



INSTRUCTIONS FOR WEAVER-SCOPES

W. R. WEAVER COMPANY/EL PASO, TEXAS 79915

YOU OWN ONE OF THE WORLD'S FINEST SCOPES . . .

For over 40 years, Weaver has led the industry in scope design, innovation, and manufacturing. Your new Weaver-Scope is the result of these years of research and technology. We firmly believe that you cannot match Weaver quality in any other scope for anywhere near the money.

Before using your new Weaver-Scope, please read this booklet and follow the detailed instructions given. This simple procedure will assure you years of excellent service from your investment.

Again, thanks for buying a Weaver.

FORTY YEARS OF LEADERSHIP

In 1930, Weaver introduced the first practical, reasonably-priced scope. Since that time, Weaver has been acknowledged as the leader in telescopic sights.

OWNER'S RECORD

Scope Model _____	Date Purchased _____	
Power _____	Reticle _____	Price _____
Dealer Name _____	Phone _____	
Dealer Address _____		
City _____	State _____	Zip _____
Distinguishing details (Engraving, marks, etc.) _____		

Mounted on (make & model rifle) _____		
Serial Number _____	Caliber _____	
Distinguishing details (Engraving, modifications, etc.) of rifle _____		

Mount _____	Mount Base _____	

This forty years of research and development assures every Weaver-Scope owner of the finest sighting equipment available.

We've learned over the years to maintain the most critical quality control measures in the industry. All scope and mount components must be manufactured right here in the plant. Not only manufactured, but designed, assembled, inspected, and tested here, too. We've learned that lenses up to our standards must be ground and polished to exacting tolerances in our own shops.

It's this overwhelming attention to total quality and to every detail that makes a Weaver-Scope such an excellent investment for any shooter or hunter.

A QUALITY SCOPE FOR EVERY SHOOTER

Weaver builds twenty-one different models. From the all new Wider-View Models to the D Models, Weaver offers a scope to match every shooting requirement and price range.

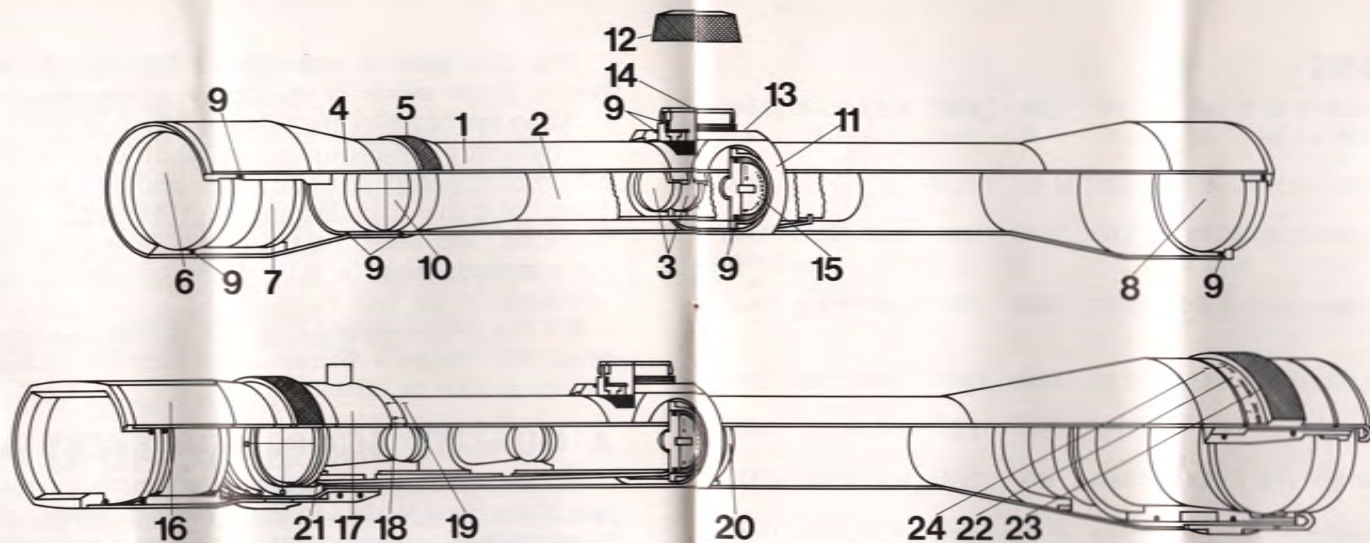
Weaver's K Models are the world's most popular telescopic sights. The K4, in fact, is the biggest-selling hunting scope on the market. These eight fixed-power models are: 1.5-power K1.5, 2.5-power K2.5, 3-power K3, 4-power K4, 6-power K6, 8-power K8, 10-power K10, and 12-power K12.

The four V Models are the most advanced Variables available. The V4.5 offers 1.5- to 4.5-power. The V7 is 2.5- to 7-power, the V9 3- to 9-power, and the V12 4- to 12-power.

For the shooter who wants a 25% wider picture, Weaver offers the Wider-View option in six K-W and V-W Models: 3-power K3-W, 4-power K4-W, 6-power K6-W, 1.5- to 4.5-power V4.5-W, 2.5- to 7-power V7-W, 3- to 9-power V9-W.

Weaver's scopes for 22's are available in both fixed and variable powers. The 4-power D4 and 6-power D6 are fixed power models. The V22 is a dependable 3- to 6-power Variable.

If you enjoy any type of shooting, Weaver has the exact scope for you.



WHAT GOES INTO A WEAVER-SCOPE

Weaver shooter-engineers insist that only the highest quality components go into every Weaver-Scope. And all of them are designed, manufactured, assembled, and tested in Weaver's own modern plant.

The (1) scope tube must be strong and rigid. Weaver's K, V, and Wider-View Models use process-formed one-piece steel tubes. 22 scopes are made with Weaver's hard-finish anodized aluminum tubes.

(2) Erector tube holds and protects the (3) erector lens system that allows scope to be adjusted for windage and elevation. (4) Eyepiece turns easily for focus adjustment, and is secured by (5) eyepiece lock ring.

(6) Ocular lens, (7) field lens, and (8) objective lens are all precision-made by Weaver craftsmen. Each is carefully mounted in a sturdy lens cell. (9) Neoprene O-rings seal the

ocular lens cell, objective lens cell, and eyepiece for complete weatherproofing. Choice of five different Weaver-designed (10) reticles is available in most models.

(11) Turret houses accurate graduated windage and elevation adjustments, with (12) turret cap and (13) Neoprene seal to keep out dirt and moisture. (14) Elevation adjusting screw and (15) windage adjusting screw permit quick, easy, precise adjustments.

New Wider-View (16) eyepiece offers 25% wider picture on K-W and V-W Models.

Weaver Variables feature an easy-to-use continuous (17) power change collar. (18) Powers are clearly marked, and line up with (19) index mark. Power changes are effected accurately by (20) collector lens and (21) negative lens.

K8, K10, K12, V9, V9-W, and V12 feature Weaver's Range Focus unit. (22) Range marks are indicated on (23) range focusing ring, and are easily lined up with (24) index mark.

SPECIFICATIONS

	K1.5	K2.5	K3	K4	K6	K8	K10	K12	K3-W	K4-W
POWER	1.5	2.5	3	4	6	8	10	12	3	4
FIELD OF VIEW (feet)	56	43	37	30	20	15	12	10	55	37.5
TUBE DIAMETER (inches)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EYEPIECE DIAMETER (inches)	1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.420	1.420
FRONT END DIAMETER (inches)	1.000	1.000	1.000	1.550	1.720	1.860†	1.860†	1.860†	1.000	1.550
EYE DISTANCE (inches)	4¼	4	4	4	3¾	3¾	3¾	3¾	3¾	3¾
LENGTH (inches)	9¾	10¾	10¾	11¾	13¾	14¾	15½	15¾	10¾	12
WEIGHT (ounces)	10¾	11½	11½	12¼	13¼	18	18¼	18½	12½	13¼
GRADUATED ADJUSTMENTS (change at 100 yards)	½"	½"	½"	¼"	¼"	¼"	¼"	¼"	½"	¼"
RETICLES* AVAILABLE	1,2,3,5	1,2,3,5	1,2,3,5	1,2,3,4,5	1,2,3,4,5	1,2,4,5	1,2,4,5	1,2,4,5	1,2,3,5	1,2,3,4,5

	K6-W	V4.5	V7	V9	V12	V4.5-W	V7-W	V9-W	V22	D4	D6
POWER	6	1.5—4.5	2.5—7	3—9	4—12	1.5—4.5	2.5—7	3—9	3—6	4	6
FIELD OF VIEW (feet)	25	54—21	40—15	33—12	24—9	70—26	53—20	41—16	30—16	29	20
TUBE DIAMETER (inches)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.875	.875	.875
EYEPIECE DIAMETER (inches)	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	.875	.875	.875
FRONT END DIAMETER (inches)	1.420	1.485	1.485	1.485	1.485	1.420	1.420	1.420	1.310	1.310	1.310
EYE DISTANCE (inches)	3¾	4¼	3¾	3¾	3¾	4	3¾	3¾	2	2	2
LENGTH (inches)	13¾	10	11¾	13	13	10¾	12½	13¾	12½	11¾	12
WEIGHT (ounces)	14¼	13¼	15¼	19¼	19½	14	16	19¾	4½	4	4
GRADUATED ADJUSTMENTS (change at 100 yards)	¼"	½"	¼"	¼"	¼"	½"	¼"	¼"	1"	1"	1"
RETICLES* AVAILABLE	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2	1 only	1 only

FOCUS Eyepiece of all scopes adjusts to user's vision.

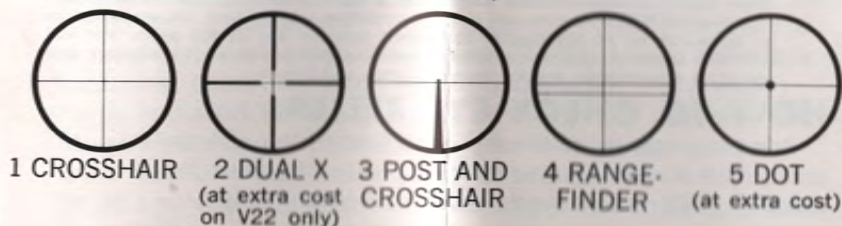
† Maximum diameter of knurled focus ring at the objective is 1.960".

* **CHOICE OF RETICLES:** As indicated by the numbers listed above, these reticles (as illustrated at right) are available:

1. **Crosshair** is standard in all Weaver models because it is excellent for almost any kind of shooting. 2. **Dual X** combines the best features of the crosshair, Range-Finder, and post and crosshair reticles; the thicker outer bars can be picked up quickly even in dim light, while the extra-fine inner crosshairs will not cover small targets even at long ranges. 3. **Post and Crosshair** reticle features a slender, tapered post with a narrow flat top and a horizontal reference wire. 4. **Range-Finder** is similar to the standard crosshair except that it has two horizontal wires. These wires are spaced to cover a distance of 6 inches at 100 yards in K and K-W Models, and in Variables when set at highest powers. To judge target range, you need to know the approximate size of the game or target.

For example, if a 6-inch target fits between the two wires, its range is 100 yards. If a 12-inch target fits, its range is 200 yards.

5. **Dot** reticle is mounted on fine crosshairs. Best used for target and varmint shooting. (Extra charge is made only for Dot reticle, and for Dual X on Model V22).



HOW TO MOUNT YOUR WEAVER-SCOPE

Most center-fire rifles are drilled and tapped at the factory to fit Weaver-Mount bases. And most dealers display a Weaver-Mount chart, making it easy to select the correct mount and base for 'most any scope and rifle combination.

Weaver-Detachable Top and Side Mounts are the world's most used scope mounts. Sturdy, dependable, and quickly detachable, the mount rings can be installed on the scope without moving the scope eyepiece, turret, or any parts. When clamped into position, mount, scope, and rifle become one solid, rigid unit.

Weaver-Pivot Mounts have all the most desirable mount features **plus** a quick pivoting action that allows the scope to be swung aside for instant use of iron sights. They offer all the accuracy, strength, and rigidity of fixed mounts.

Bases and mounts should be attached by following carefully the instructions included with them. For rifles not already drilled and tapped, see a competent gunsmith.

Weaver 22 scopes are factory-equipped with Tip-Off or N Mounts, without extra charge.

The Tip-Off Mount fits the dovetail grooves factory-cut in most 22 receivers. It can be installed in seconds without tools. The N Mount is for rifles without grooved receivers.

IMPORTANT The slightest movement of the scope or mounts will cause the gun to shoot inaccurately. Everything must be tight including base screws and scope clamping screws. All screws are hardened; turn them tight with a screwdriver having a medium large handle and a well-fitting, hardened blade. If necessary grind it to fit the screws. A good mounting job will hold the scope rigidly so there can be no slippage or movement between any of the parts, and will hold the scope in accurate alignment with the gun barrel so the windage and elevation adjustments remain centered after sighting-in.

HOW TO CHECK EYE RELIEF

Adequate eye relief is very important to the shooter's safety. All Weaver-Scopes for high-power rifles feature extra-long, extra-safe eye relief (a minimum of 3 $\frac{5}{8}$ ").

When using a scope on a gun with noticeable recoil, be

certain the scope is placed far enough forward on the gun to prevent possible contact between the scope and face (or spectacles) when the gun recoils.

Weaver 22 scopes have a shorter (2") eye relief, and for this reason should **not** be used on high-power rifles.

HOW TO FOCUS THE EYEPIECE

Start with the eyepiece backed out to the left so that objects appear blurred. Then turn in to the right until distant objects are clear and sharp. **Then stop.** The tendency is to screw the eyepiece in too far, which impairs optical qualities and causes eye strain. Lock this adjustment with the knurled locking ring.

HOW TO CHANGE POWER ON VARIABLES

To change magnification, just rotate the scope's eyepiece to the desired setting. Power change is continuous, and all magnifications are instantly available. Regardless of the setting, focus and point of impact remain the same at all powers. Long eye relief at every magnification assures safe shooting with rifles of heavy recoil.

HOW TO USE THE RANGE FOCUS

K8, K10, K12, V9, V9-W, and V12 all feature Weaver's compact, quick-change Range Focus. At critical higher magnifications, it provides maximum optical clarity and parallax-free sighting for any target range from 50 feet to 1000 yards. To set the Range Focus, rotate the housing unit to the desired distance setting. Regardless of adjustment, the scope's focus and point of impact remain unchanged. The Range Focus is sealed for weatherproof reliability. For precise shooting at specific distances, the Range Focus can be set at the exact target range. For hunting or shooting where targets may be at a variety of ranges, set the unit at 100 to 200 yards for excellent all-purpose, all-power focus.

HOW TO ADJUST ELEVATION AND WINDAGE

Elevation adjusting screw is at top of scope. Turn in direction of arrow marked "up" to raise point of impact.

Windage adjusting screw is at right side. Turn in direction of arrow marked "L" to move point of impact to left.

Elevation and windage adjustments are factory-set so line of sight is parallel to scope tube. If adjustments have been moved, they should be recentered before mounting scope on rifle.

To center scopes, turn both adjusting screws in as far as possible; then turn each screw out the number of turns indicated at right:

Model	No. of Turns
K1.5	2¼
K2.5	1¼
K3	1½
K4	2¼
K6	1½
K8	1¼
K10	1½
K12	1½
K3-W	1½
K4-W	2¼
K6-W	1½
V4.5	1½
V7	2¼
V9	1½
V12	1½
V4.5-W	1½
V7-W	2¼
V9-W	1½
V22	1½
D4	1¼
D6	1¼

The chart below shows the number of graduations required to make 1 inch of change, in elevation or windage, at ranges of 25, 50, 100, and 200 yards, for each model.

K1.5, K2.5, K3, K3-W, V4.5, V4.5-W

Graduated adjustment (½" at 100 yards)

25 yards 8 grad. 50 yards 4 grad. 100 yards 2 grad. 200 yards 1 grad.

K4, K4-W, K6, K6-W, K8, K10, K12, V7, V7-W, V9, V9-W, V12

Graduated adjustment (¼" at 100 yards)

25 yards 16 grad. 50 yards 8 grad. 100 yards 4 grad. 200 yards 2 grad.

D4, D6, V22

Graduated adjustment (1" at 100 yards)

25 yards 4 grad. 50 yards 2 grad. 100 yards 1 grad. 200 yards ½ grad.

THE BULLET'S TRAJECTORY

The bullet's flight in relation to the line of sight is pictured at right. The bullet leaves the barrel below the line of sight, crosses it at a short range, rises above it, then drops below the sight line at longer ranges. The figures in the trajectory chart show how high or low the bullet will strike at ranges of 50, 100, 150, 200, 250, 300, and 350 yards, when your rifle has first been zeroed at 25 yards.

The information in the trajectory chart is based on data for standard commercial ammunition. The figures can only be approximate, due to variation in barrel length, type of bullets, barrel bedding, and other factors. For these reasons your rifle should be checked at one of the longer ranges after zeroing at 25 yards.

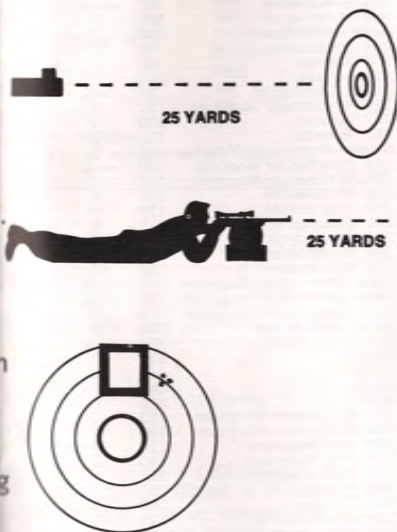


CALIBER	BULLET WEIGHT	25 YARDS		50 YARDS		100 YARDS		150 YARDS		200 YARDS		250 YARDS		300 YARDS		350 YARDS	
		0	1/2	0	1/2	0	1/2	0	1/2	0	1/2	0	1/2	0	1/2	0	1/2
22 Long Rifle Hi-Speed	40	0	1/2	-4	-16												
22 Winchester Magnum	40	0	3/4	0	1 1/2	-6 1/4											
22 Hornet	40	0	1	0	1 1/2	-6 1/4											
220 Swift	45	0	1 1/2	0	2	-9											
222 Remington	50	0	1 3/4	0	2 1/2	-10											
222 Remington Magnum	55	0	1 3/4	0	2 1/2	-10											
223 Remington	55	0	1 3/4	0	2 1/2	-10											
22-250 Remington	55	0	1 3/4	0	2 1/2	-10											
225 Winchester	55	0	1 3/4	0	2 1/2	-10											
243 Winchester	80	0	1 3/4	0	2 1/2	-10											
243 Winchester	100	0	1 3/4	0	2 1/2	-10											
6mm Remington	100	0	1 3/4	0	2 1/2	-10											
244 Remington	90	0	1 3/4	0	2 1/2	-10											
250 Savage	87	0	1 3/4	0	2 1/2	-10											
250 Savage	100	0	1 3/4	0	2 1/2	-10											
25-06 Remington	87	0	1 3/4	0	2 1/2	-10											
256 Winchester Magnum	60	0	1 3/4	0	2 1/2	-10											
257 Roberts	100	0	1 3/4	0	2 1/2	-10											
257 Roberts	117	0	1 3/4	0	2 1/2	-10											
6.5mm Remington Magnum	120	0	1 3/4	0	2 1/2	-10											
264 Winchester Magnum	100	0	1 3/4	0	2 1/2	-10											
264 Winchester Magnum	140	0	1 3/4	0	2 1/2	-10											
270 Winchester	130	0	1 3/4	0	2 1/2	-10											
270 Winchester	150	0	1 3/4	0	2 1/2	-10											
280 Remington	125	0	1 3/4	0	2 1/2	-10											
280 Remington	150	0	1 3/4	0	2 1/2	-10											
284 Winchester	125	0	1 3/4	0	2 1/2	-10											
284 Winchester	150	0	1 3/4	0	2 1/2	-10											
7mm Remington Magnum	125	0	1 3/4	0	2 1/2	-10											
7mm Remington Magnum	150	0	1 3/4	0	2 1/2	-10											
7mm Remington Magnum	175	0	1 3/4	0	2 1/2	-10											
30-30 Winchester	150	0	1 3/4	0	2 1/2	-10											
30-30 Winchester	170	0	1 3/4	0	2 1/2	-10											
30-30 Winchester	110	0	1 3/4	0	2 1/2	-10											
30-06	150	0	1 3/4	0	2 1/2	-10											
30-06	180	0	1 3/4	0	2 1/2	-10											
30-06	220	0	1 3/4	0	2 1/2	-10											
300 Winchester Magnum	150	0	1 3/4	0	2 1/2	-10											
300 Winchester Magnum	180	0	1 3/4	0	2 1/2	-10											
300 H&H Magnum	150	0	1 3/4	0	2 1/2	-10											
300 H&H Magnum	180	0	1 3/4	0	2 1/2	-10											
300 H&H Magnum	220	0	1 3/4	0	2 1/2	-10											
300 Savage	150	0	1 3/4	0	2 1/2	-10											
300 Savage	180	0	1 3/4	0	2 1/2	-10											
308 Winchester	125	0	1 3/4	0	2 1/2	-10											
308 Winchester	150	0	1 3/4	0	2 1/2	-10											
308 Winchester	180	0	1 3/4	0	2 1/2	-10											
308 Winchester	200	0	1 3/4	0	2 1/2	-10											
338 Winchester Magnum	250	0	1 3/4	0	2 1/2	-10											
338 Winchester Magnum	250	0	1 3/4	0	2 1/2	-10											
35 Remington	150	0	1 3/4	0	2 1/2	-10											
350 Remington Magnum	200	0	1 3/4	0	2 1/2	-10											
350 Remington Magnum	250	0	1 3/4	0	2 1/2	-10											
358 Winchester	250	0	1 3/4	0	2 1/2	-10											
375 H&H Magnum	270	0	1 3/4	0	2 1/2	-10											
44 Remington Magnum	240	0	1 3/4	0	2 1/2	-10											
444 Marlin	240	0	1 3/4	0	2 1/2	-10											
458 Winchester Magnum	510	0	1 3/4	0	2 1/2	-10											

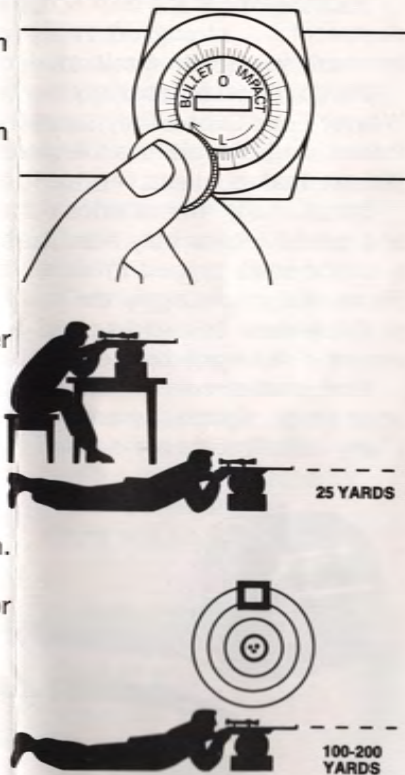
HOW TO SIGHT-IN

To obtain maximum accuracy from rifle, scope, and ammunition, careful sighting-in is essential. It is not difficult, and the steps shown in the six illustrations describe a simple way to zero any rifle accurately, with a minimum of time and ammunition.

1. Place the target 25 yards from the firing point.
2. Shoot from a rest, such as a bench rest or prone position, resting the fore-end of the rifle (never the barrel) on a padded surface. Fire three shots for group at 25 yards, holding the rifle steady and squeezing the trigger.
3. The target in the illustration shows the center of the 3-shot group to be 3 inches high and 3 inches to the right. This requires lowering the elevation adjustment 3 inches and moving the windage adjustment 3 inches to the left.



4. Remove the turret caps and make a 3-inch down adjustment with the elevation screw, and a 3-inch adjustment to the left with the windage screw. The table on page 10 shows how many graduations are needed to make 1 inch of change in windage and elevation at the 25-yard range.
5. Fire another 3-shot group at 25 yards and the center of the group should be on the point of aim as shown on the target insert. If not, then make the necessary windage and elevation adjustments to bring group to point of aim.
6. Then fire a group at a longer range—100, 150, or 200 yards. The trajectory chart on page 11 shows where the bullets should be striking at these ranges, after zeroing at 25 yards.



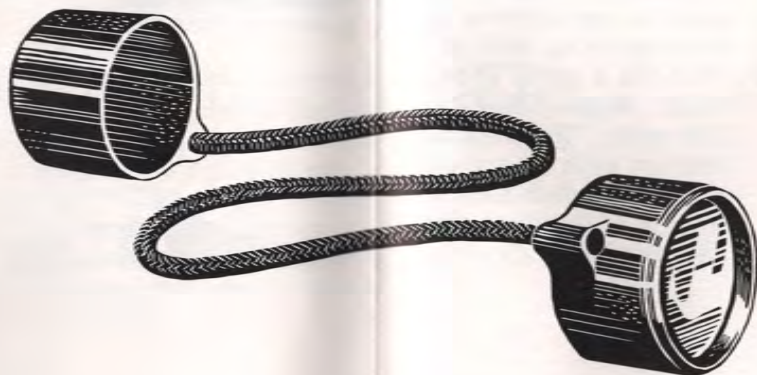
HOW TO CARE FOR YOUR WEAVER-SCOPE

Your Weaver is the best scope built. Shockproof, waterproof, dustproof . . . strong. With just reasonable care, it will last for many years with a minimum of attention.

We do, however, strongly suggest that you invest \$2.95 in Weaver Lens Caps. They snap on right over both exposed lenses, and provide positive year-in, year-out protection. Weaver makes a lens cap to fit every scope Weaver builds.

Occasionally, the exterior surfaces of both the objective and ocular lenses may need to be cleaned. To do so, just use a cotton swab dipped in either alcohol or plain water. Be careful not to apply too much direct pressure to the lenses. To avoid scratching the lenses, blow off any excess dirt or grit before swabbing.

Under no circumstances should you attempt to disassemble your scope. Eyepieces are never to be removed. If any adjustments are needed, take advantage of your guarantee.



WHAT TO DO IF YOUR SCOPE IS NOT OPERATING CORRECTLY

If your scope is malfunctioning, don't try to fix it yourself. And don't let anybody else try, either. Do this: Dismount the scope and pack it in its Weaver-Scope box or other protective carton. Now, write us a short letter describing what you think might be wrong, and place it inside the box along with the scope. Wrap securely for mailing. Address this package to: W. R. Weaver Company, 7125 Industrial Avenue, El Paso, Texas 79915. (In Canada, send scopes to: Western Scope Ltd., 224 11th Ave., SW, Calgary, Alberta, Canada; or to Weaver Service Center, Winchester Canada, Brook Road North, P.O. Box 2007, Cobourg, Ontario, Canada). Also, write on the outside of the package "letter enclosed", and place an extra 8¢ stamp on it to cover postage for the letter. We also suggest that you insure your scope.

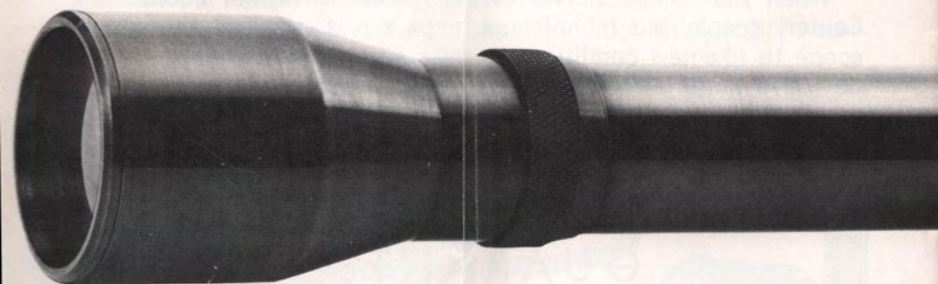
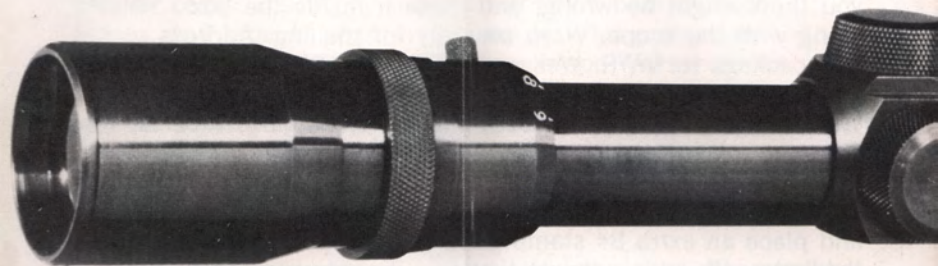
When your scope arrives at the Weaver Customer Service Center, specialized technicians inspect and repair the scope to like-new condition. If the malfunction is caused by defective material or workmanship, your scope will be repaired without charge. However, there will be a charge if your scope has been damaged.


GUARANTEE

Weaver will repair or replace your scope without charge if it fails to perform due to any defects in materials or workmanship.

If this happens, just return it to us.

WEAVER  **SCOPES**



 **olin**