

# StrongArm Valve Adjustments

## For quick & smooth operation

Doc D00444

1. Begin with the arm in the **Down** position; verify full down by operating the manual by-pass located on the front of the brake manifold then re-engage the valve to normal run mode (Valve handle “in”).
  - a. Loosen both of the **Brake Valve adjuster screws**, by releasing the 9/16 lock nut and turning the adjuster Allen screw **clockwise** until it bottoms out then adjust it **back 1 full turn**.
  - b. Loosen the **Relief Valve**, located on the right side of the pump manifold, by first releasing the 9/16 lock nut and turning the 1/2 adjuster bolt **counter-clockwise** approximately three turns.
2. Next be prepared to adjust the **Relief Valve** clockwise as the pump begins to start.
  - a. Give the operator an “**Open**” command: While the operator is running, slowly turn the **Relief Valve** in **clock-wise** until the pump has just enough power to lift the arm at a smooth steady rate.
  - b. Carefully tighten the 9/16 locking nut without disturbing the adjuster bolt.
3. Adjust the **Close Brake Valve** (which is the valve on the top right of the brake manifold) Counter Clockwise until the adjuster tops out. At this time the arm should be in the open position.
  - a. a. Give the operator a “**Close**” command: While the operator is running, slowly turn the **Close Brake Valve** Adjuster **Clock-wise** until the brake has released just enough to lower the arm at a smooth, controlled, steady rate and drift level after it trips the limit switch.
  - b. Leave the locking nut loose until you are sure of your adjustments.
4. Adjust the **Open Brake Valve** (which is the valve on the top left of the brake manifold) **Counter Clockwise** until the adjuster tops out. At this time the arm should be in the **closed** position.
  - a. Give the operator an “**Open**” command: While the operator is running, slowly turn the **Open Brake Valve** Adjuster **clock-wise** until the brake has released just enough to raise the arm at a smooth, controlled, steady rate and drift vertical after it trips the limit switch.
  - b. Leave the locking nut loose until you are sure of your adjustments.

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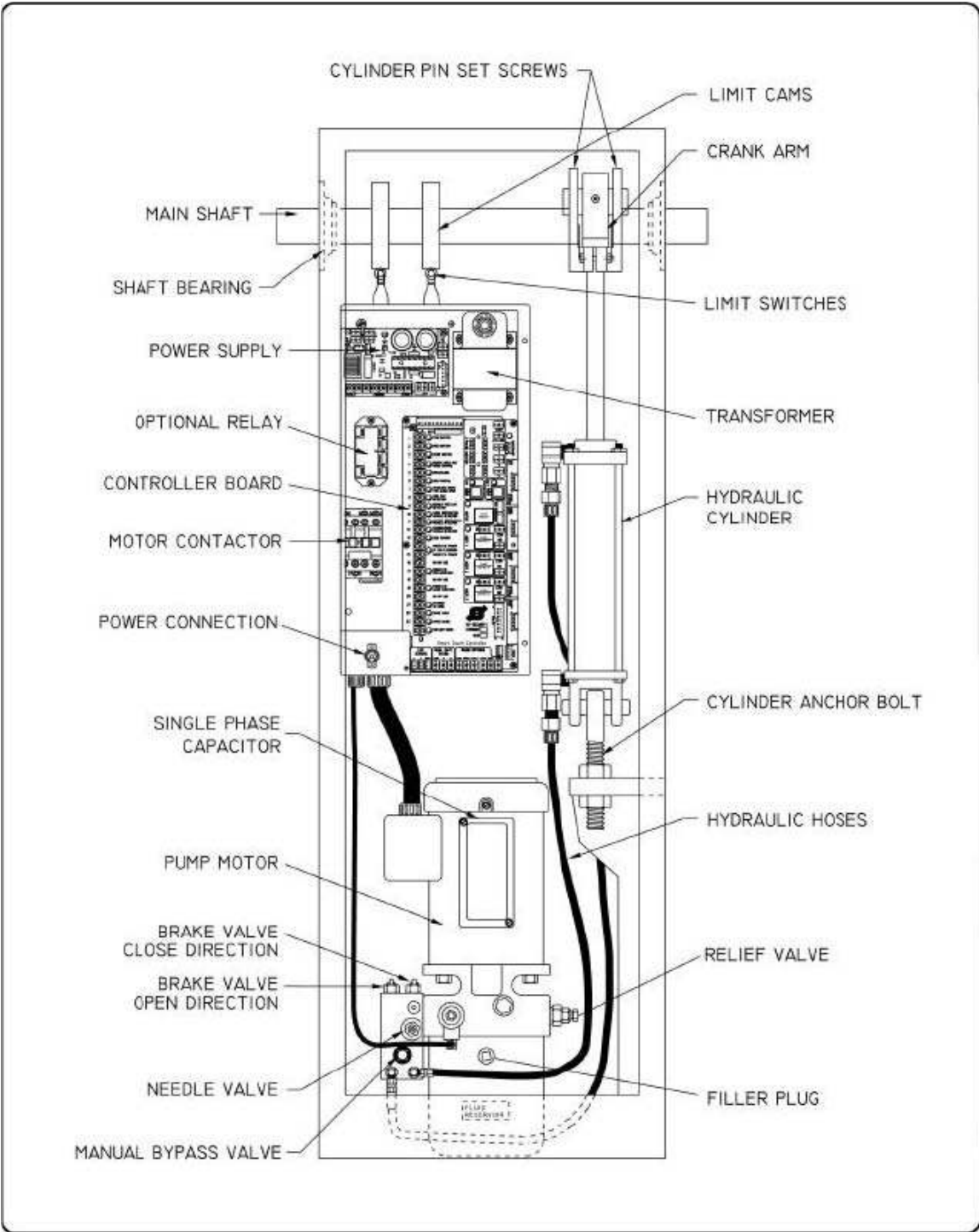
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5. Adjust the **manual bypass valve** by raising the arm to approximately 45 degrees and press the “**stop**” button.
  - a. Loosen the locking nut on the **bypass needle valve adjuster screw**, and then turn the adjuster screw **clockwise** until the adjuster screw stops.
  - b. **Pull out** on the **manual bypass lever or knob** and lock it by twisting 1/4 turn and releasing the knob or lever to rest in the out position.
  - c. Slowly turn the **needle valve adjustment screw**, **counter clockwise** until the arm begins to drift down at a relatively slow and controlled rate.
  - d. Tighten the lock nut without disturbing the adjustment of the needle valve.
  - e. **Turn in the manual bypass knob or lever until it snaps in to a closed, seated position.**
6. Tighten all lock nuts and run the operator as normal.

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TITLE  
**COMPONENTS**  
**HTG 320 BARRIER ARM OPERATOR**

DRAWN D. B.	DATE 05/12/00	THIRD ANGLE PROJECTION 		REV <b>A</b>
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APPROVED	DATE	DRAWING NUMBER: HTC35 ST		SHT OF 1 1