Setting 1 or 2 unloaded heads in field with Carrier 06E & 06D compressors

On R22 we want

(1) Head to unload at 60 psi and load at 68 psi. If you have 2nd cylinder head to Unload:

(2nd) Head to unload at 70 psi and load at 78 psi

Setting Load point:
On the big nut at top, run nut down (clockwise) to bottom stop. It is now set to load at 85 psi. Every revolution up on big nut (counter-clock wise) subtract 7.5 psi from bottom stop load point of 85 psi. 1 revolution clockwise would be 7.5 psi minus 85 psi or 77.5 psi to load.

Setting Unload point:
On set screw on side of unloader, run the screw all the way out (counter clock wise) - it will stop. This set screw sets the differential between load and unload. With screw all the way out the differential from load point is set at 6 psi. Every revolution in (clockwise) add 1.5 psi. to out position @ 6 psi (6 psi plus 1.5 psi = 7.5 differential between your load point and unload point.

Now lets set to desired application:

1 unloaded head - unload at 60 psi and load at 68 psi.
On big nut from bottom stop go 2.2 revolutions counter-clockwise (85 psi minus 17 psi = 68 psi (17 psi divided by 7.5 = 2.2 revolutions ). On set screw from out position go 1.4 revolution (clockwise). (1.4 rev x 1.5 psi = 2.1 psi plus 6 psi = 8 psi) This sets at 8 psi differential from load point which makes unload at 60 psi (68 psi load minus 8 psi differential).

2nd unloaded head - unload at 70 psi and load at 78 psi.
On big nut from bottom stop go 1. revolution counterclock wise. (85 psi minus 7.5 = 77.5 psi to load) On set screw from out position go 1 revolution (clockwise). This sets at 7.5 differential (1 rev x 1.5 psi plus 6 psi = 7.5 psi) from load point which makes unload at 70 psi (load 78 psi minus 7.5 psi) = 70.5 psi unload point.

To check in field:

A. High load conditions turn your suction service valve down to reduce suction pressure such that you can verify unload set point.

B. Low load conditions turn a fan off or water pump to increase suction pressure such that you can verify load set point.

C. We do not want to go below 34 degree saturation on A/C which converts to 60 psi on R22