

# K.E.D

## Kendrick Extrication Device

For patients with significant Mechanism Of Injury (MOI), (an indication of possible spinal injury) that

- **Do not** have IMMEDIATE life threatening injuries
- **Do not** have to be removed quickly to access a second critical patient
- Are not in significant danger from the scene location (Fire, chemical, weather, etc.)

### 1) Stabilize Head

- a) Approach from the front - advise patient not to move.
  - Take manual stabilization immediately – **Will not be released till patient is strapped to board.**
- b) Assess for life threats – if found perform “rapid take down”
- c) Obtain Vitals

### 2) Insert K.E.D. between patient and seat

- a) Insert before moving patient to neutral position if possible
- b) Make sure straps are controlled
- c) Insert top between arms of person holding stabilization and center on patient’s spine.
  - May use leg strap to assist in positioning bottom

### 3) Bring patients head and shoulders to neutral position

- a) Use rescuers on either side of patient to position into neutral position

### 4) Apply cervical collar

- a) Apply properly sized cervical collar

### 5) Wrap K.E.D around patient and pull up into armpits

- a) Re check that KED is properly positioned – centered on patient

### 6) Size, and buckle top strap

- a) Pad with cravats if appropriate to prevent pinching
- b) Snug - do not tighten

### 7) Size and buckle middle strap

- a) Tighten

### 8) Size and buckle bottom strap

- a) Tighten

### 9) Prepare groin straps and see-saw groin straps into place

- a) Straps must come straight down off K.E.D. and under patient
- b) Pad groin area with towel or cravats as appropriate
- c) Straps may be crossed (Left strap to right buckle - preferred) or not (left strap to left buckle).
  - Check for groin injury/pain and apply as appropriate.

### 10) Tighten groin straps

- a) Snug, then Tighten straps at the same time

### 11) Strap head (fold back flaps to expose ears)

- a) Pad between back of head and K.E.D. if required to fill space.
- b) Apply TOP head strap first, with EMTs working together to bring up tension evenly so head does not move. Strap should angle down.
- c) Apply chin strap last, with EMTs working together to bring up tension evenly so head does not move. Strap should angle up.

### 12) Tighten top strap

- a) Assure patients breathing is not impaired

### 13) Check all straps for tightness

### 14) Apply lifting/"restraining" cravats if desired/required

- a) Two cravats tied at ends, see-sawed under hips for lifting
- b) Tie ankles/wrists

### 15) Recheck all straps, move patient

- a) Tip, Turn and lay onto backboard – apply backboard restraining straps, CID
- b) Legs may be released (will be in “bent-knee” sitting position. If pain presents, keep legs elevated, pad up to legs with pillows/blankets.

### 16) RECHECK VITALS