# Hyperion™
# IN:TOUCH™
# Guide

**HYPERION IN:TOUCH GUIDE**

This manual is a non-technical user's guide that describes  the
IN:TOUCH  telephone  communication  system.   With  a telephone
attached to the Hyperion, you can place and  manage  both  data
and  voice  calls.   IN:TOUCH  also  enables  the Hyperion  to
communicate  with  a  wide  variety  of  remote  devices:  host
computers, personal computers, and other Hyperions.

UL #86H2
CSA LR33921-6
FCC Ident. CTJ7YM3000
FCC Regist. CTJ7YMF-70433-DT-E

## Trademarks

**Hyperion** is a trademark of Dynalogic Info-Tech Corporation.
**MS-DOS** is a trademark of Microsoft Corporation.
**IN:TOUCH** is a trademark of Dynalogic Info-Tech Corporation.
**IBM** is a trademark of International Business Machines
    Corporation.

## Disclaimer

This equipment generates and uses radio frequency energy and if not installed and used properly -- that is, in strict accordance with the manufacturer's instructions -- may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.

- Relocate the computer with respect to the receiver.

- Move the computer away from the receiver.

- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful:

"How to Identify and Resolve Radio-TV
Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

## FCC REQUIREMENTS

1)   The Federal Communications Commission (FCC) has established rules which permit the Hyperion to be directly connected to the telephone network. A jack is provided by the telephone company; jacks for this type of customer-provided equipment will not be provided on party lines or coin lines.

2)    If the Hyperion is malfunctioning, it may also be
      causing harm to the telephone network. The Hyperion
      should be disconnected until the source of the problem
      can be determined and until repair has been made. If
      this is not done, the telephone company may temporarily
      disconnect service.

3)    The telephone company may make changes in its technical
      operations and procedures. If such changes affect the
      compatibility or use of the Hyperion, the telephone
      company is required to give adequate notice of the
      changes.


## Company Notification

4)    Before installing the Hyperion to the telephone network,
      the telephone company must be provided with the
      following:

      a)    Your telephone number

      b)    The FCC registration number

      c)    The ringer equivalence number

      d)    The USOC jack required

      Items b, c, and d are indicated on the equipment label.


      The telephone company should also be notified when the
      Hyperion is permanently disconnected from the line.


## Service Requirements

5)    In the event of equipment malfunction, all repairs will
      be performed by Dynalogic Info-Tech Corporation, or an
      authorized agent of Dynalogic Info-Tech Corporation.

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## INTRODUCTION

IN:TOUCH (TM) provides you with a dynamic communications tool which makes and manages both voice and data telephone calls.   You create and maintain a personal telephone directory (known as your dialer file) which you may use to dial calls automatically.   In addition, by pressing a single key, you may speed dial any of up to 40 stored telephone numbers.

This Hyperion IN:TOUCH Guide is divided into three parts:

**Part I**     - **Tutorial**, guides you through a few exercises that will allow you to quickly become adept at using many of the Hyperion's IN:TOUCH capabilities.

**Part II**    - **Basic Concepts**, describes some of the key ideas upon which IN:TOUCH is based. You should understand these concepts if you are to use IN:TOUCH effectively.

**Part III** - **Using IN:TOUCH**, describes a series of IN:TOUCH applications such as: automatic dialing, editing the dialer file, speed dialing, regular dialing, data calls, plus a quick reference of all IN:TOUCH commands.

The Hyperion IN:TOUCH Guide is one of eight available Hyperion manuals:

1) The Hyperion Setup Guide, which was the first book you read about the Hyperion, describes first-time setup procedures.  The setup guide also contains a quick reference to all the Hyperion commands.

2) This Hyperion User Guide is second in the series. It describes how to use the Disk Operation System (DOS), and the single-line text editing system EDLIN.

3) A Hyperion Programmer Guide. This is a BASIC and Assembler manual and explains these sophisticated programming languages which you may wish to use when you become more familiar with your Hyperion.

4) Then there is a user guide written for each of the other software systems sold with the Hyperion: **IN:SCRIBE**, the powerful text editor; **MULTIPLAN** (TM), the worksheet system; **1-2-3**, a data base management system;   and **Aladin**   a   performance-oriented information processing system.

Part I

TUTORIAL

## 1.    INTRODUCTION

The first part of this guide is an IN:TOUCH tutorial. Its objective is to guide you step-by-step through the IN:TOUCH procedures needed to do basic telephone communiciation tasks.

### Assumptions

It is assumed that you are already familiar with the Disk Operating System (DOS) as described in the Hyperion user Guide, since this DOS is the necessary operating system from which IN:TOUCH is first accessed, and to which IN:TOUCH relinquishes control after a communications session.

### Organization of this Tutorial

This tutorial is divided into 11 sections:

- Section 2 describes the interconnection to other communications devices.

- Section 3 shows how to access IN:TOUCH from DOS.

- Section 4 describes how to configure the Hyperion to match the local telephone network it is being connected to.

- Section 5 shows how to dial a voice call.

- Section 6 shows how to redial the last number dialed.

- Section 7 creates a dialer file entry.

- Section 8 and 9 describe speed dialing.

- Section 10 discusses the difference between voice and data calls.

- Section 11 summarizes the concepts presented in this tutorial.

After this tutorial is completed, you should read Part II of this guide. Part II describes the basic IN:TOUCH concepts in detail. When actually using IN:TOUCH, refer to Part III for a detailed description of all IN:TOUCH applications. IN:TOUCH commands are summarized alphabetically at the end of Part III.
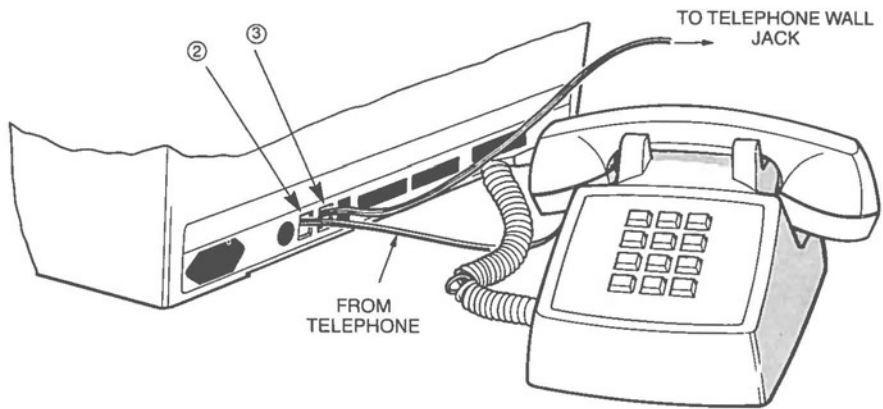
**Fig.  I-1** - Connecting your Hyperion to the local telephone
network.

## 2.     INTERCONNECTION

The Hyperion is capable of communicating with a wide variety of remote devices, from the host computers of various data services to microcomputers, including IBM personal computers and other Hyperions. With your telephone attached to the Hyperion, you can make and manage not only data calls, but voice calls as well.

### STEP

| |
|---|
| 1) Make sure your Hyperion is connected to the local telephone network as described in the Hyperion Setup Guide and as shown in Fig. I-1 at left. |

The IN:TOUCH communications system has been provided to make the telecommunication of information as simple and straightforward as possible.

```
┌──────────────────────────────────────────────────────────────────────┐
│                                                                        │
│  ┌────────────────────────────────────────────────────────────────┐   │
│  │PHONE:"             "  Modem    Voice Pulse  Off        00:00:00 │   │
│  └────────────────────────────────────────────────────────────────┘   │
│   Current #: __                                                        │
│   Previous #:                                                          │
│  ┌────────────────────────────────────────────────────────────────┐   │
│  │                                                                │   │
│  └────────────────────────────────────────────────────────────────┘   │
│                                                                        │
│                                                                        │
│                                                                        │
│                                                                        │
│                                                                        │
│                                                                        │
│   ┌───┐ ┌──────┐┌─────┐┌──────┐┌─────┐        ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌────┐ │
│   │DOS│ │Dialer││Srvce││LAST_#││ SPKR│ 12:10  │SD1│ │SD2│ │SD3│ │SD4│ │HELP│ │
│   └───┘ └──────┘└─────┘└──────┘└─────┘        └───┘ └───┘ └───┘ └───┘ └────┘ │
│                                                                        │
└──────────────────────────────────────────────────────────────────────┘
```
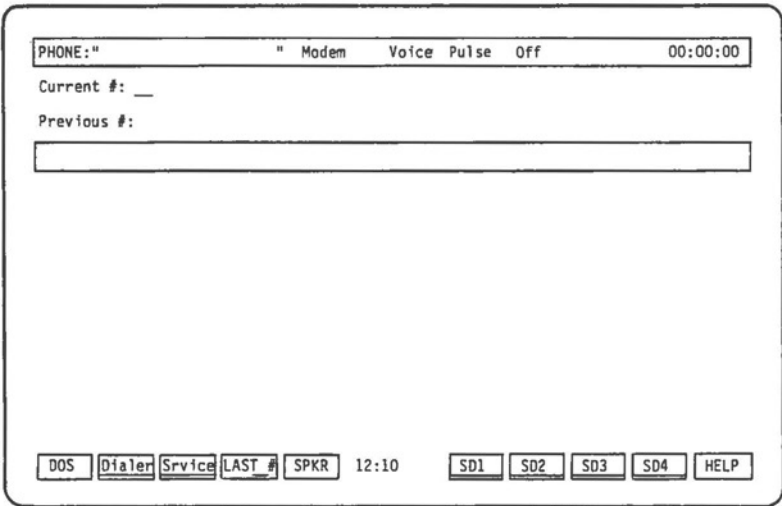
**Fig. I-2**  - The IN:TOUCH screen format.

### 3.    ACCESS THE COMMUNICATIONS SYSTEM

IN:TOUCH is a special program that is accessed by entering the command **PHONE**. One of the soft keys (F6) can be used to type in this command.

STEP

---

2) Make sure that you are in the DOS system.   The DOS soft key line should be displayed.

3) Insert the Master IN:TOUCH Diskette into drive A.

4) Press the soft key **F6** (PHONE) on the  DOS  soft key line.

   The word PHONE appears on the screen at the cursor position, and a carriage return is automatically inserted.

OR

   Enter the word **PHONE**, then press **Rtn.**

---

The screen clears, and after a few seconds, the IN:TOUCH screen (as shown in Fig. I-2) appears.

Note that the soft key labels have changed again.   The communication system's many soft keys and capabilities are described in Parts II and III.

Pressing **F10** will display a HELP screen describing the function of each soft key. Pressing **Ctrl + F10** will display the full IN:TOUCH soft key map of all soft key lines in IN:TOUCH.

```
┌─────────────────────────────────────────────────────────────────┐
│ ┌───────────────────────────────────────────────────────────┐   │
│ │ PHONE:"              "  Modem   Voice  Pulse  Off    00:00:00│  │
│ │ Current #: __                                               │  │
│ │ Previous #:                                                 │  │
│ │ ┌─────────────────────────────────────────────────────────┐│  │
│ │ └─────────────────────────────────────────────────────────┘│  │
│ │    Default Dialing Type: [Tone] Pulse                       │  │
│ │          Data Direction: (Modem)  Serial  Acoustic          │  │
│ │ Dialing Short Form 'A':   "        "                        │  │
│ │ Dialing Short Form 'B':   "        "                        │  │
│ │ Dialing Short Form 'C':   "        "                        │  │
│ │  Seconds Pause For '+':   1                                 │  │
│ │    External Phone Type: (Standard)  Keyset                  │  │
│ │                                                             │  │
│ │                                                             │  │
│ │                                                             │  │
│ │ ┌────┐ ┌────┐ ┌────┐ ┌────┐          ┌──┐┌──┐┌──┐┌──┐ ┌────┐│  │
│ │ │SAVE│ │←←  │ │→→  │ │↑↑  │↓↓ 12:19   │  ││  ││  ││  │ │HELP││  │
│ │ └────┘ └────┘ └────┘ └────┘          └──┘└──┘└──┘└──┘ └────┘│  │
│ └───────────────────────────────────────────────────────────┘   │
└─────────────────────────────────────────────────────────────────┘
```

**Fig.** I-3 - The configuration table, and soft key line.

## 4.    CONFIGURE TO MATCH THE TELEPHONE NETWORK

At the top of the IN:TOUCH screen, in the center of  the
bar of highlighting, four words appear.  These are reminders of
your  current Hyperion configuration.  The third word is either
**Pulse** or **Tone,** indicating the  type  of  dialing  currently  in
effect.   The  Hyperion  can be configured to match the type of
telephone dialing available wherever you happen  to  be.   Both
pulse  (the  "clicks"  for a dial system) and tone (the "notes"
for a keypad system) are available.

If the dialing type currently in effect must be changed,
use the following procedure:

**STEP**

---

5)  Press **F3,** the S̲r̲v̲i̲c̲e̲ soft key  to  display  the
    SERVICE soft k̲e̲y̲ ̲l̲i̲n̲e̲.

6)  Press **F8,** the CONFIG soft key.

---

The IN:TOUCH configuration table appears on the  screen,
with  a block cursor (bar of highlighting) located on the first
line. Notice that the  soft  key  line  contains  four  labels
consisting  of  double  arrows.  The associated keys control the
block cursor, moving it  in  the  directions  indicated:  left,
right, up a̅nd down.

**STEP**

---

7)  Using the cursor control soft  keys,  move  the
    highlight to either **Pulse** or **Tone,** as required.

8)  Press F1, the SAVE soft key.

    The configuration  table  disappears,  and  the
    SERVICE soft key line is redisplayed.

9)  Press **F1,** the M̲a̲i̲n̲ soft key.

---

...continued

You are now back to the MAIN  soft  key  line.   If  you
changed the dialing type, notice that the third word at the top
of the screen has also been changed accordingly.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                                                                         │
│  ┌────────────────────────────────────────────────────────────────┐    │
│  │PHONE:"Fisher, Leslie      "  Modem    Voice  Tone  Low    00:01:22│    │
│  │ Current #:  5 5 5 - 1 1 3│3│ _                                   │    │
│  │ Previous #:                                                      │    │
│  │ ┌────────────────────────────────────────────────────────────┐ │    │
│  │ │                                                            │ │    │
│  │ └────────────────────────────────────────────────────────────┘ │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │                                                                │    │
│  │┌──────┐┌──────┐┌──────┐┌──────┐┌──────┐      ┌───┐┌───┐┌───┐┌───┐┌────┐│
│  ││HANGUP││Dialer││Srvice││LAST_#││VOLUME│ 12:40│SD1││SD2││SD3││SD4││HELP││
│  │└──────┘└──────┘└──────┘└──────┘└──────┘      └───┘└───┘└───┘└───┘└────┘│
│  └────────────────────────────────────────────────────────────────┘    │
│                                                                         │
└─────────────────────────────────────────────────────────────────────────┘
```
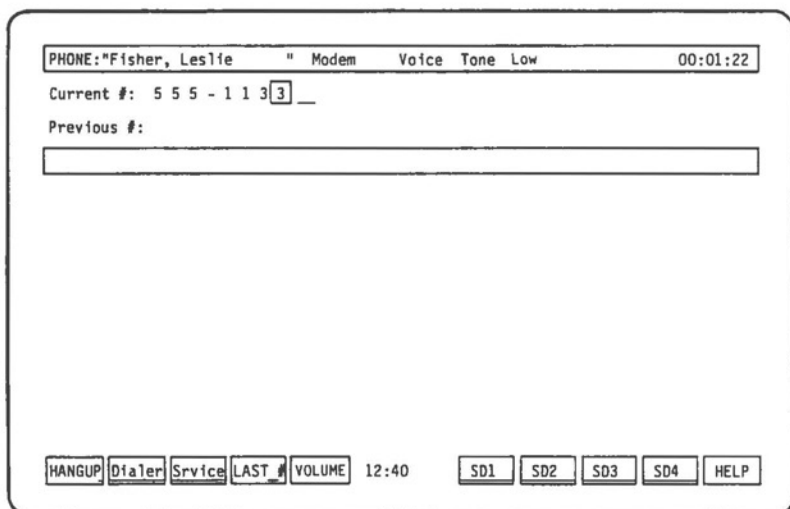
**Fig. 1-4 -** The IN:TOUCH screen again, this time with a  voice
call  in progress.   Note  that the soft key line
labels F1 and F5 have changed to HANGUP and VOLUME
respectively.  This is called the CALL ACTIVE soft
key line.

## 5.    DIAL A VOICE CALL

You can continue to use your telephone in the normal
manner when it is attached to the Hyperion. However, you may,
if you choose, take advantage of the automatic dialing feature
when placing a call.

### STEP

10) Press the **Num Lock** key until the octothorpe (#)
    appears in the center of the soft key line.

11) Using the numeric keypad, enter a 7-digit local
    number.

    Digits and the hyphen are all acceptable
    characters in a telephone number.

12) Press **F5**, the SPKR soft key.

    The soft key line changes to the the CALL
    ACTIVE soft key line shown in Fig. I-4.

    You will hear the system begin dialing the
    number. The cursor moves across the number,
    highlighting each one as it is being dialed;
    the cursor will stop at the last number.

13) When you hear the called party answer, pick up
    the telephone receiver to converse.

14) When the conversation ends, replace the
    receiver on the telephone to disconnect the
    call, or press **F1** (HANGUP).

    Soft key line changes back to the MAIN soft key
    line.

```
┌─────────────────────────────────────────────────────────────────┐
│  ┌──────────────────────────────────────────────────────────┐   │
│  │PHONE:"Fisher, Leslie      "  Modem    Voice Tone Low      00:01:22│
│  │ Current #:  5 5 5 - 1 1 3 3                                │   │
│  │ Previous #: 555-1133                                       │   │
│  │ ┌─────────────────────────────────────────────────────┐  │   │
│  │ │                                                     │  │   │
│  │ └─────────────────────────────────────────────────────┘  │   │
│  │                                                          │   │
│  │                                                          │   │
│  │                                                          │   │
│  │                                                          │   │
│  │                                                          │   │
│  │ HANGUP Dialer Srvice LAST_# VOLUME  12:40   SD1  SD2  SD3  SD4  HELP│
│  └──────────────────────────────────────────────────────────┘   │
└─────────────────────────────────────────────────────────────────┘
```
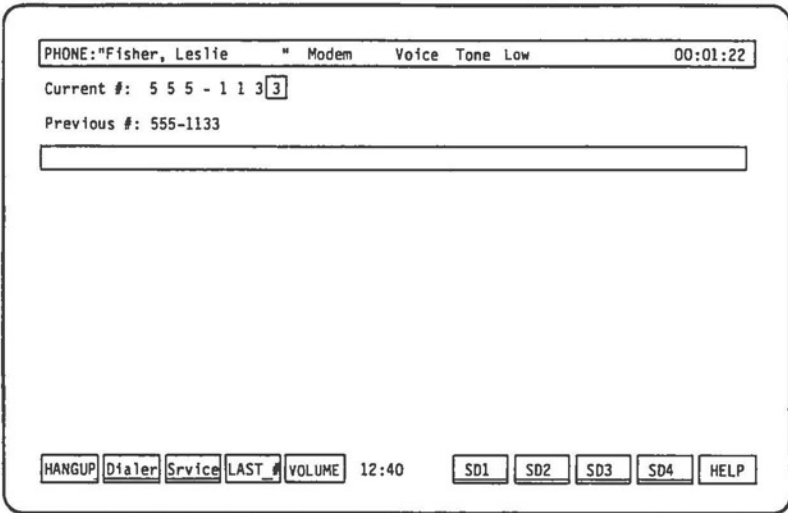
**Fig. I-5** - The main IN:TOUCH screen, with a redialed voice
call in progress.

## 6.    REDIAL THE LAST NUMBER CALLED

Whenever you dial a telephone call using the Hyperion, the number you dial appears at the top of the screen on the **"Current #:"** line. When the call is disconnected, the telephone number is moved to the **"Previous #:"** line. Calls to the "previous" number may be redialed by only one keystroke.

### STEP

```
15) Press F4, the LAST_# soft key.

    Soft key line changes to the CALL  ACTIVE  soft
    key line.

    You will hear the  system  begin  dialing  the
    number.

16) Press the F1 (HANGUP) key  to  disconnect  the
    call before it goes through,

                        OR

    when the called party  answers,  pick  up  the
    telephone receiver to converse.

17) When   the   conversation  ends,  replace  the
    receiver on the telephone  to  disconnect  the
    call; or press F1 (HANGUP).

    MAIN soft key line labels are redisplayed.
```

```
┌──────────────────────────────────────────────────────────────────────┐
│  ┌──────────────────────────────────────────────────────────────────┐ │
│  │ PHONE:"                    "  Modem   Voice  Tone  Low    00:00:00│ │
│  │                                                                    │ │
│  │ Current #: __                                                      │ │
│  │                                                                    │ │
│  │ Previous #:                                                        │ │
│  │ ┌────────────────────────────────────────────────────────────────┐│ │
│  │ │Search "                              "                          ││ │
│  │ └────────────────────────────────────────────────────────────────┘│ │
│  │   N A M E                          Number                          │ │
│  │                                                                    │ │
│  │   R y a n ,   T h e r e s a        555-1111                        │ │
│  │   S m i t h ,   J o h n            555-1234                        │ │
│  │   S m i t h s o n ,   E r i c      555-2222                        │ │
│  │   S m y t h e ,   J o a n n a      555-3333                        │ │
│  │   T h o m p s o n ,   S t e p h e n 555-4444                       │ │
│  │   V a n D o o r n ,   M i c h a e l 555-5555                       │ │
│  │  ┌─────────────────────────────┐   555-6666                        │ │
│  │  │A b r a m s o n ,   G e o f f │                                  │ │
│  │  └─────────────────────────────┘                                  │ │
│  │   A d a m s ,   G e o r g e        555-7777                        │ │
│  │   B r o w n ,   G a i l            555-8888                        │ │
│  │   C a r s o n ,   K a t h r y n    555-9999                        │ │
│  │   D e v l i n ,   R o n            555-0000                        │ │
│  │   E g a n ,   L i n d a            555-1122                        │ │
│  │   F i s h e r ,   L e s l i e      555-1133                        │ │
│  │ [Main] [FIND] [Srvice][START] [SPKR]  12:17   [↑↑] [↓↓] [Edit] [Add] [HELP]│ │
│  └──────────────────────────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────────────────────────┘
```

Fig. I-6 - The dialer file displayed.

## 7.    CREATE A DIALER FILE ENTRY

IN:TOUCH allows you to create a personal telephone directory, called a dialer file, in which you can store telephone numbers for reference and automatic dialing. Each name and telephone number you place in your dialer file is called an entry.

STEP

18)  Press **F2**, the DIALER soft key to display the current dialer file and DIALER soft key line (shown in Fig. I-6).

19)  Press **F9**, the Add soft key.

Your dialer file disappears, and you are presented with a blank line on which to type the new entry. The block cursor highlights the name field of this blank line.

The soft key line changes to the EDIT/ADD soft key line to enable you to move the block cursor and to save the new information.

20)  Using the alphanumeric keys, enter a name.

21)  Press **F5** (->->) or **Tab** to move the cursor one field to the right.

22)  Using the cursor-number keypad, enter the corresponding telephone number.

23)  Press **F1**, the SAVE soft key, to save the new entry.

You are returned to the dialer file and DIALER soft key line. The name and telephone number you have just entered are positioned at the block cursor.

**STEP**

```
24)  Press F5, the SPKR soft key.   This   activates
     the  Hyperion  speaker  and begins dialing the
     number highlighted by the  block  cursor  (the
     number you have just entered).

     The dialer file disappears and  the  soft  key
     labels  change  those for the CALL ACTIVE soft
     line.
```

```
PHONE:"                    "  Modem    Voice  Tone  Off                    00:00:00

Current #: __

Previous #:

  ┌──────────────────────────────────────────────────────────────────────┐
  └──────────────────────────────────────────────────────────────────────┘

       N A M E                          Number

  F1  M a s o n ,   T o n y             555-2211
  F2
  F3  F i s h e r ,   L e s l i e       555-1133
  F4
  F5  S m i t h ,   J o h n             555-1234
  F6
  F7  A b r a m s o n ,   G e o f f     555-6666
  F8
  F9  O v e r t o n ,   N e i l         555-2244
  F10 R y a n ,   T h e r e s a         555-1111

  ESC cancels request for this speed dialer.

  Mason,  F2  Fisher  F4  Smith,  12:36      F6  Abrams  F8  Overto Ryan,
```

**Fig. I-7** - A speed dialer screen with entry added.

## 8.     ADD A DIALER FILE ENTRY TO A SPEED DIALER

Speed dialers are short lists of dialer file entries. Telephone numbers stored in speed dialers are more quickly accessed than those stored in the main dialer file. Consequently, frequently-called numbers should be listed in one of the 4 available speed dialers.

To copy a number from the dialer file into a speed dialer, you must first highlight the number in the dialer file. Currently the entry just created should be highlighted on the screen.

**STEP**

25) Press **F2** (Dialer) to redisplay the dialer file and DIALER soft key line.

26) Press **F8**, the EDIT soft key.

Your dialer file disappears, and the entry at the cursor position (which you just added to the file) is isolated. The ADD/EDIT soft key line appears.

27) Press **F6**, the SD1 soft key, to display Speed Dialer 1.

The soft key line changes to display the names of the speed dialer entries.

Notice that by pressing F7, F8 or F9, you could have accessed any of the other three possible speed dialers.

28) Press **F1**, to add the current name and telephone number to line 1 in Speed Dialer 1. The speed dialer display disappears, and the dialer file entry is redisplayed.

29) Press **F1**, the SAVE soft key. The dialer file and DIALER soft key line are redisplayed.

30) Press **F1**, the Main soft key.

The dialer file disappears and the MAIN soft key line is redisplayed.

**9.    SPEED DIAL A CALL**

Pressing just one key accesses a speed dialer containing up to ten telephone numbers. The names associated with each number are displayed, each as a soft key label. Pressing the appropriate soft key then automatically dials the corresponding speed dialer number.

STEP

```
31) Press F6, the SD1 soft key to display speed
    dialer 1.

    The soft key label line now displays 10 labels,
    one for each of ten possible speed dialer
    entries. The name you have just designated as a
    speed dialer entry is label 1.

32) Press F1. The system automatically dials your
    call and displays the CALL ACTIVE soft key
    line.

33) Pick up the telephone receiver to converse, or
    press F1 (HANGUP) to disconnect the call
    before it is completed.

34) When the call ends, replace the receiver on
    the telephone to disconnect the call, or press
    F1 (HANGUP).

    The MAIN soft key line is redisplayed.
```

**10.    RETURNING TO DOS**

To exit from IN:TOUCH and return to DOS:

**STEP**

---

35) Press **F1** (DOS) from the MAIN soft key line.

The system asks: **Are you sure?**

36) Press **F6** (YES).

The system exits from IN:TOUCH and redisplays the DOS soft key line. You are now back in the Disk Operating System.

---

11.     SUMMARY OF CONCEPTS

In this section you have learned how to:

-       access the IN:TOUCH telephone communications
        system.
-       match the Hyperion dialing configuration to
        match the local telephone network.
-       dial a voice call,
-       redial a previous number,
-       create a dialer file entry,
-       add an entry to a speed dialer, and
-       speed dial a call.


You have also gained more experience in using  soft  key
lines  to  enter  commands,  and  have  been  introduced to the
following features:

-       **CURSOR CONTROL** of the block cursor.

-       **CURRENT  CONFIGURATION REMINDER  LINE.**   You
        always know the direction of  output  signals,
        the call type and dialing type.

-       **AUTOMATIC DIALING** from  the  keyboard/numeric
        pad,  from  the  dialer file, and from a speed
        dialer.


These are only  a  few  of  the  commands  and  features
available  in  IN:TOUCH.  Remember, there are 12 soft key lines,
each having from two to ten commands.  Pressing **Ctrl + F10** will
display the IN:TOUCH soft key map.

All commands and features  are  described  in  Part  II,
Section 6 of this user guide.

**LAST STEP**

> 37) Read Part II of this guide, then proceed to use
>     IN:TOUCH whenever you need to use the  Hyperion
>     to send  voice  or  data  across the telephone
>     network.

## Part II

## BASIC CONCEPTS

### 1.    INTRODUCTION

The IN:TOUCH system is a customized use of the  Hyperion
equipment  for  data  and  voice transmission.  As such, a user
should become familiar with certain basic  concepts,  described
in this part of the IN:TOUCH guide.

### The IN:TOUCH Package

The IN:TOUCH package comprises: the  IN:TOUCH  software,
available  on  the Master IN:TOUCH Diskette kept at the back of
the Hyperion IN:TOUCH Guide; a modem card which  your  Hyperion
dealer  can  install  into your Hyperion; and a telephone cable
with a plug-in jack at either end, so that you can connect  the
Hyperion with any telephone company outlet.

Other available options include a set of acoustic  cups,
a  keyset-switch  telephone  cable and connectors, and terminal
emulation filter files.

### Organization of this Part

Part II is organized to  describe  the  following  basic
IN:TOUCH concepts:

* How to connect your Hyperion for IN:TOUCH  and  how
  to prepare the software is described in Section 2.

* The  procedure  to  access  IN:TOUCH  from  the  disk
  operating  system  (DOS),  and to exit from IN:TOUCH
  back into DOS, is described in Section 3.

* The IN:TOUCH display screen is described in  Section
  4.

* How to  enter  IN:TOUCH  commands  is  described  in
  Section 5.

* The  soft  key  lines,  and  how  they  are  used,  is
  described in Section 6.

**Organization of this Part (cont)**

* How to move the cursor about the display screen is described in Section 7.

* The use of special keyboard keys is described in Section 8.

* The dialer file is described in Section 9.

* The differences between voice and data calls is pointed out in Section 10.
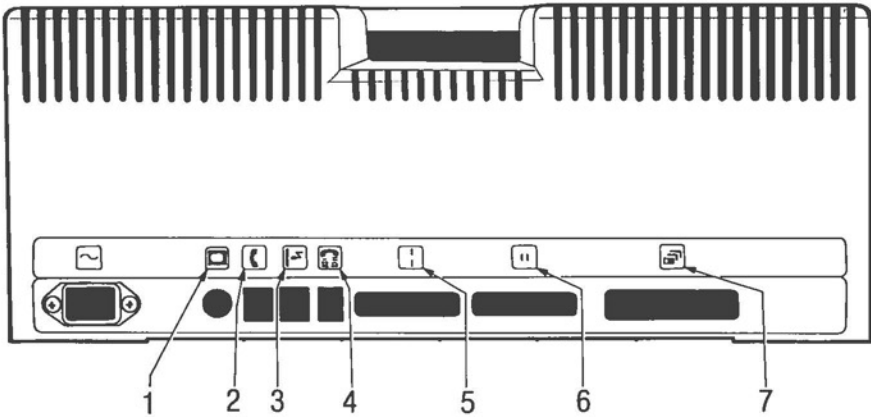


**Fig. II-1** - The Hyperion rear panel connectors.

## 2.    CONNECTING YOUR HYPERION FOR IN:TOUCH

Your Hyperion has the capability to communicate with other terminals, computers, and Hyperions. This is done by sending the data across standard telephone lines.

### If You Have Standard Telephone Wall Jacks

STEP

1) Unplug your telephone from the wall jack, and plug it into connector number 2 on the back of the Hyperion.

2) Plug one end of the supplied two-ended telephone cable into the wall jack, and plug the other end into connector number 3 at the back of the Hyperion main unit.

### If You Do Not Have Standard Wall Jacks

If you do not have standard telephone wall jacks on location, you will not be able to use the voice-call dialing capabilities of the Hyperion.

To use your telephone line to communicate with other computer devices, you will have to connect the optional acoustic cups that are available for the Hyperion. Acoustic cups are placed over the telephone handset, and the cord running from the cups is plugged into connector number 4 at the back of the Hyperion. Wait for the carrier tone, then attach one cup to the earpiece, and the other to the mouthpiece, of the handset.

### If You Have a Keyset-Switch Telephone

The "keyset-switch" telephone is an office telephone with a row of five keys below the dial. Such telephones can access up to five different lines and are connected to the local central office by a 50-wire telephone cable.

As an option, the Hyperion can be supplied with a 50-pin connector into which both the telephone connector, and the wall connector, can be plugged. This 50-pin connector is, in turn, connected to two plugs that go into the connectors numbered 2 and 3 at the back of the Hyperion main unit. One line of your keyset telephone then becomes the line used with the Hyperion. The appropriate key lights up when that line is in use.

### Connecting a Printer

When using the Hyperion as a data terminal, having it attached to a printer is a useful feature. Parallel printers are connected to connector number 6 at the back of the Hyperion. Serial printers are connected to connector number 5.

When a printer is to be used, the appropriate print filter file (filename extension PRN) must be available for loading into drive C.

### Using the Hyperion as a Data Terminal

The Hyperion can be made to ressemble one of two types of data terminals. This is done by loading the appropriate terminal emulation filter file (filename extension **EXT**). Currently, the terminals that can be emulated is the VT100. Terminal emulation filter files may be obtained from your dealer.

**Caring for Your Master IN:TOUCH Diskette.**

Your Master IN:TOUCH Diskette is kept at the back of the
Hyperion IN:TOUCH Guide. This diskette contains all the
software needed to use the IN:TOUCH system. Since this diskette
is your only source of IN:TOUCH software, you should take good
care of it.

Before using IN:TOUCH for the first time, make a copy of
the Master IN:TOUCH Diskette, and subsequently use only this
copy. If you use the Master IN:TOUCH Diskette, and it is
damaged, you will be left without a replacement.

**STEP**

```
1)  Insert the Master User Diskette (or copy)  into
    drive A.

2)  Load the Disk Operating System (DOS)  into  the
    Hyperion  as  described  in  the  Hyperion User
    Guide.

3)  Press the D-COPY soft key  (F6) on  the  DISKS
    soft key line. The system responds by prompting
    you  to load a source diskette into drive A and
    a destination diskette into drive B.

4)  Remove the  user  diskette  from  drive  A  and
    replace it with the Master IN:TOUCH Diskette.

5)  If you have a single-drive system,  press  Rtn,
    and follow the prompts.

                        OR

    If you have a double-drive system, insert a new
    diskette into drive B, and then press Rtn.

6)  The system will copy the contents of the Master
    IN:TOUCH Diskette onto the  new  diskette,  and
    then prompt you with the question:

            Copy another diskette (Y/N)?

6)  Enter N.

    The system will return you to DOS.
```

This way you will have a copy of the  Master  IN:TOUCH
Diskette.

3.    **ACCESSING IN:TOUCH FROM DOS**


STEP

---

1)  Make sure you are in DOS; that  the  main  DOS
    soft key line is displayed, and that the Master
    IN:TOUCH Diskette, or copy, is in drive A.


2)  Press the **PHONE** soft key (F6) from the DOS soft
    key line.  This enters the command  PHONE   onto
    the screen and immediately executes it.

                    <u>OR</u>

    Enter the word **PHONE** and press Rtn.

---

        NOTE: you may find it useful  to  create  a  special
diskette containing only IN:TOUCH programs. Your dialer file is
currently stored on the same diskette as the IN:TOUCH software,
and  if  other software (i.e., IN:SCRIBE, DOS) is also present,
the space available for your  dialer  file  is  correspondingly
reduced.


**Back to DOS**


        The PHONE command, described above, loads  the  IN:TOUCH
software from the master diskette (or copy) into the Hyperion's
internal  memory.   Once this is done, the screen shown in Fig.
II-2 appears.  The first IN:TOUCH soft key line, the MAIN  soft
key line, is displayed at the bottom of the screen. You are now
ready  to  dial  telephone calls, or to begin working with your
dialer file.

When you are through using IN:TOUCH, pressing the appropriate soft key returns you to DOS.

**STEP**

---

1) Press the **DOS** soft key line (F1) from the  main IN:TOUCH  soft  key line.  The prompt, **"Are you sure?"**, appears on the left  of  the  soft  key line.

2) Press the **Yes** soft key (F6) to exit to DOS.

---

Pressing the **NO** soft key, or the **Esc** key, returns you to the MAIN soft key line.

```
┌─────────────────────────────────────────────────────────────────┐
│ ┌─────────────────────────────────────────────────────────────┐ │
│ │PHONE:"              "  Modem    Voice Tone Off      00:00:00 │ │
│ └─────────────────────────────────────────────────────────────┘ │
│   Current #: __                                                  │
│   Previous #:                                                    │
│ ┌─────────────────────────────────────────────────────────────┐ │
│ │                                                             │ │
│ └─────────────────────────────────────────────────────────────┘ │
│                                                                  │
│                                                                  │
│                                                                  │
│                                                                  │
│                                                                  │
│                                                                  │
│  ┌───┐ ┌──────┐┌──────┐┌───────┐┌──────┐         ┌───┐┌───┐┌───┐┌───┐┌──────┐│
│  │DOS│ │Dialer││Srvice││LAST_#││ SPKR │ 12:10  │SD1││SD2││SD3││SD4││ HELP ││
│  └───┘ └──────┘└──────┘└───────┘└──────┘         └───┘└───┘└───┘└───┘└──────┘│
└─────────────────────────────────────────────────────────────────┘
```
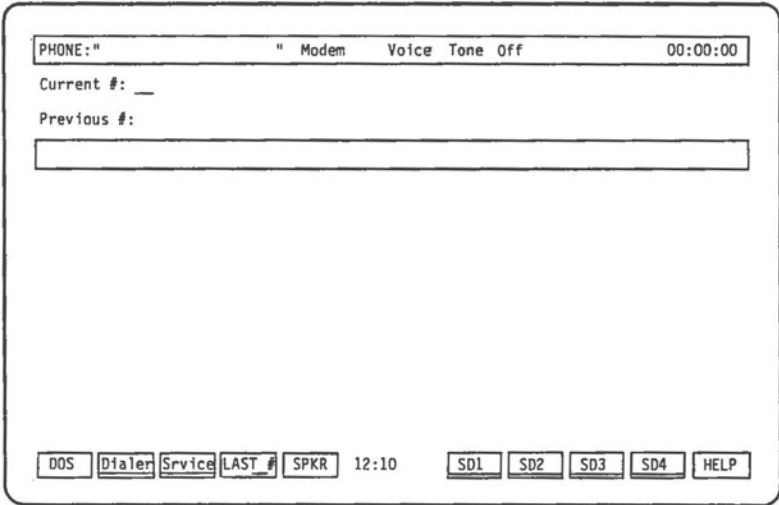
**Fig. II-2** - The IN:TOUCH display screen.

4.    THE IN:TOUCH SCREENS

**Main IN:TOUCH Screen**

        The    main    IN:TOUCH    screen    (Fig.    II-2)    displays
information pertaining to the current telephone  call,  or  the
current dialer file entry:

    *    The highlighted line at the top of the  screen
         displays:

         -  the  name  associated  with  the  telephone
            number  currently being dialed or currently
            connnected (labelled **"PHONE:"**).
         -  four    status    indicators:    the  current
            direction of the telephone  signal  (**Modem**,
            **Acoustic** coupler, or **Serial** port); the call
            type of the current telephone  call  (**Voice**
            **Manual-Data or Auto-Data**);  the  type  of
            dialing    currently    in  effect  (**Tone**  or
            **Pulse**); and the speaker volume (**Off**, **Low**,
            **Med**, **High**, or **Max**).
         -  a call duration timer.

    *    The remainder of the screen is divided into two
         portions by a shaded horizontal line.  This  is
         the search line.  When performing a dialer file
         search,  the  text  string  being  sought  is
         displayed here.

    *    Two labels are displayed above the search line:

         -  the line labelled **"Current #:"** contains  the
            number  which  is currrently being dialed or
            which is currently connected.
         -  the line labelled **"Previous #:"** contains the
            last number  dialed.

    *    From    time   to   time,   all   or   part   of   the
         information above  the  search  line  will
         disappear.  This occurs to allow extra display
         space for certain  screens  (HELP  information,
         for example). When the extra space is no longer
         required, the information above the search line
         reappears unchanged.

```
┌─────────────────────────────────────────────────────────────────────┐
│ ┌─────────────────────────────────────────────────────────────────┐ │
│ │ Edit:"                    "                                      │ │
│ └─────────────────────────────────────────────────────────────────┘ │
│                                                                       │
│                Name:  "                     "                         │
│              Number:  "                     "                         │
│         Type of Call: (Auto-Data)  Manual-Data  Voice                 │
│            Baud Rate: 110  150  [300]  600  1200  2400  4800  9600  19200 │
│               Parity: Odd  Even  (None)                               │
│            Data Bits: (7)  8                                          │
│            Stop Bits: (1)  2                                          │
│               Duplex: (Full)  Half                                    │
│    Partial Speed Send: No  (Yes)                                      │
│  Local Auto Line Feed: (No)  Yes                                      │
│         Hold Request: (None)  XOFF-13H  Single-_H  Double-_H          │
│       Resume Request: (None)  XON-11H   Single-_H  Double-_H          │
│        Abort Request: (None)  EOT-03H   Single-_H  Double-_H          │
│   Deletions:  First:  (None)  NULL-00H  Single-_H                     │
│              Second:  (None)  XOFF-13H  Single-_H                     │
│               Third:  (None)  XON-11H   Single-_H                     │
│       Host Enter Key: (CR-0DH)  LF-0AH  Single-_H                     │
│      Number of Nulls: 00                                             │
│                                                                       │
│                                                                       │
│  ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐         ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌──────┐ │
│  │ SET │ │← ←│ │→ →│ │↑↑│ │↓↓│ 12:12  │   │ │   │ │   │ │   │ │ HELP │ │
│  └─────┘ └─────┘ └─────┘ └─────┘ └─────┘         └───┘ └───┘ └───┘ └───┘ └──────┘ │
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. II-3** - The MODEM screen and soft key line, one of the specialized IN:TOUCH display screens.

*    Between the search line and the soft key  label
     line at the bottom of the  screen  is  an  area
     called the dialer "window".  Initially, this is
     blank.    However, when the DIALER soft key line
     is in use, up to 13 lines of  the  dialer  file
     are visible in this window.

*    The line of highlighted boxes at the bottom  of
     the  screen  is,  as  in DOS and IN:SCRIBE, the
     soft key line.  In IN:TOUCH, the soft key  line
     contains  dialing commands, dialer file editing
     commands,   and   block  cursor  control  keys.
     Pressing the appropriate soft key, F1  to  F10,
     immediately  executes  the command shown in the
     corresponding soft key label.   Soft  keys  are
     normally  the  only  means of entering IN:TOUCH
     commands.


**Other IN:TOUCH Screens**


        This summarizes the characteristics of the main IN:TOUCH
display screen.  There are other  IN:TOUCH  screens  which  are
specialized  for certain tasks.  These are illustrated with the
descriptions of IN:TOUCH functions which follow.

### 5.    ENTERING IN:TOUCH COMMANDS

IN:TOUCH commands are normally entered via the soft keys. You need not press **Rtn** after any command. The Rtn is included in the soft key action, and pressing the soft key immediately executed the command. No parameters are required for any of the commands.

Occasionally, the system prompts you for further action before it executes a command. This prevents accidental execution of commands which have permanent effects on your dialer file. For example, IN:TOUCH asks **"Are you sure?"** before deleting a dialer file entry. You must answer "YES", in order for the command to be carried out.

If you mistakenly execute a command which moves you to an unwanted screen and soft key line, there are two possible ways to reverse your action: pressing soft key **F1** or pressing the **Esc** key.

On many IN:TOUCH screens, soft key F1 is used to return to a specific soft key line. In fact, it is ultimately used to return to DOS.

The **Esc** key is your means of cancelling many IN:TOUCH commands or of "escaping" from the current screen and soft key line. The soft key line to which you return varies depending on the current soft key line.

When soft key F1 is labelled SAVE or SET, it may be preferable to use the Esc key to leave an unwanted screen. If you press SAVE or SET, you may save any changes you made between entering and leaving that screen. If you press the Esc key, any changes you made on that screen are ignored.

### 6.    THE SOFT KEY LINES

The soft keys are located across the top of your keyboard. These keys are not commands in themselves. Each key represents a command displayed on the soft key label line. Pressing F3, for instance, will have a different result depending on which soft key label line is currently being displayed.

Some IN:TOUCH soft key lines may vary slightly, depending on cetain conditions. On the MAIN soft key line, for example, soft key F1 is variously labelled HANGUP or DOS, depending on whether a telephone call is in progress.

When you press a soft key, the command represented by the corrresponding soft key label is executed immediately. For example, if you press the Dialer soft key on the MAIN soft key line, you immediately access the DIALER soft key line and see a display of thirteen dialer file entries.

All IN:TOUCH commands are normally entered using soft keys. Soft keys are also used for block cursor control.

If you have any questions about the commands available on a specific soft key line, use the HELP soft key. The IN:TOUCH soft key lines all contain the HELP command (soft key F10). Pressing the HELP soft key displays a screenful of information about the IN:TOUCH functions available on the current soft key line. Pressing Ctrl + HELP displays a "map" of all the soft key lines available in IN:TOUCH.

Fig. II-4 shows a soft key line as it appears on the Hyperion screeen. A quick reference to the meaning of the various IN:TOUCH soft key commands is given in Part III, Section 7.



SOFT KEY LINE
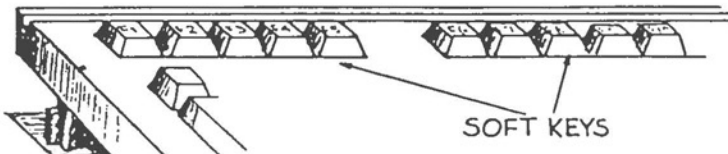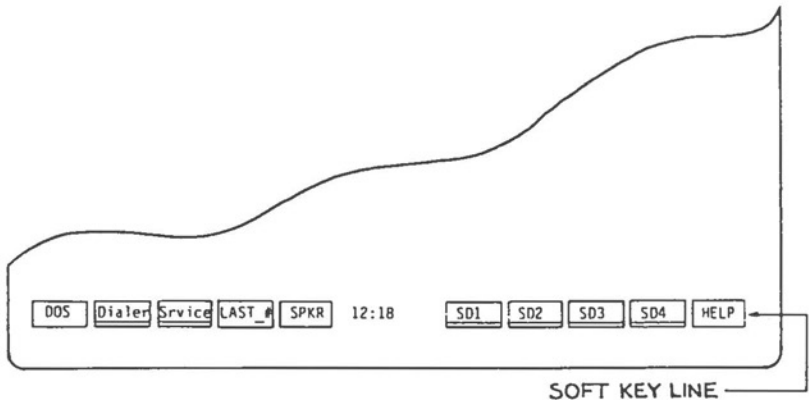


SOFT KEYS

Fig. II-4 - The IN:TOUCH soft key label line.

```
┌─────────────────────────────────────────────────────────┐
│ ┌───────────────────────────────────────────────────────┐ │
│ │PHONE:"            "  Modem   Voice Tone Off    00:00:00│ │
│ └───────────────────────────────────────────────────────┘ │
│  Current #: __                                             │
│  Previous #:                                               │
│  ┌───────────────────────────────────────────────────────┐ │
│  └───────────────────────────────────────────────────────┘ │
│      N A M E                      Number                   │
│                                                            │
│                                                            │
│    ┌─────────────────────────┐                            │
│    │ S m i t h ,   J o h n    │    555-1234               │
│    └─────────────────────────┘                            │
│                                                            │
│                                                            │
│  ┌────┐┌──────┐┌────┐┌─────┐┌─────┐        ┌───┐┌───┐┌───┐┌───┐┌────┐ │
│  │SAVE││DELETE││Data││← ←  ││→ →  │ 12:15  │SD1││SD2││SD3││SD4││HELP│ │
│  └────┘└──────┘└────┘└─────┘└─────┘        └───┘└───┘└───┘└───┘└────┘ │
└─────────────────────────────────────────────────────────┘
```

**Fig. II-5** - The IN:TOUCH block cursor, with the
editing cursor inside.

## 7.    MOVING THE CURSOR ABOUT THE SCREEN

A cursor is a long or short bar of highlighting that is used to direct attention to a certain portion of the Hyperion screen. In IN:TOUCH, there are two cursors. The block cursor is a long horizontal bar which can be moved either through the dialer file, selecting entries for dialing or editing, or through a parameter table, selecting values.

Within the block cursor, a short flashing bar indicates the position of the editing cursor. The editing cursor is your reference point for adding new characters or modifying existing characters within the block cursor.

### The Block Cursor

The block cursor is normally controlled by the soft keys, or the **Tab** key. Whenever you reach an IN:TOUCH screen which uses block cursor movement, the soft key line will include cursor control keys. Pressing the appropriately labelled soft key moves the block cursor in the required direction.

### The Editing Cursor

The editing cursor is moved using the cursor-number keypad at the right of the keyboard, as described in the Hyperion User Guide. Ensure that the keypad is set to cursor control by pressing the **Num Lock** key until the octothorpe (#) disappears from the center of the soft key label line.

Because the editing cursor normally moves within the block cursor, the cursor-number keypad operates in a slightly different manner than that described in the Hyperion User Guide. The differences are noted in Tables II-A and II-B on the following pages.

NEXT FIELD

```
Hold Request:   (None) XOFF-13H  Single-__H  Double-__H
Resume Request: (None) [XON-11H]  Single-__H  Double-__H
Abort Request:  (None) EOT-03H   Single-__H  Double-__H
```

PREVIOUS FIELD

```
          Hold Request:   (None) XOFF-13H  Single-__H  Double-__H
PREVIOUS
  LINE    Resume Request: (None) [XON-11H]  Single-__H  Double-__H     NEXT
                                                                       LINE
          Abort Request:  (None) EOT-03H   Single-__H  Double-__H
```
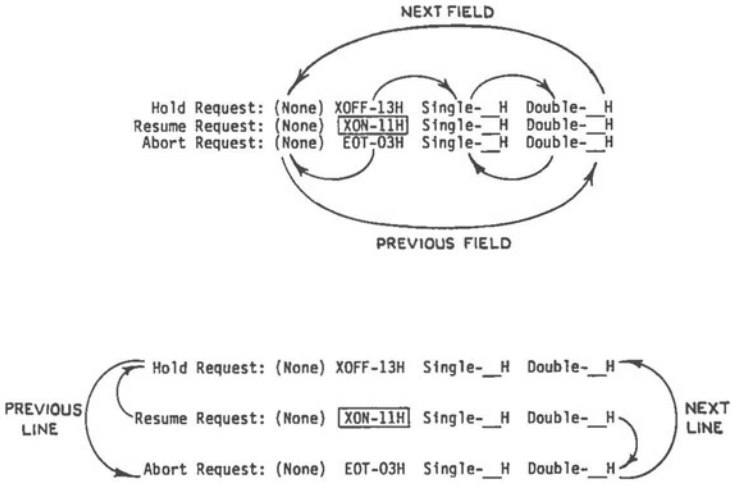
**Fig. II-6** - Block cursor movement.

### Table II-A
### BLOCK CURSOR CONTROL

```
---------------------------------------------------------------
KEY                                    FUNCTION
---------------------------------------------------------------
```

USING SOFT KEYS

→→          (Next Field) Move the block to the  next  field  on
            the  current  line.   If the block cursor is at the
            right-most field, it moves to the  left-most  field
            on the current line.

←←          (Previous Field) Move  the  block  cursor  to  the
            previous  field  on  the curent line.  If the block
            cursor is at the left-most field, it moves  to  the
            right-most field on the current line.

↑↑          (Previous line)

            In a table: Move the block cursor to  the  previous
            line.    If  the  cursor  is  at the top line on the
            screen, it moves to the botttom line.

            In the dialer file: Move the previous dialer  entry
            down to the block cursor.

↓↓          (Next Line)

            In a table: Move the block cursor to the next line.
            If the cursor is at the bottoim line on the screen,
            it moves to the top line.

            In the dialer file: Move the next dialer  entry  up
            to the block cursor.

```
---------------------------------------------------------------
```

Table II-A (cont)
BLOCK CURSOR CONTROL

------------------------------------------------------------------
KEY                                    FUNCTION
------------------------------------------------------------------

USING THE CURSOR-NUMBER KEYPAD

→        If the editing cursor is not in use (i.e., does not
         appear on the Hyperion screen), this key may be
         used as an alternative to the →→ soft key.

←        If the editing cursor is not in use (i.e., does not
         appear on the Hyperion screeen), this key may be
         used as an alternative to the ←← soft key.

↑        (Previous Line) This key may be used as an
         alternative to the ↑↑ soft key.

↓        (Next Line) This key may be used as an alternative
         to the ↓↓ soft key.


USING OTHER KEYBOARD KEYS

Space Bar  If the editing cursor is not in use (i.e., does not
           appear on the Hyperion screen) , this key may be
           used as an alternative to the →→ soft key.

Rub Out    If the editing cursor is not in use (i.e., does not
           apppear on the Hyperion screen), this key may be
           used as an alternative to the ←← soft key.

Tab        When adding or modifying a dialer entry, this key
           may be used as an alternative to the →→ soft
           key.

           When working in a table, this key may be used as an
           alternative to the ↓↓ soft key.

------------------------------------------------------------------

Table II-B
EDITING CURSOR CONTROL

```
-------------------------------------------------------------------
KEY                             FUNCTION
-------------------------------------------------------------------
```

USING THE CURSOR-NUMBER KEYPAD

→           (Next Character) Move the editing cursor to the
            next character position in the block cursor. If
            the editing cursor is at the right-most character
            position, it moves to the left-most character
            position.

←           (Previous Character) Move the editing cursor to the
            previous character in the block cursor. If the
            editing cursor is at the left-most character
            position, it moves to the right-most character
            position.

**Home**    (Front of Block Cursor) Move the editing cursor to
            the left most character position in the block
            cursor.

**End**     (Delete to end of Block Cursor) Delete all
            characters from the current editng cursor position
            to the end of the block cursor. **Note that this
            function is completely different from that
            performed by the same key in IN:SCRIBE.**

**Del**     (Delete Character) Delete the character at the
            current editing cursor position, pulling all
            subsequent characters within the block cursor to
            the left.

**Ins**     (Insert Space) Insert a space at the current
            editing cursor position, pushing all subsequent
            characters within the block cursor to the right. If
            all character positions are full, pressing this key
            has no effect.

```
-------------------------------------------------------------------
```
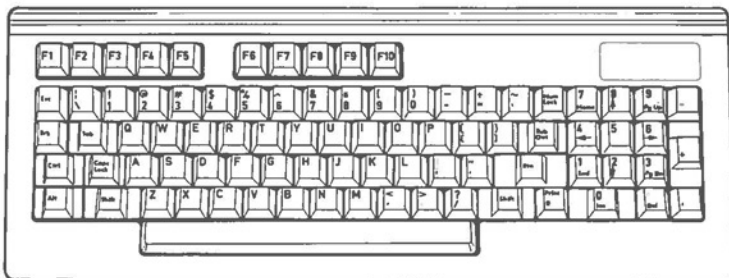
**Fig. II-7 -** The Hyperion keyboard, showing the special keys.

## 8.    SPECIAL KEYS USED IN IN:TOUCH

The Hyperion keyboard is your means of inputting  dialer entries.   The  special  keys  (shown  in  Fig.  II-7) enter the commands which modify or dial those entries.   Some special keys enhance and/or alter the functions of other keys.

The special keys are gathered in three  groups:  to  the left,  to  the right, and above the alphanumeric section of the keyboard.

### Table II-C
### SPECIAL KEYBOARD KEYS

-----------------------------------------------------------------
KEY                             FUNCTION
-----------------------------------------------------------------

ABOVE THE ALPHANUMERIC KEYBOARD

**F1 to F10**    (The Soft Keys) These keys are  normally  the  only
                 means of  entering IN:TOUCH commands.  The command
                 performed  depends  on  the  soft  key  label  line
                 displayed  at the bottom of the screen.  To enter a
                 command, press the soft key  which  corresponds  to
                 the  appropriate  label.   Entering  a  command may
                 cause a dialing or editing operation to take place,
                 and/or  a  new  set  of  soft  key  labels  to  be
                 displayed.

LEFT-HAND SPECIAL KEYS

**Esc**          (Cancel) This key cancels the  current  screen,  as
                 well  as any editing operation that is in progress,
                 and returns to a previous screen and soft key line.
                 Esc would typically be used to  leave  a  soft  key
                 line  without  performing  the action for which the
                 line was originally acccessed.

**Ctrl +**       (Cancel Find) Pressing these  keys  simultaneously
  **Brk**         cancels  the  dialer  file  search  currently   in
                 progress.

**Tab**          (Cursor Control)  This  key  may  be  used  as  an
                 alternative  cursor  control  key.

-----------------------------------------------------------------

Table II-C (cont)
SPECIAL KEYBOARD KEYS

-------------------------------------------------------------------
KEY                                 FUNCTION
-------------------------------------------------------------------

**Cap Lock**      Cap(itals) Lock is used to switch the alphabetic
                 keys on the keyboard between upper and lower case.
                 It is analogous to the shift lock key found on most
                 typewriters, but has been renamed because only
                 alphabetic characters are affected. The punctuation
                 and numeric keys are not affected. When **Cap Lock** is
                 in effect, an upwards arrow appears to the right of
                 the time display in the middlle of the soft key
                 line.

**Shift**         This key enters the shifted value for any other
                 key. When the keyboard is in normal (lower case)
                 mode, holding the **Shift** key while presssing an
                 alphabetic character enters the upper case value
                 for that character. When the **Cap Lock** key has been
                 used to force upper case operation, holding the
                 **Shift** key while pressing an alphabetic character
                 enters the lower case value.

                 The **Shift** key has a similar effect on the numeric
                 keypad in the presence and absence of a Num(erals)
                 Lock, shifting between the digits and cursor
                 control.

RIGHT-HAND SPECIAL KEYS

**Num Lock**      Num(erals) Lock is used to switch the numeric
                 keypad between numeric output and editing cursor
                 control. It has no effect on the alphabetic portion
                 of the keyboard. When **Num Lock** is in effect, an
                 octothorpe (#) appears to the right of the time
                 display in the middle of the soft key label line.

                 When **Num Lock** is on, editing cursor control can be
                 achieved by using the **Shift** key in conjunction with
                 the numeric keypad.

-------------------------------------------------------------------
                                                        ...continued

Table II-C (cont)
SPECIAL KEYBOARD KEYS

---

| KEY | FUNCTION |
|-----|----------|

---

**Rub Out**    This key backspaces over and erase the characters
directly to the left of the editing cursor. If the
editing cursor is at the left-most position,
striking this key has no effect.

(Cursor Control) If the editing cursor is not in
use (i.e., does not appear on the Hyperion screen),
this key may be used as an alternative block cursor
control key.

**Rtn**        The **Rtn** soft key may be used as an alternative to
the FIND soft key from the DIALER soft key line.

**Print**      This key enters an asterisk when used in IN:TOUCH.
**\***

---

9.      THE DIALER FILE

        The dialer file holds the telephone  numbers  and  names
which  make  up your personal telephone directory.  An IN:TOUCH
diskette may have only one dialer file, but  this  dialer  file
may hold as many entries as will fit onto the diskette.

        IN:TOUCH enables you to add, edit, or delete entries  in
the    dialer file.  Also, you may have the system automatically
dial out any  dialer  file  telephone  number,  including  data
numbers and sign-on code sequences.

10.     DIFFERENT WAYS OF PLACING A CALL

        Using the Hyperion expands the number of  ways  you  can
place  a  call,  as  well as enables you to use the Hyperion to
transmit data calls.

        *       You can lift up your handset and dial the call from
                the telephone, as you would without a Hyperion.

        *       You can lift  the  handset  and  use  the  Hyperion
                number keypad to dial the call.

        *       You can highlight a telephone number entry  in  the
                dialer file, and press the SPKR soft key.  The call
                is then autoamtically dialed out.

        *       You can store any of 40 different numbers in "speed
                dialers".  Entries  stored  in  speed  dialers  are
                displayed as soft key labels, and can be dialed out
                by pressing the appropriate soft key.

Data Calls

        Both data and voice calls can be made in any of the four
ways.  Data calls, however, require  the  entry  of  additional
information to make sure that the data is transmitted in a form
that  the  destination  device  recognizes.   These  data  call
parameters, as this  information  is  called,  can  be  entered
before  the call is placed, after the call is placed, or can be
stored separately for each data call number in the dialer  file
or speed dialers.

## 11.    THE DIFFERENCE BETWEEN VOICE AND DATA CALLS

During a voice call, you lift the telephone receiver and converse with whomever you have dialed. During a data call, the Hyperion is "conversing" with a remote device. The nature of the signals (data) being exchanged by the machines demands special handling.

The telephone receiver should not be lifted during a data call. Lifting the receiver causes noise which interferes with the signals being exchanged. You do, however, hear the data call as it is being dialed and answered - via the Hyperion speaker.

Once a carrier tone (high-pitched whistle) is detected, the speaker is automatically turned off. The IN:TOUCH screen displays the first of a series of soft key lines used for data call management. There is no reason to audibly monitor the data signal.

Communication between the Hyperion and a remote device requires the use of a modem (modulator demodulator) to manage the signals being exchanged. The Hyperion has a built-in modem which can be set to handle the signal characteristics of almost any data service or device. External signal lines may be connected directly to the Hyperion or through (optional) accoustic cups.

The steps involved in dialing and managing a data call depend heavily on the nature of the remote device. For complete details on how to use IN:TOUCH for your data communications requirements, consult Part III, Section 6.

## Part III

### USING IN:TOUCH

### 1.    INTRODUCTION

This part describes how to use all aspects of the IN:TOUCH communications system in detail.

IN:TOUCH is an application-oriented system, rather than a software "language". Rather than having a series of command words used individually to enter instructions, IN:TOUCH has a series of definite uses. This part describes each use, also called an application, in the following way:

*   Configuring IN:TOUCH to match both your requirements and those for the local telephone system to which it is connected, is described in Section 2.

*   The dialer file and its maintenance is described in Section 3.

*   How to dial a number is described in Section 4.

*   Section 5 shows how to use the speed dialer.

*   Section 6 describes data calls, how to set them up, how to dial them, how to terminate them, and gives details about using the Hyperion as a data terminal.

*   Section 7 is a quick reference on the IN:TOUCH soft key lines and their purposes.

Part III


Section 2

**INITIAL CONFIGURATIONS**

```
┌──────────────────────────────────────────────────────────────────────────┐
│                                                                            │
│  ┌─────────────────────────────────────────────────────────────────────┐  │
│  │ PHONE:"                    "  Serial   Voice  Tone  Off     00:00:00 │  │
│  │ Current #: __                                                        │  │
│  │ Previous #:                                                          │  │
│  │ ┌─────────────────────────────────────────────────────────────────┐ │  │
│  │ └─────────────────────────────────────────────────────────────────┘ │  │
│  │    Default Dialing Type: ┌────┐ Pulse                               │  │
│  │                          │Tone│                                     │  │
│  │            Data Direction: Modem (Serial)  Acoustic                 │  │
│  │   Dialing Short Form 'A':  "           "                            │  │
│  │   Dialing Short Form 'B':  "           "                            │  │
│  │   Dialing Short Form 'C':  "           "                            │  │
│  │   Seconds Pause For '+':   1                                         │  │
│  │     External Phone Type: (Standard)  Keyset                         │  │
│  │                                                                     │  │
│  │                                                                     │  │
│  │ ┌────┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐         ┌──┐ ┌──┐ ┌──┐ ┌──┐   ┌────┐     │  │
│  │ │SAVE│ │←←│ │→→│ │↑↑│ │↓↓│12:19    │  │ │  │ │  │ │  │   │HELP│     │  │
│  │ └────┘ └──┘ └──┘ └──┘ └──┘         └──┘ └──┘ └──┘ └──┘   └────┘     │  │
│  └─────────────────────────────────────────────────────────────────────┘  │
│                                                                            │
└──────────────────────────────────────────────────────────────────────────┘
```

**Fig. III-1** - The IN:TOUCH configuration table and
           CONFIGURATION soft key line.

## Section 2

### INITIAL CONFIGURATIONS

#### 2.1    MATCHING THE TELEPHONE NETWORK

Before you begin placing calls using IN:TOUCH, you  must
ensure  that  the  Hyperion  configuration  matches that of the
telephone you are working from.

In the highlighted bar at the top of the IN:TOUCH screen
four words appear.  The words are  reminders  of  your  current
Hyperion configuration.

The first word is one of **Modem, Serial, Acoustic**;  the
second  word  is either **Data** or **Voice**; the third word is either
**Pulse** or **Tone**.  The fourth word refers to the level of  speaker
volume - **Off, Low, Med, High, Max**.  Initially, these are set to
read: Serial, Voice, Tone, Off.

To  set,  or reset,  these  and  other  configuration
parameters:

**STEP**

| |
|---|
| 1)    Access  the  IN:TOUCH  screen  and  the  MAIN IN:TOUCH soft key line. |
| 2)    Press **F3**, the <u>Srvice</u> soft key  to  access  the SERVICE soft key <u>line</u>. |
| 3)    Press **F8**, the CONFIG soft key. |

The IN:TOUCH configuration table (Fig. III-1) appears on
the screen, with a block cursor (bar of  highlighting)  located
on  the  first  line.  Notice that the associated soft key line
(CONFIGURATION soft key line) contains four  labels  consisting
of double arrows. The corresponding soft keys control the block
cursor,  moving it in the directions indicated: left, right, up
and down.

**STEP** (cont)

3) Using the cursor control soft keys, move the highlight left and right, up and down, selecting each item (the purposes are described in Table III-A).

   Moving the cursor to another line in the configuration table sets the most recently highlighted item on the previous line. The system encloses this item in parentheses as shown in Fig. III-2.

4) When all the items have been selected, Press **F1**, the SAVE soft key.

5) Press **F1**, the Main soft key.

You are now back to the main IN:TOUCH screen. If you changed the dialing type (Pulse or Tone), notice that the third word at the top of the screen has also been changed accordingly.

Table III-A
CONFIGURATION PARAMETER SETTINGS

---

| PARAMETER | MEANING |
| --- | --- |

---

| **Default Dialing Type** | (Tone) for DIGITONE-type telsets;<br>(Pulse) for regular pulse telsets. |
| **Data Direction** | (Modem) if data is being tranferred<br>    through a modem connected to<br>    the Hyperion;<br>(Serial) if the data is being sent via<br>    the serial port at the back of<br>    the Hyperion.<br>(Acoustic) if the data is being sent<br>    through a telephone line.<br><br>This parameter concerns data communica-<br>tion only (see Part III, Section 6) |
| **Dialing Short Form** | Enter the sequence of numbers that A,<br>B, and C are to represent. These are<br>usually exchange or area codes that<br>repeat themselves. |
| **Seconds Pause For '+'** | Enter the number of seconds pause that<br>the plus sign (+) is to represent. |
| **External Phone Type** | (Standard) if the telset is standard;<br>(Keyset) if the telset is a keyset. |

---

## 2.2    ADJUSTING THE HYPERION SPEAKER VOLUME

The Hyperion speaker is used to monitor dialing and ringing. It is turned on automatically whenever the system begins dialing a call, and is turned off automatically once the telephone receiver is lifted.

Whenever the speaker is in operation, you may adjust its volume.

**STEP**

1) Access the MAIN soft key line.

2) Press the **SPKR** soft key (**F5**). You will now hear a dial tone.

   Note that the **F5** soft key label has changed. It now reads **VOLUME**.

3) Press the **VOLUME** soft key.

Each time the **VOLUME** soft key is struck, the speaker volume is slightly increased in the increments: **Off, Low, Med, High,** and **Max**. The appropriate label appears in the top highlighted line of the IN:TOUCH screen.

When the volume has reached its loudest point, pressing the **VOLUME** soft key once more turns the speaker off. Pressing the volume speaker again will recommence the volume cycle (Low, Med, High, Max).

**STEP**

4) When the desired dial tone volume has been reached, press **F1** (HANGUP). This redisplays the MAIN soft key line.

Speaker volume may be adjusted at any time by pressing the VOLUME soft key. The VOLUME soft key appears each time a call is in progress.

## 2.3    TIMING THE CALL

        The call timer is displayed at the top right-hand corner of the Hyperion screen. This clock restarts timing from zero whenever you begin dialing a call. It stops timing when the call is terminated (HANGUP) The last recorded elapsed time is displayed until you begin dialing another call.

        The call timer is useful for timing long distance calls, or time on a data service. However, long distance charges do not include dialing and ringing time. If you wish to eliminate dialing and ringing time from the elapsed time recorded for any call, you may do so from the MAIN/DIALER SERVICE soft key line.

**STEP**

> 1)   Press the **Srvice** soft key from either the MAIN or DIALER soft key line.
>
> 2)   Press the **TIMSET** soft key. This immediately resets the call timer to zero.
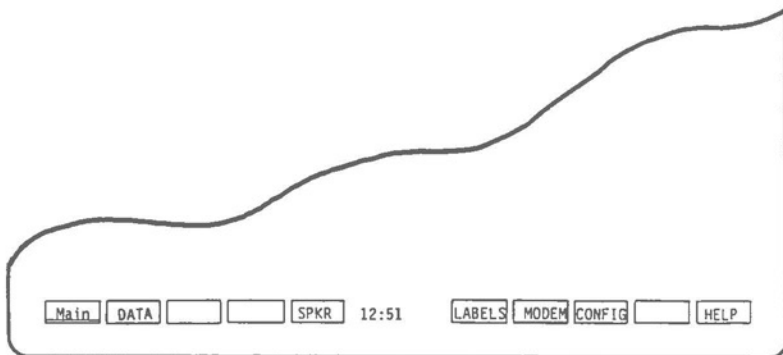


Fig. III-2 - The SERVICE soft key line.

Part III


Section 3

**MAINTAINING THE DIALER FILE**

```
┌──────────────────────────────────────────────────────────────────────┐
│ PHONE:"                    "  Modem    Voice  Tone  Off        00:00:00 │
│ Current #: __                                                          │
│ Previous #:                                                            │
│ ┌──────────────────────────────────────────────────────────────────┐  │
│ │ Search "                                    "                     │  │
│ └──────────────────────────────────────────────────────────────────┘  │
│   N A M E                            Number                            │
│   R y a n ,   T h e r e s a          555-1111                         │
│   S m i t h ,   J o h n              555-1234                         │
│   S m i t h s o n ,   E r i c        555-2222                         │
│   S m y t h e ,   J o a n n a        555-3333                         │
│   T h o m p s o n ,   S t e p h e n  555-4444                         │
│   V a n D o o r n ,   M i c h a e l  555-5555                         │
│  ┌─────────────────────────────┐     555-6666                         │
│  │ A b r a m s o n ,   G e o f f │    555-7777                         │
│   A d a m s ,   G e o r g e          555-8888                         │
│   B r o w n ,   G a i l              555-9999                         │
│   C a r s o n ,   K a t h r y n      555-0000                         │
│   D e v l i n ,   R o n              555-1122                         │
│   E g a n ,   L i n d a              555-1133                         │
│   F i s h e r ,   L e s l i e                                         │
│ [Main][FIND][Srvice][START][SPKR] 12:17  [↓↓] [↑↑] [Edit][Add][HELP]  │
└──────────────────────────────────────────────────────────────────────┘
```

**Fig. III-3** - The DIALER soft key line, with the dialer file displayed.

## Section 3

### MAINTAINING THE DIALER FILE

IN:TOUCH allows you to create a personal telephone directory, called a dialer file, in which you can store telephone numbers (and, for data calls, their associated parameters) for reference and automatic dialing. Each name and telephone number you place in your dialer file is called an entry.

An IN:TOUCH diskette may contain only one dialer file. The dialer file holds as many entries as will fit onto the diskette. Typically, a diskette which contains only IN:TOUCH can hold approximately 3,000 dialer file entries.

### 3.1    ACCESSING THE DIALER FILE

STEP

| |
|---|
| 1)   Press the **Dialer** soft key. |
| This key is available from the MAIN soft key line (**F2**) or SERVICE soft key line (**F1**). |

Pressing the **Dialer** soft key accesses the DIALER soft key line, and displays 13 of your dialer file entries (see Fig. III-3). The first time you access your dialer file during an IN:TOUCH session, the block cursor appears at the first (alphabetical) entry in the dialer. Thereafter, when you return to the dialer, the block cursor reappears at its previous position.

Adams, John    638-7488
Burns, Jean    836-3043
Cyr, André    592-9702
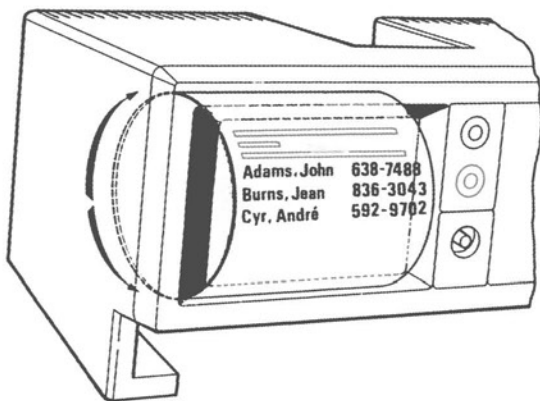
Fig. III-4 - Your dialer file may be thought of as resembling a large "wheel".

## 3.2    DIALER FILE ORDER

For your convenience, the Hyperion maintains and displays your dialer entries in alphabetical order. Whenever you add a new entry, it is automatically sorted, by name, into its alphabetical position within the dialer file. The entry "John Smith", for example, would be sorted into the "J" section. In order to be sorted into the "S" section, the entry should read "Smith, John".

As a rule, entries beginning with blanks precede entries beginning with digits; and entries beginning with digits precede entries beginning with letters. Digits appear in numerical order (0-9) and letters appear in alphabetical order (A-Z).

Your dialer file may be thought of as resembling a large wheel, rather like the rotary card indexes used in some offices. Each dialer file entry is placed in its correct alphabetical position on the circumference of the "wheel", and a small portion of the circumference (13 entries) is viewed through the dialer "window". (See Fig. III-4.)

When you are looking through your dialer file, it is as if you are "turning the wheel", moving a new portion of the circumference around to the dialer window. The block cursor remains stationary at the centre of the dialer window, highlighting whichever entry happens to appear there.

The "wheel" is exactly as large as the number of entries your dialer file contains. If you should move past the last (alphabetical) entry in the file, you immediately begin again at the first (alphabetical) entry.

## 3.3    NUMBERS AND SYMBOLS USED IN THE DIALER FILE

Because the telephone numbers in  your  dialer  file  are
meant to be dialed automatically, IN:TOUCH provides a number of
special symbols for handling typical dialing situations.  These
symbols are described in the following table.

### Table III-B
### NUMBERS AND SYMBOLS USED IN THE DIALER FILE

---

| SYMBOL | FUNCTION |
|---|---|

---

| | |
|---|---|
| 0 to 9 | The digits of the telephone number. |
| –<br>(<br>)<br>blank | The  standard  symbols  used  to  break  a  telephone number  into manageable  groups  -  for example, area code,  exchange,  number:  (613) 555-1234.  These symbols have  no  effect  on  the  IN:TOUCH  automatic dialing feature. |
| + | Pause symbol.  This causes a pause of  one second  or longer during automatic dialing.  For  example,  this symbol would be used when dialing out  from  a  PABX: 9+555-1234.  The  length of  the pause is  set  using the configuration table (Table III-A).  More than one pause may be entered in a telephone number. |
| , (comma) | Wait symbol.  This causes  an indefinite  pause  when operator  confirmation is required before dialing can continue.  When  confirmation  is  received, pressing any key resumes automatic dialing. |
| #<br>* | Standard  Bell  codes,  equivalent  to  pressing  the octothorpe (#)  or asterisk (*)  keys  on a telephone with a numeric keypad. |
| T<br>P | Symbols for tone (T) or pulse (P) dialing. If neither of these  characters  are  used,  IN:TOUCH  uses  the dialing  type  specified  in  the configuration table (Table III-A). If one of these characters (T or P) is used, then the new dialing  type  remains  in  effect until explicitly changed. |

---

### Table III-B (cont)
### NUMBERS AND SYMBOLS USED IN THE DIALER FILE

```
-----------------------------------------------------------------
SYMBOL                              FUNCTION
-----------------------------------------------------------------
```

| | |
|---|---|
| A<br>B<br>C | Dialing abbreviations. Each abbreviation may be defined as representing up to ten dialing characters. Once set in the configuration table (Table III-A), the abbreviation may then be used to represent the character sequence in any dialer entry. For example, if A is defined as "9+1+(416)", then "A 555-1234" is dialed as if it were written "9+1+(416) 555-1234". |
| ; | End of telephone number. The number field of each dialer entry may contain comments in addition to the actual telephone number. The semi-colon is used to signal the end of the telephone number and the beginning of the comment. IN:TOUCH will dial only those characters preceding the semi-colon - for example, in the entry "9+555-1234; extension 987", IN:TOUCH stops dialing at the "4". |

```
-----------------------------------------------------------------
```

**Example of How Symbols Are Used**

Assume that:

a)  **A**   is defined as "9+";
b)  **B**   is defined as "P123456++" (i.e., an account code);
c)  **+**   is defined as a pause of one second;

and, the current, default dialing type is **"Tone"**.

Then, the telephone number "A 555-9988,B T(514) 555-1234" causes the system to:

1)  dial "9" using tones, then pause one second;
2)  dial "555-9988" using tones, then pause until any key is struck;
3)  dial "123456" using pulses, then pause two seconds;
4)  and finally, dial "(514) 555-1234" using tones.

```
┌─────────────────────────────────────────────────────────────────────┐
│ ┌─────────────────────────────────────────────────────────────────┐ │
│ │PHONE:"                    "  Modem    Voice  Tone  Off    00:00:00│ │
│ └─────────────────────────────────────────────────────────────────┘ │
│  Current #: __                                                        │
│                                                                       │
│  Previous #:                                                          │
│ ┌─────────────────────────────────────────────────────────────────┐ │
│ │Search: "S m i t h                        "                        │ │
│ └─────────────────────────────────────────────────────────────────┘ │
│    N A M E                              Number                        │
│                                                                       │
│    A b r a m s o n ,   G e o f f        555-6666                      │
│    A d a m s ,   G e o r g e            555-7777                      │
│    B r o w n ,   G a i l                555-8888                      │
│    C a r s o n ,   K a t h r y n        555-9999                      │
│    D e v l i n ,   R o n                555-0000                      │
│    E g a n ,   L i n d a                555-1122                      │
│   ┌─────────────────────────────────┐   555-1133                     │
│   │F i s h e r ,   L e s l i e       │   555-1144                     │
│   └─────────────────────────────────┘   555-1155                     │
│    G r a h a m ,   A r n i e            555-1166                      │
│    H o u g h t o n ,   D a v i d        555-1177                      │
│    I n g r a m ,   S h i r l e y        555-1188                      │
│    J a c k s o n ,   R o b              555-1199                      │
│    K e e l e r ,   A n g e l a                                        │
│    L o w e ,   B a r b a r a                                          │
│ ┌────┐┌────┐┌─────┐┌─────┐┌────┐      ┌──┐ ┌──┐ ┌────┐┌───┐┌────┐    │
│ │Main││FIND││Srvice││START││SPKR│ 12:24│↑↑│ │↓↓│ │Edit││Add││HELP│   │
│ └────┘└────┘└─────┘└─────┘└────┘      └──┘ └──┘ └────┘└───┘└────┘    │
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. III-5** - Enter a search phrase on the search line to
               locate a specific dialer file entry.

## 3.4    VISIBLE AND INVISIBLE PARTS OF A DIALER FILE ENTRY

Each entry in the dialer file is made up of two parts: a "visible" portion, and an "invisible" portion. The visible portion of an entry is the name and telephone number. This is the portion displayed in the dialer window whenever the dialer file is accessed. The invisible portion of an entry is a table of modem parameters the Hyperion needs to know in order to place a data call to that entry. This information is displayed only on request, either when a new data telephone number is being entered, or when an existing data telephone number is being edited. See Section 6 for a full description of modem parameters.

## 3.5    LOCATING A DIALER FILE ENTRY

There are two ways to locate an entry in the dialer file: using the soft keys to scroll through the dialer, or using the search line and the FIND soft key.

Two soft keys on the DIALER soft key label line are marked with cursor control symbols ( ⬆ and ⬇ ). Pressing these keys causes the dialer entries to scroll up or down past the block cursor in the centre of the dialer window. Pressing the START soft key causes the first (alphabetical) entry to be re-positioned at the block cursor.

STEP

| |
|---|
| 1)  Press either the ⬆ or ⬇ soft key, until the dialer file entry you seek is positioned at the block cursor. |

Whenever the DIALER soft key line is in use, the label "Search:" appears on the left of the search line, together with a flashing editing cursor. To "search" for a dialer file entry, use the keyboard to type all, or part, of the entry name you are seeking. This search phrase is displayed on the search line.

STEP

| |
|---|
| 2)  Type the name of the entry you are seeking. |
| 3)  Press F2 (FIND), or press Rtn. |

Pressing the **FIND** soft key (or the **Rtn** key) locates the first dialer file entry which begins with the specified phrase, and positions that entry at the block cursor. Note that the beginning of the entry must <u>exactly</u> match the search phrase. For example, the search phrase "Smith" would match either "Smith, John" or "Smithson, Eric". However, the search phrase "Smith," would match only "Smith, John".

If you don't know the exact spelling of the name in the entry you wish to locate, you may perform a "wildcard" search. In a wildcard search, the wildcard symbol (*) must be used as the first character of the search phrase - for example, "*Smith". In this case, the wildcard symbol does not represent any particular number of characters; it simply directs the system to find the search phrase wherever it may appear in an entry name. The search phrase "*Smith", for example, would match either "Smith, John" or "John Smith".

Because wildcard searches must check every character of every entry name in looking for a match, they take considerably longer to complete than a regular search. Should you wish to stop any search that is in progress, press **Ctrl + Brk**.

Instead of a wildcard search, you may find it useful to use a regular search even if you are not sure of the spelling of the name. If there is no entry matching your search phrase, the entry which is alphabetically closest to your search phrase is moved to the block cursor. This places you near to where the required entry should appear in your dialer file. At this point, you can use the block cursor control keys to scroll through the dialer file looking for the required entry.

The system locates a matching entry no matter where the block cursor is initially located. If the block cursor is already positioned part way through your dialer file, the system begins the search from the current cursor position. If the system can find no match for your search string between the current cursor position and the end of the file, it continues to search from the start of the file, returning to the current cursor position.

Once the block cursor is positioned at the required entry, you may dial or modify that entry. (See Section 4 for a description of the dialing procedure.)

## 3.6    ADDING A DIALER FILE ENTRY

Pressing the **Add** soft key from the DIALER soft key line accesses the ADD/EDIT soft key line (Fig. III-6). This soft key line is used not only to modify dialer file entries, but also to add new entries to your dialer file.

When the **Add** soft key is pressed, you are presented with a blank entry into which to type the name and telephone number. The block cursor is initially positioned at the name field.

STEP

---

1)    Press **F2**, the **Dialer** soft key to display your current dialer file.

2)    With the block cursor in any  position,  press the **Add** soft key from  the DIALER soft key line.

3)    Type the **name** for the new entry.

4)    Press the ⟶⟶ soft key  to  move  the  block cursor to the  number  field,  and  type  the telephone number.

---

Although the new entry appears on the  Hyperion  screen, it is not yet a part of your dialer file.

STEP

---

5)    Press the **SAVE** soft key to finalize the entry.

OR

Press **Esc** to exit without adding  anything  to your dialer file.

---

Pressing the **SAVE**  soft  key  completes  the  action  of ADDing  the  entry to the dialer file.  You are returned to the DIALER soft key line, where the block cursor is  positioned  at the new entry.

To leave the ADD/EDIT soft key line without  ADDing  the entry  to  your  dialer  file, press the **Esc** soft key.  You are returned to the DIALER soft key line, but  the  new  entry  has been  cancelled, and the block cursor reappears in its previous position.

```
┌─────────────────────────────────────────────────────────────┐
│  ┌──────────────────────────────────────────────────────────┐ │
│  │PHONE:"              "  Modem   Voice Tone  Off    00:00:00│ │
│  Current #: __                                                │
│  Previous #:                                                  │
│  ┌──────────────────────────────────────────────────────────┐ │
│  └──────────────────────────────────────────────────────────┘ │
│      N A M E                        Number                    │
│                                                               │
│                                                               │
│      ┌───────────────────────────┐                           │
│      │ F i s h e r ,   L e s l i e │      555-1133            │
│      └───────────────────────────┘                           │
│                                                               │
│                                                               │
│  ┌────┐┌──────┐┌────┐┌────┐┌────┐       ┌───┐┌───┐┌───┐┌───┐┌────┐│
│  │SAVE││DELETE││Data││←←  ││→ →│ 12:25  │SD1││SD2││SD3││SD4││HELP││
│  └────┘└──────┘└────┘└────┘└────┘       └───┘└───┘└───┘└───┘└────┘│
└─────────────────────────────────────────────────────────────┘
```

**Fig. III-6** - The EDIT soft key line.

### 3.7    EDITING A DIALER FILE ENTRY

Pressing the **Edit** soft key from the DIALER soft key line also accesses the ADD/EDIT soft key line, but in this case,  to modify dialer file entries.

When the **Edit** soft key is pressed, you  are  presented with the current dialer file entry, ready for modification. The block cursor is initially positioned at the name field.

STEP

| |
|---|
| 1)    From the DIALER soft key line,  position  the block cursor at the entry you wish to modify. |
| 2)    Press the **Edit** soft key. |
| 3)    Use the block cursor control keys, the editing cursor control keys and the keyboard  to  make the  desired changes to the name and telephone number. |

Although the changes to the entry appear on the Hyperion screen, they are not yet incorporated into your dialer file.

STEP

| |
|---|
| 4)    Press  the  **SAVE**  soft  key  to  finalize  the changes. |
| <div align="center">OR</div> |
| Press **Esc** to exit without making any changes. |

Pressing the **SAVE** soft key completes the **EDIT**ing action. You are returned to the DIALER soft key line, where  the  block cursor is positioned at the edited entry.

To leave the ADD/EDIT soft key line without changing the current entry, press the **Esc** key. The block cursor reappears at the current entry, which looks exactly as  it  did  before  you began to EDIT.

```
┌─────────────────────────────────────────────────────────────────┐
│ ┌───────────────────────────────────────────────────────────┐   │
│ │ PHONE:"              "  Modem    Voice  Tone  Off   00:00:00│   │
│ ├───────────────────────────────────────────────────────────┘   │
│  Current #: __                                                   │
│  Previous #:                                                     │
│ ┌─────────────────────────────────────────────────────────────┐ │
│ └─────────────────────────────────────────────────────────────┘ │
│    N A M E                        Number                         │
│                                                                  │
│                                                                  │
│                                                                  │
│   ┌─────────────────────────┐                                   │
│   │ F i s h e r ,   L e s l i e │    555-1133                    │
│   └─────────────────────────┘                                   │
│                                                                  │
│                                                                  │
│ ┌─────────────────────────────┐         ┌────┐      ┌────┐  ┌────┐│
│ │ Are you sure?               │  12:32  │YES │    │NO │ │HELP││
│ └─────────────────────────────┘         └────┘      └────┘  └────┘│
└─────────────────────────────────────────────────────────────────┘
```

**Fig. III-7** - The DELETE soft key asks **"Are you sure?"** before
proceeding with the delete action.

**3.8     DELETING A DIALER FILE ENTRY**

Dialer file entries are deleted from the  ADD/EDIT  soft
key line.

**STEP**

1)  From the DIALER soft  key  line, position  the
    block cursor at the entry to be deleted.

2)  Press the **Edit** soft key.

3)  Press the **DELETE** soft key.

    The soft key line now reads: **"Are you sure**?"

4)  Press  the  **YES**  soft  key  to  complete  the
    deletion  and  return  to  the DIALER soft key
    line.

                          OR

    Press  **No** or **Esc**  to exit  without deleting an
    entry.

The block cursor is now positioned at the  dialer  entry
which followed (alphabetically) the deleted entry.

Pressing the **NO** soft key or  the  **Esc**  key  cancels  the
DELETE action and returns you to the EDIT soft key line.  Press
**Esc**  a  second time to return to the DIALER soft key line.   The
block cursor remains positioned at the current entry.

Part III


Section 4

DIALING A NUMBER

```
 _____
|                                                                |
|  _____  |
| | PHONE:"Fisher, Leslie    "  Modem    Voice  Tone  Gff   00:01:22 |
| |                                                            |
|  Current #:  5 5 5 - 1 1 3[3] _                                 |
|                                                                |
|  Previous #:                                                   |
|  _____  |
| |                                                            | |
| |_____| |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
| [HANGUP][Dialer][Srvice][LAST_#][VOLUME] 12:40  [SD1][SD2][SD3][SD4][HELP] |
|_____|
```

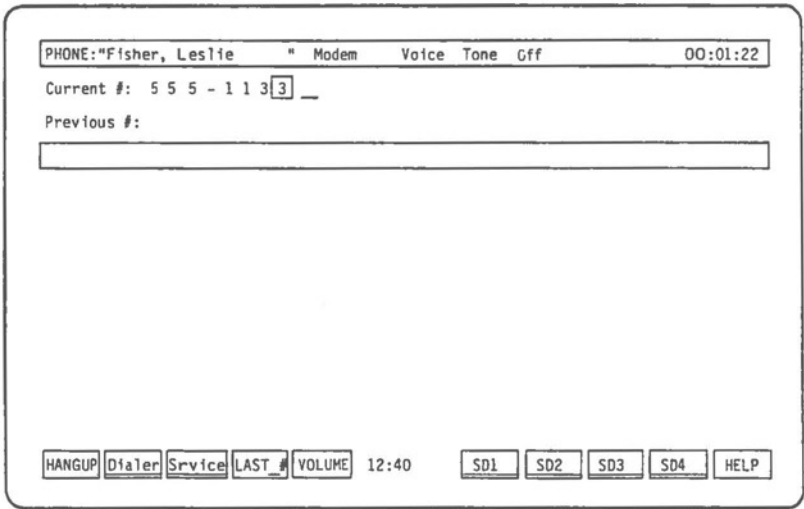**Fig. III-8** - The IN:TOUCH screen, as it appears when a
call is in progress.  Note the CALL ACTIVE
soft key line.

## Section 4

## DIALING A NUMBER

### 4.1    USED AS A REGULAR TELEPHONE

You can continue to use your telephone in the normal manner when it is attached to the Hyperion. To dial a call, simply pick up your telephone handset and dial out the call from the telephone. However, you may, if you choose, also use the Hyperion.

### 4.2    USING THE HYPERION DIAL PAD

STEP

1)  Press the **Num Lock** key until the octothorpe (#) appears in the center of the soft key line.

2)  Using the numeric keypad, enter a 7-digit local number.

    Digits and the hyphen are all acceptable characters in a telephone number.

3)  Press **F5** (SPKR) from the MAIN soft key line. You will hear the system begin dialing the number. The cursor moves across the number, highlighting each one as it is being dialed. Adjust the speaker volume by pressing **F5** (VOLUME).

4)  When you hear the called party answer, pick up the telephone receiver to converse.

5)  When the conversation ends, replace the receiver on the telephone to disconnect the call, or press **F1** (HANGUP).

```
┌─────────────────────────────────────────────────────────────────────┐
│ PHONE:"              "  Modem    Voice  Tone  Off          00:00:00  │
│                                                                       │
│ Current #: __                                                         │
│                                                                       │
│ Previous #:                                                           │
│ ┌───────────────────────────────────────────────────────────────────┐│
│ │Search: "S m i t h                          "                       ││
│ └───────────────────────────────────────────────────────────────────┘│
│                                                                       │
│   N A M E                           Number                            │
│                                                                       │
│   A b r a m s o n ,   G e o f f     555-6666                          │
│   A d a m s ,   G e o r g e         555-7777                          │
│   B r o w n ,   G a i l             555-8888                          │
│   C a r s o n ,   K a t h r y n     555-9999                          │
│   D e v l i n ,   R o n             555-0000                          │
│   E g a n ,   L i n d a             555-1122                          │
│  ┌────────────────────────────┐     555-1133                          │
│  │F i s h e r ,   L e s l i e  │                                      │
│  └────────────────────────────┘                                      │
│   G r a h a m ,   A r n i e         555-1144                          │
│   H o u g h t o n ,   D a v i d     555-1155                          │
│   I n g r a m ,   S h i r l e y     555-1166                          │
│   J a c k s o n ,   R o b           555-1177                          │
│   K e e l e r ,   A n g e l a       555-1188                          │
│   L o w e ,   B a r b a r a         555-1199                          │
│                                                                       │
│ ┌────┐┌────┐┌─────┐┌─────┐┌────┐       ┌────┐┌────┐┌────┐┌───┐┌────┐  │
│ │Main││FIND││Srvice││START││SPKR│ 12:24 │ ↑↑ ││ ↓↓ ││Edit││Add││HELP│ │
│ └────┘└────┘└─────┘└─────┘└────┘       └────┘└────┘└────┘└───┘└────┘  │
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. III-9** - The dialer file display and the DIALER
soft key line.

## 4.3    AUTODIAL FROM THE DIALER FILE

Calls to numbers listed in only the main dialer file must be dialed from the DIALER soft key line.

STEP

| |
|---|
| 1)  Access the dialer file display. |
| 2)  Position the block cursor at the entry you wish to call. The number dialed will be the one associated with the entry. |
| 3)  Press **F5** (SPKR), or lift the telephone receiver. The system outpulses the call. |
| 4)  When the called party responds, lift the telephone receiver (if you have not already done so) and begin your conversation. |
| 5)  When the conversation ends, replace the receiver on the telephone to disconnect the call.<br><br><div align="center">OR</div><br>If you wish to terminate the call without replacing the receiver, press **F1** (HANGUP). |

Pressing the **SPKR** soft key copies the selected number to the "**Current #**" line, turns the Hyperion speaker on, and begins dialing the call. There is no need to lift the telephone receiver until the call is answered. You hear either tones or pulses from the speaker as the number is dialed.

At this point, you may press any soft key and continue to work with IN:TOUCH: searching, adding, editing, or deleting entries. Once you have picked up the receiver, you may even exit IN:TOUCH and return to DOS if you wish.

When the called party answers, pick up the telephone receiver (if you have not already done so) and begin your conversation. If the called party does not respond, or when your conversation ends, replace the receiver to disconnect the call.

```
┌─────────────────────────────────────────────────────────────────────┐
│ PHONE:"                   "  Modem    Voice  Tone  Off        00:04:03│
│                                                                       │
│ Current #: __                                                         │
│                                                                       │
│ Previous #: 555-1133                                                  │
│ ┌───────────────────────────────────────────────────────────────────┐│
│ └───────────────────────────────────────────────────────────────────┘│
│                                                                       │
│      N A M E                        Number                            │
│                                                                       │
│ F1  M a s o n ,   T o n y           555-2211                          │
│ F2                                                                    │
│ F3  F i s h e r ,   L e s l i e     555-1133                          │
│ F4                                                                    │
│ F5  S m i t h ,   J o h n           555-1234                          │
│ F6                                                                    │
│ F7  A b r a m s o n ,   G e o f f   555-6666                          │
│ F8                                                                    │
│ F9  O v e r t o n ,   N e i l       555-2244                          │
│ F10 R y a n ,   T h e r e s a       555-1111                          │
│                                                                       │
│ ESC cancels request for this speed dialer                             │
│ ┌─────┐ ┌──┐ ┌──────┐ ┌──┐ ┌──────┐        ┌──┐ ┌──────┐ ┌──┐ ┌─────┐ │
│ │Mason,│ │F2│ │Fisher│ │F4│ │Smith,│ 12:45  │F6│ │Abrams│ │F8│ │Overto│Ryan,│
│ └─────┘ └──┘ └──────┘ └──┘ └──────┘        └──┘ └──────┘ └──┘ └─────┘ │
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. III-10** - Any one of ten speed dialer entries can
be dialed with one keystroke.

**Data Calls**

Although data calls can be dialed automatically from the dialer file, the corresponding modem parameters must have already been set for the call, or they can be set manually after having selected the data call number from the dialer file. The procedures for doing this are described in Section 6.

## 4.4    SPEED DIALING A CALL

Calls to numbers listed in a speed dialer can be dialed from that speed dialer's soft key line, as well as from the DIALER line.

STEP

| | |
|---|---|
| 1) | From any soft key line that displays the four available speed dialers (MAIN, ADD/EDIT, CONFIGURATION) press a speed dialer soft key (**F6** through **F9**, labelled **SD1** through **SD4**, or with labels of your own definition). |
| 2) | Press a soft key (**F1** through **F10**) to dial the entry on the corresponding line of the speed dialer. |
| 3) | Proceed as for a call placed from the dialer file. |

Pressing one of the speed dialer soft keys (**SD1** through **SD4**) instantly displays the contents of the selected speed dialer (Fig. III-11). Pressing the soft key which corresponds to the required number adds that number to the **"Current #:"** line, turns the Hyperion speaker on, and begins dialing the call. You hear the dialing tones or pulses as the call is dialed. From this point, the call proceeds exactly as a main dialer file call.

## 4.5    REDIALING

When an IN:TOUCH-dialed call is disconnected, the called number moves from the **"Current #:"** line to the **"Previous #:"** line. From the MAIN soft key line, the "previous" number can be re-dialed automatically.

### STEPS

```
1)    Press the LAST # soft key from the  MAIN  soft
      key line.

2)    Proceed as for a call placed from  the  dialer
      file entry.
```

Pressing the **LAST #** soft key copies the "previous" number to the **"Current #:"** line, turns the Hyperion speaker on, and begins dialing the call. You hear the dialing tones or pulses as the call is dialed. From this point, the call proceeds exactly as a main dialer file call.

## 4.6    OTHER WAYS TO DIAL VOICE CALLS

### Combination Dialing

IN:TOUCH allows you to combine various methods of dialing. For example, you are travelling and wish to place a long distance call to a "local" number from your dialer file. From the MAIN soft key line, use the Hyperion keyboard or numeric pad to enter the digit 1, plus the required area code. Next, go to your dialer file or a speed dialer and select the seven-digit number you wish to dial. IN:TOUCH copies the selected number beside the previously entered area code, turns the Hyperion speaker on, and begins dialing the call, starting with the digit 1.

The **NEWNUM** key on the MAIN/DIALER SERVICE soft key line provides another special dialing facility. Pressing this key causes the number shown on the **"Current #:"** line to be erased without disconnecting the telephone call in progress. A new number may then be entered on this line using the keyboard or numeric pad. To dial the new number, press the **SPKR** soft key, or replace the receiver on the telephone and lift it once again.

### 4.7    USING THE HYPERION WHILE CONVERSING

Once your call has been connected, and if you have  made
the  call in the regular way (i.e., by using the telephone dial
pad to dial the call), then you may continue using the Hyperion
systems via the keyboard and soft keys, as before.

### 4.8    TURNING THE SPEAKER ON/OFF

You may dial out without lifting the handset.   In  this
case, once  you  press  the  SPKR  soft  key,  the  sounds  are
transmitted via the Hyperion speaker.

Lifting the handset (going "off-hook") turns the speaker
off.  Dial tones, and the conversation  on  the  line,  can  no
longer be heard from the Hyperion.

To turn the speaker back on, press **F1** (the  HANGUP  soft
key).   This  will not disconnect your call.  The conversation,
however, will be transmitted by the  Hyperion  speaker  and  be
therefore audible to all those in the vicinity.

To terminate the call, replace the handset.

Part III

# USING THE SPEED DIALER

```
┌─────────────────────────────────────────────────────────────────────┐
│  ┌──────────────────────────────────────────────────────────────┐   │
│  │ PHONE:"                    "  Modem   Voice  Tone  Off   00:00:00│   │
│  └──────────────────────────────────────────────────────────────┘   │
│   Current #: __                                                      │
│                                                                      │
│   Previous #:                                                        │
│  ┌──────────────────────────────────────────────────────────────┐   │
│  │                                                              │   │
│  └──────────────────────────────────────────────────────────────┘   │
│        Dialer     Label                                              │
│        SD1       "┌SD1──┐"                                           │
│        SD2       "SD2   "                                            │
│        SD3       "SD3   "                                            │
│        SD4       "SD4   "                                            │
│                                                                      │
│                                                                      │
│                                                                      │
│                                                                      │
│   ┌────┐ ┌──┐ ┌──┐ ┌──┐┌──┐          ┌──┐┌──┐┌──┐┌──┐  ┌────┐         │
│   │SAVE│ │  │ │  │ │↑↑││↓↓│ 12:34     │  ││  ││  ││  │  │HELP│         │
│   └────┘ └──┘ └──┘ └──┘└──┘          └──┘└──┘└──┘└──┘  └────┘         │
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. III-11** - The four speed dialer soft key labels may be changed from the LABELS soft key line.

## Section 5

### USING THE SPEED DIALER

The IN:TOUCH speed dialers are extensions of the main dialer file. Speed dialers permit fast, one-key access to frequently-used numbers. Four speed dialers are available, each of which can contain 10 entries.

### 5.1   SOFT KEY LABELS FOR THE FOUR SPEED DIALERS

Initially, the soft keys used to access the speed dialers are labelled **SD1**, **SD2**, **SD3**, and **SD4**. Those are the labels used in this manual. However, you have the option of giving the speed dialers more meaningful labels. You may define new labels, up to six characters long, by accessing the LABELS soft key line.

STEP

| | |
|---|---|
| 1) | Press **F3** (Srvice) from the MAIN soft key line. This displays the SERVICE soft key line. |
| 2) | Press **F6** (LABELS). |
| | The four speed dialer labels are displayed, together with the LABELS soft key line. |
| 3) | Use the cursor control soft keys to position the block cursor at the label to be changed. |
| 4) | Type the new label. |
| 5) | Repeat for the other three labels, if desired. |
| 6) | Press **F1** (SAVE) to finalize the new label(s). You are returned to the SERVICE soft key line. |

<div align="center">OR</div>

Press **Esc** to exit without changing any labels. This erases the labels display and redisplays the SERVICE soft key line.

```
┌─────────────────────────────────────────────────────────────────────┐
│ ┌─────────────────────────────────────────────────────────────────┐ │
│ │PHONE:"                  "  Modem    Voice Tone Off      00:00:00 │ │
│ └─────────────────────────────────────────────────────────────────┘ │
│  Current #: __                                                       │
│  Previous #:                                                         │
│ ┌─────────────────────────────────────────────────────────────────┐ │
│ └─────────────────────────────────────────────────────────────────┘ │
│      N A M E                        Number                           │
│                                                                      │
│  F1  M a s o n ,   T o n y          555-2211                         │
│  F2                                                                  │
│  F3  F i s h e r ,   L e s l i e    555-1133                         │
│  F4                                                                  │
│  F5  S m i t h ,   J o h n          555-1234                         │
│  F6                                                                  │
│  F7  A b r a m s o n ,   G è o f f   555-6666                        │
│  F8                                                                  │
│  F9  O v e r t o n ,   N e i l      555-2244                         │
│  F10 R y a n ,   T h e r e s a      555-1111                         │
│                                                                      │
│  ESC cancels request for this speed dialer.                          │
│ ┌──────┐┌──┐┌──────┐┌──┐┌──────┐       ┌──┐┌──────┐┌──┐┌─────┐┌────┐│
│ │Mason,││F2││Fisher││F4││Smith,│ 12:36 │F6││Abrams││F8││Overto││Ryan,││
│ └──────┘└──┘└──────┘└──┘└──────┘       └──┘└──────┘└──┘└─────┘└────┘│
└─────────────────────────────────────────────────────────────────────┘
```

**Fig. III-12** - The contents of a speed dialer.
Note that each entry has a
corresponding soft key label.

## 5.2    SPEED DIALER DISPLAY SCREEN

Speed dialers are displayed from the MAIN soft key line.

STEP

> 1)    Press a speed dialer soft key (**F6** through   **F9**,
>        labelled **SD1**  through  **SD4**, or with labels of
>        your own definition) from the  MAIN   soft   key
>        line.

You are ready to dial a call to any of the ten  entries.
(See Section 4 for a description of the dialing function.)

STEP

> 2)    Press the soft key  that  corresponds  to  the
>        number you wish to dial.
>
>        The system dials the number.
>
>                            OR
>
>        Press **Esc** to redisplay the MAIN soft key  line
>        without dialing any number.

## 5.3    SOFT KEY LABELS FOR THE TEN SPEED DIALER ENTRIES

The soft keys for the SPEED  DIALER  and  ADD  TO  SPEED
DIALER soft key lines are initially labelled **F1, F2, F3,** and so
on,  up  to **F10.**  However, once names and telephone numbers are
placed into the speed dialers, the labels for these  soft  key
lines  are  automatically  taken  from  the  name fields of the
corresponding entries.  Each label uses  the  shorter  of:  the
first six characters in the name field; or the characters up to
the first blank in the name field. For example, if the entry at
**F1**  in  Speed Dialer 1 is "Smith, John", the label for soft key
**F1** will read "Smith,".  (See Fig. III-12.)

## 5.4    ADDING A NEW ENTRY TO A SPEED DIALER

To add an entry to a speed dialer, that entry must first exist in the main dialer file.  Therefore, to add an entry to a speed dialer, you must first add it to the dialer file.

STEP

---

1)  Press F2 (Dialer) from the MAIN soft key line. This accesses the dialer file and  the  DIALER soft key line.

2)  For a new  entry,  press  the  **Add**  soft  key. Otherwise,  position  the  block cursor to the desired entry in  the  main  dialer  file  and press the **Edit** soft key.

   The highlighted  entry  is  isolated  and  the ADD/EDIT soft key line appears.

3)  Type the new  name  and  telephone  number  or modify  the  existing  name  and  number,  if necessary.

---

The new or existing entry is now ready to be added to  a speed dialer.

STEP

---

4)  Press a speed dialer soft key (F6 through  **F9**, labelled  **SD1**  through  **SD4**, or with labels of your own definition) to display  the  selected speed dialer.

---

STEP (cont)

---

5)  Press a soft key (**F1** through **F10**) to mark   the
    speed  dialer  line on which you wish to place
    the current entry.

                            OR

Press **Esc.**

The item is  redisplayed,  together  with  the
ADD/EDIT soft key line.

---

If there already was an entry in the speed  dialer  item
you  selected,  "**Are  you  sure**?"  appears on the soft key line
(Fig.  III-13).  Press the **YES**  soft  key  to  mark  the  line.
Pressing  the  **NO**  soft  key  or the **Esc** key returns you to the
ADD/EDIT soft key line without marking any line.

Although the speed dialer display disappears, the system
has marked the line on which the current entry is to be placed.
However, the entry has not yet been added to the speed dialer.

STEP

---

6)  Press  F1  (**SAVE**)  to  finalize  all  of  your
    actions:  **ADD**ing  the  new  entry; **EDIT**ing the
    existing   entry;  or  replacing  an  existing
    entry.

    The dialer file and DIALER soft key  line  are
    redisplayed.

---

Pressing the **Esc** key, instead of **SAVE**,  cancels  all  of
the above actions and returns you to the dialer file and DIALER
soft key line.

```
┌──────────────────────────────────────────────────────────────────────┐
│  ┌─────────────────────────────────────────────────────────────────┐  │
│  │ PHONE:"              "   Modem   Voice  Tone  Off      00:00:00 │  │
│  └─────────────────────────────────────────────────────────────────┘  │
│   Current #: __                                                        │
│   Previous #:                                                          │
│  ┌─────────────────────────────────────────────────────────────────┐  │
│  │                                                                 │  │
│  └─────────────────────────────────────────────────────────────────┘  │
│      N A M E                        Number                             │
│                                                                        │
│   F1  M a s o n ,   T o n y         555-2211                           │
│   F2                                                                   │
│   F3  F i s h e r ,   L e s l i e   555-1133                           │
│   F4                                                                   │
│   F5  S m i t h ,   J o h n         555-1234                           │
│   F6                                                                   │
│   F7  A b r a m s o n ,   G e o f f 555-6666                           │
│   F8                                                                   │
│   F9  O v e r t o n ,   N e i l     555-2244                           │
│   F10 R y a n ,   T h e r e s a     555-1111                           │
│                                                                        │
│   ESC cancels request for this speed dialer.                           │
│  ┌──────────────────────────┐ 12:39 ┌─────┐    ┌────┐    ┌──────┐      │
│  │ Are you sure?            │       │ YES │    │ NO │    │ HELP │      │
│  └──────────────────────────┘       └─────┘    └────┘    └──────┘      │
└──────────────────────────────────────────────────────────────────────┘
```

**Fig. III-13** - Before replacing a speed dialer entry, the system
asks:  "Are you sure?"

## 5.5    EDITING A SPEED DIALER ENTRY

Changes made to any main dialer file entry which also appears in a speed dialer are automatically reflected in that speed dialer.

## 5.6    DELETING A SPEED DIALER ENTRY

Any entry deleted from the main dialer file is automatically deleted from any speed dialer in which it appears. Any speed dialer entry which is replaced by a different entry is deleted from the speed dialer, but remains in the main dialer file.

Part III


**Section 6**

**DATA CALLS**

```
┌─────────────────────────────────────────────────────────────┐
│  ┌─┐                                                          │
│  └─┘                                                          │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│ ┌──────┬─────┬─────┬─────┬────┐      ┌────┬───┬───┬─────┬────┐│
│ │HANGUP│Files│Srvice│LEARN│    │ 12:47│Term│   │   │Break│HELP││
│ └──────┴─────┴─────┴─────┴────┘      └────┴───┴───┴─────┴────┘│
└─────────────────────────────────────────────────────────────┘
```
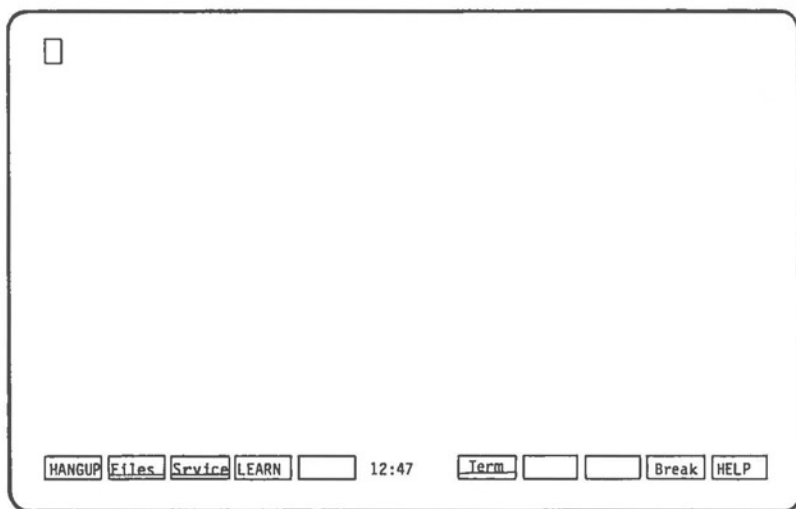
**Fig.  III-14 -** The DATA soft key line.  After the carrier  tone
is detected,  the  system  erases  the IN:TOUCH
display and is ready to receive data.

## Section 6

### DATA CALLS

#### 6.1   TYPES OF DATA CALLS

Using the Hyperion, you can  send  or  receive  data  in
several different ways:

1)    You can dial a voice call, and then press  the
      DATA soft key to change that voice call into a
      data call.   These   calls   are   known   as
      "manual-data".

2)    You can store data call numbers in the  dialer
      file  and,  by accessing them, have the system
      automatically dial these numbers out for  you.
      Such calls are known as "auto-dial".

In   both   cases,   the   system  needs  to  match  the
transmission parameters of the far-end device  in  order  to  be
able  to  communicate  with  it.  These transmission parameters
(shown and described in Table III-C) may be set  before  making
the  data  call, or may be stored separately for each data call
number in the dialer file.

```
┌─────────────────────────────────────────────────────────────────────────┐
│  ┌──────────────────────────────────────────────────────────────────┐   │
│  │ Edit:"F i s h e r ,   L e s l i e                    "           │   │
│  └──────────────────────────────────────────────────────────────────┘   │
│                    Name: "Fisher, Leslie        "                        │
│                  Number: "555-1133                          "            │
│            Type of Call: (Auto-Data)  Manual-Data   Voice                │
│               Baud Rate: 110  150  (300)  600  1200  2400  4800  9600  19200 │
│                  Parity: Odd   Even   (None)                             │
│               Data Bits: (7)  8                                          │
│               Stop Bits: (1)  2                                          │
│                  Duplex: (Full)  Half                                    │
│       Partial Speed Send: No  (Yes)                                      │
│      Local Auto Line Feed: (No)  Yes                                     │
│            Hold Request: (None)   XOFF-13H  Single-_H  Double-_H         │
│          Resume Request: (None)    XON-11H  Single-_H  Double-_H         │
│           Abort Request: (None)    EOT-03H  Single-_H  Double-_H         │
│       Deletions:  First: (None)   NULL-OOH  Single-_H                    │
│                  Second: (None)   XOFF-13H  Single-_H                    │
│                   Third: (None)    XON-11H  Single-_H                    │
│          Host Enter Key: (CR-ODH)   LF-OAH  Single-_H                    │
│          Number of Nulls: OO                                            │
│     Speed Dial Directory: SD1                                           │
│                                                                          │
│  ┌──────┐┌────┐┌────┐┌────┐┌────┐           ┌────┐┌────┐┌────┐┌────┐┌────┐ │
│  │ SAVE ││← ←││→ →││↑ ↑││↓ ↓│ 12:30      │SD1 ││SD2 ││SD3 ││SD4 ││HELP│ │
│  └──────┘└────┘└────┘└────┘└────┘           └────┘└────┘└────┘└────┘└────┘ │
└─────────────────────────────────────────────────────────────────────────┘
```

**Fig. III-15** - The PARAMETERS soft key line, with the table of transmission parameters displayed, as they would be when assigning them to a dialer file entry.

## 6.2    ADDING A DATA CALL NUMBER TO THE DIALER FILE

The process of adding a data call number to  the  dialer
file  is  twofold:  add  the  name  and  number,  then  add  the
transmission parameters that pertain to that name and number.

STEP

| | |
|---|---|
| 1) | Press **F2** (Dialer) from the MAIN soft key line. The dialer file and DIALER soft key  line  are displayed. |
| 2) | Press **F9** (Add). This displays a blank name and number field,  and the ADD/EDIT soft key line. |
| 3) | Enter a name and telephone number. |
| 4) | Press **F3** (Data). |
| | This  displays  a  table  of  transmission parameters,  and  the PARAMETERS soft key line (Fig. III-15). |
| 5) | Using the cursor movement (arrow)  soft  keys, and  the  information provided in Table III-D, select    the    appropriate    transmission parameters. |
| 6) | Press **F1** (SAVE). |
| | The dialer file and DIALER soft key  line  are redisplayed, with the new entry entered at the block cursor position. |

If you press **Esc**, instead of **SAVE**, the  dialer  file  is
redisplayed,  but  the  data call number is not entered, and the
transmission parameters are not selected.

## 6.3    THE DATA TRANSMISSION PARAMETERS

In international relations, the word "protocol" is used to express the formalities and rules governing communication. In data transfer, protocol means exactly the same thing: the rules governing "conversations" (exchange of signals) between two devices.

The language of the "conversation" is already fixed. This language is written in binary digits (more usually called "bits"), binary being a number system which uses only the digits 0 (off) and 1 (on). The "protocol" sets the other rules of the "conversation". For example, the machines must agree on how fast to "talk" (baud rate); how many bits constitute a "word" (data bits); and how "words" are distinguished from one another (stop bits). These are just a few of the formalities. Others include:

*    Parity checking -- a means of monitoring the "conversation" for loss or change in "meaning". The data bits are summed before transmission, and the result is transmitted in a parity bit which is checked against the data on receipt.

*    Type of duplex -- In full duplex, the remote device echoes everything "said" to it, sending the echo to appear on the local screen. In half duplex, the remote device assumes that the local machine can produce its own echo for the screen. If a machine is mistakenly in full duplex, two characters appear on the screen for each character typed; if mistakenly in half duplex, no characters appear.

*    Local automatic line feed -- similar to duplex, in that the remote and local devices must agree as to who is supplying the line feed following each carriage return. Usually, the host computer supplies the line feed. If it does not, the local machine must. If the remote device does not produce the line feed, and local auto line feed is not in effect, each new line of text sent from the host computer is printed directly over the last. Alternately, if the remote machine does produce its own line feed, and local auto line feed is in effect, each carriage return produces two line feeds. The line feeds produced by the local auto line feed feature are not transmitted to the remote device.

* <u>Special-purpose hexadecimal codes</u> -- Hold, resume
  and abort requests (codes) cause the remote device
  to suspend, resume or prematurely end the current
  transmission. Deletions cause the local device to
  "ignore" certain codes in transmissions from the
  remote machine. The host enter key is a code which
  the remote device accepts as terminating a command
  or line of text (normally the carriage return). The
  two devices must agree on which codes will be used.
  These codes are expressed in hexadecimal, a number
  system which uses 16 "digits", 0 through 9,
  followed by A through F. Hexadecimal codes normally
  have two "digits" each, for a total of 256 possible
  codes.

* <u>Null characters</u> -- used mainly for printers,
  allowing the device enough time to accomplish a
  line feed, form feed or page feed before more data
  is transmitted.

Even if the two devices do not use all of these
parameters, they must <u>agree</u> not to use them. Setting
transmission parameters is the most technical part of using a
data service or contacting another microcomputer. If you should
need to contact a service or computer which demands different
settings, you will likely be provided with the necessary
values.

The following table gives the parameters as they appear
in the parameters table (Fig. III-15) for each dialer entry.
The intial value of each parameter is also given.

### Table III-C
### DATA CALL NUMBER PARAMETERS

---

| PARAMETER | FUNCTION |
|-----------|----------|
| Name | The entry name as it will appear in the dialer file. This has no initial value; it must be individually keyed for each new entry created. An entry name consisting of spaces alone will not be accepted. (The name may be keyed from the ADD/EDIT soft key line.) |

---

Table III-C (cont)
DATA CALL NUMBER PARAMETERS

-------------------------------------------------------------------
PARAMETER                           FUNCTION
-------------------------------------------------------------------

**Number**      The telephone number of the entry as it  will  appear
                in  the  dialer file. This has no initial value; it
                must   be  individually  keyed  for  each  new  entry
                created.  (The number may be keyed from the  ADD/EDIT
                soft key line.)

                A   telephone  number  may  consist  of  any  of  the
                following characters:

                - ( ) + # * , ; blank digits  A B C T P


**Type**        Choices   are   Auto-Data,   Manual-Data   and  Voice.
**of Call**     Initially, the call type is **"Voice"**.   Whenever  this
                table  is  accessed,  the  **"Voice"**  call   type   is
                automatically switched to **"Auto-Data"**.

                When the call type is **"Voice"**, all parameters  except
                the name and telephone number are ignored.

                When the call type is **"Auto-Data"**, and the data  call
                is  made,  the transmission parameters that are set in
                this table take effect.

                When the call type is **"Manual-Data"**,  the  call  is
                intially   treated  as  if  the  call type is **"Voice"**.
                However, if the **DATA** soft key on the SERVICE soft key
                line  is pressed, then the call is treated as  if  the
                call type is **"Auto-Data"**, the transmission parameters
                that are set in this table take effect.


**Baud Rate**   Sets the speed of data transfer in bits  per  second.
                For a new entry, this value is taken from the current
                value  in  the MODEM table.  Initially,
                this value is set to **"300"**.


**Parity**      Determines whether the data  is  checked  for  parity
                bits.   For a new entry, this value is taken from the
                current value in the MODEM  table.   Initially,  this
                value is set to **"None"**.

-------------------------------------------------------------------

### Table III-C (cont)
### DATA CALL NUMBER PARAMETERS

---

| PARAMETER | FUNCTION |
|-----------|----------|

---

**Data Bits**    Defines the number of data bits that define one "word" of data. Initially, this value is set to "**7**".

**Stop Bits**    Defines the number of stop bits which are used to frame the data "word". Initially, this value is set to "**1**".

**Duplex**    Defines whether local echo is used by the internal modem. Initially, this value is set to "**Full**".

**Partial Speed Send**    Cuts the speed of data transmission by one half. Initially, this value is set to "**Yes**".

**Local Auto Line Feed**    Defines whether a carriage return from the remote device also produces a line feed at the local screen. Initially, this value is set to "**No**".

**Hold Request**    Defines the signal which causes the remote device to hold data transmission. None, a standard value of 13H (hexadecimal), or a user-defined hexadecimal value (00 through FF) may be selected. Initially, this value is set to "**None**".

**Resume Request**    Defines the signal which causes the remote device to resume data transmission. None, a standard value of 11H (hexadecimal), or a user defined hexadecimal value (00 through FF) may be selected. Initially, this value is set to "**None**".

---

Table III-C (cont)
DATA CALL NUMBER PARAMETERS

```
-------------------------------------------------------------------
PARAMETER                         FUNCTION
-------------------------------------------------------------------
```

**Abort**          Defines the signal which causes the  remote  device
**Request**        to abort data transmission.  None, a standard value
                   of 03H (hexadecimal), or a user-defined hexadecimal
                   value (00 through FF) may be selected.  Initially,
                   this value is set to "**None**".

**Deletions**      Defines up  to  three  characters (First,  Second,
                   Third) which  will be stripped from incoming data.
                   None, three pre-defined hexadecimal values (00,  13
                   and 11)  or  three user-defined hexadecimal values
                   (00 through FF) may be selected.  Initially,  these
                   values are set to "**None**".

**Host Enter**     Defines the signal  which  is  transmitted  to  the
**Key**            remote device when the **Rtn** key is struck, or at the
                   end  of  each  line of text during a file transfer.
                   The carriage return code  (hexadecimal  value  0D),
                   the  line  feed  code  (hexadecimal value 0A) or a
                   user-defined hexadecimal code (value 00 through FF)
                   may be selected.  Initially, this value is  set  to
                   "**0D**" (for carriage return).

**Number**         A decimal value which defines the  number  of  null
**of Nulls**       characters  transmitted  after  a  carriage return,
                   line feed, or form feed is transmitted.  Initially,
                   this value is set to "**00**".

**Speed Dial**     This parameter appears only when the current  entry
**Directory**      has  been  added to a speed dialer.  This parameter
                   shows the label of the speed dialer  to  which  the
                   entry belongs.

```
-------------------------------------------------------------------
```

**6.4     MANUALLY SETTING THE TRANSMISSION PARAMETERS**

It is important to remember that the parameters table stored with a dialer file entry (Fig. III-15) is consulted only when that entry has a "Data" call type (automatic or manual).

When such a data call is made, the transmission parameters of the Hyperion are changed, and remain changed to the new values.

Transmission parameters may be reset manually at any time. To reset the transmission parameters:

**STEP**

| |
|---|
| 1)  Press **F3** (<u>Srvice</u>) from the MAIN, DIALER, DATA or FILES soft key line.<br><br>The SERVICE soft key line is displayed.<br><br>2)  Press **F7** (MODEM).  The transmission table appears on the Hyperion screen (Fig. III-16).<br><br>3)  Use the block cursor control keys to move the block cursor through the table of parameters, selecting appropriate values. |

Where there is a choice of parameter values, the value in parentheses is the value in effect. To alter the value, move the block cursor left or right, to the desired value. The last location of the block cursor before it is moved to another line is the "selected" parameter value. When the cursor is moved to a new line, it appears at the "selected" value.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│ ┌───────────────────────────────────────────────────────────────────────────┐ │
│ │ PHONE:"                      "                                             │ │
│ └───────────────────────────────────────────────────────────────────────────┘ │
│                                                                               │
│              Baud Rate:  110  150 ┌───┐ 600  1200  2400  4800  9600  19200    │
│                                   │300│                                       │
│                 Parity:  Odd  Even (None)                                     │
│              Data Bits:  (7)  8                                               │
│              Stop Bits:  (1)  2                                               │
│                 Duplex:  (Full)  Half                                         │
│     Partial Speed Send:  No  (Yes)                                            │
│   Local Auto Line Feed:  (No)  Yes                                            │
│           Hold Request:  (None)   XOFF-13H  Single-__H  Double-__H            │
│         Resume Request:  (None)    XON-11H  Single-__H  Double-__H            │
│          Abort Request:  (None)    EOT-03H  Single-__H  Double-__H            │
│     Deletions:  First:   (None)   NULL-00H  Single-__H                        │
│                Second:   (None)   XOFF-13H  Single-__H                        │
│                 Third:   (None)    XON-11H  Single-__H                        │
│         Host Enter Key:  (CR-0DH)  LF-0AH   Single-__H                        │
│         Number of Nulls: 00                                                   │
│                                                                               │
│                                                                               │
│  ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐                        ┌──────┐      │
│  │ SET │ │←← │ │→→ │ │↑↑ │ │↓↓ │ 12:12  ┌────┐┌────┐┌────┐┌────┐│ HELP │     │
│  └─────┘ └─────┘ └─────┘ └─────┘ └─────┘        └────┘└────┘└────┘└────┘└──────┘ │
└─────────────────────────────────────────────────────────────────────────────┘
```

**Fig. III-16** - The transmission parameters table that is displayed when resetting the parameters manually. Note that this display is the same as that in Fig. III-15, except for the **Name** and **Number** fields.

Although the manual changes to the parameter table appear on the Hyperion screen, they are not yet incorporated into the dialer file entry.

STEP (cont)

| 4) | Press **F1** (SET) to finalize the new parameter values. |
| --- | --- |

The new transmission parameters are now in effect, and remain so until they are reset either manually, or by dialing a new Auto-Data or Manual-Data call.

**6.5    MAKING A DATA CALL**

**Using the Dialer and Speed Dialer Files**

Once the appropriate transmission parameters are set,  a
data  call  may  be  placed using the Dialer or Speed Dialer in
much the same way they are used for "Voice" calls.

STEP

| |
|---|
| 1)   Locate the number to be dialed on the  dialer/ speed dialer file (see Section 2 and 3) |
| 2)   Press the **SPKR** soft key (**F5**).  DO NOT PICK  UP THE RECEIVER. |
| The  system  dials  out  the  data  call,  and accesses the remote device. |

**Signing On**

To access most computers, you will need to go through  a
sign-on  procedure.  Section 6.7 outlines how you can have your
Hyperion "learn" these procedures.

**Uploading/Downloading Files**

The procedures for uploading or downloading a  file  are
contained in Section 6.9.

## 6.6     TERMINATING THE DATA CALL

Disconnecting your data call automatically  returns  you
to the MAIN soft key line.

STEP

| | |
|---|---|
| 1) | Perform the normal sign-off sequence  for  the data service or host computer to which you are connected. |
| 2) | Press the **HANGUP** soft key (F1) from  the  DATA soft key line.  You are automatically returned to the MAIN soft key line. |

You may also end a data call, without disconnecting,  by
switching the call type to "**Voice**".  This feature allows you to
contact  other microprocessor users, transfer data and converse
during the same call.

STEP

| | |
|---|---|
| 1) | Press the **Srvice** soft key (F3) from either the DATA or FILES soft key line. This displays the DATA SERVICE soft key line. |
| 2) | Press the **VOICE** soft key (F2). |
| 3) | Pick  up  the  handset  and  start  your conversation. |

Pressing the **Srvice** soft key on either the DATA or FILES
soft key line takes you to  the  DATA/FILES  SERVICE  soft  key
line.    Pressing the **VOICE** soft key then switches the call type
from "**Data**" to "**Voice**".  You are automatically returned to  the
MAIN soft key line.

```
.password
HOST REPLY
.access code
HOST REPLY
.identification
HOST REPLY
□
```

```
┌──┐┌──┐┌──┐┌─────┐┌──┐ 12:50  ┌────┐┌──┐┌──────┐┌─────┐┌────┐
└──┘└──┘└──┘│PAUSE│└──┘        │STOP│└──┘│CANCEL││Break││HELP│
```
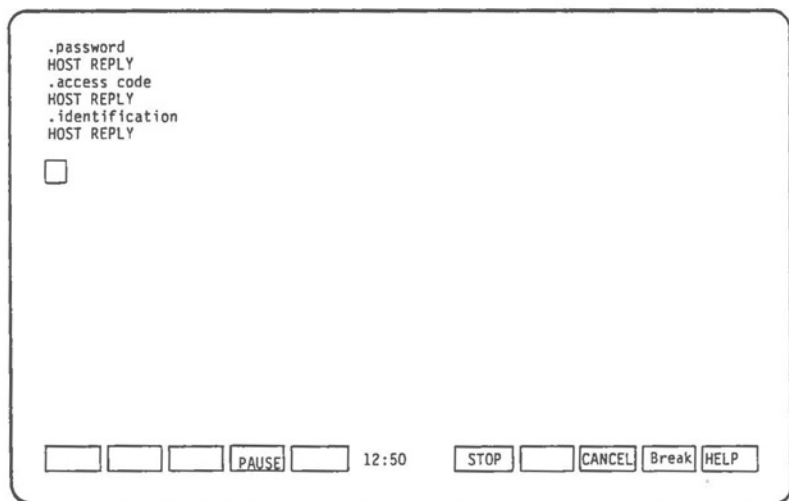
Fig. III-18 - The LEARN/RELEARN soft key line.

## 6.7    TEACHING YOUR HYPERION AN INPUT SEQUENCE

At any time during a data call, your Hyperion can "learn" a sequence of input lines. During subsequent calls to the same telephone number (if dialed from your dialer file), you may have the Hyperion "recall" that sequence, one line at a time.

For example, whenever you call a data service (or other host computer) you must normally complete a sign-on sequence in order to use that service. You can have your Hyperion "learn" the sign-on the first time you call the associated number. The sign-on is saved in your dialer file with that telephone number and, during future calls, may be "recalled" on request.

After dialing, or selecting, a data call:

**STEP**

```
1)  Press the SPKR soft key (F5).

    The Hyperion establishes the call.


2)  Once you are connected, press the LEARN soft
    key (F4) from the DATA soft key line.


3)  Begin entering your sign-on sequence in the
    normal manner.


4)  When you have completed the sign-on sequence,
    press the STOP soft key (F6).
```

Pressing the **LEARN** soft key accesses the LEARN/RELEARN soft key line (Fig. III-18). At this point the Hyperion begins to "learn" the characters you type.

Pressing the **STOP** soft key stops the "learning" and saves the "learned" sequence. Pressing the **CANCEL** soft key cancels the "learned" sequence. In either case, you are returned to the DATA soft key line.

```
┌──────────────────────────────────────────────────────┐
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│  ┌────┐┌─────┐┌─────┐┌──────┐┌────┐        ┌─────┐┌───┐┌───┐┌─────┐┌────┐ │
│  │Main││Files││Srvice││RLEARN││AUTO│ 12:51  │Term.││   ││   ││Break││HELP│ │
│  └────┘└─────┘└─────┘└──────┘└────┘        └─────┘└───┘└───┘└─────┘└────┘ │
│                                                        │
└──────────────────────────────────────────────────────┘
```
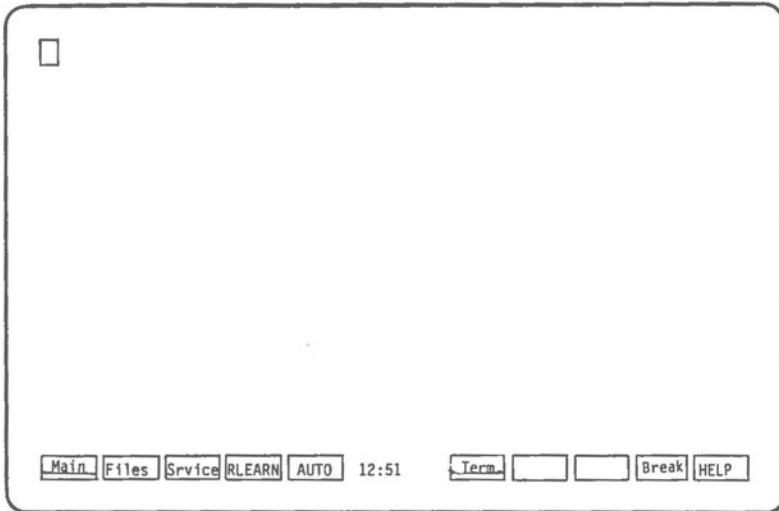
**Fig. III-19** - The DATA soft key line as it appears when
a "learned" sequence is saved with the
current dialer file entry.

### Entering "Pauses" Into a "Learned" Sequence

If there is some portion of the sequence you would prefer not to have the Hyperion "learn" - a private access code, for example - you may use the **PAUSE** soft key to suspend "learning" temporarily.

**STEP**

| | |
|---|---|
| 1) | Press the **LEARN** soft key from the DATA soft key line, and begin entering your sequence. |
| 2) | When you reach a line or word which is private, press the **PAUSE** soft key (**F4**).<br><br>Note that that soft key **F4** is now labelled "RESUME". |
| 3) | Type the private line or word, then press the **RESUME** soft key to resume "learning".<br><br>Note that soft key **F4** is again labelled "PAUSE". |

You may pause and resume as many times as necessary while "learning" a sequence. When the sequence is complete, press the **STOP** soft key to end "learning" and to save the "learned" sequence.

### Changing a "Learned" Sequence

Note that when a "learned" sequence is stored with the current dialer file entry, the DATA soft key line changes (Fig. III-19). The "learning" soft key is labelled **RLEARN**, and a new label, **AUTO**, is added to the line.

Pressing the **RLEARN** soft key allows you to replace or delete a previously "learned" sequence. When the LEARN/RELEARN soft key line appears, either type in the new sequence and press the **STOP** soft key to save it, or type nothing and press **STOP** to delete the previous sequence. Pressing the **CANCEL** soft key cancels the new "learned" sequence, but does not affect the previously "learned" sequence, which remains stored with the current dialer file entry. You are returned to the DATA soft key line.

### "Recalling" a "Learned" Sequence

To recall a "learned" sequence during the current call, press the **AUTO** soft key. The **AUTO** key must be struck once for each line in the sequence. This allows you to wait for the host computer to respond to each line, if necessary, before proceeding to the next.

STEP

---

1)   Once you are connected to a data call for which you have a "learned" sequence saved, press the **AUTO** soft key to "recall" the first line of the sequence.

2)   Press **AUTO** again to "recall" the next line. Repeat for each subsequent line in the sequence.

---

If you "paused" in the middle of a line while "learning" a sequence, the Hyperion will "pause" there while "recalling" it. Type the private word, or line, then press the **AUTO** key to continue "recalling" the sequence.

A sequence may be "recalled" only once during the same call. However, once you begin to "recall" a sequence, you are not obligated to continue. You may stop pressing AUTO at any time and begin entering commands or text manually. The next time you press **AUTO**, you will begin "recalling" the sequence from the point where you last left off.

## 6.8    TERMINAL EMULATION

Terminal    emulation    means    the    programming    of  your
terminal in order to enable it to behave like a given  type  of
terminal, such as a VT100. This emulation is done by calling up
a  terminal  emulation  filter  file.   These  filter files are
optional accessories for IN:TOUCH, and  may  be  obtained  from
your dealer.

To call up this filter file and reprogram your  Hyperion
to act as a specific terminal:

STEP

| | |
|---|---|
| 1) | Press **F6** (Term) from either the main  DATA  or the DATA SERVICE soft key line. |
| | The soft key line changes to the TERMINAL line (Fig.  III-20).  The flashing underline cursor waits in the T-NAME field. |
| 2) | Type in the **drivespec** and **filename** of  the terminal  emulation  filter  file.   This file should be accessible on your IN:TOUCH diskette and should have a filename extension of .EXT |
| 3) | Press **Rtn.** |

The soft key line now changes to  match  the  terminal's
special  function  keys.  The Hyperion is now ready to send and
receive data in a manner identical to the terminal specified by
the filter.  Key F10 is labelled IN:TCH.

If the terminal name entered does not match  any  filter
on  the  IN:TOUCH diskette,  the  following  error  message is
displayed:

**CAN'T OPEN – Hit any key to continue**

```
┌─────────────────────────────────────────────────────────┐
│  ┌─┐                                                      │
│  └─┘                                                      │
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│  ┌──────────────────────────┐ ┌─────┐ ┌──┐┌──┐┌──┐┌──┐┌────┐│
│  │T-NAME  "              "  │ │12:51│ │  ││  ││  ││  ││HELP││
│  └──────────────────────────┘ └─────┘ └──┘└──┘└──┘└──┘└────┘│
└─────────────────────────────────────────────────────────┘
```
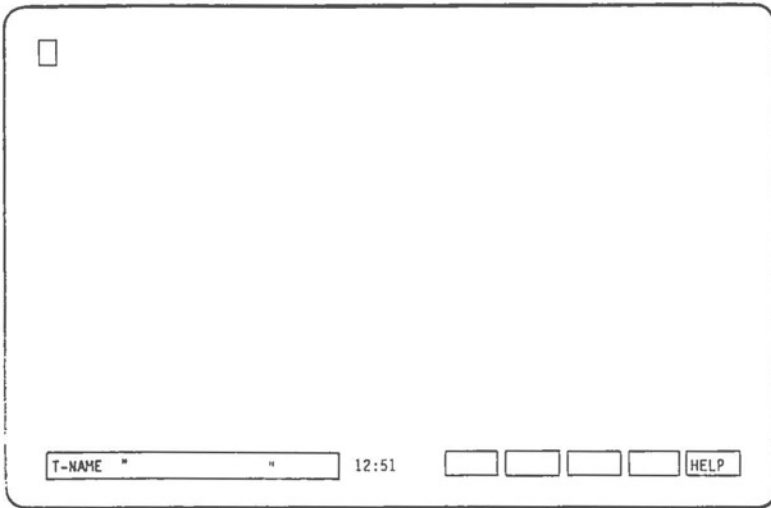
**Fig. III-20** - The TERMINAL soft key line.

To return to IN:TOUCH

**STEP**

| |
|---|
| 4)   Press **F10** (IN:TCH).<br><br>The IN:TOUCH system is reaccessed, and the main DATA soft key line is displayed. |

You can now use IN:TOUCH to upload or download files, or to do any other IN:TOUCH task.

To return to the same terminal emulation mode you were in before:

**STEP**

| |
|---|
| 5)   Press **F6** (<u>Term</u>) to redisplay the TERMINAL soft key line.<br><br>This time, soft key F6 has the label SAME.<br><br>6)   Press **F6** (SAME) instead of entering the terminal emulation file name.<br><br>The Hyperion is reprogrammed to emulate the same terminal as before. |

To completely stop the terminal emulation, reaccess the TERMINAL soft key line, and enter **TTY** in place of a file name.

```
┌─────────────────────────────────────────────────────────────┐
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│  │  │                                                         │
│  └──┘                                                         │
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│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│                                                               │
│ ⌐Files¬┌────┐┌Srvice┐┌UPLOAD┐┌DNLOAD┐ 12:53  ┌PCSEND┐┌PCRECV┐┌DIR/P┐┌Break┐┌HELP┐ │
└─────────────────────────────────────────────────────────────┘
```
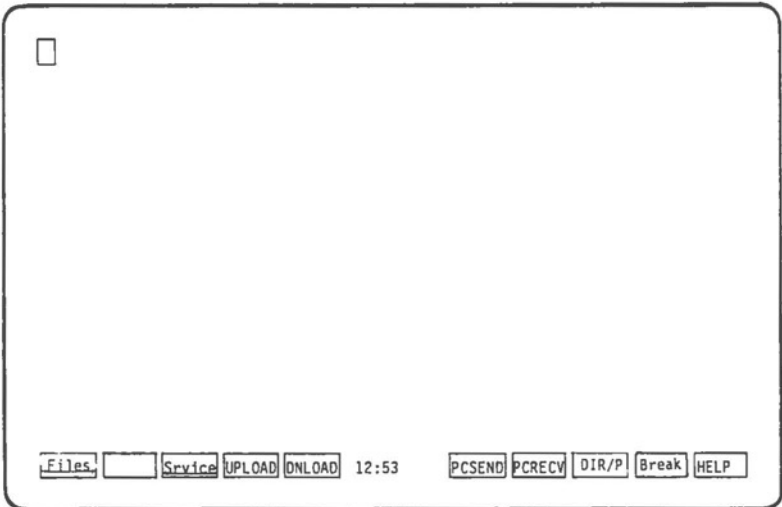
**Fig. III-21** - The FILES soft key line.

## 6.9    USE THE HYPERION AS A DATA TERMINAL

Once you have called a data service, or other host
computer, and received a carrier signal, the DATA soft key line
appears. At the same time, the remainder of the Hyperion screen
clears and a regular cursor appears in the upper left corner of
the screen.  Your Hyperion is now a TTY data terminal.

From this point, every character you type using the
alphanumeric keyboard is transmitted to the host computer.  You
are  no longer working with the Hyperion processor and diskette
drives; your work is being processed and  stored  by  the  host
computer.

The commands and text which you type,  and  the  host
computer responses, appear on the Hyperion screen. You can also
obtain  a  permanent  record  of  this terminal session, if you
wish.

STEP

| |
|---|
| 1)   Attach a compatible printer to your  Hyperion. (See  Part  II,  Section  2,  and the Hyperion Setup Guide for details.) |
| 2)   Press **Ctrl + Print**. |

**Ctrl + Print** causes a local printer echo.    This  means
that  every  character  which appears on the terminal screen is
repeated to your printer.  This produces a "hard copy" of  your
terminal session.

Although the Hyperion is  acting  as  a  data  terminal,
IN:TOUCH  is  still available to perform special data management
functions.  While all the alphanumeric keys are transmitted  to
the  host,  the  soft  keys  are  not.  Soft keys may be used to
transfer  files  from  your  Hyperion  diskettes  to  the  host
computer,  and  to store host computer files  onto Hyperion
diskettes. You may even consult your directory of files without
disturbing your connection to the host computer.
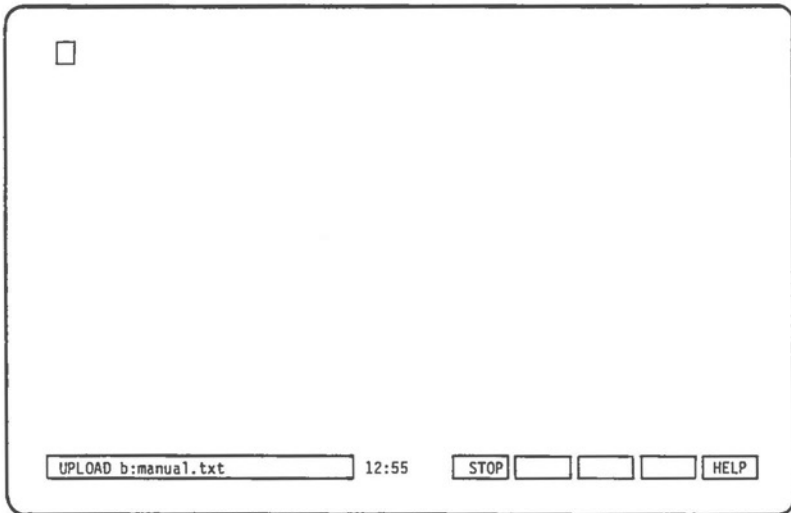
**Fig. III-22** - The UPLOAD/PCSEND soft key line.

## 6.10   SEND AND RECEIVE FILES

Pressing the **FILES** soft key in the DATA  soft  key  line accesses the FILES soft key line (Fig. III-21). This soft key line is used to transfer files to,  or  accept  files  from,  a remote device. You may transfer files using either the protocol defined in your MODEM table, or the IBM PC protocol.

**To send (UPLOAD) a file**

STEP

---

1)   From the FILES soft key line, press either the **UPLOAD** or **PCSEND** soft  key.   At  this  point, nothing  you  type is being transmitted to the host computer.

**UPLOAD** transmits using the protocol  currently defined  in  the MODEM table; **PCSEND** transmits using the IBM PC protocol. However, both keys access the same soft  key  line  (Fig. III-22). Either **"UPLOAD"** or **"PCSEND"**  appears on the left of the soft key line, depending on  which key  was  used.   Immediately  following  is  a flashing editing cursor.

2)   Type the drivespec of the diskette drive where the file is located (i.e., "A:", "B:").

3)   Type the filespec of the file.

4)   Press **Rtn.**

At  this  point,  transmission  to  the  host computer resumes. The system finds  the  file and  transmits  it one line at a time, exactly as if you were typing it.  The defined "enter" code is sent at the end of each line.

---

```
┌─────────────────────────────────────────────────────────────┐
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│                                                               │
│  ┌──────────────────────────┐  ┌────┐ ┌────┐┌──────┐┌────┐┌──────┐│
│  │ DNLOAD b:letter.dta      │ 1:21 │STOP│     │CANCEL│     │HELP│ │
│  └──────────────────────────┘  └────┘ └────┘└──────┘└────┘└──────┘│
│                                                               │
└─────────────────────────────────────────────────────────────┘
```
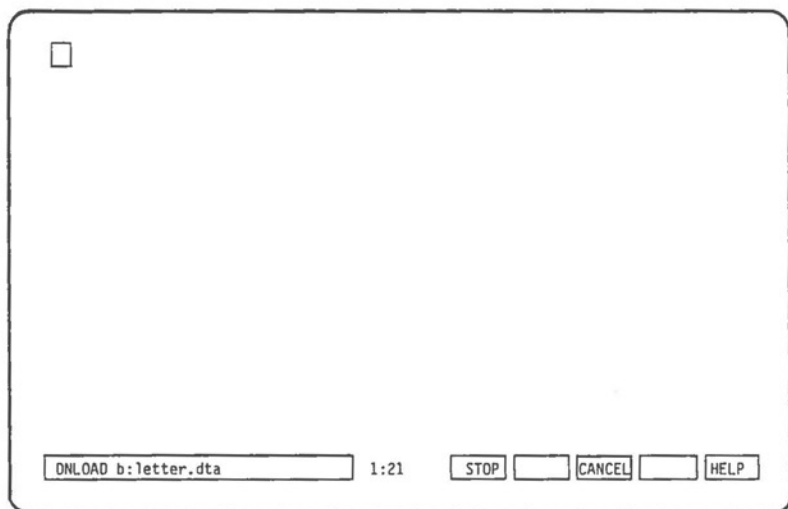
**Fig. III-23** - The DOWNLOAD/PCRECEIVE soft key line.

STEP (cont)

```
5)  When file transmission is complete,  uploading
    stops automatically;

                        OR

    press  F6  (the   STOP  soft  key)  to  stop
    uploading.

    You are returned to the DATA soft key line.
```

If the system cannot locate  the  specified  file,  the
message:  "**OPEN  ERROR- hit any key to continue**" appears on the
left of the soft key line.  Pressing any key returns you to the
DATA soft  key  line  and  resumes  communication to  the  host
computer.

**To accept (DOWNLOAD) a file**

STEP

```
1)  Type the host computer command which  displays
    the   required  file  on  the  Hyperion screen;
    however, DO NOT type the "enter" key (Rtn).

2)  From the FILES soft key line, press either the
    DNLOAD or PCRECV soft  key.   At  this  point,
    nothing you  type is being transmitted to the
    host computer.

    DNLOAD  accepts   files  using  the  protocol
    currently defined in the MODEM  table;  PCRECV
    accepts  files  using  the  IBM  PC  protocol.
    However, both keys access the  same  soft  key
    line (Fig.  III-23).  Either "DNLOAD"  or
    "PCRECV"  appears  on the left of the soft key
    line,  depending  on which  key  was  used.
    Immediately following is  a  flashing  editing
    cursor.
```

STEP (cont)

---

3)  Type the drivespec of the diskette drive where
    the file is to be stored (i.e., "**A:**", "**B:**").

4)  Type a new filespec for the file.

5)  Press **Rtn.**

    At  this  point,  transmission  to  the  host
    computer is resumed.

6)  Press the "enter" key (**Rtn**) to execute  the
    command which you typed in Step 1.

    The **Rtn** key generates a blank line.  This  is
    the first line entered into the new file.  The
    host  computer  now  begins  to  transmit  the
    requested file, one line at a time.

7)  When file transmission is complete, press  the
    **STOP** soft key to stop downloading and to store
    the  file.   You are returned to the DATA soft
    key line.

---

If you decide that you do not wish to store the incoming
information, press the **CANCEL** soft key.  Pressing **CANCEL**  stops
the downloading and ignores the file which has been received.

If  the  filespec  you  specified  in  Step  4  contains
unacceptable  characters  or  cannot  fit  on  the  specified
diskette,  the  message:  "**OPEN ERROR- hit any key to continue**"
appears  on  the  left  of  the  soft  key  line.   Pressing  any  key
returns  you to the DATA soft key line and resumes transmission
to the host computer.  Pressing the **Rtn** key at this point  will
access  the  host  computer  file  specified  in  Step  1,  but
downloading will not occur.  To try downloading again,  do  not
press **Rtn**, but immediately press the **DNLOAD** or **PCRECV** soft key
and repeat the above procedure from Step 3, using  a  different
drivespec and/or filespec.

**Special Precautions for Transferring  Files**
**Using the Manual Data Set-up**

The types of data-transfer calls which are usually
initiated manually are those between microprocessors. These
calls need to be carefully coordinated. Before starting, users
should discuss how the transfer will be accomplished. Data
could be lost during the transfer if the following precautions
are not observed:

*   Decide in advance who is "answering" the call.  In
    order for data transfer to take place, one of the
    machines must be the "originator"; the other, the
    "answerer". It does not matter which is which.  If
    you dialed the call through IN:TOUCH, your Hyperion
    is in "originate" mode.  To switch to answer mode,
    press the **ANSMOD** key from the  MAIN/DIALER  SERVICE
    soft key line.

*   Allow the user who is downloading (receiving)  data
    enough time to prepare a filespec before starting
    to upload (send).  If transmission is begun  before
    the download end is ready, a portion of the data
    being transmitted will be lost. It may be useful to
    agree that the upload end will not begin
    transmission until a given number of seconds after
    the call has been switched from "Voice" to "Data".

## Consulting Your Diskette Directory

You may consult your diskette directory from the FILES soft key line, if necessary.

**STEP**

1) From the FILES soft key line, press the **DIR/P** soft key. At this point, nothing you type is being transmitted to the host computer.

   The characters **DIR/P** appear on the left of the soft key line, followed by a flashing editing cursor.

2) Type the required drivespec (i.e., **"A:"**, **"B:"**) and a filespec, if desired.

3) Press **Rtn.**

The directory of all files matching the specified filespec on the specified drive is displayed on the Hyperion screen. If there are more files than can be displayed on one screen, press any key to move to the next screenful. Once the last screenful has been displayed, transmission to the host computer resumes.

Part III


Section 7

QUICK REFERENCE TO THE IN:TOUCH SOFT KEYS

The MAIN soft key line:
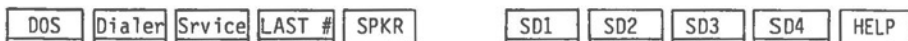
| DOS | Dialer | Srvice | LAST # | SPKR | | SD1 | SD2 | SD3 | SD4 | HELP |

The SPEED DIALER soft key line:

| F1 | F2 | F3 | F4 | F5 | | F6 | F7 | F8 | F9 | F10 |

The DIALER soft key line:

| Main | FIND | Srvice | START | SPKR | | ↓↓ | ↑↑ | Edit | Add | HELP |

The EDIT soft key line:

| SAVE | DELETE | Data | ←← | →→ | | SD1 | SD2 | SD3 | SD4 | HELP |

The PARAMETERS soft key line:

| SAVE | ←← | →→ | ↑↑ | ↓↓ | | SD1 | SD2 | SD3 | SD4 | HELP |

The DELETE/REPLACE soft key line:

| Are you sure? | | YES | NO | HELP |

The ADD TO SPEED DIALER soft key line:

| F1 | F2 | F3 | F4 | F5 | | F6 | F7 | F8 | F9 | F10 |
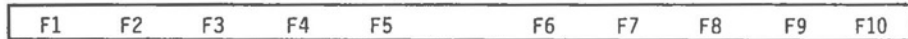
**Fig. III-24** - The IN:TOUCH soft key lines used to manage
your dialer file and to dial calls.

The MAIN/DIALER SERVICE soft key lines:

1) No call in progress

| Main | DATA |  |  | SPKR |  | LABELS | MODEM | CONFIG |  | HELP |
| Dialer |

2) Voice call in progress - originate mode

| Main | DATA | TIMSET | NEWNUM | VOLUME |  |  | MODEM | CONFIG |  | HELP |
| Dialer |

3) Voice call in progress - answer mode

| Main | DATA | TIMSET |  | VOLUME |  |  | MODEM | CONFIG |  | HELP |
| Dialer |

4) Data call in progress (waiting for carrier) - originate mode

| Main | VOICE | TIMSET | NEWNUM | VOLUME |  |  | MODEM | CONFIG | ANSMOD | HELP |
| Dialer |

5) Data call in progress (waiting for carrier) - answer mode

| Main | VOICE | TIMSET |  | VOLUME |  |  | MODEM | CONFIG | ANSMOD | HELP |
| Dialer |

The LABELS soft key line:

| SAVE |  | ↑↑ | ↓↓ |  |  | HELP |

The MODEM (transmission parameter) soft key line:

| SET | ←←  →→ | ↑↑ | ↓↓ |  |  | HELP |

The CONFIGURATION soft key line:

| SAVE | ←← →→ | ↑↑ | ↓↓ |  |  | HELP |

Fig. III-25 - The SERVICE soft key lines

The DATA soft key lines:

1) Learned information does not exist

| Main | Files | Srvice | LEARN | | | Term. | | | BREAK | HELP |

| HANGUP |

2) Learned information does exist

| Main | Files | Srvice | RLEARN | AUTO | | Term | | | BREAK | HELP |

| HANGUP |

The LEARN/RELEARN soft key line:

| | PAUSE | STOP | CANCEL | BREAK | HELP |
| | RESUME | | | | |

The FILES soft key line:

| Files | Srvice | UPLOAD | DNLOAD | PCSEND | PCRECV | DIR/P | BREAK | HELP |

The DATA/FILES SERVICE soft key line:

| Data | VOICE | | MODEM | CONFIG | BREAK | HELP |

| Files |

The UPLOAD/PCSEND soft key line:

| UPLOAD " | " | STOP | HELP |

| SEND |

The DOWNLOAD/PCRECEIVE soft key line:

| DNLOAD " | " | STOP | CANCEL | HELP |

| PCRECV |

The TERMINAL soft key line:

| T-NAME " | " | | | | | | HELP |

Fig. III-26 - The IN:TOUCH soft key lines used to manage
data calls.

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**INDEX** (cont)

## INDEX (cont)

*Master* IN:TOUCH™
*Diskette*

740004-000

**Hyperion**™