

STALKER[®]
The World Leader in Speed Measurement
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STALKER Pro II Baseball

Digital Sports Radar

Owner's Manual

How To Save Battery Life

Since the transmitter has the highest current draw, turn the transmitter off whenever you are not taking readings. If you use the trigger to start and stop transmitting, it's easy to save battery life. If you tripod mount the gun, (and use the silver TRANSMIT button to transmit) then turn the transmitter off between sessions.

Angle Errors

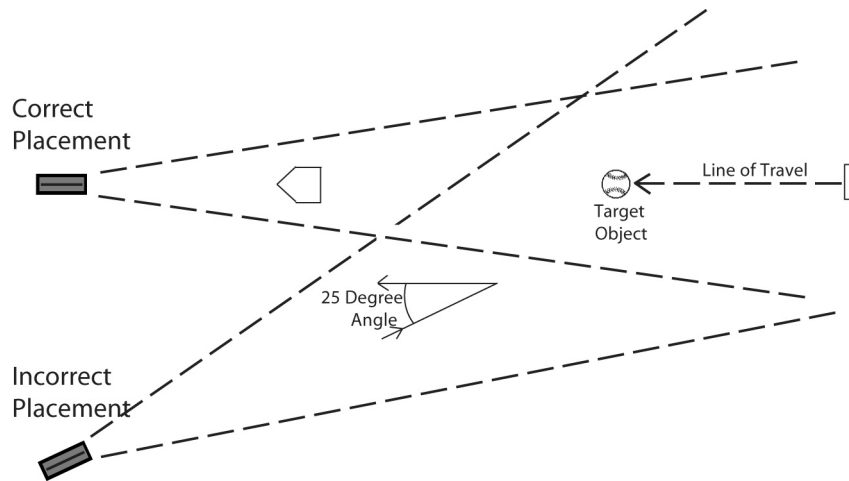
The most common mistake made with all radar guns is trying to clock targets at angles.

All radar guns work on the Doppler principle and need to clock objects moving directly at or away from the gun. Clocking at an angle with a stationary radar gun results in angle error, and the gun displays a speed that is LOWER than the actual speed.

Cosine Angle Error Chart

	0 Degrees	5 Degrees	10 Degrees	15 Degrees	30 Degrees	45 Degrees	90 Degrees
True Speed	0% Error	0.4% Error	1.5% Error	3.4% Error	13.4% Error	29.3% Error	100% Error
25.0 mph	25.0 mph	24.9 mph	24.6 mph	24.1 mph	21.7 mph	17.7 mph	0 mph
50.0 mph	50.0 mph	49.8 mph	49.2 mph	48.3 mph	43.3 mph	35.4 mph	0 mph
75.0 mph	75.0 mph	74.7 mph	73.9 mph	72.4 mph	65.0 mph	53.0 mph	0 mph
100.0 mph	100.0 mph	99.6 mph	98.5 mph	96.6 mph	86.6 mph	70.7 mph	0 mph
125.0 mph	125.0 mph	124.5 mph	123.1 mph	120.7 mph	108.3 mph	88.4 mph	0 mph
150.0 mph	150.0 mph	149.4 mph	147.7 mph	144.9 mph	129.9 mph	106.1 mph	0 mph

Radar Gun Placement



For accurate readings, the radar gun must be placed in the line of travel of the target. At slight angles, the error is very small; however, at larger angles, the error becomes substantial.

Also, when measuring hit balls, testing has shown that placing the radar approximately 30 feet behind the plate yields the best results.

NOTE: The Pro II Baseball can automatically adjust for angle error by changing the Cosine Angle settings in the Option MENU.

Calculating Angle Errors

If you know the angle at which you are clocking, you can calculate the actual speed by taking the radar reading and dividing by the cosine of the angle.

For example: if you are clocking at 30 degrees, and the gun displays 129.9 mph, take 129.9 and divide by the cosine of 30 degrees (0.866) to get a true speed of 150.0 mph.