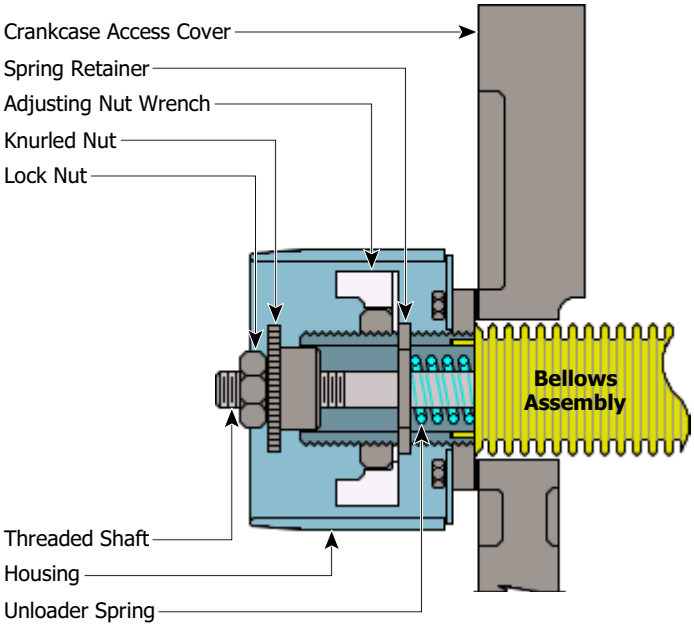
Chrysler Airtemp
2000/3000 Series Compressors
Suction Pressure Unloading



UNLOADER ADJUSTMENT PROCEDURE

1. Screw out the knurled nut on the small threaded rod and lock in position with the small hex lock nut shown.

2. Turn the large winged adjusting nut wrench counterclockwise as far as possible on the threaded sleeve.

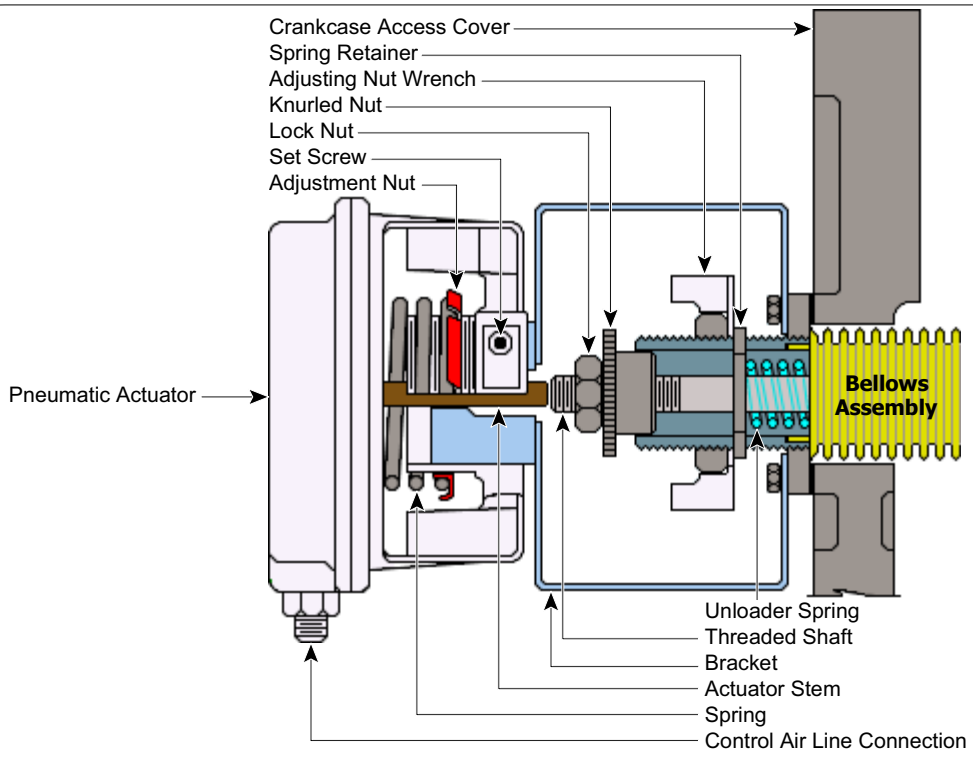
3. Operate the compressor until the evaporator is near desired temperature.

4. Slowly turn the winged adjusting nut wrench clockwise until the first cylinder unloads. Be sure to turn the nut slowly, a half turn at a time and wait a few seconds. Observe the suction pressure and listen for an operating noise change indicating that the first step has unloaded.

5. Next slowly turn the winged adjusting nut wrench counterclockwise until the first step reloads. This can tentatively be considered a satisfactory unloader adjustment.

If, when servicing, it is desired to prevent cylinder unloading during pump down, the unloader can be locked out by turning the knurled nut in clockwise, as far as it will go. This will prevent the cylinders from unloading when the suction pressure drops. When the knurled nut is set for automatic operation, it should be positioned so the bellows can expand inward to a fully unloaded position before the knurled nut makes contact with the threaded sleeve. The small locknut should then be tightened against the knurled nut to secure its position.

Chrysler Airtemp
2000/3000 Series Compressors
Pneumatic Unloading



UNLOADER ADJUSTMENT PROCEDURE

1. Disconnect the air tube and turn the winged unloader adjusting nut out (counteclockwise) to its most outward position. This should prevent cylinders from unloading at a suction pressure of 55 psig.
2. Reduce the suction pressure to approximately 55 psig.
3. If the bellows spring adjustment outlined in step 1 was made, all cylinders should still be loaded. Slowly turn the winged unloader adjusting nut in (clockwise) until the first step of unloading takes place. Slowly turn the winged nut out (counterclockwise) until the the cylinders reload. This will normally be the correct unloader adjustment. The knurled nut should be positioned on the threaded rod to permit the bellows to expand inward to the last position. It should then be locked in position with the small lock nut.
4. The pneumatic actuator has an adjustment nut that changes the spring force or tension on the actuator diaphragm. This adjusting nut should be turned for minimum spring tension on the diaphragm. It should be turned to its farthest position from the diaphragm permitting the spring to expand to its greatest adjustment length.
5. The pneumatic control air pressure line can now be reconnected to the actuator and the control system placed in operation.
6. A penumatic electric switch is located in the units control panel. This control usually has an adjustable range of from 3 to 30 psi and a differential adjustment of 1 1/2 psi minimum. A typical adjustment of unloader, pneumatic electric switch and branch line air pressure are as follows:

First step of unloading	3 psi
Second step of unloading	5 psi
Third step of unloading	7 psi
Electric switch opens	9 psi
Electric switch closes	7 1/2 psi

This adjustment procedure is for R-22 refrigerant at comfort cooling temperatures.

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