



# Tech Info Library

## Macintosh and LaserWriter SCSI Termination Outlined (5/96)

Revised: 5/30/96  
Security: Everyone

Macintosh and LaserWriter SCSI Termination Outlined (5/96)

=====  
Article Created: 7 March 1994  
Article Revised/Updated: 30 May 1996

TOPIC -----

Is there a table that outlines the specific termination requirements and capabilities of the Macintosh and Apple printer product lines?

DISCUSSION -----

Below is a table that includes the SCSI termination specifics for all Macintosh models and LaserWriter printers (current as of this issue) and describes whether termination power (TPWR) is supplied for either the internal or external SCSI bus, depending on which is present (one or both).

Macintosh Models  
=====

Here is a description of the information provided in each column of the following table:

Additional Termination  
-----

Indicates if additional termination is needed for a separate internal bus.

Internal Device  
-----

Indicates if an internal device or BUS TPWR is supplied.

External Bus  
-----

Indicates if an external BUS TPWR is supplied.

Term. Type  
-----

Indicates the type of terminator required for the external bus.

SCSI Mode

-----

Indicates if the CPU can be used in SCSI disk mode. Currently only some PowerBook models support SCSI Disk Mode.

NOTE: The asterisks in the table correspond to footnotes that follow the table.

CPU Name	Additional Termination	Internal Device	External Bus	Term. Type	SCSI Mode
Macintosh Plus	No	No	No	Gray	No
Macintosh SE	No	Yes	Yes	Gray	No
Macintosh SE/30	No	Yes	Yes	Gray	No
Macintosh Classic	No	Yes	Yes	Gray	No
Macintosh Classic II	No	Yes	Yes	Gray	No
Macintosh Color Classic	No	Yes	Yes	Gray	No
Macintosh II	No	Yes	Yes	Gray	No
Macintosh IIX	No	Yes	Yes	Gray	No
Macintosh IICX	No	Yes	Yes	Gray	No
Macintosh IICI	No	Yes	Yes	Gray	No
Macintosh IIFX	No	Yes	Yes	Black	No
Macintosh IIVX	Automatic*	Yes	Yes	Gray	No
Macintosh IIVI	Automatic*	Yes	Yes	Gray	No
Macintosh LC	No	Yes	Yes	Gray	No
Macintosh LC II	No	Yes	Yes	Gray	No
Macintosh LC III	No	Yes	Yes	Gray	No
Macintosh LC 520	Intrnl hd	Yes	Yes	Gray	No
Quadra 605	No	Yes	Yes	Gray	No
Quadra 610	On last device	Yes	Yes	Gray	No
Macintosh 630 Family	Intrnl hd	Yes	Yes	Gray	No
Quadra 650	Intrnl hd	Yes	Yes	Gray	No
Quadra 700	Intrnl hd	Yes	Yes	Gray	No
Quadra 800	On last device	Yes	Yes	Gray	No
Quadra 900	On cable	Yes	Yes	Gray	No
Quadra 950	On Cable	Yes	Yes	Gray	No
Performa 200	No	Yes	Yes	Gray	No
Performa 400	No	Yes	Yes	Gray	No
Performa 405	No	Yes	Yes	Gray	No
Performa 410	No	Yes	Yes	Gray	No
Performa 430	No	Yes	Yes	Gray	No
Performa 450	No	Yes	Yes	Gray	No
Performa 460	No	Yes	Yes	Gray	No
Performa 466	No	Yes	Yes	Gray	No
Performa 467	No	Yes	Yes	Gray	No
Performa 475	No	Yes	Yes	Gray	No

Performa 476	No	Yes	Yes	Gray	No
Performa 550	Intrnl hd	Yes	Yes	Gray	No
Performa 600	Automatic*	Yes	Yes	Gray	No
Macintosh Portable	No	No	No	Gray	No
PowerBook 100	No	Yes	No	Gray	Yes
PowerBook 140	No	Yes	No	Gray	No
PowerBook 145	No	Yes	No	Gray	No
PowerBook 145b	No	Yes	No	Gray	No
PowerBook 150	No	No	No	Gray	No
PowerBook 160	No	Yes	No	Gray	Yes
PowerBook 165c	No	Yes	No	Gray	Yes
PowerBook 170	No	Yes	No	Gray	No
PowerBook 180	No	Yes	No	Gray	Yes
PowerBook 180c	No	Yes	No	Gray	Yes
PowerBook Duo 210	No	Yes	No	Gray	Yes**
PowerBook Duo 230	No	Yes	No	Gray	Yes**
PowerBook Duo 250	No	Yes	No	Gray	Yes**
PowerBook Duo 270c	No	Yes	No	Gray	Yes**
PowerBook 520/520c	No	No	No	Gray	Yes
PowerBook 540/540c	No	No	No	Gray	Yes
Duo Dock	No	Yes	Yes	Gray	No
Power Macintosh 6100!	Last device	Yes	Yes	Gray	No
Power Macintosh 7100!	Intrnl hd	Yes	Yes	Gray	No
Power Macintosh 8100!	Last device	Yes	Yes	Gray	No

! Power Macintosh information is valid for all speeds of the particular Power Macintosh model.

#### Apple Workgroup Server

AWS 60	Intrnl hd	Yes	Yes	Gray	No
AWS 80	Intrnl hd	Yes	Yes	Gray	No
AWS 95	On cable	Yes	Yes	Gray	No

#### NOTES:

\* An active termination circuit automatically terminates the internal device when it is the last device on the bus. If a terminated device is attached to the external SCSI port, the internal termination is deactivated.

\*\* These PowerBook Duos work in SCSI Disk Mode with a minidock.

#### Printer Information

=====

Here is a description of the information provided in each column of the following table:

#### Direct Connect

-----

Indicates if the printer includes a direct SCSI connection.

External Port

-----  
 Indicates if the printer includes an external SCSI port (for additional font storage).

Term. Type

-----  
 Indicates the type of terminator required for the external port.

TPWR

-----  
 Indicates if termination power is supplied and, if so, if it is internal or external.

Reserved SCSI IDs

-----  
 Indicates if the printer includes a reserved SCSI ID and, if so, what ID number is reserved.

NOTE: The asterisks in the table correspond to footnotes that follow the table.

Printer Name	Direct Connect	External Port	Term. Type	TPWR	Reserved SCSI IDs
LaserWriter	No	No	n/a	n/a	n/a
LaserWriter Plus	No	No	n/a	n/a	n/a
LaserWriter IISC	Yes	Yes	Grey	No	7
LaserWriter IINT	No	No	n/a	n/a	n/a
LaserWriter IINTX	No	Yes	Gray	No	7
LaserWriter IINTXJ	No	Yes	Gray	No	7
LaserWriter IIIf	No	Yes	Black	No	6
LaserWriter IIg	No	Yes	Black	No	6
LaserWriter Pro 600	No	No	n/a	n/a	n/a
LaserWriter Pro 630	No	Yes	Black	Int-Yes Ext-No	6&7
LaserWriter Pro 810	No	Yes	Gray	Yes	7
LaserWriter Select 300	No	No	n/a	n/a	n/a
LaserWriter Select 310	No	No	n/a	n/a	n/a
LaserWriter Select 360	No	No	n/a	n/a	n/a
Personal LaserWriter SC	Yes	Yes	Grey	No	7
Personal LaserWriter LS	No	No	n/a	n/a	n/a
Personal LaserWriter NT	No	No	n/a	n/a	n/a
Personal LaserWriter NTR	No	No	n/a	n/a	n/a
Personal LaserWriter 300	No	No	n/a	n/a	n/a
Personal LaserWriter 320	No	No	n/a	n/a	n/a
Apple Color Printer	Yes	No	***	No	****
StyleWriter	No	No	n/a	n/a	n/a
StyleWriter II	No	No	n/a	n/a	n/a
Color StyleWriter Pro	No	No	n/a	n/a	n/a

NOTES:

\*\*\* The Macintosh model determines which terminator to use.

\*\*\*\* Indicates the SCSI ID is user-selectable.

Article Change History:

30 May 1995 - Corrected SCSI printer info.

23 Mar 1995 - Updated article; reformatted tables for readability.

22 Mar 1995 - Corrected wording of Duo Dock.

Copyright 1994-96, Apple Computer, Inc.

Tech Info Library Article Number:14806