TRACKING / HOMING DEVICE

UUE EXCLUSIVE DESIGN

Tracking devices are used by police, FBI, CIA, etc...everyday of every week. They are used to follow people, cars, or general watching. Civilians are limited to the technology they have access to, so we offer our unit that is extremely accurate for locating cars and people. This nice little unit can actually be planted on a person, in a book, in a walkman, etc...

How it works in general.....

We incorporated a car alarm remote unit. The unit was modified as to be used with a rechargeable battery and different antenna, approx 9.05" long. We fine tuned the frequency to be within 290mhz-312mhz. Garage doors and car alarms operate within this region. Normal remotes only have a useful on/off range of about 300", but with the correct battery and antenna and tuning-it can be picked up by the Rx and interpreted as a field strength by using an analog meter accurate to the microamp. This will give about a 1 mile line of sight range. To get even more range we used a scanner to stay locked on to the signal....the signal is distinct and has an audio tone. We used the field strength meter built into our scanner to keep on the tracker signal, it gave us about 3 miles of readable field strength. As you know the signal can bounce off of other metal objects in the area. So antenna positioning is important. If the Xmtr antenna is facing up, then so must the Rx antenna. It is better to either face the Xmtr antenna up or down, but never to the side.

What do you need???

Buy a cheap car alarm with a remote.

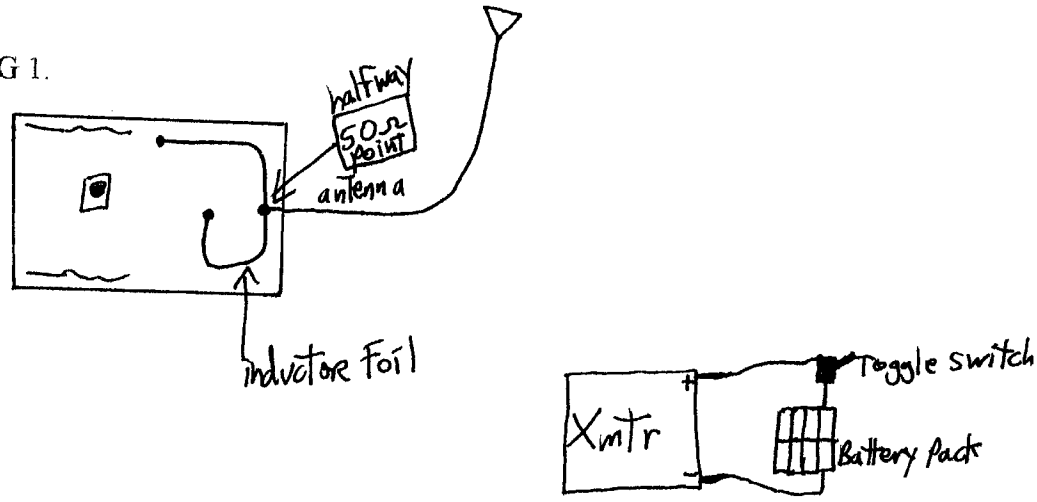
Take them both apart and remove them from their casings.

Xmtr:
short out the switch or push-button so it would stay on at all times.
hook up a toggle switch to a 12v battery and the input to the board.
solder an antenna 9 inches long on the 50 ohm curve of the inductor foil.

see fig 1.

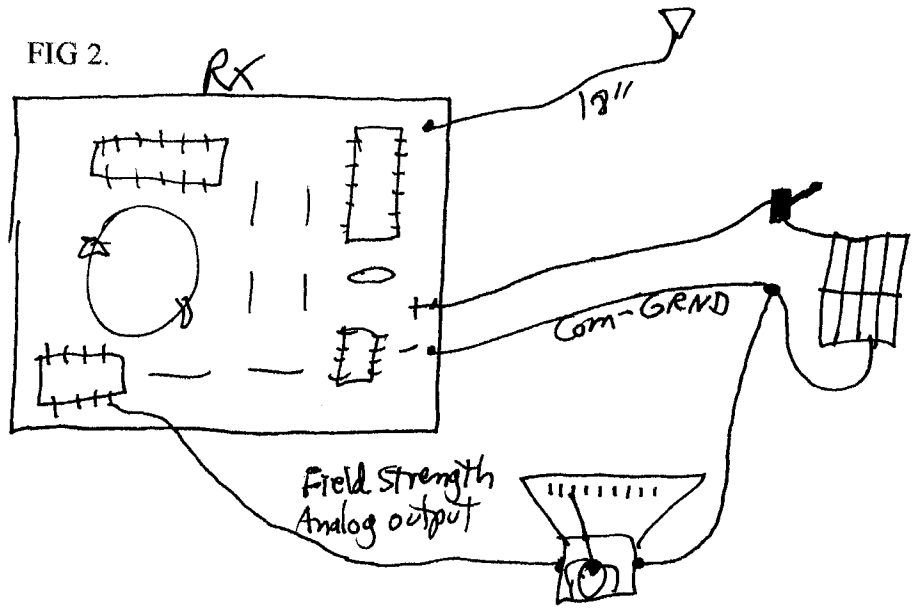
Rx:
remove the speaker or siren.
remove the movement sensor.
you can either keep the LED on or take it off.

FIG 1.



we sell the alarm/unit for $50.00 (high quality) $2.50 S/H

FIG 2.



DO NOT USE THIS DEVICE ILLEGALLY, IT IS YOUR RESPONSIBILITY TO CHECK YOUR GOVERNING LAWS ON LEGALITY OF THIS DEVICE.

hook up a toggle switch to a 12v battery and the input to the board.
solder an 18 inch antenna to the board where the old antenna was.

Using a logic probe:
find an analog signal from the receiver section of the alarm board. the logic probe will give a low for any voltage under 0-3 volts and a high for any voltage over 3-5 volts. you should be turning the alarm on and off and watching for the high/low flashes. once you think you have found a good ranged voltage use an analog meter to read the change in voltage from off to on. connect an appropriate analog field strength amp meter up to the analog output, this will give you your field strength. see fig 2.

When you have tested each unit and they work correctly you will need to place them in boxes or containers. Radio shack sells really nice blue boxes that work great for this project. about 5inches long x 2 inches high x 3 inches wide. blue...

The smaller circuit can be built into their smallest box.

GENERAL LOGISTICS:

XMTR:

XMT RANGE AROUND 3MILES
POWER CONSUMPTION WHEN ON AROUND 5MILLIAMPS
RF OUTPUT WHEN ON AROUND 60MILLIWATTS
OPERATING VOLTAGE 12VDC
SIZE AROUND 1INCHX1 1/4 INCHX.25INCHES
ANTENNA LENGTH 9INCHES

RX:

RX RANGE AROUND 1MILE
POWER CONSUMPTION WHEN ON AROUND 10MILLIAMPS
OPERATING VOLAGE 12VDC-14.5VDC
SIZE AROUND 4INCHESX3INCHESX.25INCHES
ANTENNA LENGTH 18INCHES