

THE LYMAN

All-American

HUNTING SCOPES

Here's a genuine Lyman scope — with *full* power magnification — at a low price, it's worth looking into! The new All-American offers features formerly only in the higher priced Lyman hunting scopes.

COMPARE THESE OUTSTANDING FEATURES

- Full stated power from finest lenses . . . coated and needle sharp. Wide, clear field of view.
- Protected throughout for all-weather hunting.
- Entire scope is rugged . . . cushion mounted lenses; accurate click adjustments are recoil proof.
- American made — Lyman service guaranteed.
- Top quality in every detail, uniformity from scope to scope.
- Lightweight alloy tube standard for popular mounts. Steel tube on special order at no extra cost.
- Choice of 3 reticules. Lee Dot at \$10.00 extra.



YOUR GREATEST SCOPE VALUE

Now there's no need to settle for less than the best, Get a top quality Lyman All-American hunting scope. You can buy with confidence at a price that makes it *your best scope* buy anywhere at any price!



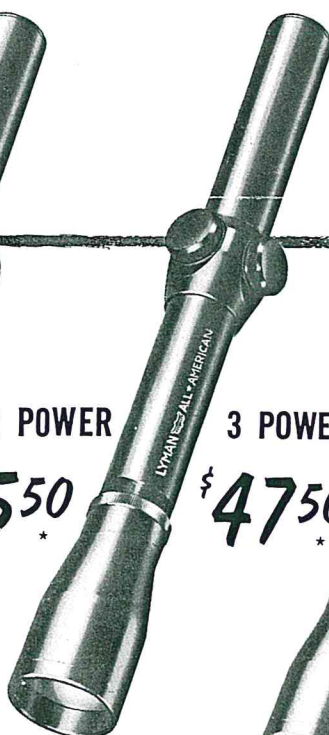
4 POWER

\$49.50



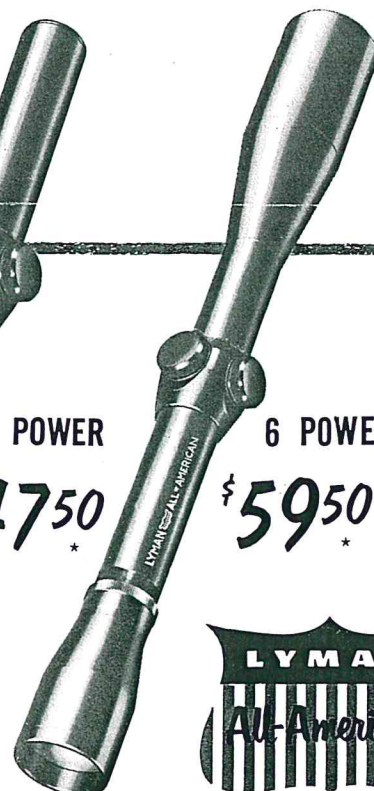
2-1/2 POWER

\$45.50



3 POWER

\$47.50



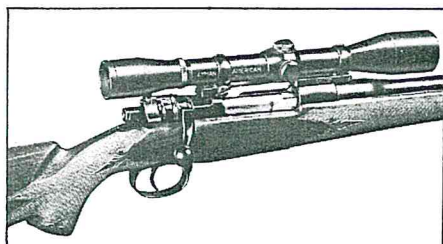
6 POWER

\$59.50

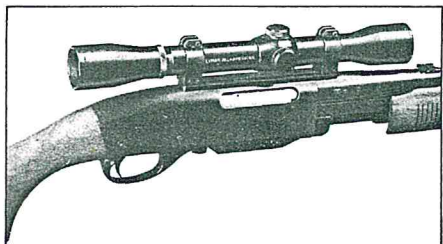


SPECIFICATIONS

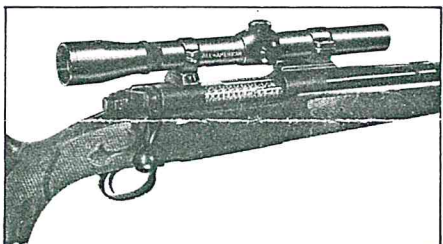
	2-1/2 POWER	3 POWER	4 POWER	6 POWER
Field of View (100 yds.)	44'	36'	30'	20'
Main Tube Diameter	1"	1"	1"	1"
Eye Lens Cell Diameter	1-7/16"	1-7/16"	1-7/16"	1-7/16"
Objective Cell Diameter	1"	1"	1-7/16"	1-3/4"
Light Transmission	86%	86%	86%	86%
Weight (aluminum alloy)	9 oz.	9 oz.	9 oz.	12 oz.
Length	10-5/8"	11-1/4"	12"	13-5/8"
Eye Relief	3-1/4"-5"	3-1/4"-5"	3-1/4" to 5"	3-1/4"-5"
Exit Pupil	8.1MM	6.8 MM	8MM	6.4MM
Objective Free Aperture	.810"	.810"	1.230"	1.440"
Value of Each Click of Adjustment	1 min.	5/8 min.	1/2 min.	1/3 min.



6X All-American on Mauser with Buehler Mount.



4X All-American on Remington 760 with Stith Mount.



2 1/2X All-American on Winchester 70 with Tilden Mount.



4X All-American on Winchester 94 with Griffin & Howe Mount.



DIRECTIONS

The ocular and objective cells of the All-American are removable for mounting the scope in the standard 1" SOLID rings of all popular mounts. Do not attempt to remove the special all-weather grease from the threads of these cells. Since the scope is pre-focused at the factory for normal vision, you should note carefully the location of the locking ring so that the ocular cell can be replaced to factory position. Only a turn or two in or out from this setting will be needed for near or far-sighted eyes, respectively. Be sure to focus against a neutral background such as the sky, without staring at the reticule. The tendency is often to turn the ocular too far in, thereby losing power and definition.

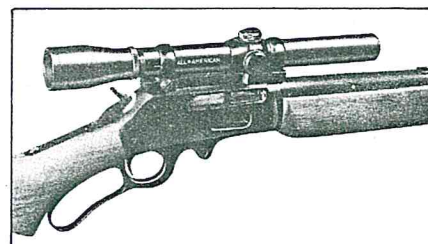
When mounting, care should be taken not to scratch the tube. Most mount rings will straddle the adjustment housing, giving you wide latitude for eye relief, but care should be taken in sliding the scope in the rings, or rotating for reticule alignment. Sharp edges of mount rings may be honed before installing to avoid scratching.

Bore-sight carefully at a minimum of 50 yards before drilling or tapping holes for mount bases so that little internal adjustment of the reticule will be needed. The All-American optical and mechanical centers coincide so that proper installation of mount and scope by bore sighting can be accomplished.

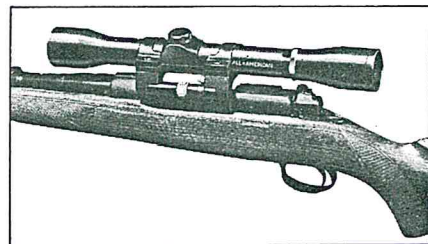
On hunting trips avoid subjecting the scope to extreme changes in temperature when possible. Each scope is built in a low humidity, air conditioned room to prevent fogging. If some care is taken to choose a dry day to install and sight-in, the scope will thereafter remain fog free.

To zero the dial plate of the adjustments, place a pointed object in the proper hole and turn by moving in the direction of the split in the dial, not away from it. When pressure is removed the dial plate will hold tightly.

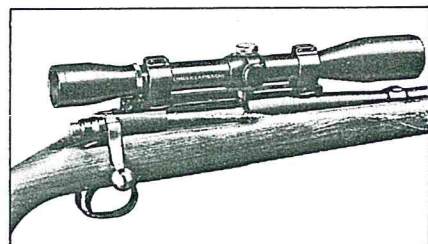
After sighting-in, replace the all-weather caps snugly against the rubber gaskets to insure against moisture entering the internal adjustments.



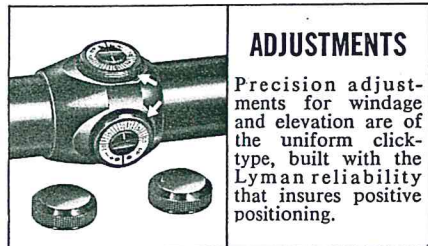
2 1/2X All-American on Marlin 336 with Buehler Mount.



4X All-American on Winchester 70 with Pachmayr Mount.



6X All-American on Remington 722 with Williams Mount.



ADJUSTMENTS

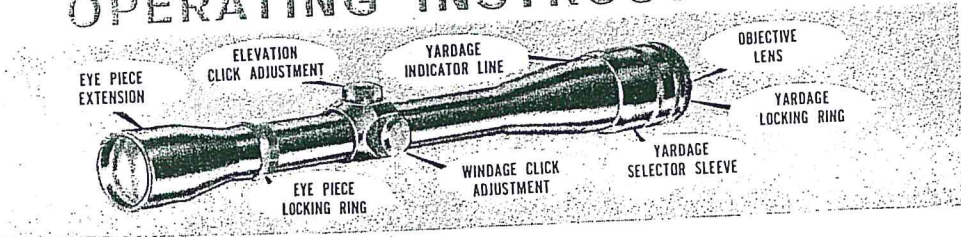
Precision adjustments for windage and elevation are of the uniform click-type, built with the Lyman reliability that insures positive positioning.

Lyman

ALL-AMERICAN
PERMA-CENTER SYSTEM

TELESCOPIC SIGHTS

OPERATING INSTRUCTIONS



SPECIFICATIONS

ONE OF THESE FINE SCOPES
IS MADE TO ORDER FOR YOU
YOUR RIFLE, YOUR KIND OF SHOOTING

Select your scope on the basis of power or magnification. Lower powers give you widest field of view; they're excellent for snapshots of running game, or deer-stalking in dense woods. The higher powers with their narrow fields are for long range big-game hunting, and varmint shooting.

POWER	LENGTH	WEIGHT
2½X	10½"	8¾ oz.
3X	11"	9 oz.
4X	12"	10 oz.
6X	13⅞"	12¼ oz.
8X	14⅜"	13 oz.
10X	15½"	13½ oz.

TUBE DIAMETER	WINDAGE AND ELEVATION ADJUSTMENT — CLICK VALUES AT 100 YARDS <i>(For click values at 50 yards, divide by 2. At 200 yards, multiply by 2.)</i>	FIELD OF VIEW AT 100 YARDS <i>(Width of area viewed in scope at given distance)</i>	EYE DISTANCE OR RELIEF OPTIMUM	FACTORY PRE-SET PARALLAX — CORRECTED RANGE OPTIMUM
1"	1"	43'	3 $\frac{1}{4}$ —5"	100 yards to infinity
1"	7/8"	35'	3 $\frac{1}{4}$ —5"	
1"	3/4"	30'	3 $\frac{1}{4}$ —5"	
1"	1/2"	20'	3 $\frac{1}{4}$ —5"	150 yards to infinity
1"	1/3"	14'	3 $\frac{1}{4}$ —5"	Adjustable for parallax correction
1"	3/10"	12'	3 $\frac{1}{4}$ —5"	

PERMA-CENTER SCOPE RETICULE SELECTION CHART

In the Perma-Center System the image is actually moved across the reticule. Thus the reticule is always centered in the field of view and never interferes with the sight picture.

The chart at the right represents that amount of target area covered by the reticule at the optimum range of 100 yards.

SCOPE MODEL	NO. 7 STANDARD CROSSWIRE	NO. 5 TAPERED POST AND CROSSWIRE
	Available center subtends at 100 yds.	Available Post Tip subtends at 100 yds.
2½X	2"	1½-2"
3X	1½"	1½-2"
4X	1¼"	1¼-1¾"
6X	½"	1¼-1¾"
8X	⅜"	1 - 1½"
10X	¼"	¾-1¼"

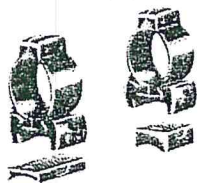
NO. 6 TAPERED POST	4 MINUTE DOT	3 MINUTE DOT	2 MINUTE DOT	1 MINUTE DOT	½ MINUTE DOT
Available Post Top Subtends at 100 Yds.	Available Dot Subtends at 100 Yds.				
1½—2"	4"	3"	2"	—	—
1½—2"	4"	3"	2"	—	—
1¼—1¾"	4"	3"	2"	—	—
1¼—1¾"	—	3"	2"	1"	—
1 —1½"	—	—	2"	1"	½"
¾—1¼"	—	—	2"	1"	½"

TRU-LOCK® MOUNTS

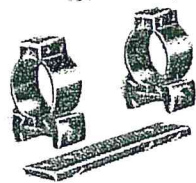
QUICKLY REMOVABLE • CLOSE FITTING • ACCURATE • RUGGED • GUARANTEED

Designed specifically for

ALL-AMERICAN PERMA-CENTER SCOPES



2-PIECE BASE
Famous 4S Sight
lock bolt feature,
in combined ring
and dovetail unit,
allows instant re-
turn to zero.



**1-PIECE
BASE**
Viewed from
right side.

Popular sizes — 1", 1.023" (26 M/M), 7/8" (and 22 M/M), 3/4" bases for over 40 popular hi-powered rifles

INSTALLATION OF THE TRU-LOCK MOUNT

POSITIONING THE RIFLE BASE — On all rifles, the rifle base is mounted with its notch to the right of the receiver. For 2-piece bases, the front base is marked "BF" and the rear base "BR". The correct location of the base is apparent on all rifles.

ASSEMBLING RINGS AND RING BASE — Be sure the screwheads at the top of the rings are to the left — as well as the lock bolt knob on the ring base. Then put the split rings into the ring base, half a ring at a time, tipping to place the dovetail into its proper position. Spread the rings to drop in the scope. Now replace the screws at the top of the split rings.

POSITIONING THE RING BASE — Put the ring base on the rifle base by hooking the dovetail at the left, and tipping to the right. Turning the lock bolt clockwise tightens the lock bolt into the notch of the rifle base. As it starts to tighten, pull the ring base to the rear to insure that the lock bolt is seated in the notch at its deepest point. Complete the tightening with a large coin until it is firmly secured. To remove the scope, turn both lock bolt knobs counterclockwise, and tip the scope to the left.

	RIFLE	1-Piece Base	Front Base	Rear Base		RIFLE	1-Piece Base	Front Base	Rear Base
WINCHESTER					HUSQVARNA				
*Model 88		B-3			*Husqvarna with large ring receiver		BF-11	BR-33	
*Model 100		B-3			*Husqvarna with small ring receiver		BF-14	BR-33	
*Model 70 (All post-war models except 300 H&H, 375 H&H and 458 Win.)			BF-10	BR-31	BROWNING				
*Model 70 (300 H&H, 375 H&H and 458 Win.)			BF-10	BR-32	*Model Hi-Power (All except 243 and 308 cal.)		BF-11	BR-33	
REMINGTON					*Model Hi-Power 243 and 308 cal.)		BF-15	BR-33	
*Model XP100 and 600		B-4			MAUSER				
*Model 721, 722, 725 and 700		B-2	BF-10	BR-30	Model 98 (All rifles which have "large", 1.410" dia. receiver ring.)		BF-11	BR-34	
*Model 740, 742 and 760					Model 91, 94 Swedish, 93, 95, 33 Mexican, (All rifles which have "small" 1.300" dia. receiver ring.)		BF-14	BR-34	
MARLIN					*F.N. Mausers		BF-11	BR-33	
*Model 336 (All versions)		B-1	BF-11	BR-33	SPRINGFIELD				
*Model 455					Model 1903 and M22		BF-13	BR-37	
SAVAGE					Model 1903-A3		BF-13	BR-38	
*Model 99 (All versions including those with thumb safety)			BF-12	BR-36	ENFIELD				
*Model 110 (Both right and left hand models)			BF-10	BR-35	U.S. Model 1917 and British Pattern 14		BF-10	BF-10	
J. C. HIGGINS					British Lee Models (bases not avail.)				
*Model 45		B-1	BF-11	BR-33	ARISAKA				
*Model 50, 51L and Western Field 750					Models 38 and 99		BF-10	BR-39	
COLT					WEATHERBY				
*Model Coltsman F.N.			BF-11	BR-33	*Model Mark V		BF-10	BR-30	
JEFFERSON					*Older Models (Using F.N. actions)		BF-11	BR-33	
*Model 158			BF-11	BR-33	RUGER				
					*Model Deerstalker cal. 44 mag.		BR-33	BR-31	
					*Model 10/22, cal. 22		BF-15	BR-31	

WHAT
ABOUT
PARALLAX?

The Lyman 8X and 10X Perma-Center Varmint Scopes are designed so that adjustment to remove parallax can be made for the specific distances at which the scope is to be used. The 50-yard setting removes virtually all discernible parallax at ranges of 50 to 100 yards. The 100-yard setting does the same at ranges of 100 to 200 yards. The 200-yard setting from 200 yards

to infinity. If desired, the adjustments may be set at any point between the graduations to achieve an ultra fine degree of parallax adjustment. Bear in mind, when adjustment is made to any of the yardage indicators, any parallax present at ranges slightly above or beyond specified setting would be insufficient to cause sighting error.

PARALLAX
ADJUSTMENT
FOR 8X AND
10X SCOPES

1. First check the forward end of your scope to be certain that the 100-yard graduation is flush with the indicator line. All adjustments are made from this point; it is most important that it be returned to this setting before any adjustments are made.
2. Loosen the locking ring on the forward end of the scope.
3. With the objective lens (forward end) pointing away from you, twist the yardage selector sleeve to your right for the 50-yard setting, or to your left for the 200-yard setting, until the desired yardage reading is flush with the indicator line. It is never necessary to turn this selector sleeve more than one full turn.
4. Turn the locking ring tight. Adjustment is never completed until this ring is tight.

WINDAGE AND ELEVATION ADJUSTMENTS

These adjustments are accomplished by positive click movements. Each click has a known value in terms of moving the point of impact a prescribed distance on the target at a known range. For click values for the various scopes at 100 yards see specification chart, pages 2 and 3.

RE-ZEROING THE PERMA-CENTER RETICULE

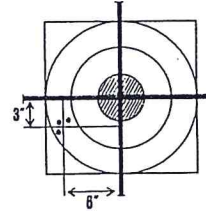
Your scope is pre-set at the factory to provide perfect centering. However, if the windage and elevation screws have been turned since the factory setting, they can be re-zeroed by first unscrewing both the elevation and windage screws counter-clockwise until they come to a stop. Then turn each screw clockwise four full turns. This will provide the zero or centered setting.

FOCUSING RETICULE

1. Loosen the knurled ring on the eyepiece.
2. Back off the eyepiece several turns away from the knurled ring.
3. With the telescope pointed skyward (not at an object or target), start to turn the eyepiece toward the knurled ring until the reticule becomes clear and distinct.
4. Tighten the knurled ring against the end of the eyepiece.
5. You are now in focus for reticule.

SIGHTING IN

1. For best results, select a target at least one yard square.
2. Set it at a distance of 100 yards.
3. Take a bead on the center of the target and fire a 3-shot group. If possible, use a rest, and maintain the same hold for each shot.
4. Now measure the distance from the center of the target to the 3-shot group, and adjust the scope. For example, if you are using a 4X scope and the group is 3" low and 6" left of center, adjust the elevation 4 clicks up and 8 clicks to the right. This adjustment may vary slightly, depending on the caliber of the rifle, but any additional adjustment can then be made easily to achieve precise zero.



Turn up 4 clicks
Turn left 8 clicks

FACTORY SERVICES

1. Reticule change, all scopes to dot reticule. 2. Reticule change, No. 7 to No. 5, or No. 5 to No. 7 crosswire. 3. Clean and refocus. 4. Clean, focus and refinish. 5. Parallax adjustment for less than standard yardage.

QUOTATIONS

See your Lyman Scope Dealer or write to the factory.

- To protect lenses against damage when storing and transporting your rifle, we recommend the use of Storm Queen End Caps.
- Do not remove sealing material from any threads on scope, for if you do the scope will no longer be weather tight, and weatherproof guarantee will be void.
- Do not open either end of the scope. This permits moisture laden air to enter the telescope and when confined will result in condensation when the temperature changes.
- Do not attempt to remove the lenses or the seal against moisture will be broken.
- If hunting in cold climate keep gun and scope in cool place within the house. This prevents possible condensation from temperature changes.
- Remove oil from tube where it is under mount. This permits slide-proof grip by mount without over-tightening.
- Be certain to position scope in mount brackets to maintain optimum eye distance of $3\frac{1}{4}$ ".
- Use only soft cloth or lens tissue to wipe lenses.
- If lenses become smeared with oil or foreign matter — use lens cleaning fluid obtainable from most optometrists. Do not use fluids containing alcohol.

In the installation of the telescope on the rifle, check all mount parts to make sure that hold down screws are secure, for a large percentage of erratic shots can be attributed to loose mounting.



THE MAN WHO OWNS A **Lyman**

ALL-AMERICAN PERMA-CENTER TELESCOPIC SIGHT

is a man equipped to enjoy the enormous fun of shooting . . . and take pride in his marksmanship. He owns the best scope in the world . . . and he can't miss.

In addition to telescopic sights, Lyman Gun Sight Corporation is one of the world's foremost manufacturers of . . .

- Shotguns Chokes
- Shotgun Sights
- Metallic Rifle Sights
- Reloading Tools, Dies and Accessories for rifles, pistols and shotguns
- Bullet Casting Tools and Accessories

All of these products for the sportsman are available through Authorized Lyman Dealers — 1,500 of them across the United States and abroad. Check with the Dealer in your area, or write us direct, for a copy of our latest general catalog describing the entire Lyman gun accessory line.

Telescopic Sight Division • The Lyman Gun Sight Corporation • Middlefield, Conn., U.S.A.

AAPCI

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