

DELTA B+ DRIVE AUTO-TUNE PROCEDURE

Assuming that the car has been running on Inspection or Automatic with all doors, gate switch and all safety circuits properly installed, with or without ENCODER installed.

1. Put car on Inspection.

2. Check Motor Data Parameters:

07-00 : Motor Rate Current as a percentage of drive

07-01 : No Load Current as a percentage of drive

07-04 : Number of Motor Poles

07-08 : Motor rated slip freq ($60 - (\text{rpm} * \text{\#poles}/120)$)

2. Press MODE button on drive parameter unit, until reaching "A", Ampere reading.

3. Run car UP and Down one floor and record Ampere values.

4. Change Parameter "07-05" to "1", Motor Tuning (Note: unlock unit by setting "00-02 to 0")

5. Remove Brake Lead # B1, Note Car Should still be on Inspection.

6. Using Controller Inspection Run Button, Run the Car Up. The Motor will not Rotate, but may make some sounds.

7. The Run Light will go on, Stop light off

8. When the Auto-Tune is complete, the run light will go off, the stop light will go on, Release Insp Up run, check parameter "07-05" it should be "0", if not retry.

9. Reconnect Brake Lead # B1

For OPEN Loop Setup

10. If an Encoder **is not** being used, change Parameter "00-09" to "2" (OpenLoop Vector)

11. Run the Car Up & Down. Note Ampere Reading, they should be Lower than before

For CLOSED Loop Setup

10. If an Encoder **is** being used, change Parameter "00-09" to "3" (ClosedLoop Vector)

11. Check Parameter: 10-10 = the Number of Pulses per Revolution of the Encoder (ie 1024, 2048)
10-11 = 2 or 3 , encoder input direction setting

12. Run the car up and down, Note: F (freq command), H(Hz output), A (Ampere). The Hz output should vary from up and down, however the car speed should be the same up and down.
If not change Parameter "10-11 to "3" and re-try running the car.
Also, the amps should be lower than before.