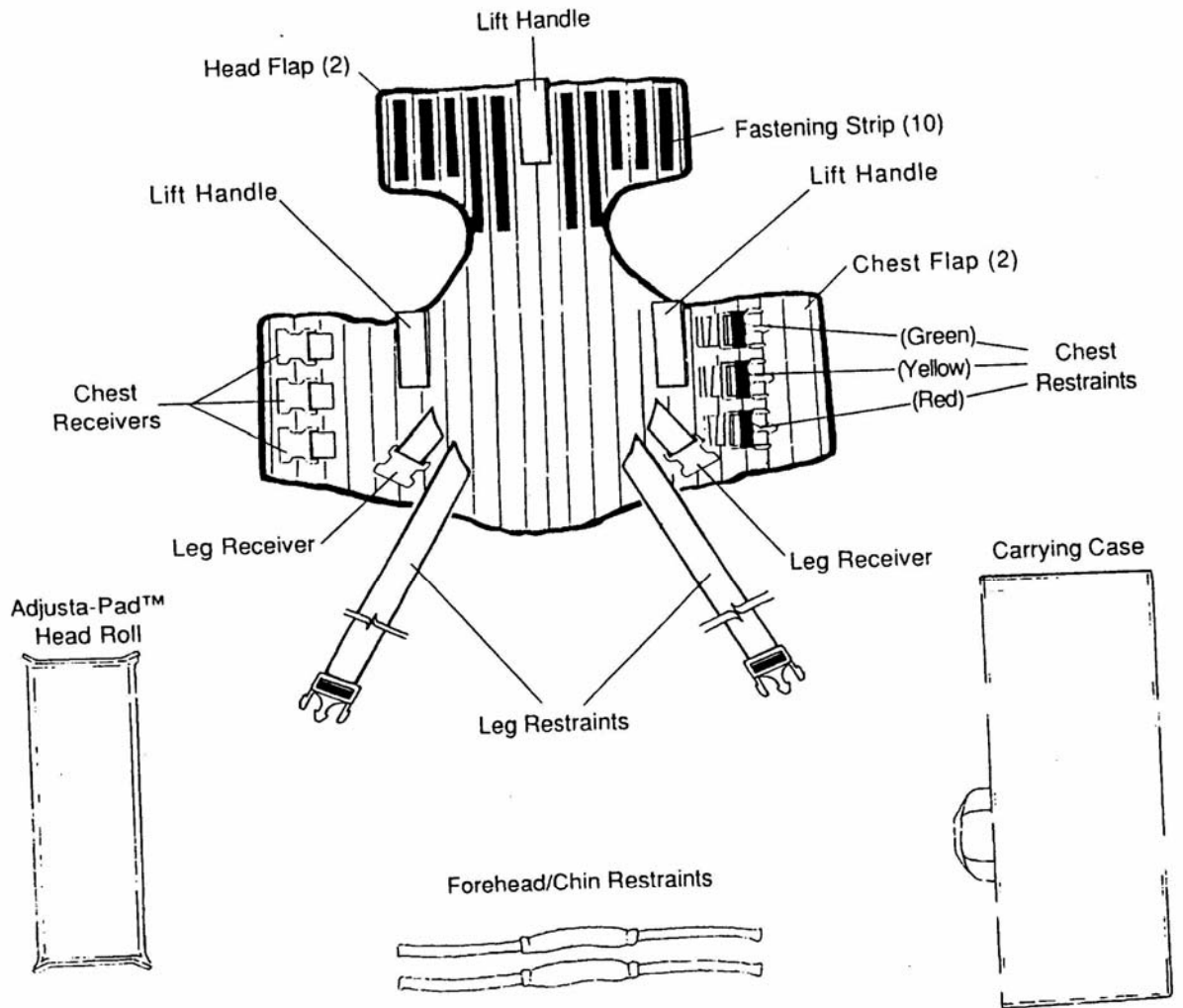


Components

Back Side



Using the KED

Qualified EMS personnel should assess the patient's condition and determine the proper procedures and equipment to use.

Use a minimum of three operators to apply the KED. One operator supports the patient's head and neck at all times while operators on each side of the patient apply the KED.

Remove the KED from the carrying case. Unroll the KED and set the head roll and forehead/chin restraints aside.

Have one operator support the patient's head and neck during the application of the KED.

Position an operator on each side of the patient. Place the back side of the KED (with the restraints and receivers) away from the patient and slide the KED behind the patient's back with the head end in first. (Figure F). Use care to minimize patient movement.

Center the KED along the patient's spine and position the top of the chest flaps just below the patient's armpits (Figure G).

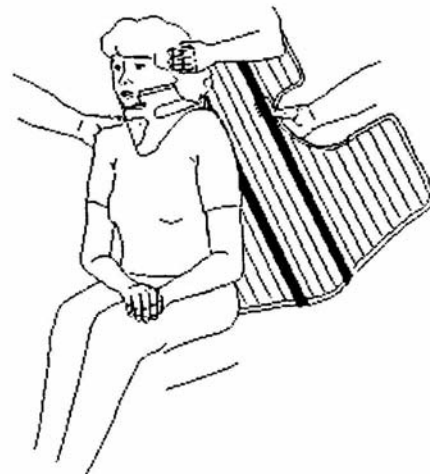
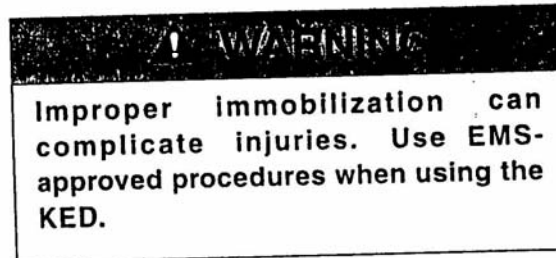


Figure F



Figure G

Using the KED (continued)

Slide the leg restraints from behind the patient and lay them aside (Figure H). Release the chest restraints from the hook and loop holders.

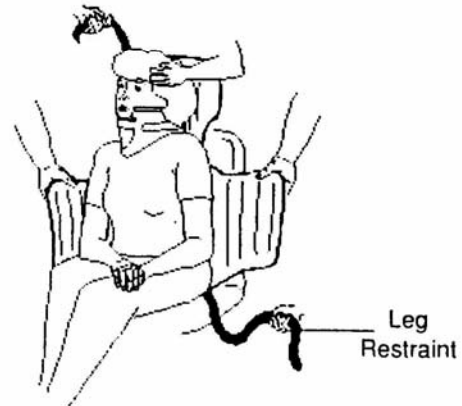


Figure H

Wrap the chest flaps around the patient. Fasten the chest restraints so that they hold the KED in place (Figure I).

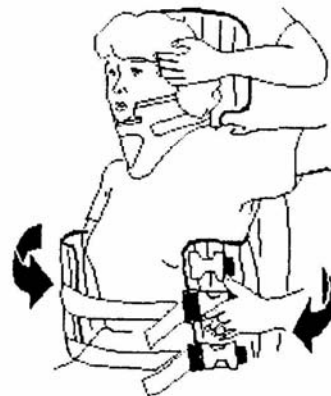


Figure I

Use the lift handles to raise the KED until the tops of the chest flaps press firmly under the patient's armpits (Figure J). Take care not to move the patient's spine when lifting the KED into place. Tighten the chest restraints to secure the KED in place.



Figure J

Using the KED (continued)

Slide the leg restraints up between the patient's legs using a see-saw motion. Cross and secure the leg restraints in the opposite leg receivers (Figure K). The leg restraints should make contact with the pelvic bones. Tighten the leg restraints.

When a groin injury is suspected, do not cross the leg restraints. Secure the leg restraints in the leg receivers on the same side (Figure L).

Use of leg restraints is not recommended when a patient has suffered a femur fracture.

Note: Medical authorities differ on the need for leg restraints. Follow the EMS medical advisor's guidelines regarding the use of leg restraints.

Fill any gap between the KED and the patient's head with the head roll or other suitable padding (Figure M).

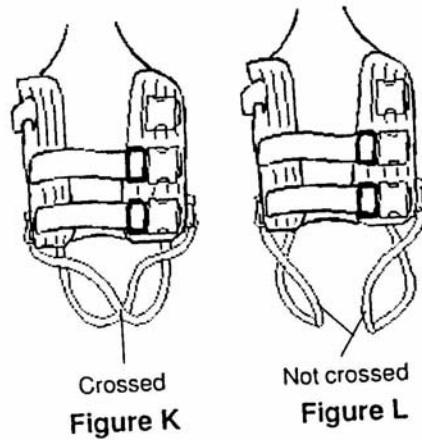


Figure M

Wrap the head flaps around the patient's head and secure the head flaps in place with the forehead/chin restraint(s) (Figure N).

Open the padding of the forehead/chin restraint and place the smooth surface over the patient's eyebrows/forehead area (Figure N). Secure both ends to the fastening strips.

Place the second forehead chin restraint under the chin and across the upper portion of the rigid collar (Figure N). Secure both ends to the head flap fastening strips.

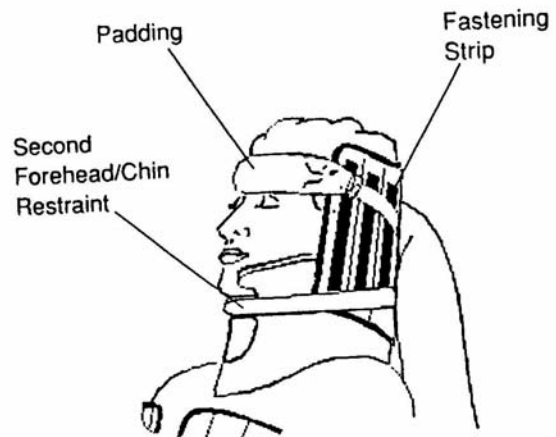


Figure N

Using the KED (continued)

Make sure all the restraints are snug and secure. For the leg restraints, one operator should lift the leg slightly, if possible, while the other operator tightens the restraint. Carefully turn, lift, or tilt the patient for extrication (Figure O).

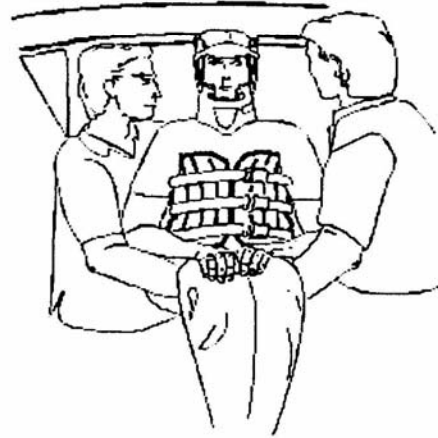


Figure O

When placing a patient on a transporting device (backboard, cot, etc.), use the transporting device's restraints to secure the patient to the transporting device (Figure P).

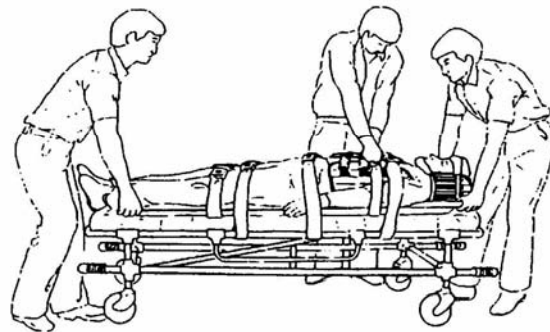


Figure P

Using the KED in Specialized Situations

Pregnant Patients: To use the KED with a pregnant patient, leave the patient's abdomen exposed. Fold two sections of each chest flap inward (Figure Q). Position and carefully tighten the chest restraints.



Figure Q

Using the KED (continued)

Pediatric Patient: To adapt the KED for pediatric use, place blankets or towels on the patient's chest before securing the chest restraints (Figure R).



Figure R

Patient Whose Neck Is Not Straight: To immobilize a patient whose neck is not straight, fold the head flaps inward (Figure S). Secure the patient's head to the KED with the forehead/chin restraints or other restraints/padding authorized by the EMS medical advisor.



Figure S

Patient Splinting: To splint a fractured hip, turn the KED upside down (head flaps toward the patient's feet). Center the KED around the patient's waist (Figure T). Secure the chest flaps with the chest restraints. Use forehead/chin restraints to secure the head flaps around the leg.

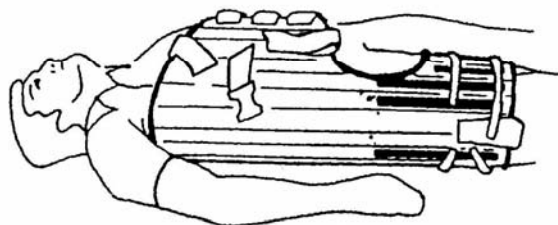


Figure T

To splint a fractured pelvis, turn the KED upside down (head toward the patient's feet). Place the KED around the patient's waist with the chest flaps over the pelvic bone area (Figure U). Secure the chest flaps with the chest restraints. Use forehead/chin restraints to secure the head flaps around leg.

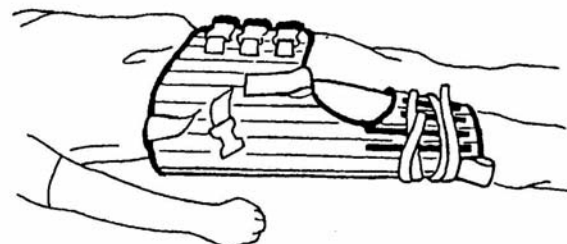


Figure U

Using the KED (continued)

Using with a Pneumatic Anti-Shock Garment:
The KED does not interfere with or limit the use of anti-shock trousers (Figure V).

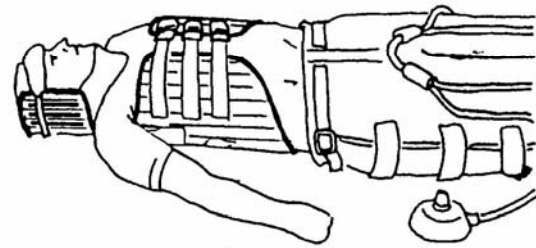


Figure V

Using with a Cardiac Monitor/Defibrillator:
To provide more chest exposure, fold two sections of each chest flaps inward (Figure W). Unfasten the green and yellow chest restraints to perform defibrillation.

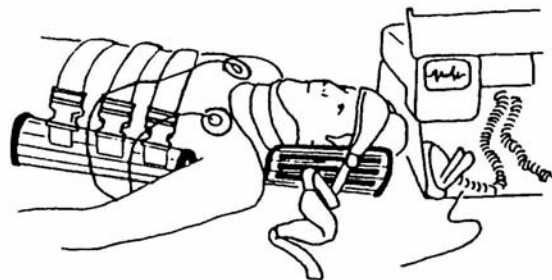


Figure W

Repacking the KED

Always clean and dry the KED before returning it to the carrying case (*Scheduled Maintenance*, page 16).

Lay the KED on a flat surface with the back side of the KED facing up. Fold the chest restraints accordion style and secure them with the hook-and-loop holders (Figure X).

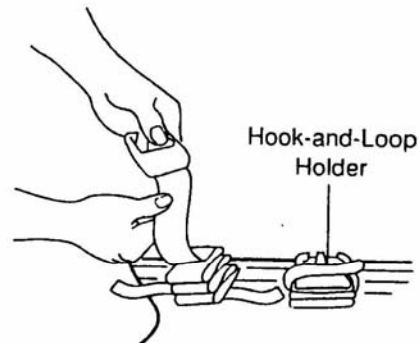


Figure X

To store the leg straps, pull each leg restraint across the front of the KED and secure to a fastening strip on the back side (Figure Y).

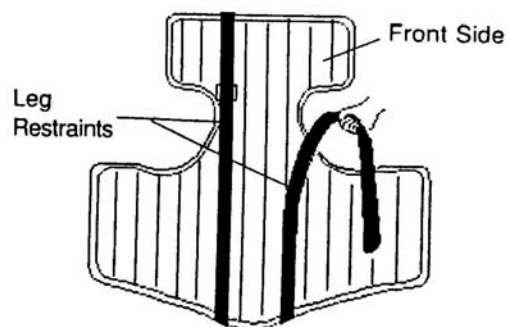


Figure Y

Using the KED (continued)

Roll the KED starting with the chest flap that has the chest restraints (Figure Z). The head roll and the forehead/chin restraints may be rolled with the KED or separately. Store all items in the carrying case.

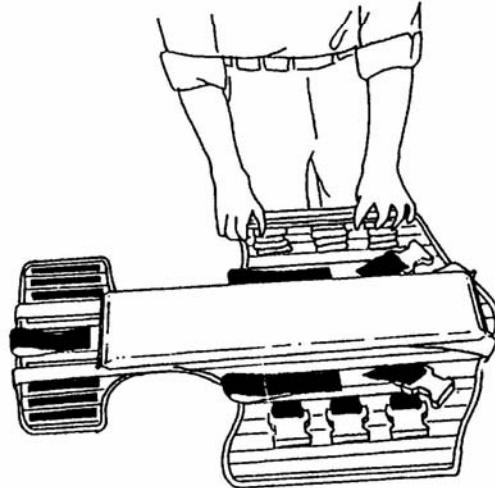


Figure Z

Scheduled Maintenance

Clean the KED after every use with warm water and a mild detergent. Disinfect the KED with an approved disinfectant (*Bloodborne Disease Notice, page 4*). Air dry the KED before placing it in the carrying case.

Keep maintenance records.
A convenient form is provided on page 19.

Inspect the KED monthly, as a minimum. Look for anything that might affect the integrity of the KED. If damage is found, take the KED out of service. See *Replacement Parts and Service, page 17*.

! WARNING
Improper maintenance can cause injury. Maintain the KED only as described in this manual.

Customer Service

Customer service and product support are important aspects of every Ferno product. For assistance, contact Ferno Customer Service.

Ferno-Washington, Inc.
Attn: Customer Service
70 Weil Way
Wilmington, Ohio 45177-9371

Telephone 800/73-FERNO
513/382-1451
Fax. 513/382-1191

Product Description

The Model 125 KED (KED) is designed to aid in the immobilization of patients with suspected spinal/cervical injuries or fractures.

The KED features include leg and chest restraints, wraparound head flaps, forehead/chin restraints, an Adjusta-Pad™ Head Roll, and a carrying case.

General Specifications

Length, flat 33 in 84 cm
Width, flat 32 in 81 cm
 rolled 10 in 25 cm
Thickness, flat 1 in 2 cm
 rolled 5 in 13 cm

Weight..... 7 lb 3 kg
Weight Limit 500 lb 136 kg

Measurements are rounded to whole units.
Contact Ferno Customer Service for detailed specifications.
Ferno reserves the right to change specifications without notice.

Related Products

Ferno offers a complete line of related products for use with the KED. For more information, contact your local Ferno dealer or Ferno Customer Service.

Model 453 Cervi VII™ Collar
Model 454 Cervi VII™ Disposable Collar
Model 651 Vacuum Splint Kit

Models 443, 444 ... Fernotrac™ Traction Splint
Models 2001-16, 18 Plastic Backboards
Series 740 and 750 Wooden Backboards