Subscriptions: \$15 / 6 lasures

The Cyberpunk Technical Journal

The RS-232 Data Tap

When this divides is hooked up to an RS-232 in the seture to the Trea of DC, if it if it is eat all data on that line tax eith first date mind, as risk printer, or B2-322 equipped computer. While it daes have a set of the setup of the setu

When one uses this device, one must knew the bour rist, and communications paremeters (very length, also bits, partity) of the RS-282 link you are severationing on. You should also be severed only farminal amulation that is being used. For example, RDC 197-528, YT-1008, and YT-202 and special character sequences to clear the screen, position the cursor, and do other display functions. While you vill receive the basic data before set.

offil receive "gerbage" on the sereen when those control sequences are sent. The easiest way to determine the terminal emulation to aimply check the terminal on the RS- 232 link you are several repringing the control of the resident of th

For those of you who are now worried about the possibility of someone exvesdroping on your RS-232 links. I aussest either encrypting them, or using some non-standard system to hook your terminals up to your computer system. Warg and 1874 use cex-cable to hook up their terminals, which is a little harder to tap than 625 – 232. Thors 195 – 232 terminals cable whose field to work with fiber optic cable which is probably are severe as you could get. (Although

Issue

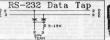
se molette ta sours vitti fraer optic casis viticals is probablig as sever es qui could get. (Although remember that nothing is ever totally severe.)
You could also modify queri eraminals as that vive unused priso on goor terminals 08-25 contector are contected feptime. One than use these resourced allow months galls as close to the contector of the common castle, as close to the contector of the common castle, as close to contector is install. In the gall open circuit contidion results and the alarm goes off. Of course impretting connections to see if another to the course of th

course, inspecting connections to see if anything well of so in them will do all to help keep 85–232 (and any other type) tips off goer system. Another simple thing you can do would be to remark the second of the

fector would add too much of a risk for most

Corresponding lines become
N.C. dirouit hooked into

Sustan Armaultan Artista 1775 - Annual Armaultan Armault



people. The use of non-stendard connectors on your RS-232 link will add even more confusion.

Anywey, thanks go to John Williams of Consumertronics for his essistance with this project

The Squealer by Thomas Icom

A squealer is a nickname for a handhald audio tone generator, also known to phoi.e phreaks as a "Pink Box". A squealer is usually able to generate an audio tone anywhere from 20 hz up to 30-40 Khz. Squealers are

very versatle devices having many applications for the technological enthusiast or survivalist.

A squeeler can be used as a tone signaling unit for quick and dirty remote control operations. It can used by itself for limited range R/C functions, similar to "the clapper" remote control device. A good squeler design will be capable of outputting a eudio signal up to 90db in loudness. That's about equal to a person yelling. How far can you yell? That's a bit further than the distance one can reliably activate an R/C device with a squealer. Ambient noise in the area will reduce range however, and if the ambient noise's frequency is close to your device's you might get an accidental activation. For added range and reliability, one can use it over a radio or phone link.

"Also in the R/C application realm, a squealer can be used to replace lost ultrasonic remote control units used in many older TVs. It also makes the employment of sound activated accessories such as "The Clapper" easier.

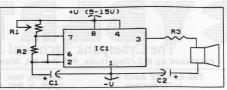
One can use a squealer to test audio equipment, and for locating specific wires in a cable bundle.

A squealer can be used as a revenge-type device. When set to the high-end of a person's hearing range (15 Khz. or so) it will cause headaches, nausea, and irritability. It will also be impossible to locate when hidden

A squealer can also be used to chase off rodents, bats, insects, and dogs. When set to ultrasonic frequencies (above 20 Khz.), it will be totally annoying to these creatures, who will

not want to stay around it.

Two squalers set at different ultrasonic frequencies will jam any hidden microphone in the area they are operating. The surveillance technician will hear a tone; the frequency of which will be equal to the difference of the two squealers frequencies. When applying the squaler in this role, it would be a good idea to sweep the output frequency of the two squealers, and do so at different rates for each unit. This will help prevent a surveillance technician from filtering out the noise.



Any good audio oscillator circuit can be used as a squealer. The schematic in this article uses a 555 timer IC as the heart of the circuit. The 555 is inexpensive and available at Radio Shack. Other ICs that can be used are the ICL8038 and XR2207. Optionally, you might also want to add an audio amplifier circuit to your squealer for a greater power output.

Since the audio output characteristics of a "stock" squeeler are somewhat low, a high efficiency speaker is almost a must. Typical of a good speaker is the Redio Shack #275-091. It is capable of high output with a minimal amount of drive power. This speaker will output a 90db sound level with the circuit in this article.

Parts List

IC1 - 555 Timer IC

R1 - 10 Meg Ohm Potentiometer

R2 - 1K Ohm Resistor

R3 - Optional Volume Control Resistor,

10-1000 Ohms C1 - .05 ufd Capacitor

C2 - 4.7 ufd Capacitor

Frequency Determination Formula:

Tone Sequencer 1.0 by Nick Haffinger

Tone sequencer is a program that, with an IBM computer with an AdLib-compatible (te SoundBlaster or SoundBlaster Pro) sound card, will allow you to create sequences of tones (up to nine at a time). Tone Sequencer was written in Turbo Pascal 6.0, however it should compile with modifications to only the driver file in version 4.0 or greater.

Three source files exist. They are

DRIVED PAS, SIQUENCE PAS, and DIALES PAS. DRIVED PAS must be compiled first. Compile it with that PTC command-line compiler og Isping PTC DRIVER, with TPC is guer path and DRIVER is guer current directory. Once you have done this with the driver, you may compile SEQUENCE PAS and DRILER PAS in the same manner.

DRIVER is simply an FM-Sound driver for the Adiab that allows you to play pure tones at frequenties of your choice. The difference from the speaker in your IBM-clone is that the speaker in your machine cost do only one votes at time. DRIVER, with a sound board, can 69 simultaneous tone. This is important because the Phone Company uses DTMF tanes, which are two simultaneous tones at different fragmanties.

SQUINCE is the tore assumers. It allows gui to create simple mecrons force that spous as just the UP to 10 percent and the total part 100 percent and the UP to 100 percent and UP to 100 percent an

red-box today.

When the first of any probably throw what or est box is, but for those who don't, hern's a brief any instantion. When the first of any probably throw what or est box is, but for those who don't, hern's a brief any instantion probably the probably through the probabl

military does.

No that you can generate the tones, the question becomes what to do with them. I support that you obtain a decent minicosector recover; that has an interpolane just which can be plugged directly inche as sound better. If you with it makes a period cell, you can exerce, using other SCURIC or DALLY to a count obest. If you with it makes a period cell, you can exerce, using other SCURIC or DALLY to what you can be the second obest. If you have the makes a contract of the second obest. If you can be supported to a large place you want to use Colemanter — SMIT(S_VTC_DITCS_TOTAL_TOTA

Other uses for the lones are possible, of ourse. You can write, using DRIVER, a phoreteck program that will dial for you through the sound board, for exemple. There are many devices which use on-phone force, and you can generate these as well. If you want to access your vecte-mail number, you could program in macros for disting your number, and other peoples numbers as well.

DRIVER was written out of a folical desire to want to accome me \$100 aund beard without

SEQUENCE PAS

{Tote-securing program for Ad. b/SoundSlaster compatible sound boards by Nick Hafflinger for Cybertek magazine) PRODRAM tane_securiner (Input, output, datafile);

USES ort, driver: (Standard PC functions and Adult driver)

TYPE
functions = (play, wall, stop, fune, term); (The allowable functions)
than = RECORD
CAST them: functions OF
play : (woise, tone : NYESDER);
wall : (time : NYESDER);

FOR EDUCATIONAL PURPOSES ONLY

stop : (channel : INTEGER): func : (macnum : INTEGER) : END: (item record) macro = ARRAY [1..100] OF storage = RECORD macr : ARRAY [1..100] 0

macro: name : ARRAY [1..100] OF STRING [20]:

END; (storage record) data = FILE OF

storage:

VAR macros : storage: datafile : data :

The Omega Man presents: Home Defense Made Easy!

Don't try this at home, kids.

Making Your Own Claymore Mines (For educational purposes only, of course)

Claymore mines are easy to make, and devastatingly effective pieces of weaponry. All that is required is an openended container of some sort, some high explosive, a detonator. and something to use as shrapnel. You put the high explosive in the container, put the shrapnel on top, and when you're ready to deploy your new toy, put the open end towards the area you want to mess up, and insert the detonator. Anuthing that's within 50+ yards of the open end will be seriously

hurting when it goes off. Those of uou who don't have access to high explosives and detonators can substitute a low

PROCEDURE domacro (macnum : INTEGER): FORWARD:

(Forward Declaration for the DoMacro function so that doiler can call it)

explosive and a solar igniter (Doltem executes an item event (see record, above, for structure) and returns for the high explosive and

a true if the macro is complete) FUNCTION doitem (what : item) : BOOLEAN:

BEGIN (doitem) IF what item = play THEN

sendnote (what.voice, what.tone); IF what item = wait THEN DELAY (what.time):

IF what item = stop THEN endnote (what.channel): IF what item = func THEN domacro (what.macnum):

IF what item = term THEN doitem := TRUE FI SE

doitem := FALSE: END: {doitem}

VAR in : INTEGER:

BEGIN (domacro)

detonator. WARNING: I would strongly suggest not making these if you have no experience in the relevant fields needed for the safe manufacturing of improvised weaponry. It's too easy to get yourself hurt (and killed) with this stuff, and the scene doesn't need any more dead followers.

firing circuit ball bearings assorted scrap metal pieces. Explosive

This diagram assumes the use of an electric detonator/ blasting cap or setting off the claymore. However, other methods of detonation could be used.

(Domacro allows you to execute a macro within (or outside) another macro For those of you who are interested in improvised weaponry, I strongly suggest you pick up the four volumes of The Poor Mans James Bond, and a subscription to U.S. Militia.

ip := 0: REPEAT INC(ip) UNTIL ((doitem (macros.macr [macnum] [ip])) OR (ip = 100)); END; (domacro)

{init_all initializes all macros as blank} PROCEDURE init_all; VAR count1 , count2 : INTEGER: BEGIN (init_all)

PROCEDURE domacro (macnum : INTEGER);

FOR count1 := 1 TO 100 DO BEGIN (for)

macros.name [count1] := ": FOR count2 := 1 TO 100 DO

macros.macr [count1] [count2] .item := term: END; (for)

END: (init_all)

The PMJB Volumes 1-4 are \$18 each, and a sub to U.S. Militia is \$35 a year. Write to: Atlan Formularies P.O. Box 95 Alpena, AR 72611

FIGHT DISINFORMATION WITH THIS INFORMATION

```
{exists_file returns whether or not a user-specified file exists}
FUNCTION exists_file (filename : STRING) : BOOLEAN :
VAR maybefile : FILE;
BEGIN (exists_file)
 ASSIGN (maubefile, filename):
 ($1-)
 RESET (maubefile):
 CLOSE (maybefile);
 {$|+}
 exists_file := (IORESULT = D);
END: {exists_file}
{load_macros loads a sequence (macro) file}
PROCEDURE load_macros:
VAR name : STRING [8];
 fullname : STRING [12]:
BEGIN (load_macros)
 WRITELN:
 WRITE ('File name to load: ');
 READLN (name);
 fullname := name + 'MAC':
 #F exists_file (fullname) THEN
   REGIN
   ASSIGN (datafile, fullname);
   RESET (datafile):
   READ (datafile, macros);
   CLOSE (datafile):
   END
 FLSE
   WRITELN ('File not found.'):
END: {load_macros}
{save_macros saves all sequences currently in memory}
PROCEDURE save_macros:
VAR name : STRING [8]:
 fullname : STRING [12]:
BEGIN (save_macros)
 WRITELN:
 WRITE ('File name to save: '):
 READLN (name):
 fullname := name + '.MAC':
 ASSIGN (datafile, fullname);
 REWRITE (datafile):
 WRITE (datafile, macros);
 CLOSE (datafile):
 WRITELN ('File saved.');
```

GTA 30-1-23 FEBPUARY 1977 BE A WINNER SOLDIERS GUIDE. TO COMBAT INTELLIGENCE NOISE AND LIGHT DISCIPLINE Noise, such as talking, can be picked up by enem patrols or listening posts. At night time, a lighted match or cigarette can be seen for a great distance. Deny the enemy information. MOISE DISCIPLINE . Use hand and arm signals - Do not talk or whisper. Tape all items that may rattle. Start all vehicle-generator engines at the same time. Bove vehicles only when secessa Use telephones is place of radios LIGHT DISCIPLINE -Use light filters on flashlights, or shield with Use matches, lighters, and elgarattes only in light proof shelters. Use whicle blackout lights. Turn all as adjust light to dimmest satting Light heating or cooking lires only in des og fires only in designal

(list_line displays the item on the specified line of the specified macro) PROCEDURE list_line (macr, counter : INTEGR);

RECOUNTED TO THE TIME THE

END: {save_macros}

FOR EDUCATIONAL PURPOSES ONLY
PAGE 5

```
stop : WRITELN (counter : 3, ' End note on voice ',
                                                                                                                  CAMOUFLAGE
     macros.macr [macr] [counter] .channel):
                                                                                                             TACUMES TAKEN TO CONCEAU TELE AND
     play : WRITELN (counter : 3, ' Play ', macros.macr [macr] [counter] .tone, 'Hz tone on voice number',
                                                                                                              EQUIPMENT I BON ENERY OUST TVATION
                                                                                                             . CUMPAT TESTED METHODS OF INDIVIDUAL
                                                                                                            CAMPLITTAGE
      macros.macr [macr] [counter] .channel);
                                                                                                            DISGUISING THE HELMET
 END: (case)
                                                                                                             Use leaves no twigs to hones up the shape.
Brap the belief with buriap or smear it with mud
END: {list_line}
                                                                                                           CANVAS EQUIPMENT .
                                                                                                             Darken forled web equipment with point, mud or charcost.
{List_name displays the name of a specified macro}
PROCEDURE list_name (number : INTEGER):
                                                                                                              The face, neck and hands should be foned down with commulage face paint, and or burst cork.
BEGIN (list_name)
 WRITE (number : 2, '', macros.name [number] : 17);
                                                                                                           REAPONS TONEDOWN
                                                                                                              Pres with strips of bridge or dyrd cloth.
Cover shiey ports with cloth, paint or mud.
END: {list_name}
                                                                                                            SHINY ORJECTS -
                                                                                                              Predictions, maps hits, and all bright objects reflect light and must be concealed.
fList_data allows a macro to be specified and the whole macro to be displayed
with screen pausing)
                                                                                                           CAMPUF: AGE DISCIPTINT.

Base Mings look like they before and out of place. Concent tracks: been during name and
PROCEDURE list_data:
                                                                                                              other litter sicked or. Check your carouffage
VAR void : CHAR:
 macr, counter : INTEGER:
BEGIN (list_data)
 WRITE ('List which macro? '):
 READLN (macr):
 WRITE ('Macro: ');
 hist_name (macr);
 WRITELN:
 counter := 1;
  WHILE ( (macros.macr [macr] [counter] .item (> term) DR (counter = 1) ) DO
       BEGIN (while)
      list_line (macr, counter);
       INC (counter):
       IF (counter MOD 23 = 0) THEN
         REGIN (if)
         WRITE ('Press and key to continue'):
         void := READKEY;
         IF void = "OO THEN
            void := READKEY:
         WRITELN:
                                                                                                           OBSERVING AND REPORTING
         END: (if)
                                                                                                          THE COMPAT SOLDIER IS CLOSE TO THE ENTHY
       END; {while}
                                                                                                          AND DAY DESTRUE HIM AND THE TERRAIN HE
  WRITE ('Press and key to continue.'):
                                                                                                          CONTROLS
  void := READKEY;
                                                                                                          BHEN YOU OBSERVE LOOK FOR
  IF void = 800 THEN
                                                                                                            PHO
                                                                                                                     (did you see?)
     void := READKEY:
                                                                                                            BHAT
                                                                                                                    (was be doing?)
  WRITELN:
                                                                                                            -
                                                                                                                    (did you see It?)
END: {list_data}
                                                                                                                   (ded it bessers?)
                                                                                                                 AND WHERE WERE YOU?
{Edit_macro allows one to create or edit a tone sequence (macro) }
                                                                                                         BHEN YOU BE BORT GIVE
PROCEDURE edit_macro:
                                                                                                            Size
VAR innum, macr, ip, linenum : INTEGER;
                                                                                                            Activity
                                                                                                            & ocation
   inchar : CHAR:
                                                                                                                         Kay Bard
                                                                                                            L'alt
                                                                                                                         SALUTE
   mname : STRING [20]:
                                                                                                            Time
                                                                                                            Equips
BEGIN (edit_macro)
   WRITELN:
   WRITELN;
   WRITE ('Macro to edit: ):
   READLN (macr):
   WRITE ('Line number to start at: ');
```

```
READLN (ip);
DEC (ip):
IF ip = O THEN
 BEGIN (if)
 WRITELN:
 WRITE ('Macro Name: ');
 READLN (mname):
 macros.name [macr] := mname;
 END: (if)
WRITELN;
WRITELN ("(P)lau note
                               (E)nd note'):
WRITELN ('(D)elau
                              (C)all mapro'):
WRITELN ('(T)erminate macro'):
WRITELN:
REPEAT
 INC (ip):
 linenum := WHEREY;
 WRITE (ip, ': ');
 inchar := UPCASE (READKEY):
 # inchar = *O THEN
   inchar := UPCASE (READKEY);
 CASE inchar DE
    T': macros.macr [macr] [ip] .item := term;
    "C" : BEGIN (Call)
    WRITE ('Macro to call: '):
    READLN (innum);
    WRITELN:
    macros.macr [macr] [ip] .item := func;
    macros.macr [macr] [ip] .macnum := innum:
    END; {call}
    'D' : BEGIN {delau}
    WRITE ('Delay in milliseconds: ');
    READLN (innum):
    WRITELN:
    macros.macr [macr] [ip] .item := wait;
    macros.macr [macr] [ip] .time := innum;
    END: {delay}
    'E' : BEGIN (end note)
    WRITE ("Voice number to end: ");
    READLN (innum):
    WRITELN;
    macros.macr [macr] [ip] .item := stop:
    macros.macr [macr] [ip] .channel := innum;
    END: {end note}
    'P' : BEGIN (start note)
    WRITE ('Voice number to play: ');
    READLN (innum);
    macros.macr [macr] [ip] .item := play;
    macros.macr [macr] [ip] .voice := innum;
    WRITE ('Tone to play in Hz: ');
    READLN (innum):
    macros.macr [macr] [ip] .tone := innum;
    WRITELN:
    END: (start note)
 END: {case}
 GOTOXY (1, WHEREY);
 list_line (maor, ip);
```

Garbage Channels: Another Approach At Finding Frequencies bu Thomas Icom

You notice this group using handheld radios. and desire to listen in on them. You have no clue as to their identity, and doubt they're even licensed. You can't afford one of those neato frequency counters, and while you have an idea as to what band they're on; a traditional frequency search might take too long. While finding their frequency might seem a difficult to impossible proposition, there is a way to increase your chances of a successful "catch". The entire procedure takes only 10 seconds.

The FCC has set aside certain frequencies for low-power business communications between handhelds. These are called "low power", or "itinerant" frequencies. My friend The Glitch refers to them agar bage channels, as anybody with \$200 can pick up a pair of HTs on these frequencies and set up shop. A lot of groups who need inexpensive communications capability of a higher quality than CB often go and pick up a few garbage channel units. They're even available at

Radio Shack for \$149 a pop.

So, there is a good chance that the group you've just encountered might be running on a garbage channel. If your read the article on Page 10, you should be able to determine what band they're running on. Plug in the frequencies listed below (in Mhz.) that correspond to the right band. You might get lucky.

VHF LOW: 30.84, 33.12, 33.14, 35.02, 35.04, 42.98, 43.04 VHF HIGH: 151.505. 151.625. 154.57. 154.6. 158.4 UHF: 451.8, 457.525-457.6 (25 Khz. spacing). 464.5, 464.55, 467.75-467.925 (25 Khz. spacing). 800 Mhz.: 851.0125-855.9875

The most commonly used garbage channels are the boldfaced ones in the VHF High Band. If they are on UHF and you have no luck with those frequencies, then try searching 461-465 Mhz. The 12.5 Khz. "splinter" channels are all assigned to "low power" operations. My experience is that of that range, 464-465 Mhz. yields the best results. Also, if they have small cheap looking radios with 2 foot telescoping metal whips tru 49.83-50 Mhz. I keep the garbage channels programed into one of my scanner's memory banks. This way if I run into some «Continued on Page 10»

WRITELN: MESSAGE CONTROL TO A SAGE CONTROL UNTIL ((ip = 100) OR (macros.macr [macr] [ip] .item = term) OR (inchar = #13)); END; (edit_macro)

{List_names lists all the names of all the macros} PROCEDURE list_names; VAR count : INTEGER; void : CHAR : BEGIN (list_names) FOR count := 1 TO 100 DO F count MOD (23 * 3) = 0 THEN BEGIN (if) it of year a et aneil , neitteedend WRITELN: WRITE ('Press any key to continue'); void := RE ADKEY; F void = *00 THEN void := READKEY: WRITELN; END: (if) F count MOD 3 = 1 THEN WRITELN; a lot A dode ou lee has estaneupent list_name (count); END; (for) has an assistant and settlement with the settlement of WRITELN: WRITE ("Press any key to continue"); void := READKEY; IF void = *00 THEN void := READKEY; WRITELN: END: {list_names} (Menu displays the menu and returns a true when the user is done) FUNCTION menu : BOOLE AN; VAR macnum : INTEGER; inchar : CHAR: BEGIN (menu) CLRSCR: WRITELN ('AdLib/SoundBlaster Tone Sequencer'); WRITELN ('Written by Nick Haffinger for Cubertek magazine'); WRITELN: WRITELN: WRITELN ('Options:'): WRITELN ('(L)oad macro file (S)ave macro file'); WRITELN ('(E)dit macro e(X)ecute macro'): WRITELN ('1(1)st macro (N)ames'); WRITELN ('(O)uft'): WRITELN:

WRITE ('Enter option: '):

WRITELN:

CASE inchar OF

"I" : list_data; F' edit macro

inchar := UPCASE (READKEY);

F inchar = #00 THEN inchar := UPCASE (READKEY);

'L' : load_macros;

'S' : save_macros;

HANDLING PRISONERS OF WAR CAPTURED ENEMY EQUIPMENT/ DOCUMENTS you capture prisoners, remember the 5 5's SEARCH - for messons decuments immediately SEGREGATE - Into groups Officers, MCO's. Privates, Deserters, Civilians, Females, Line Crossers SILENCE - Do not allow prisoners to talk to SPEED - Prisoners to the rear with personal Items sed documents. SAFEGUARD - Prisoners, documents and material; Tag and evacuate to the rear. PRISONERS AND/OR CAPTURED ENFWY DOCUMENTS AND EQUIPMENT SHOULD BE TAGGED. IF A CAPTURE TAG IS NOT AVAILABLE ANY PIECE OF PARES MILL DO. IT SHOULD INCLUDE DATE AND THE CARTINED PLACE CAPTURED (COORDINATES). CAPTURING UNIT, AND CIRCUMSTANCES OF CAPTURE.

CHALLENGE AND PASSWORD THE CHALLENGE AND PASSWORD IS USED TO IDENTIFY UNKNOWN PERSONNEL. THEY ARE CHANGED EVERY 24 HOURS AND SHOULD NOT BE USED OUTSIDE FRIENDLY CHALLENGE -HALT ____ (STRANGER HALTS) WHO IS THERE? -FRIENDLY PATROL ADVANCE (ONE) TO BE RECOGNIZED ____ STRANCER ADVANCES CHALLENGE - LOR CLEAR VOICE . - PASSEGRO FF480/ E: 180110H EXAMPLE BEARS PASS _____ - IDENTIFIED SOLDIER PASSES the will identify each member of his patrol) BER: MEMORIZE CURRENT PASSWORDS AND COUNTY.
HALT AND IDENTIFY PERSONNEL BEFORE THEY
ARE CLOSE ENOUGH TO BE A THREAT.

REEP THE INDIVIDUAL COVERED AND DO NOT EXPOSE YOURSELF.

DO NOT PERMIT PERSON TO PROCEED UNTIL PROPERLY IDENTIFIED.

SPEAK CLEARLY AND JUST LOUDLY ENOUGH TO

FOR FOUCATIONAL PURPOSES ONLY

```
'N' : list_names;
    "X" : BEGIN
    WRITE ('Macro to execute: '):
    READLN (macnum);
    domacro (macnum);
    END:
 END : {case}
 IF inchar = 'O' THEN
  menu := TRUE
 FI SF
  menu := FALSE;
END: {menu}
BEGIN (main)
 init_all:
                (initializes all macros as blank)
 REPEAT
 UNTIL menu:
               (executes until menu says that user is done)
END. {main}
                                         DIALER PAS
```

{Phone_dialer by Nick Haflinger for CyberTek magazine} (Phone_dialer will dial the user's phone through the sound board) (it also doubles as both a red and silver box) PROGRAM phone_dialer (input, output):

USES ort, driver:

PROCEDURE check_card_installed: BEGIN (check_card_installed) IF NOT (exists_card) THEN BEGIN (if) CLRSCR: WRITELN ('No AdLib card found!'): HALT (1): END: (if) END: {check_card_installed}

PROCEDURE twotones (tone1, tone2: INTEGER); BEGIN (twotones) sendnote (0, tone 1): sendnote (1, tone2); END: {twotones}

PROCEDURE endtwo: BEGIN (endtwo) endnote (0); endnote (1): END; (endtwo)

PROCEDURE nickel; BEGIN (nickel) twotones (1700, 2200); DELAY (66); endtwo; END: {nickel}

PAGE 9





COMSEC prevents the enemy from gaining useful information from communications. Everyone must practice COMSEC - MAKE IT A HABIT!

ALWAYS FOLLOW THESE BULES

USE WIRE INSTEAD OF RADIO IF POSSIBLE NEVER VIOLATE RADIO SILFINCE MAKE TRANSMISSIONS BRIEF, NEVER MORE THAN USE PROPER RADIO/TELEPHONE PROCEDURE
USE MINIMUM POWER REQUIRED
NEVER TRANSMIT CLASSIFIED INFORMATION IN HE CLEAR USE ONLY AUTHORIZED COORS
USE AUTHORIZED COORS
USE AUTHORIZED TOOPERLY
SITE TRANSMITING ANTENNAS ON REVERSE

SLOPE (AWAY FROM ENEMY)
USE DUMAY ANTENNA TO TUNE OR TEST RADIO
TRY TO WORK THROUGH JAMMING
NEVER SAY AMYTHING OVER THE AIR ABOUT

```
PROCEDURE dime;
BEGIN (dime)
 nickel:
 DELAY (33):
 nickel:
END: {dime}
PROCEDURE quarter:
VAR count : INTEGER:
BEGIN (quarter)
 FOR count = 1 TO 5 DO
    BEGIN (for)
    twotones (1700, 2200):
    DELAY (33):
    endtwo:
    DELAY (33):
    END: {for}
END; {quarter}
PROCEDURE number (num : CHAR):
BEGIN (number)
 CASE UPCASE (num) OF
    (white box/silver box tones (keupad))
    '1': twotones (697, 1209);
    "2" : twotones (697, 1336);
     '3' : twotones (697, 1477);
    'A' : twotones (697, 1633):
     '4' : twotones (770 . 1209) :
     '5' : twotones (770, 1336):
     '6' : twotones (770, 1477);
     'B' : twotones (770, 1633);
    '7' : twotones (852, 1209):
     '8' : twotones (852, 1336);
     '9' : twotones (852, 1477):
     "C": twotones (852, 1633);
    '*' : twotones (941, 1209);
     "O": twotones (941, 1336);
    '8' : twotones (941, 1477);
     D' : twotones (941 . 1633):
     (red box tones)
     'N' : nickel;
     'l' : dime ;
     'Q' : quarter;
  END: {case}
  DELAY (100):
  endtwo:
```

FUNCTION readchar : BOOLEAN: VAR option : CHAR; BEGIN (readchar) option := READKEY: number (option):

END; {number}

Quick quide to finding band of a portable by looking at the

These measurements are for the actual antenna, not including the mount between the portable and the antenna, which is usually either a BNC connector or a screw in connector, which can be a bigger diameter at the base and add to the overall length.

If the antenna is longer than about 12 inches, and about 1/2 inch diameter, it is probably VHF-LO band, usually in the 30-50 MHz range.

If the antenna is about 6 inches long, and about 1/4 inch in diameter, it is probably VHF-HI bend, in the 150-165 MHz range.

If the antenna is either 2 inches long and about 1/4 inch in diameter, or about 6 inches long and 1/8 inch in diameter, it is probably in the UHF band, in the 450-470 MHz range.

If the antenna is about 2 inches long and about 1/8 inch in diameter (sometimes mounted at the top of another entenna that is about 5 inches long and about 1/4 inch in diameter), then it is probably in the 800 MHz band, or possibly even the new 900 MHz band, and the range is possibly in the 840-860 MHz range, if the portable is using a repeater system.

These ranges should be fairly accurate, with some exceptions like if the radio is licensed by the federal government in which case the frequencies tend to be in different ranges than those frequencies set aside for business/public

safetu.

«Continued From Page 7»

people with HTs, I bring that bank up to do a quick check. In many cases that's all I have to do to get their frequency. I keep the garbage channel active when I'm travelling in an area I have no frequencies for. The wide use of these frequencies everywhere ensures that I always have something to listen to. Usually it also turns out to be something interesting, as a lot of "security" forces use the garbage channels.

SIMPLE TV JAMMER

SYMBOLS

TC means trimmer capacitor. Use anu trimmer (variable) capacitor from 3-50 microfarads. Or just experiment! Radio Shack has a few different kinds.

«Continued Page 11»

FOR EDUCATIONAL PURPOSES ONLY PAGE 10

```
IF LIPCASE (option) = "X'THEN
   readchar := FALSE
 FLSE
   readchar := TRUE:
END:
```

PROCEDURE menu; BEGIN (menu)

CLRSCR:

WRITELN ('Phone Dialer by Nick Haflinger for Cybertek magazine'); WRITELN; WRITELN ('keys: 0-9, *, * = normal phone keypad'); WRITELN (

A, B, C, D = silver box tones'): WRITELN (

N, I, Q = (N)ickel, d(I)me, (Q)uarter red box tones'); WRITELN; WRITELN ('X = e(X)it');

WRITELN:

WRITELN; END: {menu}

BEGIN (main)

check_card_installed: menu:

REPEAT

UNTIL readchar = FALSE: END. {main}

DRIVER.PAS

(AdLib Driver by Nick Haffinger for Cybertek magazine) UNIT driver: {AdLib driver for Tone Sequencer}

INTERFACE

FUNCTION exists_card : BOOLEAN; PROCEDURE init_adlib:

(Inits the AdLib board) PROCEDURE endnote (voice : INTEGER): PROCEDURE sendnote (voice, freq : INTEGER); (Sends a note)

(is there a sound card?)

(Ends a note directlu)

WE WE WE WE HE WE 14 13 12 11 10 9 7404 Hex 3

Simple TV Jammer Plans

«Continued from Page 10»

IC means integrated circuit. Use a TTL 7404 or 74LSD4 Hex Inverter. Can get this at any respectable electronic shop. Radio Shack part number 276-1802 for about 99 cents.

R1 and R2 are resistors. TTL chips require a supply voltage of 5 volts (DC). Since we are using a standard 9 volt battery, we need a voltage divider network. Choose R1 and R2 such that R1/R2=0.8. Example, if R2=1000 ohms (1K- ohm) then choose R1=800 ohms.

Vo(Pin 14)=Vi(P)*R2/(R1+R2)

P means the positive terminal of the 9 volt battery and N means the negative terminal of the 9 volt batteru.

> Silence is the voice of complicity.

IMPLEMENT ATION

TYPE tenbitbin = ARRAY [0..9] OF 0.1: TYPE internal_instchr = ARRAY [1..6, 1..2] OF BYTE:

{POWER returns the 2 to the nth power, n>-1} FUNCTION power (n : INTEGER) : INTEGER: VAR accum, count : INTEGER: BEGIN (power) accum := 1: FOR count := 1 TO n DO accum := accum # 2; power := accum; END: {power}

(CVTBIN converts a number to a ten bit binary number) PROCEDURE cythin (VAR outnum : tenbithin:

CONNECTIONS

Connect Pin 2 to Pin 3. Connect Pin 4 to Pin 5.

Connect Pin 5 to one side of trimmer capacitor (TC).

Connect Pin 6 to other side of trimmer capacitor (TC)

Connect Pin 7 to negative side of 9 volt battery. Connect Pin 1 to Pin 6. * DO NOT CONNECT TO PIN B 7

NC means No Connections

OPERATION

Use a breadboard for testing and/or solder the finished project on a small piece of «Continued Page 17»

```
innum : INTEGER);
VAR count : INTEGER;
 worknum : INTEGER:
BEGIN (cythin)
 worknum := innum;
 FOR count := 0 TO 9 DO
     BEGIN (for)
     outnum [count] := worknum MOD 2;
     worknum := worknum DIV 2;
     END: (for)
END; {cvtbin}
(SENDREG sends a specified value direct to the AdLib register specified) PROCEDURE sendreg (portreg, outvalue
: BYTE):
VAR temp, count : BYTE;
BEGIN (sendreg)
                                                                                                       COVER AND CONCEALMENT
  port [$388] := portreg;
                                                                                                       WER - PROTECTION FROM ENEWY FIRE
  FOR count := 1 TO 6 DO
     temp := port [$388];
  port [$389] := outvalue;
                                                                                                     CONCEALBENT - PROTECTION PROS ENERY
                                                                                                                 DESERVATION
  FOR count := 1 TO 35 DO
                                                                                                         Hartesi - Bushes, Gress, Shadows
Man-made - Boxisp, Hets, Paint
      temp := port [$388];
END; (sendreg)
                                                                                                 Before the enemy can shart you, he must know where you one.
Concestment will help to know him from repriling you. Cover
will make it hard for him to hit you - with direct or indirect
(EXISTS_CARD checks for the presence of an AdLib or compatible card)
                                                                                               COVER AND CONCEALMENT GO TOGETHER
VAR count . t1 . t2 . void : INTEGER;
                                                                                                     DO'S AND DON'TS
FUNCTION exists_card : BOOLEAN;
                                                                                                       USE ALL COVER AND CONCLALMENT AVAILABLE
BEGIN (exists_card)
                                                                                                       MOVE ONLY WHEN NECESSARY-THEN CAREFULLY
STAY LON - PRONE IF POSSIBLE
EXPOSE NOTHING THAT SHIMES
                                               {resets timers}
   sendreg (4, $60);
                                                                                                       USE SMADOWS TO MELP YOU HIDE: BLEND BITH
YOUR BACKGROUND
DON'T SILMOUETTE YOURSFLF AGAINST SKYLINES
   sendreg (4, $80);
                                               (enables timers)
                                                 (get current timer)
   t1 := port [$388]:
                                                                                                       OR TOPS OF WALLS
                                               {reset timer 1}
   sendreg (2, $FF);
                                                                                                       CHANGE OR DISGUISE THE SHAPE OF YOURSELF
   sendreg (4, $21);
                                               {start timer 1}
                                                                                                       AND EQUIPMENT
   FOR count := 1 TO 123 DO
                                                                                                         DEJECT
DD OUTSTANDING LANDWARKS BUCH AS LO
TREES AND ROAD JUNCTIONS
      t2 := port [$388]; {wait for timer (80ms)}
   exists_card := (((t1 AND $EO) = 0) AND ((t2 AND $EO) = $CO));
 END; (exists_card)
 (Init_voice sends the characteristics for a pure tone directly to the card) PROCEDURE init_voice (voice :
```

BYTE):

```
BEGIN (init_voice)
 sendreg ($20 + voice, $21);
 sendreg ($40 + voice, $10);
 sendreg ($60 + voice, $F3);
 sendreg ($80 + voice, $0F);
 sendreg ($CO + voice, $01);
 sendreg ($EO + voice, $00);
 sendreg ($23 + voice, $01);
 sendreg ($43 + voice, $00);
 sendreg ($63 + voice, $03);
 sendreg ($83 + voice, $0F);
 sendreg ($CO + voice, $01);
 sendreg ($E3 + voice, $00);
END: {init_voice}
```

(INIT_ADLIB is a quick and dirty init for the AdLib card) PROCEDURE init_adlib;

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CIRCUIT-BREAKING ALARM-Operates from small 9-V bettery, making it independent of AC power failure. Opening of switch or equivalent breaking of foil conductor removes ground from base of transistor, to energize alarm.—Circuits, 73 Magazine, April 1973, p 132.

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```
BEGIN (init_adlib)
 FOR count := 0 TO $F5 DO
    sendreg (count, 0);
 sendreg (1, 32);
 FOR count := 0 TO 6 DO
    init_voice (count);
END: (init_adlib)
{ENDNOTE ends a note on the voice channel specified}
PROCEDURE endnote (voice : INTEGER);
REGIN (endnote)
 sendreg ($b0 + voice, 0);
END: {endnote}
(sendnote sends a note directly to the sound card with the specified vox/freq) PROCEDURE sendnote (voice, freq
· INTEGER):
VAR count, fnum, block, outnum1, outnum2: INTEGER;
 converted : tenbitbin;
BEGIN (sendnote)
                                                                                   effect; S, must be closed momentarily after re-
 IF freq < 97 THEN
                                            WINDOW-FOIL ALARM-Combination
                                                                                   storing sensor circuit to turn alarm off. Circuit
   block := 1
                                            power-up mono MVBR and latch, using both
                                                                                   Includes 22-s power-up delay that prevents trig-
                                            e tion of 555 times, drives output line high
 ELSE
                                                                                   pering of alarm when it is first turned on-
                                            when sensor circuit is opened at door or win-
                                                                                   G. Jung, "IC Timer Cookbook," Howard W.
   IF freq < 195 THEN
                                            dow switch or by breaking foil on pless. Once
                                                                                   Sams, Indianapolis, IN, 1977, p 231-232.
     block := 2
                                            plarm is triggered, reclosing of sensor has no
   FI SF
      IF freq < 389 THEN
        block = 3
     ELSE
        IF freq < 780 THEN
                                                       100 kp $
                                                                                                100 km
          block = 4
                                                                                         2N3904
        ELSE
          IF freq < 1561 THEN
            block := 5
          FI SE
                                                              10014
            IF freq < 3122 THEN
                                                                                                                   Output-
                                                                                                                  High =
              block := 6
                                                                                                                  Alorm
            ELSE
               IF freq < 6244 THEN
                block = 7
              FISE
                 IF freq < 12487 THEN
                                                        5.
                  block := 8:
 CASE block OF
     1 : foum := ROUND (freq / 0.095);
     2 : foum := ROUND (freg / 0.191);
     3 : fnum := ROUND (freg / 0.381):
     4 : fnum := ROUND (freg / 0.763):
     5 : fnum := ROUND (freg / 1.526):
     6 : foum := ROUND (freg / 3.052):
     7 : foum := ROUND (freg / 6.104):
     8 : fnum := ROUND (freq / 12.207);
  END; (case)
  cythin (converted, fnum);
```

outnum1 := (32 + (4 * block) + (converted [9] * 2) + converted [8]); outnum2 := 0;

FOR EDUCATIONAL PURPOSES ONLY

VAR count : BYTE;

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FOR count := D TO 7 DO outnum2 := outnum2 + (converted [count] * power (count)): sendreg (\$a0 + voice, outnum2); sendreg (\$b0 + voice, outnum1): END; (sendnote)

BEGIN (main) (Unit initialization) init_adlib: END. (main)

(Initialize pard)

(End unit initilization)

"Where do we start?" Resistance Op's in the 90's Part II, Intelligence Operations by Thomas Icom

Gathering information about the outside world as it relates to your group is probably one of the most important aspects of a group's activities. Every group should have one or two people in it whose job is to gather and analyze intelligence. If your group is involved in disseminating news to the outside world, then intelligence gathering should rank up with the group's information dissemination activities.

The most important thing your group should know about intelligence is that intelligence is applied information. All the information your group can gather won't help it unless you apply the information in respect to achieving your group's goals. So, the first requirement of any group's intelligence operations is to define their goals and the requirements of information they need to achieve their goals.

Once that is done, then you need you determine what sources you need to use in order to collect good intelligence. Intelligence sources fall into three categories; White, Grey, and Black.

White intelligence is publicly available information that is available with little to no effort. Examples of white intelligence sources are newspapers and TV news broadcasts.

Grey intelligence is information that is also publicly available, but requires research effort to acquire. Examples are non-commercial radio communications (ie. public communications you hear on a scanner), certain publications which have distribution, and social engineering select people who have expertise in the field you are gathering intelligence on.

Black intelligence is information which is not publicly available, and thus can only be generally attained by illegal means. Examples are the breaking and entering of a target's property to duplicate certain pieces of information, the use of surveillance equipment, and the blackmail of a target's employee who has an exploitable weakness. In my opinion, the gathering of black intelligence is, for the most part, a waste of time and too risky for a group to engage in. Should your group have a real need for black intelligence, either a good job of collecting white and grey intelligence should be adequate for you to accurately guess any proprietary information you need, or your group is way beyond anything I'll be discussing here.

Once you defined the intelligence sources you want to use, you can then gather the information you will need for good intelligence. This process will be constantly occurring, as the flow of

information will never stop.

The prime requirement for your group's intelligence gathering operatives is that they are through. There will often be an urge to do on-the-spot analysis of the information as it's being gathered. THIS SHOULD NOT BE DONE UNDER ANY CIRCUMSTANCES! When gathering information to be turned into intelligence, just get as much as possible, and give it to the analysts. It's their job to figure it out. A secondary requirement for intelligence gatherers on the lookout for new intelligence is to be sources, as old ones go dry. This skill is one that will get better with time.

Once you have gathered your information, then it is the job of the analyst to turn it into intelligence. Intelligence analysts are a rare breed, as the job requires not only top expertise in their respective field, but also an uncanny knack of figuring out complex patterns, and putting together many different seemingly unrelated pieces of information into a coherent picture which tells how the intelligence affects the group's goals. Many of these types of people will seem a little flakey, but if you find one, hold onto him, as they are a rare and valuable breed. It should be noted that the military's A.A.T., or Analytical Aptitude Test; which is used to determine a person's analytical capacity, is said

to have a 90% "failure" rate.

Usually, due to a group's size limitations, one person will be assigned to the task of both gethering and analyzing intelligence. If this is the case, then it is very important that the group's intilligence specialist have a "split personality" when it comes to the different tasks of gethering and analyzing intelligence. From personal experience I can say there will be a strong urge to a quick analysis of informations as it is being gethered. If you do this, you won't be half as successful as if you just simply collected the information and then looked it over later. Keep the jobs seperate.

Once the information has been enelyzed and turned into intelligence, then it should be quickly sent to the group's commend steff for action. Even the picture is incomplete, it should still be turned over to the policymakers; who should take into account that the information is incomplete. What's important here is that the group's leader's be constantly informed as to upcoming and current developments. This way, they can make informed decisions in reagreds to arous extivities

and policu.

This is also the point where it is decided whether or not the intelligence is disseminated to the outside world, if your group is involved in information/eves dissemination. Working on the basis of incomplete intelligence can often result in a bogus story. However, weiting until you have a complete proture vill often result in the story

losing its time value.

Once a decision has been made to release the intelligence to the public as news, then steps must occasionally be made to sanitize the intelligence in order to disguise the source. This is often needed to preserve the integrity of an intelligence source so you can continue to use it. However, sanitzing a story too much can often make it lose its credibility. So thus, a good

balance must be found.

I hope everyone found this erticle informative, and that it accomplished it's objective in giving everyone a basic primer on intelligence operations. Intell ops skills are best acquired by going out and doing it, so get to tit Any questions can be referred to me via my V.M.B. #10288-0700-751-2600, Box 4266; via Uncensored BBS #914-761-6877, or by writing me at the magazine.

FIGHT DISINFORMATION
WITH
THIS INFORMATION

Reflections by Beltane

Ed. Note: This article was originally a message take noff of Black Crawling Systems, a Cyberpunk/Survivalist BBS in Boston. (617-482-6356) Since the euthor showed some good ideas, permission was acquired to reprint it here. With that, we'd like to thank the author for allowing us to reprint it.

Some ideas that I muself have concluded are that the technology of survival should of necessity range from stone age to high tech. Here's what I mean, any rifle becomes a paperweight once the ammunition is gone, I myself prefer the compound bow. No licensing (anonymity) soundless, the projectiles can be manufactured by hand, and they are extremely effective in the hands of an expert. A backpack properly outfitted is essential, there should be enough freeze dried food for a minimum of 14 days. All equipment should be simple the highest quality and reliable. A modified programmable scanner is important also, when martial law is declared they aren't going to want people wandering around. Waterproof maps (detailed topo, etc) of the escape route are essential. Doesn't hurt to do a little camping also to check everything out a couple times a year. Don't count on being able to use the roads either, checkpoints, weird people, etc. Stick to remote locations and use a dirt/street bike. Practice with your equipment, an emergency is no time to be reading the manuals for anuthing, or to be practicing your shooting skills. Forget about expensive cumbersome junk, there will be more than enough tous to be had at anytime thereafter, simply take what you need. Prepare to be as well outfitted as the military, buy the same equipment. I prefer Brigade Quartermaster. Computers will be worthless without phone lines. If you survive the initial disaster you can come back and get all of that junk that you want anyway at anytime, so a pocket PC is all that's needed when there may be the occasion to use a payphone. They fit in a backpack no sweat. I use mine camping all the time. Don't forget's solar recharger. Where do you recharge it when the utilities are gone? All this stuff is cheap and will work guaranteed. Don't forget what they taught you in the military, keep it simple. I don't intend to allow the lunatic political behavior of a collection of oxymorons get me, you shouldn't either.

Wireless Reception of Cable TV bu Thomas Icom

The difference between cable TV and regular TV can be seen in cable TV's "official" name, Community Antenna Television (CATY). Basically, with CATY, the cable company installs a TV antenna, and a satellite dish at a good receiving location somewhere (theu call this place a "head- end"), and then re-transmits the TV signals over cable to customers' homes and businesses. CATV systems use frequencies between 108-400 Mhz. to send their extra channels through the system. The mid-band (channels 14-22) is between 108-174 Mhz., super-band (23-36) is between 200-290 and huper-band (37-53) is between 290-400 Mh. (These ranges are approximate.) To keep the CATY signals from interfering with the regular services on those frequencies, the cable company must keep leakage from their system down to an absolute minimum. This is easier said than done, and no matter how hard they try, CATY systems still leak to some extent, however minimal it may

With equipment available from your local Radio Shack along with your TV, you can pick up low-level CATV signal leakage and get free CATV service without having to pay an installation fee or monthly service charges. This is all perfectly legal because you (currently) have the right to receive radio signals that come onto your domain. and in all reality the cable TV company shouldn't be letting these signals leak out of their system to begin with. When attempting this you should be aware that if your cable TV company is competent, you might not find an area in your neighborhood's outside plant that has enough leakage to get a good signal. Also, the way the government has been acting lately, one never knows when they might decide people who experiment with low-level RF signal reception are a threat to society. If such a thing does occur, make the necessary preparations before one of those UH-60 Blackhawks full of men with MP5SD3s lands on your lawn to bring you into

Your wireless CATY reception station will need the following:

- Fringe reception TV antenna

10-20 db gain TV reception amplifier. Preferably one with an amplifier module that mounts near the antenna and a remote power supply. The two piece models are better beause they amplify the signal before it gets noise from going through the coax.

- Cable TV converter box

- Cable descrambler for your system, if you want to receive "premium" channels (optional)

- television (obviously)

- Good quality RG-6 (or better) coax cable with connectors and 75-300 Ohm transformer if your TV doesn't have a 75 Ohm antenna input

TV antenna mast and other materials for

mounting the antenna on your roof

The system is put together as shown in Figure 1. If your CATV descrambler is also a converter. then put it where the CABLE CONV. goes. If it is one of those types that descrambles channel 3 from a separate converter than hook it up as shown in Figure 2.

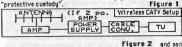
Once you have your system put together you have to find a leak to receive off of. The cable companies find leaks by driving down the road with a field strength meter. You can do this bu walking under the cable and stopping where you see a peak on the meter. You can get a field strength meter for under \$50 at Radio Shack. However, unless you use a tuned field strength meter you will also register any strong RF source. If you have a portable TV such as a Sony Watchman, you can tune to a channel that you normally won't receive and walk around until you get reception.

On a side note, many of those portable TVs that use an analog tuning dial (as opposed to a channel selector knob) often are able to receive mid-band cable channels without a converter box. (The Sony Watchman Model FD-10A can.) To check if your portable TV can do this, examine the TV's VHF (Ch. 2-13) tuning selector. The mid-band Figure 1 capable TV's have only 1 band for VHF

selection. To get mid-band with these TV's, simply tune between channels 6 and 7. You will also be able to pick up various types of voice commo from 88-174 Mhz, although the selectivity

and sensitivity on portable TY's suck for picking up narrow-band FM voice. You might fare better getting in some of the stronger FM broadcast stations on 88-108 though.

When looking around for a good CATV leak,



DESCRAMB. CONU. Hook-up when using add-on descrambler.

CABIF

FOR EDUCATIONAL PURPOSES ONLY PAGE 16

check under junction boxes where the main line is tapped to run cable drops to subscribers. They often degrade from being exposed to the elements. Also check around the homes of neighbors who you feel might have added extra CATV extensions to their house's wiring plant. If they have an entenna on their roof, then chances are they took the wiring plant that was hooked up to their antenna, and hooked it up to the cable sustem. The cable company generally uses good quality (expensive) materials when installing cable in someone's house. Most people when extending their system go to a department store or Radio Shack, and buy the cheapest (low quality) stuff they can find. This often leads to CATY leakage. Usually, the CATV company doesn't notice the leakage from a home unless it is really severe, as their detection equipment consists of a field strength meter and a 1/4 wave antenna. And since their readings are taken while going 40 MPH down a road, the signal from inside a house set back XXX feet from the road is usually not strong enough for them to take notice. You on the other hand, are using an antenna that has 100 times more gain than theirs, and are amplifuing the signal your antenna picks up even more.

Once you've found a leak, aim your antenna at it. You should then be receiving free cable The The reception may not be perfect, but what do you expect for nothing? To get better reception, try

one or more of the following:

 Position your antenna closer to the source of the leak

Use a higher gain (bigger) antenna
 Use a more powerful amplifier

If your leak still isn't adequate or you haven't found one at all, then use the following technique. Be careful with this one, as it will requily piss off the cable co., FCC, FBI, FAA, NSA, PUC, and your local chamber of commerce if you're cable co. happens to a member. Not to mention that if you get caupit, you could be charged with vandalism, theft of services and possibly sedition. You'll need the following:

- straight pin

- 8-10 foot length of magnet wire (length not critical)

- "liquid black tape", Newskin (liquid bandage), or similar spray-on insulator material

- soldering iron and solder

- crazy glue

To start, solder one end of the length of magnet wire to the blunt end of the straight pin. Then PAGE 17

Solder here Magnet Wire Apply insulating material, Leave tip clean

Covert CATY leak generator.

apply the insulator material to the streight pin, except for the pointed end. Let the insulator dry. The insulation on the pin is the important pert, as it is needed to prevent you from accidently shorting out your neighbors cable line. This will look something like Figure 3.

When that's done take assembly and crazy glue over to your neighbor that has cable TV. Find a nice run of coax and push the pin in. Make sure the tip has good contact with the center conductor of the coax. Then unroll the magnet wire and crazy glue it to the coax in a way that it won't be noticeable.

What you just did was add an antenna to your neighbors cable. You will now be able to enjoy the use of your wireless cable TV setup. The main problem with this setup is that the resulting Teak* will most assuredly be noticed by the cable co. who will come over and inspect everything. Your best bet is to install this device during the serily evening and remove it the next morning before the repair crews hit the road. This way, it is less likely to be detected, unless your cable co.'s repair crews work at night.

Continued From Page 11> perfboard. Don't forget to get something to hook

the battery to the board.

Hook up the battery and turn on the TV to channel 3. SLOWLY turn the TC and watch the TV. You should see the picture go craxy. If not, check all your connections. If everything is DK and still nothing happens, check your battery, it may have given up the ghost. Get a new battery. Time different channels. All I could get on channel if were a bunch of ayuiggly lines. But the most important thing to remember is to experiment!