

# El Paso County Search & Rescue



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Systems



# Baseline Rescue System

The following is a visual representation of the step-by-step process for building the primary baseline rescue system used by EPCSAR.

# Equipment

systems kit

200' rope bag x 2



**Step 1: set up the Anchor**



1. Use the orange anchor rope attached to the top of the systems kit to build the anchor.
2. Lay out a short length of rope to one side to tie a double sheet bend.
3. Walk the rope behind the object being used as your anchor.
4. Walk the rope out to the designated point, back around the object, and repeat to create 2 loops.
5. Leave the longer length of rope to the side opposite the short end.



1. Tie a Figure 8 with the long length of rope as close to the front of the base of the object as possible.
2. Tie a Double Sheet Bend on Figure 8.
3. Pull the 2 loops to take out the slack in the anchor. Make sure the knot is centered on the front of the object.

**The anchor is now ready to support your system(s).**

**Step 2: set up the lowering system**



# Attach bear claw

Use steel carabiner from systems kit.

Gate facing downhill and up off the ground.

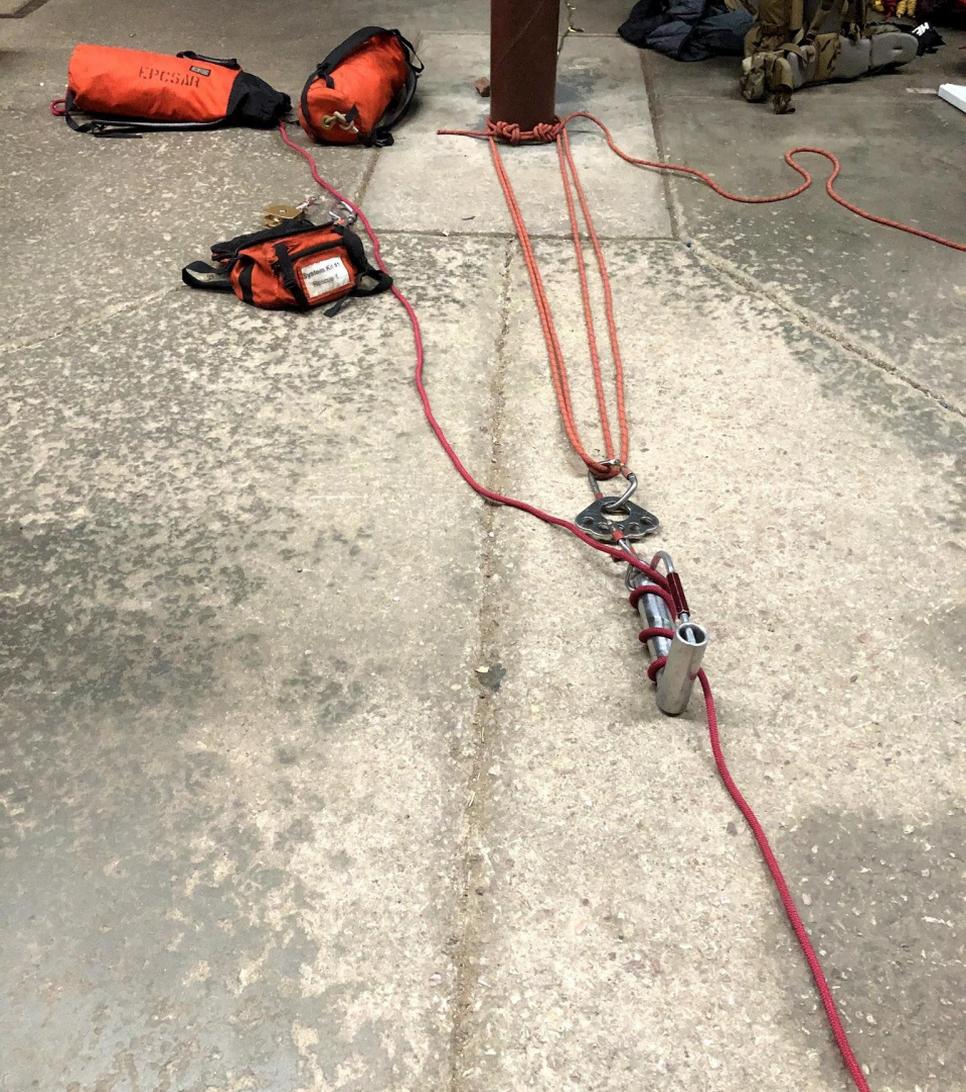


# Attach brake tube

Connect the brake tube to the bear claw on the center hole.

Use steel carabiner from systems kit.

Gate facing downhill and up off the ground.



# Wrap brake tube

Use red 200' rope as your load line.

Wrap load line 3 times around the brake tube (count wraps on the back of the brake tube). Three wraps is team standard.

Be sure the rope comes out of the top of the brake tube in the direction you want the brakeman to be standing.

Close the gate on the brake tube.



# Attach load line to litter

Tie a Figure 8 at the end of the load line.

Clip carabiner from litter bridle into the loop of the Figure 8 (gate facing downhill and up off the ground).

**The lowering system is now ready to accept the load of the litter team and patient.**

**Step 3: set up the piggyback uphaul system**



# Attach tandem ratchet prusiks to load line

Attach aluminum carabiner from systems kit to bear claw in hole next to brake tube (load line side, gate facing downhill and up off the ground).

Tie both ratchet prusiks below brake tube with the shorter prusik closest to the brake tube.

Clip ratchet prusiks into aluminum carabiner and lock gate.



# Remove brake tube

Set prusiks.

Open brake tube gate

Unwrap load line from brake tube.

Unclip brake tube from bear claw and remove from the system..



# Attach piggyback uphaul system

Use alternate color 200' rope as haul line.  
Position to the side of the anchor opposite the load line.

Position aluminum double pulley just below bear claw with aluminum carabiner pointing up toward bear claw, gate facing downhill and up off the ground.

Position steel single pulley (aka "The Traveler") below ratchet prusiks with aluminum carabiner pointing down toward litter, gate facing downhill and up off the ground.



# Attach piggyback uphaul system (cont'd)

Tie Figure 8 knot at the end of the haul line.

Feed haul line down through single pulley,  
up through double pulley (bottom slot),  
back down to single pulley.

Clip aluminum double pulley into bear claw  
in middle slot, lock carabiner.



# Attach piggyback uphaul system (cont'd)

Clip Figure 8 knot at the end of the haul line into the aluminum carabiner attached to single pulley and lock gate. Be sure knot is laying on top of the pulley.

Tie tandem safety prusiks below single pulley with shorter prusik closer to pulley.



# Attach piggyback uphaul system (cont'd)

Clip safety prusiks into aluminum carabiner attached to single pulley / load line and lock the gate.

Firmly set both safety prusiks

**The uphaul system is now  
ready to raise the litter  
team and patient.**