

Product Code: DEC-12-SE2D-DN1
Product Name: LAP6-DIAL-MS for the RK8F
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This manual is a supplement to the LAP6-DIAL
Programmer's Reference Manual, DEC-12-SE2D-D
and the DIAL-MS Supplement, DEC-12-SE2D-DN.

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1.0 NEW FEATURE

DIAL-MS has been modified to provide support for four RK05 disks. This feature makes available to the PDP-12 user more low cost mass random access storage than that previously available from Digital Equipment Corporation.

2.0 SYSTEM IMPROVEMENTS

From 1 to 4 RK05 disks may be accessed by DIAL-MS. The unit numbers for addressing RK8F devices for DIAL-MS commands are:

<u>Device</u>	<u>Unit Number</u>	<u>Disk Unit</u>
1 RK05 disk	10 - 16	0 - 6
2 RK05 disks	20 - 26	7 - 15 ₈
3 RK05 disks	30 - 36	16 - 24 ₈
4 RK05 disks	40 - 46	25 - 33 ₈

The logical unit size has been increased from 1000₈ blocks to 1600₈ blocks. This was necessary to provide the user access to all of the disks. The logical unit size is also compatible with LINC tapes marked for 1600₈ blocks. PIP has been modified to treat logical units as 1600₈ block devices. DIAL-MS itself, has not been modified to operate on files which reside partially or entirely beyond block 777₈. This means that the DIAL commands AP, SP, AB, SB, LO, AS, LI, QL, and PS will not operate correctly on a file whose last block lies beyond block 777₈. Use PIP to move files in and out of the area beyond block 777₈.

3.0 SUGGESTED MODE OF OPERATION

3.1 Initialization of a Formatted Disk

The following short procedure is used to initialize a formatted disk:

1. Insert the cartridge into the disk drive and load it.
(Set the RUN/LOAD switch to RUN.)

2. Mount the RK8F DIAL-MS tape on unit 0, write enabled.
3. Set the left switches (LSW), right switches (RWS), and the mode switch as follows:

LSW = 0701
 RSW = 7310
 MODE = LMODE
4. When the disk is ready, indicated by the ready light on the disk drive, press I/O Preset, DO, and START 20.
5. Load PIP from tape unit 0 and copy unit L0 onto the system unit R0. (The PIP used must be that which is supplied with the RK8F system.)
6. Return to DIAL-MS, display the index on unit 10, and delete any files which are not required on the disk, such as the PIP sources and the BOOTSTRAP source. This step frees storage space for commonly used programs.
7. Load PIP from unit 10 and copy the most commonly used system programs such as MARK12, CREF, FOCAL-12, TED, etc., from other DIAL-MS tapes onto unit 10.
8. If a backup of this system now residing on logical unit 10 is desired, copy it onto a LINC tape marked for 16000₈ blocks. To restore this tape onto another cartridge, it is only necessary to mount this tape on unit 0 and perform steps 1 through 5.

3.2 Bootstrapping DIAL From the Disk

Assuming that the disk has been initialized as in section 3.1 and that the bootstrap binary is stored in block 0 on the disk, the DIAL-MS system may be restarted using the following procedure:

1. Set Switches

LEFT Sw. — LSW = 0020
 RIGHT Sw. — RSW = 6743
 MODE = PMODE (8 n.d.c)
2. Press STOP, FILL, FILL STEP
3. Set RSW = 5021
4. Press FILL STEP, I/O PRESET, and START 20