

## F-525 Controls (*continued*)

- 4. Augers:** There are two (2) separate auger flights (1 for each side of the paver) mounted on to the shut-off gate linkage. When the gate is opened, the augers drop down into the throat of the hopper. Each auger is driven by a separate (single direction) hydraulic motor and is controlled through a solenoid valve, which can be activated by a toggle switch from either operator console. There are two (2) toggle switches on each console (1 for each auger). On either console, move the right hand toggle to the right to turn on the right auger and to the left to turn it off. Move the left hand toggle to the left to turn on the left auger and to the right to turn it off. The augers are needed only to supply material, to the extensions, while paving wider than the natural flow. The engine(s) should be run with the throttle in the ½ open position. A solenoid is connected to the throttle, is activated by the auger control toggle switches. This solenoid will automatically advance the throttle to full operating speed, 3500 RPM if it is every necessary to move material from the sides to the center of the paver (such as when using Ditch Plates), the direction of the augers can be reversed by switching the two (2) hoses going to the drive motor.
- 5. Electric Hydraulic System:** The electric hydraulic pump and three (3) control valves are located under a (lockable) protective cover, on the pack of the paver hopper. Each control valve is connected to an electrical switch, which turns on the electric motor, driving the hydraulic pump. The left hand valve operates the “Hitch Arms”, move the valve handle to the left; this activates the pump and directs the flow of oil to “close” the hitch arms. The valve spring loaded, when you release the handle it will return to center (hold position) turning off the electric motor. Moving the handle to the right will release (“open”) the hitch arms. The function of the other 2 valves is the same except, middle valve, move to the right to “close” the shut-off gate (to the left releases), right hand valve, and move to the right to “raise” the screed hoist and move to the left to “lower”. Built into the pump is a pressure relief valve. NOTE: Once the pressure builds up to the relief valve setting (you will hear a squeal), it does no good to keep activating the pump. You will get no extra pressure and it only causes excessive battery drain.
- 6. Hydraulic Hand Pump:** Mounted on the hopper back, directly below the electric unit, is a three (3) bank hand pump. On pavers not equipped with the electric hydraulic unit, this hand pump becomes the only source of hydraulic power for the high pressure system, otherwise it serves as a back-up for the electric hydraulic system. Each pump is in the same relative position as the electric hydraulic control valves, left pump = hitch arms, center pump = shut-off gate, and right pump = screed hoist.