

Lifetime Warranty

This AXCEL® Sight is guaranteed to the original owner with a valid sales receipt against defects in materials and workmanship not caused by normal wear for the lifetime of the product. T.R.U., Inc., the manufacturer of AXCEL® Sights, reserves the right to repair or replace defective parts at its earliest convenience if the sight has been used according to the enclosed instructions. T.R.U., Inc. alone will judge whether a defect has been caused by normal wear and which parts will be repaired or replaced. Defects caused by normal wear may be repaired for an additional charge.

LIMITATIONS TO GUARANTEE

Parts that are modified, abused, or not used according to the instructions are not covered by this guarantee. T.R.U., Inc. shall not be liable for injuries or property damage of any kind. This guarantee is only valid to the original owner and is void if the original owner does not have the sales receipt. IT IS CRITICAL THAT YOU KEEP YOUR SALES RECEIPT IN A SAFE PLACE, AS REPAIRS WILL NOT BE PERFORMED WITHOUT THE ORIGINAL SALES RECEIPT! All packages sent to T.R.U., Inc. must have a return authorization (RA) number.

If you believe that a return to our factory is needed, call 434-929-2800 for a return authorization (RA) number, then UPS ship INSURED to T.R.U., Inc., 131 Crennel Drive, Madison Heights, VA 24572.

T.R.U., Inc. is not liable for products that are lost in shipping, so it is very important to INSURE all shipments and make sure that your package has a tracking number. All returns must have a return authorization number, a short explanation of the problem, and be accompanied by a copy of the original sales receipt. The RA# must be written on the outside of the package or the package will not be accepted.

ITEMS IN THIS MANUAL MAY BE PATENT PENDING OR COVERED BY US PATENTS & REGISTERED TRADEMARKS.

WWW.AXCELSIGHTS.COM/LEGAL.HTML FOR A FULL LIST OF PATENTS & TRADEMARKS.

Tomorrow's Resources Unlimited, Inc.

AXCEL® ARCHERY
131 Crennel Dr. , PO Box 1180
Madison Heights, VA 24572

434-929-2800 WWW.AXCELARCHERY.COM

TECHNICAL MANUAL

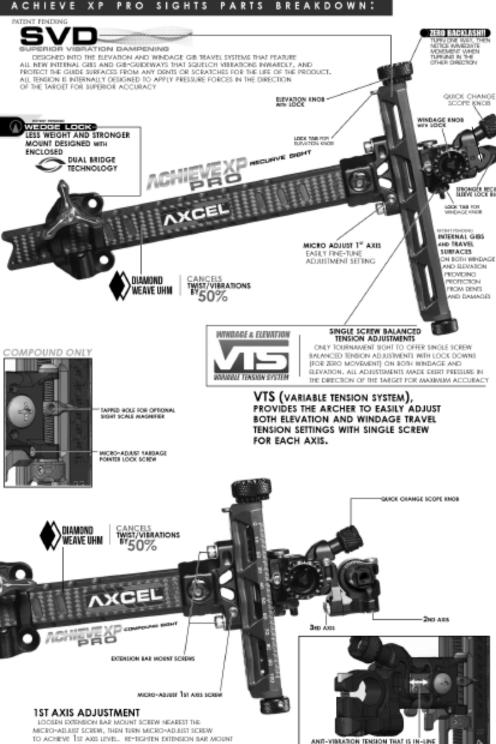
ACHIEVEXP PRO

COMPOUND AND RECURVE



WARNING: This product can expose you to chemicals including Nickel Acetate, which is known to the State of California to cause cancer or birth detects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

ACHIEVE XP PRO SIGHTS PARTS BREAKDOWN:



WITH TARGET FOR GREATER ACCURACY

SCREW AND CHECK THAT BOTH SCREWS ARE TIGHT,

ACHIEVE XP PRO Accessories:



COMPOUND ACCESSORIES

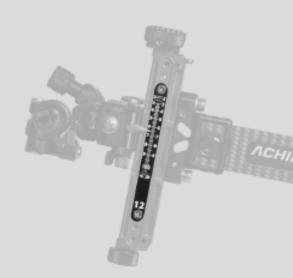
METAL SIGHT TAPES

INCLUDED WITH SIGHT:

SIGHT TAPE #	
5-6	21-22
9-10	25-26
13-14	29-30
17-18	33-34

AVAILABLE SEPARATELY:

SIGHT TAPE #	
1-2	23-24
3-4	27-28
7-8	31-3
11-12	35-3
15-16	37-38
19-20	39-40



LENS SPACER AVX3-LS

31MM INSIDE SCOPE DIA

AVX31 - AVX3-__-BK

IC = "1" CONNECTOR & STAINLESS #10-32 ROD SC = STAINLESS #10-32 ROD

INCLUDED WITH AVX MODELS: LENS SPACER LEVEL BLANK EXTERNAL SPACER LENS RETAINER BING FIN RETAINER

AVX41 - AVX4-__-BK

TC = "I" CONNECTOR & STAINLESS #10-32 ROD SC = STAINLESS #10-32 ROD

INCLUDED WITH AVX MODGES: EXTERNAL SPACER LENS BETAINER LEVEL BLANK KING FIN RETAINER

SCOPE & LENS COMBOS AVX3-TC-_10 AVX-31 SCOPE with DOCS CHOICE 1-3/8" pilk. LENS COMBO - "T" CONNECTION & SST #10-32 AVX4-TC: 10 AVX-41 SCOPE was DOCS CHOICE 1-3/41 by. LENS COMBO - "T" CONNECTION & SST #10-32 LEVEL BLANK: 8/32" THREADED HOLE - DIRECTED TO THE EXACT CENTER OF A LENS DOT FOR UED LIGHT LENS SPACER THREADED FOR 3/8" x 32 SIGHT LIGHT NTI-GLARE SURFACE TEXTURE MACHINED INTO INSIDE OF SCORE HOUSING TO REDUCE GUARF. LENS RETAINER EXTERNAL SPACER LARGER IN-LINE LEVEL VIAL RING PIN RETAINER

EXTERNAL SPACER AVX-31 AND AVX-41 BREAKDOWN RHEOSTAT COVER LEVEL BLANK AVX3-LB-BK AVX3-RHEO-BK STEPPED SHADE AVX3-STSH-BK

TORQUE INDICATOR * TORQUE INDICATOR SCOPE MOUSIN RHEOSTAT COVER COMBO OF AVX3-LR LONG SHADE AVX3-LGSH-BK

LENS RETAINER

RING PIN RETAINER

LENS AVX31-CTDC-_X SPECIFY POWER: 2x, 4x, 5x, 6x, or 8x

AVX3-RPR-BK INTERCHANGEABLE RING PIN

RING PINS

AVX3-RHTQ-RK

AYX3-RP10 AYX-31 SCOPE RBER OPTIC RING PIN - .010" SIGHT PIN (secon) PIN count. AVX3-RP19 AVX-31 SCOPE RISER OF TORING PIN - .019" SIGHT FIN (prior) Pix count

AVX4-8P10 AVX-41 SCOPE RISER OF TIC RING PIN - .010" SIGHT FIN brigger PR count AVX4-RP19 AVX-41 SCOPE RBER OPTIC RING PIN - .019" SIGHT PIN SPECIFIEN COLORS

RING PINS WITH RHEOSTAT COVER

AC14-FRP

AVX3-RPRH10 AVX-31 SCOPE FIBER OFFIC RING FIN & RHEDSTAT COVER - JUIO* SIGHT FIN (pricer FIN coups) AVX3-RPRH19 AVX-31 SCOPE FIBER OFFIC RING PIN & RHEOSTAT COVER - .019" SIGHT PIN (SMORT PIN COLOR) AVX4-RPRH10 AVX-41 SCOPE FBER OFFIC RING PIN & RHEDSTAT COVER - .010" SIGHT PIN (SHORY PIN COLOR)

AVX.4.3 SCOPE FIBER OFFIC RING FIN & RHEOSTAT COVER - 0.19" SIGHT FIN (INCOVER - 0.00)



AC14-RX SCOPE ONLY WITH #8-32 ROD (NO FIBERS OR LENS)

AC14-RX19 WITH CT X-ZONE .019" DRILLED OX LENS

AC14-RX29 WITH CT X-ZONE .029" DRILLED OX LENS

AC14-RXP19-_ WITH .019" FIRE RING PIN - RHEOSTA

- CT X-ZONE .019" DRILLED OX LENS _ WITH .029" FIRE RING PIN - RHEOSTAT - CT X-ZONE .029" DRILLED OX LENS

AC14-RXP10- WITH .010" FIRE RING PIN - RHEOSTAT FIBER COLOR - CT X-ZONE .019" DRILLED OX LENS

PRO MODEL AC14-RXP19-GRBK

T-CONNECTION

AVX-TCS

INCLUDED ONLY IN PRO MODEL OR SOLD SEPARATELY -LONGER WRAP OF FIRERS IN THE FRE DESIGN SIGNIFICANTLY INCREASES BRIGHTNESS IN ALL FIBER SIZES

-FIBER AVAILABLE IN .010", .019", & .029" DIA., IN GREEN OR RED -EASILY ADJUSTABLE FROM RH TO LH



CURVERXE AC14-RXF19-RH-GB

ALSO AVAILABLE: CURVE CX COMPOUND

#10-32" \$5T #OD AX-SCR

-3 DIFFERENT SIZE APERTURES

STANDARD MODEL
AC14-RX

OF BING.

SPACER SLEEVE

BLACK ONLY



SER SIZE

SELECT SCIONE PAR OPTIONS

X-ZONE AC14-CTXZ19-OXFD AC14-CTXZ19-OX

AC14-CTXZ29-OXFD

AC14-CTXZ29-OX

WARNING:

DO NOT USE A LENS WITH MAGNIFICATION IN A RECURVE SCOPE!

BURNACIMANT ARRESTS DISC OF Decrees AC14-RXAD1

EHEOSTAT

COVER

AVX3-EXSP-BK

AC14-RXAD2

AC14-RXAD3

AC14-RXAD4

AC14-I R AC14-RXRHEO

CHRYE SPACER AC14-SPCR-RK

WARNING:

FIRE RING PIN MAY NOT BE USED AT THE SAME TIME AS A DRILLED LENS OR DOT DECAL LENS, THIS WILL RESULT IN A VIOLATION OF FITA RULE 11.1.5.1 BY PROVIDING TWO AIMING POINTS

AC14-RXF19-RH-_B .019" FIBER SIZE - RIGHT HAND

AC14-RXF19-LH-_B .019" FIBER SIZE - LEFT HAND

AC14-RXF29-RH-_B .029" FIBER SIZE - RIGHT HAND

AC14-RXF29-LH-_B .029" FIBER SIZE - LEFT HAND SPECIFY FIBER COLOR GREEN - \underline{G} OR RED - \underline{R}

MANIA SCOPE LD. DESIGNED SHORT TO REDUCE INSIDE SCOPE WALL VISIBILITY THAT OCCURS WHEN MOVING THE SCOPE 5 METERS TO 40 METERS IN FIELD ARCHERY



BLACK ONLY









ACC8-RX19-RH- B .019" FIBER SIZE - RIGHT HAND ACC8-RX19-LH- B .019" FIBER SIZE - LEFT HAND ACC8-RX29-RH-_B .029" FIBER SIZE - RIGHT HAND ACC8-RX29-LH-_B .029" FIBER SIZE - LEFT HAND SPECIFY FIBER COLOR GREEN - \underline{G} , RED - \underline{R} , OR YELLOW - \underline{Y}



SQUARE RECURVE SCOPE ALIGNS WITH SQUARE TARGET FACE FOR BETTER VERTICAL BOW ALIGNMENT, SHOT-AFTER-SHOT. THE .019" OR .029" DIAMETER FIBERS IN GREEN, RED, OR YELLOW ARE WRAPPED AROUND THE SCOPE FOR A BRIGHTER PIN.

- SQUARE EDGES LINE UP WITH THE TARGET EDGES
- FIBER WRAPS AROUND THE SCOPE TO PROVIDE A BRIGHTER PIN THAN OTHER SQUARE SCOPES
- .019" OR .029" FIBER SIZE
- 8mm inside scope diameter



COMPETITION

MOUNTING SIGHT



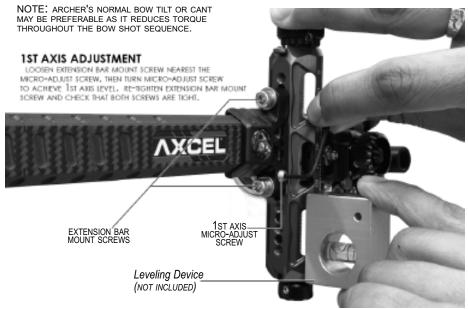
Mount sight bracket to bow with screws provided (1a.). Tighten mounting screws securely, then slide the sight extension into the bow mounting bracket and choose your desired sight length setting.

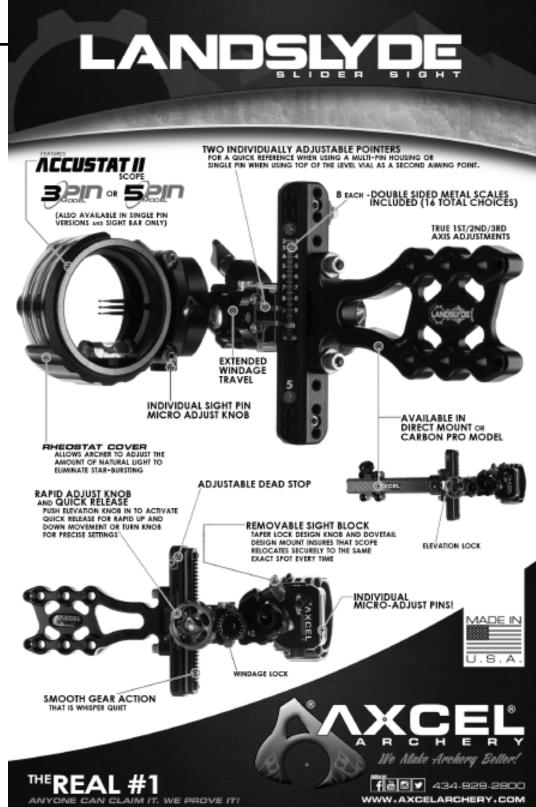
NOTE THE LOCATION OF THIS SETTING SO THAT YOU CAN REMOVE THE SIGHT AND RE-ATTACH IT TO THE SAME SETTING EVERY TIME THAT YOU SHOOT FOR REPEATABLE ACCURACY.



SETTING 1ST AXIS

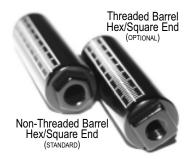
Level the elevation bar (frame) with bow string (or) level at full draw with natural bow tilt or cant based on the archer's preference.





ALIGNING SCOPE TO EYE

Align the scope square with your eye to ensure scope lens clarity.



NON-THREADED BARREL

Always insure square or hex alignment aids on end of barrel mate with scope to eliminate scope rotation, when securing scope to barrel. Rotate your scope by spinning barrel in C-clamp to align scope to be square with your eye and tighten C-clamp securely. To make minute rotation adjustments, loosen the C-Clamp locking screw and rotate the barrel

using alignment marks for visual movement. When your scope is square with your eye, tighten the C-Clamp Lockscrew securely. Always ensure that the C-Clamp Lockscrew and the scope rod and nut are securely tightened.

THREADED BARREL

Always insure square or hex alignment aids on end of barrel mate with scope to eliminate scope rotation. Tighten scope to barrel and ensure that it is tightened securely. Align scope to eye by rotating the scope barrel in the C-Clamp. For fine rotation adjustments, use alignment marks. After you are sure that the scope is aligned with your eye, tighten the C-Clamp Lockscrew securely. Always ensure that the C-Clamp Lockscrew and the scope attachment bolt are securely tightened.

(STANDARD)

Non-Threaded Barrel-Hex/Square end fits Classic, Extreme, Sure-Loc, Bullseye, Specialty, Viper, Beiter, CR Apex, G&B Specialties, True-Spot, Cartel and Impact Scopes

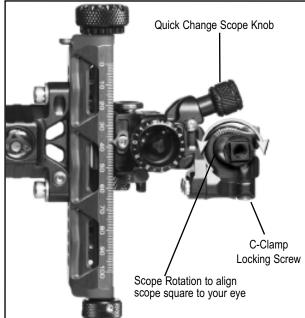
(OPTIONAL)

• Threaded Barrel-Hex/Square end fits many scopes

The above Scope Brands may be covered by Trademarks & are the property of their respective owners.

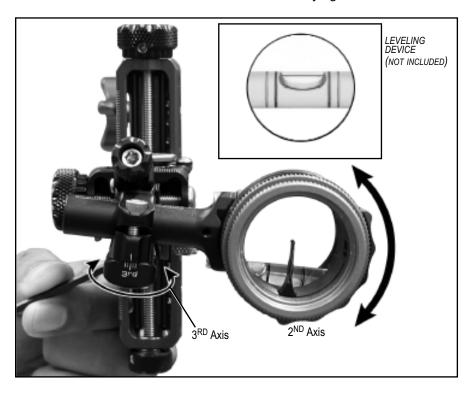


Rotate Scope by spinning barrel in c-clamp to align scope square to your eye.



SETTING THE 2ND AXIS

Make 2nd Axis adjustments by attaching a level device to the side of the elevation bar (frame) and adjusting the 2nd Axis with one screw snug-tight to bring the scope level. Then tighten the loose screw first and make sure that both the leveling device and the scope level are level at the same time. Insure that both 2nd Axis screws are securely tightened.



SETTING THE 3RD AXIS

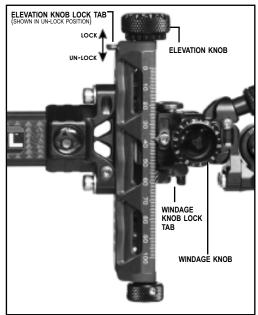
With level device still attached to the side of the elevation bar (frame), bring bow to full draw and point your bow down at a 45 degree angle. Adjust the 3rd Axis to insure that the scope level and elevation bar (frame) level are level at the same time.

Insure that both 3rd Axis screws are securely tightened.

(NOTE: NEVER DRY-FIRE BOW AS INJURY MAY RESULT.)

ELEVATION KNOB

Elevation knob is engraved with 20 divisions numbering 1-10 with dot indicators between numbers. There are 20 clicks on the elevation knob for one full revolution or turn on a 32 pitch lead screw. There are engraved yardage marks on the side of the elevation bar (frame). One engraved mark equals 1 turn (or 20 clicks from "0" to "0"). When turning the elevation knob one full turn, the sight will move in elevation the distance of one engraved yardage mark. This allows for the finest movement per click (.00156) in the tournament sight market place. To lock, lift Elevation Knob Lock Tab. Push down to unlock.



Note: When using software to make your own sight tape, always use (32 pitch x 20 clicks)

WINDAGE KNOB

Windage knob is engraved with 20 divisions numbering 1-10 with dot indicators between numbers. There are 20 clicks on the windage knob for one full revolution or turn on a 32 pitch lead screw. There are engraved marks on the side of the windage block. One engraved mark equals 1 turn (20 clicks from "0" to "0"). When turning the windage knob one full turn, the sight will move in windage the distance of one engraved mark. This allows for the finest movement per click

(.00156) in the tournament sight market place. To lock, lift Windage Knob Lock Tab. Push down to unlock.

Note: One click of windage adjustment equals approximately 1/32 inch of target point of impact at 20 yards. 8-clicks of windage adjustment will change the point of impact approximately 1/4 inch at 20 yards.

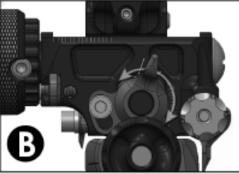
Maintenance

Your AXCEL® Sight has been designed to operate in any weather condition. All parts are aluminum or stainless steel and are free from rust. Simply blow away debris to keep sight clean. Threads and way gibs should be kept clean of debris. Do not lube sight threads or ways as this will attract dirt and debris. Lube only the underside (click-side) of the elevation and windage knobs as needed. Use only a synthetic, non-water soluble grease such as SuperLube®.

ELEVATION VARIABLE TENSION ADJUSTMENT

- 1. LOOSEN RED LEVER LOCK SCREW
- 2. PULL DOWNWARD IN A CLOCKWISE DIRECTION.
- 3. SLOWLY MOVE UPWARD IN COUNTER-CLOCKWISE DIRECTION UNTIL YOU CAN FEEL PRESSURE LIKE IT HIT BOTTOM.
- REPEAT FINDING THE EXACT LOCATION WHERE THERE IS FELT PRESSURE.
- MOVE UPWARD IN COUNTER-CLOCKWISE DIRECTION ONE LINE TO INSURE GIBS ARE CORRECTLY BALANCED FOR TENSION WITH NO BACKLASH.
- IF YOU PREFER STRONGER, TIGHTER TENSION THEN MOVE UPWARD IN COUNTER-CLOCKWISE INFECTION ONE HALF LINE AT A TIME UNTIL YOUR DESIRED STRONGER TENSION IS ACMEYED.

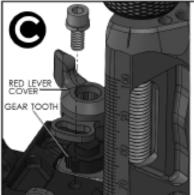
NOTE: THE STRONGER THE TENSION THE HARDER IT IS TO SLIDE UP AND DOWN RAIL, BUT NO. 5 INSTRUCTION OF ONE LINE OF BALANCED TENSION MUST HAPPEN TO CORRECTLY TENSION GIBS.



 IF RED LEVER HAS REACHED THE END OF ITS TRAVEL IN THE STRONGER TENSION (COUNTER-CLOCKWISE) DIRECTION AND STILL LOOSE FEELING WITH NO FELT PRESSURE CHANGE ON THE RED LEVER, THEN REMOVE THE RED COVER AND FOLLOW INSTRUCTION @ BELOW TO RE-INDEX RED COVER TO A NEW POSITION.



SCAN FOR TENSION SETTING INSTRUCTIONS



- IF RED LEVER IS LOOSE FEELING WITH NO FELT PRESSURE CHANGE ON THE RED LEVER, THEN LIFT OFF THE RED COVER AND ROTATE CLOCKWISE DIRECTION AND INSTALL ONTO A NEW TOOTH.
- THE RED LEVER SHOULD NOW BE CLOCKWISE CLOSER TO THE MICRO-ADJUST YARDAGE POINTER KNOB.
- SLOWLY MOVE RED LEVER UPWARD IN COUNTER-CLOCKWISE DIRECTION UNTIL YOU CAN FEEL PRESSURE LIKE IT HIT BOTTOM.
- REPEAT FINDING THE EXACT LOCATION WHERE THERE IS FELT PRESSURE.
- MOVE UPWARD IN COUNTER-CLOCKWISE DIRECTION ONE LINE TO INSURE GIBS ARE CORRECTLY BALANCED FOR TENSION WITH NO BACKLASH.
- IF YOU PREFER STRONGER, TIGHTER TENSION THEN MOVE UPWARD IN COUNTER-CLOCKWISE DIRECTION ONE HALF LINE AT A TIME UNTIL YOUR DESIRED STRONGER TENSION IS ACHIEVED.

NOTE: THE STRONGER THE TENSION THE HARDER IT IS TO SLIDE UP AND DOWN RAIL, BUT NO. 5 INSTRUCTION OF ONE UNE OF BALANCED TENSION MUST HAPPEN TO CORRECTLY TENSION GIBS.

WINDAGE VARIABLE TENSION ADJUSTMENT

LOOSEN WINDAGE LOCK SCREW.

 TURN WINDAGE ADJUSTMENT SCREW COUNTER-CLOCKWISE UNTIL LOOSE.

- SLOWLY TURN WINDAGE ADJUSTMENT SCREW CLOCKWISE UNTIL YOU CAN FEEL PRESSURE LIKE IT HIT THE BOTTOM.
- REPEAT FINDING THE EXACT LOCATION WHERE THERE IS FELT PRESSURE, NOTE WHERE THE LINE ON THE SCREW IS.
- TURN SCREW CLOCKWISE TWO LINES TO ACHIEVE CORRECTLY BALANCED TENSION WITH ZERO BACKLASH.

NOTE: TURNING THE ADJUSTMENT PAST TWO LINES WILL BE TOO MUCH PRESSURE RESULTING IN BACKLASH.

