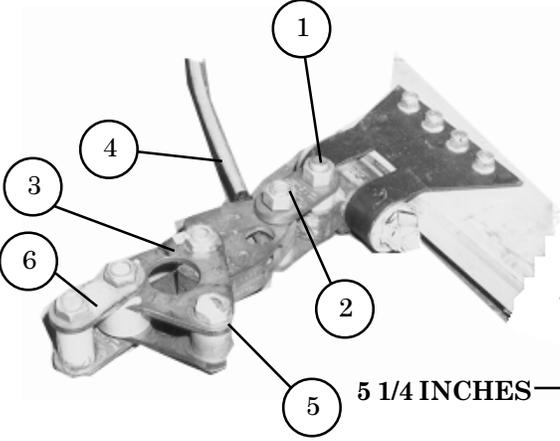
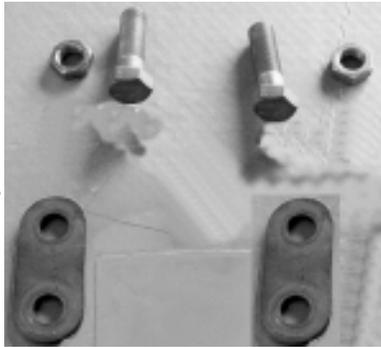


CAUTION

Tie the slack in the cable in a smooth S-shape bend. This should be tied to the side of the load or to a lashing on the type V platform. This will avoid binding problems in the cable.

- 1 Bolt one end of a 5 1/4-inch, latch connector assembly (measured from end to end) to the platform extraction bracket.
- 2 Bolt the latch assembly to the latch connector assembly.

CAUTION

The modified extraction lugs are identified by the presence of a 1/2-inch steel strip welded or machined on the lower front flat surface of the extraction lug.

Note: This raises the latch assembly to prevent damage to the aircraft.

- 3 Follow steps 3 and 4, Figure 3-46, and steps 1 through 5, Figure 3-47, to attach the coupling link assembly to the latch assembly.
- 4 Follow steps 1, 2, and 3, Figure 3-48, to attach the cable assembly to the latch assembly.
- 5 Bolt one end of the deployment line to the right spacer of the coupling link assembly.
- 6 When a 6-loop extraction line is used, the adapter link assembly **MUST** be used to separate the loops of the line.

Figure 3-52. Latch Assembly Bolted to Type V Platform Extraction Bracket

Section VI

Release Assemblies

M-1 CARGO PARACHUTE RELEASE

3-23. Test, attach, and safety the M-1 cargo parachute release as follows:

CAUTION
DO NOT use the M-1 cargo parachute release with four G-11B cargo parachutes. The M-2 cargo parachute release MUST be used.

a. Testing Timer. Before each use, seat, arm, and test the delay timer as shown in Figures 3-53 through 3-55.

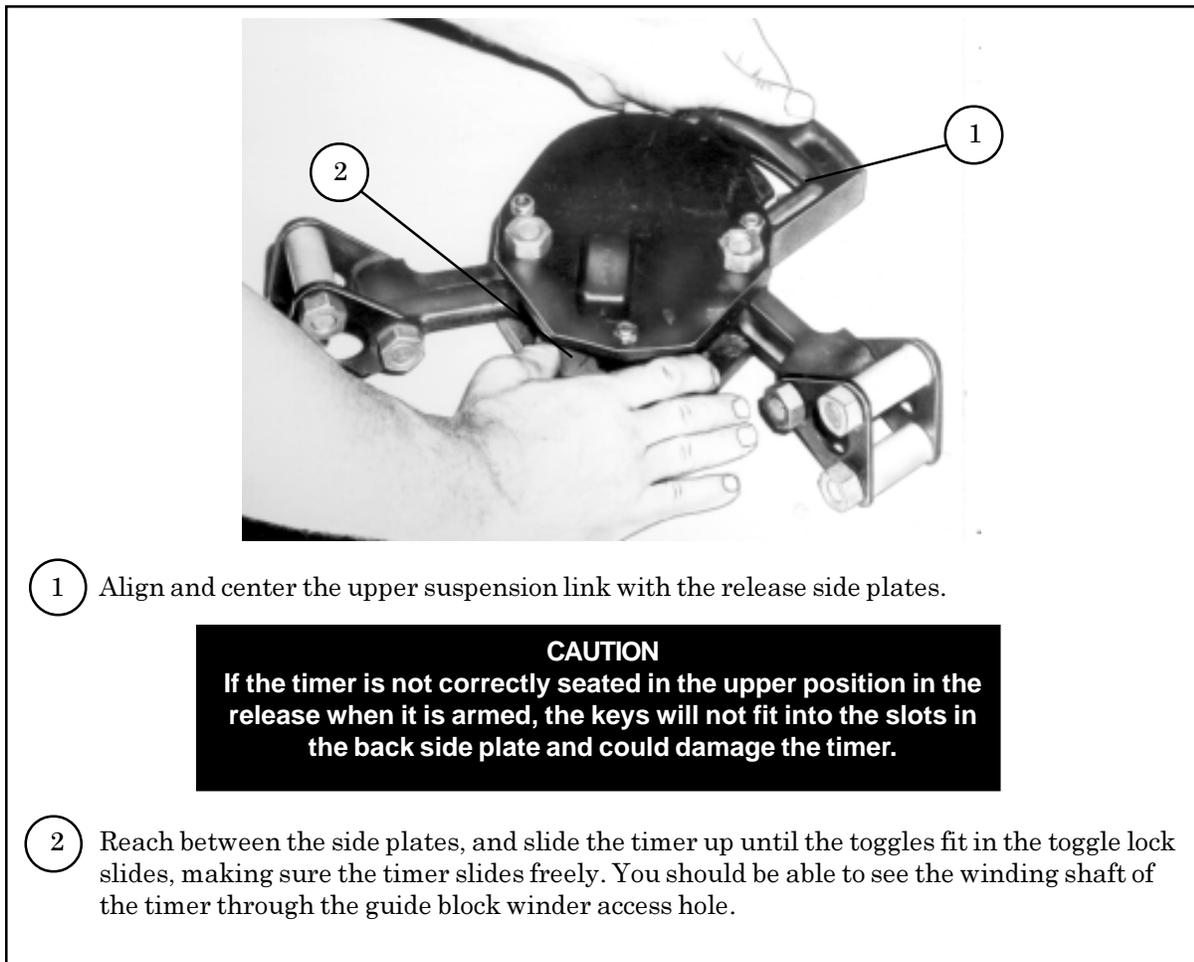
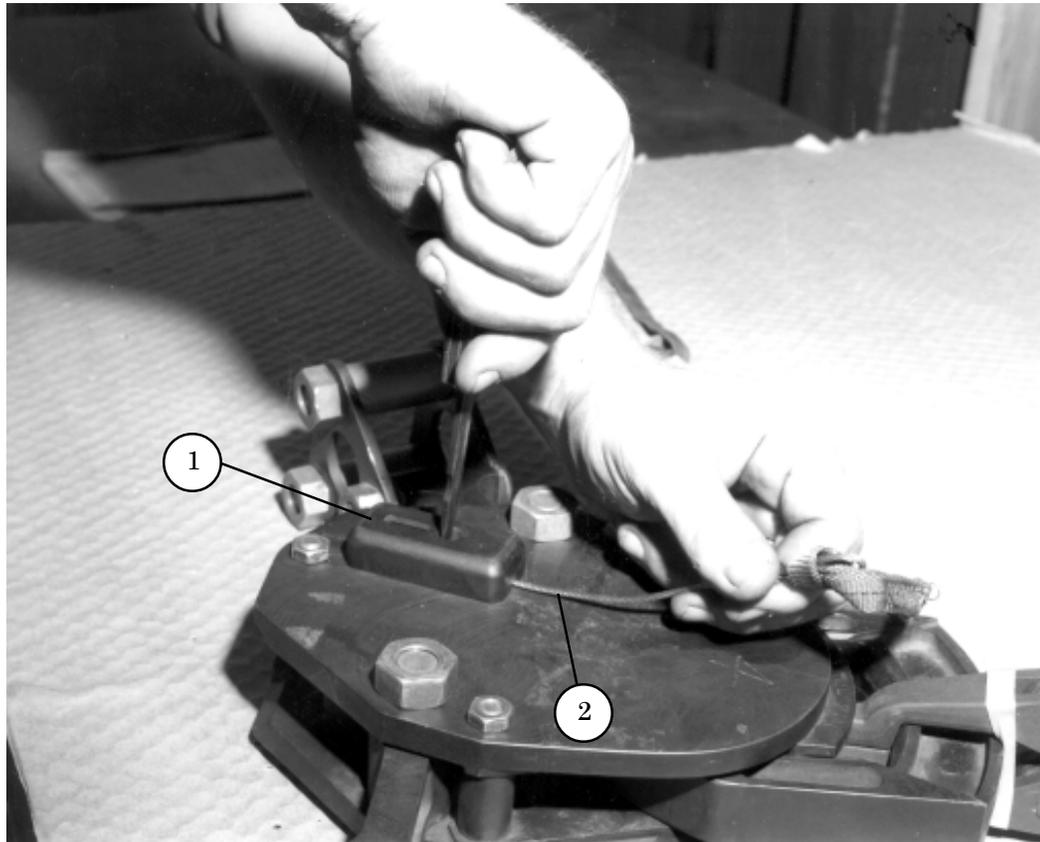


Figure 3-53. Delay Release Timer Seated



- 1 Put the tip of a flat-tip screwdriver through the guide block winder access hole and into the slot in the timer winding shaft. Gently turn the shaft one-quarter turn to the right and stop, holding the shaft with the screwdriver.

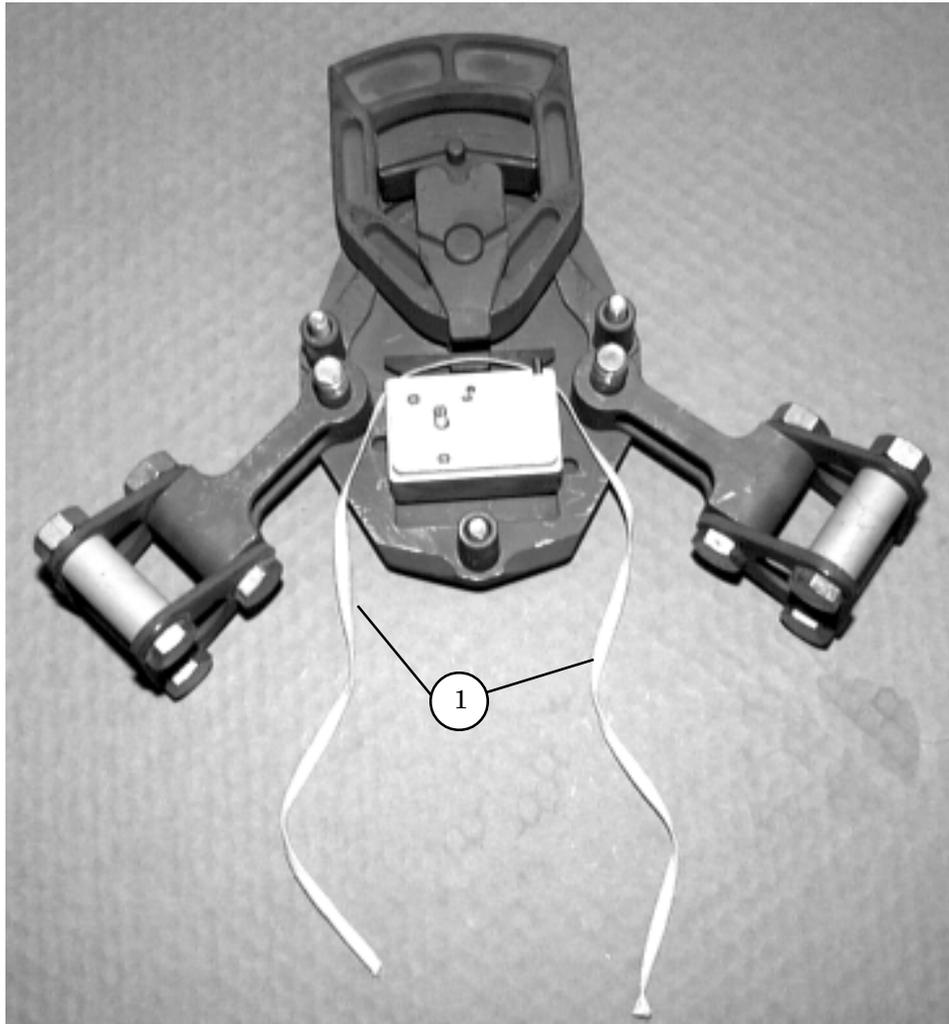
Note: If the winding shaft is hard to turn, hold the shaft with the screwdriver and move the timer around until the keys align with the slots in the back plate.

- 2 Hold the shaft, and push the arming wire down through the hole in the guide block and the hole in the winding shaft.

Note: When the timer is correctly armed, about 1/2 inch of the arming wire can be seen through the slot below the guide block winder access hole.

Figure 3-54. Timer Armed

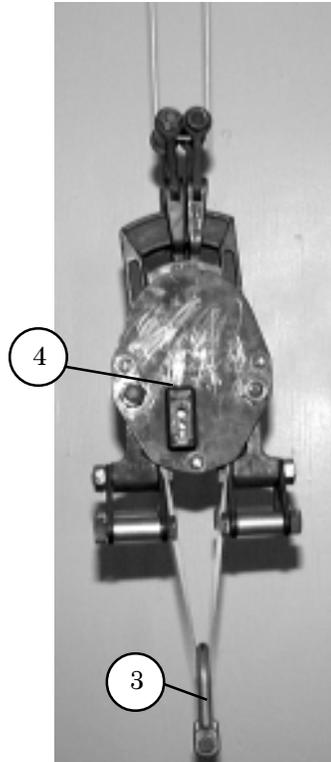
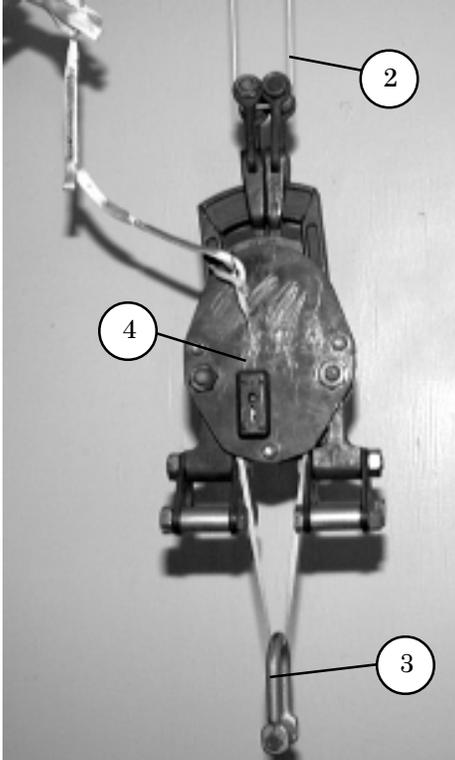
Note: A delay release timer will be tested before each use.



- 1 Pass a length of type I, 1/4-inch cotton webbing up between the release side plates, over and around the center of the timer, and back down between the side plates. The side plate and a toggle lock slide have been removed to show how the webbing passes around the timer. You may use a length of wire to help you pass the webbing around the timer.

Figure 3-55. Testing Timer

CAUTION
 Do not over tighten the face side plate. Make sure the bolts are tightened in an alternating sequence.



- 2 Hang the release in a straight, level position.
- 3 Tie a 10-ounce weight, such as a platform clevis with bolt or a parachute release connector, without the nut and bolt, to the type I, 1/4-inch cotton webbing.
- 4 Pull the arming wire from the timer. Count the seconds from the time the wire is pulled until the timer falls within the release.

Note: If the timer fails to fall after the allotted time (12 to 16 seconds), remove the side plate and check the four screws holding the arming wire guide block to the side plate for burrs. If the screw heads are burred, remove the burrs by filing or replace the screws. Retest the timer. If there is a second failure, remove and replace the timer.

Figure 3-55. Testing Timer (Continued)

b. Preparing, Attaching, and Safety Tying Release. Prepare, attach, and safety the M-1 cargo parachute release as shown in Figures 3-56 through 3-58.

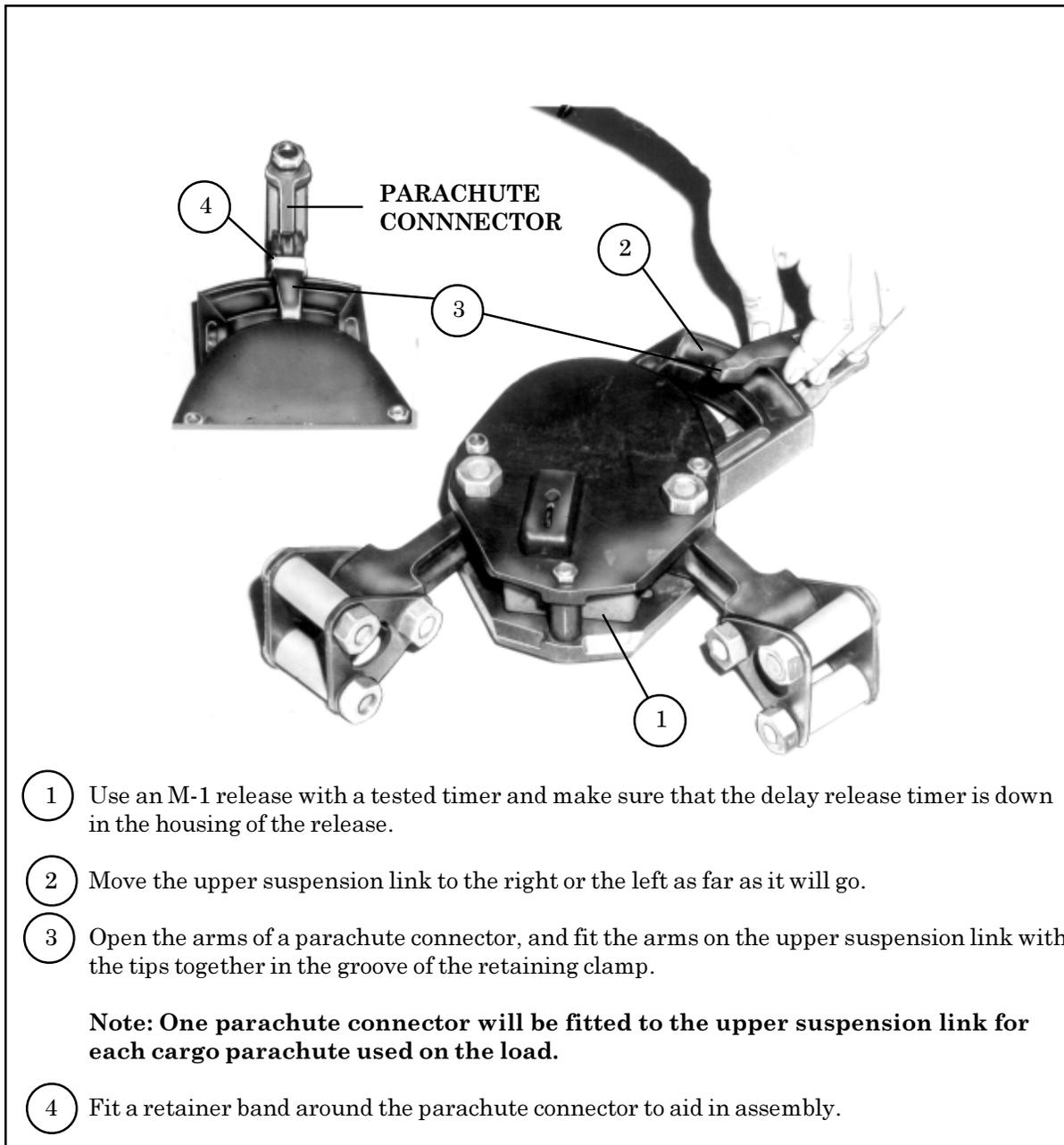
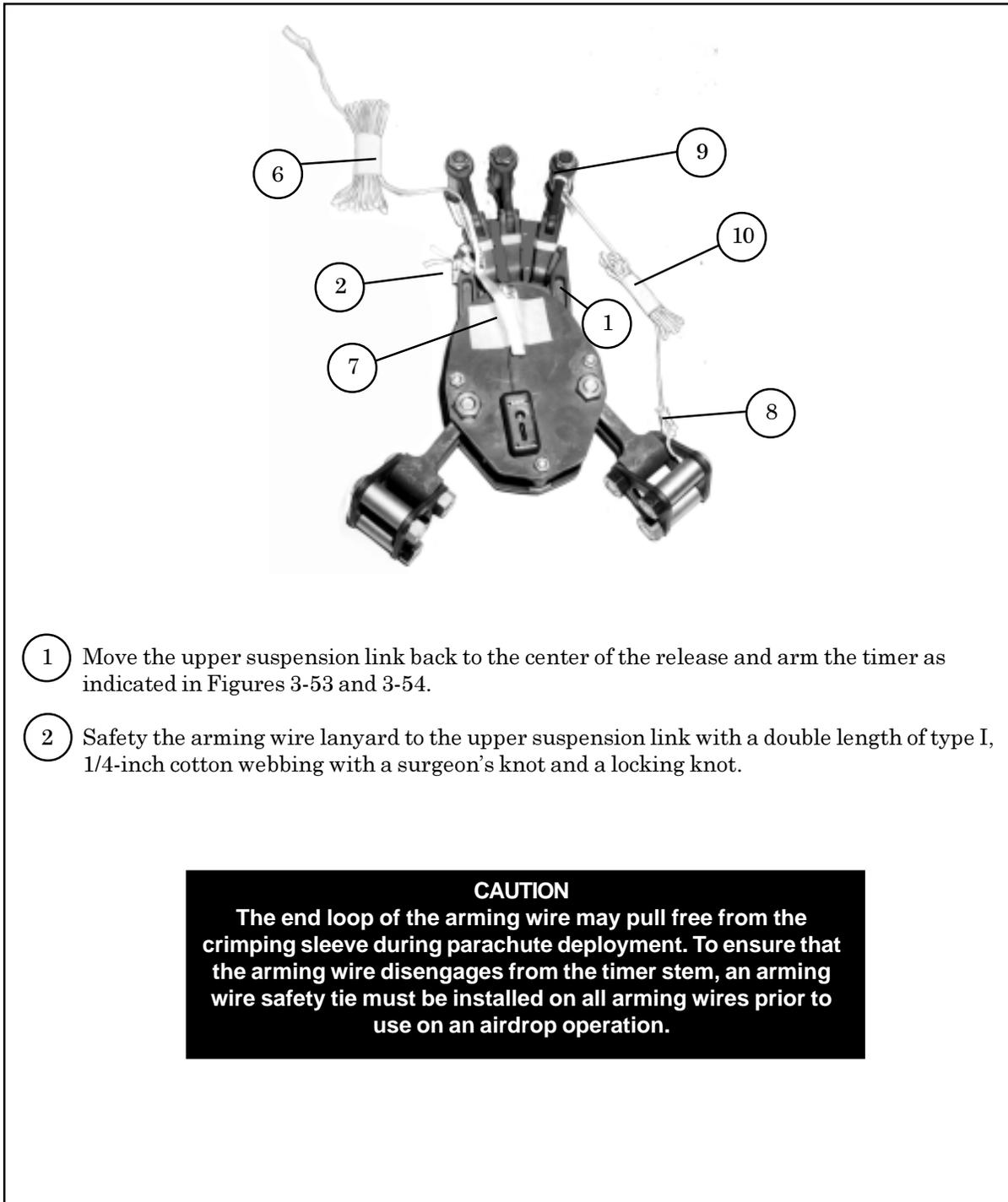


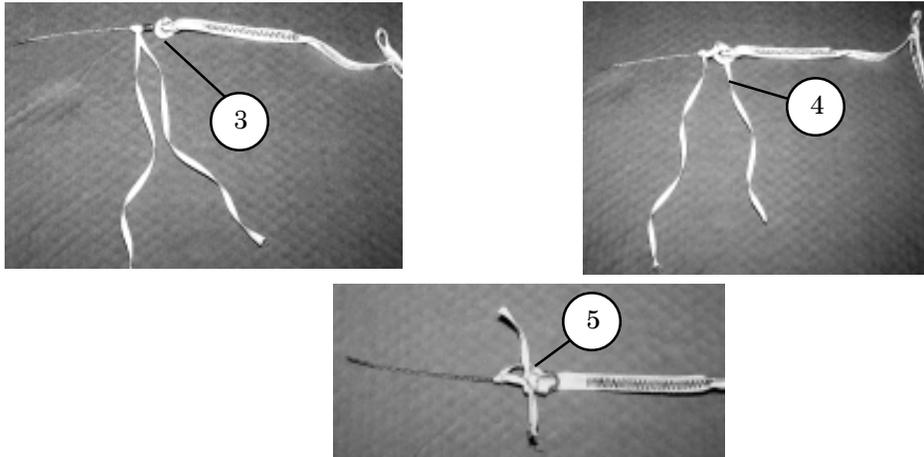
Figure 3-56. Parachute Connector Fitted to Upper Suspension Link of M-1 Release



- 1 Move the upper suspension link back to the center of the release and arm the timer as indicated in Figures 3-53 and 3-54.
- 2 Safety the arming wire lanyard to the upper suspension link with a double length of type I, 1/4-inch cotton webbing with a surgeon's knot and a locking knot.

CAUTION
 The end loop of the arming wire may pull free from the crimping sleeve during parachute deployment. To ensure that the arming wire disengages from the timer stem, an arming wire safety tie must be installed on all arming wires prior to use on an airdrop operation.

Figure 3-57. M-1 Release Prepared



Note: With the arming wire lanyard attached to the arming wire loop, the arming wire loop shall be designated as the top. Install the safety tie as follows:

This safety tie should be inspected at the joint airdrop load inspection, before and after loading.

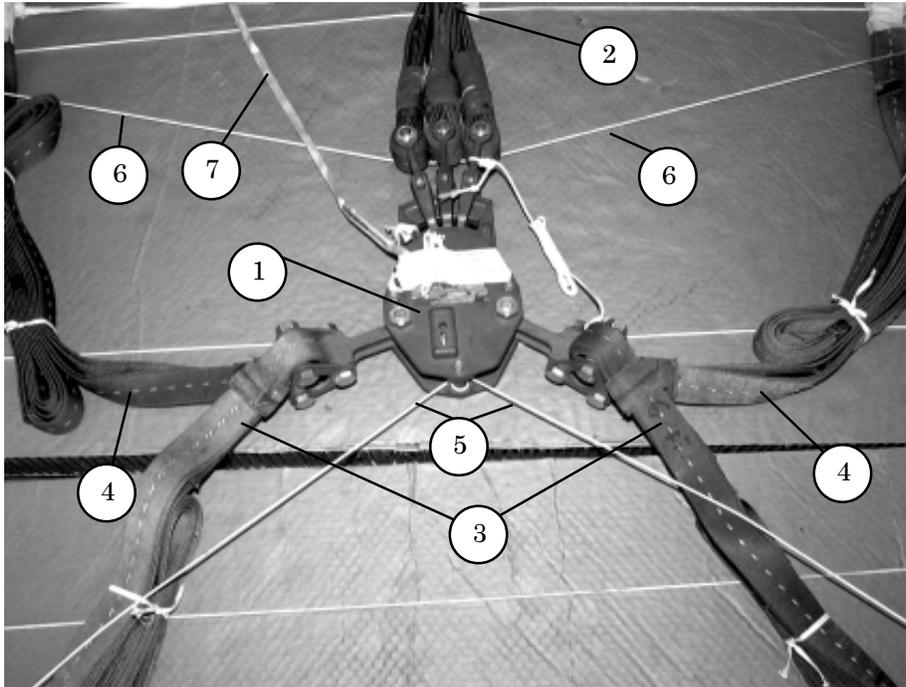
- 3 Girth hitch a 12-inch length of 1/4-inch cotton webbing on the safety wire just below the metal fastener.
- 4 Route one running end of the 1/4-inch cotton webbing through the looped ends of the arming wire and lanyard.
- 5 After ensuring there is 1/2-inch to 1-inch of slack in both running ends, tie a surgeon's knot and locking knot in the 1/4-inch cotton webbing.
- 6 Fold the slack in the lanyard, and tape the folds in place with one turn of masking tape.
- 7 Fold the slack in the lanyard, between the safety tie and the arming wire, and tape the fold to the face side plate with one piece of masking tape.

Note: Include the following data on the masking tape: name, date, and timer seconds.

- 8 Tie one end of a 5-foot length of type III nylon cord (dragline) to one side of the lower suspension link.
- 9 Tie the other end of the dragline to a parachute connector.
- 10 Fold the slack in the dragline and tape the folds in place with one turn of masking tape.

Figure 3-57. M-1 Release Prepared (Continued)

CAUTION
 Place the release on the load with the parachute connectors toward the rear of the platform and with the guide block up. Bolt the suspension slings to the lower suspension links so that they will not change position when the load is suspended. Make sure the arming wire lanyard is routed over all items.



- ① Put the release on the load as instructed in the specific rigging manual for the load.

Note: Bolt a 3-foot (2-loop), type XXVI nylon sling to the parachute clevis of one G-11B cargo parachute and to the parachute connector fitted to the release.

- ② Bolt the riser extensions of two G-12E, or two or three G-11B cargo parachutes to the parachute connectors already fitted to the release.
- ③ Attach the front suspension slings to the top bolts of the lower suspension link.
- ④ Attach the rear suspension slings to the lower bolts of the lower suspension link. The rear slings will have a half twist towards the parachutes.
- ⑤ Run a length of type III nylon cord to encircle the lower spacer, and tie the ends of the cord to points on the front of the load or platform.
- ⑥ Run a length of type III nylon cord through the parachute connectors, and tie the ends of the cord to points on the rear of the load or platform.
- ⑦ Tie the lanyard to a carrying handle of a parachute with three alternating half hitches and an overhand knot in the running end.
- ⑧ Fold the slack in the lanyard, and tape the folds in place with one turn of masking tape. (Not shown)

Figure 3-58. M-1 Release Attached and Safetied to Load

M-2 CARGO PARACHUTE RELEASE

3-24. Prepare, attach, and safety the M-2 cargo parachute release as follows:

a. Preparing Release. Test the timer and prepare an M-2 cargo parachute release the same as the M-1 release.

Note: Three to eight connectors may be fitted to an M-2 release. The M-2 release requires a 5-foot dragline made from 1/2-inch tubular nylon webbing.

b. Attaching and Safety Tying Release. Attach and safety the M-2 cargo parachute release to the load as shown in Figure 3-59.

Note: When using the M-2 cargo parachute release on the 28-foot and 32-foot platforms, use a 25-foot arming wire lanyard. Make the lanyard according to TM 10-1670-296-20&P/TO 13C7-49-2.

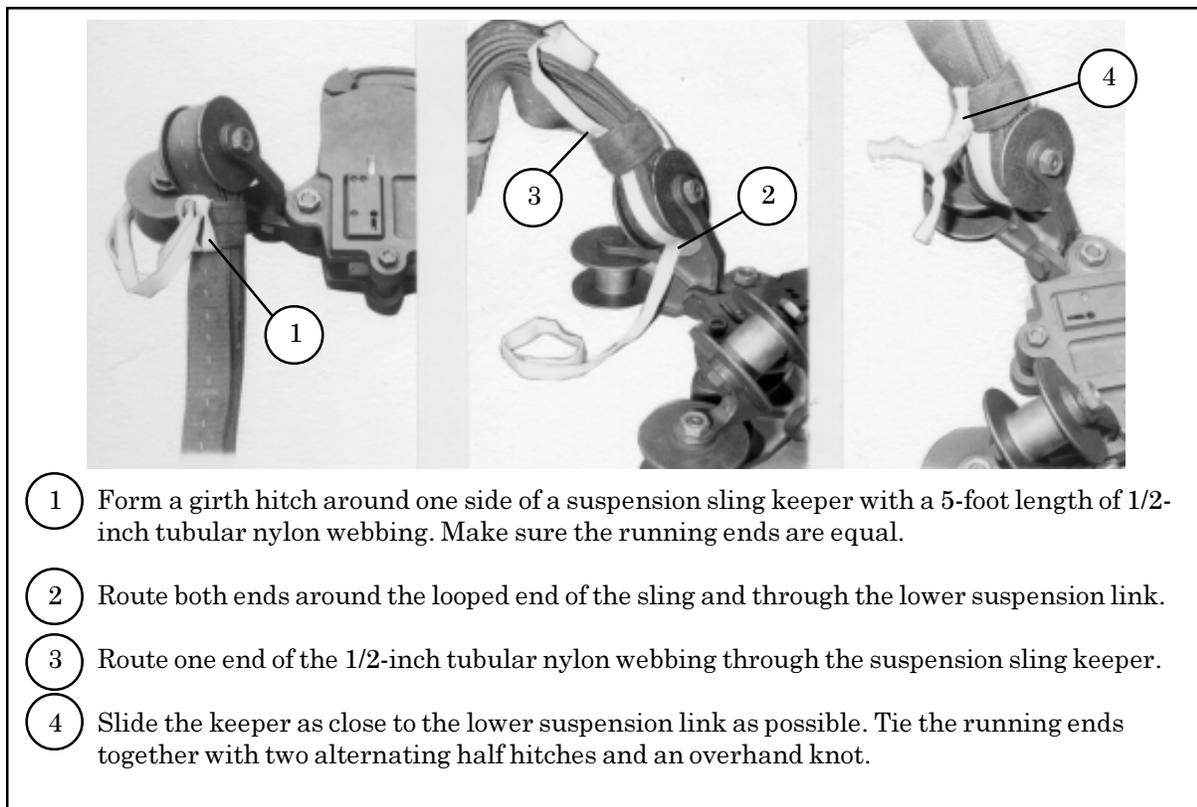


Figure 3-59. M-2 Release Prepared, Attached, and Safett Tied to Load

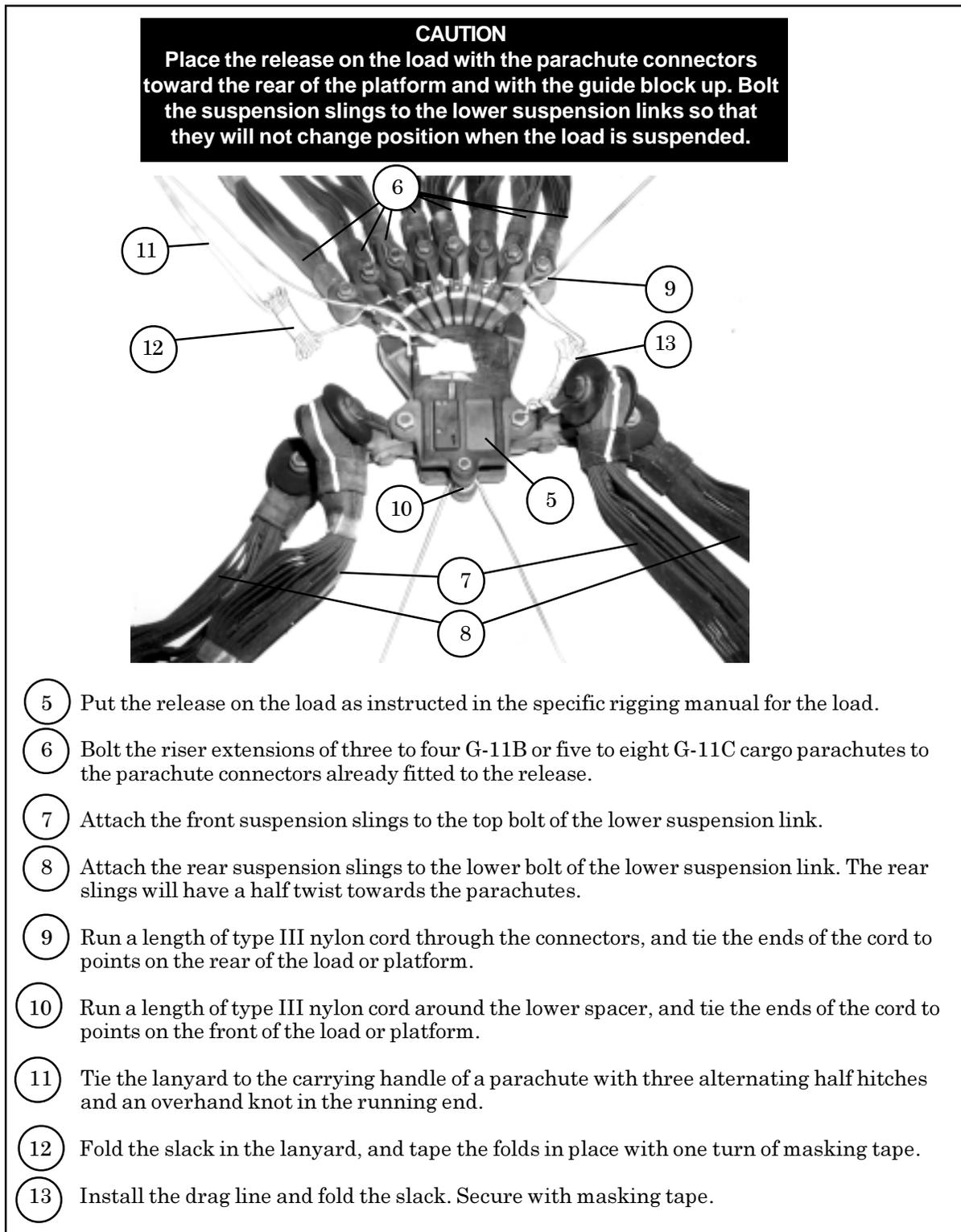


Figure 3-59. M-2 Release Prepared, Attached, and Safety Tied to Load (Continued)