

Congratulations!
You have purchased
"The World's Finest
Target 'Scope'"

Lyman

Super-Targetspots are available in
10, 12, 15, 20, 25 and 30 power

Your Super-Targetspot Scope was designed to meet the demand for a telescope having a dual purpose. This instrument is both a fine sighting and spotting telescope. It eliminates the necessity of using an auxiliary scope in order to "read" the placement of shots in the target. It provides excellent vision at 100 yards, and under good light conditions, shots at 200 yards can be seen with the higher magnification.

FOCUSING THE RETICULE FOR CLARITY

The reticule is brought into focus by adjusting the eyepiece (ocular lens) in or out in relation to the eye. As all Lyman scopes are factory adjusted mechanically to accommodate 20/20 vision, this adjustment is seldom necessary. It is required only in cases of imperfect or failing eyesight.

To focus the reticule, loosen the knurled lock ring located just forward of the eyepiece and turn it several full turns away from the eyepiece. Now, starting from its original setting, back off the eyepiece several turns away from the lock ring. Rest the telescope and point it at the sky. **DO NOT LOOK AT AN OBJECT OR TARGET.** Start slowly to turn the eyepiece toward the lock ring until the reticule becomes clear and distinct. When the reticule appears sharp and clear, rest your eye for several minutes and check it again. This rechecking of the reticule will assure that your eye is not accommodating itself to an incorrect setting. When the adjustment is correct, tighten the lock ring against the eyepiece. Unless your eyesight itself changes, the adjustment should always remain locked in this position.

VERTICAL AND HORIZONTAL RETICULE ALIGNMENT

Just forward of the threaded eyepiece section is a second knurled ring containing two screws. Turning this ring will pivot the entire reticule assembly. As your reticule has been adjusted into perfect vertical, and horizontal, alignment before leaving the factory, this adjustment is seldom, if ever, necessary. It does, however, allow the shooter a latitude of adjustment to correct for canting of the rifle or a slightly imperfect mounting.

To make this adjustment, merely loosen the two ring screws. **DO NOT REMOVE THESE SCREWS OR BACK THEM OUT TOO FAR.** Once the ring turns freely, pivot your reticule into position and retighten the screws.

FOCUSING YOUR SCOPE FOR RANGE

Your Super-Targetspot may be quickly and accurately focused to any desired range from 50 feet to infinity. This is accomplished by turning the graduated adjustment sleeve located at the front of your scope to the desired range position marked on the tube. The tube is marked with setting points for various ranges from 50 feet to 200 yards or over. Never adjust the sleeve below the "50 foot mark" or above "the 200 yard or over" mark. **YOUR NEW SCOPE HAS BEEN FACTORY SET AT THE 100 YARD POSITION**

To adjust your scope to another range, loosen the adjusting sleeve cap located at the front of the scope. Turn the adjusting sleeve until the zero mark on the sleeve aligns with the zero mark on the tube. From this point, you make your new adjustment. The table below shows the required complete turns in either direction for each specific range.

For example: screwing the sleeve **OUT** 5 complete turns from zero is the 50 foot setting. Screwing the sleeve **IN** 6 complete turns from zero is the 50 yard setting. Once your correct setting is made, **LOCK THE ADJUSTING SLEEVE CAP.** The objective lens is not positioned until this cap is securely locked.

TABLE OF RANGE SETTINGS*

50 feet	-5 full turns
25 yards	0
50 yards	+6 full turns
100 yards	+8 full turns
200 yards or over	+9 full turns

*The table above shows standard target distances. Intermediate range setting can be obtained by making use of the 0 to 20 graduations on the adjustment sleeve. These graduations are used as reference points to accurately compute quarter and half turns, etc. of the sleeve.

CARE OF YOUR TELESCOPE

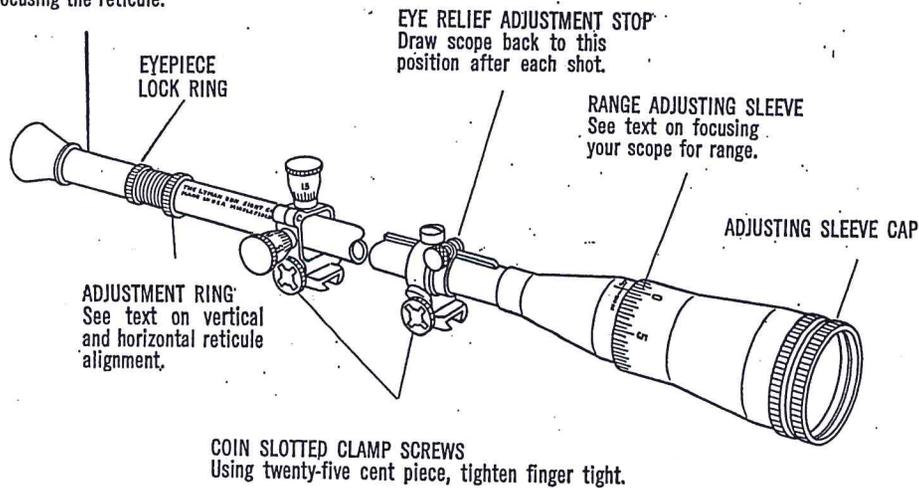
Lyman Scopes are so designed as to require very little attention. With all of the optical elements being gasket sealed, outside dirt or moisture cannot enter the instrument. Occasionally a careful wiping of the outer surfaces with a soft cloth, or paper handkerchief, is all that will be necessary to keep the optics in good working order. If the outer surfaces become smeared with oil, or foreign matter, a small amount of liquid (type used on eye glasses) should be applied to a paper handkerchief and carefully wiped on the lens surfaces. If the surfaces are extremely dirty, use a camels hair brush to remove any grit which would scratch the optical surfaces.

It is never necessary to remove any of the optical elements to clean them. Special tools are required to remove the optical elements and a telescope should be disassembled only at the factory.

Super-Targetspot models should at all times be used with a fine film of oil, or equivalent lubrication, on the tube, and at mount bearing points. This is especially true on large caliber rifles.

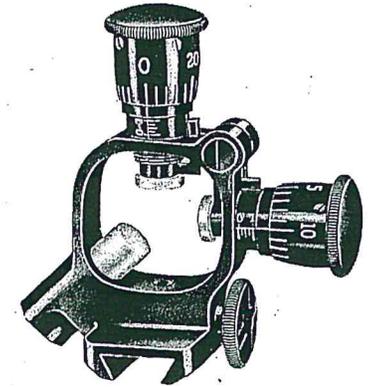
EYEPIECE

Do not adjust until you have read text on focusing the reticule.



3-POINT SUSPENSION MOUNTS

The Lyman 3-point suspension rear mount provides markings on the windage and elevation bases which read the same as a micrometer. When bases are placed 7.2 inches apart, one click of either adjusting knob will change the center of group 1/4 minute, or 1/4 inch at 100 yards. Naturally, different spacing of the bases will have an effect on the click values and must be compensated for. The table below indicates the click values obtained from 7.2 and 6 inch spacing.



WINDAGE AND ELEVATION VALUES

Range	Distance Between Bases	
	7.2"	6"
50 feet	.039"	.050"
25 yards	.062	.075
50 yards	.125	.150
100 yards	.250	.300
200 yards	.500	.600
300 yards	.750	.900
400 yards	1.000	1.200
500 yards	1.250	1.500
600 yards	1.500	1.800
700 yards	1.750	2.100
800 yards	2.000	2.400
900 yards	2.250	2.700
1000 yards	2.500	3.000

Both front and rear mounts are of the 3-point suspension type. The rear mount has non-rotating nylon racker bearings which hold the tube without marring. The weight of the scope in the front mount is supported on two definite (nylon) bearing points against which the scope is held by a top spring and plunger. The rib on the top of the tube prevents the scope from turning.

TARGET BASES

Most target rifles are equipped with suitable bases for the Lyman 3-point suspension mount. On rifles not so equipped, we recommend that only Lyman target bases be used. Lyman target bases are carefully hardened and this hardness plays an important part in the satisfactory results to be obtained from a Super-Targetspot.

FACTORY SERVICES

We endeavor to expedite all service and repair work. As a rule the majority of scope service work will be returned within one week following receipt of shipment. Scopes requiring refinishing may require an additional week at the factory. The prices listed below are f.o.b. Middlefield, Conn. and cover the cost of replacement parts and necessary labor for each type of service.

RETICULE CHANGE (except dot)

The .0007" crosswire is regularly furnished as the standard reticule with all Super-Targetspots. New reticules can also be installed with .0005" or .001" crosswires. **\$5.00**

RETICULE CHANGE — Dot

Dot reticules may be installed in the following sizes: 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", or 1 minute **\$12.50**
(1 minute equals 1" at 100 yards)

CLEANING & FOCUSING **\$9.00**

CLEAN, FOCUS & REFINISH **\$32.00**

POWER CHANGE

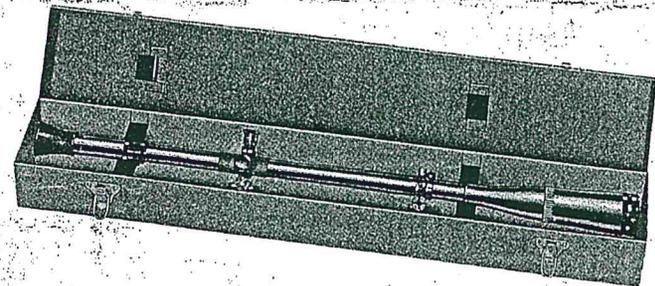
Changing the eyepiece of a Super-Targetspot will not in itself affect a complete power change. To retain maximum field of view, brightness, and eye relief, internal cells and diaphragms must be altered. Conversions to 25 or 30 power also require an optic change. Prices for power conversions are as follows:

Power change to 10, 12, 15 or 20X **\$12.00**
Power change to 25 or 30X **\$32.00**

RECOIL SPRING (Installed) **\$6.00**

ACCESSORIES AND REPLACEMENTS

Haze Filter	\$3.25	Carrying-Case — Constructed of heavy gauge metal and padded to insure snug fit \$12.00
Sunshade	4.00	
Recoil Spring (not installed)	5.50	
Target Scope Bases (set)	3.00	
		Replacement set of Lens Caps 3.50



LYMAN PRODUCTS FOR SHOOTERS
MIDDLEFIELD, CONNECTICUT

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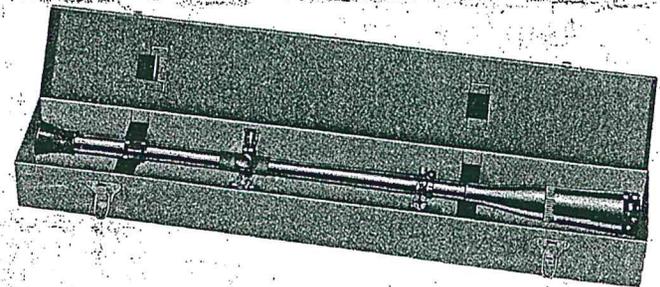
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