

# Body Shadowing

Hold radio against your chest, using your body to shield the radio (body shielding).

Make a 360 degree rotation. Note the strongest signal.

Set squelch to highest setting so that signal breaks squelch only at strongest point.

If signal is too strong to squelch, then set radio slightly off frequency.

Make another 360 degree turn. Note where the signal fades out and where it returns.

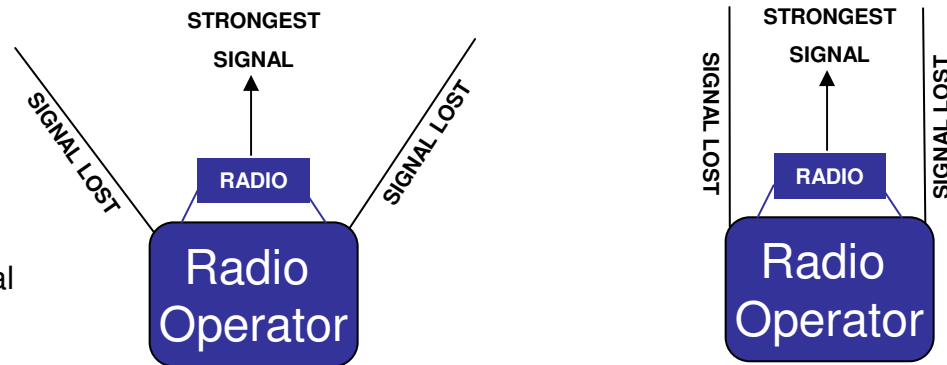
Go to the center point of where you received the strongest signal. Set the squelch so the signal barely breaks squelch.

Make another 360 degree rotation. You should have a decreased range where you hear the signal.

Continue the process until you are standing in one specific direction.

Take a compass bearing.

Plot on your map.



## Propagation Issues:

Remember that VHF is line of sight.

Buildings can block signals.

Signals can bounce off of buildings, mountain etc.

Signals may follow rivers or power lines.

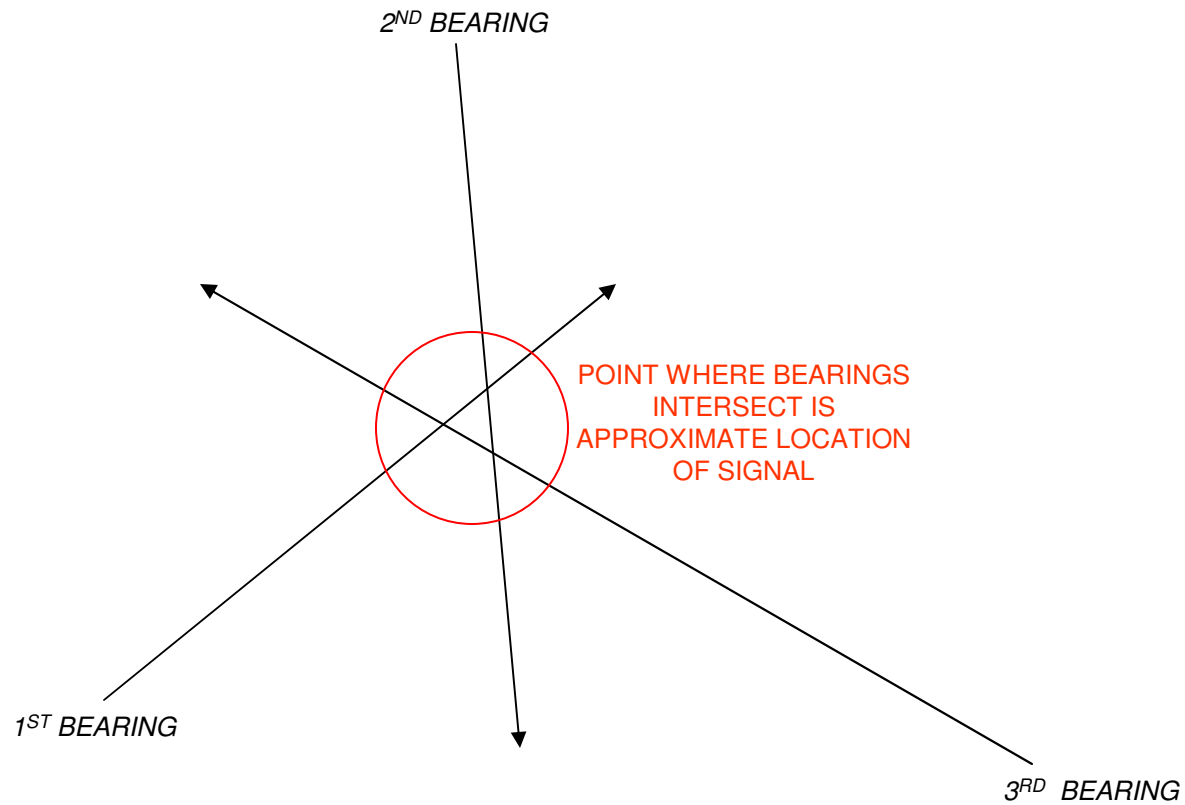
Go for the high ground, clear of obstructions.

Many times the earliest signals received are the truest. Don't be fooled by strong signals that may be bouncing all over.

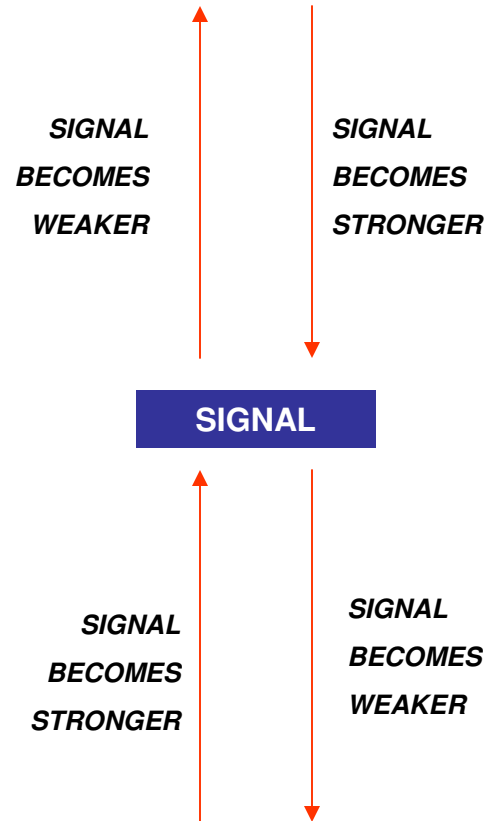
A radio signal can be directional or omni directional.

**TAKE YOUR BEARINGS! PLOT YOUR BEARINGS! FIND YOUR TARGET!  
DON'T BE DRIVING ALL OVER THE PLACE CHASING SIGNALS!**

# Triangulation



# Build and Fade



# Miscellaneous Information

- Magnetic Deviation for the Dallas area is 5 degrees east.
- Don't forget to adjust your magnetic bearing to a true bearing before plotting on a map.
- If the signal seems to be coming from multiple directions, you are hearing reflected signals. The strongest signal is usually the true signal.
- If you are encountering reflected signals, desensitize your receiver as much as possible to help filter out reflected signals.
- Also consider moving to a clearer area or to high ground to avoid obstructions.
- The higher the signal, the further it will travel.
- The less obstructions, the further the signal will travel.
- Don't be fooled by seemingly strong signals. Remember, desensitize your radio, take bearings, move in close and find your target.
- As you get closer to the target, you can continue to triangulate in a tighter area.
- If you are very close, or the signal is directional, the build and fade technique works well.
- Sniffing is a variant of build and fade where you do build and fade to specific objects, vehicles, buildings, etc.

# More Miscellaneous Information

