

ADJUSTING BLADE SPEED

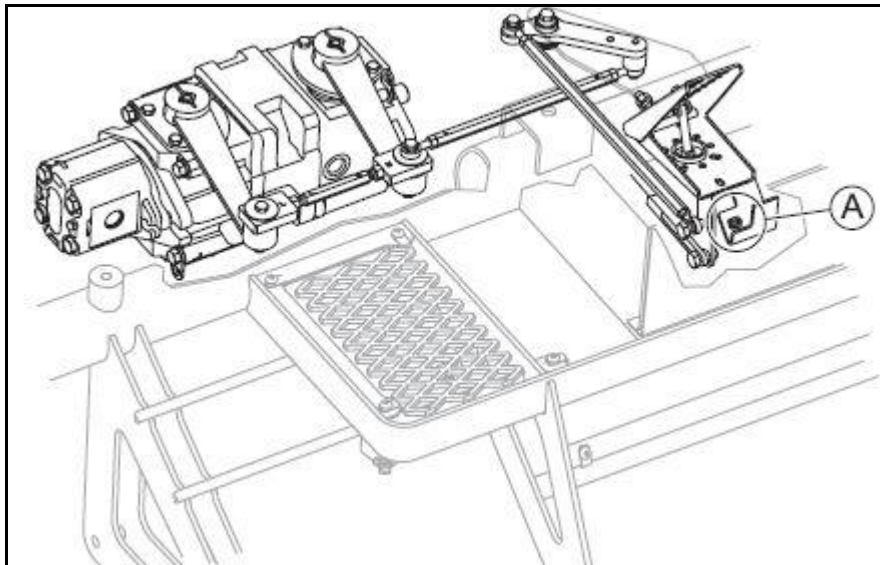
Before adjusting the blade speed is sure to review the technical information document titled "Checking Blade Speed" for the correct procedure and current blade speed specifications.

Because the two hydraulic drive motors operate independent of each other, the trowel speed between them may vary. If the unit's steering is difficult to control, or if one spider is spinning noticeably faster or slower than the other, the trowel speed may need to be checked. It is also recommended that the trowel speed be checked at least once a year. Trowel speed adjustment is a two-step process. First, the left side should be checked and/or adjusted. Second, the right side should be adjusted to match the left.

STEP 1: LEFT SIDE TROWEL SPEED ADJUSTMENT

The left side trowel speed is adjusted by the set bolt located under the operator's platform (Item A, Figure 1) and accessed by opening the storage panel door. Backing the set screw out decreases the left side trowel speed; screwing it inward increases the speed. Check the blade speed with the foot pedal fully depressed and the engine at FULL RPM.

FIGURE 1 LEFT SIDE SPEED CONTROL ADJUSTMENT



- **STX Rotor Speed 130 RPM \pm 5 RPM**
- **HTX Rotor Speed 140RPM \pm 5RPM**

***NOTE: Rotor Speed to be Checked / Adjusted with engine at Full Throttle.**

STEP 2: RIGHT SIDE TROWEL SPEED ADJUSTMENT

The right side trowel speed is adjusted by changing the length of the connecting rod on the pump actuation levers (Figure 2).

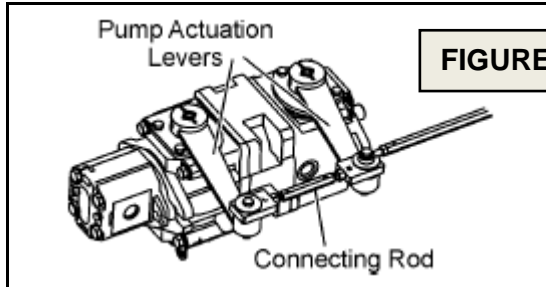
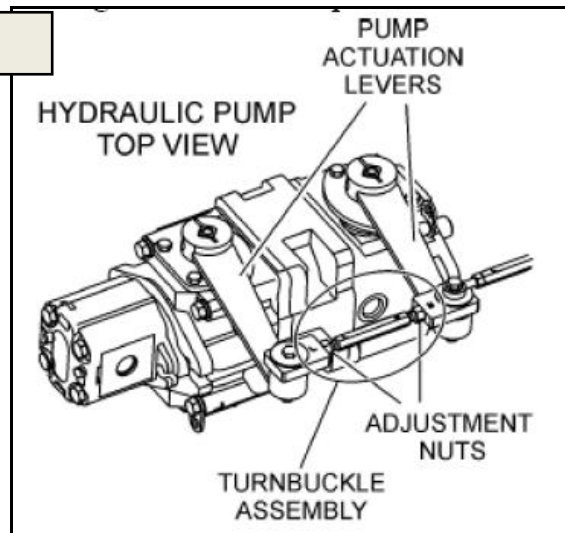


FIGURE 2 PUMP CONNECTING ROD & LEVERS

This rod is basically a turnbuckle (Figure 3). Rotating it in one direction increases the length and corresponding trowel speed. Rotating it the opposite direction decreases the length and trowel speed. The right side trowel speed should be within 3 rpm of the left.

FIGURE 3 TURNBUCKLE ASSEMBLY



A good starting point in the adjustment process is to adjust the rod such that both trowels begin to rotate at the same time when the foot pedal is slowly depressed. This will generally get the speeds fairly close; close enough for use if instrumentation is unavailable (i.e. on the job site).

From this point on, some form of instrumentation is required to verify that the trowel speeds are within tolerance. A strobe or magnetic pickup type speed indicator is recommended to verify the speeds. The trowel speeds should be adjusted on a dry concrete floor with the blades pitched flat.

- **STX Rotor Speed 130 RPM \pm 5 RPM**
- **HTX Rotor Speed 140RPM \pm 5RPM**

***NOTE: Rotor Speed to be Checked/Adjusted with engine at Full Throttle.**