

CHAPTER 4

RIGGING TRAILER WITH GROUND LASER LOCATOR DESIGNATOR

4-1. Description of Load

The M416 trailer with the Ground Laser Locator Designator (GLLD) and the accompanying load of 16 boxes of 105-millimeter ammunition (2 boxes in the trailer and 14 boxes on the platform) are rigged on an 8-foot modular platform. The load needs either one G-11A or one G-11B cargo parachute. The designator components are the tripod, night vision sight, laser designator in backpack, batteries, traversing unit 02 batteries, vehicle power conditioner, night vision sight battery, cables, and collimator. The accompanying load must weigh 430 pounds.

4-2. Preparing Platform and Installing Suspension Slings

Prepare an 8-foot modular platform the same as in chapter 2.

4-3. Stowing and Lashing Accompanying Load

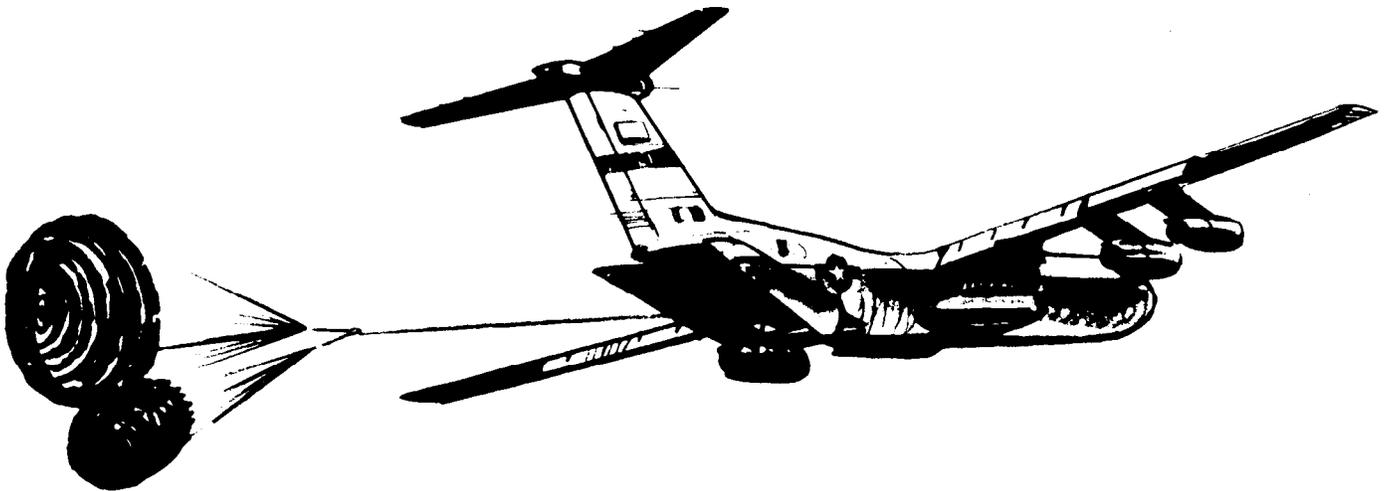
Stow the accompanying load and lash it as in chapter 2.

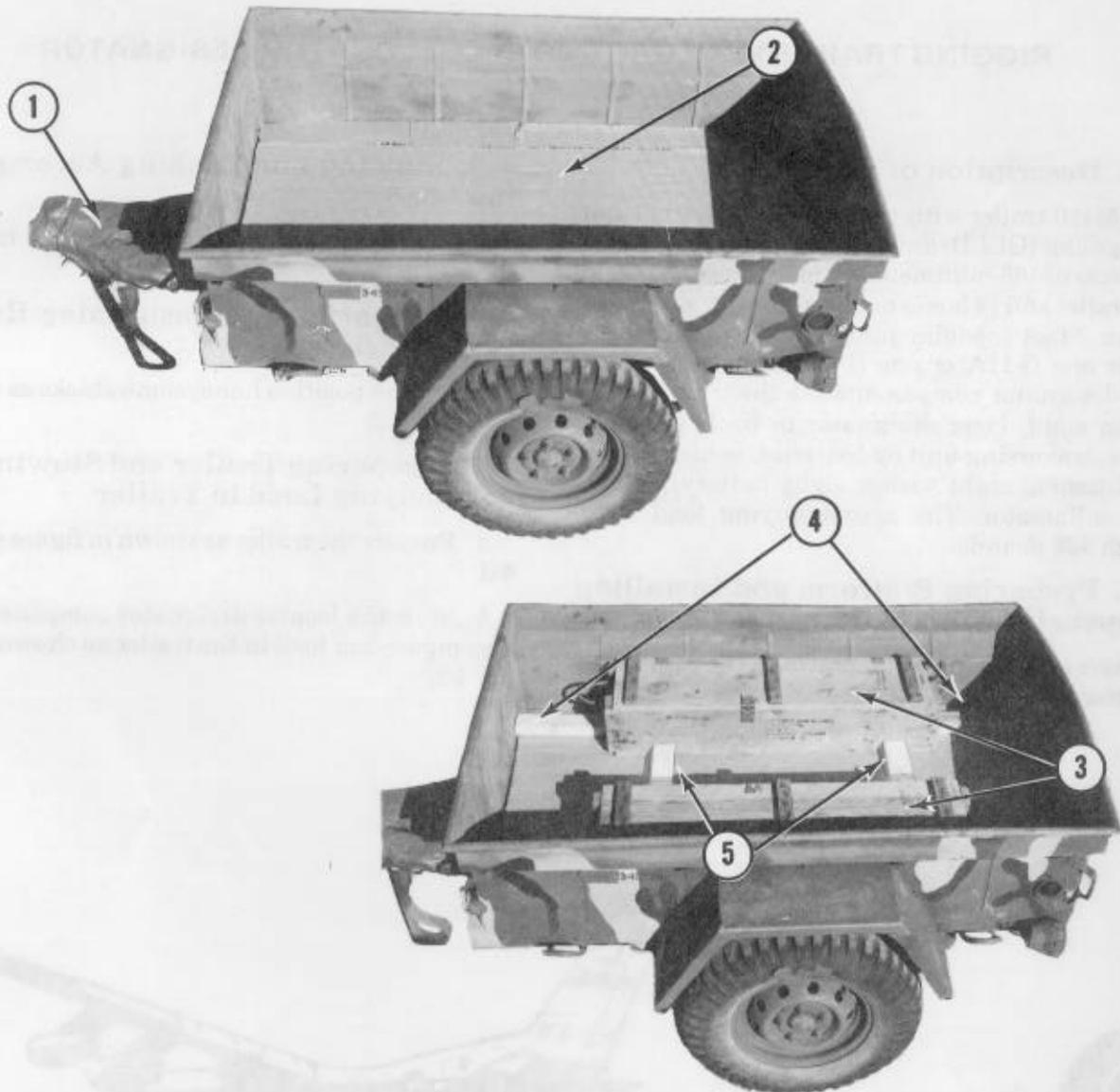
4-4. Preparing and Positioning Honeycomb Stacks

Prepare and position honeycomb stacks as shown in chapter 2.

4-5. Preparing Trailer and Stowing Accompanying Load in Trailer

- a. Prepare the trailer as shown in figure 4-1 and 4-3.
- b. Stow the locator designator component and accompanying load in the trailer as shown in figure 4-2.

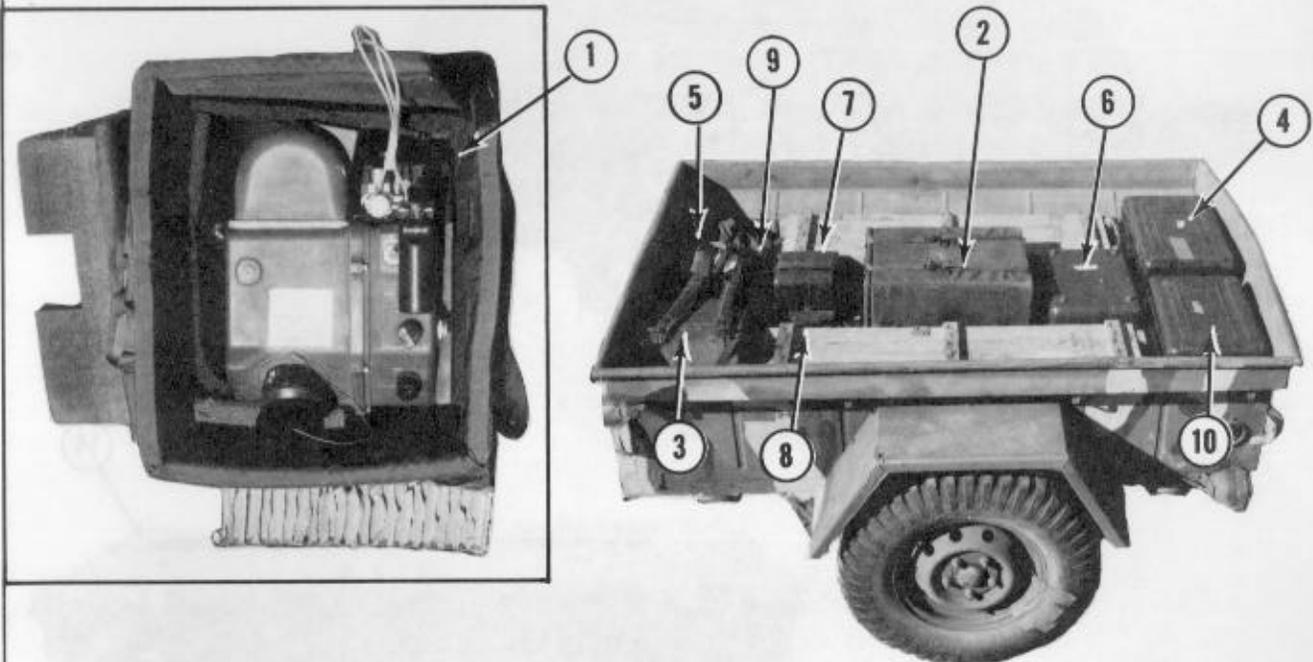




- ① Fold the intervehicular cable and tie the cable and the chains to the drawbar with type III nylon cord. Pad the drawbar with cellulose wadding, and tape it in place.
- ② Place one layer of honeycomb on the floor of the trailer.
- ③ Center one box of ammunition in each side of the trailer.
- ④ Brace each end of the ammunition boxes with lengths of 2- by 4-inch blocks of wood, cut to fit.
- ⑤ Place two 2- by 4-inch blocks of wood, cut to fit, between the ammunition boxes.

Figure 4-1. Preparing the trailer and stowing accompanying load in the trailer.

Note: Push a 6- by 6-inch piece of honeycomb down on the tripod control handle (not shown).

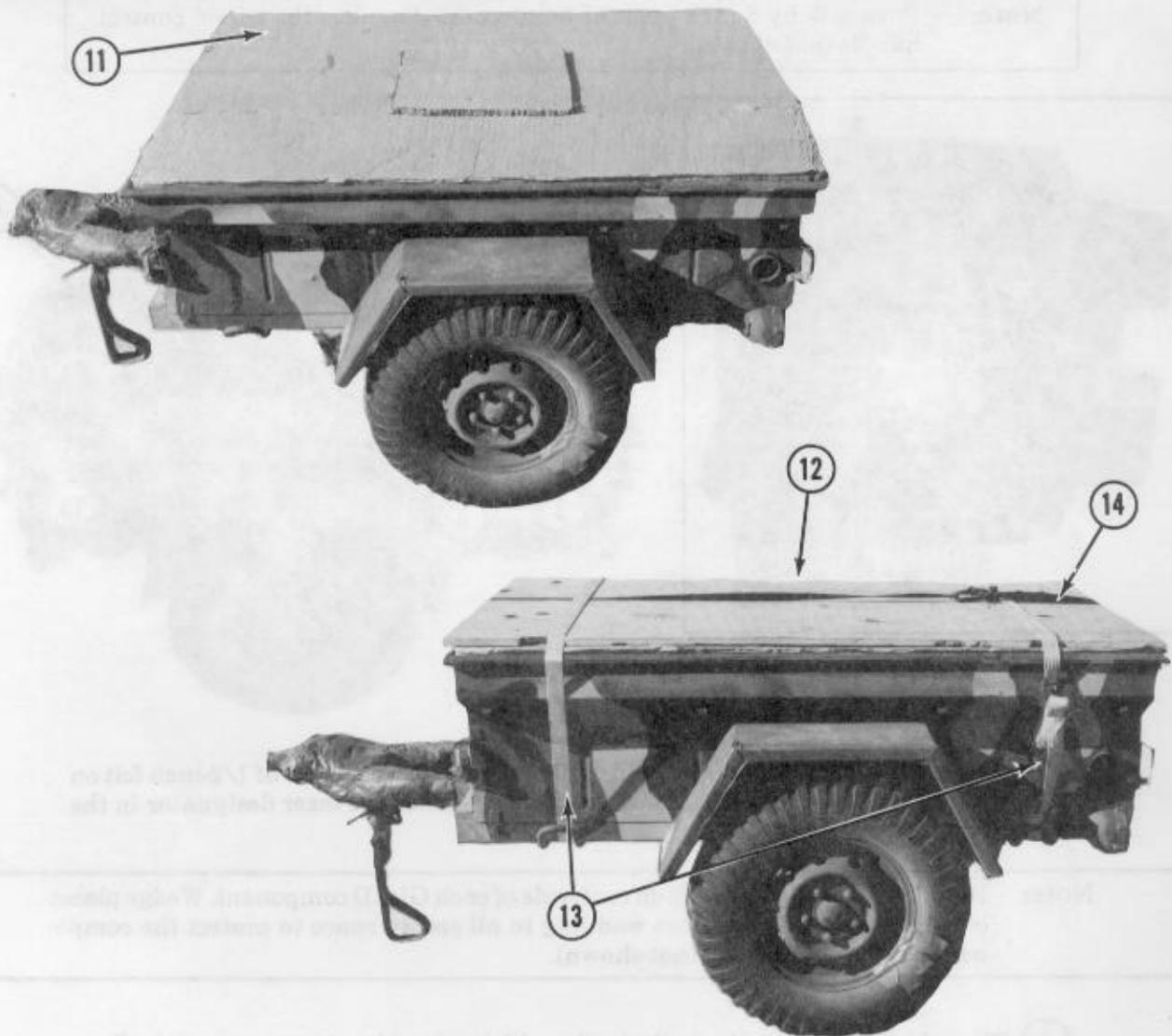


- ① Remove the laser designator from the backpack. Place a layer of 1/2-inch felt on the bottom and four sides of the backpack. Replace the laser designator in the backpack.

Note: Place 1/2-inch pieces of felt on each side of each GLLD component. Wedge pieces of honeycomb and cellulose wadding in all empty space to protect the components and level the load (not shown).

- ② Place the laser designator in the trailer with its shoulder straps against the floor. Place the following in the trailer also.
- ③ Place the tripod in the trailer.
- ④ Place the night vision sight in the trailer.
- ⑤ Place the batteries in the trailer.
- ⑥ Place the traversing unit 02 batteries in the trailer.
- ⑦ Place the vehicle power conditioner in the trailer.
- ⑧ Place the night vision sight battery in the trailer.
- ⑨ Place the cables in the trailer.
- ⑩ Place the collimator in the trailer.

Figure 4-2. Stowing the accompanying load in the trailer.



- 11 Place one layer of honeycomb on top of the GLLD components.
- 12 Place a 3/4- by 48- by 74-inch piece of plywood on top of the honeycomb.
- 13 Run two 15-foot tiedown straps around the trailer, and bind the ends on the side of the trailer.
- 14 Tie a length of 1-inch tubular nylon to the front center paulin hook, pass it over the plywood, and tie it to the rear center paulin hook.

Figure 4-3. Trailer prepared.

4-6. Positioning Trailer

Position the trailer on the honeycomb stacks with the rear of trailer 13 inches from the front edge of platform. Raise and lock the support leg. Tie it in place with type II nylon cord.

4-7. Rigging Trailer

a. Lash the trailer to the platform as shown in figure 2-8.

b. Finish rigging the trailer the same as shown in paragraphs 2-8 through 2-14.

4-8. Marking Rigged Load

Mark the rigged load according to FM 10-500/TO 13C7-1-5, using the following data:

| | |
|---|--------------|
| Weight | 3,475 pounds |
| Height | 91 inches |
| Width | 108 inches |
| Length | 123 inches |
| Overhang: Rear | 27 inches |
| Center of Balance (from front edge of platform) | 52 inches |
| Extraction System | .PEFTC |

4-9. Equipment Required

The equipment listed in tables 2-1 and 4-1 are used to rig this load.

Table 4-1. Equipment required for rigging the trailer with ground laser locator designator.

| National Stock No. | Item | Quantity |
|--------------------|--|------------------------|
| 5510-00-197-2980 | Lumber, 2- by 4-inches | 1 |
| 1670-00-753-3928 | Pad, energy-dissipating honeycomb, 3- by 36- by 96-in 11- by 11-in | 3 sheets (8) |
| 5330-00-128-4981 | Plywood, 3/4- by 48- by 96-in 12- by 12-in 48- by 74-in | 2 sheets (4) (1) |
| 1670-00-937-0271 | Tiedown Assembly, 10,000-lb | 2 |
| 1670-00-937-0272 | Binder, Load | 2 |
| 5365-00-937-0147 | D-ring, 10,000-lb | 2 |
| 1670-00-937-0273 | Strap, 15-ft | 2 |