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    How to build a BLACK BOX
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To all who dare --

     What is a BLACK BOX?   A BLACK BOX is   a device that is hooked up to   your
fone   that fixes your fone so that when you get a call,   the caller doesn't get
charged for the call.   This is good for calls   up to 1/2 hour,
after 1/2   hour
the Fone Co.   gets suspicious, and then you can guess what happens.

The way it works:

     What   this little beauty   does   is keep the line voltage from dropping   to
10v   when   you answer your   fone.   The line is insted kept at 36v and it   will
make   the   fone think that it is   still ringing while your talking.   The reason
for the 1/2 hour time limit is that the Fone CO. thinks that something is wrong
after 1/2 an hour of ringing.

All   parts   are   available   Radio Shack.
 Using the least possible parts
and arangement,   the cost is $0.98 !!!! And   that   is   parts for two   of   them!
Talk   about   a deal!   If you   want   to splurge   then   you can get a   small   PC
board,
and   a switch.
 There are   two schematics   for this box,   one
is   for
most   normal fones.   The second one is for   fones   that don't   work   with   the
first.
It was made for use with a Bell Trimline touch tone fone.

       **   Schematic 1 for most fones   **

       **
LED ON: BOX ON   **

    FROM >--------------------GREEN->   TO

    LINE >--!
1.8k   LED   !---RED--> FONE

    !--/\/\/\--!>--!

    !

    !

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SPST

Parts:

1 1.8k 1/2 watt resistor

1 1.5v LED

1 SPST switch

You   may just have two wires which   you connect together for the switch.

        **   Schematic 2 for all fones   **

        **
LED ON: BOX OFF   **

        FROM >---------------GREEN->   TO

        LINE >-------   ---RED--> FONE

!   LED !

    -->/<--!>--

        !
          !

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         ---/\/\---
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 1.8k

Parts:
1 1.8k 1/2 watt resistor

1 1.5v LED
        1 DPST switch

     Here is the PC board layout that I recommend   using.   It
is neat and   is
very easy to hook up.

         Schematic #1
     Schematic #2

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      *
  *   -------
  *



         * --<LED>--- *
   *   !
     !
   *
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```
        * !
 ! *
  *  ! <SWITCH>
 *


        * RESISTOR ! *
 *  ! !         !
 *


        *          ! ! *
 *  ! !        /
 *


        * -------- ! *
 *  ! !        \
 *


        * !
 ! *
  *  ! <LED>! /
 *


        * --SWITCH-- *
  *  !
    ! \
 *


        *  !
 !  *
  *  !
    ! /
 *


     L *  !
 !  * F L *  !
    ! !
 * F
```

```
   I>RED-
-RED>O I>RED-
   ---RED>O


   N>-----GREEN---->N N>-----GREEN------>N


   E * h
  * E E *

* E


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Once you have hooked up all   the parts,   you must figure out what set of
wires   go to the line and which   go   to the fone.   This is because of the fact
that LED's must be put in, in a certain direction.   Depending   on which way you
put the LED is what controls what wires are for the line & fone.

How to find out:

Hook   up the box in one   direction using one set of wires for line and the
other for fone.

NOTE
For Model I switch should be OFF.
NOTE
For Model][switch   should   be set to side connecting the led.

Once   you have hooked it up,   then pick up the fone and see if the LED   is
on.   If it is, the LED will be lit.   If is   doesn't light then switch the wires
and try again.
Once you know which are which   then label   them.   *NOTE*   - If
neither   directions   worked   then   your switch was in the wrong position.   Now
lable
the   switch   in   its
current position as BOX ON.

How to use it:

The purpose of this box is not   to poeple

who   call you so it would   make sence   that   it   can only   be   used   to receive! calls.   When the box is   *ON* then you may only recieve calls.   Your fone will ring like normal and the   LED on   the box will flash.   If you answer the fone now, then the LED will light and the caller will not be charged. Hang   up   the fone after you   are   done talking like normal.   You will not   be able   to   get a dial-tone or call   when the   box is on,   so turn the box   *OFF* for   normal calls.   I don't   recommend that you leave it on all the   time,   as you don't want it to answer when Ma Bell calls!