LYMAN EXTERNAL CONTROL—WINDAGE AND ELEVATION SYSTEM

INTRODUCTION: The windage and elevation adjustment system installed in this scope has been designed and manufactured to the most exacting tolerances. Final assembly of the system is accomplished by hand lapping the two major components together to provide you with a true zero backlash system, a control system required by the master rifleman.

CARE AND CLEANING: This system will provide you with many years of unexcelled performance with only minimum maintenance required. Dust and fine grain sand will rapidly deteriorate the performance of any precise instrument. Your scope should be protected when not in use by using lens covers and by keeping the windage and elevation control dust caps in place. Should your scope be exposed to blowing sand or dust during competition, thoroughly clean the controls with a small brush before storing. Periodic cleaning of the controls with a vacuum will assure you of many years of top performance.

ADJUSTMENT: The windage and elevation controlls installed in the scope have **40** clicks of adjustment for each 360 degrees of rotation. Each line on the adjusting knob corresponds to one click. Numerals, "0" thru "38", are spaced above every other click line. This adjustment range is sufficient to allow adjustment over a long range distance, without having to exceed 360 degrees of rotation, provided that the rifle-scope-load combination is **zeroed in** at mid-range. As an example in silhouette competition, using a 168 gr., 30 cal. Sierra bullet at 2700 FPS, you would zero in at 300 meters and have sufficient latitude to adjust down to 200 meters and up to 500 meters without having to exceed the 360 degree rotation.

ZERO RESET: The graduated knob installed on the system is adjustable, to allow you to set the dial at zero when the rifle is zeroed in at the range desired. This adjustment is easily accomplished by using the 1/16 inch allen wrench supplied and loosening the 6-32 allen head set screw on the knob. The knob is then simply rotated until the "0" mark on the knob lines up with the index mark on the control base. Once the alignment is correct simply tighten the set screw. This reset feature can be performed when ever you change loads or rezero your rifle.

THE RANGE BOOK: Table 1 of these instructions shows the point of impact shift value per click **in inches** for each scope over a range from 100 yards to 500 meters.

This information when used in conjunction with ballistics tables such as those included in the Sierra Bullets Reloading Manual will allow you to predetermine the approximate number of clicks required to shift the point of impact over a series of target distances. The most precise settings will be obtained by actual range shooting of the actual bullet/load combination. Data obtained from such testing should then be recorded in your own "Range Book".

TABLE 1.

Scope Model	POINT OF IMPACT SHIFT PER CLICK IN INCHES									
	100 Yards	100 Meters	200 Yards	200 Meters	300 Yards	300 Meters	400 Yards	385 Meters	500 Yards	500 Meters
6XSL	.550	.600	1.100	1.200	1.650	1.800	2.200	2.300	2.750	3.000
8XSL	.375	.400	.750	.800	1.120	1.220	1.500	1.600	1.900	2.100
10XSL	.300	.350	.600	.700	.900	1.000	1.200	1.300	1.500	1.700
20LWBR⅛	.125	.136	.250	.275	.375	.410	.500	.525	.625	.700
25LWBR⅛	.125	.136	.250	.275	.375	.410	.500	.525	.625	.700