RCBS Chargemaster 1500 Reprogramming

Instructions provided by RCBS around 4/2/11 for Chargemaster 1500 Speed Adjustment:

1. Turn the Chargemaster 1500 unit on.

2. When 0.0 gn is on the display, press BOTH the ENTER and the EDIT MEM keys on the dispenser at the same time. Hold for a second and then release. If done properly ADJUST PARAMETERS should scroll across the display followed by HSP_A1 00015.68 (This number represents the number of grains away from your entered charge when the tube will shift from fast speed to medium speed. That is at 15.68 gn from your target charge the dispenser will shift from fast to medium speed.) To speed up the unit, this number needs to be decreased, and to slow down the unit, this number needs to be increased. (On a slow unit, I would change this number to 11.00 gn this is done by pressing the following keys: 1 1 0 0 ENTER (pressing the enter key sets that value and moves to next setting in program in this case, to medium speed to slow speed setting)

3. HSP_B1 00003.42 should scroll across the display now. This number represents where the unit will shift from medium to slow speed. Use the same process as in step 2 to enter updated values. For a slow unit I would change this number to 2.50 gn this is done by pressing the following keys: 2 5 0 ENTER (pressing the enter key sets that value and moves to the next setting in the program. In this case, the slow speed to trickle speed transition)

4. HSP_C1 00001.08 should now scroll across the screen. This number represents where the unit will shift from slow speed to trickle. Use the same process as before to enter the value. For a slow unit I would change this number to .90 gn. This is done by pressing the following keys: 9 0 ENTER

5. This is all the adjustment that needs to be done to the unit. You then need to press the ENTER key to cycle through the rest of the program without changing any of the values (approx. 22 times). Once complete, the unit will start its normal initial countdown process. Next, test the dispenser by entering a target charge (i.e. 44.5 ENTER, and pressing DISP). Disregard the first charge and throw a few charges at these settings to see if they satisfy your needs. If not, return to step 2 and repeat the process to program in different values.

NOTE: Due to powder variations, you may have to adjust the unit for each different powder type used.

For additional questions/answers, please call Customer Service at 800-533-5000 and ask for Don Legg.

Re: Eric's Charge Master Modification, Turbo drive.
07/04/2016

Settings: My Unit:

HSP A1 8.00   _____

     B1 3.00   _____

     C1 1.10   _____

MSP A2 1.00   _____

     B2 3.00   _____

     C2 1.00   _____

SSP A3 196.00   _____

     B3 42.75   _____

     C3 11.32   _____

SEL   065   _____

F_A   050   _____

M_A   035   _____

S_A   006   _____

W_F   200   _____

W_M   100   _____

W_S   036   _____

S-F   012   _____

S-M   024   _____

S-S   128   _____

FR1   040   _____

FS1   016   _____

FR2   080   _____

SR1   032   _____

SS1   008   _____

SR2   040   _____

DEC   000   _____

AT   000   _____

Snippet from a forum post explaining some parameters:

There are 27 parameters (not my own list, but seems accurate lol), accessed sequentially by pressing "EDIT MEMORY" and "ENTER" simultaneously, and then pressing "ENTER" to advance through the list. To change a parameter, type the new number once the old number is displayed. Record all factory data first because there is no "FACTORY RESET" available. * marks parameters used in the above notes. (XXX) indicates my factory data.

*HSB_A1 (15.68) Grains under target weight to go from full to high speed for low weight
*HSB_B1 (3.42) Grains under target weight to go from high to slow speed low weight
HSP_C1 (1.08) Grains under target weight to go from slow to final trickle speed low weight

*MSP_A2 (39.20) Grains under target weight to go from full to high speed for medium weight
*MSP_B2 (8.55) Grains under target weight to go from high to slow speed medium weight
MSP_C2 (2.25) Grains under target weight to go from slow to final trickle speed medium weight

*SSP_A3 (196.00) Grains under target weight to go from full to high speed for heavy weight
*SSP_B3 (42.75) Grains under target weight to go from high to slow speed heavy weight
SSP_C3 (11.32) Grains under target weight to go from slow to final trickle speed heavy weight

SEL (065) ???
*F_A (050) Grains for a Heavy Charge
*M_A (035) Grains for a Medium charge
*S_A (006) Grains for a slow charge
*W_F (200) Rotation for Full speed
*W_M (100) Rotation for Medium speed
W_S (036) Rotation for slowest speed

*S_F (012) Scale sensitivity timeout time in m/s fast speed
S_M (024) Scale sensitivity timeout time in m/s medium speed
S_S (128) Scale sensitivity timeout time in m/s slow speed.

FR1 (040) ?
FS1 (016) ?
FR2 (080) ?
SR1 (032) ?
SS1 (008) ?
SR2 (040) ?
DEC (000) ?
AT (000) ?