

- A ball coupling joins the pointer to the yoke. The thumb screw on top of the ball is used to make small adjustments in the overall rod length. Where a shorter length is desired, measure and cut off the excess so the rod barely exits the ball coupling.
- The angle of the pointer in relation to the yoke can be adjusted by a set screw in the bottom of the ball coupling. An Allen wrench is provided for this purpose. *DON'T LOSE IT!*

**REMOVING THE FITTED HEADBAND**

Once the above fitting procedure is completed, it may not be necessary to loosen or move any of the adjustments to remove the headband. Rather, unfasten either one of the snap plates which will release the chin cup and strap. If the headband slides off the head easily, don't readjust the back knob. The snap alone may allow you to take the unit off without affecting the fitting — *a real time saver!*

**OPTIONAL WEARING TECHNIQUES**

1. For persons having headrests which may interfere with the back headband adjustment knob, the band may be worn backwards (knob in front). In this instance, remove the yoke and reinsert it facing the opposite direction (toward the knob), and proceed with fitting as outlined above.
2. For those situations where a forehead pointer is desired, remove the yoke and reinsert it upside down. Rotate the pointer downward accordingly and proceed with fitting as outlined above. Excess material may be cut off the yoke as required.



**AD-2 "TINY TOT" POINTER**

This unit has all the characteristics of the AD-1 above, but is specially sized for small heads from 17-20 inches in circumference. The headband has a rear strap adjustment and the yolk assembly is sized for these smaller heads.

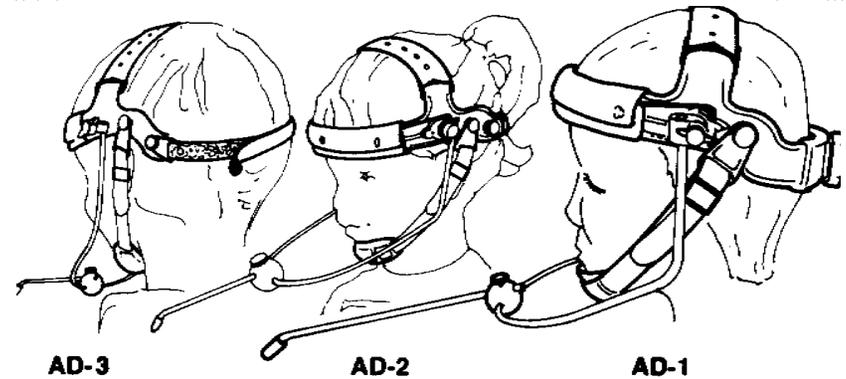
**AD-3 STANDARD POINTER (WITH REAR STRAP CLOSURE)**

This model is a "gap filler" between the AD-1 and AD-2. The yoke assembly is standard size, but the rear knob adjustment portion of the AD-1 head band has been replaced with a hook and loop strap closure. This is particularly helpful when the wearer is seated against any headrest mechanism where the AD-1 knob would continuously abraid the rest and cause discomfort. Also, it accommodates adult wearers with slightly smaller than average head sizes, for whom the overall yoke size reduction of the AD-2 is inappropriate.

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manuals/mntsc/ad-1\_01.pmd

Printed in U.S.A.



**FEATURES**

- Unobstructed field of vision
- Lightweight
- Fully and independently adjustable headband and Yoke/Pointer assembly
- Comfortable forehead and back cushions
- Adjustable chin strap
- Translucent, conforming, soft plastic chin cup
- All materials are washable with mild cleaning agents
- All working parts are readily replaceable

**SPECIFICATIONS**

Weight:	8 Ounces
Yoke/Pointer Material:	1/4" diameter aluminum rod
Overall Yoke/Pointer Length:	approximately 18" from temple
Pointer Rod Length:	10" standard with vinyl-capped tip
Headband Adjustment Range:	20-25 inches
Headband Cushion Materials:	foam backed vinyl @ forehead, closed cell thermoplastic foam @ back
Chin Cup Material:	polyethylene
Chin Strap Material:	Polypropylene webbing with nylon buckles
Chin Strap Color:	black

\*Developed and field tested by the Rehabilitation Engineering Center, Children's Hospital at Stanford, Palo Alto, CA.

## DISCUSSION

The ZYGO **AD-1 Head Pointer** represents a significant design advancement and a human engineering achievement in providing efficient pointing from a psychologically and cosmetically sound perspective—the **chin**.

Using an “out from the chin” pointer more realistically places the pointer in proximity to the device being accessed. This feature also eliminates the unsightly barrier imposed by forehead pointers by not interrupting the field of vision of the wearer and leaving an unobstructed full view of the wearer’s face.

The **AD-1 Head Pointer** is fully adjustable; capable of being individually fitted to most head sizes and positions.

**SUGGESTION:** Successful device access requires proper positioning and support of language boards, electronic aids, typewriters, reading materials, et al., in an appropriately angled vertical plane. In this way, only left to right and up and down motion is required, with minimum forward thrust needed for actual selection. This strategy significantly reduces the overall range of motion required to access the device periphery, and all but eliminates the ‘seal like’ forward extension often seen by wearers trying to use devices that are horizontal on a flat surface perpendicular to the body.

**CAUTION:** Head pointers are most appropriate for persons having well controlled, directed movement in both horizontal and vertical directions. The wearing of any head apparatus where severe or uncontrolled movement exists (i.e., thrusting, extension, palsy) will cause discomfort as the wearer’s motion fights the adjustment settings. Also, while the adjustments inherent in the AD-1 are secure, they are not rigid. Therefore, in the event severe impact against the Pointer occurs, the settings will ‘give’ to preclude harm to the wearer.

## FITTING THE AD-1 HEAD POINTER

### HEADBAND

- Adjust the headband by rotating the large knob at the back of the band.
- Open the band to a size larger than the wearer’s head by rotating the knob counterclockwise and then work down to an appropriate fit.

**CAUTION:** *You can’t feel the band tightening...so please don’t overdo it.*

- Accommodate smaller heads (i.e. tiny tot) by adding foam in the back of the band.

### CROWN

- The crown strap across the top of the head is adjusted with a plastic snap inserted into the appropriate hole.
- Accommodate smaller heads by punching additional 5/32" holes in the strap.

### CHIN CUP & STRAP

- If necessary, move the yoke out of the way or remove it entirely (*see YOKE section below*).
- Leaving the snap plates attached to the headband, adjust the strap at both ends.
- While holding the cup against the chin, adjust one of the ends of the chinstrap until snug. Repeat for the other side.

**CAUTION:** *You may want to specifically advise the wearer in advance that the strap adjustment may be momentarily very noisy because of its closeness to the ears.*

### YOKE

- The yoke pivots into position using wing screws-located at the sides of the headband. Tighten these screws when the yoke position is determined. Loosen the wing screws to;
  - a) reposition the yoke
  - b) move the yoke up over the head temporarily, i.e., during feeding or nonuse time or
  - c) remove the yoke entirely. This is sometimes recommended where headband tolerance is being trained; the yoke being presented periodically, while the band remains on.
- The yoke can be spread or squeezed in slightly in proportion to the headband settings described above.

### POINTER ROD