

_}__PPLASER_

-----}__ .po 1"

.tb .5" .9" 2.5" 3.5" 5.16"

.mt 1"

.pl 69

.hm 0.1666"

.fm 0.1666"

.mb .3333"

.rm 6.5"

.pm 0"

.lm .5"

.fo

.pg 1

____+____+++_-----TeleReplica Instruction Manual____v_+__-
+____+____

.tb .5" .9" 2.5" 3.75" 5.75"

.he ____v_+__-v_+__-____TeleReplica Instruction Manual_

_ __ö_ _

_ +_^ _

__#_

_ n

n(_

__Release 1.2_

.tb .5" .9" 2.5" 3.5" 5.16"

____+____+v_+__-____6_

-----1.1.1.1.1.1.1.1.1-----6__._

_ R_ä_ _

__What TeleReplica Will Do____v_+__-+____+____

.lh 0.08333"

.lh 0.16666"

__6_

-----1.1.1.1.1.1.1.1.1-----6_____

_ (_ä_ _

__TeleReplica áwill allow you to connect two IBM PC-compatible
computers átogether ávia ì

_

_ ä_ä_á_

__telephone lines and modems, and arrange for input to be
accepted from either keyboard, ì

_

_ ä_ä_á_

__and áfor áboth ádisplays áto appear identical. The ácomputer
áwhich áis árunning ánormal ì

-

- ä_ä_ä_

__programs is called the _host_ computer. The other computer
is called the _replica_ computer, ì

-

- ä_ä_ä_

__since its display is a replica of the host computer's
display.

.lh 0.08333"

.lh 0.16666"

__6_

-----1.1.1.1.1.1.1.1.1-----6-----

- (_ä_ _

__TeleReplica áwilll ádo a reasonable job of optimizing the
screen changes átransmitted, áso ì

-

- ä_ä_ä_

__that á(for example) moving a highlighted menu bar will
appear almost immediately áeven ì

-

- ä_ä_ä_

__at 1200 baud (provided the call is relatively local).

.lh 0.08333"

.lh 0.16666"

__6_

-----1.1.1.1.1.1.1.1.1-----6-----

- (_ä_ _

__TeleReplica áalways áupdates áthe áreplica computer's screen
to ámatch áthe á_current_ áhost ì

-

- ä_ä_ä_

__screen. áThis means that if several commands are issued
without waiting for áthe ádisplay ì

-

- ä_ä_ä_

__to ácatch áup, áthen áthe replica screen will be updated to
áshow áthe áfinal áhost áscreen, ì

-

- ä_ä_ä_

__without wasting time transmitting the intermediate screens.

.lh 0.08333"

```

.lh 0.16666"
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
-   (_ä_ _
__TeleReplica uses a password of up to 39 characters, which
means an intruder would á(on ì
-
-   ä_ä_á_
__average) átake millions of years at 2400 baud to guess a
well chosen password! Since áthis ì
-
-   ä_ä_á_
__password áis átransmitted áautomatically, there is no need
to keep it áshort áand áeasy áto ì
-
-   ä_ä_á_
__remember á- áonce TeleReplica is installed, you will never
need to áenter áthe ápassword ì
-
-   ä_ä_á_
__manually.
.lh 0.08333"

.lh 0.16666"
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
-   (_ä_ _
__TeleReplica will allow the host site to call the replica
site, or the other way around. áFor ì
-
-   ä_ä_á_
__consultants this means you can make your clients pay the
telephone bills!
.lh 0.08333"

.lh 0.16666"
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
-   (_ä_ _
__TeleReplica áwill automatically detect the baud rate being
used by the replica ácomputer, ì
-
-   ä_ä_á_

```

__and áset áthe host computer's baud rate to match. This means
that áusers áwith ádifferent ì

—
— ä_ä_á_
__speed modems can all access a single host.
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6____
— (_ä_ _
__TeleReplica áonly áuses about 8K of memory on the host
computer, which ámeans áthere ì

—
— ä_ä_á_
__should be enough memory left to run most applications.
.lh 0.08333"

.lh 0.16666"
____+____+v_+__-____6_
_____1.1.1.1.1.1.1.1_____6____.
— R_ä_ _
__What TeleReplica Will NOT Do____v_+__-+____+____
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6____
— (_ä_ _
__TeleReplica will not replicate graphics displays. If the
user at the replica computer áruns ì

—
— ä_ä_á_
__a áprogram áthat displays graphics, then the replica display
may show á(textual) ágarbage. ì

—
— ä_ä_á_
__Keystrokes áwill ástill be transmitted to the host computer,
but the user ámust áremember ì

—
— ä_ä_á_
__which keys are necessary to get out of graphics mode again!
TeleReplica gives a warning ì

—

```

_   ä_ä_ä_
__that ágraphics mode has been entered, but by then it is too
late to avoid it. However, áin ì

_
_   ä_ä_ä_
__an emergency TR can instruct the host computer to reboot, so
provided TRHOST is árun ì

_
_   ä_ä_ä_
__from AUTOEXEC.BAT this provides a means of recovery.
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6_____
_   (_ä_ _
__TeleReplica will only work with standard COM1 or COM2 ports.
Use of COM3, áCOM4, ì

_
_   ä_ä_ä_
__and all PS/2 ports is not supported.
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6_____
_   (_ä_ _
__TeleReplica áwill only work with a modem and modem cable
that provide _carrier ádetect_ ì

_
_   ä_ä_ä_
__and á_data terminal ready_ signals in addition to the
minimum _transmit data, áreceive ádata_ ì

_
_   ä_ä_ä_
__and _ground_ signals.
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6_____
_   (_ä_ _
__TeleReplica will cause bad "snowing" on some older CGA
display cards. No attempt áhas ì

_

```

```

_      ä_ä_á_
__been made to use the retrace intervals for screen memory
access.
.lh 0.08333"

.lh 0.16666"
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
_      (_ä_ _
__TeleReplica áwill slow down the normal operation of the host
computer. On áa á4.77MHz ì

_
_      ä_ä_á_
__PC performance can be halved; on a faster host the
difference will not be so noticeable.
.lh 0.08333"

.lh 0.16666"

____+____+v_+__-____6_
-----1.1.1.1.1.1.1.1.1-----6____.
_      R_ä_ _
__Why Use TeleReplica?____v_+__-+____+____
.lh 0.08333"

.lh 0.16666"
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
_      (_ä_ _
__Access to Local Area Network from Home_
.lh 0.08333"

.lh 0.16666"

_
_      ä_ä_ _
__TeleReplica will allow you to connect into your office
computer from home. This means ì

_
_      ä_ä_á_
__you ádo not need to take all your data files home with you,
and that you do not need áto ì

_
_      ä_ä_á_
__license additional copies of your software (since your home
computer is _not_ running áthe ì

```

```

-
-   ä_ä_ä_
__software, áonly replicating the screen of your office
computer). If your office ácomputer ì

-
-   ä_ä_ä_
__is ápart áof a local area network, then you automatically
have access to áall áthe ánetwork ì

-
-   ä_ä_ä_
__facilities from home._ __B_F__Å3_____ __
è.lh 0.08333"

.cp 6
.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6_____
-   (_ä_ _
___Software Support_

-
-   ä_ä_ _
__TeleReplica will allow you to take over your client's
computer, so that you can see áwhat ì

-
-   ä_ä_ä_
__is ágoing áwrong. áIn many cases this will avoid the need
for an áexpensive átrip áto áthe ì

-
-   ä_ä_ä_
__client's site.
.lh 0.08333"

.lh 0.16666"

.cp 6
____+____+v_+__-____6_
_____1.1.1.1.1.1.1.1_____6__._
-   R_ä_ _
__How to Install TeleReplica____v_+__-+____+____
.lh 0.08333"

.lh 0.16666"
__6_
_____1.1.1.1.1.1.1.1_____6_____
-   (_ä_ _

```

___Host Installation_

.lh 0.08333"

.lh 0.16666"

—

— ä_ä_ _

__To áinstall áTeleReplica áat áthe host computer, first ácopy
áthe áfiles: áTRHOSTIN.EXE, ì

—

— ä_ä_ä_

__TRHOST.EXE, áááTRPUT.EXE, ááTRGET.EXE, áááTRTALK.EXE,
áááTRCHECK.EXE, ì

—

— ä_ä_ä_

__TRKEY.EXE and TRDIAL.EXE into a directory (say \TR) on the
host computer. áThen ì

—

— ä_ä_ä_

__enter the command: TRHOSTIN

.lh 0.08333"

.lh 0.16666"

—

— ä_ä_ _

__Your display should show a menu similar to:

.lh 0.08333"

____+____Dv_+__-____

.cp 6

.lh 0.16666"

—

— ä_ä_ _

__TeleReplica Host Installation Program

.lh 0.08333"

.lh 0.16666"

—

— ä_ä_ _

— +_T_ _

__0. Save changes and leave installation program

—

— ä_ä_ _

— +_T_ _

__1. Select serial port (currently COM1)


```

-      ä_ä_ _
-
---
-     +_T_ _
__2. Change password (currently "password")
-
-      ä_ä_ _
-
---
-     +_T_ _
__3. Change modem initialization string (currently:
-
-      ä_ä_ _
-
---
-     +_T_ _
__      "\ratz\r\D1000.ata\r")
-
-      ä_ä_ _
-
---
-     +_T_ _
__4. Change modem dialing format string (currently:
-
-      ä_ä_ _
-
---
-     +_T_ _
__      "atdt %s\r")
-
-      ä_ä_ _
-
---
-     +_T_ _
__5. Select maximum baud rate (currently 2400)
-
-      ä_ä_ _
-
---
-     +_T_ _
__6. Abandon changes
.lh 0.08333"

.lh 0.16666"
-
-      ä_ä_ _
__Selection:
.lh 0.08333"
-----v+__-+-----D-----
.lh 0.16666"
-

```

```

_   ä_ä_ _
__Consider each of these options in turn:

__6_
-----1.1.1.1.1.1.1-----6-----
_   V_ä_ _
__Select Serial Port
.lh 0.08333"

.lh 0.16666"

_   ä_ä_ _
__Another menu will appear:
.lh 0.08333"
----+----Dv_+---
.lh 0.16666"

_   ä_ä_ _
__TeleReplica Host Program Serial Port Selection
.lh 0.08333"

.lh 0.16666"

_   ä_ä_ _
----
_   +_T_ _
__0. No change

_   ä_ä_ _
----
_   +_T_ _
__1. COM1 port (base 0x03f8, interrupt 0x0c)

_   ä_ä_ _
----
_   +_T_ _
__2. COM2 port (base 0x02f8, interrupt 0x0b)

_   ä_ä_ _
__Selection:
.lh 0.08333"
----v_+---+-----D----
.lh 0.16666"

_

```

```

_   ä_ä_ _
__Only áthe átwo standard serial ports are currently
supported. Simply choose áone áor áthe ì

_
_   ä_ä_á_
__other!

__6_
_____1.1.1.1.1.1.1_____6_____
_   V_ä_ _
__Change Password
.lh 0.08333"

.lh 0.16666"

_
_   ä_ä_ _
__The string editing menu will appear:
.lh 0.08333"
____+____Dv_+__-____
.lh 0.16666"

_
_   ä_ä_ _
__TeleReplica Host Program Password Selection
.lh 0.08333"

.lh 0.16666"

_
_   ä_ä_ _
__Edit existing string:

_
_   ä_ä_ _
__password
.lh 0.08333"
____v_+__-+____D____
.lh 0.16666"

_
_   ä_ä_ _
__Whenever you see the____+____Dv_+__-____ Edit existing
string: ____v_+__-+____D____prompt, you can use the left and ì

_
_   ä_ä_á_
__right áarrow ákeys to move the cursor through the string,
and the backspace áand ádelete ì

_
_   ä_ä_á_

```

```

__keys áto ádelete ácharacters to the left of or under the
cursor árespectively. áAny ánormal ì
-
-   ä_ä_á_
__characters you type will be inserted at the cursor position.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__You will not be able to enter more than the maximum allowed
number of characters áfor ì
-
-   ä_ä_á_
__any string.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__Since áyou áwill only need to enter the password twice
during installation, and ánever áin ì
-
-   ä_ä_á_
__normal áuse, áit is recommended that you make the password
near the ámaximum álength ì
-
-   ä_ä_á_
__and quite random. The main thing is that no-one should have
any chance of guessing the ì
-
-   ä_ä_á_
__password.
- __+_G__09_____
è.cp 4
__6_
_____1.1.1.1.1.1.1_____6_____
-   V_ä_ _
__Change Modem Initialization String
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _

```

```

__The string editing menu will appear again, this time asking
for the modem initialization i

-
-   ä_ä_ä_
__string. äThis ästring äis ätransmitted äto the modem äat
äthe ämaximum äbaud ärate äwhen i

-
-   ä_ä_ä_
__TRHOST runs for the first time. If you are using an
automatic power switch that powers i

-
-   ä_ä_ä_
__up the host computer when the telephone starts ringing, then
the initialization string may i

-
-   ä_ä_ä_
__need äto äanswer the phone. There may also be various
operating modes äthat äcannot äbe i

-
-   ä_ä_ä_
__stored permanently in your modem's non-volatile memory, and
which must therefore äbe i

-
-   ä_ä_ä_
__established äeach time TRHOST starts. In many applications,
where nothing needs to äbe i

-
-   ä_ä_ä_
__changed, this string may be blank.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__You äwill probably need to refer to the instruction manual
for the host modem äto äwork i

-
-   ä_ä_ä_
__out what if anything is required.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _

```

--As well as normal characters, you may need to include some special characters such as ì

-- ä_ä_ä_
__carriage return. Carriage return can be encoded as \r (see the main menu in section 4.1). ì

-- ä_ä_ä_
__Alternatively, any character can be entered in hexadecimal as \0x followed by two hex ì

-- ä_ä_ä_
__digits (for example, carriage return is \0x0D).
.lh 0.08333"

.lh 0.16666"

-- ä_ä_ _
__It may also be necessary to include some kind of delay. For example, some modems go ì

-- ä_ä_ä_
__off into a world of their own for a second or so after a reset command. Delays are ì

-- ä_ä_ä_
__entered in milliseconds as \D followed by the delay (for example, \D1000. [1 second] or ì

-- ä_ä_ä_
__\D500. [half a second]). Delays are only accurate to the nearest 1/18th of a second, so ì

-- ä_ä_ä_
__the number you enter may be modified slightly to reflect the nearest possible actual ì

-- ä_ä_ä_
__delay.

.cp 6

--6_

-----1.1.1.1.1.1.1.1-----6-----

-- V_ä_ _

--Change Modem Dialing Format String

.lh 0.08333"

.lh 0.16666"

—
— ä_ä_ _
__This ástring ádetermines what TRDIAL will send to the modem
to dial áa ánumber. áThe ì

—
— ä_ä_á_
__usual áuse áof áTRDIAL will be something
like____+____Dv_+__-____ TRDIAL á221166,____v_+__-+____D____ áso
ánormally áthe ì

—
— ä_ä_á_
__dialing áformat ástring áshould contain a %s to insert the
number. áFor áexample, áif áthe ì

—
— ä_ä_á_
__dialing string is "atdt %s\r" and the user enters the
previous dialing command, then what ì

—
— ä_ä_á_
__will be sent to the modem is "atdt_221166\r".
.lh 0.08333"

.lh 0.16666"

—
— ä_ä_ _
__Alternatively, if only one number is required, then the
dialing format string may contain ì

—
— ä_ä_á_
__the actual number, in which case the user will only need to
enter TRDIAL by itself.

__6_
-----1.1.1.1.1.1.1.1.1-----6-----

— V_ä_ _
__Select Maximum Baud Rate
.lh 0.08333"

.lh 0.16666"

—
— ä_ä_ _
__Another window will appear:

```

.lh 0.08333"
____+____Dv_+__-____
.lh 0.16666"

-
-   ä_ä_ _
__TeleReplica Host Program Maximum Baud Rate Selection
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__Enter baud rate:
.lh 0.08333"
____v_+__-+____D____
.lh 0.16666"

-
-   ä_ä_ _
__You áshould áenter áthe maximum baud rate that the host
modem áis ácapable áof áusing. ì

-
-   ä_ä_á_
__Usually áthis will be 1200, 2400 or 9600. Note that TRHOST
can automatically adjust áto ì

-
-   ä_ä_á_
__half áthis baud rate, a quarter of this baud rate, or one
eighth of this baud rate. Thus áif ì

-
-   ä_ä_á_
__you áchoose á2400 baud, TRHOST will be able to work at 2400,
1200, 600 or á300 ábaud ì

-
-   ä_ä_á_
__(provided the host modem can handle these speeds).

__6_
_____1.1.1.1.1.1.1.1_____6_____
-   V_ä_ _
__Abandon Changes
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _

```


--If you have made a mistake, or if you only wanted to see what the current settings were, i

-

- ä_ä_ä_

--then this option allows you to quit without making any changes.

--6_

-----1.1.1.1.1.1.1.1.1-----6-----

- V_ä_ _

--Save Changes and Leave Installation Program

.lh 0.08333"

.lh 0.16666"

-

- ä_ä_ _

--This äis äthe änormal äway to exit this program when you ähave ämade äall äthe ärequired i

-

- ä_ä_ä_

--changes. ääThe äärelevant ääfiles ää(TRHOST.EXE, ääTRGET.EXE, ääTRPUT.EXE äääand i

-

- ä_ä_ä_

--TRDIAL.EXE) will all be modified appropriately.

--6_

-----1.1.1.1.1.1.1.1.1-----6-----

- (_ä_ _

___Replica Installation_

.lh 0.08333"

.lh 0.16666"

-

- ä_ä_ _

--To äinstall TeleReplica at the replica computer, first copy the files: äTR.EXE, äTR.HLP, i

-

- ä_ä_ä_

--and TR.TR into a directory (say \TR). Then use a text editor (such as DTE) to edit äthe i

-

- ä_ä_ä_

--file TR.TR. This file should look something like:

.lh 0.08333"

```

.cp 4_ _D_E_09_____
è.lh 0.16666"

--
_   ä_ä_ _
---
_  +_T_ _
__TeleReplica Configuration File
-
_   ä_ä_ _
---
_  +_T_ _
__Note: Do NOT change the order of these parameters, or delete
any lines!
.lh 0.08333"

.lh 0.16666"

-
_   ä_ä_ _
__"COM1"_
_   >
ö_ _
__Communications port (COM1 or COM2)
-
_   ä_ä_ _
__2400_
_   ÿ_T_ _
---
_   @_ö_ _
__Baud rate (normally 300, 1200, 2400, or 9600)
-
_   ä_ä_ _
__"COMSPEC"_
_   __ö_ _
__Path for DOS Command Interpreter (or "COMSPEC")
-
_   ä_ä_ _
__07_
_   +_T_ _
---
_   @_ö_ _
__Attribute for normal text (such as help screen)
-
_   ä_ä_ _
__47_

```

```

_      +_T_ _
----
_      @_ö_ _
__Attribute for file transfer monitoring [70 for Hercules]
_
_      ä_ä_ _
__4F_
_      Ÿ_T_ _
----
_      @_ö_ _
__Attribute for pop-up window text
_
_      ä_ä_ _
__"trput %s\_r"_
_      Ä_ö_ _
__Host command to send (download) files
_
_      ä_ä_ _
__"trget\_r"_
_      '
_      ö_ _
__Host command to receive (upload) files
_
_      ä_ä_ _
__"trtalk\_r"_
_      +      ö_

__Host command to start "talk" session
_
_      ä_ä_ _
__440_
_      2_T_ _
----
_      @_ö_ _
__Frequency of "bell" tone (Hz)
_
_      ä_ä_ _
__100_
_      2_T_ _
----
_      @_ö_ _
__Duration of "bell" tone (ms)
_
_      ä_ä_ _
__128_

```

```

_      2_T_ _
----
_      @_ö_ _
__Block size for file upload (1-256)
_
_      ä_ä_ _
__4_
_      F_T_ _
----
_      @_ö_ _
__Number of block buffers for upload (1-8)
_
_      ä_ä_ _
__"NO"_
_      1_T_ _
----
_      @_ö_ _
__Send "break" in response to framing error? (YES/NO)
_
_      ä_ä_ _
__111_
_      2_T_ _
----
_      @_ö_ _
__Length of "break" (ms)
_
_      ä_ä_ _
__4000_
_      ĩ_T_ _
----
_      @_ö_ _
__Time to wait before giving up transfer (ms)
_
_      ä_ä_ _
__2000_
_      ĩ_T_ _
----
_      @_ö_ _
__Time to wait for first char before timeout (ms)
_
_      ä_ä_ _
__500_
_      2_T_ _
----
_      @_ö_ _

```

```

__Time to wait for subsequent chars in block (ms)
-
-   ä_ä_ _
__"password"_
-   __ö_

__Password to log in to host computer
-
-   ä_ä_ _
__"atdt 123 456\_r"_
-   x_ö_ _
__Connect command for modem
-
-   ä_ä_ _
__"\_D1000.+++\_D1000.ath0\_r"_
-   V_ö_ _
__Disconnect command for modem
.lh 0.08333"

.lh 0.16666"
-
-   ä_ä_ _
---
-   +_T_ _
__Each of the remaining lines must contain 3 strings and a
number.
-
-   ä_ä_ _
---
-   +_T_ _
__The first string is the trigger string to search for.
-
-   ä_ä_ _
---
-   +_T_ _
__The second string is the response to be sent after finding
the trigger.
-
-   ä_ä_ _
---
-   +_T_ _
__The third string is the response to be sent after timeout.
-
-   ä_ä_ _
---
```

```

_      +_T_ _
__The number is the time to wait before timeout (in ms).
.lh 0.08333"

.lh 0.16666"
.tb .5"  2" 3.5" 5"

_
_      ä_ä_ _
__"RING"_

_      ----
__"ata_\_r"_
_      å_f_ _
__" "_
_      +      (#
__10000_
.lh 0.08333"

.lh 0.16666"

_
_      ä_ä_ _
__Most of these parameters will not need to be changed. The
serial port (COM1 or COM2) i

_
_      ä_ä_ä_
__and áthe ábaud árate should be set appropriately for the
áreplica ácomputer áand ámodem. i

_
_      ä_ä_ä_
__Video áattributes áare two hexadecimal digits: the first is
the background color, áand áthe i

_
_      ä_ä_ä_
__second áis áthe foreground color. The password must be
changed to match áthe ápassword i

_
_      ä_ä_ä_
__installed in TRHOST at the host computer. The connect
command for the modem is sent i

_
_      ä_ä_ä_
__when TR starts running, and the disconnect command is sent
when TR terminates.
.lh 0.08333"

.lh 0.16666"

```

```

-
-   ä_ä_ _
__The ámodem ácommand strings here have the same format as
those described áabove áfor ì

-
-   ä_ä_á_
__the áhost ácomputer áinstallation. However, make sure you
leave áthe ádouble áquotes á(") ì

-
-   ä_ä_á_
__around each string!
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__The áautomatic response strings at the end of the file can
be used to respond áto ámodem ì

-
-   ä_ä_á_
__status messages. For example, if the replica computer's
modem is not set to auto-answer, ì

-
-   ä_ä_á_
__then áTeleReplica ámay áneed áto árespond to a "RING"
ámessage áfrom áthe ámodem áby ì

-
-   ä_ä_á_
__answering the 'phone.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__Please note that since this file contains the password,
anyone who obtains a copy of áthis ì

-
-   ä_ä_á_
__file can access the host computer!
.lh 0.08333"

.lh 0.16666"

____+____+v_+__-____6_
-----1.1.1.1.1.1.1-----6__._

```

_ R_ä_ _
__How to Use TeleReplica____v_+__-+____+____
.lh 0.08333"

.lh 0.16666"

_ ä_ä_ _
__The áfollowing áinstructions áassume that TeleReplica has
ábeen ácorrectly áinstalled á(see ì

_ ä_ä_á_
__section 4).

__6_
-----1.1.1.1.1.1.1.1-----6-----

_ (_ä_ _
__Host Computer_
.lh 0.08333"

.lh 0.16666"

_ ä_ä_ _
__First árun áthe TRHOST program. If the replica computer is
to áoriginate áthe átelephone ì

_ ä_ä_á_
__call, this is all that is necessary.
.lh 0.08333"

.lh 0.16666"

_ ä_ä_ _
__If the host computer is to originate the call, then use the
command:

_ ä_ä_ _
--- ì
_ ì
-- -
-----+-----Dv_+__-___TRDIAL____v_+__-+____D____

_ ä_ä_ _
__or

_ ä_ä_ _


```

----
_   î
--  -
-----+-----Dv_+___-___TRDIAL number____v_+___-+____D____
_|_C___09_____
è_
_   ä_ä_ _
__depending on how the dialing format string was installed.
.lh 0.08333"

.lh 0.16666"

_   ä_ä_ _
__Once áTRHOST áis áresident and the call is established, the
host computer ácan ábe áused î

_   ä_ä_á_
__normally. The only difference is that everything that
appears on the screen is also ábeing î

_   ä_ä_á_
__replicated on the replica computer's screen.
.lh 0.08333"

.lh 0.16666"

_   ä_ä_ _
__The only way to remove TRHOST from memory is to reboot the
host computer.

.cp 6
__6_
-----1.1.1.1.1.1.1.1.1-----6-----
_   (_ä_ _
___Replica Computer_
.lh 0.08333"

.lh 0.16666"

_   ä_ä_ _
__Use the command:

_   ä_ä_ _
----
_   î

```

```

-- -
-----+-----Dv_+__-___TR_____v_+__-+-----D-----
_      $      £_
__[use TR.TR configuration file]

-
_      ä_ä_ _
__or

-
_      ä_ä_ _
---
_      î

-- -
-----+-----Dv_+__-___TR _____v_+__-+-----D_____filename__
_      h_£_ _
__[use _filename_.TR configuration file]
.lh 0.08333"

.lh 0.16666"

-
_      ä_ä_ _
__If the replica computer was to originate the call, then the
modem initialization string ain î

-
_      ä_ä_ä_
__the configuration file will usually include a dial command
to call the host computer.
.lh 0.08333"

.lh 0.16666"

-
_      ä_ä_ _
__If áthe host computer was to originate the call, then the
initialization string may ácontain î

-
_      ä_ä_ä_
__an áanswer 'phone_ command. Note that in this case it is
important that the áTR áprogram î

-
_      ä_ä_ä_
__not ábe árun áuntil áafter áthe áphone starts áringing!
á(Alternatively, áthere ámay ábe áno î

-
_      ä_ä_ä_
__initialization ástring, but instead there may be a trigger
string to respond to RING áfrom î

```

```

-
-   ä_ä_ä_
__the modem.)
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__If áthe áconfiguration file contains no modem initialization
string, then the áuser áat áthe ì

-
-   ä_ä_ä_
__remote ácomputer can enter modem commands manually. This may
be convenient áfor áa ì

-
-   ä_ä_ä_
__consultant wishing to dial many different clients.
.lh 0.08333"

.lh 0.16666"

-
-   ä_ä_ _
__Once áboth áTR áand áTRHOST áare running and áconnected áto
áeach áother, áthey áwill ì

-
-   ä_ä_ä_
__automatically adjust the host computer's baud rate and the
host computer will check áthe ì

-
-   ä_ä_ä_
__password provided by the replica computer. Provided the
password is correct, the replica ì

-
-   ä_ä_ä_
__computer áwill áeffectively ábe able to take over the host
computer, áor áalternatively áto ì

-
-   ä_ä_ä_
__observe áwhatever áthe host computer is doing. Any key typed
on the áreplica ácomputer ì

-
-   ä_ä_ä_
__will ábe áacted áupon áby áthe host computer, and áanything
áthat áappears áon áthe áhost ì
-

```

```

_   ä_ä_ä_
__computer's screen will also appear on the replica computer's
screen.
.lh 0.08333"

.lh 0.16666"

_
_   ä_ä_ _
__It äis äsometimes necessary to execute a command on the
replica äcomputer, ärather äthan ì

_
_   ä_ä_ä_
__transmitting äthe keystroke to the host computer. This is
achieved by holding ädown äleft ì

_
_   ä_ä_ä_
__shift, äright äshift, äctrl and alt all at the same time.
When you do this a list äof äall äthe ì

_
_   ä_ä_ä_
__possible commands will be displayed, and you can then type
the required command key:
.lh 0.08333"

.lh 0.16666"
.tb .5" 1.2"
.lm 1.2"

_
_   ä_ä_ _
___F3___
_  +_p_ _
__start a "talk" session, where what is typed at the host
computer is displayed äin ì

_
_   p_p_ä

```

--the átop áhalf áof áthe screen, and what is typed áat áthe
áreplica ácomputer áis ì

--

-- p_p_á

__displayed áin áthe bottom half of the screen. This is useful
for carrying áon áa ì

—

— p_p_á

```
__"conversation" with the user at the other end.
-
-      ä_ä_ _
___F4___
-     +_p_ _
__end a "talk" session
-
-      ä_ä_ _
___F8___
-     +_p_ _
__reboot the host computer (useful if host computer "hangs"
for any reason, ábut ì
-
-      p_p_á
```

```

__make sure TRHOST is run from AUTOEXEC.BAT!)
-
-   ä_ä_ _
___F9___
-   +_p_ _
__send break, restart session [use this if TeleReplica locks
up - very rare!]
-
-   ä_ä_ _
___F10___
-   *_p_ _
__exit TeleReplica [optionally shell out and return later]
-
-   ä_ä_ _
___Home___
-   F_p_ _
__refresh display from HOST [use this if a bad 'phone line
messes up the screen]
-
-   ä_ä_ _
___PgUp___
-   X_p_ _
__upload file using DMP protocol [transfer file(s) from
replica to host]
-
-   ä_ä_ _
___PgDn___
-   ^_p_ _
__download file using DMP protocol [transfer file(s) from host
to replica]
.lm .5"
.lh 0.08333"

.lh 0.16666"
-
-   ä_ä_ _
__Note that before starting a "talk" session or performing a
file transfer, the host computer ì
-
-   ä_ä_á_
__must ábe at the DOS prompt, and TRTALK.EXE, TRGET.EXE and
TRPUT.EXE ámust ì
-
-   ä_ä_á_

```


__be accessible in the current path.

.lh 0.08333"

.lh 0.16666"

—

— ä_ä_ _

__If a file transfer needs to access a file in another directory, it may be convenient to shell ì

—

— ä_ä_ä_

__out áof áTR, change directories, and then exit from DOS back into TR to ástart áthe áfile ì

—

— ä_ä_ä_

__transfer. However, TR will not transmit any drive or path that you specify.

.lh 0.08333"

.lh 0.16666"

____+____+v_+__-____6_

_____1.1.1.1.1.1.1.1_____6__._

— R_ä_ _

__TeleReplica Utility Programs____v_+__-+____+____

.lh 0.08333"

.lh 0.16666"

__6_

_____1.1.1.1.1.1.1.1_____6_____

— (_ä_ _

___TRCHECK_

.lh 0.08333"

.lh 0.16666"

—

— ä_ä_ _

__TRCHECK checks to see if the current time is within a specified range, and returns the ì

—

— ä_ä_ä_

__DOS áerrorlevel áset to 0 if within the range and 1 if outside the árange. áThe áfollowing _

__D_E___09_____ìè_

— ä_ä_ä_

__code might appear in an AUTOEXEC.BAT file on a host computer:

____+____Dv_+__-____

_ ä_ä_ _

_ __p_ _

__trcheck 9:00:00 17:00:00

_

_ ä_ä_ _

_ __p_ _

__if errorlevel 1 goto runTR

_

_ ä_ä_ _

_ __p_ _

__goto done

_

_ ä_ä_ _

_ __p_ _

__:runTR

_

_ ä_ä_ _

_ __p_ _

__trhost

_

_ ä_ä_ _

_ __p_ _

__:done____v_+__-+____D____

_

_ ä_ä_ _

__The äeffect äof this is to first check to see if the time is between 9AM and 5PM. äIf äso, ì

_

_ ä_ä_ä_

__then äerrorlevel äis äset to 0, and nothing further happens. However, if the ätime äis änot ì

_

_ ä_ä_ä_

__between 9 and 5, then trhost will be run.

.lh 0.08333"

.lh 0.16666"

—
— ä_ä_ _
__This has proved valuable when TRHOST must run on an office
computer outside normal ì

—
— ä_ä_ä_
__working hours, but the computer must be used normally during
the day.

.lh 0.08333"

.lh 0.16666"

__6_
-----1.1.1.1.1.1.1-----6-----

— (_ä_ _
___TRKEY_

.lh 0.08333"

.lh 0.16666"

—
— ä_ä_ _
__TRKEY áchecks áto see if a key has been pressed. This is
useful when a ácomputer áwill ì

—
— ä_ä_ä_
__usually ábe used as a TeleReplica host, but sometimes must
be used locally. Rather áthan ì

—
— ä_ä_ä_
__having ááto áboot áfrom áa ádifferent ádisk, áthe áfollowing
ácode ámight áappear áin ááan ì

—
— ä_ä_ä_
__AUTOEXEC.BAT file on a host computer:

----+----Dv_+-------

— ä_ä_ _

— __P_ _

__trkey

—

— ä_ä_ _

— __P_ _

__if errorlevel 1 goto done

-
- ä_ä_ -

- __p_ -
__trhost

-
- ä_ä_ -

- __p_ -
__:done____v_+__-+____D____

-
- ä_ä_ -

__The effect of this is to run TRHOST only if no key has been
pressed. If a user is at áthe ì

-
- ä_ä_á_

__computer and presses a key then TRHOST will not be loaded.