Cable wiring for Red Ryder Host

Modem DB-25	Macintosh 512 DB-9	Macintosh Plus,SE, OR Mac II DIN-8	
1	1	4	Ground
2	5	3	Transmit-
3	9	5	Recieve-
7	3,8 (jumpered)	4,8	Grounds Receive+ to emulate RS232
8	7	2	Handshake (HSKi) used for CD (Carrier Detect)
20	6	1	HSKo used for DTR (Data Terminal Ready +12v)

This is a pinout list for wiring a Hayes Compatable modem to your Macintosh 512K(e) or Macintosh Plus, Macintosh SE, Macintosh II.

You can use this in conjunction with the 4 other files in this Stuffit file to create your own modem cable, or verify if yours is wired correctly. The other files in this package are a draw,pict, and paint file of the various connectors and how they should be wired. The variety of files is so that everyone has a way of looking at the files. I have also included Tech Note #65 from Apple that lists the pinouts of the Macintosh Plus connectors, which are the same as on the SE and the Macintosh II. The above pinouts are working correctly with my USR Courier HST and formerly a Courier 2400. They should work with any Hayes compatable modem.

My particular cable is making use of a DB-25 connector for the modem to a DB-9 which was used on the Macintosh 512K. I then convert this cable using a Macintosh Plus adaptor cable.

You should be able to locate parts to build your own cable at Radio Shack, or any decent electronics supply house in town. It consists of 4 parts, the DB-25, DB-9, Male Pins, and a 3 pair cable. Then you should be able to located a Macintosh Plus adaptor cable without to much of a problem. The Dealers you find these parts at should also carry the tools required for constructing the cable.

If you should **buy a cable from a dealer**, try and find some way to **verify its wiring to the above table.** The most important line that Host is looking for is **CD (Carrier Detect)** without this line Red Ryder Host will cycle forever when someone disconnects from Host, or if they drop carrier Host will not know it and then timeout, and cycle forever. **Also be aware that sometimes a cable can appear to be wired correctly,** but does not work, this is because in some cases as illustrated, **they jumper a couple pins together** for some reason, so when you go to verify a store purchased cable, **look for pins that are jumpered together as well.**

If your cable is wired properly, and Host still does not work, you might have some switch setting on the modem set incorrectly. Some modems do have switchs that control the **CD** line to hold it high all the time. This means it will never toggle to let Host know that carrier is gone. If you have a lite or LED on your modem, try verifying whether this lite is on when you are connected to another modem, and then goes out when you disconnect, if it does, then hopefully it should be working properly.

On newer modems, there are no switches. This means that the modem is programmable with special AT commands that are saved internally to the modem. You will have to scour your modem manaul to locate usually AT&?? commands that control specific settings of your modem. Newer Hayes modems do this, they can control almost every aspect of the modem with AT commands to the hardware. You will need to located the command that insures that CD is enabled, otherwise it will not work.

Lastly, the **INIT MODEM** and **HANGUP MODEM** files. These can be configured a variety of ways. depending on the modem and its capabilities, I am not going to attempt to go thru all the different ways you can setup these files. If you have a known good cable, and a properly configured modem, these files should not be to difficult to setup.

I hope all this will help you aolve a variety of modem problems when configuring Red Ryder Host. There is no way to address every modem, there are just to many. Let me just state, if you are using an Apple Personal modem, do yourself a favor, and get another modem, this modem because of the use of DIN-8 connectors on both ends makes it very difficult to locate a properly wired cable. I do know of at least one person that is using one with Host, however, he has a cable from back a ways, and I suspect that they are no longer wired the same way, and thus do not work with Host. You should be able to determine from the tables and pictures in this package if your modem cable should work with the Apple Personal.

If you have a Modem that is NOT Hayes compatable, you are opening the door for more problems. If you want to run Host, Please use a 100% Hayes compatable, it makes things alot easier.

Good Luck

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