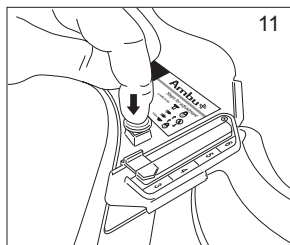
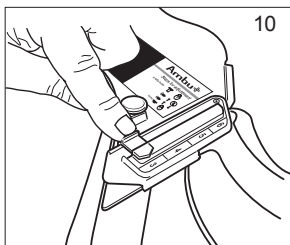
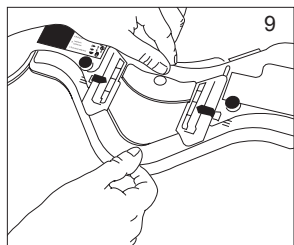
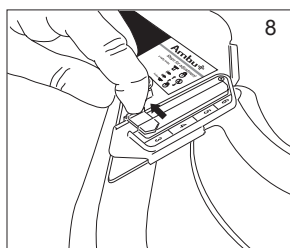
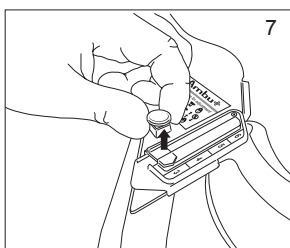
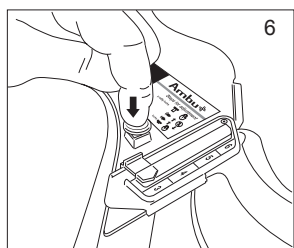
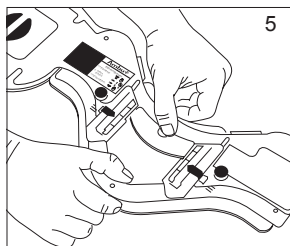
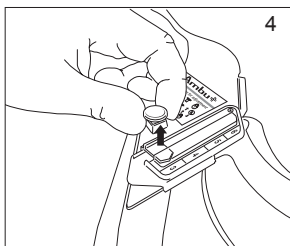
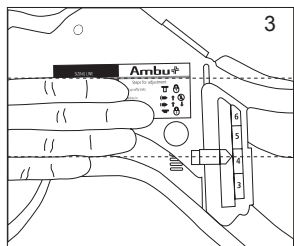
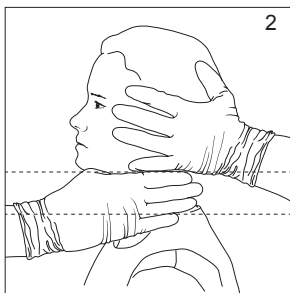
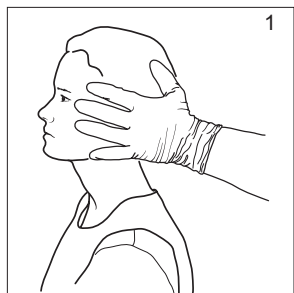
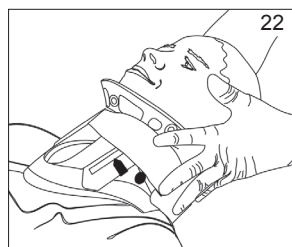
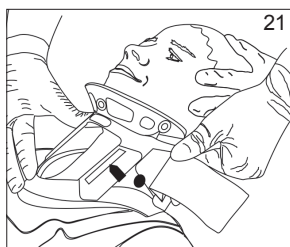
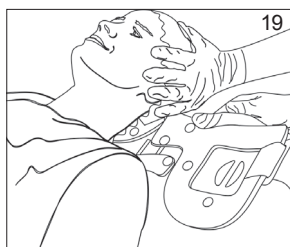
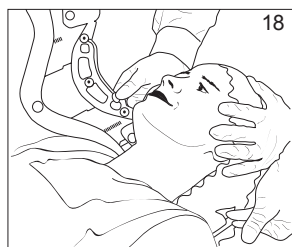
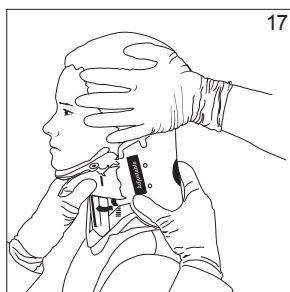
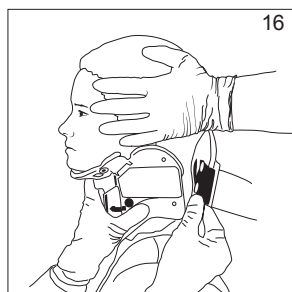
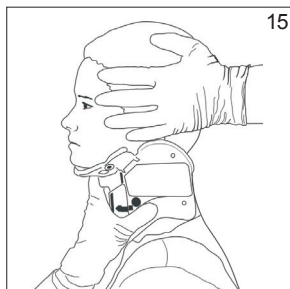
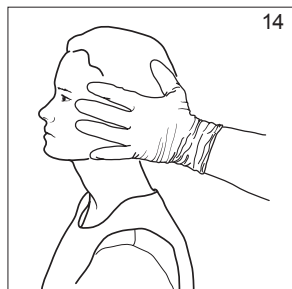
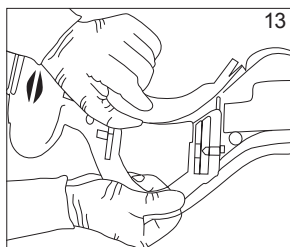
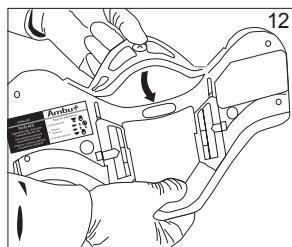


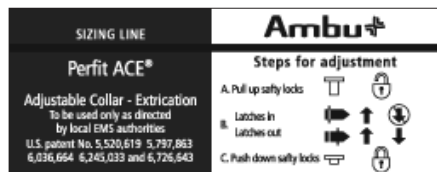
## Instructions for use

### Ambu<sup>®</sup> Perfit ACE<sup>™</sup>

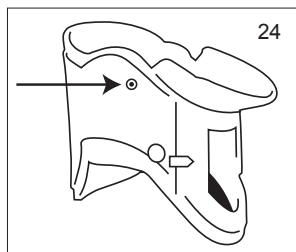








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## This product is not made with natural rubber latex

EN This product is not made with natural rubber latex

BG Този продукт не е произведен с естествен каучуков латекс

CS Tento výrobek není vyroben z přírodního latexu

DA Dette produkt er ikke fremstillet med naturgummilatex

DE Dieses Produkt enthält kein natürliches Gummilatex

EL Αυτό το προϊόν δεν έχει κατασκευαστεί με φυσικό ελαστικό λάτεξ

ES Este producto no está fabricado con látex

ET Toode on valmistatud ilma loodusliku kummilateksita

FI Tämä tuote ei sisällä luonnonkumilateksia

FR Ce produit n'a pas été fabriqué avec du latex de caoutchouc naturel

HR Ovaj proizvod nije napravljen s lateksom od prirodne gume

HU Ez a termék nem természetes latexgumiból készült

IT Il prodotto non è realizzato con lattice di gomma naturale

JA 本製品に天然ゴムラテックスは使用されていない

LT Gaminio sudėtyje nėra natūralaus latekso.

LV Šis izstrādājums nav veidots no dabīgās gumijas lateksa

NL Dit product is niet vervaardigd met natuurlijke rubberlatex

NO Dette produktet er ikke fremstilt av naturlig gummilatex

PL Ten produkt nie został wykonany z lateksu z kauczuku naturalnego

PT Este produto não é fabricado com borracha de látex natural

RO Acest produs nu este fabricat din latex din cauciuc natural

RU В производстве данного продукта не используется латекс из природного каучука

SK Tento výrobok nie je vyrobený z prírodného gumeného latexu

SL Ta izdelek ni narejen iz lateksa naravnega kavčuka

SV Produkten innehåller inte naturgummilatex

TR Bu ürün doğal kauçuk lateks kullanılarak imal edilmemiştir

ZH 本产品不含天然乳胶



CE mark. The product complies with the EU Council directive concerning Medical Devices 93/42/EEC

Ambu is a registered trademark of Ambu A/S, Denmark.  
Ambu is certified according to ISO 13485.

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## Adjustable Collar for Extrication

### Description

The Ambu® Perfit ACE® collar is a one-piece rigid cervical spine immobilization device designed to assist the rescuer with the maintenance of neutral alignment, prevention of lateral (side-to-side) sway and anterior-posterior (forward and backward) flexion and extension of the cervical spine during transport and routine patient care or movement. The Ambu Perfit ACE is the only collar with 16 sizes for patient immobilization.

### Principles of Immobilization

Prevention and/or further extension of damage to the cervical spine and spinal cord is accomplished by maintaining the head and neck in a position of “neutral alignment.” The head and neck should not be flexed forward, extended backward, or cocked to one side or the other. The neutral alignment position prevents damaged vertebrae or foreign bodies from rubbing and/or cutting the spinal cord. Additionally, the neutral alignment position prevents the spinal cord from being twisted or compressed causing physical and/or ischemic injury to the spinal cord.



#### Warning

The Ambu Perfit ACE collar is intended for application by licensed health care practitioners as directed by a physician or other medical authority. Permanent injury may result from use other than as directed by a physician or other medical authority.

An extrication collar is only part of total patient immobilization.  
Single patient use.

It is important that practitioners are trained and practiced in the use and application of the device and that all instructions are read and understood prior to application of the collar.

All directions are to be considered as guidelines and not an attempt to define medical practice. Use the device only after review and approval from the supervising medical authority.

### Directions for Use

#### STEP 1

Have one rescuer manually stabilize the head and neck, gently holding the head and neck in the neutral alignment position (Figure 1).

Note: If resistance is felt or an increase in patient discomfort is noted, follow your established protocols for immobilization of the cervical spine in the presence of known or suspected cervical dislocation.

#### STEP 2

Once the head and neck are manually stabilized, a second rescuer should apply an Perfit ACE collar to the patient. Size the collar as determined below. Applied collar must not hyper-extend patient's neck.

#### STEP 3

Measure the distance between an imaginary plane drawn horizontally and immediately below the patient's chin and second horizontal plane drawn immediately on top of the patient's shoulder (Figure 2).

#### STEP 4

Compare this distance with the distance from the collar sizing line to the lower aspect of the plastic collar body (not the foam) (Figure 3).

## STEP 5 SIZING

The Perfit ACE collar is preset to Neckless Size 3. If a larger size collar is needed, disengage the safety locks by pulling UP on the buttons (Figure 4).

## STEP 6

Adjust the collar to the appropriate size: the Perfit ACE provides 16 ratchet settings between the traditional Neckless (Size 3) and Tall (Size 6).

Simply pull the collar apart until the distance between the sizing line and the plastic collar body equals your finger measurement (Figure 5).

## STEP 7

Engage the safety locks by pushing DOWN on the safety buttons (Figure 6).

## STEP 8

If the Perfit ACE needs to be resized, disengage the safety locks and pull "OUT" on the ratchet latches ("arrows") (Figure 7, Figure 8).

The Perfit ACE may now be adjusted to smaller sizes (Figure 9).

Reset the ratchet latches by pressing "IN" on the "arrows" (Figure 10).

Now engage the safety locks by pressing DOWN on the safety buttons (Figure 11).

## Collar Assembly

The collar is assembled as follows: (Figure 12)

Hold the collar near the tracheal opening with one hand. Place the index finger on the foam side of the chin piece (on the center rivet) and the thumb on the plastic side of the chin piece (on the center rivet) and simply flip the chin piece from the back of the collar to the front of the collar (Figure 13 and 14). This automatically forms the chin piece and places it in the position of function.

## Application

Proper application of any extrication collar requires two individuals. The first rescuer should maintain stabilization and neutral alignment of the head and neck by grasping the head with a spread finger technique (Figure 15).

1. The second rescuer should slide the front of the collar along the patient's chest and position the chin piece. The collar body should rest on the top of the patient's shoulder and against the sternum without gaps (Figure 16). The patient's chin must rest securely in the chin piece in neutral alignment position (Figure 17).
2. While holding the front of the collar in place, wrap the back of the collar around the back of the patient's head and neck and secure to the front of the collar with the Velcro® tab (Figure 17).
3. Adjust the Velcro tab as necessary by holding the front cutout of the collar and tightening the Velcro tab (Figure 18).



### Warning

Maintain neutral head and neck alignment during the entire procedure. Once the collar is properly applied and the patient is immobilized, the head should not be released. Further immobilize the head and neck with head blocks or a head immobilizer and secure the patient to the backboard with appropriate retention straps.

## **Supine Application**

If the patient is supine, slide the back portion of the collar directly behind the patient's neck (Figure 19 or 20). The collar may be applied from either side. Once the back portion of the collar is evenly positioned behind the head, the front portion of the collar can be positioned under the chin (Figure 21). While maintaining the proper positioning of the collar with one hand, attach the Velcro with the other hand (Figure 22). Ensure that the loop Velcro tab is firmly attached and parallel to the fixed hook Velcro tab on the front of the collar.



### **Warning**

Maintain neutral head and neck alignment during the entire procedure. Once the collar is properly applied and the patient is immobilized, the head should not be released (Figure 23). Further immobilize the head and neck with head blocks or a head immobilizer and secure the patient to the backboard with appropriate retention straps.

## **Tube hook**

A nasal airway tubing can be attached to the hooks at both sides (Figure 24).

## **Cleaning**

To eliminate any risk of cross infection between patients it is recommended to discard the product after use.

The surface of the product can be cleaned with water and a mild detergent or using a disinfecting agent. Rinse it thoroughly with clean water and allow it to dry before reuse.

Before reuse, make sure that the product is intact and fully operationable. Otherwise it should be discarded.

## **Warranty/Guarantee**

Ambu warrants its products to be free from defects in workmanship and materials when purchased through Ambu or its authorized channels of distribution and used in accordance with recommended procedures. Should any product be found to be defective when unpacked, obtain a return authorization number from Ambu before sending it back. Repair or replacement will be made at no charge.



US: Rx only

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