

Content Outline – elevator.ethingtonsolutions.com

1. Identifying

2. Adjusting

- a. This Adjusting Guide is meant to be used by elevator professionals as a reference guide. I have worked hard to make it as efficient and accurate as possible. If you have any questions or suggestions about this guide, please feel free to email me at sam@ethingtonsolutions.com

- b. Adjusting Guide – Pick Your Valve

- i. EECO UV-5A / UV-5AT / UV-5BT

- 1. Read First

- a. Pre-Settings

- i. BP - CCW to stop, CW 2 turns
 - ii. UA – CW to Stop
 - iii. UL – CW to Stop
 - iv. UT – CCW to Stop, CW 7 ½ turns
 - v. US – CCW to Stop, CW 7 ½ turns

- b. Temperature

- i. Optimum Oil Temp is 80 – 100 F

- c.

- 2. Up Adjusting Instructions

- a. BP (Bypass)

- i. Adjuster Direction - CCW Delays up start
 - ii. Coils – U2 (Up Slow) Disconnected

- b. UA (Up Acceleration)
 - i. Adjuster Direction – CCW Faster acceleration
 - ii. Coils -
- c. UL (Up Leveling)
 - i. Adjuster Direction – CCW Faster speed
- d. UT (Up Transition)
 - i. Adjuster Direction – CW Slower transition
- e. US (Up Stop)
 - i. Adjuster Direction – CW Softer stop

3. Down Adjusting Instructions

- a. DL (Down Leveling)
 - i. Adjuster Direction – CW Slower speed
- b. DM (Down Main)
 - i. Adjuster Direction – CW Slower speed
- c. DSC (Down Speed Control)
 - i. Adjuster Direction – CW Slower speed
- d. DC (Down Closing)
 - i. Adjuster Direction – CCW Firmer stop
- e. DT (Down Transition)
 - i. Adjuster Direction – CCW Slower transition
- f. DA (Down Acceleration)
 - i. Adjuster Direction – CCW Faster acceleration

ii. EECO UV-7B

iii. DOVER I-2 / I-3

1. Read First / Pre-Setting

- a. Both New and Rebuilt valves should have the adjustments pre-set.

You can skip the steps under Pre-Setting, if this is the case. If you are unsure or think that some of the adjustments are way off then you can follow these steps to Pre-Set the Valve.

- b. Relief Valve
- c. Low Pressure Adjustment (Bypass)
- d. Up Leveling
- e. Up Start
- f. Up Stop
- g. Up Slowdown
- h. Down - lowering and leveling
- i. Down Start
- j. Down Stop
- k. Down Slowdown

2. Adjusting - Preliminary

- a. Low Pressure Adjustment (Bypass)
 - i. Adjuster Direction – CW Closes Piston
- b. Relief Valve
 - i. Adjuster Direction – CW Increases Relief Pressure
- c. Up Slowdown
 - i. Adjuster Direction – CW Softer
- d. Up Leveling

- i. Adjuster Direction – CW Increases Up Leveling Speed &
Softens Up Slowdown

- e. Down Stop

- i. Adjuster Direction – CW Softer Down Stop, Firmer Down
Start, Smoother Down Slowdown, Faster Down Leveling
Speed

- f. Down Main Speed and Leveling Speed

- i. Note: Down Lowering Speed must be adjusting in $\frac{1}{2}$ turn
increments, Down Leveling speed is very sensitive and the
adjustment zone is within $\frac{1}{4}$ turn.
- ii. Adjuster Direction – CW Slower Down Main Speed ($\frac{1}{2}$ turn
increments), CW Slower Down Leveling Speed (No more
than a $\frac{1}{4}$ turn).

- g. Down Stop – Re-Adjust

- i. Adjuster Direction – CW Softer Down Stop, Firmer Down
Start, Smoother Down Slowdown, Faster Down Leveling
Speed

- h. Down Leveling – Recheck

- i. Adjuster Direction – CW Increases Up Leveling Speed &
Softens Up Slowdown

- 3. Adjusting - Final

- a. Up Slowdown

- i. Adjuster Direction – CW Softer

- b. Up Leveling

- i. Adjuster Direction – CW Increases Up Leveling Speed &
Softens Up Slowdown
- c. Up Stop
 - i. Adjuster Direction – CW Softer Up Stop, Firmer Up Start
- d. Up Start
 - i. Adjuster Direction – CW Smoother Up Start
- e. Up Slowdown – Fine Tuning
 - i. Adjuster Direction – CW Softer Up Slowdown, Increases Up
Leveling Speed
- f. Down Main Speed
 - i. Adjuster Direction – CW Slower Down Main Speed (1/2 turn
increments)
- g. Down Leveling
 - i. Adjuster Direction – CW Slower Down Leveling Speed (No
more than a ¼ turn.
- h. Down Stop
 - i. Adjuster Direction – CW Softer Down Stop, Firmer Down
Start, Smoother Down Slowdown, Faster Down Leveling
Speed
- i. Down Start
 - i. Adjuster Direction – CW Smoother Down Start
- j. Down Slowdown
 - i. Adjuster Direction – CW Slower Leveling Speed, Firmer
Down Slowdown

- iv. MAXTON UC-4
- v. MAXTON UC-4M
- vi. MAXTON UC-1
- vii. MAXTON UC-1A

3. Troubleshooting

4. Videos

- a. My Videos
- b. Linden Elevator Videos

5. About

- a. About Me - My name is Sam and I am an experienced Elevator Hydraulic Control Valve Mechanic. I understand that it is nice to have the right information on these valves, so I decided to put together some guides on Identifying, Adjusting, and Troubleshooting. Whether you're a seasoned Elevator Technician that needs a refresher on adjusting or relatively new to the trade, these guides can help to save you time and frustration.
- b. Contact Me - I am dedicated to make these guide as accurate an easy to follow as possible, so that you can that hydraulic elevator up and running as soon as possible. Feel free to contact me with any questions or suggestions at sam@ethingtonsolutions.com.