

CHAPTER 7

RIGGING M151 TRUCK WITH DETECTOR UNIT

CHEMICAL AGENT AUTOMATIC ALARM VG

PORTABLE XM8

7-1. General

Procedures for rigging the detector unit chemical agent automatic alarm VG portable XM8 in the M151, ¼-ton truck for airdrop on a modular platform are outlined in this chapter. Procedures for rigging the utility truck on this platform will be the same as shown in chapter 2 with the exceptions noted.

7-2. Description of Load

The detector unit chemical agent automatic alarm VG portable XM8 stowed in the M151 truck is rigged on an 8-foot modular platform with one G-11A cargo parachute and other items of airdrop equipment. The detector unit chemical agent automatic alarm VG portable XM8 consists of two components, the detector and the alarm unit. The unrigged truck with detector unit chemical agent automatic alarm VG portable XM8 weighs 2,414 pounds. It is 133 inches long, 64 inches wide, and 71 inches high, reducible to 52 inches.

7-3. Preparing Truck

Prepare truck according to procedures outlined in chapter 2 with the following exceptions:

a. Securing Alarm Unit. Safety the alarm unit with one turn of type III nylon cord, making the tie around the alarm unit and the bracket (fig 7-1). Position two 3- by 10- by 16-inch pieces of honeycomb directly forward of the alarm unit as shown in figure 7-1. Make a cutout in a 3- by 8- by 16-inch piece of honeycomb and position over the alarm unit (fig 7-1). Secure honeycomb to alarm unit using type III nylon cord.

b. Securing Detector. Safety the detector using one turn of ½-inch tubular nylon as shown in figure 7-2.

7-4. Stowing Cargo Parachutes

a. Positioning Honeycomb on Hood. Position a 3- by 16- by 54-inch piece of honeycomb on hood

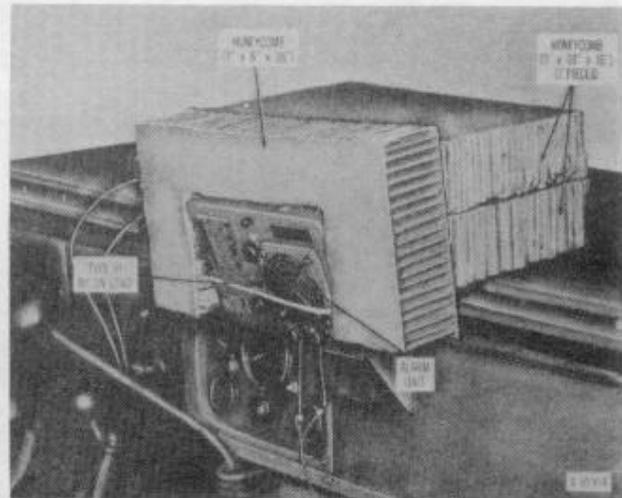


Figure 7-1. Alarm unit secured.

(fig 7-2). Position two 3- by 36- by 64-inch pieces of honeycomb on hood with a 10- by 10-inch cutout to fit around the detector as shown in figure 7-3. Position two ½- by 15- by 36-inch layers of felt or other suitable material on top of honeycomb (fig 7-3).

b. Constructing Stowage Platform. Construct stowage platform from ½- by 48- by 64-inch plywood. Make cutouts from the corners on the 64-inch side as shown in figure 7-4.

c. Positioning and Securing Stowage Platform. Position stowage platform on honeycomb as shown in figure 7-5. Using type III nylon cord and tape, secure stowage platform over alarm unit (A, fig 7-5). Using two 15-foot tiedown straps, two D-rings, and one load binder, secure the stowage platform to the main frame and to the outside of the seat frames, as shown in figure 7-5.

- A. Platform secured to seat frames
B. Platform secured to main frame

7-5. Marking Rigged Load

Mark the rigged load in accordance with FM

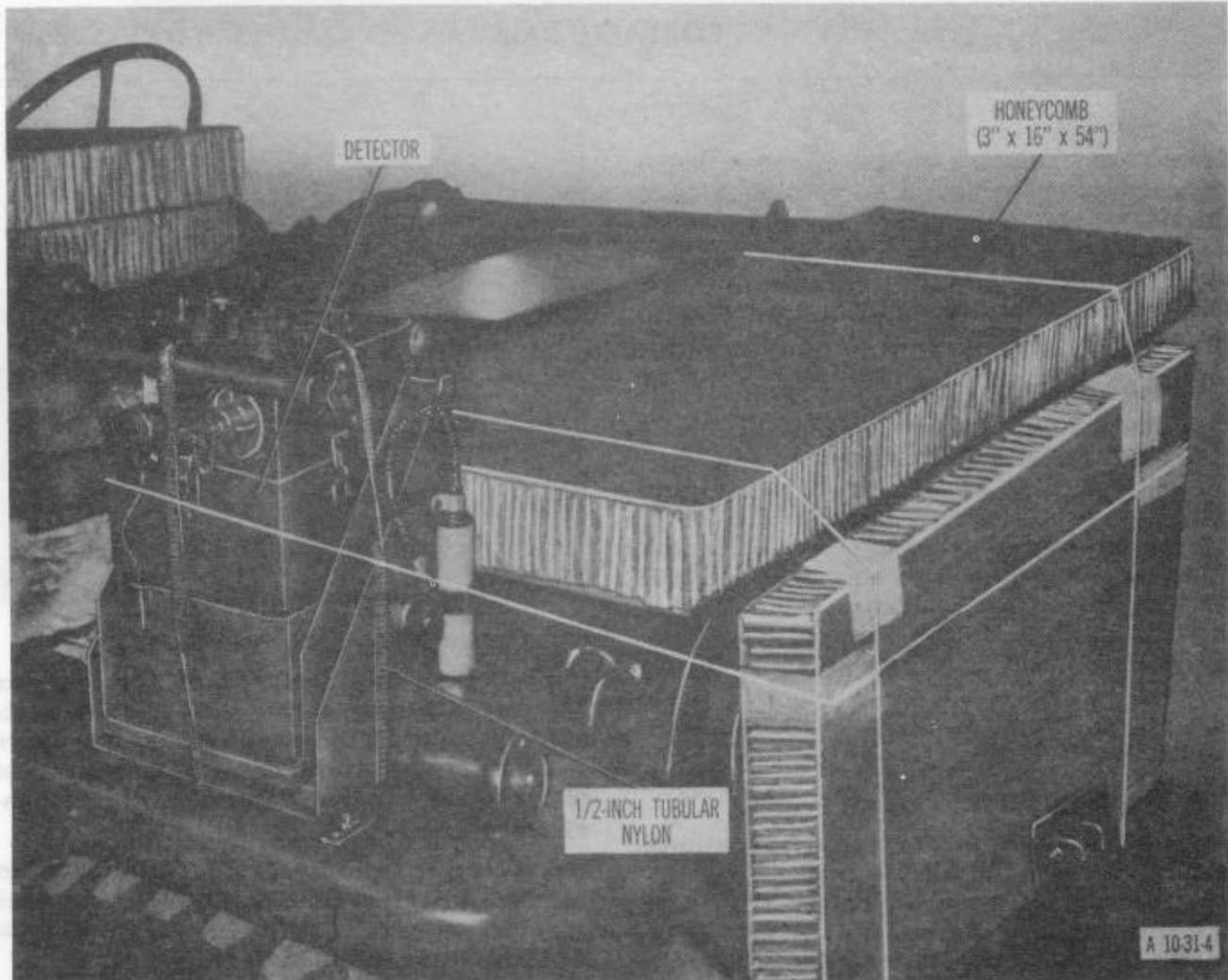


Figure 7-2. Detector secured.

10-500/TO 13C7-1-5. The rigged load weighs 3,102 pounds. It is 72 inches high, 108 inches wide, and 134 inches long with a 24-inch overhang at the front of the platform and a 14-inch overhang at the rear. The center of gravity is 53 inches from the front edge of the platform. If the load varies, the height, weight, center of gravity, and parachute requirements must be computed.

Note. When rigged for airdrop on a drop zone with

ground elevation of 6,000 to 10,000 feet, add 3 inches to the height.

7-6. Equipment Required

The equipment required for rigging the basic load will be the same as that shown in table 2-1. The equipment required for stowing the detector unit chemical agent automatic alarm VG portable XM8 in the M151, ¼-ton utility truck is listed in table 7-1.

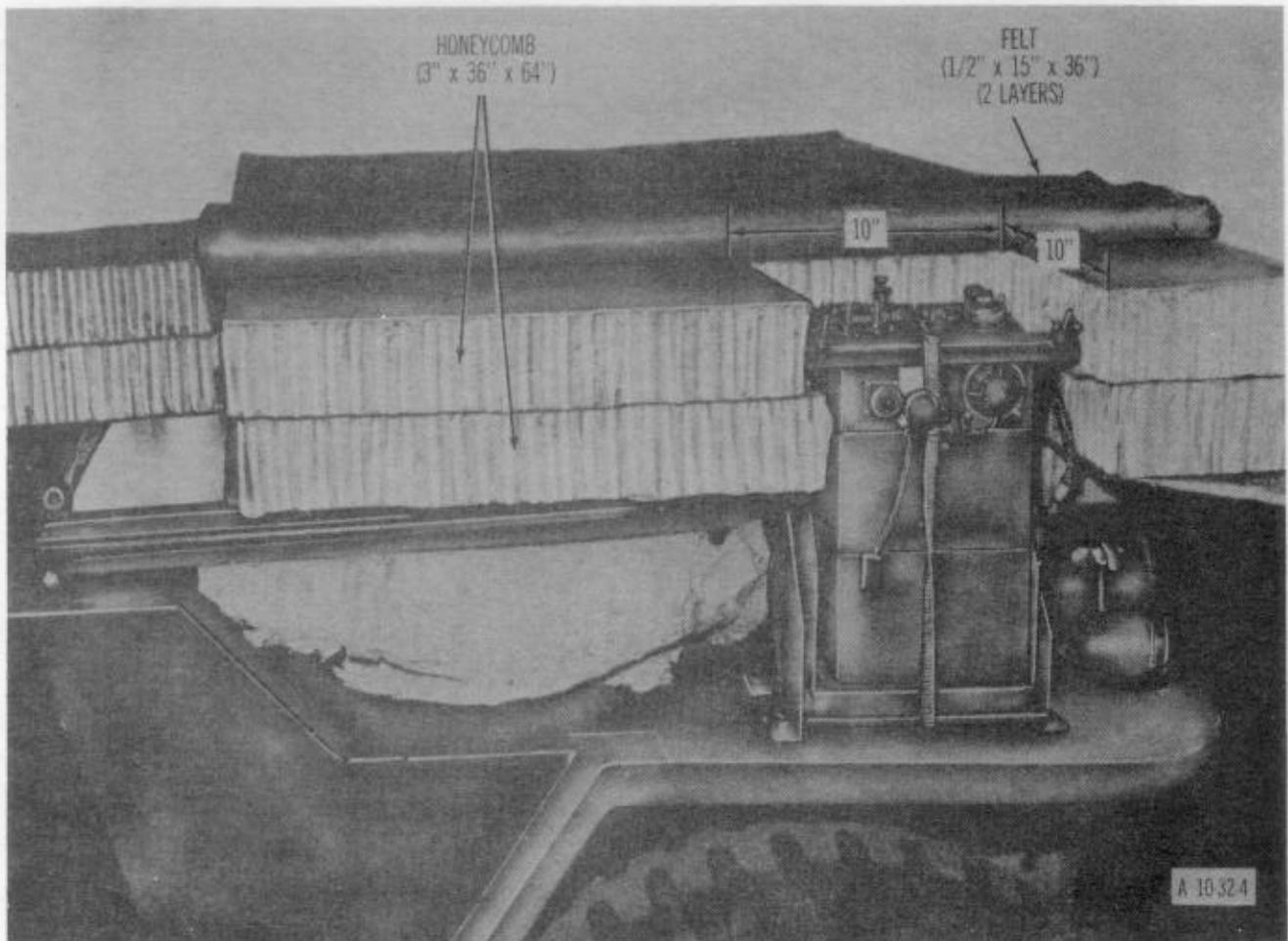


Figure 7-3. Honeycomb and felt positioned on hood.

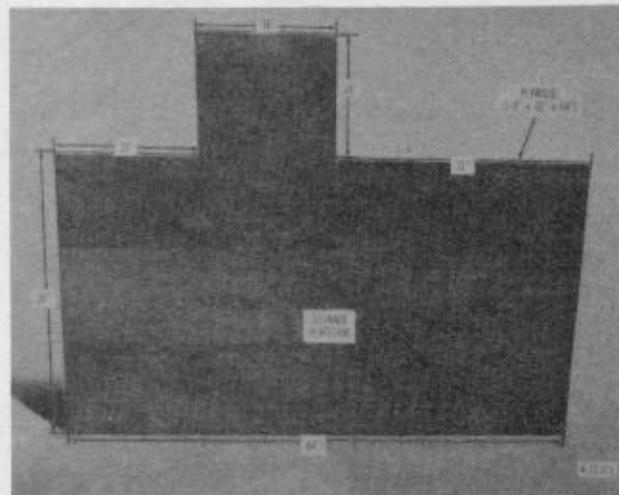


Figure 7-4. Construction details for storage platform.

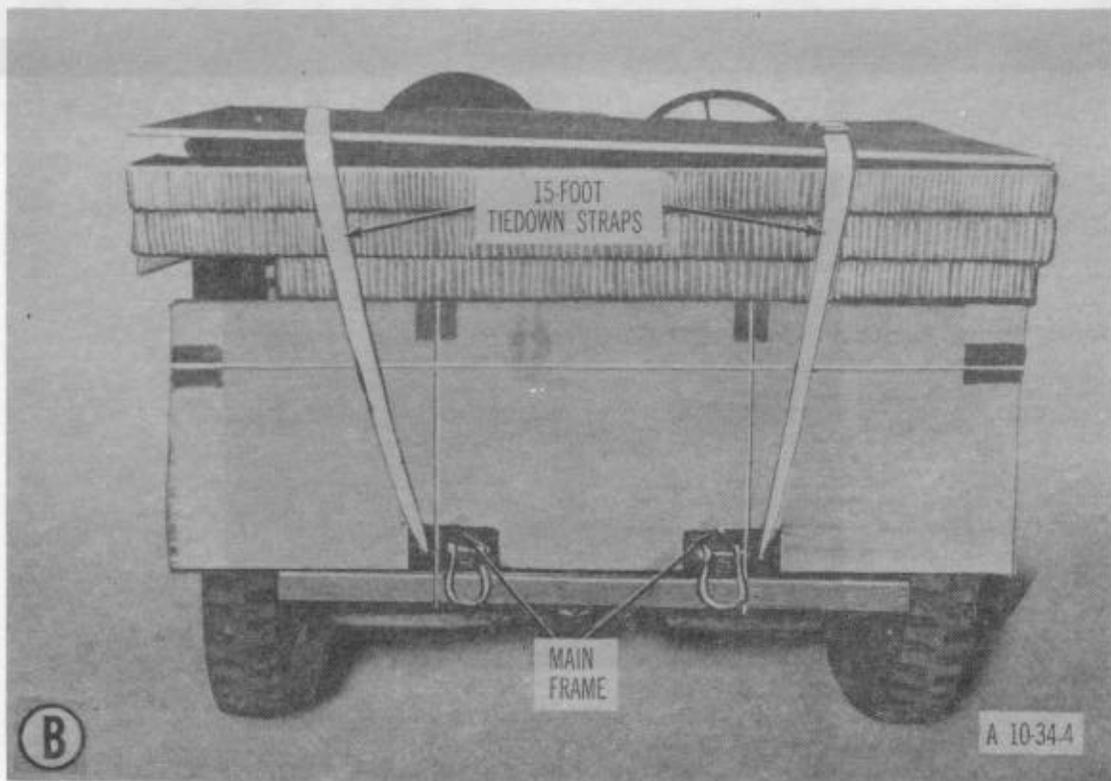
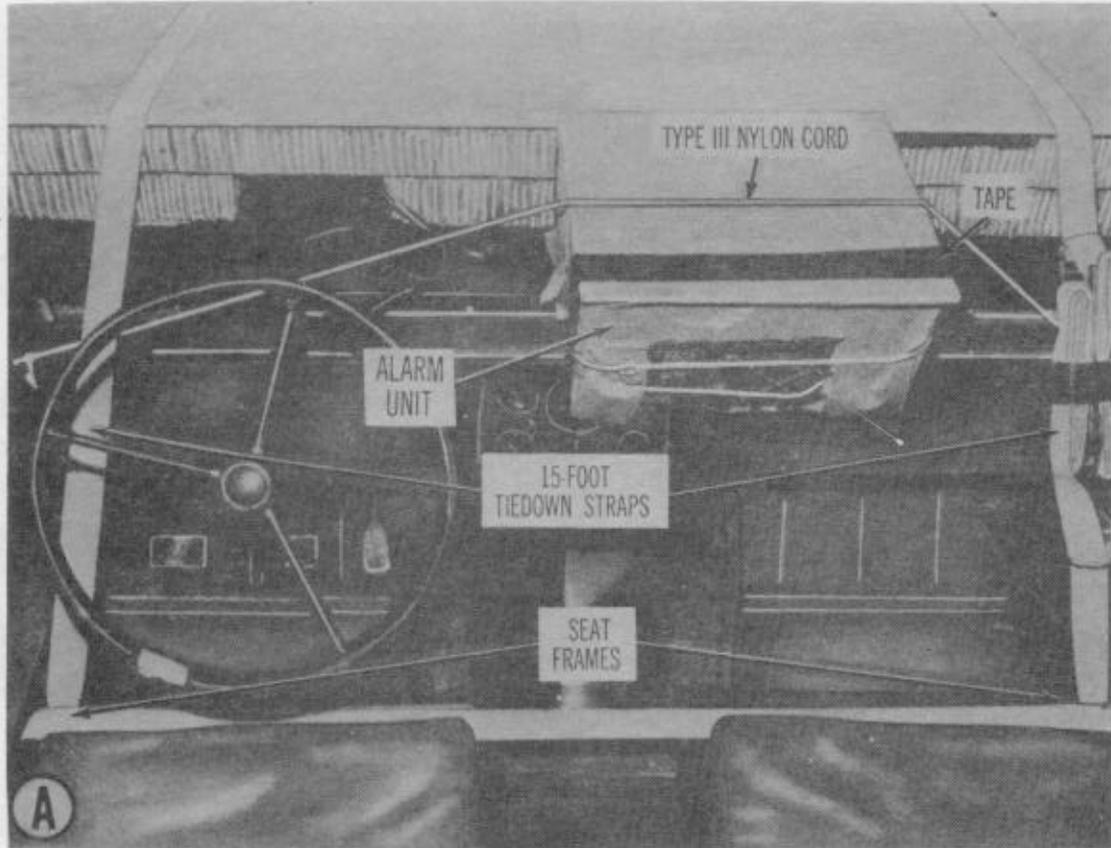


Figure 7-5. Stowage platform secured.

Table 7-1. Equipment Required.

National Stock No.	Item	Quantity
4020-00-240-2146	Cord, nylon, type III, 550-lb -----	As required
8305-00-958-3685	Felt Sheet, ½- by 15- by 36-in -----	2
1670-00-753-3928	Pad, energy dissipating honeycomb, 3- by 36- by 96-inch: -----	2 sheets
	3- by 8- by 16-in -----	(1)
	3- by 10- by 16-in -----	(2)
	3- by 16- by 54-in -----	(1)
	3- by 36- by 64-in -----	(2)
5530-00-128-4981	Plywood, ½- by 48- by 64-in (stowage platform) -----	1
7510-00-266-5016	Tape, adhesive, 2-in -----	As required
1670-00-937-0271	*Tiedown Assembly, 15-ft (Dacron) -----	2

*When this item is not available, the following replacement items are required:

3990-00-360-0248	Binder, load -----	1
1670-00-360-0340	Fastener, strap, cargo tiedown, quick-fit -----	2
1670-00-360-0540	Strap, tiedown, 15-ft -----	2