

CHAPTER 5

RIGGING M151 TRUCK WITH AN/URN-19 POSITION-FIXING NAVIGATION SYSTEM ON MODULAR PLATFORM

5-1. General

Procedures for rigging the AN/URN-19 position-fixing navigation system (PFN system) 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.

5-2. Description of Load

The PFN system mounted in the M151, ¼-ton utility truck is rigged on an 8-foot modular platform with one G-11A parachute, or three G-12D cargo parachutes, and other items of airdrop equipment. The system consists of the computer display unit mounted on the dashboard of the utility truck, the receiver unit mounted on the right rear fender housing, the antenna and antenna mount mounted on the right rear side of the truck, and the preamplifier inside the truck on the side of the right rear fender housing. The complete system, including the control cable, power cable, and antenna cables, weighs 90 pounds.

Note. DO NOT rig this load with three G-12D cargo parachutes when the intended drop zone is at a ground elevation of 6,000 feet or higher.

5-3. Stowing Computer Display Unit and Receiver Unit

Secure the computer display unit to mount with type III nylon cord as shown in figure 5-1. Posi-

tion a 3- by 12- by 22-inch piece of honeycomb on the front seat. Remove the receiver unit and position it on the honeycomb with the instrument panel toward the center of the truck. Using two 15-foot tiedown straps, two D-rings, and two load binders, secure receiver unit to seat (fig 5-1). Position a 3- by 30- by 40-inch piece of honeycomb over the computer display unit and receiver unit and secure it in place with type III nylon cord (fig 5-1). Tape honeycomb to prevent ties from cutting through.

5-4. Stowing Antenna and Antenna Mount

Remove antenna sections, tape sections together and to seat frames (fig 5-1). Remove the antenna mount and secure it to the right front seat with type III nylon cord (fig 5-1).

5-5. Marking Rigged Load

Mark the rigged load according to FM 10-500/TO 13C7-1-5. The weight and center of gravity must be computed.

Note. When rigging this load for airdrop on a drop zone with ground elevation of 6,000 to 10,000 feet, add 3 inches to the height.

5-6. Equipment Required

Equipment required for rigging the basic load will be the same as that shown in table 2-1. Equipment required for stowing the AN/URN-19 PFN system in the M151, ¼-ton utility truck is listed in table 5-1.

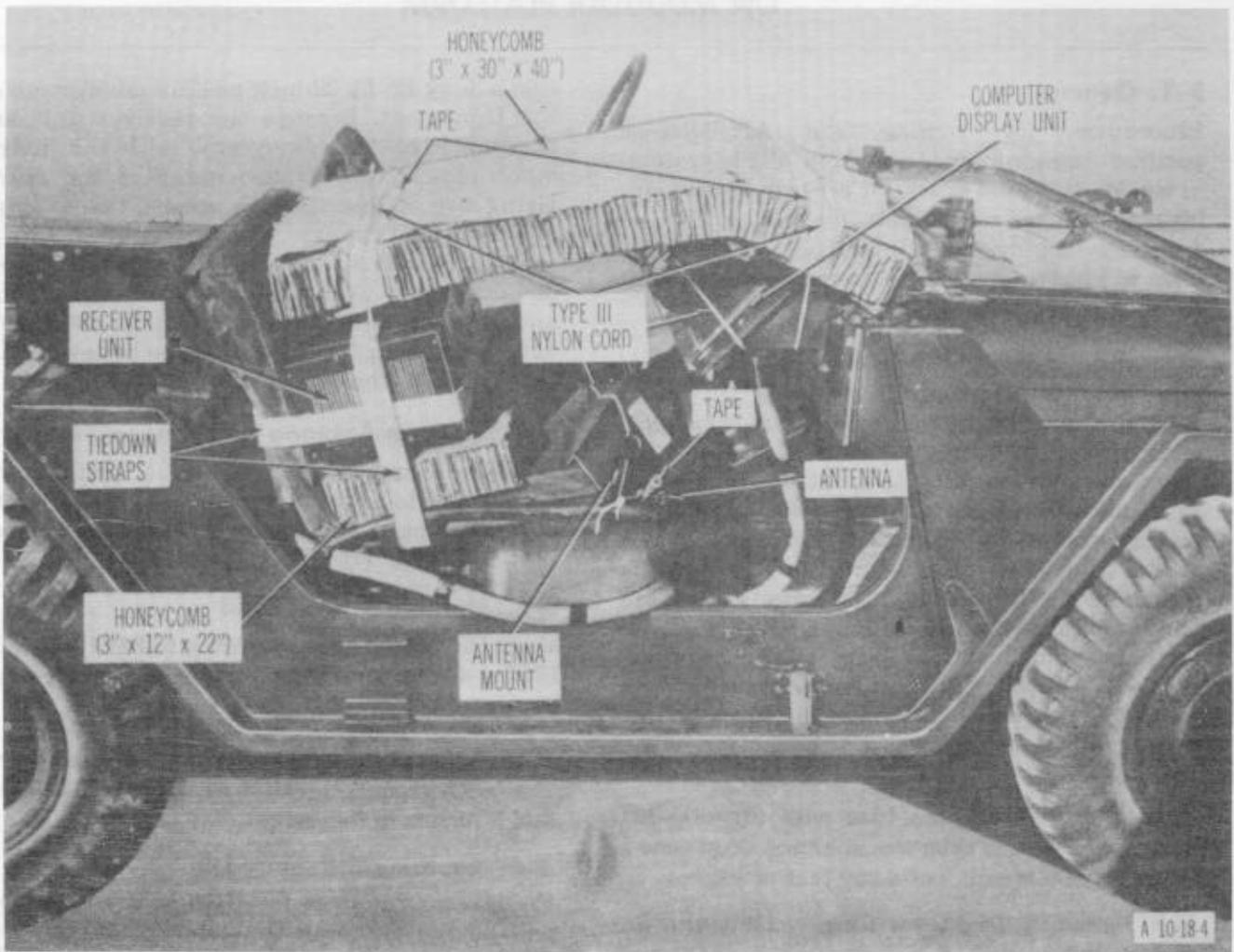


Figure 5-1. AN/URN-19 position-fixing navigation system stowed.

Table 5-1. Equipment Required

National Stock No.	Item	Quantity
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-753-3928	Pad, energy dissipating, honeycomb, 3- by 36- by 96-in:	1 sheet
	3- by 12- by 22-in	(1)
	3- by 30- by 40-in	(1)
8135-00-266-5016	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	2
1670-00-360-0340	Fastener, strap, cargo tiedown, quick-fit	2
1670-00-360-0540	Strap, tiedown, 15-ft	2