ESI Learn Floor Trip

Before performing the ESI Learn Floor Trip, there are several new parameters that must be verified.

- PAR[20] → Unlock Parameters — unlock system parameters
- PAR[81] → Slowdown Distance #1 — distance in inches from the terminal floor (one floor run)
- PAR[82] → Slowdown Distance #2 — distance in inches from the terminal floor (multi-floor run)
- PAR[85] → Level Magnet Length — in inches
- PAR[86] → Contract Speed (FPM) — top speed of the car
- PAR[87] → Contract Motor RPM — adjust to get correct speed
- PAR[88] → Learn Floor Heights - should be at zero except when performing the test
- PAR[97] → Encoder PPR — 1=1024   2=2048

Prep Work

1A) Controller with Delta Vector, must be autotuned FIRST.
   1) Reboot Controller
   2) Bring car to the lowest landing
   3) Verify that Z relay is ON
   4) Leave car in Automatic / for HPV-900 – Set inspection to 25 fpm
      For Delta vector set ofr (par 4-00) to 6Hz.

Initialize Test

5) Set PAR[20] = 3  
   6) Set PAR[88] = 1  
   7) From the ESI MON screen, use the ^ to go to the ESI MON-2 Screen

Begin Learn Floor Trip

8) Place a car call to the top floor and allow car to run to the top floor – Note that the car will run at inspection speed and stop at the top floor. PAR [80] will reset automatically upon stop.
9) Go to the Setup/Utilities Menu screen and use the ^ to get to the View Floor Counts Screen. View the value of the floor counts and verify that all floors have a value.

Verify Results

10) Run the car down one floor at a time.
11) Run the car up one floor at a time.
12) Run the car several floors at a time in the down direction.
13) Run the car several floors at a time in the up direction.
14) Make one floor runs into the Terminal Landings.
15) Make multi-floor runs into the Terminal Landings.
16) Set inspection or ofr speeds back to original settings.