

# FORKLIFT\_ SIMULATOR



## THE FORKLIFT SIMULATOR GETTING STARTED

A start up guide to  
your Forklift Simulator.



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# THE FORKLIFT-SIMULATOR - UNBOXING

## UNBOXING THE FORKLIFT-SIMULATOR - WOODEN CRATE

If your unit has been shipped in a wooden shipping crate follow the instructions below. If your unit was delivered in the optional Flight Case, see p.5.

Assure the Wooden Crate has not been damaged through transportation.



1. Remove the screws that hold the lid and remove the top. Then, remove the front panel.



2. Remove the beam(s) that hold the simulator in place. To do so, remove the screws from the sides.



3. With a forklift, evenly align the forks to the entry points of the Forklift-Simulator. Lift the Forklift Simulator several inches and remove the crate. Once the crate is removed, slowly set the Forklift-Simulator to the ground. From this point on you can easily move the unit around using a hand pallet.



4. The headset, keyboard and power cable are stored in the foot compartment.

# THE FORKLIFT-SIMULATOR - UNBOXING

## UNBOXING THE FORKLIFT-SIMULATOR - FLIGHT CASE

If your unit has been shipped in the optional Flight Case, follow the instructions below. If your unit was delivered in a wooden shipping crate, see p.4.

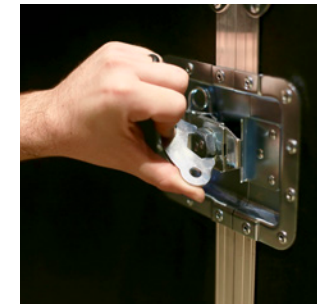
Assure the Flight Case has not been damaged through transportation. Check if the wheels and wheel locks are properly operating.



1. Position the flight case so that you have enough room to walk around it. We recommend to lock the wheels.



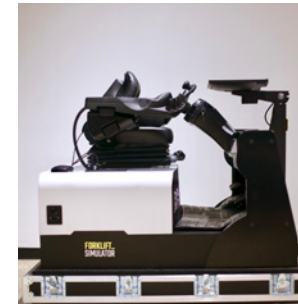
2. Unlock all 12x Latches on the Forklift-Simulator.



3. To unlock a latch, flip up the butterfly lever and turn counter-clockwise.



4. Once all latches are unlocked, grab the handles and lift the flight case up, then move it to the side. We recommend two people to remove the case. Remove both lids.



5. With a forklift, evenly align the forks to the entry points of the Forklift-Simulator. Lift the Forklift Simulator several inches above the flight case so that you can roll the flight case out of the way. Once the flight case is removed, slowly set the Forklift-Simulator to the ground. From this point on you can easily move the unit around using a hand pallet.



### PRO-TIP

When storing the Forklift Simulator back into the Flight case, lift the Forklift Simulator and roll the bottom case underneath the Forklift and slowly set it down.

# THE FORKLIFT-SIMULATOR - HARDWARE

## THE FORKLIFT-SIMULATOR - SETTING UP THE UNIT

To set up your unit for use, follow these simple steps.

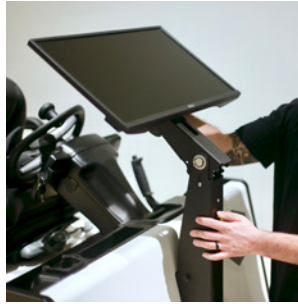
### SETTING UP THE MONITOR SUPPORT



BEFORE



1. Locate the Yellow latch at the front of the monitor.



2. Place one hand on the back of the monitor and one hand on the yellow latch.

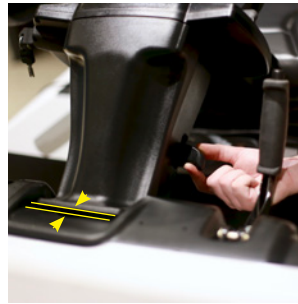


3. Push the yellow latch down and position the monitor to stand straight. You will hear the monitor lock into position.



AFTER

### ADJUST THE STEERING WHEEL



Pull the steering lever up and adjust the steering wheel to the desired position. We advise you to position the steering column so that the front edge of the top cover is aligned with the line on the underlying dashboard.

# THE FORKLIFT-SIMULATOR - HARDWARE

### ADJUSTING THE SEAT



Pull the seat adjustment lever up and slide the seat in the desired position. You can also adjust the suspension of the seat with the middle lever.

### ADJUSTING THE BACKREST

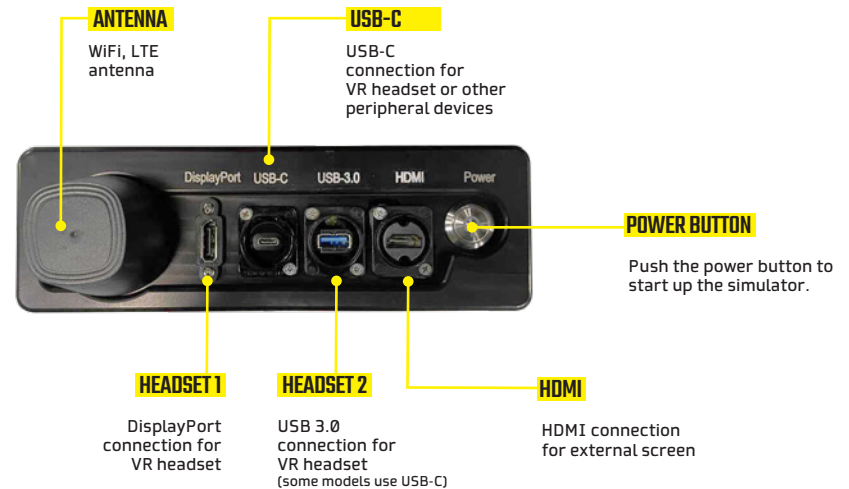


The lever to adjust the angle of the back rest is located on the side of the seat opposite of the side with the armrest. Pull the lever up and adjust the back rest in the desired position.

### CONNECTING THE POWER

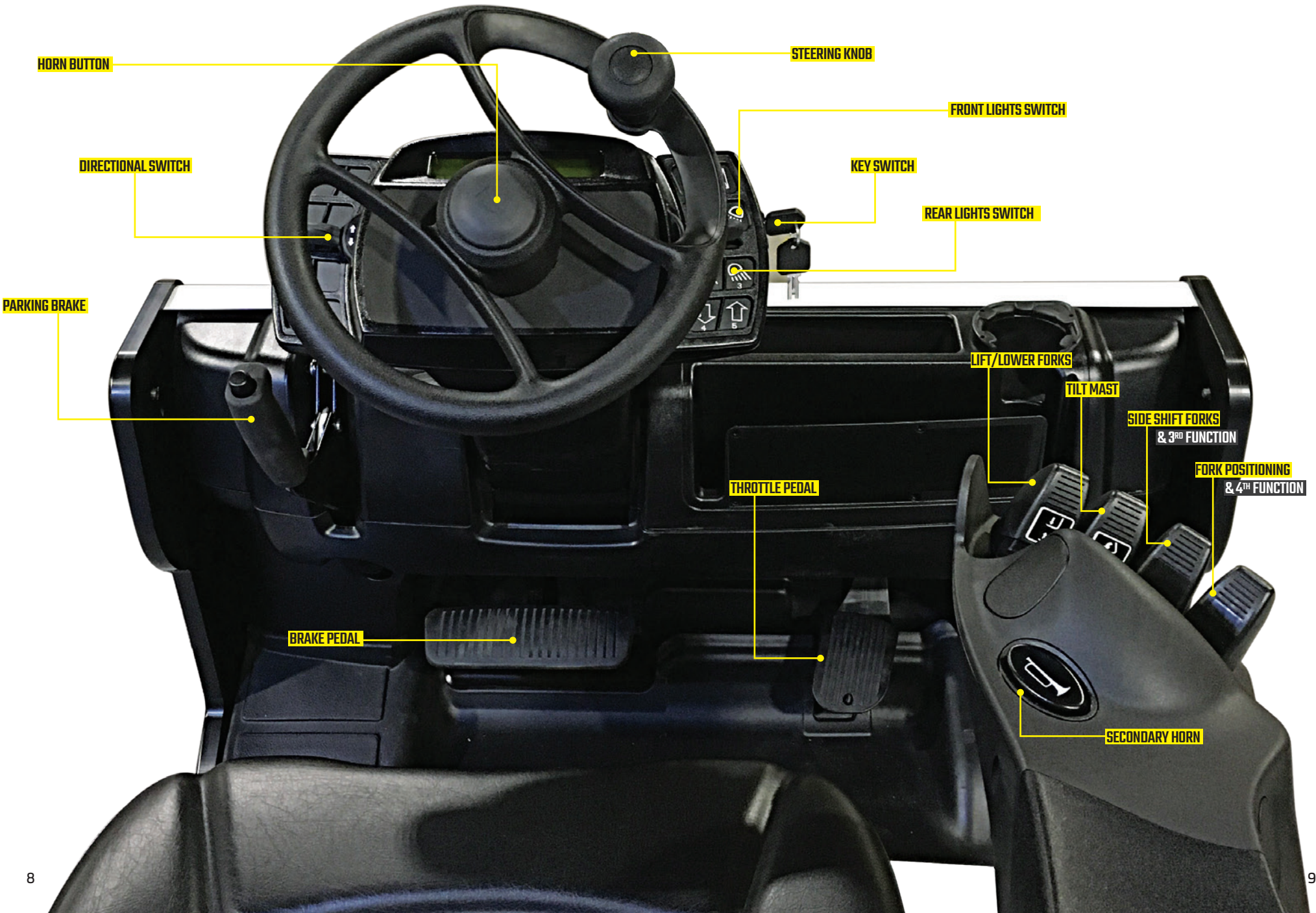


Plug the power cord into the Forklift-Simulator and power socket.



# THE FORKLIFT-SIMULATOR

# GENUINE FORKLIFT CONTROLS



## SETTING UP - HEADSET

### HOW TO PROPERLY USE THE VR HEADSET

A best practice guide on how to deliver a Forklift Simulator experience to new and experienced users.

### MAINTENANCE

Clean the lenses free of smudges and dust particles.  
Avoid scratching the lens by using high quality lens cloths.  
You can use anti-septic wipes to sanitize the headset.

### ASSURE COMFORT AND VISUAL CLARITY

Release the top velcro strap.

Enter in the headset, eyes first while fitting the back of head.  
(Put it on like a baseball cap, forward to back.)

You can tighten the headset by adjusting the velcro straps on the sides.  
Then fasten the top velcro strap.

Assure that the lens is placed over the eyes where the image is most clear!  
If the image is not sharp, move the headset up or down a little and reposition. There is a sweet spot in the middle of the lenses.

On the bottom of the headset you will find a slider that can be used to adjust the interpupillary distance. (distance between the lenses)

**PRO-TIP** If the position of the headset is falling over the eyes, tighten the top strap.  
Experience that is not in focus can stimulate motion sickness.

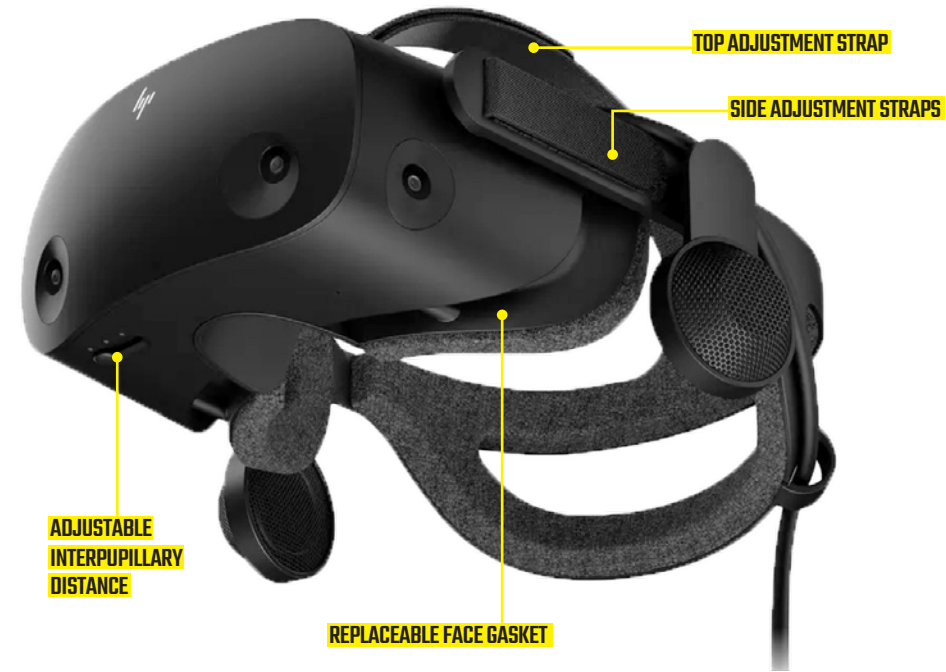
Users with glasses should be extra careful with putting on the headset.  
Enter in the headset glasses first. Once their glasses have passed through the headset, fit the back of headset to the back of head.

### GETTING STARTED

Important to remember that first time users should ease into their first VR experience!  
Making the user feel comfortable is key.

Once a lesson has been chosen, begin by having users look around the environment.  
Encourage the user to look behind them, above them, and carefully leaning outside the truck. When the driving portion of an exercise begins, start by driving slowly around the environment.

## SETTING UP - HEADSET



**PRO-TIP** It usually takes 2-3 trials before first time users get acclimated to the VR technology. Users will build a higher tolerance overtime.

If user cannot proceed with VR simulation, help remove the headset and have them relax until they are ready to proceed.

### REMOVING THE HEADSET

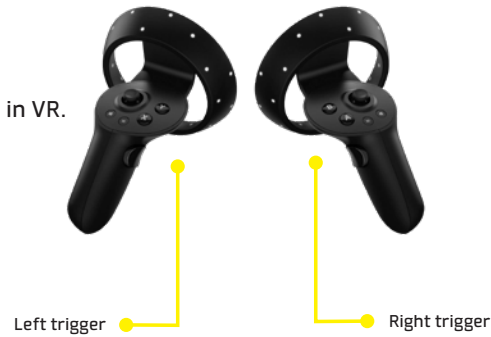
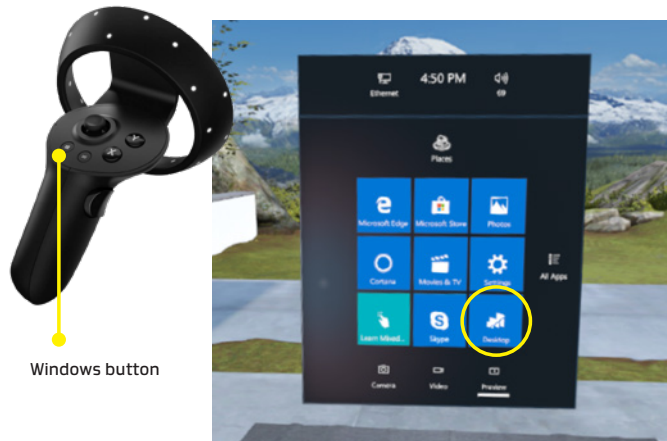
Release the top velcro strap and remove the headset.

For additional information on the use and maintenance of the headset please read the original headset manual that is included in the box.

# HEADSET CALIBRATION

## HEADSET CALIBRATION

At some point you might need to reset the headset calibration. To do so you need the hand controllers included in the headset box. Put the wrist straps on, put the headset on and follow the instructions in VR.



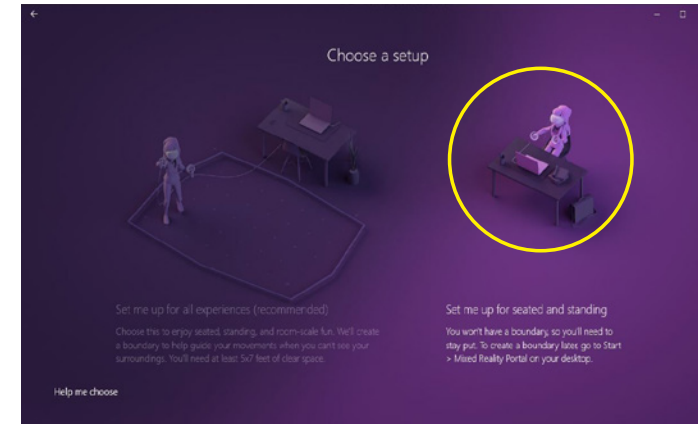
### OPEN DESKTOP IN VR

Push the Windows button on one of the controllers to open the Windows Mixed Reality VR menu and select 'Desktop'. This will allow you to see the Windows desktop in VR. You can use the controllers to navigate by pointing and using the trigger button.

### SELECT EXPERIENCE

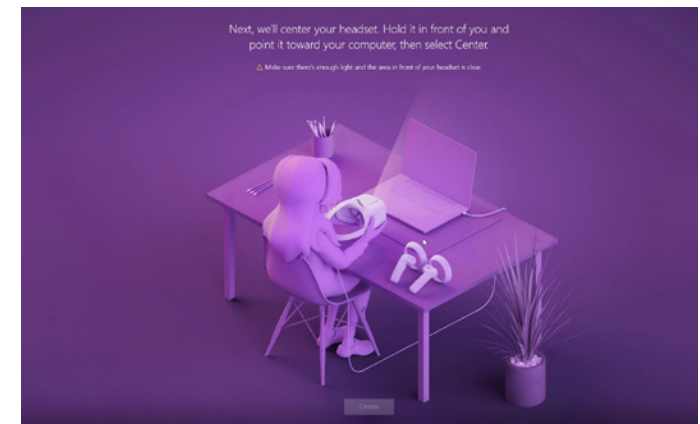
Select the seated and standing setup option on the right side.

# HEADSET CALIBRATION



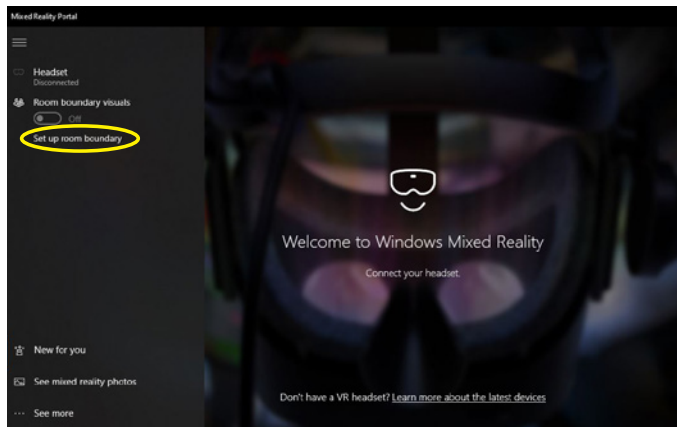
### CENTER THE HEADSET

While still wearing the headset, make sure you are positioned on the simulator looking in forward direction (towards the mast). Then, using your controller, select 'center'. Your headset should now be re-centered and calibrated.



### RESET ROOM BOUNDARY

On your desktop, maximize the 'Mixed Reality Portal' application. Open the menu by clicking the menu icon in the top left corner. Then select 'reset room boundary'



# FORKLIFT-SIMULATOR SOFTWARE

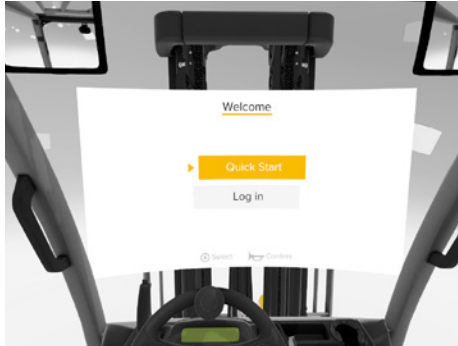
## CALIBRATION

At startup you will be asked if the simulator needs to be calibrated. If you feel that the actual controls match the position of the virtual controls, select 'skip' and use the horn to proceed.

Select 'calibrate' to start calibration. In calibration mode, use the minilevers to move the position of the truck until the virtual controls match the real controls. Once set, hit the horn to proceed.



Calibration functions using the control handle.



Quickplay or Log in

## MENU AND NAVIGATION

In general the steering wheel is being used to scroll through the menus. Turn the steering wheel left to move the selector up, turn the steering wheel right to move down.

Use the horn in the middle of the steering wheel to select or acknowledge.

When in a sub-menu, you can always go up one level in the menu by selecting the back button on top of the menu.

## QUICKPLAY - LOGIN

### QUICKPLAY MODE

This mode can be used by anyone. No individual results will be saved and progress will not be tracked in this mode.

### LOGIN MODE

If you're company has access to the LMS that allows individual drivers to log in and track their progress you can choose to log in with the pin code provided to you by the system's administrator. Individual results will be saved enabling both driver and trainer to track his/her progress over time.



'Handling Loads' Menu of the default CB Curriculum

# FORKLIFT-SIMULATOR SOFTWARE

## HEALTH & SAFETY WARNING

When in Quickplay mode you will need to acknowledge the Forklift-Simulator disclaimer at the start of each exercise to be able to proceed. You can acknowledge by simply pressing the horn button on the middle of the steering wheel.

When Logged in you will only need to acknowledge this disclaimer once after login.



Forklift-Simulator disclaimer

## COMPLETING AN EXERCISE / IN GAME MENU

When an exercise is completed, a new screen will appear showing the results and acquired medal. At this point you'll have three options:

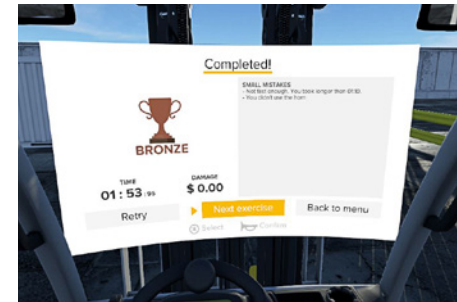
Retry: Restart the same exercise and try to improve your result.

Next exercise: Immediately skip to the next exercise in the current level.

Back to menu: Return to the exercise selection menu.

Use the steering wheel to select and the horn button to acknowledge.

During an exercise you can access an expandible menu located under the head up display. Center your view on the circle with 3 horizontal lines and it will expand. Here you can exit the exercise, access the language/units menu or set a comfort mode.



Results page



Head Up Display and expandible menu

# THE FORKLIFT-SIMULATOR - SHUTTING DOWN

## SHUTTING THE DOWN THE FORKLIFT-SIMULATOR

To shut down the unit all you need to do is push the power button. The unit wil shut down and will be waiting for the next ride.

**PRO-TIP** Treat the Forklift-Simulator as any other computer and do not unplug the power cord until the unit is completely shut down.



# THE FORKLIFT-SIMULATOR - TRANSPORT

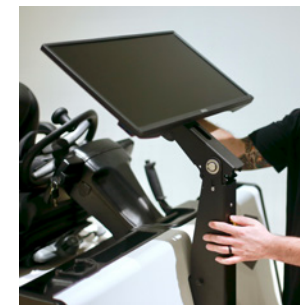
## PREPARING THE UNIT FOR TRANSPORT / STORAGE

When transporting or even storing the Forklift-Simulator, we strongly advise the use of the optional Flight Case. It is designed to protect the unit from impact, dust and spray.

The Flight Case must be transported upright and must be handled with care at all times and should be stored in a dry and clean enviroment.



1. Shut down the unit by pushing the power button once.



2. Fold down the screen and make sure the lock snaps into position.



3. If you do not have the optional flight case you can store the unit like this. (not for transport)



4. Lift the Forklift Simulator and roll the bottom case underneath the Forklift and slowly set it down.



5. Place both covers. Pay attention to the latches when positioning the covers. 2 persons recommended.



6. Lock the latches by turning the butterfly levers clockwise.

# THE FORKLIFT-SIMULATOR - TROUBLE SHOOTING

Problem		Solution
1	The unit does not turn on	Check if the power cable is connected and try another device on the same power outlet to make sure there is power. If there is power and the unit is connected, but still doesn't turn on contact support@forklift-simulators.com
2	The front screen remains black	Make sure the screen is turned on and check if the input is set to 'DisplayPort'.
3	The headset does not display any image.	Double check if the cable is properly connected to both the simulator and the headset. Sometimes it might take a few seconds for the image to appear after putting on the headset. To check the connection on the headset, remove the foam face gasket, follow the cable to where the connector is inserted into the headset and double check if the connector is inserted all the way.
4	None, some or one of the controls is not working	Set all controls to neutral starting position: Key switch off, Parking brake engaged and gear set to neutral. Shut down the unit by pushing the power button. Next, unplug the unit for at least 1 minute. Start up and retry. If the problem is not solved contact support.

For all other questions, please contact support@forklift-simulator.com

## CONTACT

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