

AIRFRAME*FLEX*[™]



QUICK START GUIDE

(858) 668-5381 info@levitatetech.com www.LevitateTech.com

Manufactured by Levitate Technologies Inc. San Diego CA USA Assembled in USA – 101394 Rev 0



Airframe Flex™

Welcome to the Quick Start Guide.

The Airframe Flex™ comes preset from the factory for the average user. It is highly adjustable for the optimum user experience.

See pages 2-3 for examples of proper fitment. If you need to make adjustments, here are instructions for the most common adjustments:

Straps 4-5
Spine
Armrest8-10
Cassette 11-13

Some adjustments require

Torx T20 tool, included on

A few notes to help with getting the most out of your adjustments:

- Whenever possible, make adjustments while user is wearing the Airframe Flex.™
- Make adjustments with the user's arms are out of the armrests, so no load is on the Airframe Flex.™
- 75% of the load should go onto the hips while 25% goes onto the shoulders.
 Shoulder and belt straps can be adjusted to direct load onto the hips or shoulders.
- Adjust the Airframe Flex[™] to fit as snugly as possible without impeding motion or comfort of user.



Proper Fitment



Proper Fitment

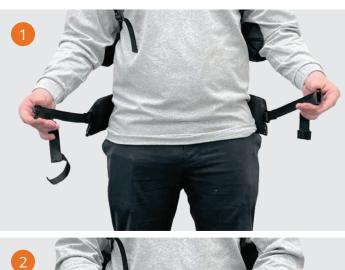
Armrest as close to elbow as possible without impeding motion.

Hip Pads firmly seated on hips, supporting 75% of the load.



Straps Adjustment

WAIST BELT





CHEST STRAP





Tighten or loosen Waist Belt to keep hip pads firmly on hips.

① Note, 75% of load should be on hips.



Adjust the Chest Strap to fit snugly on the user's torso without impeding motion or comfort.

Straps Adjustment

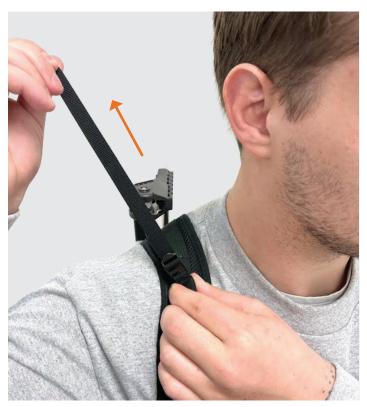
SHOULDER STRAPS



Tighten or loosen the Shoulder Straps to fit snugly on the user's torso without impeding motion or comfort.

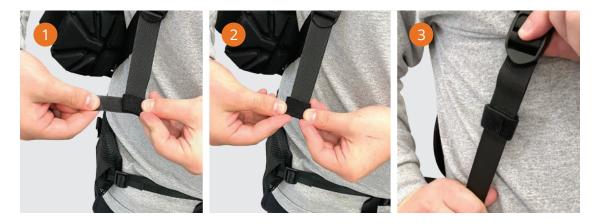
Note, 75% of load should be on hips, not on shoulders.

SHOULDER BELTS



Adjust the Shoulder Belts to keep the Frame fitting snugly against the user's back.

STRAP MANAGEMENT



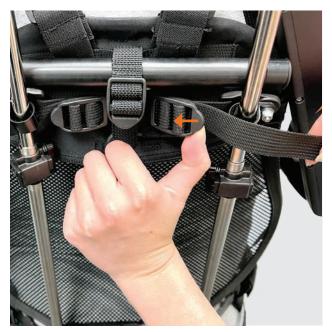
Roll excess Belt up to the buckle, then wrap double sided Velcro around the rolled material.

Spine Adjustment

SPINE WIDTH



Spine width can be adjusted on both the top and bottom by using the left and right Straps.



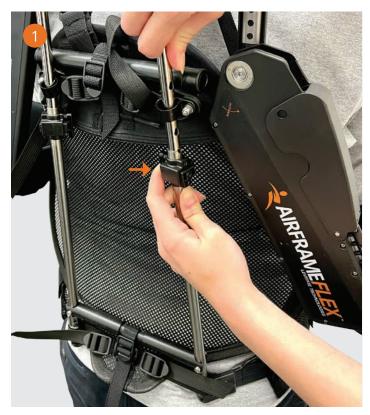
To spread the Spines apart, loosen both the left and right Straps by pulling up on Buckles.



To bring the Spines closer together, pull on both the left and right Straps.

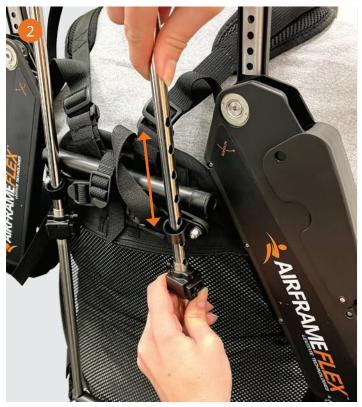
Spine Adjustment

SPINE LENGTH



Press and hold the Latch Button.

O Note, to disengage the latch you may need to pull up on the shoulder tube slightly.



Move the Shoulder Tube to the desired notch position and release the Latch Button. When you hear a *click* it is re-engaged.

Armrest

POSITION ADJUSTMENT

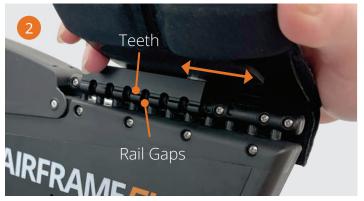


Rotate the Armrest upward to unlock. You will hear a *click*.

SHORT ARM LENGTH ADJUSTMENT



Rotate the Armrest upward to unlock, you will hear a *click*. Pull off of Cassette.



Slide the Armrest Bar to the desired position. Ensure Teeth are aligned with Rail Gaps.

 Do not overextend. A minimum of four (4) Teeth must be engaged with the Rail Gaps.



Rotate the Armrest downward to lock, you will hear a *click*.



Rotate the Armrest Bar 180 degrees.

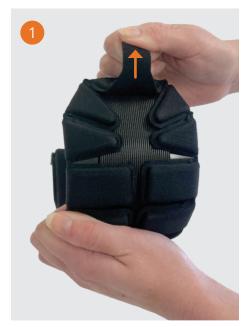


Slide Armrest back onto Cassette and rotate Armrest down to lock, you will hear a *click*.

Armrest

ARMREST STRAP INSTALLATION

Remove Armrest from Cassette for Strap installation.



Pull up the Center Tab of the Armrest Cover.



Pull up the four Side Tabs to expose the Slit.



Pull the Armrest Strap Tab through the Slit. Note, Seam on Armrest Strap faces up.



Center the Strap Tab and press it down.



Fold the Armrest Cover Tabs back down to secure.

Armrest

ARMREST STRAP USE



Pull the Elastic Loop over the top of the Armrest.



Wrap the Loop fully around the top of the Armrest.

ARMREST STRAP STORAGE



Pull the Elastic Loop off of the top of the Armrest.



Wrap the Loop around the Armrest as shown.



Avoid wrapping the Loop around Armrest Bar.



The Armrest Strap is now stored out of the way.

Cassette

ACTIVATION



Grasp the Cassette.



Raise the Cassette until the latch snaps into place.

DEACTIVATION



Lower the Cassette and place arm into the Armrest.



Grasp the Cassette firmly and remove arm from Armrest.



Raise the Cassette up as far as it will go.



Pull the Lanyard down to release the Latch, then lower the Cassette.

Cassette

FORCE LEVEL ADJUSTMENT

STEP 1 – LOCK OUT SPRINGS

For this adjustment the user's arm must be removed from the Armrest and the Cassette activated to proceed. You will need a Small Rod to lock out the Cassette, we suggest a 2mm or 3/32 inch Allen Key.

① Note, a soft Metal Rod like a Paperclip will NOT WORK as it is not strong enough to lock out the Cassette and CAN DAMAGE the Cassette.



Pull the Cassette down until the Orange Lock Bar just passes the Window.

Insert the Small Rod through the Window and out the other side to ensure it is fully locked.

AIRFRAMER

Lock Bar Now Past Window

Small Rod Goes Through

Window

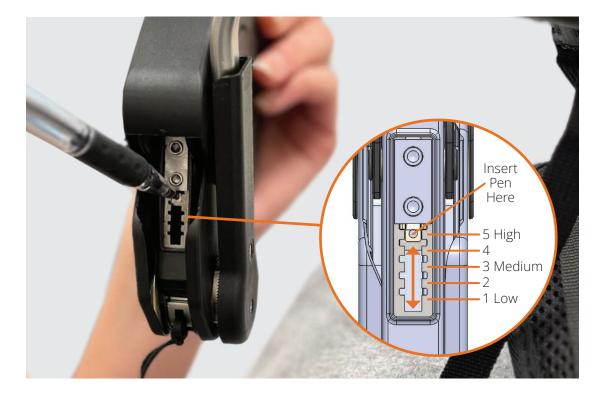


Slowly raise the Cassette until the Lock Bar stops securely against the inserted Rod. You can now safely proceed with adjusting the Force Level.

Cassette

FORCE LEVEL ADJUSTMENT

STEP 2 – ADJUST LEVEL



Using a Pen Tip or similar pointed instrument, push in the Adjustment Latch in and slide the Latch to the desired slot. Allow the Adjustment Latch to pop back out in the desired slot to secure.

There are 5 possible levels. The highest is the top slot, the lowest is the bottom slot.

STEP 3 – UNLOCK CASSETTE



Pull the Cassette down to remove the spring force from inserted Small Rod.



Remove the Small Rod from the Window and let the Cassette up slowly.

IMPORTANT PRECAUTIONS

WARNING: To reduce the risk of serious injury to yourself, others and personal property, read all instructions and precautions in this user manual and all warnings attached to the AIRFRAME™ before using the AIRFRAME™. Levitate assumes no responsibility for personal injury or property damage sustained by or through the use of the AIRFRAME™ and related products.

- It is the responsibility of the owner to ensure that all users of the Airframe Flex[™] are adequately informed of all precautions and the contents of this user manual.
- 2. The Airframe Flex[™] is mechanical equipment that should be used with due caution and only in strict accordance with this user manual.
- 3. The proper fit is essential to ensure the Airframe Flex[™] works as intended. Follow all instructions in this user manual to achieve a proper fit and to make all necessary adjustments.
- 4. Inspect and properly adjust all parts regularly and replace any worn parts immediately.
- 5. To ensure proper functioning DO NOT open, alter or disassemble the Airframe Flex[™].
- 6. The Airframe Flex[™] is not designed to increase physical strength or provide back support and you should not attempt to lift or move objects that you

would not otherwise lift or move unaided.

- 7. Never release cassette while it is energized. Damage may occur if cassette mechanism hits top position hard. Release cassette only when it is in the top position.
- 8. Never deactivate cassette while under load.
- Consider your work area environment. Portions of the Airframe Flex[™] construction could scratch or damage other surfaces and objects upon contact.
- 10. The Airframe Flex[™] should be used by adults only.
- 11. Keep the Airframe Flex[™] stored in a cool, dry place. To optimize performance, conduct regular cleaning and maintenance of the Airframe Flex[™] in accordance with this user manual.
- 12. Wear eye protection.
- 13. Not for use on or around live electrical circuits.
- 14. Not for use on or around live electrical circuits.

SEE THE TECHNICAL DATA SHEET FOR THE MODEL NUMBER YOU ARE USING FOR ADDITIONAL SAFETY INFORMATION

ABOUT LEVITATE

Levitate Technologies, Inc. is dedicated to improving the lives of active professionals and skilled trade workers through innovative technologies.

Levitate is the sole inventor of all of its products and technologies, and holds a comprehensive portfolio of patents. See Levitate website for a list of Levitate's patents. Levitate has an ongoing program of innovation in the field of performance enhancement and health improvement for professionals, and works closely with world class industrial organizations to support them with expertise in manufacturing as well as health and safety engineering.

> (858) 668-5381 info@levitatetech.com www.LevitateTech.com



Manufactured by Levitate Technologies Inc. San Diego CA USA Assembled in USA – 101394 Rev 0

CE