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#12 HOW TO SET CLAMP PRESSURE SWITCH/ CLAMP PRESSURE SWITCH KIT



This bulletin is to help with setting the clamp pressure switch. When setting a pressure switch it has to be set in the direction it will be used. The clamp pressure switch changes state when pressure falls to around 4500 P.S.I. from 4800 P.S.I., so we need to set it on the drop.

Pressure switches have a dead band, this is a percentage of the max pressure. For example, if a switch has a 10% dead band and is set at 4800 P.S.I., we would have 480 P.S.I of dead band. If setting the switch at 4500 P.S.I. we have to go above 4980 P.S.I. to get above the dead

APE HEADQUARTERS
7032 S 196TH STREET
KENT, WA 98032
(800) 248-8498 • (253) 872-0141
Fax (253) 872-8710

NORTHEAST REGIONAL OFFICE
401 HARTLE ST.
SAVANNAH, GA 31408
(888) 217-7524 • (732) 432-6604
Fax (732) 432-6608

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BUILDING NO. 233, FU QIAO ROAD
GU CUN INDUSTRIAL ZONE BAOSHAN DISTRICT
SHANGHAI, CHINA 201906
011-86-21-5677-1221
Fax 011-86-21-3604-0553

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Fax (863) 318-9409

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Fax (636) 278-4278

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STOCKTON, CA 95205
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Fax (209) 942-2432



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band to set it properly on the drop. The switches we use now are around 300 P.S.I. of dead band, but could be more or less than 300 P.S.I.

We will be sending each branch a kit to assist with the proper setting of the switch. The following below will be in the kit.

1. 50ft- 3/8" hose
2. Open Q.D.
3. Close Q.D.
4. Needle valve for open side



(When received fill the new kit with hydraulic oil.)

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SAVANNAH, GA 31406
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Fax (732) 432-6608

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Step one is to install kit to the P/U Q.D.'s.

Step two, make sure needle is in the closed position.

Step three, turn clamp open switch on to verify the proper relief setting of 4800 P.S.I. at max engine R.P.M., adjust if necessary.

Step four, turn to clamp closed on the panel, and then slowly open the needle valve. (**This simulates a leak in the clamp closed circuit. The greater the leak will create faster cycles of the pressure switch for a less accurate adjustment.**) Adjust the needle valve so you have a slow cycle time on the switch. The 50' hose acts like an accumulator to assist with a more accurate setting.

Step Five, adjust the pressure switch to 4500 P.S.I. while it is on the fall.

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401 HARTLE ST.
SAYREVILLE, NJ 08872
(888) 217-7524 • (732) 432-6604
Fax (732) 432-6608

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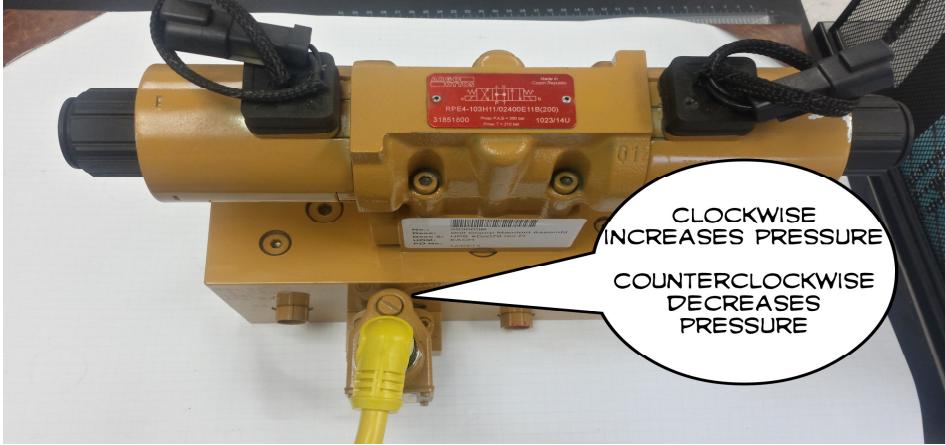
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Step six, check for proper operation of the clamp closed circuit. Switch should cycle at regular intervals.

Step seven, switch to open and relieve pressure then switch back to clamp closed and repeat step six.

Step eight, if the switch will not set at 4500 P.S.I it may need to be set lower due to manufacturing inconsistencies of the switches.
(NOTE Minimum PRESSURE 4200 P.S.I.)

Step nine, If the switch doesn't operate properly, replace it. Start the test over.

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