



9119 W. Veterans Dr., Homosassa, FL 34448

Phone: (352) 563-5855

Fax: (352) 563-5927

Website: <http://www.sportsradargun.com>

Email: [trina@sportsradargun.com](mailto:trina@sportsradargun.com)

Instructions for positioning the SR3600 Radar Unit for tennis serve speed applications.

TO REDUCE OR ELIMINATE THE COSINE EFFECT (IN DOPPLER RADAR THEORY) AND ACHIEVE MAXIMUM ACCURACY, ALIGN THE RADAR BORESIGHT IN THE DIRECT LINE OF TRAVEL OF THE BALL. IF THE BORESIGHT OF THE RADAR UNIT IS NOT IN THE DIRECT LINE OF BALL TRAVEL, THE RECORDED SPEED WILL BE LESS THAN THE ACTUAL BALL SPEED BY THE COSINE OF THE ANGLE BETWEEN THE BORESIGHT OF THE RADAR UNIT AND THE LINE OF TRAVEL OF THE BALL.

FIGURE 1 Court view from top

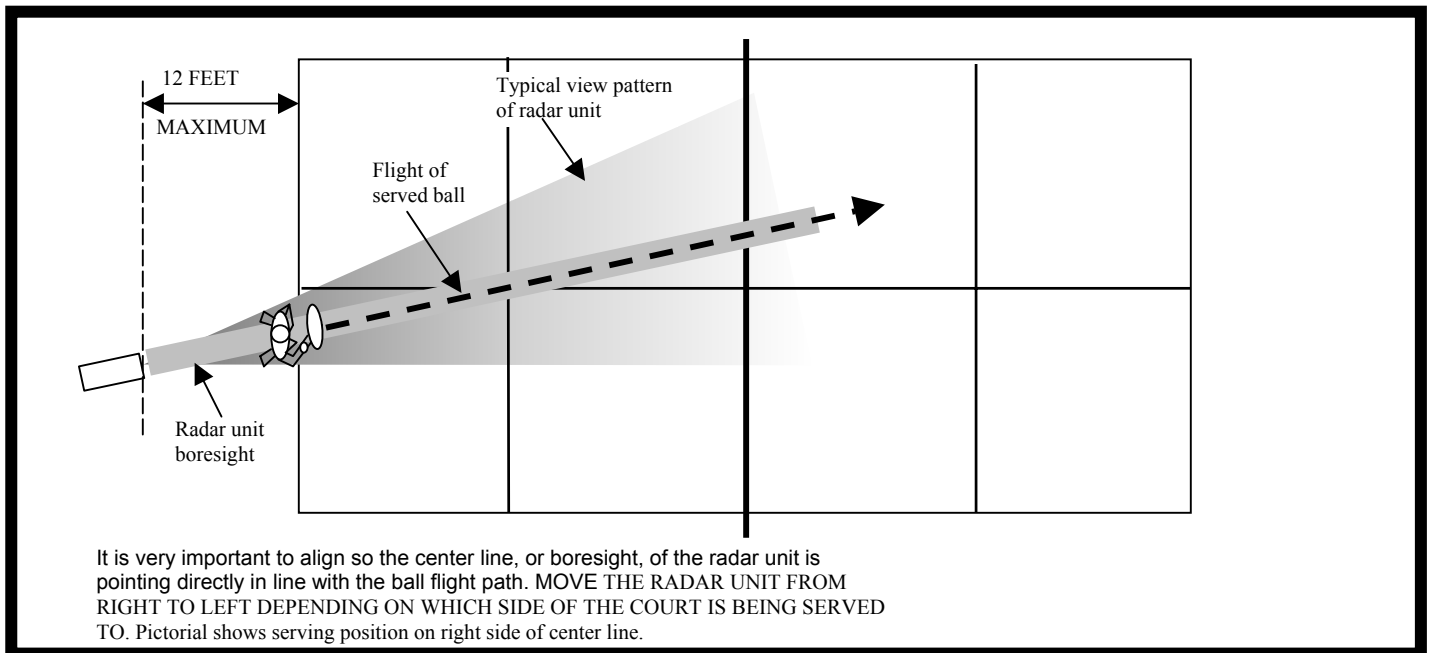
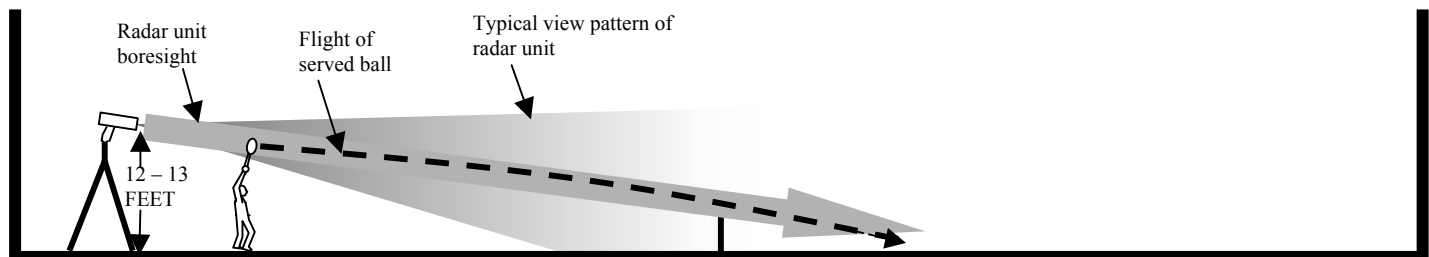


Figure 2 side view of court



It is very important to align so the center line, or boresight, of the radar unit is pointing directly in line with the ball flight path.