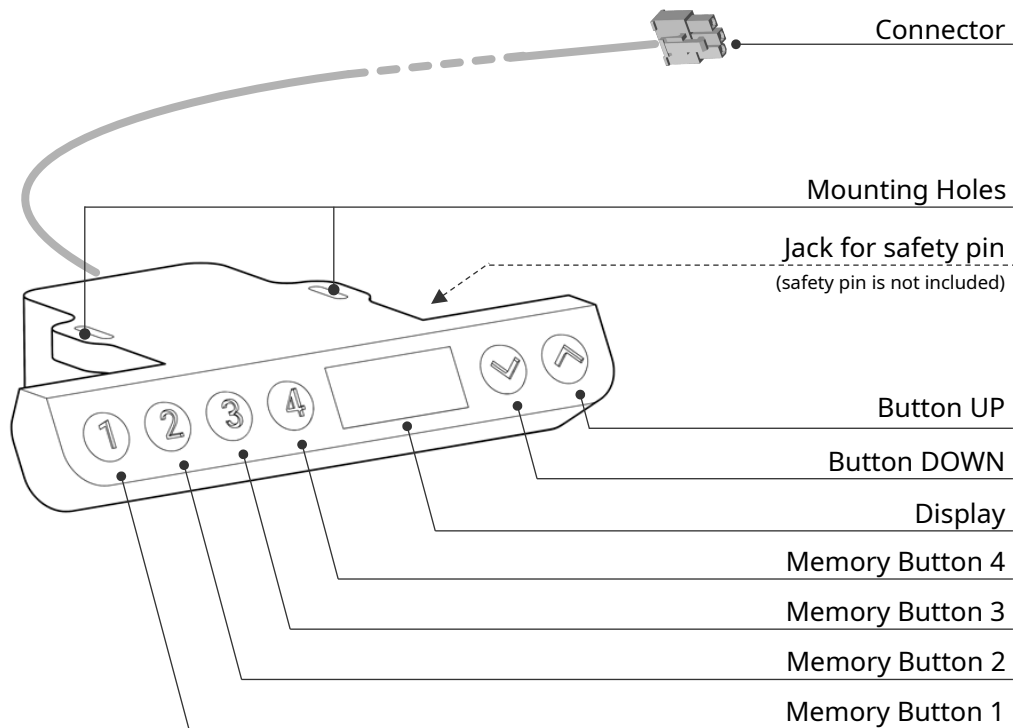
***Disclaimer of liability:*** In no event shall the originator be liable for any direct, indirect, punitive, incidental, special, consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of this product.

***Exclusions from warranties:*** By purchasing this product you expressly agree that use of this product is at your sole risk. The originator does not and cannot warrant that the product will operate without errors.

All information and products described in this manual are provided on an "AS IS" basis. The originator does not make any representations or warranties of any kind, express or implied as to the operation of this product or the information made available to you, including implied warranties of merchantability and fitness for a particular purpose.

Furthermore, the originator's warranties for this product exclude any claims by the customer based on defects in the product caused by the customer, or by third parties beyond the originator's control.

## FUNCTIONAL LAYOUT

Connector

Mounting Holes

Jack for safety pin
(safety pin is not included)

Button UP

Button DOWN

Display

Memory Button 4

Memory Button 3

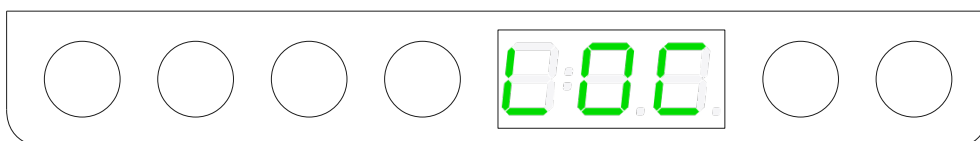Memory Button 2

Memory Button 1

## INSTALLATION

In order to use LYFT, choose your preferred handling side and mount the remote control on the bottom edge of the desk. Use the destined mounting holes on the housing. Since no screws are provided with the shipment, you might use the original screws which were delivered together with the desk or use any two conventional [3 x 16mm] or [4 x 5/8"] wood screws instead.

Finally plug the cable into its designated connector on the motor box. You can find the motor box on top of each leg (beneath the table top). If you're uncertain how to connect the cable, refer to the original IKEA BEKANT assembly instructions.
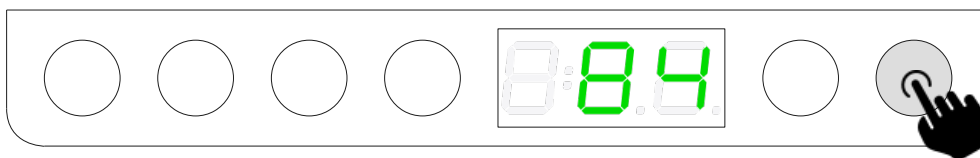
# BASIC FEATURES

## SAFETY PIN

LYFT is equipped with a safety mechanism to prevent unintended desk movements. Therefore, a safety pin must be plugged in whenever you want to change the desk height or configuration settings. The safety pin is not provided with the LYFT remote control, but fully compatible with the safety pin that comes with your IKEA BEKANT desk. If you have lost your pin, you can easily (and mostly for free) order it as a spare part from your local IKEA store. Please find the correct part number in the original assembly instructions. If no safety pin is connected, all features are locked and the display shows the following screen:
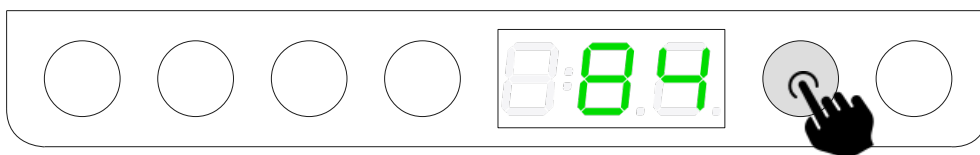
## MOVING UP

To move your desk upwards, just **press and hold** the **UP button** on your LYFT remote control. The motors will automatically stop as soon as you release the button or the upper limit of the height is reached.
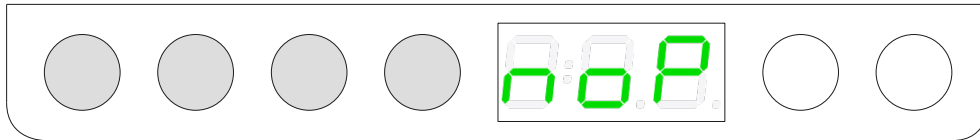
## MOVING DOWN

To move your desk downwards, just **press and hold** the **DOWN button** on your LYFT remote control. The motors will automatically stop as soon as you release the button or the lower limit of the height is reached.

## MOVING TO A SAVED POSITION

If you have previously saved a comfortable desk position to one of the memory buttons (see the description in the upcoming settings chapter), you can move the desk to this height by pressing and holding the corresponding button. In case no position was saved so far, the display shows the following screen:
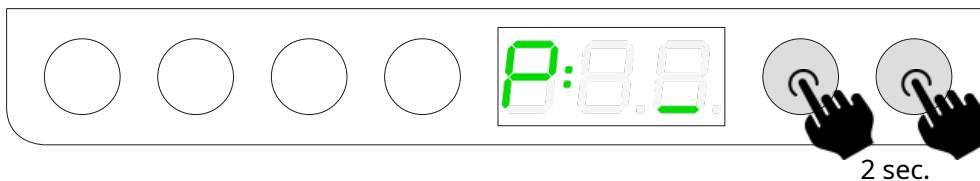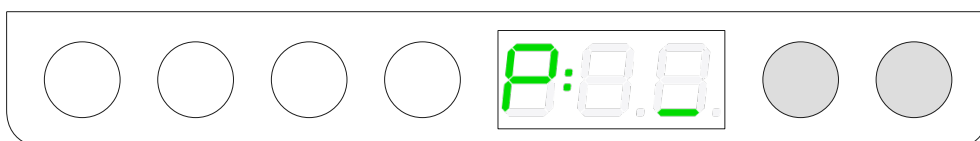


## SETTINGS MENU

### ENTER THE SETTINGS MENU

In order to make any changes of the settings or to save a current desk position, you need to enter the settings menu. The menu is accessed by pressing the **UP and DOWN** buttons **simultaneously** for at least **2 seconds**.



2 sec.

### NAVIGATE THE SETTINGS MENU

You can walk through the settings menu by using the UP and DOWN buttons to scroll to the next or previous page respectively.
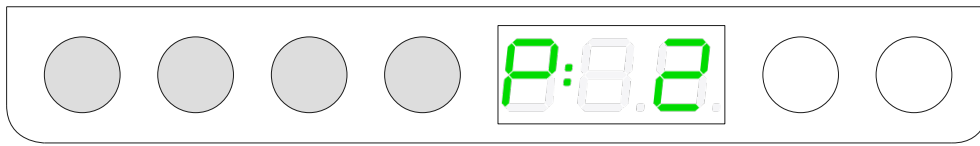


### LEAVE THE SETTINGS MENU

To exit the settings menu nothing special has to be done. Six seconds after the last button was pressed, the menu will save all its current settings and return to its default screen, showing the desk height.
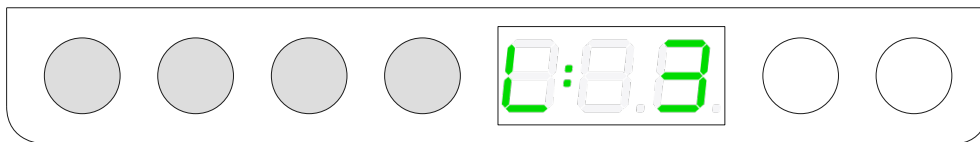
# SAVE A POSITION [P]

To save the current desk position, just enter the settings menu. The first entry of the menu shows a [P] which stands for *position*. By pushing one of the four memory buttons you will save the current height to the selected button.
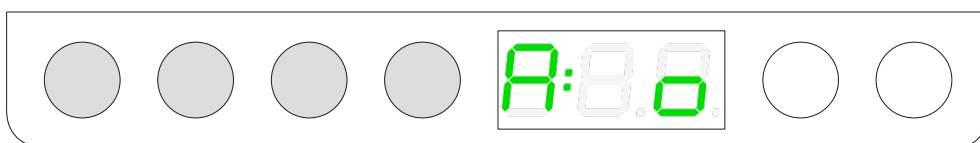
# DISPLAY BRIGHTNESS [L]

You can change the brightness of the display to four different levels. Navigate within the settings menu to page [L]. Then, select the intensity by pushing one of the four memory buttons. Each button sets the brightness to a pre-defined value.
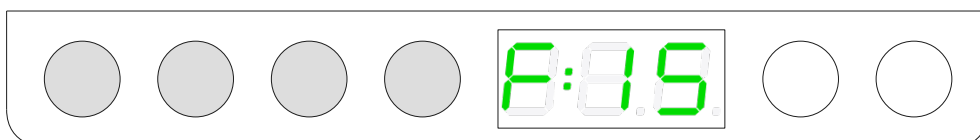
# AUDIO CONTROL [A]

LYFT is equipped with a built-in audio transducer to generate audio signals and alarms. You can set the volume of these signals or turn them off completely. Navigate to menu page [A] and set your preferred loudness pushing one of the four memory buttons. Button 1 will turn this feature off while the others set a certain volume level. A beep tone will demonstarte the selected volume after each keystroke.
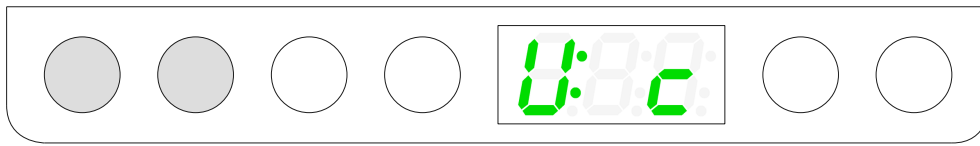
# DISPLAY-ON TIME [F]

After pushing a button or adjusting the desk height to your preferred position, the display will stay on for a couple of seconds. You can change the display-on time on menu page [F]. Choose between 5, 10, 15 or 20 seconds display-on time using the memory buttons.
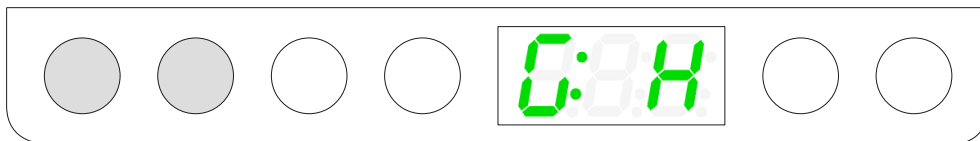
## MEASUREMENT UNIT [U]

By default the height of the desk is shown in **c**entimeters. However, you can change the dispayed unit to **in**ch. Go to the unit page [U] within the menu and select your preferred measurement unit using memory button 1 or 2.
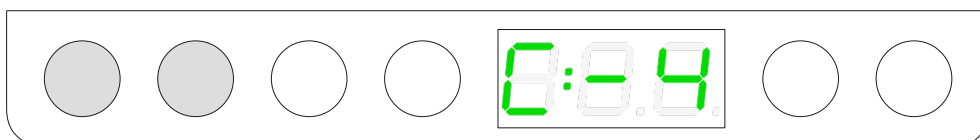
## DESK MOVING MODE [G]

LYFT supports two driving modes to move the desk to saved position – either manually ('hand-driven') or automatically. When **H**and-driven mode is selected, you need to press and hold the designated memory button until its final desk height is reached. If **A**utomatic mode is selected, you just need to press the memory button for 1.5 seconds, then the desk moves by itself to the final position without further interaction. An automatically moving desk can be stopped by pushing any button on the remote control. Use memory buttons 1 or 2 to select your preffered moving mode.
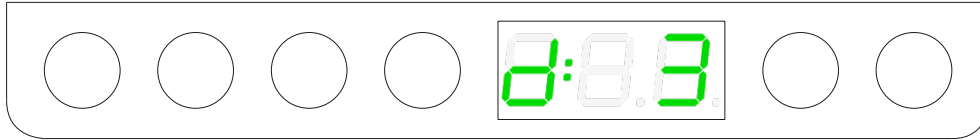Please note: manual mode is safer while automatic mode is more comfartable.

## LEVEL CORRECTION [C]

The shown desk height might not be accurate due to level adjustment screws or a thicker tabletop. Therefore, you have the opportunity to tune the displayed position. Go to the level correction page [C] and set an offset value to the current height. The offset range is between plus/minus 9 centimeters. The offset value is always set as centimeter value – no matter which measurement unit you have selected. Use memory buttons 1 or 2 to increase or decrease the value.

# DRIFT INFORMATION [d]

This menu page is just an informational entry. The drift value tells you the absolute variation of both motor positions to each other (the smaller the value the better). However, please keep in mind, this value does not represent centimeters or inches – it's related to an internal counting value.



## TROUBLESHOOTING

In rare cases, it might happen that the motors don't respond to entries of the LYFT remote. This error is related to a failed initialization process during the start up phase, when the remote was connected to the motor box.

In such a case, please disconnect your IKEA BEKANT desk from the power outlet for five minutes and try again. You can still double-check the flawless operation of your desk using the original remote control.

## ACKNOWLEDGMENTS

Many thanks to Marian for his generosity and support! He enriched this project continuously with great ideas, designed and produced a fabulous housing for the LYFT remote control.

Thanks to Greg Cormier and his megadesk project (*github.com/gcormier/megadesk*) for sharing his findings about the IKEA BEKANT functionality and bus communication.

All icons by icons8.com.