

Hammer Phasing Adjustment

You must check and adjust hammer phasing if the controller board is replaced, the shuttle frame assembly is removed, or if the MPU is replaced.

The hammer phase value is a timing parameter that permits you to adjust the vertical alignment of dots in character printing. The phase value numerical units are relative; they do not represent a physical measurement or value. Thus there is no “correct” value or range. But, if the phasing value is far enough from the theoretical ideal value on a particular printer, errors can occur. If, for example, you are adjusting phasing and an error such as PAF FIFO UNDRFL* occurs, the phase value may be too high. Try a lower value.

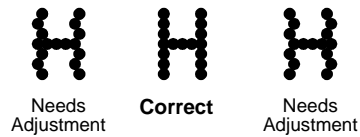
The factory prints the initial phase value on the shuttle assembly casting, next to the motor housing. Adjust the phasing to this value and recheck the vertical alignment. When vertical alignment is acceptable, write the new phasing value on the shuttle.

Phasing should be adjusted with the printer printing at full paper width.

IMPORTANT

The printer must be printing the Phase pattern of “H’s” when the Phasing Value is changed, or the New Phasing Value will not be written into NVRAM. If the value is changed when not printing, the printer will return to its default phasing value when powered off then back on.

1. Raise the printer cover.
2. Install the ribbon.
3. Load full width (136 column) paper and set the top of form.
4. Power on the printer.
5. If the printer is on-line, press the **ON LINE** key to place the printer off-line. “OFFLINE / CONFIG. CONTROL.” displays.
6. On the control panel, press the **▲ + ▼** keys to unlock the **ENTER** key. “ENTER SWITCH UNLOCKED” briefly displays. (If “LOCKED” displays, simply press **▲** and **▼** again. This is the default key combination. The lock/unlock key combination can be programmed by the user. If **▲ + ▼** does not unlock **ENTER**, get the combination from the user.)
7. Press the **◀** key. “OFFLINE / DIAGNOSTICS” displays.
8. Press **▼**. “DIAGNOSTICS / Printer Tests” displays.
9. Press **▼**. “Printer Tests / Shift Recycle” displays.
10. Press **◀** until “Printer Tests / Phase Printer” displays.
11. Press **ENTER**. The display shows “Printer Tests / Phase Printer” and the test begins. The current phasing value is printed on the left of the printed pattern of all H’s. As the pattern prints, compare the H’s to the figure below. If the phasing needs adjustment, go to step 12. If the phasing is OK, go to step 15.



12. Press ▼: The current phase index displays. Press ▼ again: An asterisk (*) appears next to the phase value.
 13. Press ► to increase or ◀ to decrease the phasing index value, then press **ENTER** to activate the value as it prints. Continue to increase or decrease the phasing index until the pattern of H's is acceptable.
 14. Press ▲ twice: "Printer Tests / Phase Printer" displays.
 15. Press **ENTER** to stop the test.
 16. Press **CLEAR**. "OFFLINE / CONFIG. CONTROL" displays.
 17. Press ▲ + ▼ (or the key combination set by the user). "ENTER SWITCH LOCKED" briefly displays.
 18. Close the printer cover.
 19. Press the **ON LINE** key to place the printer on-line.
- NOTE:** If you changed the phasing value, power down the printer, remove the shuttle cover, and write the new phase value on the aluminum shuttle casting.