

## SELECTING A YARDAGE TAPE USING 20 AND 40 YARD SETTINGS

The preferred most accurate system for choosing the correct yardage tape is by sighting in at 20 yards and 60 yards. If you are unable to sight in at 20 yards and 60 yards, you may sight in at 20 yards and 40 yards. This system, however, does require a bit more precise sighting and notation of the scale numbers on the sight in tape.

1. In order to select the proper tape you must have a safe range with a measured 20 yards and a measured 40 yards.
2. Your Optimizer Ultra comes with a 0-80 sight in tape installed on the dial. Extras are included in the kit. The numbers 0-80 are NOT yardage markers. They are merely a means of measuring and selecting the proper tape.
3. Sight in your bow at 20 yards. Move the sight pin up and down by rotating the dial. RIGHT HAND BOW, clockwise to raise your arrow, counter clockwise to lower your arrow.  
LEFT HAND BOW, counter clockwise to raise, clockwise to lower your arrow.
4. Once you have an extremely accurate sight in at 20 yards, mark and make note of the number on the sight in tape nearest the indicator needle. When sighting in at 20 and 40 yards you must be extremely precise in selecting the correct scale number. EXAMPLE: If your needle is closest to number 18, select 18, if it is closest to 19, select 19. If your needle is closest to the middle, select 18 ½.
5. Move out to a measured 40 yards. RIGHT HANDED SHOOTER, adjust the Sighting aperture downward by rotating the dial clockwise until you have achieved an accurate sighting at 40 yards. LEFT HANDED SHOOTER, adjust the sighting aperture counter clockwise. Caution: the accuracy of the entire shooting system depends on an extremely accurate sighting at both 20 and 40 yards.
6. Once you have an extremely accurate sight in at 40 yards, mark and make note of the number on the sight in tape nearest the indicator. Example (number 37 ½). lock the dial in place at 40 yards by rotating the knurled lock knob located inside the dial.
7. Subtract the 20 yard setting (small number, example 18) from the 40 yard setting (large number, example 37 ½) Example:  $37\frac{1}{2}-18=19\frac{1}{2}$ .
8. The yardage tapes are numbered from 29 to 72. Now that you have sighted in at 20 yards and 40 yards, use the following procedure to select the correct tape:
  - a. Subtract your 20 yard setting (Example: 18) from your 40 yard setting (Example 37 ½) Answer= 19 ½.
  - b. Using the CONVERSION CHART on the opposite page, select the correct tape.

## CONVERSION CHART

### 20 yard and 40 yard sightings

If your 40 yard setting

minus your 20 yard setting =	9 ½	Use Tape	21	21 ½	Use Tape	48
	10	" "	22	22	" "	49
	10 ½	" "	23	22 ½	" "	50
	11	" "	25	23	" "	51
	11 ½	" "	26	23 ½	" "	52
	12	" "	27	24	" "	53
	12 ½	" "	28	24 ½	" "	54
	13	" "	29	25	" "	55
	13 ½	" "	30	25 ½	" "	56
	14	" "	31	26	" "	57
	14 ½	" "	32	26 ½	" "	58
	15	" "	33	27	" "	59
	15 ½	" "	34	27 ½	" "	60
	16	" "	36	28	" "	61
	16 ½	" "	37	28 ½	" "	62
	17	" "	38	29	" "	64
	17 ½	" "	39	29 ½	" "	65
	18	" "	40	30	" "	66
	18 ½	" "	41	30 ½	" "	67
	19	" "	42	31	" "	68
	19 ½	" "	43	31 ½	" "	69
	20	" "	44	32	" "	70
	20 ½	" "	45	32 ½	" "	71
	21	" "	47	33	" "	72

SET-UP



**Example:**

$$\begin{array}{r}
 40 \text{ yds} \quad 37\text{-}1/2 \\
 20 \text{ yds} \quad \text{---} 18 \\
 \hline
 19\text{-}1/2 \quad = \text{ Use Tape } 43
 \end{array}$$

9. Carefully remove the correct tape from the booklet. It is not necessary to remove the 0-80 sight in tape. Locate the color coded yardage tape directly over the top of the sight in tape by placing the 40 yard marker (hot yellow) directly under the needle that you have locked in at 40 yards. Carefully roll the tape in both directions. The 20 yard (hot green) marker will fall exactly where you marked your 20 yard setting on the 0-80 tape. All of the yardages between 20 and 40 are now in place.
10. Remove one of the clear Mylar tapes from the set up kit and tie the two ends of the yardage tape together. This will prevent the ends of the yardage tape from coming loose.

