

CHAPTER 2

RIGGING 1 1/4-TON HMMWV SOFT-TOP TRUCKS FOR LOW-VELOCITY AIRDROP

DESCRIPTION OF LOAD

2-1. The unrigged M998 cargo/troop carrier (Figure 2-1) is described in Chapter 1. The HMMWV truck is rigged on a 16-foot type V platform for low-velocity airdrop. An accompanying load weighing a minimum of 800 pounds and a maximum of 2,000 pounds (2,500 pounds for the M1037 modified HMMWV, M1042, M1097, M1097A1, and M1097A2) must be rigged in the truck. The load requires two G-11 cargo parachutes. The following trucks can be rigged using the procedures given in this chapter:

M998A1

M1038 and M1038A1

M1037 and M1037 modified

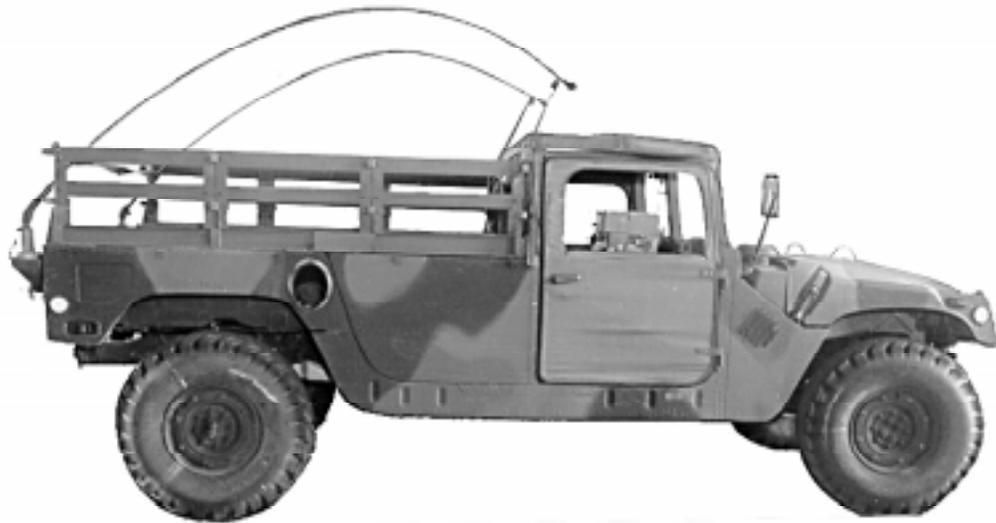
M1042

M1097, M1097A1, and M1097A2

PREPARING PLATFORM

2-2. Prepare a 16-foot, type V airdrop platform according to TM 10-1670-268-20&P/TO 13C7-52-22. Install four tandem links as shown in Figure 2-2. Attach and number 18 clevis assemblies as shown in Figure 2-2.

NOTES: 1. The nose bumper may or may not be installed.
2. Measurements given in this chapter are from the front edge of the platform, NOT from the front edge of the nose bumper.



TWO-DOOR CONFIGURATION



FOUR-DOOR CONFIGURATION

Figure 2-1. M998 Cargo/Troop Carrier

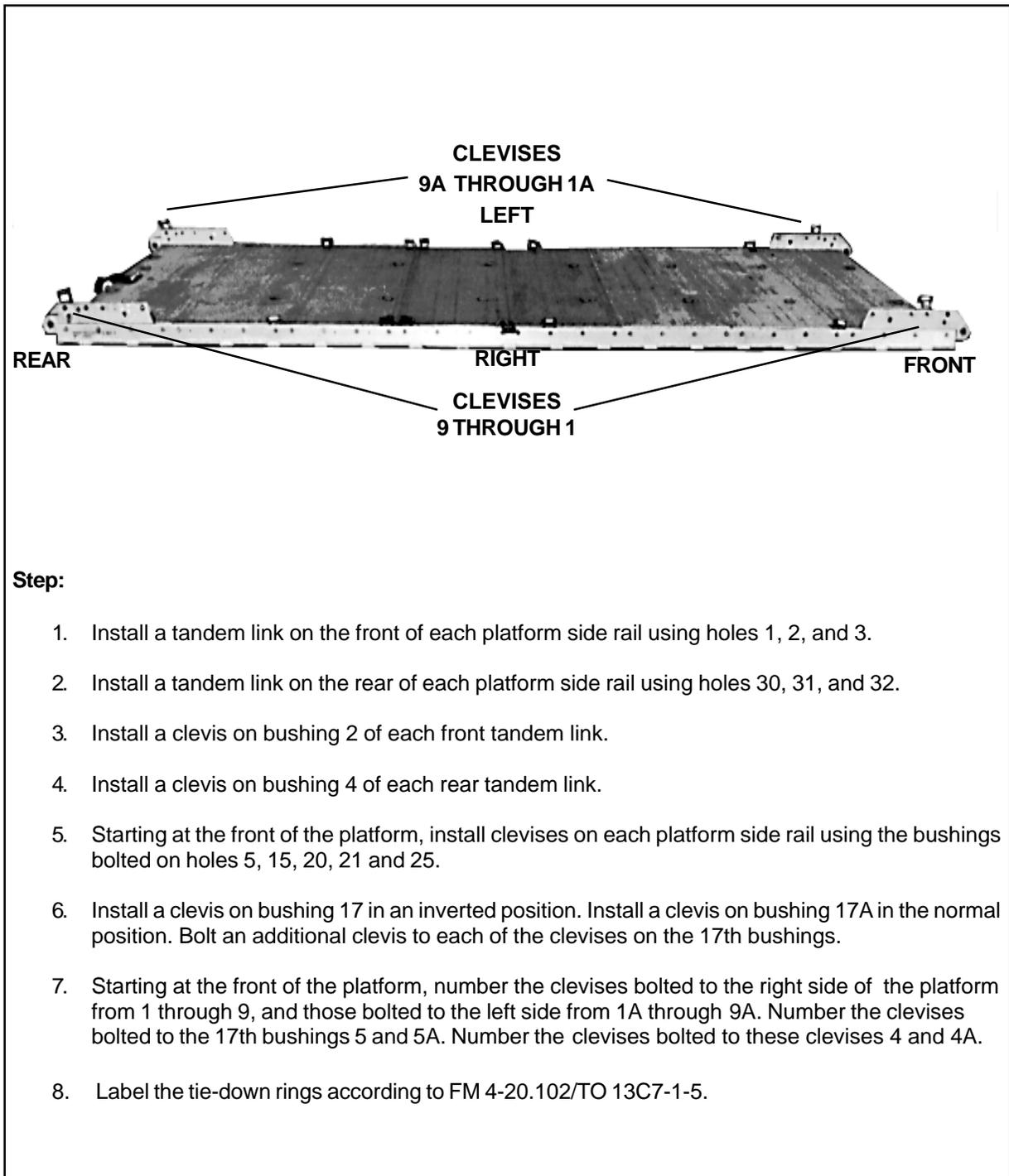
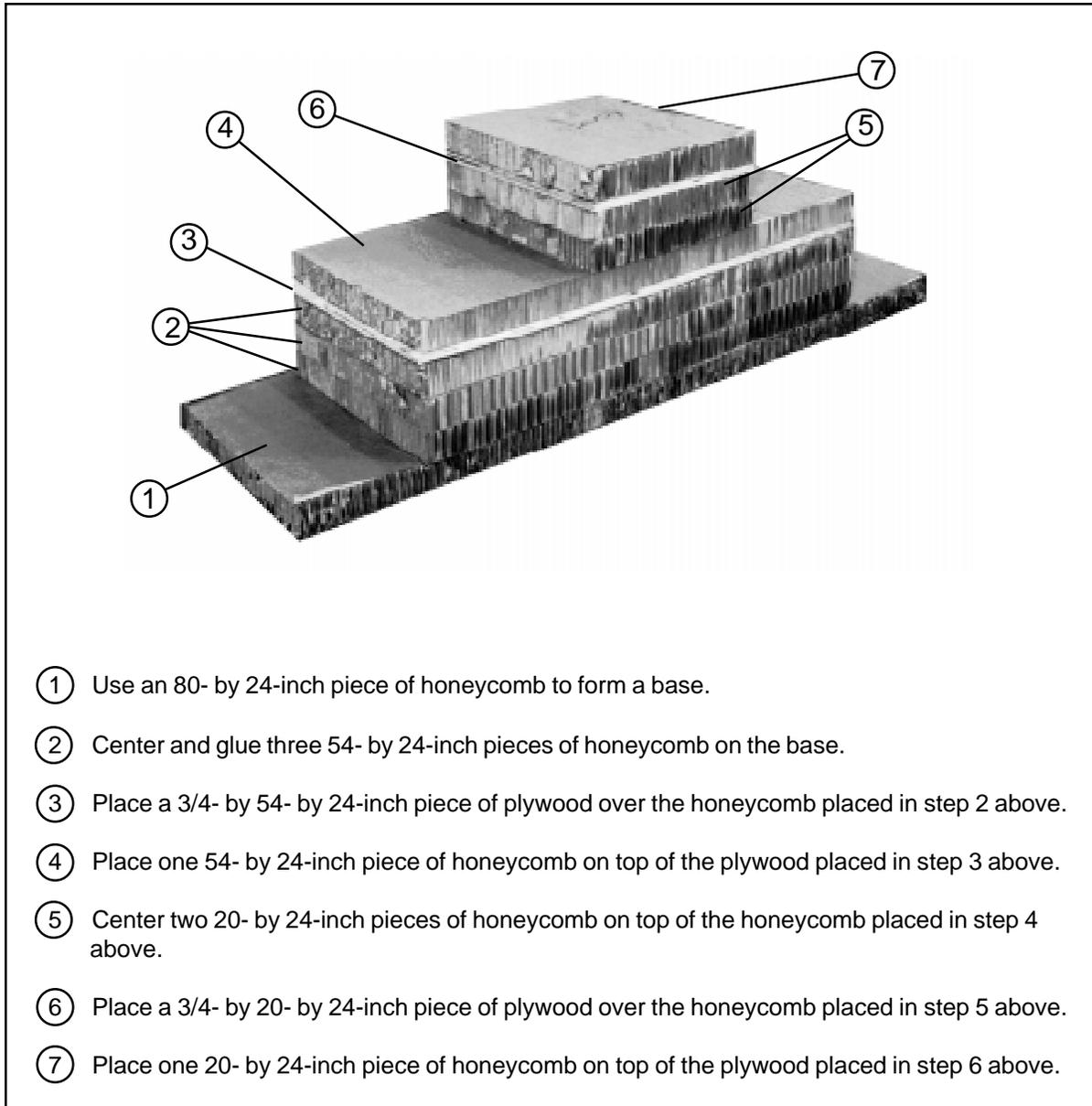


Figure 2-2. Platform Prepared

PREPARING AND POSITIONING HONEYCOMB STACKS

2.3. Prepare three honeycomb stacks as shown in Figures 2-3 and 2-4. Position the stacks on the platform as shown in Figure 2-5.



- ① Use an 80- by 24-inch piece of honeycomb to form a base.
- ② Center and glue three 54- by 24-inch pieces of honeycomb on the base.
- ③ Place a 3/4- by 54- by 24-inch piece of plywood over the honeycomb placed in step 2 above.
- ④ Place one 54- by 24-inch piece of honeycomb on top of the plywood placed in step 3 above.
- ⑤ Center two 20- by 24-inch pieces of honeycomb on top of the honeycomb placed in step 4 above.
- ⑥ Place a 3/4- by 20- by 24-inch piece of plywood over the honeycomb placed in step 5 above.
- ⑦ Place one 20- by 24-inch piece of honeycomb on top of the plywood placed in step 6 above.

Figure 2-3. Stacks 1 and 3 Prepared

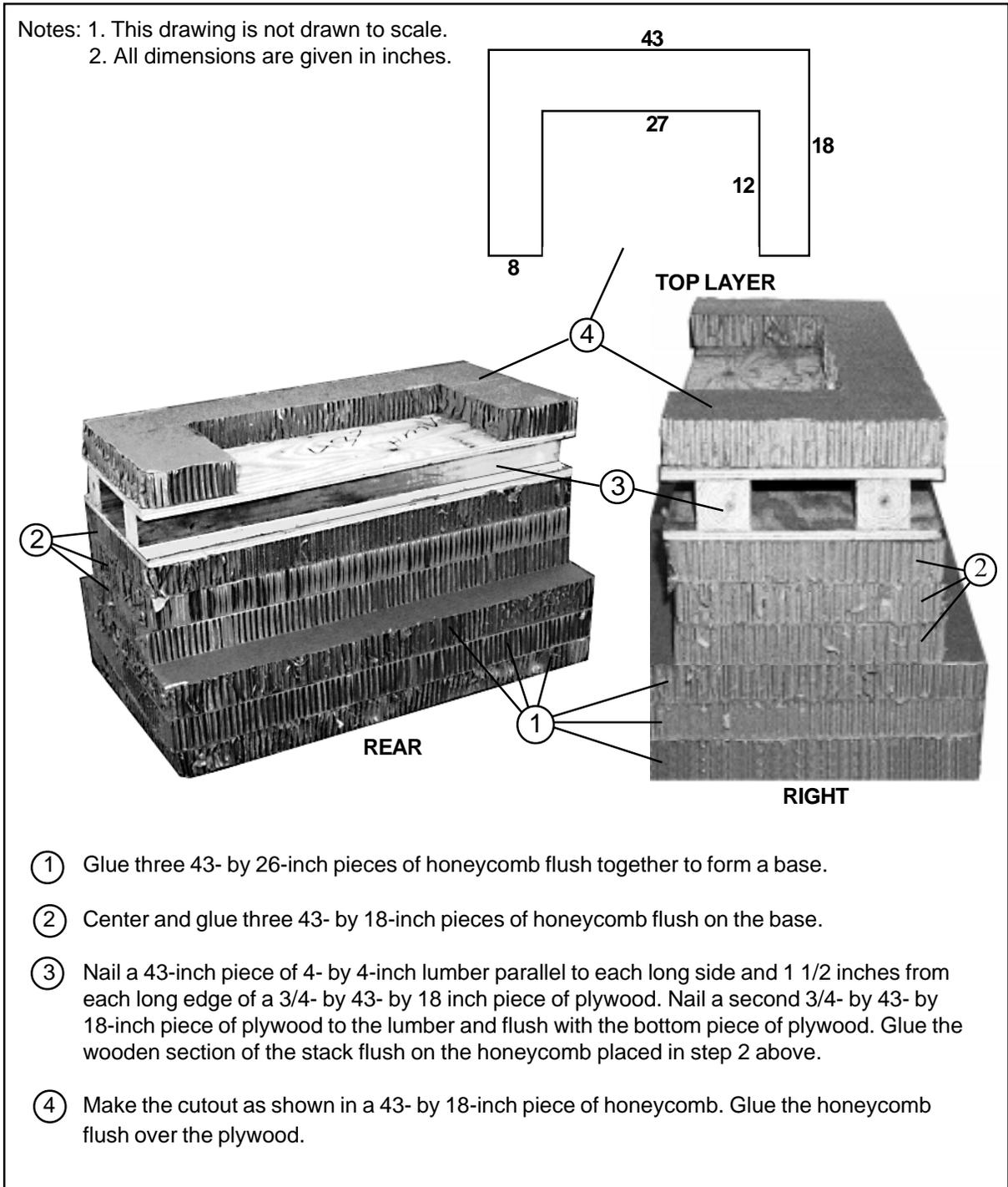


Figure 2-4. Stack 2 Prepared

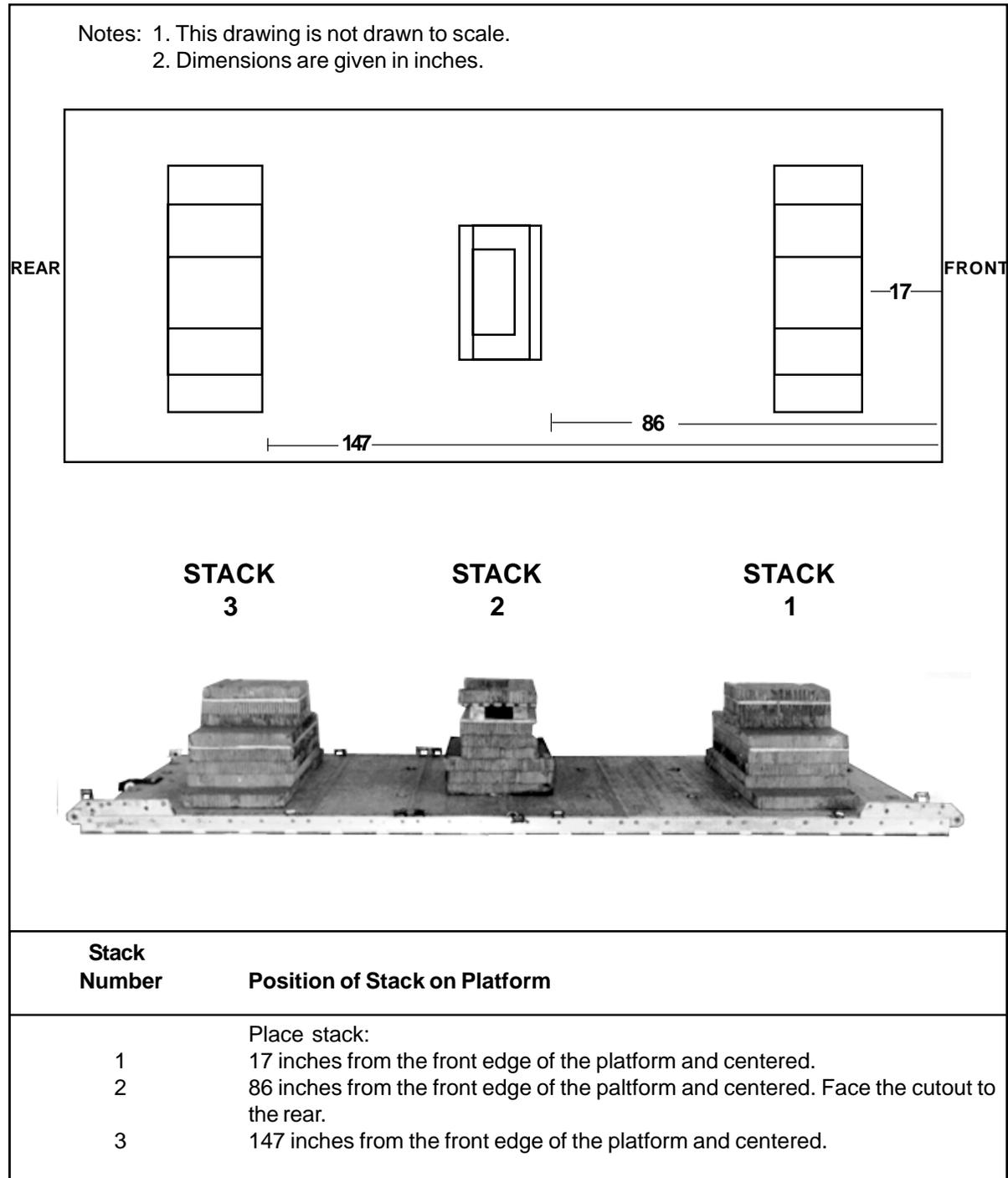


Figure 2-5. Honeycomb Stacks Positioned on Platform

PREPARING TRUCK

2-4. Prepare the truck as described below.

a. Make sure the fuel tank is no more than 3/4 full. Prepare the fuel tank filler cap and fuel filler opening as shown in Figure 2-6. Prepare the fuel tank drain plug as shown in Figure 2-7.

Note: Certain units may be authorized a waiver allowing 95% fuel. One way to verify the tank is 95% full is to fill the tank and withdraw 1 1/4 gallons with a hand pump.

CAUTION

A full tank does not allow for fuel expansion, and is a danger to aircraft and crew.

b. Make sure the batteries and battery compartment comply with AFJMAN 24-204/TM 38-250.

c. Stow the truck OVE according to TM 9-2320-280-10/TO 36A12-1A-2091-1/TM 2320-10/6.

d. Prepare the cab of the truck as shown in Figure 2-8.

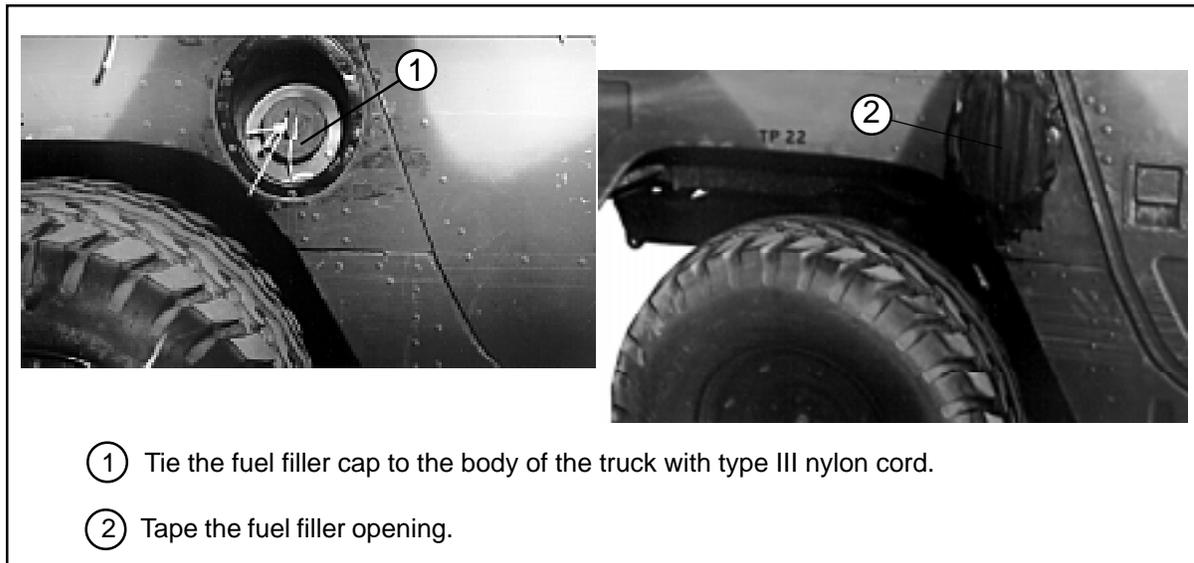
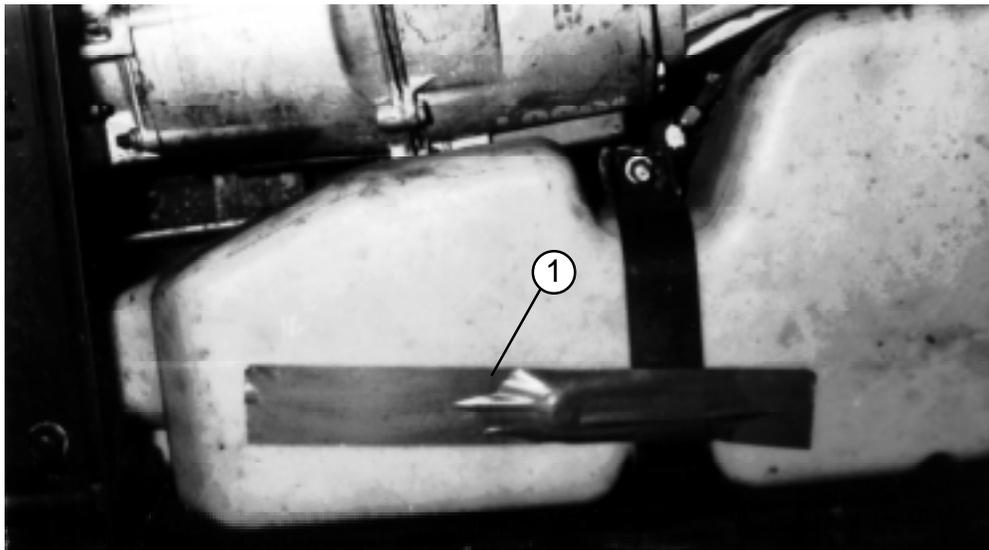
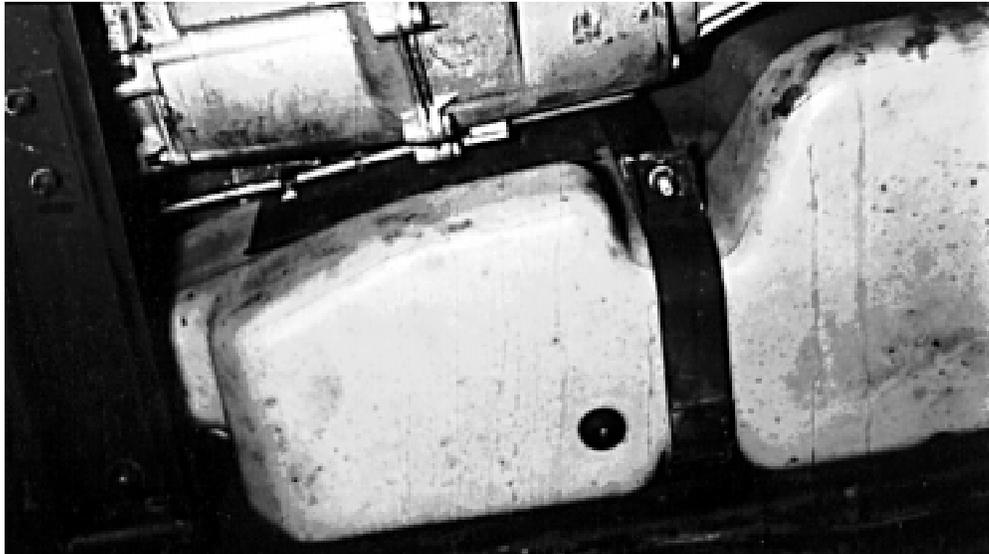
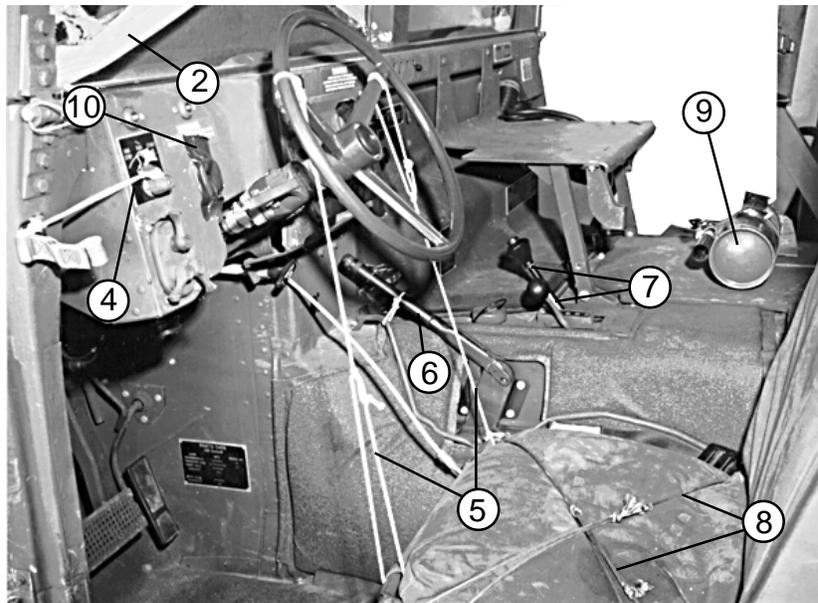


Figure 2-6. Fuel Tank Filler Cap and Opening Prepared



- ① Place a 12-inch length of cloth-backed tape over the fuel tank drain plug.

Figure 2-7. Fuel Tank Drain Plug Prepared



- ① Remove all doors, covers, and supporting bows.
- ② Tape the windshield glass on both sides in an X.
- ③ Remove and pad the mirrors. Secure them under the driver's seat with type III nylon cord.
- ④ Tie the engine start switch in the engine stop position with type I, 1/4-inch cotton webbing.
- ⑤ Tie the steering wheel to the seat frame in two places with type III nylon cord, or use the retractable steering wheel locking cable. If the locking cable is used, secure it to the steering wheel with type III nylon cord, not a padlock.
- ⑥ Tie the emergency brake handle in the off position with type III nylon cord.
- ⑦ Place the transmission and four-wheel drive levers in the neutral position.
- ⑧ Tie the seat cushions to the seat frames with type III nylon cord. Fold the passenger seats in four-door trucks and secure them with the pins provided.
- ⑨ Tie the fire extinguisher in place with two lengths of type III nylon cord.
- ⑩ Tape all instrument panel gauges.

Figure 2-8. Cab Prepared

e. Secure and pad radio equipment in the cab section as shown in Figure 2-9.

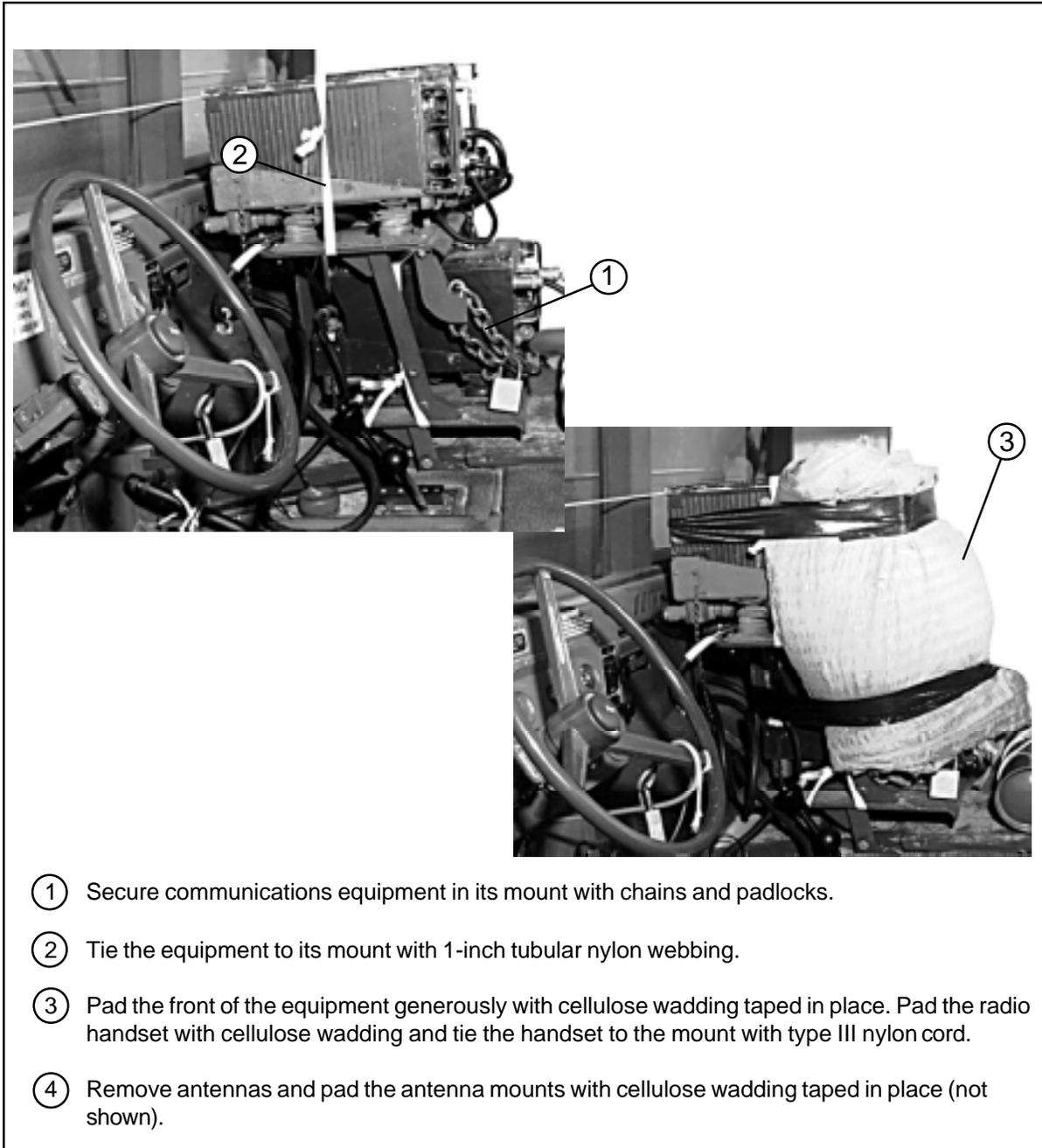


Figure 2-9. Communications Equipment Secured and Padded

f. Prepare the front of soft-top trucks with foldable windshields as shown in Figure 2-10.

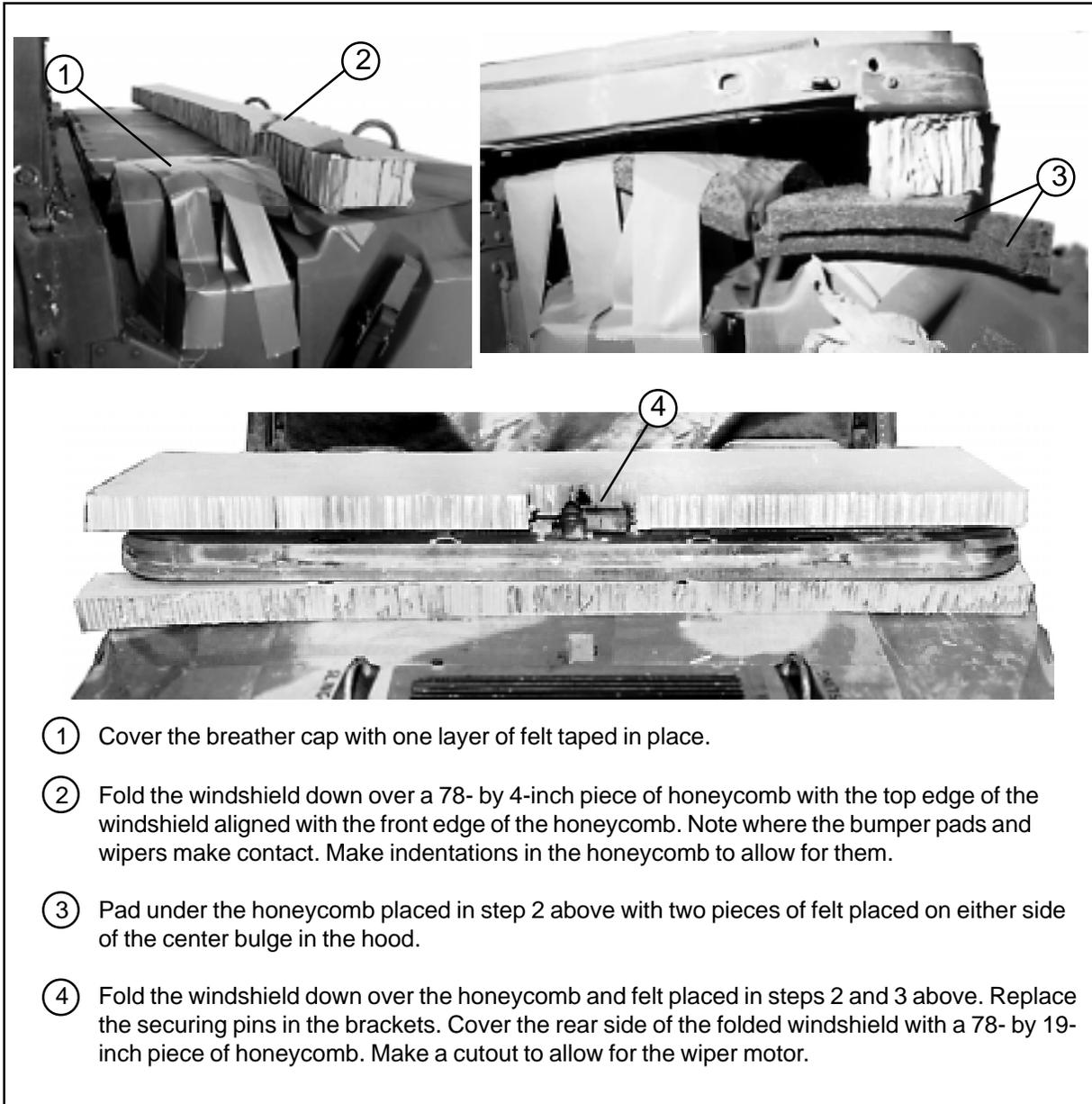
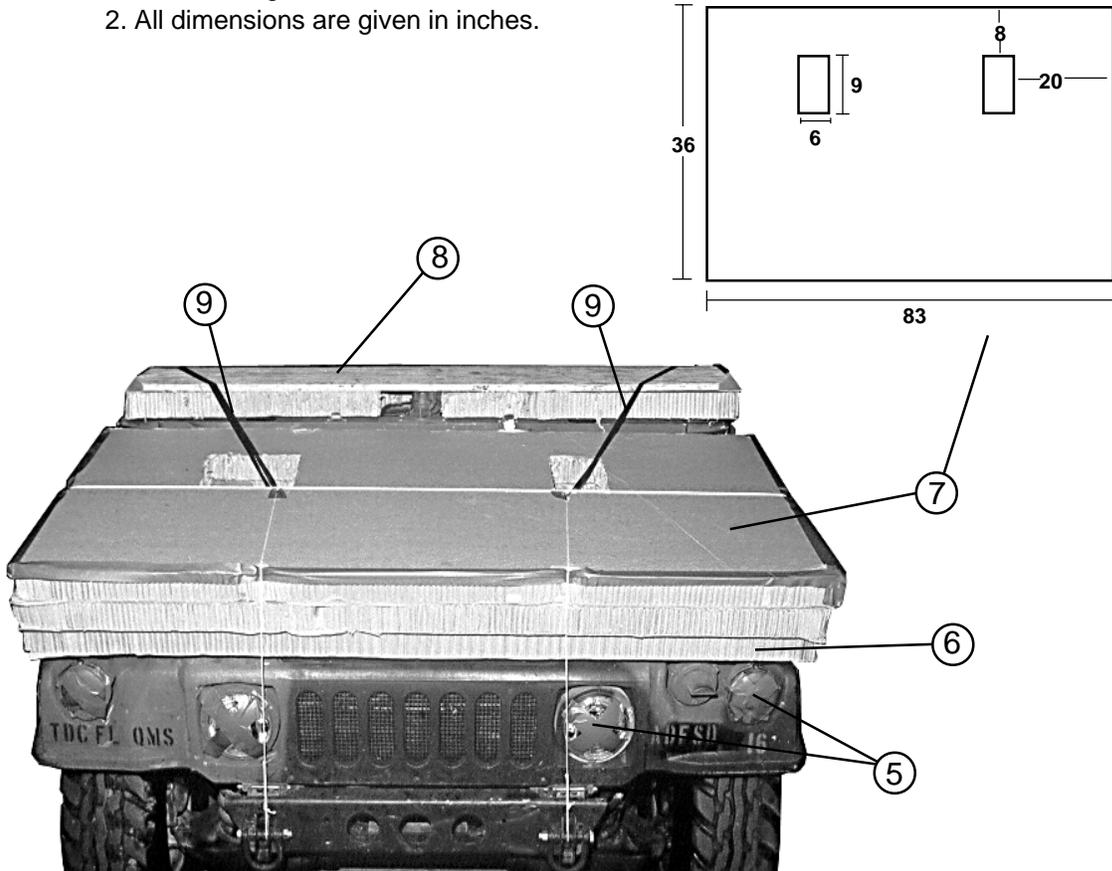


Figure 2-10. Front of Truck Prepared

Notes: 1. This drawing is not drawn to scale.
 2. All dimensions are given in inches.



- ⑤ Tape all lights and reflectors. Tape the hood latches.
- ⑥ Center a 78- by 4-inch piece of honeycomb along the front edge of the hood.
- ⑦ Place two 83- by 36-inch pieces of honeycomb, with cutouts as shown, on the hood. Tie one length of type III nylon cord over the honeycomb to the front coil springs on each side. Tie two lengths of type III nylon cord from the airlift bracket to the front tie-down bracket on each side. Tape the honeycomb where the cord passes over the edges.
- ⑧ Place a 3/4- by 78- by 19-inch piece of plywood over the honeycomb placed in step 4. Round the front corners, and drill a 1/2-inch hole 6 inches from the bottom and 1 inch from each end.
- ⑨ Secure the plywood with two lengths of 1/2-inch tubular nylon webbing tied from the airlift bracket to the windshield securing pin on each side.

Figure 2-10. Front of Truck Prepared (continued)