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## AppleWorks on 5.25-Inch Disks: Printing to LaserWriter

This article last reviewed: 1 May 1989

This article describes how to put together three 5.25-inch disks for printing to a LaserWriter from an Apple II with AppleWorks (releases 2.0 and later). This makes the AppleWorks-LaserWriter connection available when only one or two 5.25-inch disk drives reside on the Apple II system.

### Overview

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The process requires these three disks:

- The IWEM.BOOT Disk
- The APPLEWORKS Startup Disk
- The APPLEWORKS Program Disk

Have these disks handy to go through the process described below. The rest of the article describes what to do with each disk, beginning with the IWEM.BOOT disk. The article concludes with listings of the catalogs of the three disks.

### The IWEM.BOOT Disk

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For AppleWorks to print to a LaserWriter, you need to download the ImageWriter Emulator (IWEM) to the LaserWriter. To do this, you need the disk labeled: IWEM.BOOT. Follow these steps:

- 1) Start up the Apple II with the IWEM.BOOT disk. This leaves the user at the Applesoft BASIC prompt.
- 2) At the prompt, type:  
  
    -CHOOSER.II
- 3) Select "LaserWriter" in the top left scroll box.
- 4) In the lower left scroll box, select the zone of the desired LaserWriter.
- 5) In the top right scroll box, select the name of the desired LaserWriter.

Once you select the LaserWriter in the third box, CHOOSER.II checks for the presence of IWEM. If not already downloaded, it will be downloaded.

6) Quit from CHOOSER.II.

This procedure needs to be used each time the LaserWriter is powered off and back on. The power cycle causes IWEM to be purged. Occasionally, the IWEM may be corrupted by other printing sessions, like a Macintosh printing session. If an Apple II workstation attempts to print to the IWEM with no results, try downloading the IWEM again.

#### The APPLEWORKS Startup Disk

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With the IWEM downloaded, the next step is to start up with the APPLEWORKS startup disk and set the desired printer as the default printer for the user. With the disk configured as below, on startup, the Applesoft prompt appears. Follow these steps:

1) At the prompt, type:

```
-CHOOSER.II
```

This time, CHOOSER.II is used only to select the printer for use by AppleWorks. The APPLEWORKS startup disk assumes the IWEM is downloaded.

2) Select the same choices that were selected in the IWEM.BOOT section. The selection is written to the APPLEWORKS startup disk. Unless the printer is moved, renamed, or an alternate printer is desired, you do not need to run CHOOSER.II again during future AppleWorks sessions.

3) Quit CHOOSER.II.

This presents the following request:

```
ENTER PREFIX (PRESS "RETURN" TO ACCEPT)
```

4) In response, type:

```
/APPLEWORKS/
```

and press RETURN. This displays the request:

```
ENTER PATHNAME OF NEXT APPLICATION
```

5) In response, type:

```
APLWORKS
```

and press RETURN. This runs the AppleWorks application. AppleWorks requests the APPLEWORKS program disk.

The APPLEWORKS Program Disk

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Continue the process by following these instructions:

- 1) Insert the APPLEWORKS program disk. Then press the space bar and RETURN.
- 2) Once in AppleWorks, select:  
  
    #5: Other Activities.
- 3) Then select:  
  
    #7: Specify information about your printer(s)
- 4) Then select:  
  
    #2: Add a printer (maximum of 3)
- 5) Next select:  
  
    #2: Apple ImageWriter
- 6) Give this ImageWriter driver a name to represent it as the LaserWriter on the network (like "Network LaserWriter").
- 7) Designate the correct slot -- the slot the Workstation Card is in on an Apple IIe or slot 7 on an Apple IIgs.
- 8) The default settings on the next screen are correct, therefore, ESCAPE back to the Main Menu. From this point, everything (including control codes for underlining, bold-facing, and so on) functions as though AppleWorks is printing to an ImageWriter.

Changes To Be Made

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Beyond configuring the disks with the following files, one filename needs to be changed. On the APPLEWORKS startup disk, APLWORKS.SYSTEM needs to be changed to APLWORKS. Leaving the .SYSTEM off allows BASIC.SYSTEM to be the startup application, thus, allowing CHOOSER.II to be run, following startup with the APPLEWORKS startup disk and before running APLWORKS.

There are 21 blocks available on the APPLEWORKS startup disk. It may be possible to create a small menu program to "front end" the APPLEWORKS disk. The menu program is not covered in this document.

The three disk configurations follow:

IWEM.BOOT  
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PRODOS  
CHOOSER.II  
CHOOSER5.OVR

IWEM  
CHOOSE4.OVR  
CHOOSE3.OVR  
MTXABS.0  
CHOOSE2.OVR  
CHOOSE1.OVR  
CHOOSE.0  
ATINIT  
BASIC.SYSTEM

12 Files Listed, 262 Blocks Used, 18 Available

APPLEWORKS (startup disk)

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PRODOS  
APLWORKS  
SEG.00  
SEG.RM  
SEG.XM  
SEG.EL  
CHOOSE.II  
CHOOSE5.OVR  
CHOOSE4.OVR  
CHOOSE3.OVR  
CHOOSE2.OVR  
CHOOSE1.OVR  
CHOOSE.0  
MTXABS.0  
ATINIT  
BASIC.SYSTEM

16 Files Listed, 259 Blocks Used, 21 Available

APPLEWORKS (program disk)

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SEG.M0  
SEG.M1  
SEG.PR

3 Files Listed, 279 Blocks Used, 1 Available

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 3910