

PART THREE RIGGING A-21 CONTAINER LOADS

CHAPTER 5 GENERAL INFORMATION AND PROCEDURES

5-1. A-21 Cargo Bag Assembly

The A-21 cargo bag assembly is an adjustable airdrop container. It consists of a sling assembly and a 97- by 115-inch canvas cover. The sling assembly consists of the sling portion with a scuff pad attached, two O-ring

straps, three quick-release straps, and one quick-release strap with a quick-release assembly attached. Figure 5-1 shows an A-21 cargo bag assembly.

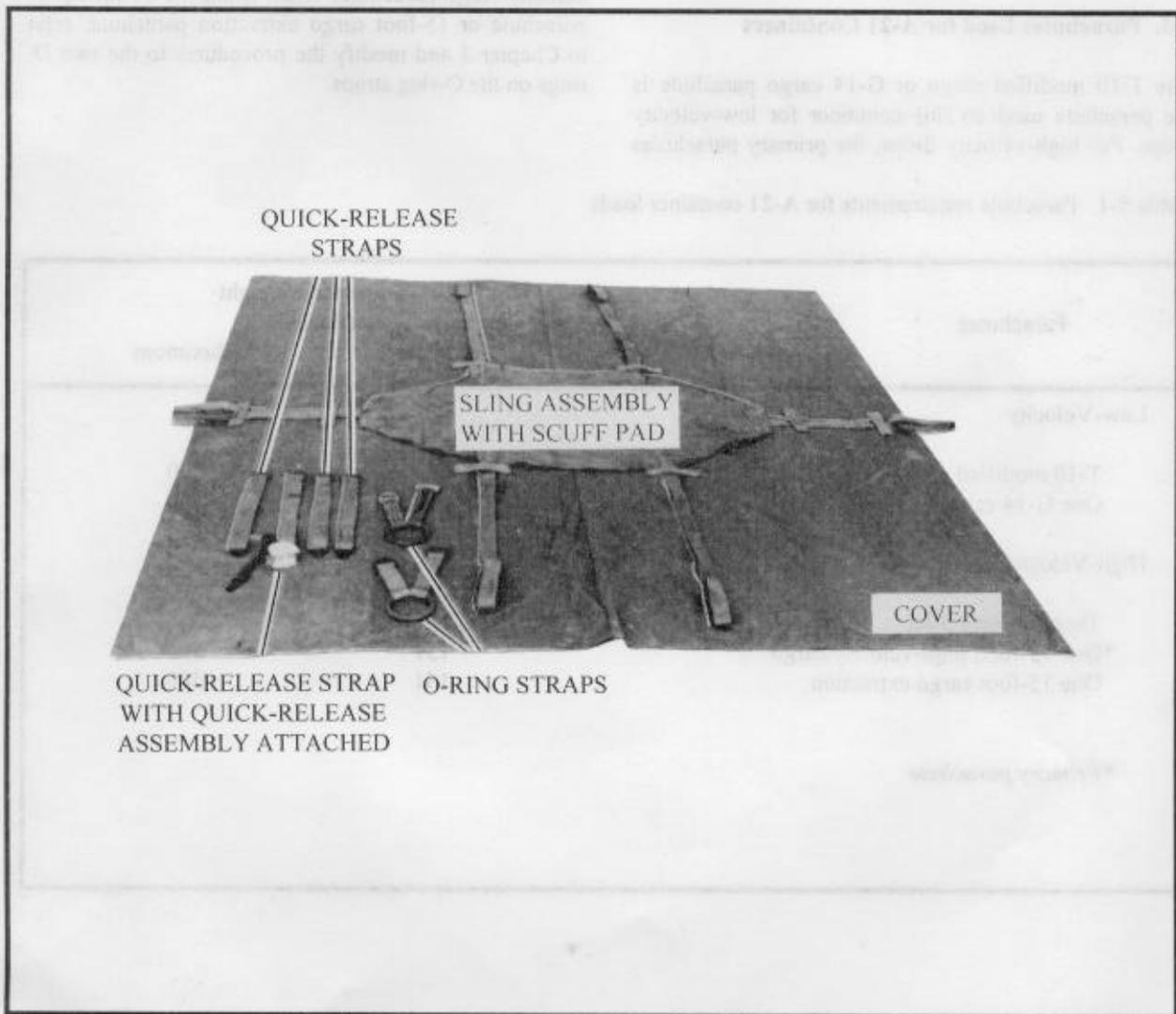


Figure 5-1. A-21 cargo bag assembly

5-2. Capabilities of A-21 Bag

The A-21 container can be dropped from Army and Air Force aircraft. It can exit either through paratroop doors or off the ramp. The container can be rigged for low velocity, high velocity, or HAARS. The container is capable of dropping loads up to 500 pounds of rigged weight, excluding the weight of the parachute. When dropped from the paratroop doors, the load must weigh a minimum of 11 pounds per square foot. When dropped from the ramp, the load must weigh a minimum of 28 pounds per square foot. Table 5-1 lists parachutes used with this container and the weight restriction.

5-3. Parachutes Used for A-21 Containers

The T-10 modified cargo or G-14 cargo parachute is the parachute used on this container for low-velocity drops. For high-velocity drops, the primary parachutes

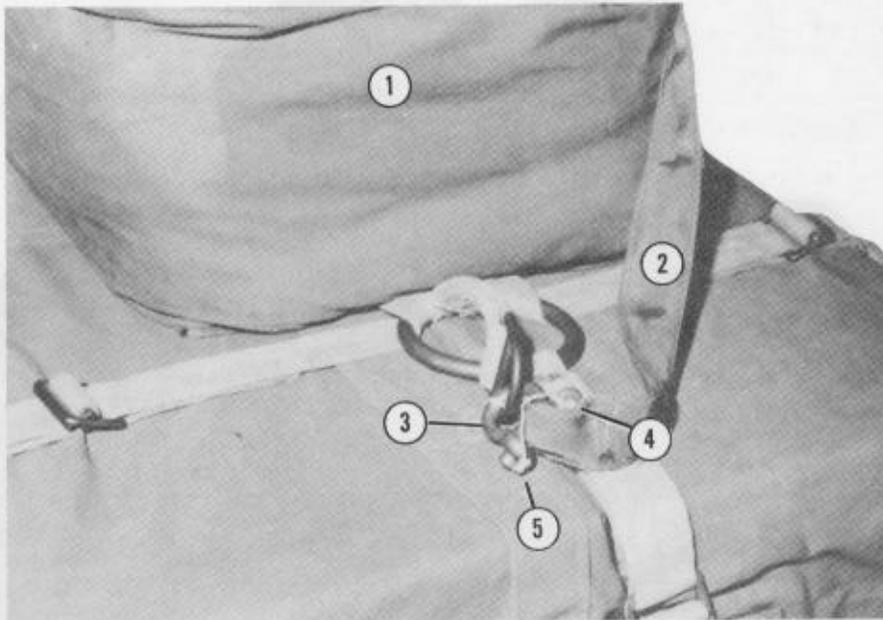
are three 68-inch pilot parachutes or one 12-foot, high-velocity cargo parachute. If a 12-foot, high-velocity cargo parachute is not available, a 15-foot, cargo extraction parachute may be used. Table 5-1 gives the weight ranges.

5-4. Installation of Parachutes on A-21 Containers

All parachutes used on A-21 loads are installed to the two D-rings located on the O-ring straps. Figure 5-2 shows how to install the G-14 cargo parachute. Steps similar to the G-14 cargo parachute installation are used when installing the T-10 modified cargo parachute. Figure 5-3 shows how to install the 12-foot, high-velocity cargo parachute. When using the 68-inch pilot parachute or 15-foot cargo extraction parachute, refer to Chapter 3 and modify the procedures to the two D-rings on the O-ring straps.

Table 5-1. Parachute requirements for A-21 container loads

Parachutes	Suspended Weight (Pounds)	
	Minimum	Maximum
Low-Velocity		
T-10 modified cargo	90	500
One G-14 cargo	200	500
High-Velocity		
Three 68-inch pilot	151	500
*One 12-foot, high-velocity cargo	151	500
One 15-foot cargo extraction	151	500
*Primary parachute		



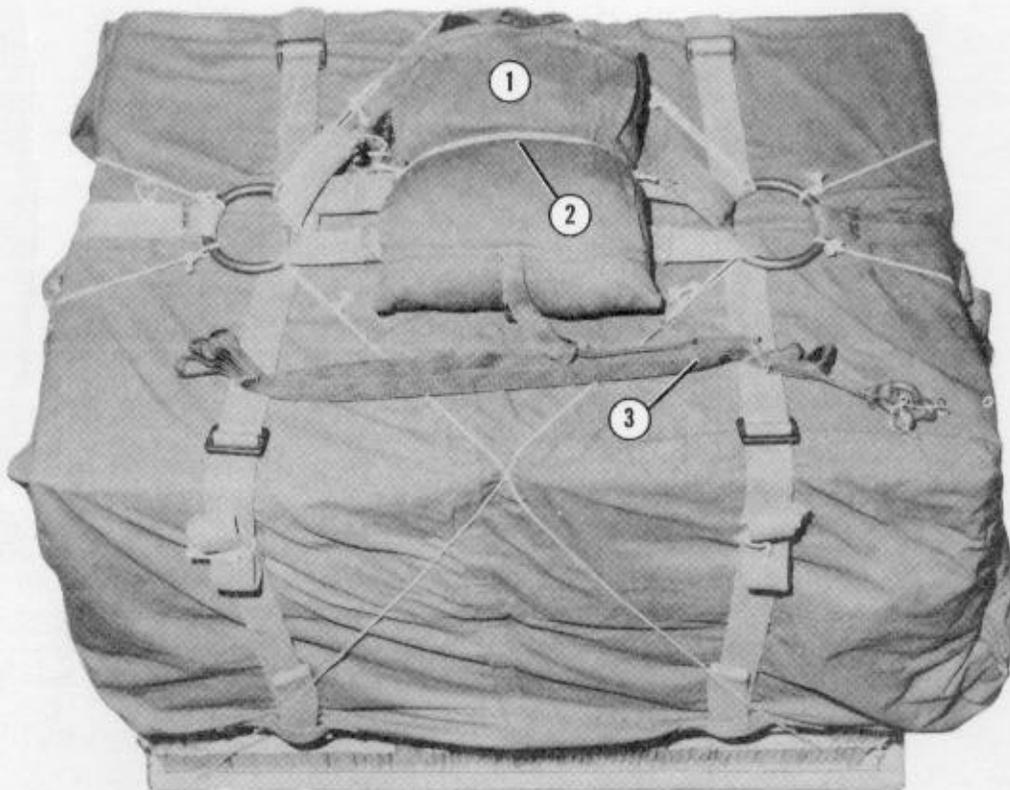
- ① Center the parachute on the load between the O-rings.
- ② Pull each riser to the closer D-ring on the end of the O-ring straps.
- ③ Place the bell portion of the clevis on the D-ring.
- ④ Route the clevis pin through one side of the clevis, through the loop at the end of the riser, and through the other hole on the other side of the clevis.
- ⑤ Insert the cotter pin through the clevis pin and spread the ends of the cotter pin enough to prevent the cotter pin from sliding out.

Figure 5-2. G-14 cargo parachute installed



- ⑥ Repeat steps 3 through 5 with the other clevis.
- ⑦ Tie the parachute tie tapes to convenient points on the load.

Figure 5-2. G-14 cargo parachute installed (continued)



- ① Install the parachute to the load using steps 1 through 6 of Figure 5-2.
- ② Secure the parachute to the load using a length of type I, 1/4-inch cotton webbing. Tie one end to a convenient point on one side of the parachute. Pass the other end over the parachute and tie it to a convenient point on the other side of the parachute.
- ③ S-fold the static line on top of the load. Secure the folds to the top of the load with lengths of ticket number 8/7 cotton thread.

Figure 5-3. The 12-foot, high-velocity cargo parachute installed