2467-Magnetic Fields (continued)

checked by forcing the shift algorithm, and by using a control change to cause a display update; e.g., Press the CH4 VOLTS/DIV button (CH4 does not need to be on). Wait for 7 to 10 seconds and press again. Check the top limit as the R/O steps across in its highest position. Perform at least 7 control changes to ensure the R/O top limit is reached. If the R/O enters the red border, then perform CAL 07.

NOTE

The 2467 R/O shift pattern is an MCP aging protection algorithm.

The typical max shift distance in one direction is 0.4 divisions.

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2754/P, 2755/P: 16-20MHz VCO TUNE SENSITIVITY AND RANGE CAL PROCEDURE

REF: 2754/P SERVICE VOLUME 1
P/N 070-6097-00

2755/P SERVICE VOLUME 1
P/N 070-6032-00

The following paragraph should be used to replace step 4c of the 16-20 MHz VCO calibration procedure "Tune Sensitivity and Range." This procedure is located on page 6-41 of the product service manuals listed above.

Page 6-41, Step 4, Paragraph c --

CHANGE TO READ:

c. Press <SHIFT> 0 and select item 6 from the menu; then press <SHIFT> 0, and select item 0 from the menu. Now select frequency display of 2nd LO (2). Readout will now indicate the 2nd LO frequency.

Calibration step 4c has been revised to employ the key sequence <SHIFT> 0,6 for disabling frequency corrections. Previously, <SHIFT> 7 was used for this purpose. However, although the <SHIFT> 7 key sequence will disable frequency corrections, this diagnostic mode does not disable the "Continuous Center Frequency Tuning" mode of operation. As a result, the 16-20MHz VCO frequency is recentered and the 1st L.O. frequency is offset by an equal amount, whenever the 16-20MHz VCO frequency approaches the end of its tuning range.

Key sequence <SHIFT> 0, 6 will disable frequency corrections and the "Continuous Center Frequency Tuning" mode. Because the 16-20MHz VCO "Tune Sensitivity and Range" calibration procedure requires voltage and frequency measurements at both extremes of the VCO frequency range, the <SHIFT> 0, 6 key sequence must be used whenever calibration is required.

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4041 TAPE "MTPACK" PROGRAM

The manufacturer of the DC100 tape cartridge recommends that the tape be fully wound from end-to-end periodically. Usually, normal use performs this function. However, some users access the same program repeatedly, and may eventually experience tape jamming. Also, the tape should be completely wound from end-to-end if it has been in storage a long time, or subjected to extreme temperatures.

Below is a program that will perform an end-to-end tape wind. This program gets the record count of the tape from its header record (determined during Tape Format), then accesses the last record on that tape. The program takes approximately one minute. No data is added or deleted from the tape, so it is safe to use on all tapes. The tape must be formatted for the program to function. (Pullout F)

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Attachment for '4041 Tape 'MTPACK' Program'

```
100  Rem  MTPACK program
110  Rem  variables used: lu, last_rec, scratch$
120  Integer lu, last_rec
130  Lu=123 ! Logical unit for accessing tape.
140  Dismount "TAPE:" ! Close all LUs open to the tape.
150  Print "DC100 Tape Packer."
160  Input prompt "Insert Tape to Pack, hit <CR>.":scratch$
170  Open #lu:"TAPE(phy=yes):"
180  Rbyte  #lu:1,scratch$  !  Read the tape header record,  set  last
     record #.
190  Last_rec=asc(seg$(scratch$,29,1))+asc(seg$(scratch$,30,1))*256
200  Print "Winding Tape."
210  Rbyte #lu:last_rec, scratch$ ! Access the last record on tape.
220  Print "End of Tape Rewind."
230  Print "Rewinding Tape."
240  Dismount "TAPE:"
250  Print "End of Tape Rewind."
260  Print "Tape Pack Done."
270  End
```