

RP04/5/6 HEAD ALIGNMENT PROGRAM

ABSTRACT :

A program to check out head alignment of RP04/05/06, or used as a tool to align head with the appropriate drive test box.

The program also contains a utility routine which performs 5000 random seeks without data transfers. The random seek utility allows the operator to exercise the drive with the alignment pack in place and then re-verify head alignment.

OPERATING PROCEDURES :

START ADDRESSES:

SA=200 normal starting (RH11 / RH70 has standard address and vector)

SA=204 to change non-standard addresses of RH11 / RH70.

Connect the test box and mount the alignment pack.

Select the drive to be aligned in response to the typeout on the console.

Answer the mode of operation : A / V or E

A= alignment V= verify E= exerciser (5000 seeks)

If an A is selected, the program will position the heads over the alignment cylinder and then ask for a head. The head entered will be selected and the program will ask for a new head. Until the new head is entered, the last one will remain selected.

HEAD ALIGNMENT:

on RP04/05 the program checks for each head being within +/-150 microinches of track centerline of CYL 245 and +/-350 microinches of track centerline of CYL 004 and 400.

on RP06 the program checks for each head being within +/- 75 microinches of track centerline of CYL 496 and +/-175 microinches of track centerline of CYL 008 and 800.

If not within these limits, the program will type an error message for that particular head. If SW 00=1, the actual value of the offset will be typed out. Heads out of tolerance will not be identified.

SWITCH SETTINGS :

SW15= 1 halt on error

SW13= 1 inhibit error typeout

SW09= 1 loop on error

SW02= 1 check alignment of the specified head

SW01= 1 loop on the current head

SW00= 1 type all track center values

use "CONTROL G" to enter software SWR at loc. 176