

CHAPTER 3

RIGGING M151 TRUCK WITH COMMUNICATIONS EQUIPMENT

3-1. General

Procedures for rigging communications equipment in the M151, ¼-ton truck for airdrop on a modular platform are outlined in this chapter. Procedures for rigging the basic truck on this platform will be the same as shown in chapter 2. The following communications equipment may be rigged in the M151, ¼-ton truck:

a. Radios.

| | | |
|-----------|-----------|-----------|
| AN/GRC-3 | AN/VRC-9 | AN/VRC-21 |
| AN/GRC-4 | AN/VRC-10 | AN/VRC-22 |
| AN/GRC-5 | AN/VRC-12 | AN/VRC-30 |
| AN/GRC-6 | AN/VRC-13 | AN/VRC-34 |
| AN/GRC-7 | AN/VRC-14 | AN/VRC-47 |
| AN/GRC-8 | AN/VRC-15 | AN/VRC-49 |
| AN/GRC-19 | AN/VRC-16 | AN/VRQ-1 |
| AN/PRC-9 | AN/VRC-17 | AN/VRQ-2 |
| AN/PRC-9 | AN/VRC-18 | AN/VRQ-3 |
| AN/PRC-10 | AN/VRC-20 | AN/MRC-95 |
| AN/VRC-8 | | |

b. Other Communications Equipment.

Reeling Machine, Cable, RL-172-G
Reel Unit, RL-31
High-Powered Amplifier System, DE-1492
MRPV-5

3-2. Description of Load

Various types of communications equipment in the M151, ¼-ton truck are rigged on an 8-foot modular platform with one G-11A or three G-12D cargo parachutes and other items of airdrop equipment. When this equipment is stowed in the truck, as many as seven 5-gallon cans of gasoline may be stowed in the truck and/or on the platform. The height, weight, and center of gravity will vary according to the various types of equipment stowed and must be computed by the rigging personnel.

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

3-3. Stowing Communications Equipment

Procedures for rigging communications equipment are classified as general procedures and special procedures. General procedures provide instructions for rigging radio sets singly or in combination. Special procedures provide instructions for preparing the radios that require special, individual preparation.

a. *General Procedures.* The general procedures are shown in figure 3-1. Secure, pad, tie and/or tape all loose radio components. Wrap any small, loose components in cellulose wadding and place in storage compartment located under the right front seat or the one behind the front seats. If antennas are mounted on the rear of the vehicle, bend them forward and secure them to front seats with type III nylon cord. When antennas are mounted on either side of the vehicle, remove antennas and antenna mounts and secure them to convenient location in the vehicle. If the antenna base is mounted on the rear of the M151 truck and is extended above the height of the spare tire, the antenna base must be removed, padded, and secured in a convenient place in the truck. Secure radios to their mounts using 15-foot tiedown assemblies as required. Some light sets, such as the AN/PRC-9 and AN/PRC-10, have their own retaining straps and may be stowed in canvas cases. Make certain that straps are secured properly. If an accessory bag is to accompany the load, secure it in a convenient place with type III nylon cord. If gasoline cans are to be stowed in the rear of the truck, place a piece of honeycomb in front of any radios mounted in the bed of the truck to prevent damage to the instrument panel.

b. Special Procedures.

(1) AN/MRC-95. Procedures for stowing the AN/MRC-95 radio set are as follows: remove teletypewriter set and position on rear seat; make certain that seat holddown pins are secured; place sufficient cellulose wadding on keys to prevent damage upon ground impact. Using

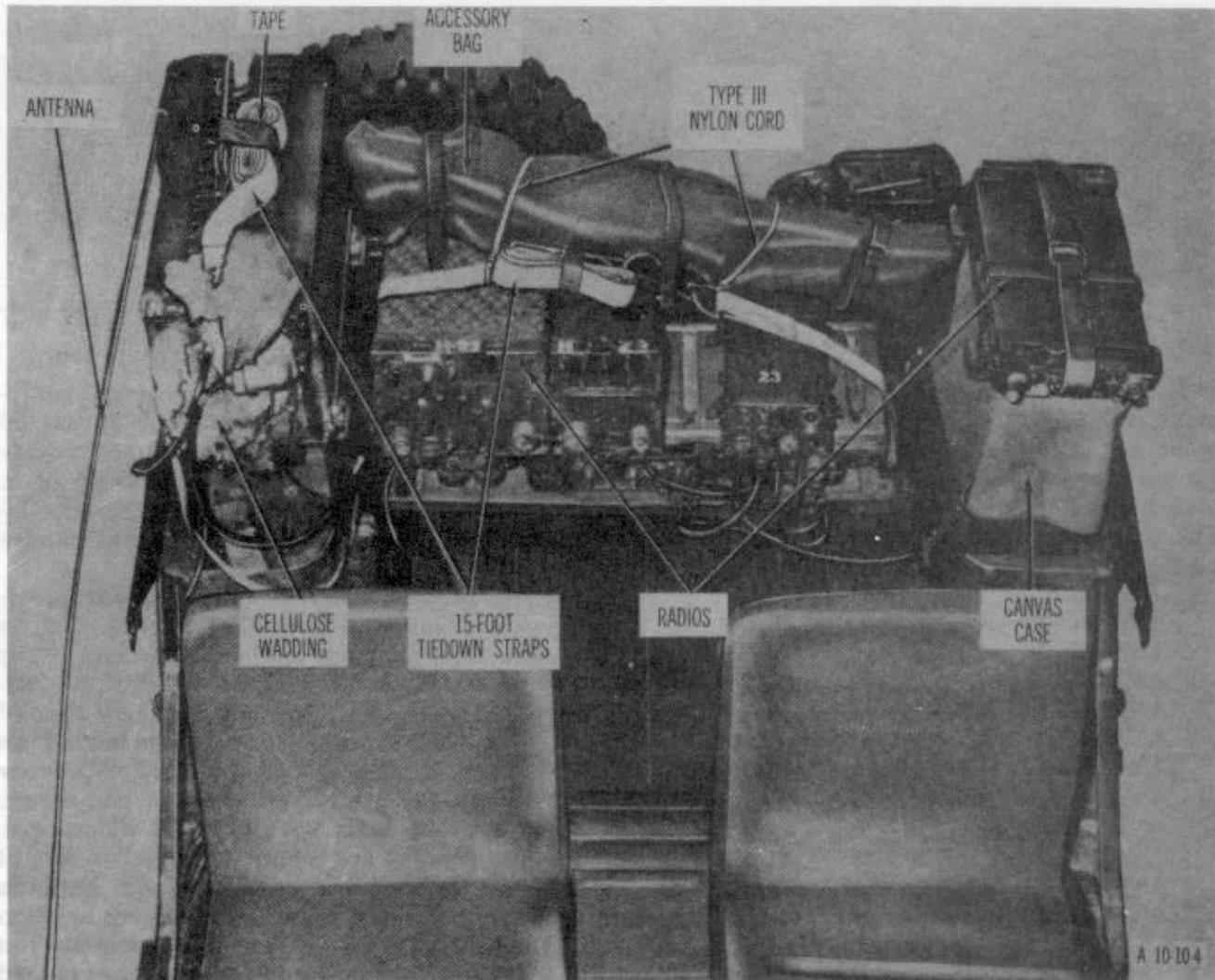


Figure 3-1. Radio sets stowed.

two 15-foot tiedown straps, one load binder, and one D-ring, secure teletypewriter to rear seat as shown in figure 3-2. Pad and tape receiver-transmitter and antenna coupler as shown in figure 3-2. Remove antenna and rubber protector. Stow antenna section in antenna case. Position the antenna, rubber protector, exhaust extension, and remote control cable behind front seats and secure to front seat frame with type III nylon cord (fig 3-2). Position a 3- by 6- by 30-inch piece of honeycomb over antenna base and secure with tape as shown in figure 3-2. Position spare receiver-transmitter on passenger seat and spare antenna coupler on driver's seat. Using two 15-foot tiedown assemblies, secure receiver-transmitter and spare antenna to front seats (fig 3-2). Position accessory box on floor in front of driver's seat and secure it to clutch, brakes, and seat frame with type III nylon cord (fig 3-2).

(2) *MRPV-5*. Remove the R392/URR from its mount and place it in the right front seat. Place one 3- by 12- by 14-inch piece of honeycomb on top of the radio, and lash the radio to the front seat. Place the antenna set in its own carrying case, position it between the front seats, and secure it with type III nylon cord. Other components are left in position. Position one 3- by 12- by 18-inch piece of honeycomb on top of the tape recorder and tape in place.

c. Stowing Other Types of Communications Equipment. Adapting the procedures outlined in FM 10-500/TO 13C7-1-5, other types of communications equipment, such as cable reeling machine, reel unit, and high powered amplifier system, may be rigged as an accompanying load.

Caution. Package, mark, and label gasoline cans according to AFM 71-4/TM 38-250.

