SONIC/PPG INSTRUCTIONS

APPLICATION

Your Phaser Property Guard System is capable of operating in two modes. Mode I is at a frequency that is known to produce paranoia, nausea, disorientation and many other physiological effects. Mode 2 allows using the system as an audible alarm to frighten off intruders or warn the user of an intrusion. Both modes may be used in combination and are easily controlled from the front panel by the user. Three separate jacks allow detection of a broken trip wire or contact foil, a pressure or actuating switch, and a positive voltage level pulse obtained from other detection equipment such as those listed in our catalog. The PPG100 series include our wireless #HALARM home alarm system that interfaces to the sonic unit via a two conductor cable. This combination provides a highly effective deterrent.

A WORD OF CAUTION:

Ultrasonic is a gray area in many respects when application involves the control of animals or even as a human deterrent to unauthorized intrusion. It is always best to consult with local municipal and state laws before using this device to protect home or property. REMEMBER MANY STATE LAWS LEAN MORE TOWARDS THE RIGHT OF THE CRIMINAL RATHER THAN THE VICTIM.

INSTRUCTIONS

1. Check units for any damage. Note inclusion of 4 transducers with prewired components, spool of wire with prewired mating plug, 10 small wire nuts, 4 brackets, 2 mating ***shorted*** phono plugs for J3 &J4, 3 mating phono plugs and 12DC/1A wall adapter with mating DCplug. *Special sale item may not contain transducer mounting kit or wall adapter.*

2. The position of the transducers should be so as to direct as much energy to the points of intrusion or access. They can be all directed to any target area or be individually placed for multiple effects. The power unit should be placed where the user can reset the device and preset the controls for max effect. See FIG showing the connections to the rear panel and controls.

3. Install transducers using brackets. Use a small container such as coffee can etc., to protect transducers from the elements if mounted outside. Attempt to mount under eave or other overhead protected spot.

4. Wire up using small wire nuts to twist connections together.

5. Note detection methods described on Page 4 and interface to system as desired. Some units may contain a jack J4 for remote controlling system.

6. Set up and test unit using controls as described. Note J3 must have a shorting plug to simulate a closed connection.

FRONT PANEL DESCRIPTIONS OF CONTROLS

LED - INDICATES UNIT IS TURNED ON

R9/S1 -TURNS ON MAIN POWER AND ADJUST FREQUENCY OF OUTPUT

R2/S2 - TURNS ON SWEEP AND ADJUST SWEEP RATE

S4 - RESETS UNIT AFTER IT HAS BEEN TRIPPED BY AN INTRUSION OR TEST SWITCH S5

REAR PANEL DESCRIPTION

FI - FUSE HOLDER

S5 - TEST SWITCH LOWERS FREQUENCY TO AUDIBLE LEVEL OR MANUALLY TRIGGERS ALARM

DC JACK - INPUT JACK FOR PLUGGING IN WALL ADAPTER TRANSFORMER 115 VAC TO 12 VDC. MAY ALSO CONNECT IN ANY SOURCE OF 12 VOLTS ABLE TO SUPPLY 1 AMP. ***MAY BE REPLACED BY RED AND BLACK CONNECTION LEADS.***

J6 - OUTPUT-CONNECT TO TRANSDUCERS USING NORMAL SPEAKER HOOK UP WIRE

J1 - CONNECT TO OTHER DETECTORS AND SENSORS PRODUCING A 5 TO 15 VOLT LEVEL WHEN TRIGGERED

J2 - CONNECT TO NORMALLY OPEN SWITCHES SUCH AS PRESSURE DEVICES ETC.

J3 - CONNECT TO NORMALLY CLOSED CIRCUITS SUCH AS WINDOW TAPPING, TRIP WIRES, ETC..OR USE P3 MATING SHORTING PLUG

J4 - OPTIONAL REMOTE CONTROL OR USE P4 MATING SHORTING PLUG

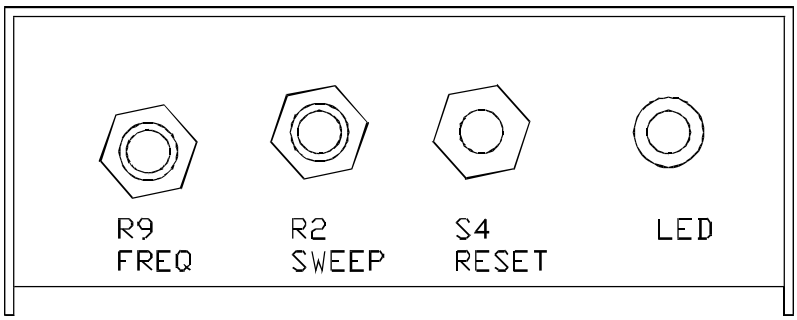
GENERAL INFORMATION ON ULTRASONICS

There have been numerous requests for information on the effect of these device on people. First, let me make it clear that no device such as this should purposely be used on humans and we discourage this use due to the possibility of acoustically sensitive people being highly irritated.

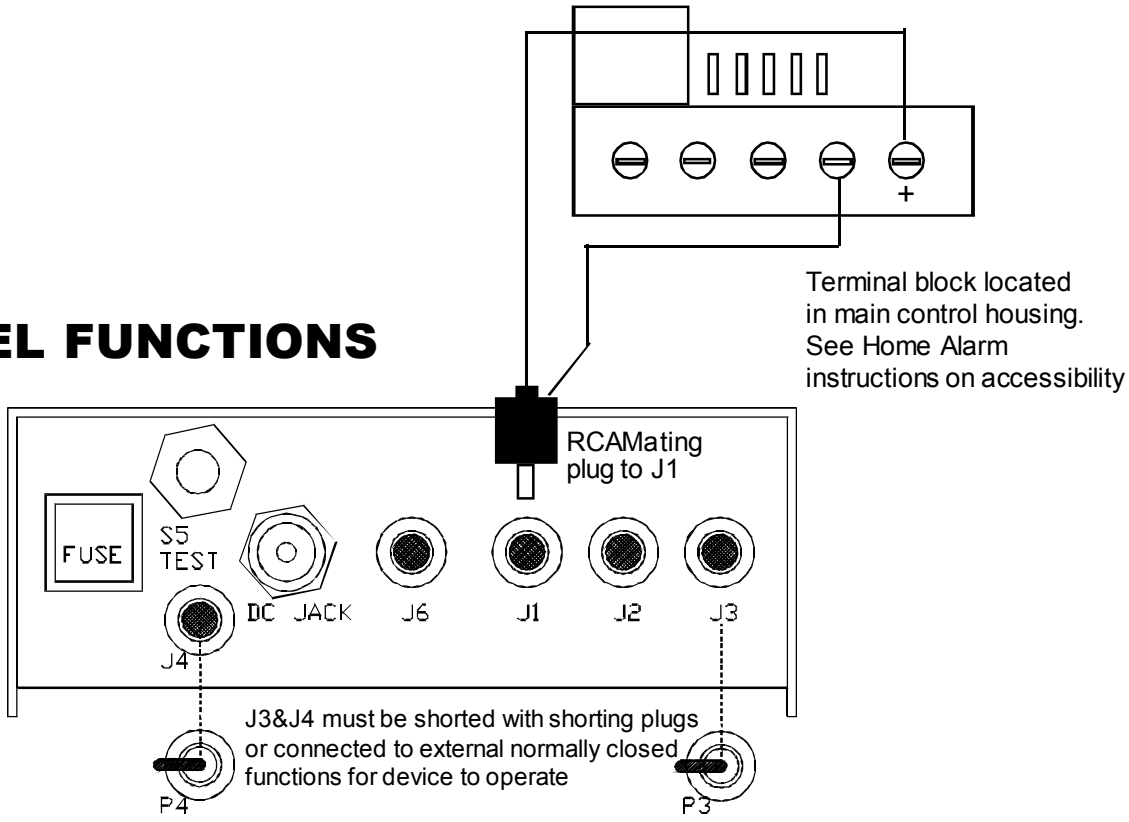
None of these devices have the ability to stop a person with the same effect as a gun, club or more conventional weapon. They will, however, produce an extremely uncomfortable irritating, sometimes painful effect in most people. Not everyone will experience this effect to the same degree. Younger women are much more affected than older men due to being more acoustically sensitive. The range of the devices depends on many variables and is normally somewhere between 10 feet and 100 feet.

One possible use of the device (that deserves careful consideration) is the installing of all transducers, directed to an area desired protected against unauthorized intrusion. This produces an irritating and painful feeling to the intruder along with a condition of paranoia of not knowing what to expect next.

FRONT PANEL CONTROLS



REAR PANEL FUNCTIONS



TRANSDUCER HOOKUP SCHEME

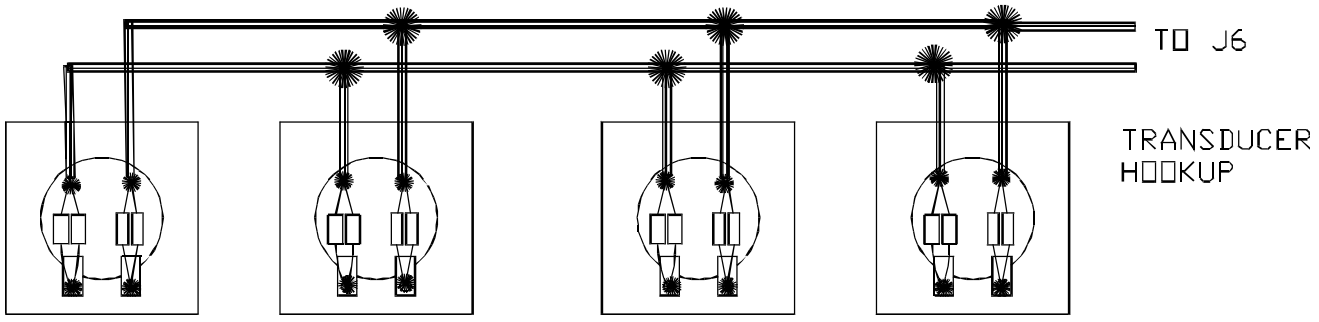
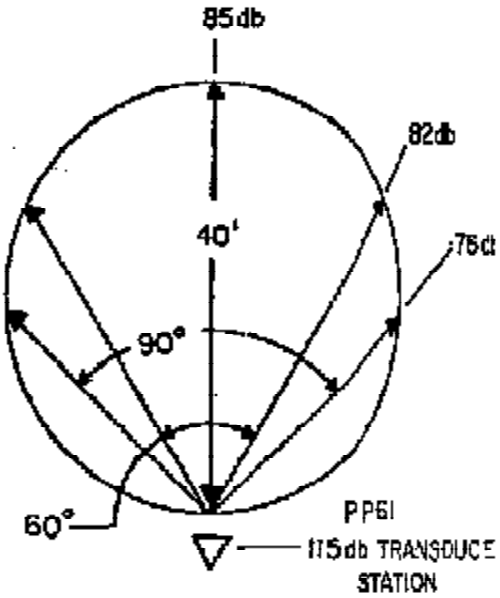


FIG 10
SOUND PRESSURE CHART

EAR DAMAGE	160 db	EXPLOSION, SHELL GRENADES, OUTSIDE DESTRUCTIVE SHOCK-WAVE RADIUS
	150 db	
	140 db	M16 AUTO RIFLE DOWN RANGE 10'
	130 db	THRESHOLD OF PAIN
PAIN		
	120 db	PPGI TO INTRUDERS
	110 db	CIRCULAR SAW, FIRE SIREN
	100 db	SUBWAY STATION THUNDER
VERY LOUD		
ANNOYING	90 db	BELT SANDER, VACUM CLEANER
	80 db	NORMAL CITY STREET
	70 db	PHONE RING AT 6' NORMAL SPEECH
	60 db	AIR CONDITIONER
COMFORTABLE		
	50 db	WINDOW FAN
	40 db	NORMAL OFFICE
QUIET		
	30 db	LIGHT BREEZE
	20 db	RECORDING STUDIO
VERY QUIET		
	10 db	LOW WHISPER
	0 db	THRESHOLD OF EAR FOR HEARING

SOUND PRESSURE INTENSITY CHART

DB RATINGS TAKEN AT 18' FROM SOUR
UNLESS OTHERWISE NOTED.



RADIATION PATTERN, SCALE 2.5"=40'
USE A LAYOUT TEMPLATE