AirStar Tandem Installation Kit Part Number 85694

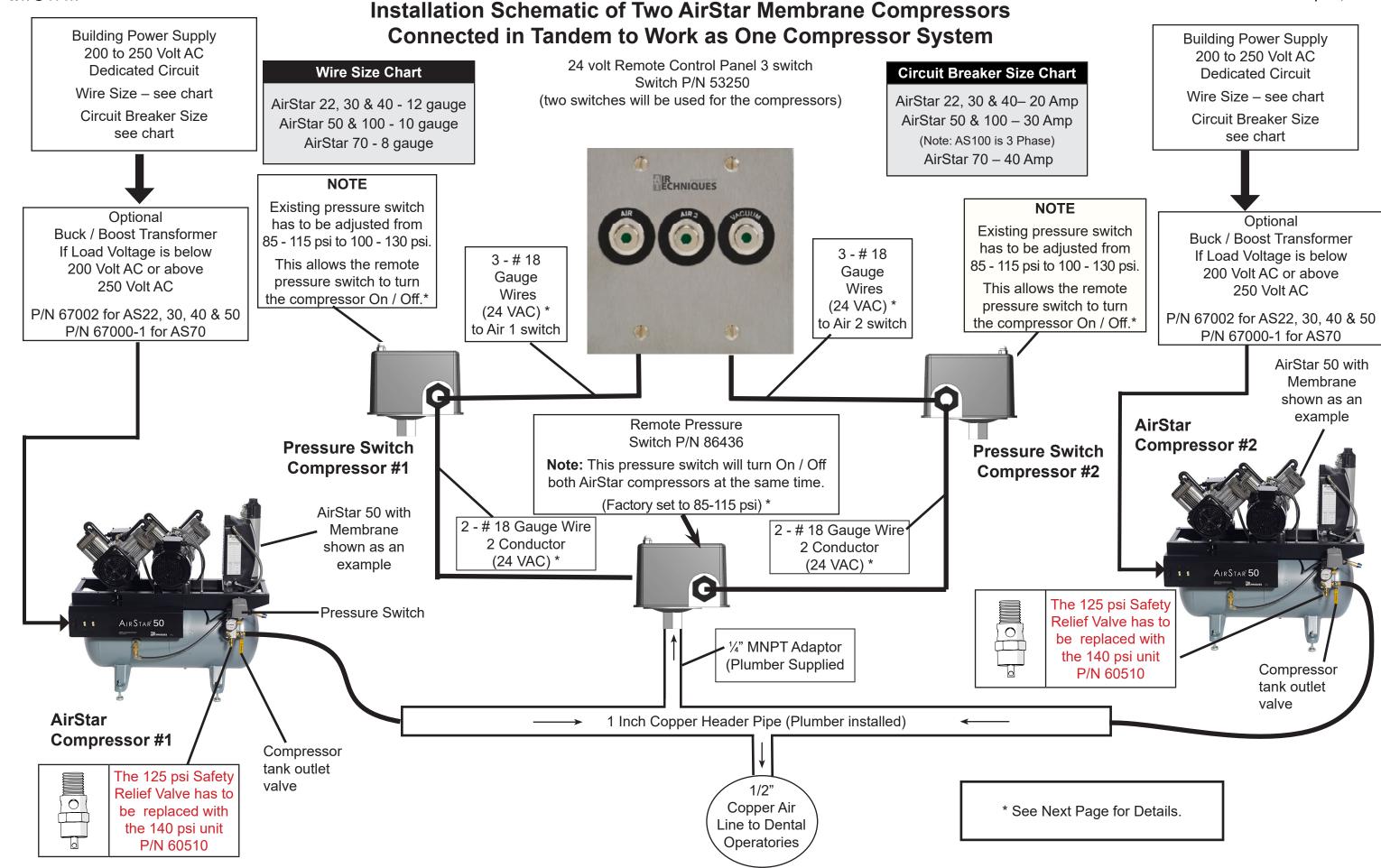
Kit Parts Supplied

Part No.	Description	Quantity
60510	140 PSI Safety Relief Valve	2
86436	AirStar Pressure Switch 85-115 psi	1
85686	Installation Schematic for two Tandem AirStar compressors	1

System Configuration to be Installed	Use Pages
Two AirStar Compressors with Membrane Dryer.	2 & 3
One AirStar Compressor with Membrane Dryer and One AirStar Compressor with Desiccant Dryer.	4 & 5
Two AirStar Compressors with Desiccant Dryer.	6 & 7
Adjustment Procedure for Pressure Switch, P/N 86429 and P/N 86436	8

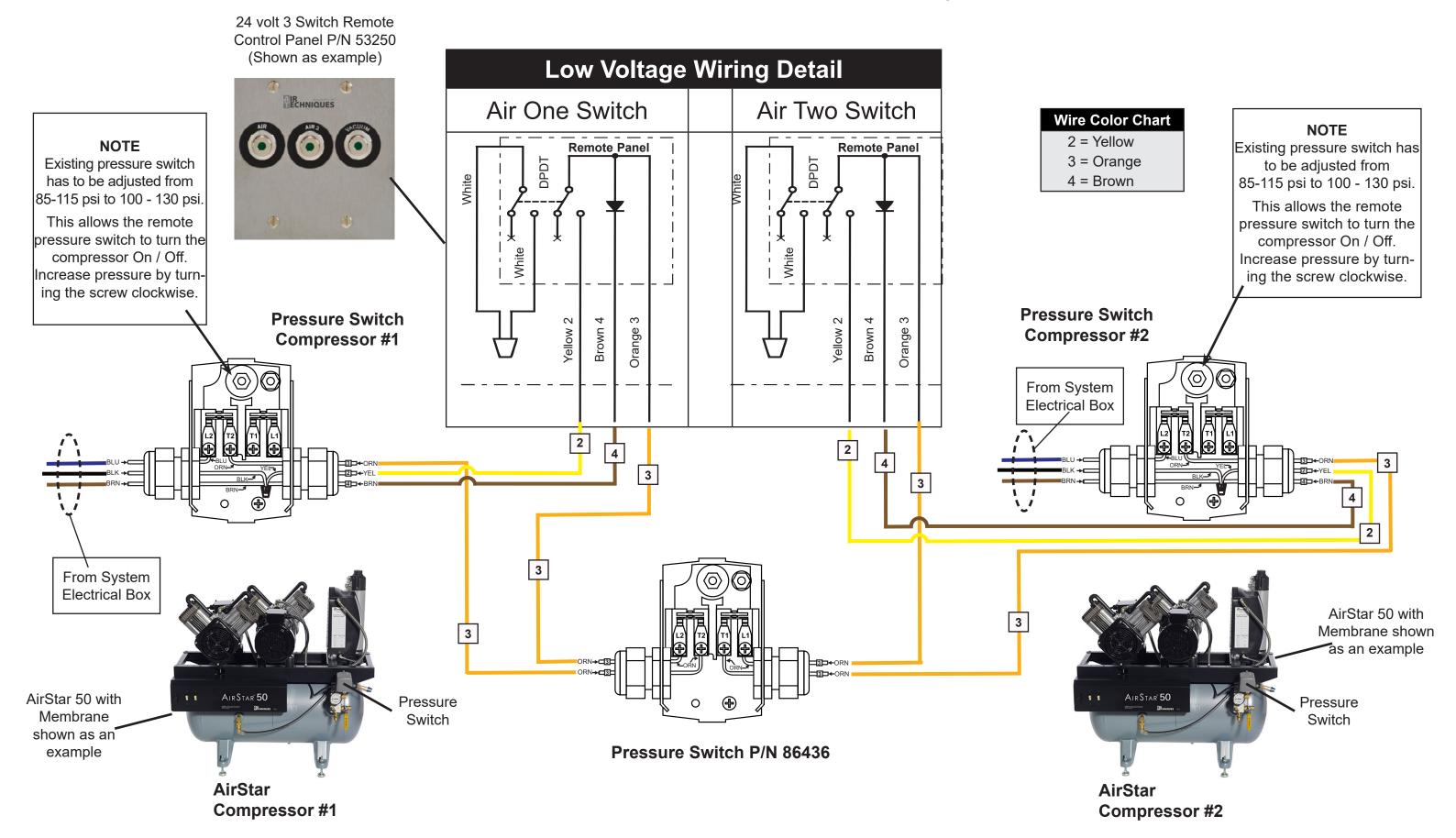


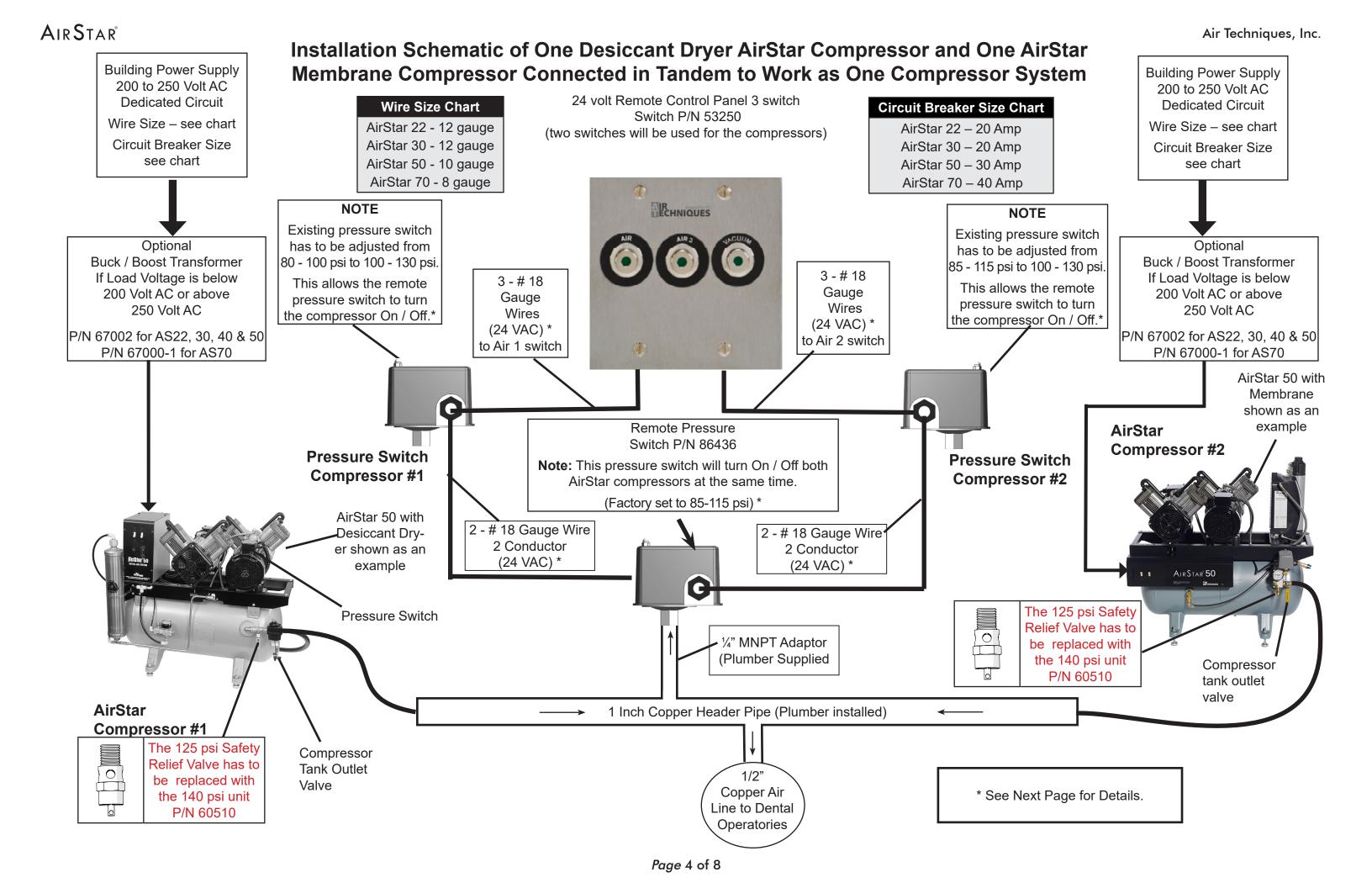
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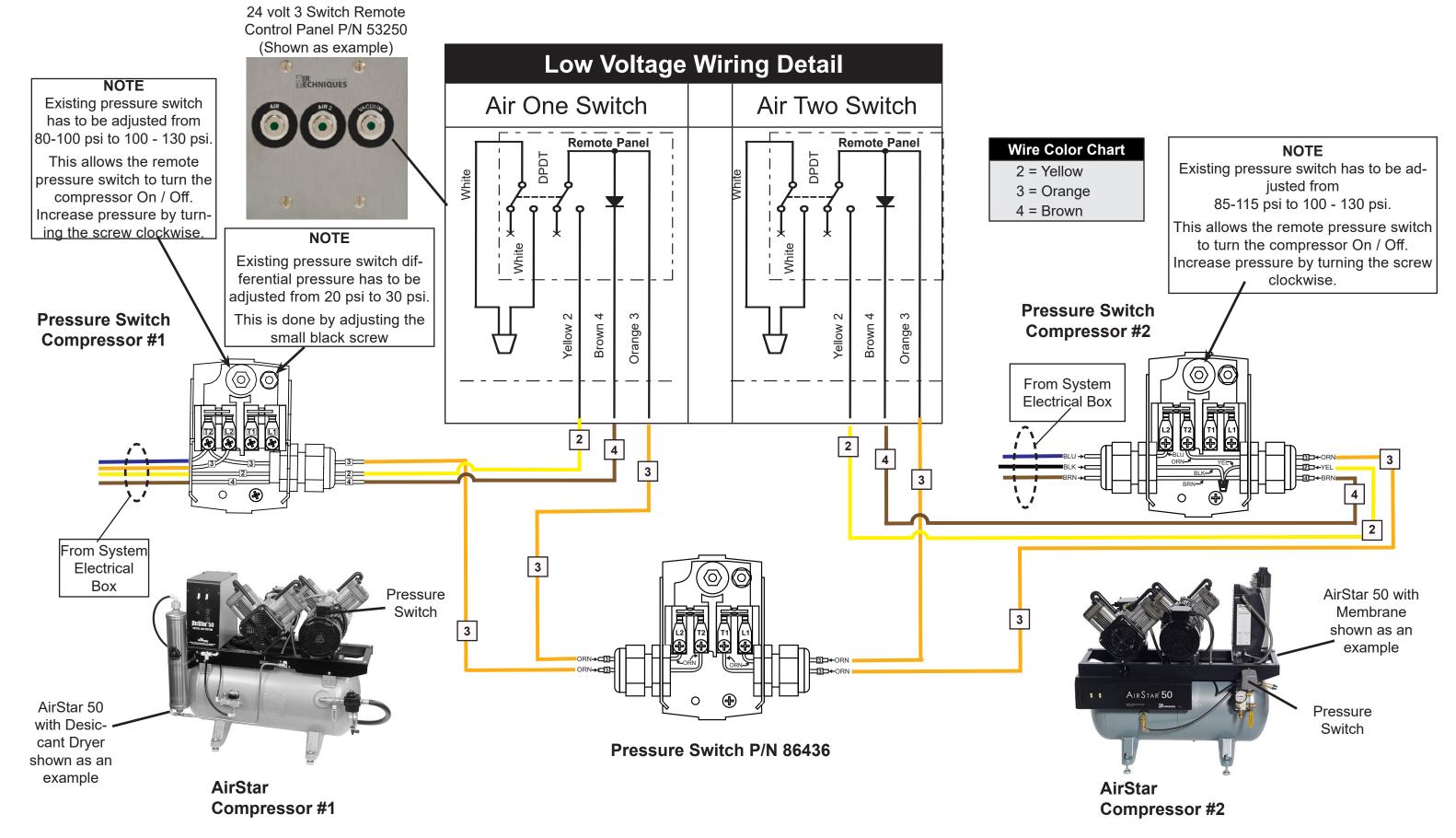
Installation Schematic of Two AirStar Membrane Compressors Connected in Tandem to Work as One Compressor System





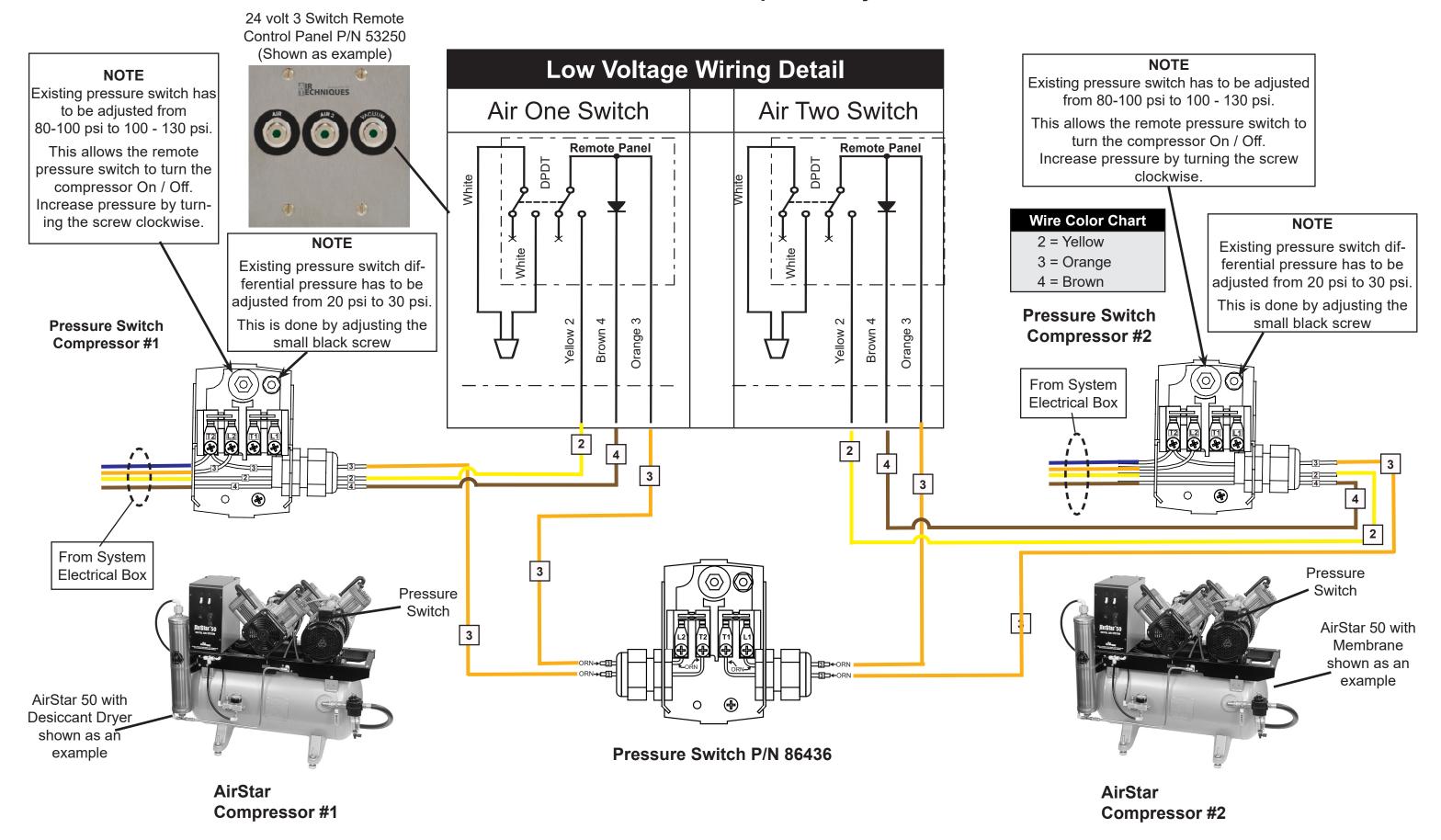
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Installation Schematic of One Desiccant Dryer AirStar Compressor and One AirStar Membrane Compressor Connected in Tandem to Work as One Compressor System



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Installation Schematic of Two Desiccant Dryer AirStar Compressors Connected in Tandem to Work as One Compressor System



Caution: To avoid damage, do not exceed maximum allowable system pressure. Always check the pressure switch operation after re-setting.

Pressure Adjustment

Adjusting the operating pressure range of the Pressure Switch,P/N 86436, is accomplished by the Range and Differential spring nuts located under the pressure switch cover. The Range spring nut controls the cut-in or turn on pressure set point, while the Differential spring nut sets the operation cut-out or turn off pressure set point. Since the range adjustment changes both the high and low operating points, it is recommended to always adjust the Range spring nut first.

Adjustment Instructions

Set the switch pressure range by first removing the nut securing the pressure switch cover and remove the cover from the switch to access the adjustment spring nuts. Refer to the illustration shown to the right and adjust the pressure switch as follows:

Range - Adjust Range spring nut (A) until the desired operating point (cut-in) of 85 psi (5.8 bar) on falling pressure is obtained. Turning the Range nut (A) clockwise will increase the setting.

Keep in mind the range adjustment changes both the high and low operating points but should always be adjusted for the low operating point.

Differential – Set the operating point (cut-out) on rising pressure to maximum by adjusting the Differential spring nut (B). Turning the nut (B) clockwise increases the pressure difference between the high and low operating points by increasing the high operating point only.

Caution: To avoid damage, do not exceed maximum allowable system pressure.

Always check the pressure switch operation after re-setting.

Pressure Adjustment

Adjusting the operating pressure range of the Pressure Switch, P/N 86429, is accomplished by the Range and Differential spring nuts located under the pressure switch cover. The Range spring nut controls the cut-in or turn on pressure set point, while the Differential spring nut sets the operation cut-out or turn off pressure set point. Since the range adjustment changes both the high and low operating points, it is recommended to always adjust the Range spring nut first.

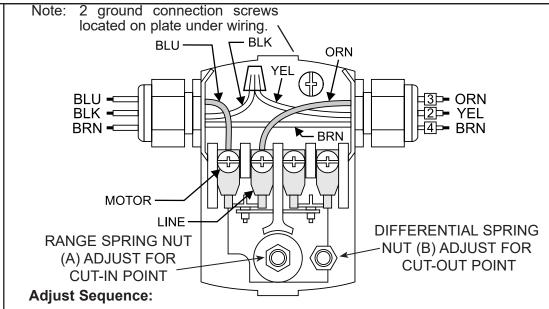
Adjustment Instructions

Set the switch pressure range by first removing the nut securing the pressure switch cover and remove the cover from the switch to access the adjustment spring nuts. Refer to the illustration shown to the right and adjust the pressure switch as follows:

Range - Adjust Range spring nut (A) until the desired operating point (cut-in) of 80 psi (5.5 bar) on falling pressure is obtained. Turning the Range nut (A) clockwise will increase the setting.

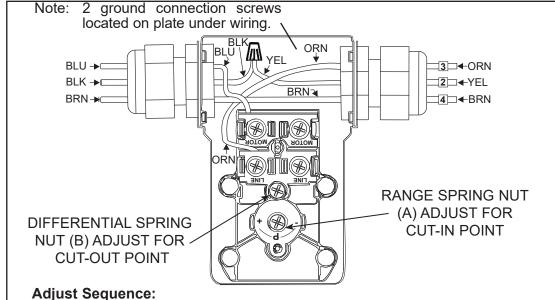
Keep in mind the range adjustment changes both the high and low operating points but should always be adjusted for the low operating point. .

Differential - Set the operating point (cut-out) on rising pressure to 20-psi (1.4 bar) maximum by adjusting the Differential spring nut (B). Turning the nut (B) clockwise increases the pressure difference between the high and low operating points by increasing the high operating point only.



- 1. **CUT-IN:** Turn Range spring nut (A) clockwise for higher cut-in pressure. Turn counter-clockwise for lower cut-in.
- 2. **CUT-OUT:** Turn Differential spring nut (B) clockwise for higher cut-out pressure. Turn counter-clockwise for lower cut-out.

Pressure Switch, P/N 86436, Adjustment Location



- 1. **CUT-IN:** Turn Range spring nut (A) clockwise for higher cut-in pressure. Turn counter-clockwise for lower cut-in.
- 2. **CUT-OUT:** Turn Differential spring nut (B) clockwise for higher cut-out pressure. Turn counter-clockwise for lower cut-out.

Pressure Switch, P/N 86429, Adjustment Location

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