

## S E R V I C E N O T E

SUPERSEDES: 5DX-95-05  
Dated March 21, 1995

## HP 5DX Structural Process Test System

### Y-Axis jams up during operation

#### Situation / Solution:

Procedure to align the Y-Axis rail

- 1) Turn the power switch on the motion control box to the "OFF" position.
- 2) Open the three Main Cabinet access panels located on the front side, right side, and rear side of the Main Cabinet.
- 3) Loosen the Y-Axis leadscrew clamp mounting screws - located at each end of the lead-screw. For the Y-Axis the front and rear clamps screws must all be loosened.
- 4) Pull or push the Y-Axis rail towards the servomotors such that the rail is against the mechanical stop.
- 5) Loosen the four ballnut mounting screws for each of the Y-Axis leadscrews.
- 6) Tighten the leadscrew clamp screws located at the motor end of each of leadscrews.
- 7) Move the Y-Axis rail to the mechanical stop away from the axis servomotors.

*Continued*

DATE: September 1997

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

## INFORMATION ONLY

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ENTITY:

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ADDITIONAL INFORMATION:

- 8) Tighten the remaining leadscrew clamp screws for the the Y-Axis.
- 9) Move the rail away from the mechanical stop and then back to the stop two to three times. Tighten the leadscrew ballnut mounting screws for each leadscrews.
- 10) Move the Y-Axis rail away from the mechanical stop at least 75% of leadscrew length and back to the stop. The rail should move with a minimum of resistance. If the rail is difficult to move repeat the alignment procedure.
- 11) Push the master reset button on the front of the main computer and hold. Turn the power switch for the motion control box to "ON". Release the master reset button and allow the computer to reboot. Note any error messages and reboot if necessary.
- 12) Return the machine to normal operation.

See diagram below for location of mechanical parts mentioned in procedure.

