ARMY FM 10-584
AIR FORCE TO 13C7-6-71

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING INDUSTRIAL WHEELED TRACTORS

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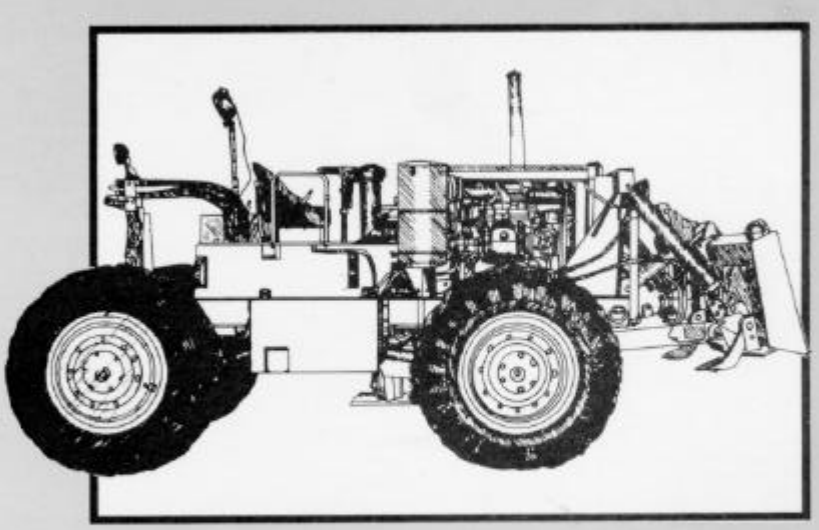

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

Field Manual
No 10-584
Technical Order
No 13C7-6-71

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 12 August 1983

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING INDUSTRIAL WHEELED TRACTORS

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*This manual supersedes FM 10-584/TO 13C7-6-71, 15 May 1975.

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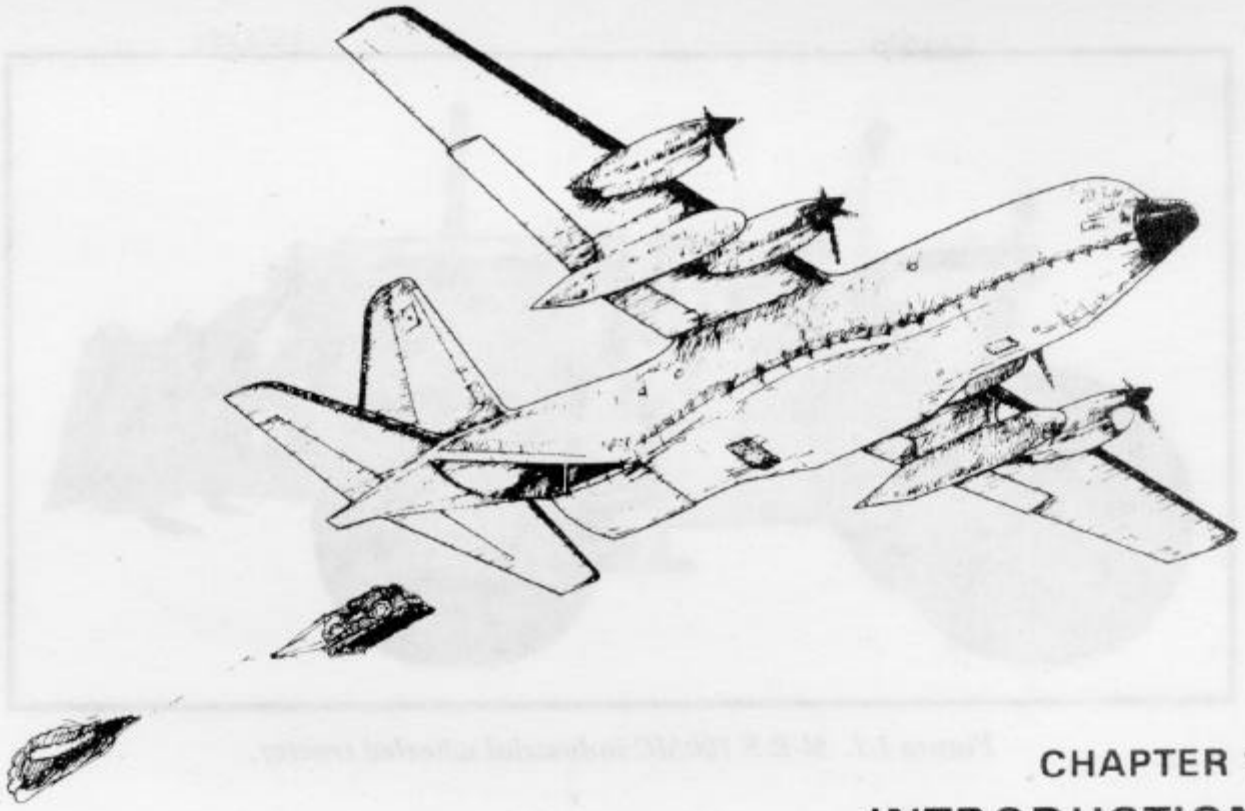

CHAPTER 1
INTRODUCTION

1-1. Scope

This manual tells and shows how to rig the M-R-S 100MC tractor for a low-velocity airdrop from a C-130 or C-141 aircraft. In addition, this manual tells and shows how to rig the tractor for a low-altitude parachute-extraction (LAPE) airdrop from the C-130 aircraft.

1-2. Special Considerations

a. When these loads are airdropped from a C-141 aircraft, they must be loaded into the aircraft in compartments G through K according to TO 1C-141A-9.

b. A continuous 120-foot (3-loop) type XXVI nylon webbing extraction line must be used when these loads are airdropped from a C-141 aircraft.

c. These loads include hazardous material as defined in AFR 71-4/TM 38-250. They must be packaged, marked, and labeled according to AFR 71-4/TM 38-250.

d. A copy of this manual must be made available to the joint airdrop inspectors during the before- and after-loading inspections.

1-3. Recommended Changes

You are encouraged to report any errors or omissions and suggest ways for making this a better manual. Army personnel, send your comments on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to:

Commandant
US Army Quartermaster School
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Air Force personnel, send your reports on AFTO Form 22 (Technical Order Publication Improvement Report) through:

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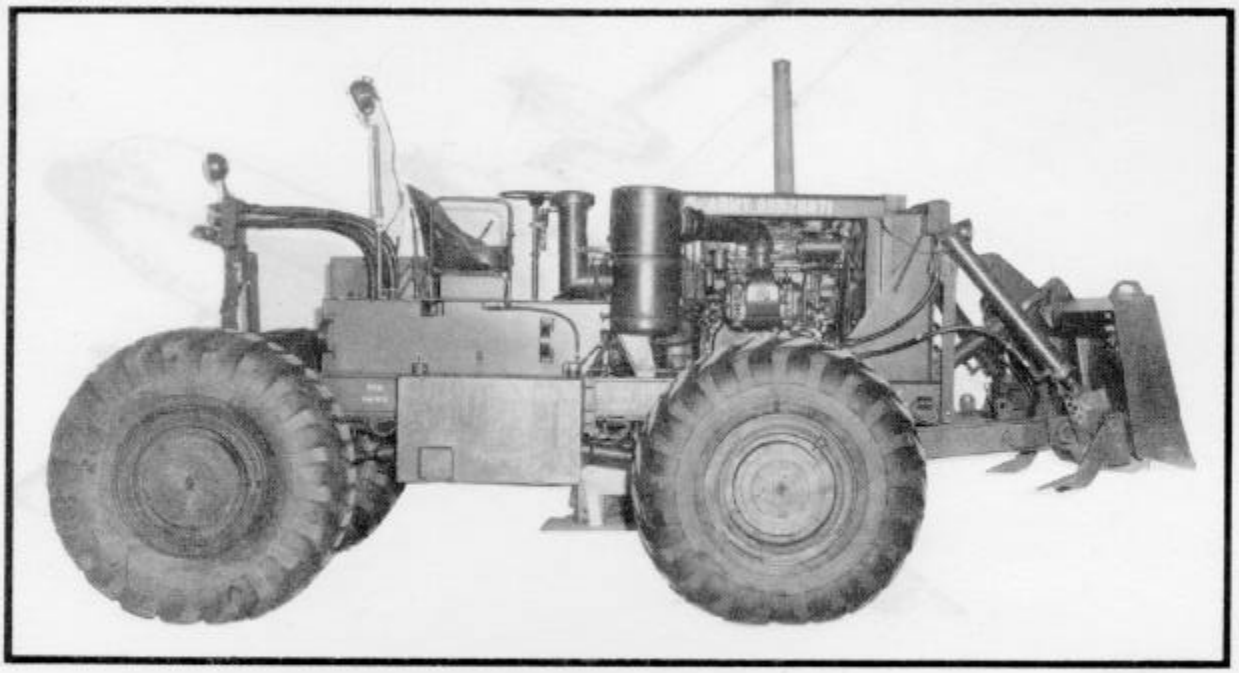
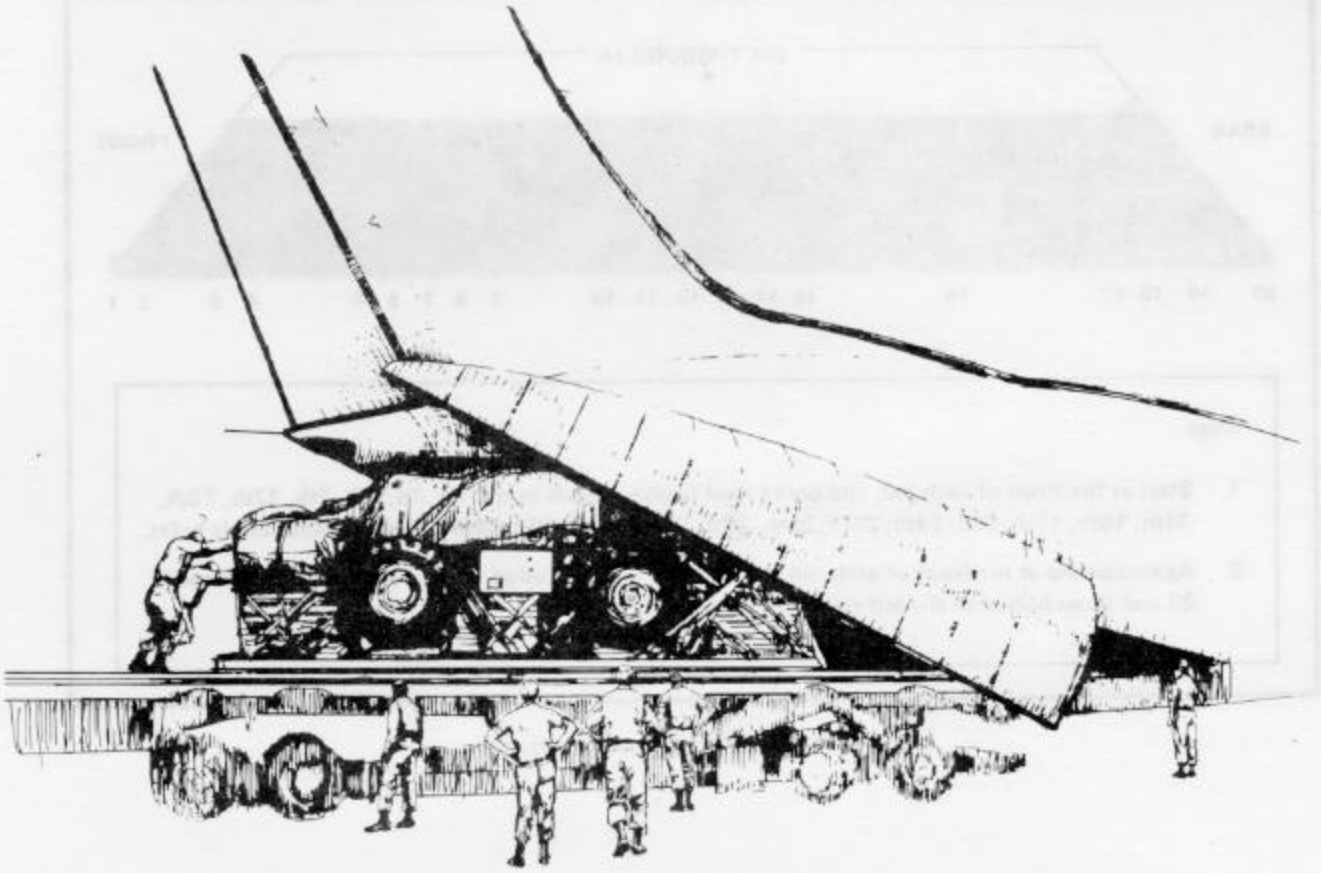


Figure 1-1. M-R-S 100MC industrial wheeled tractor.



CHAPTER 2

RIGGING M-R-S 100MC INDUSTRIAL WHEELED TRACTOR FOR LOW-VELOCITY AIRDROP

2-1. Description of Load

The M-R-S 100MC industrial wheeled tractor, 4 x 4, DED, with a bulldozer and scarifiers, is rigged on a 24-foot modular platform with six G-11A cargo parachutes. The unrigged tractor with the bulldozer and scarifiers weighs 21,500 pounds. It is 121 inches high (reducible to 88 1/2 inches), 221 inches long, and 108 inches wide.

2-2. Preparing Platform

Inspect, or assemble and inspect, the type II modular platform according to TM 10-1670-208-20&P/TO 13C3-4-12 and as shown in figure 2-1.

2-3. Building and Placing Honeycomb Stacks

Build eight honeycomb stacks,and place them on the platform as shown in figure 2-2.

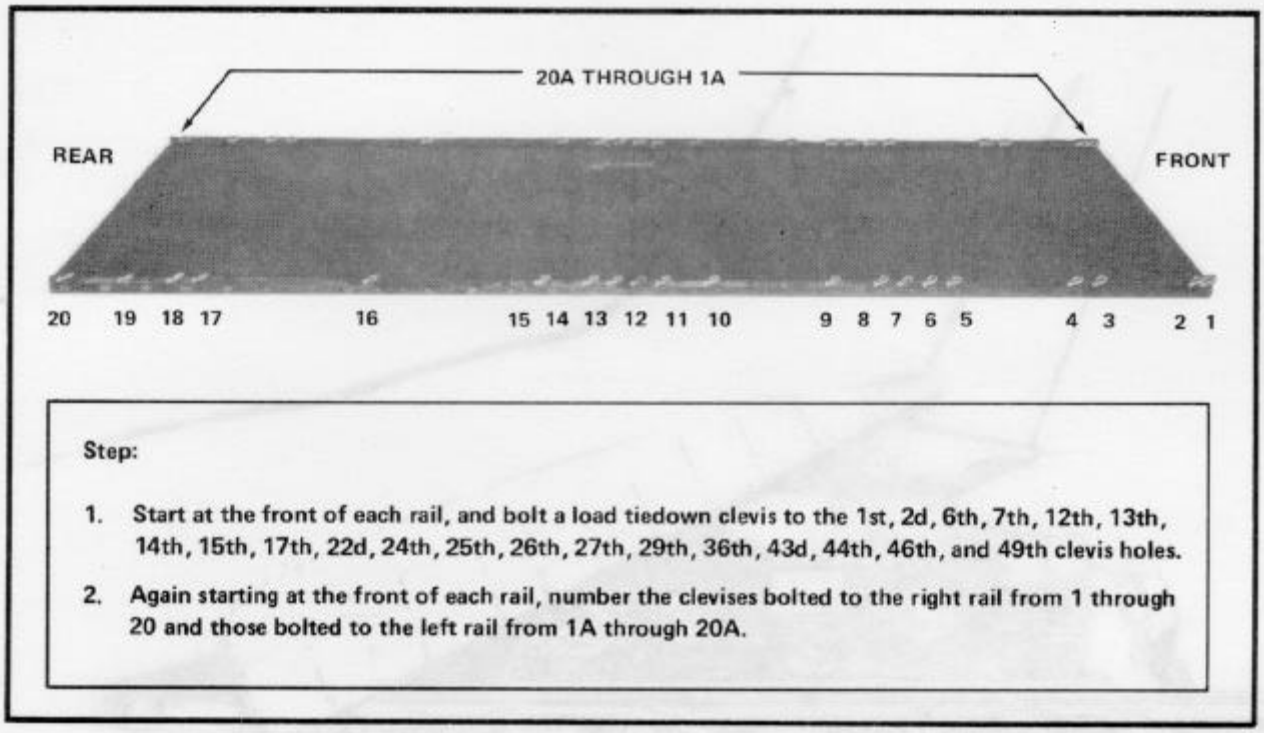
2-4. Preparing Tractor

Prepare the tractor as shown in figure 2-3 and as follows:

a. Check the fuel tank to make sure it is no more than three-fourths full.

b. Make sure that the air hose coupling covers are in place. Put the coupling covers on the stowing hooks and tape them securely.

c. Pad and tape the radiator cap.

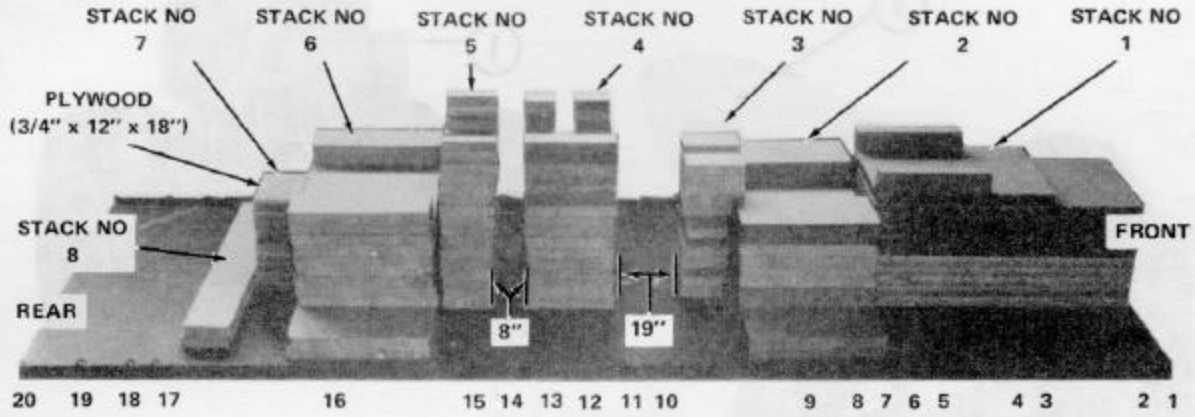


Step:

1. **Start at the front of each rail, and bolt a load tiedown clevis to the 1st, 2d, 6th, 7th, 12th, 13th, 14th, 15th, 17th, 22d, 24th, 25th, 26th, 27th, 29th, 36th, 43d, 44th, 46th, and 49th clevis holes.**
2. **Again starting at the front of each rail, number the clevises bolted to the right rail from 1 through 20 and those bolted to the left rail from 1A through 20A.**

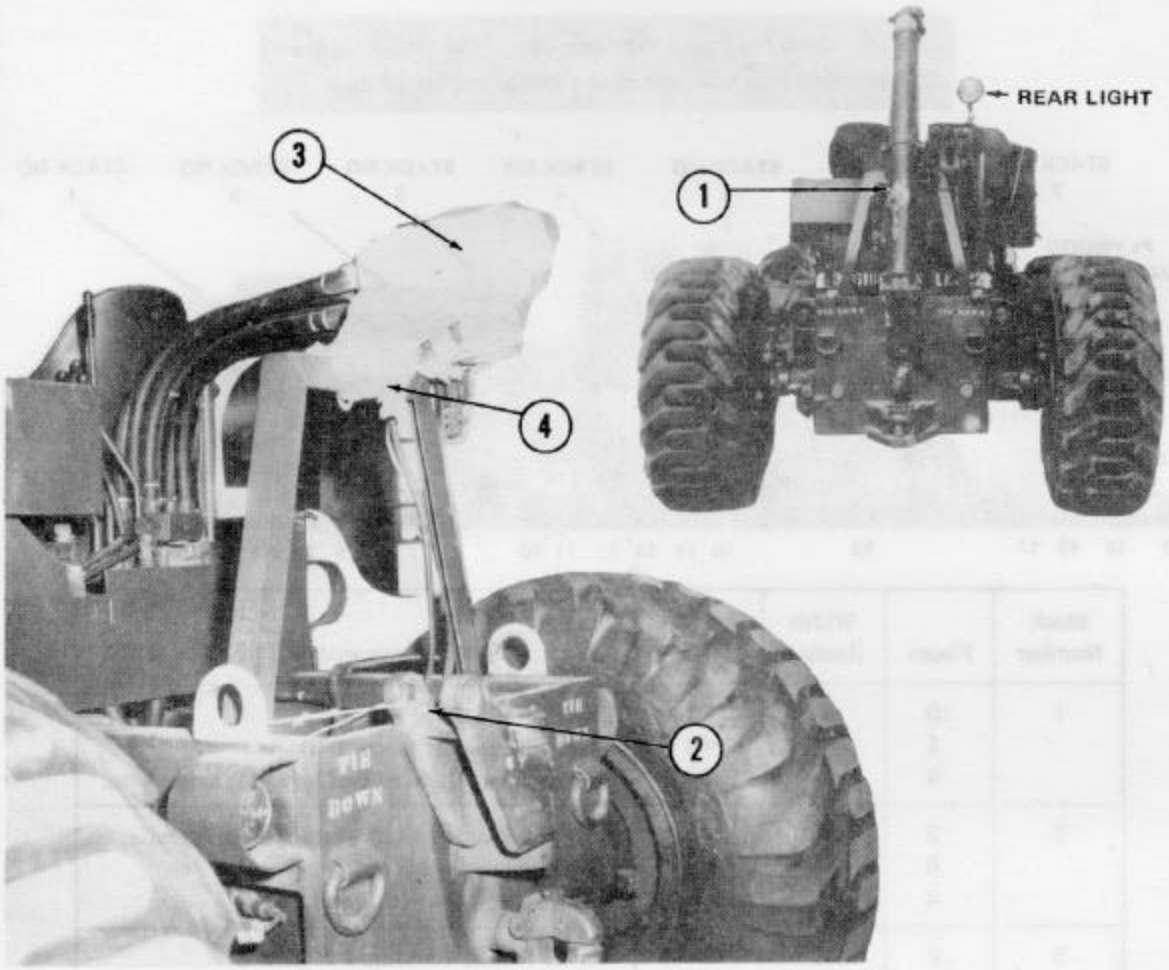
Figure 2-1. Platform prepared.

NOTE: Glue the stacks together. Center the stacks between the platform side rails, and glue them to the platform.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Instructions
1	10	36	72	Layers 1-10.
	1	36	48	Align with rear of layers 1-10.
	4	4	30	Two pieces on each side of layer 11, lengthwise.
2	2	36	96	Layers 1-2, against rear of stack 1, lengthwise.
	6	36	60	Centered lengthwise on layer 2.
	4	18	36	Two pieces on each side of layer 8.
3	8	12	24	Layers 1-8, centered against stack 2.
	1	16	24	Layer 9.
	8	9	16	Four pieces on each side of layer 9.
4	11	24	39	Layers 1-11, 19 inches behind stack 3.
	5	6	24	Place on right side of layer 11.
	5	6	10	Place on left front of layer 11.
	5	6	8	Place on left rear of layer 11.
5	9	14	39	Layers 1-9, 8 inches behind stack 4.
	6	14	14	Three pieces on each side of layer 9.
	2	8	14	One piece on each side of layer 12.
	2	6	14	One piece on each side of layer 13.
	4	4	14	Two pieces on each side of layer 14.
6	2	36	96	Layers 1-2, lengthwise against stack 5.
	7	36	60	Centered on layer 2.
	4	12	36	Two pieces on each side of layer 9.
7	9	12	18	Centered against stack 6.
8	2	12	80	Place lengthwise against stack 7.

Figure 2-2. Honeycomb stacks in place.



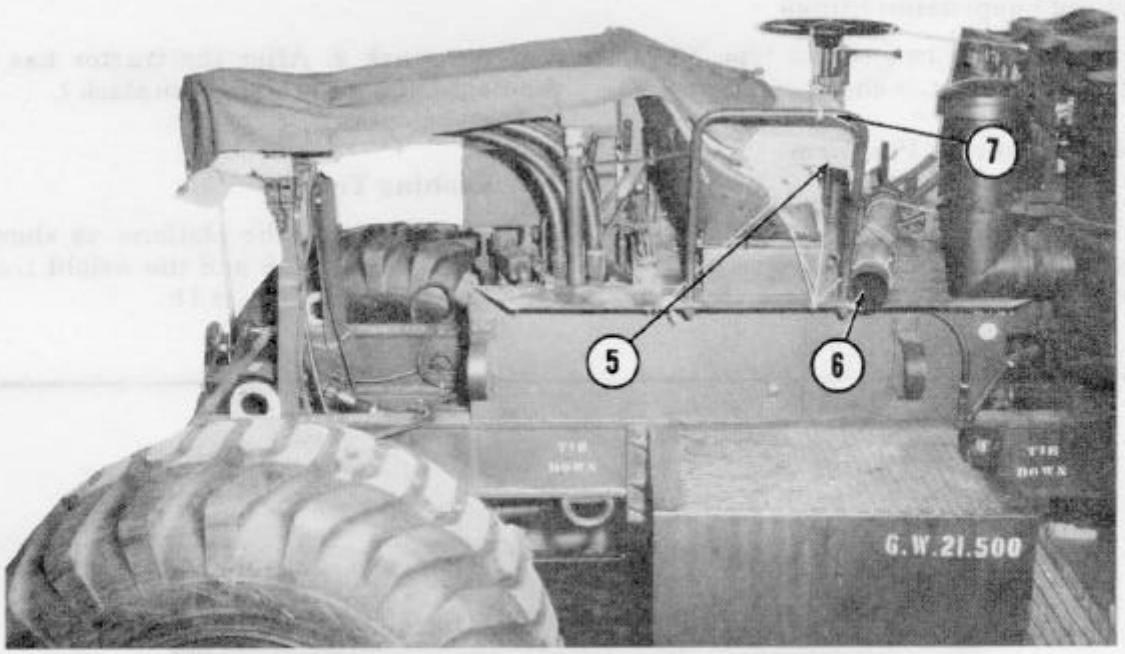
(1) Remove the weight transfer cylinder.

(2) Swing the hydraulic lift attaching point to the left as shown. Tie the lift attaching point to the left rear lifting point with type III nylon cord.

(3) Turn the rear light down. Pad the rear light and the hydraulic lines with cellulose wadding, and tape the wadding in place.

(4) Pad and tape the carrying bracket that is located next to the rear light.

Figure 2-3. Rear of tractor prepared.



(5) Remove the light and bracket, and pad them with cellulose wadding. Tie the light and bracket to the seat with type III nylon cord. Lay a 12- by 24-inch piece of honeycomb on top of the light and bracket. Tie the honeycomb in place with type III nylon cord.

(6) Remove the exhaust stack, and place it on the floor in front of the seats. Tape the exhaust opening. Tie the exhaust stack in place with type III nylon cord.

(7) Tie type III nylon cord from the steering wheel to the dashboard and from the steering wheel to the safety rail.

Figure 2-4. Light, exhaust stack, and steering wheel secured.

2-5. Attaching Suspension Slings

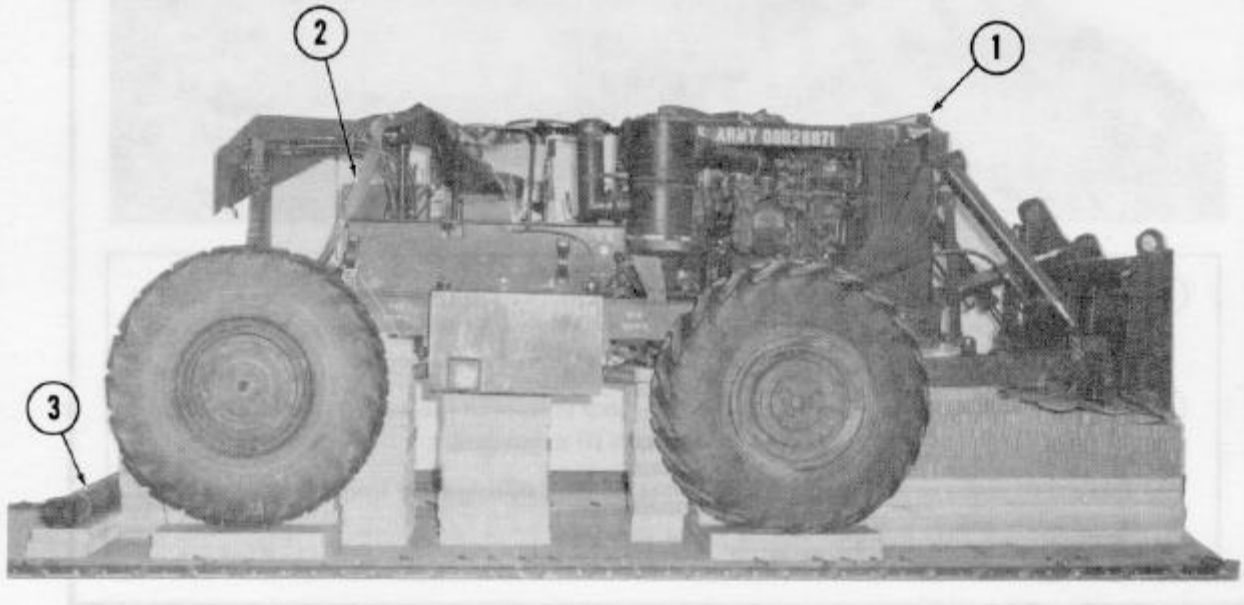
Attach two 12-foot and two 16-foot type XXVI nylon slings to the tractor as shown in figure 2-5.

2-6. Setting Tractor on Platform

Use the suspension slings to raise and position the tractor. Raise the dozer blade at least 40 inches from the ground. Position the tractor on the platform with the front tires centered (front to rear) on stack 2. After the tractor has been positioned, lower the blade onto stack 1.

2-7. Lashing Tractor

Lash the tractor to the platform as shown in figures 2-6 through 2-8 and the weight transfer cylinder as shown in figure 2-9.



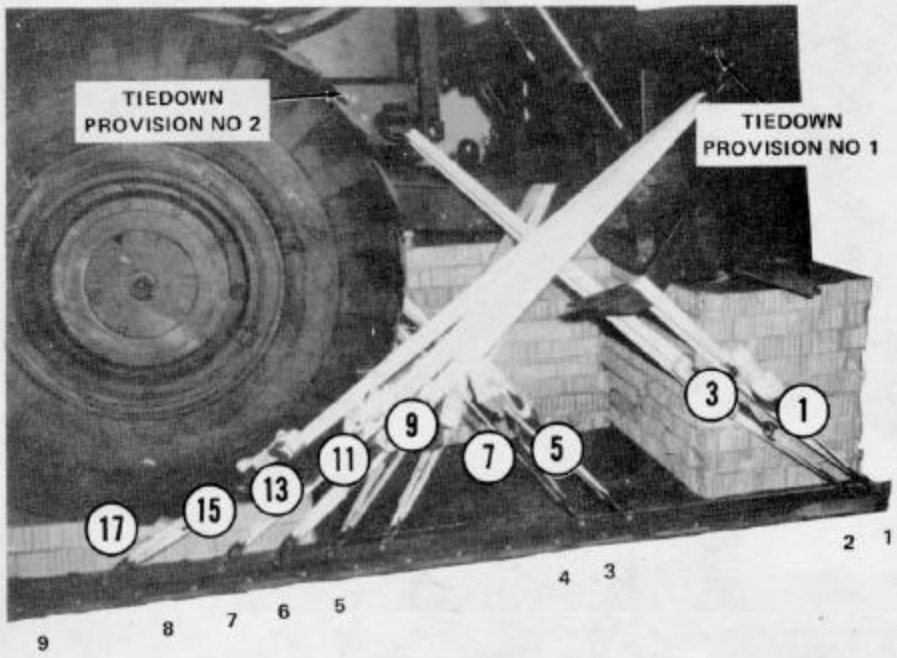
(1) Use a screw pin suspension clevis assembly to bolt a 12-foot (4-loop) type XXVI nylon sling to each front lifting eye.

(2) Use a screw pin suspension clevis assembly to bolt a 16-foot (4-loop) type XXVI nylon sling to each rear lifting eye.

(3) Lay the weight transfer cylinder on stack number 8.

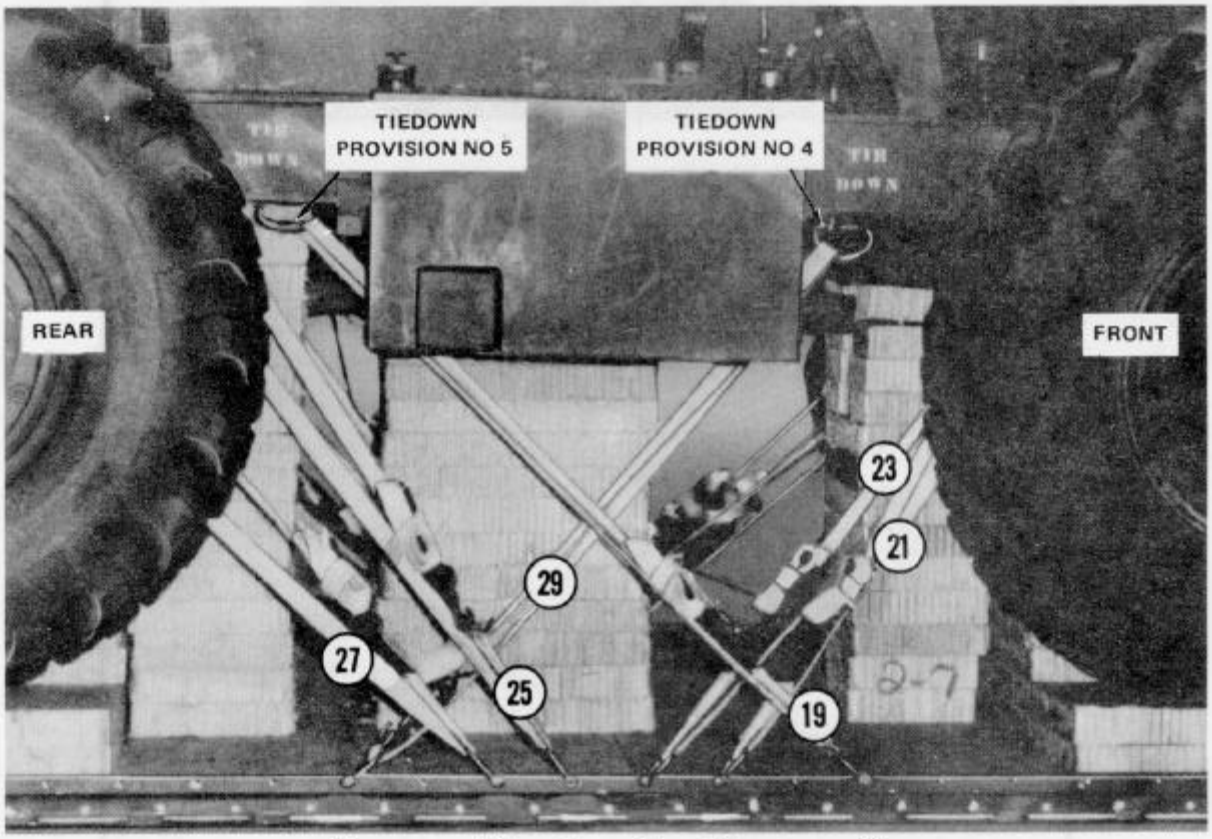
Figure 2-5. Suspension slings attached and tractor set on platform.

CAUTION: Make sure that the lashings are not so tight that they cause the platform to bow.



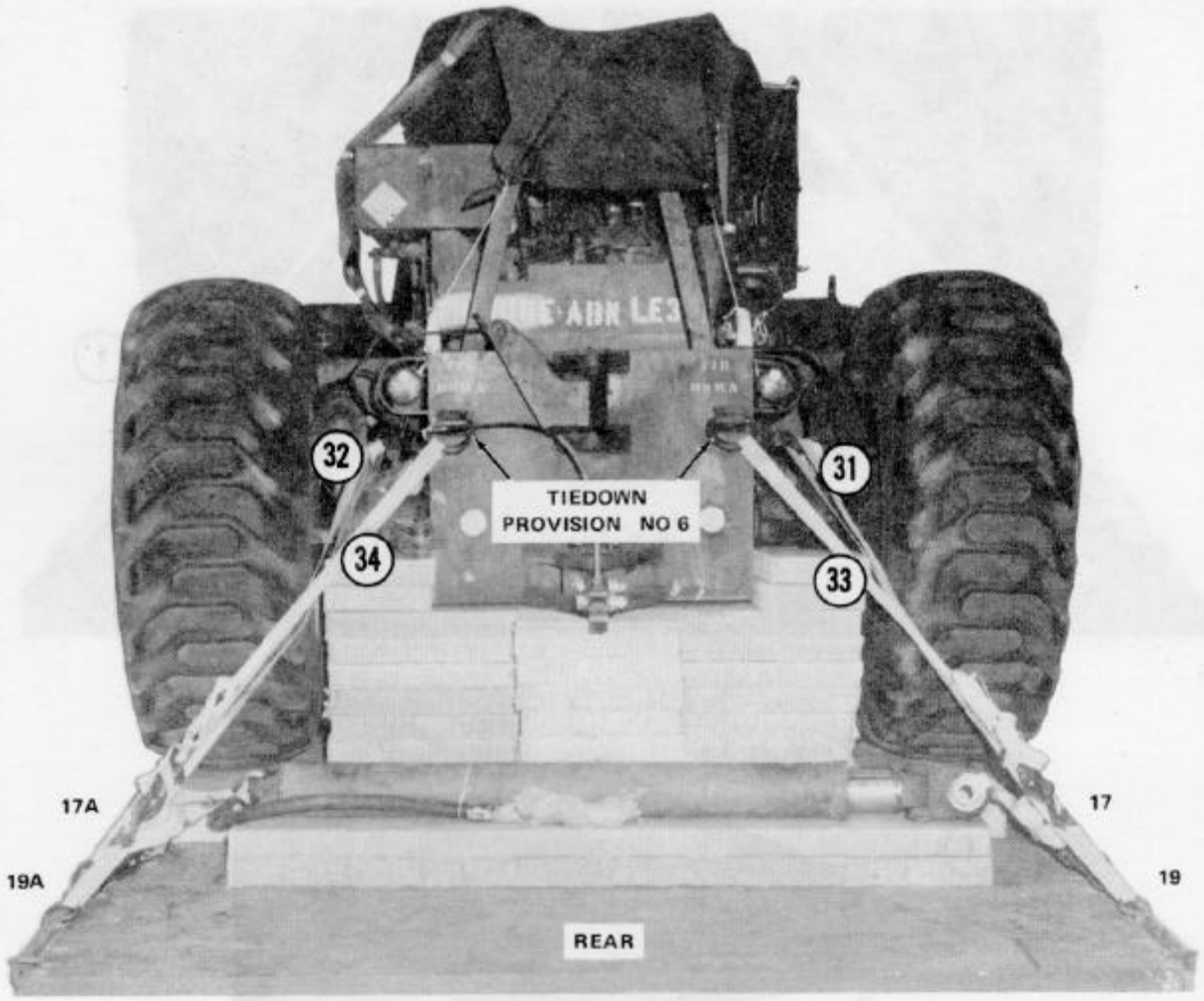
Lashing Number	Tiedown Clevis Number	Instructions
1	1	Around right front scarifier
2	1A	Around left front scarifier
3	2	To tiedown provision number 2
4	2A	To tiedown provision number 2
5	3	To tiedown provision number 3
6	3A	To tiedown provision number 3
7	4	To tiedown provision number 3
8	4A	To tiedown provision number 3
9	5	Around front dozer push arm
10	5A	Around front dozer push arm
11	6	Around front dozer push arm
12	6A	Around front dozer push arm
13	7	To blade tiedown provision number 1
14	7A	To blade tiedown provision number 1
15	8	To blade tiedown provision number 1
16	8A	To blade tiedown provision number 1
17	9	To blade tiedown provision number 1
18	9A	To blade tiedown provision number 1

Figure 2-6. Lashings 1 through 18 installed.



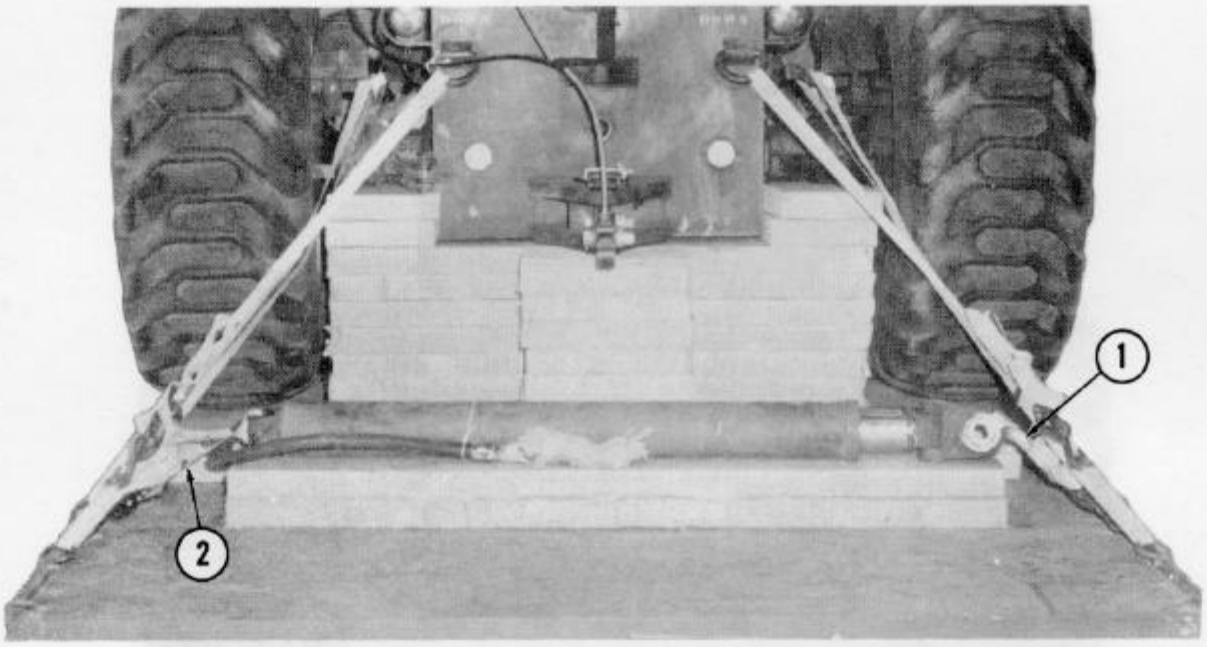
Lashing Number	Tiedown Clevis Number	Instructions
19	10	To tiedown provision number 5
20	10A	To tiedown provision number 5
21	11	Around front axle U frame
22	11A	Around front axle U frame
23	12	Around front axle U frame
24	12A	Around front axle U frame
25	13	Around main frame
26	13A	Around main frame
27	14	Around right rear steering arm
28	14A	Around left rear steering arm
29	15	To tiedown provision number 4
30	15A	To tiedown provision number 4

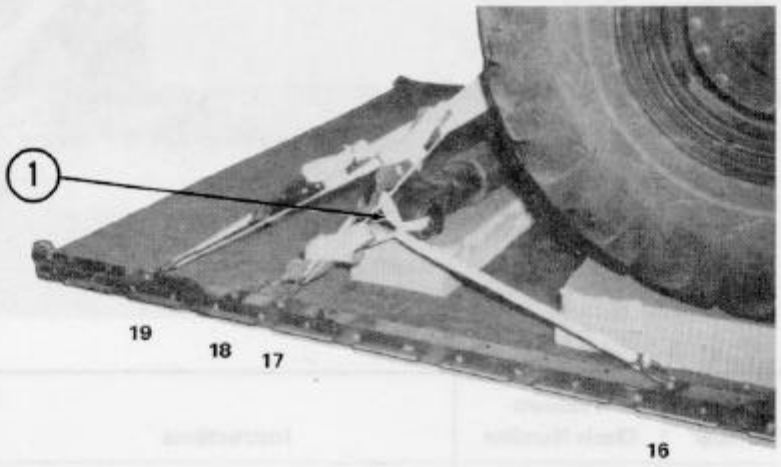
Figure 2-7. Lashings 19 through 30 installed.



Lashing Number	Tiedown Clevis Number	Instructions
31	17	Around right rear steering arm
32	17A	Around left rear steering arm
33	19	Through tiedown provision number 6
34	19A	Through tiedown provision number 6

Figure 2-8. Lashings 31 through 34 installed.





(1) Run the strap through clevis 16, and through its own D-ring, and pull the strap taut. Run the strap through the end of the cylinder (rear to front). Fit a D-ring to the end of the strap, and hook the D-ring to clevis 18.

(2) Strap the other end of the cylinder to clevises 16A and 18A in a similar manner.

(3) Run a second 15-foot tiedown strap through the other end of the cylinder. Pass it through clevis tiedown 16A and 18A, and secure in the same manner (not shown).

Figure 2-9. Weight transfer cylinder secured.

2-8. Installing Load Cover

Tie a 9- by 12-foot load cover over the rear of the tractor with type III nylon cord.

2-9. Preparing Parachute Stowage Platform

a. Prepare two stacks of honeycomb, each 12 layers high. Use 18- by 38-inch honeycomb for the first four layers and 18- by 48-inch honeycomb for all other layers. Place the honeycomb stacks 18 inches from the sides of the platform and flush with the rear of the platform.

b. Build, position, and secure a parachute stowage platform as shown in figures 2-10 and 2-11.

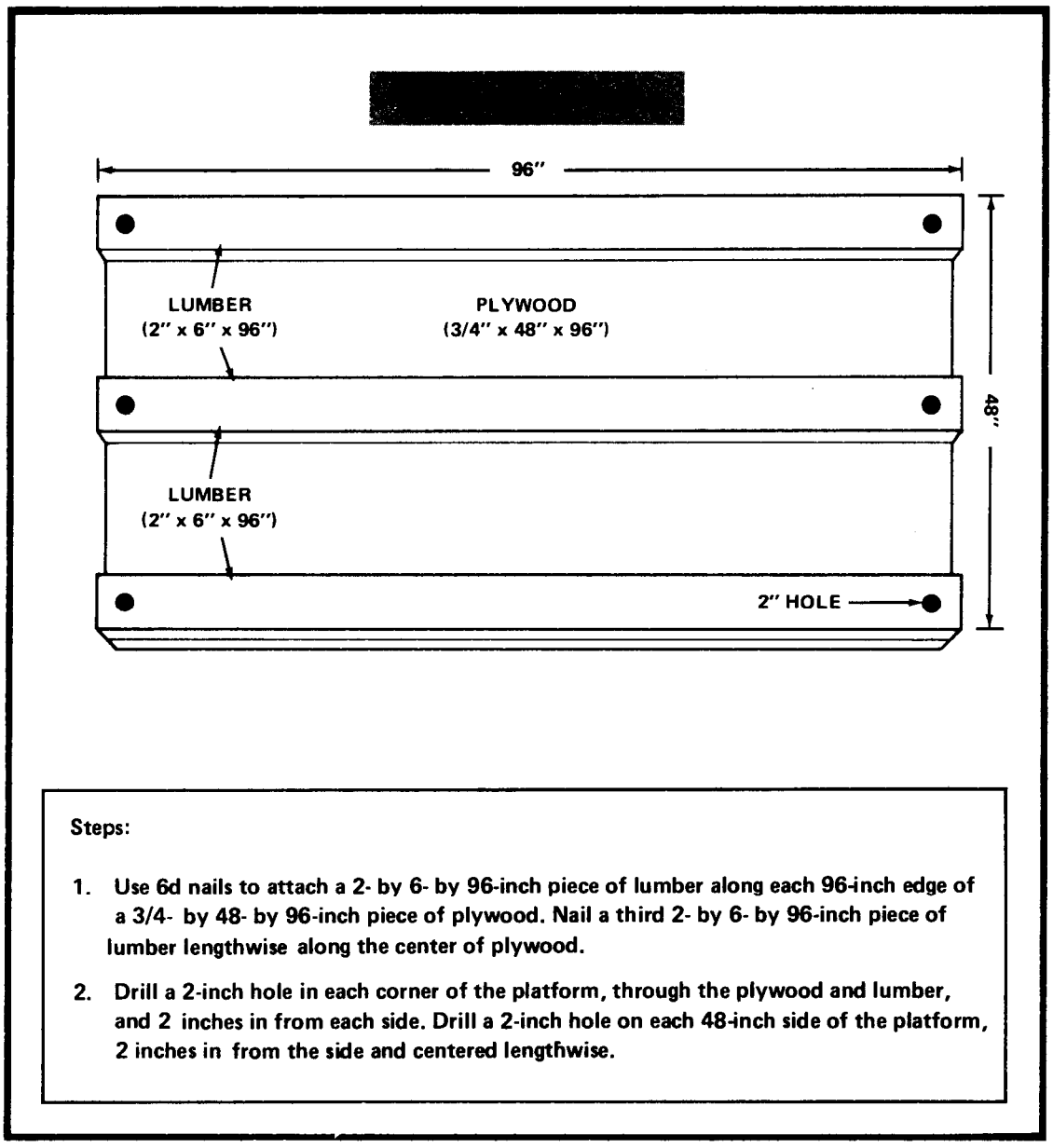
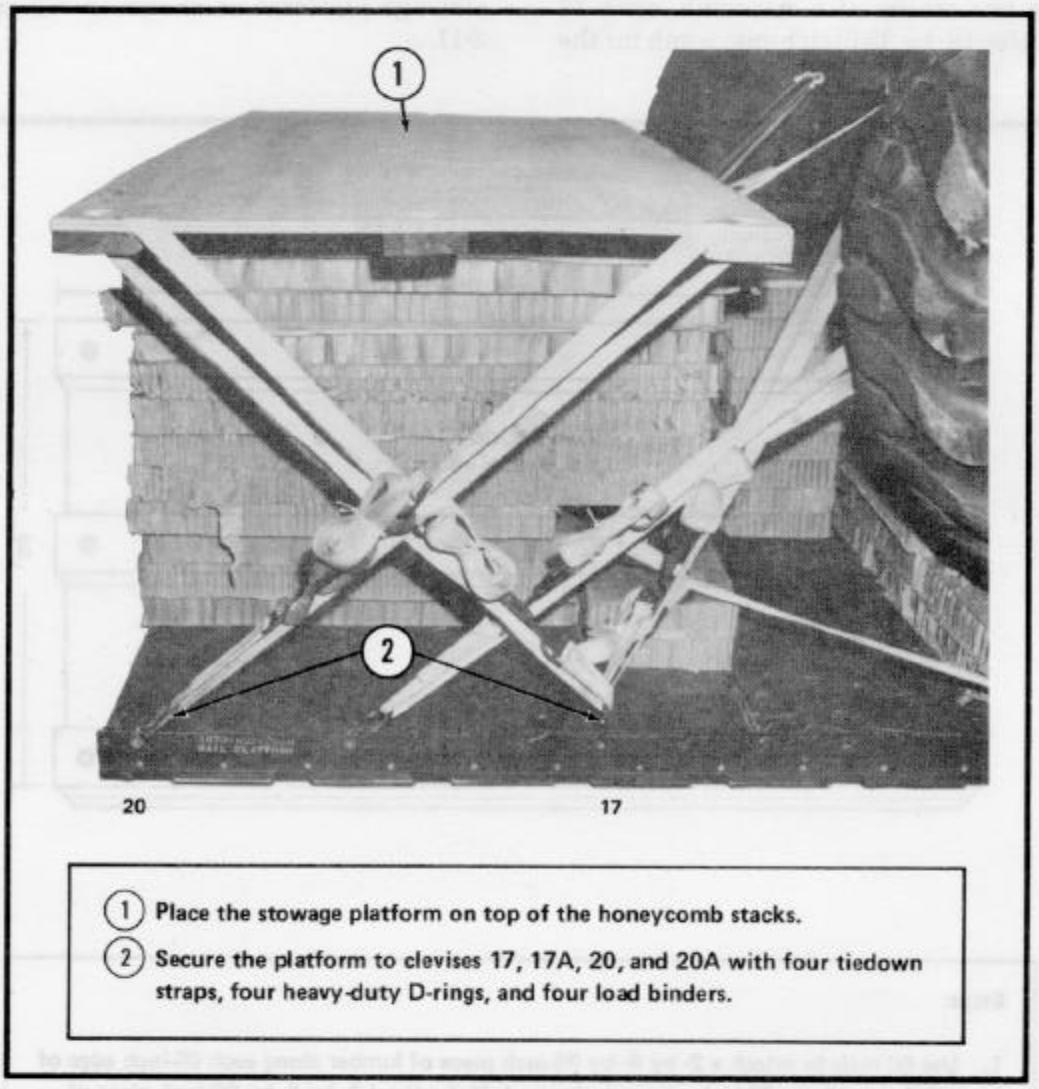


Figure 2-10. Construction details for stowage platform.



(1) Place the stowage platform on top of the honeycomb stacks.

(2) Secure the platform to clevises 17, 17A, 20, and 20A with four tiedown straps, four heavy-duty D-rings, and four load binders.

Figure 2-11. Parachute stowage platform positioned and secured.

2-10. Stowing Cargo Parachutes

Prepare and stow six G-11A cargo parachutes according to FM 10-500/TO 13C7-1-5 and as shown in figure 2-12.

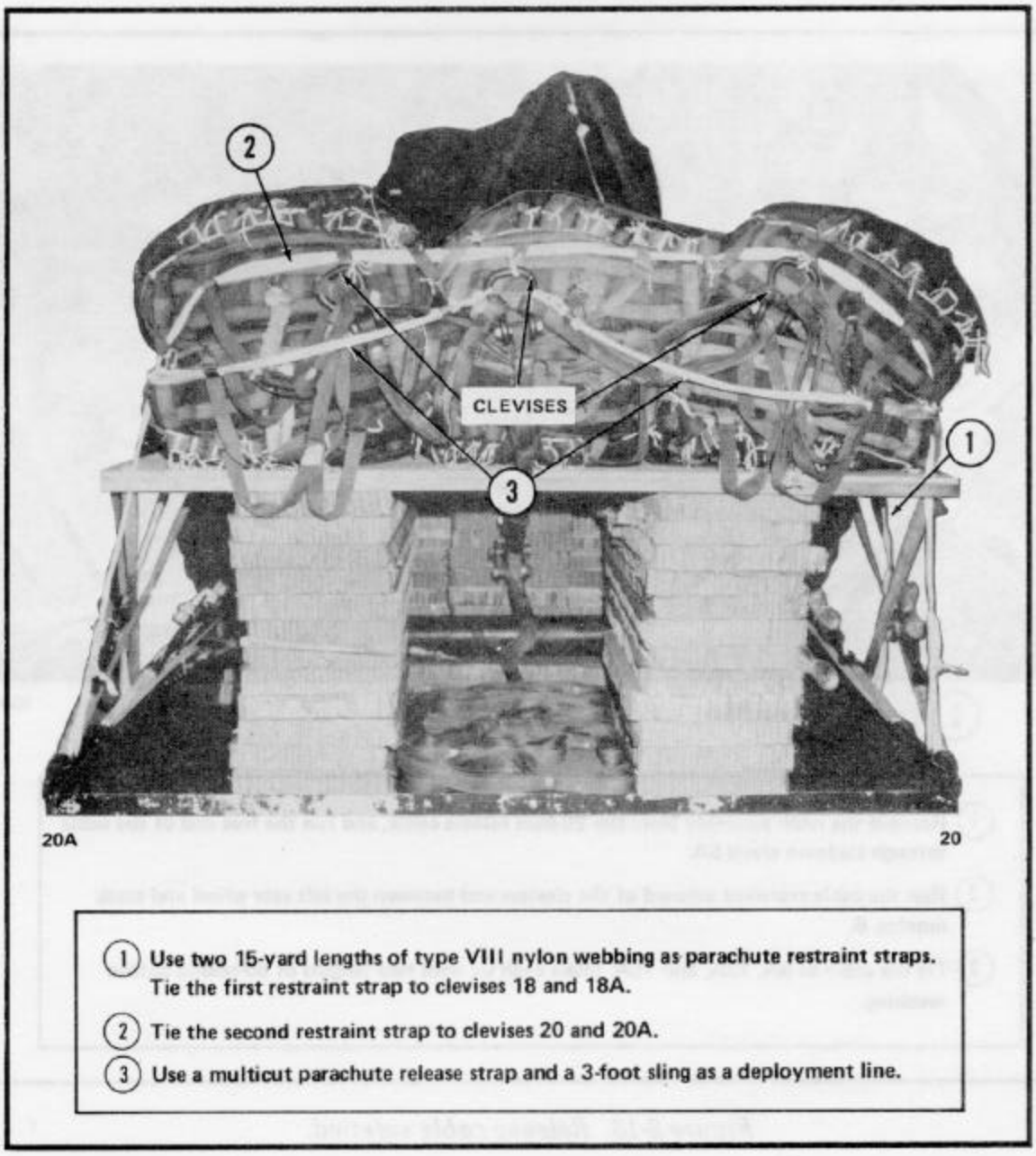
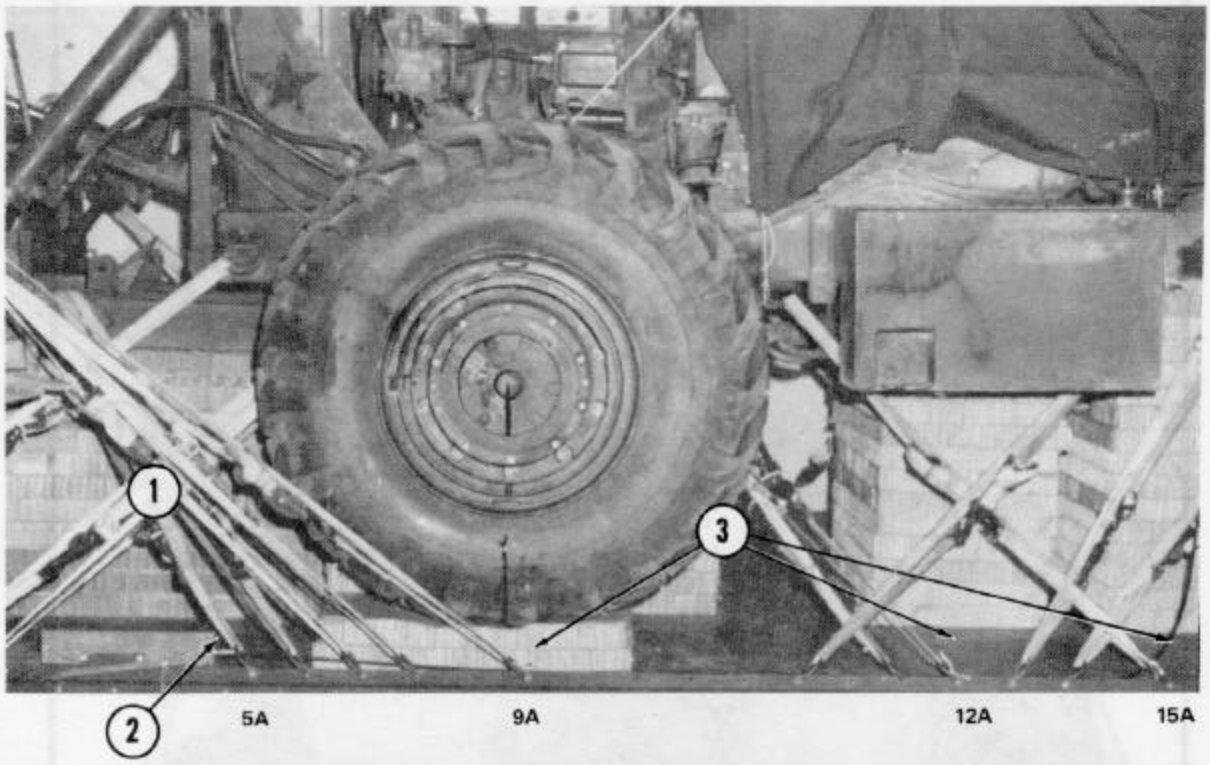


Figure 2-12. Cargo parachutes stowed.

2-11. Installing Extraction Force Transfer Coupling (EFTC)

Attach the components of the EFTC to the tractor according to FM 10-500/TO 13C7-1-5 and as shown in figures 2-13 and 2-14.



(1) Remove the latch assembly from the 20-foot release cable, and run the free end of the cable through tiedown clevis 5A.

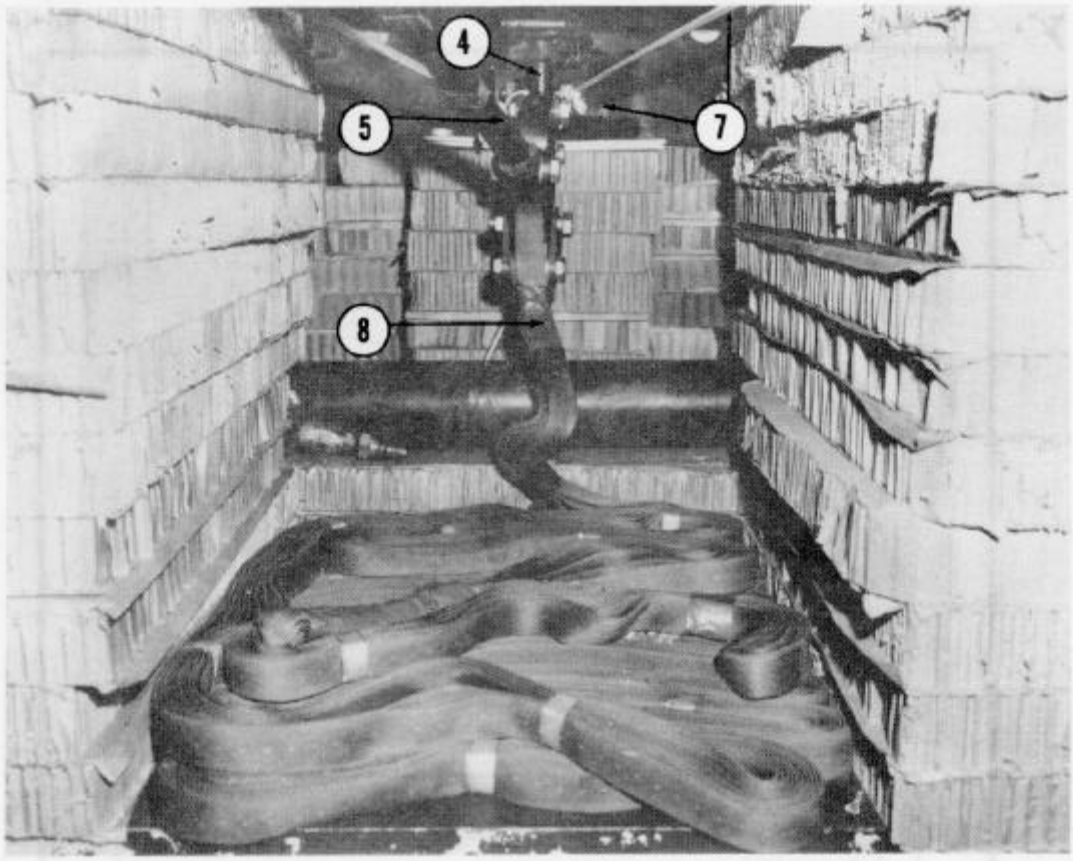
(2) Run the cable rearward inboard of the clevises and between the left rear wheel and stack number 6.

(3) Tie the cable to 9A, 12A, and 15A. Make each tie with two lengths of 80-pound cotton webbing.

Figure 2-13. Release cable safetied.

CAUTION: Be sure that the bolts attaching coupling adapter to latch assembly and rear pan towbar are very tight.

CAUTION: To prevent damage to the cable, make sure that there is sufficient slack in the release cable at the latch assembly.



(4) Bolt the adapter latch assembly to the rear pan towbar.

(5) Attach the cable to the latch assembly.

(6) Bolt the latch assembly to the link assembly with the release cable down (not shown).

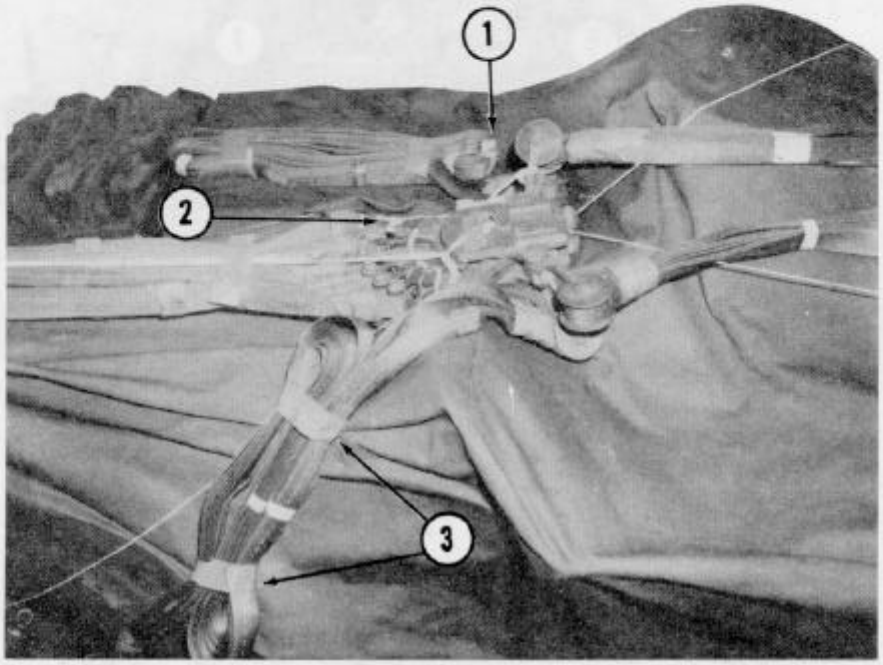
(7) Tie a double length of 1/2-inch tubular nylon webbing to each side of the latch assembly adapter. Pass the ties under the parachute stowage platform, and secure them to the outside corner of the parachute stowage platform.

(8) Place the free end of the deployment line on the top spacer of the link assembly. Fold the deployment line, and secure the folds with tape or 80-pound cotton webbing. Attach the extraction line according to FM 10-500/TO 13C7-1-5.

Figure 2-14. Latch assembly and extraction line installed.

2-12. Installing Release System

Prepare and attach an M-2 cargo parachute release (fig 2-15), or prepare, attach, and safety six 5,000-pound-capacity cargo parachute releases to the load according to FM 10-500/TO 13C7-1-5.



(1) Place the assembly on top of the load.

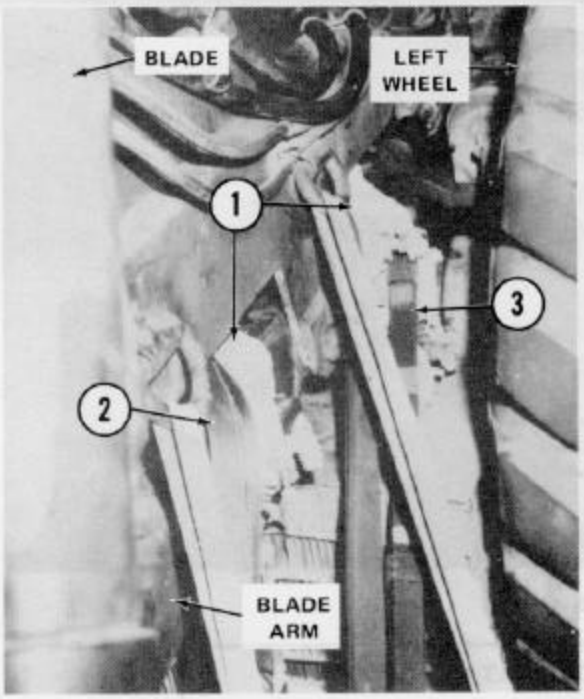
(2) Safety the releases with type III nylon cord passed through the parachute connectors according to FM 10-500/TO 13C7-1-5.

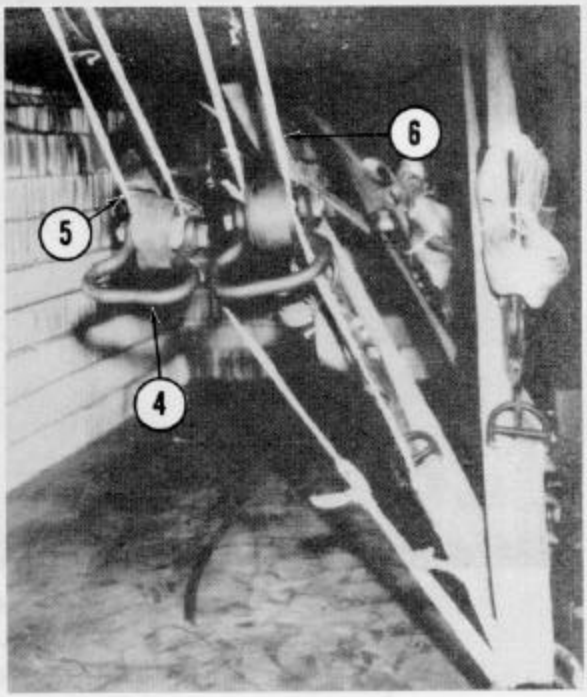
(3) Fold excess sling and tape it, or tie excess with 80-pound cotton webbing.

Figure 2-15. M-2 cargo parachute release installed.

2-13. Forming the Emergency Restraint System

To form the emergency restraint system, use two 12-foot (3-loop) slings, two 16-foot (3-loop) slings, and four cargo suspension clevises with large spacers. Install these components as shown in figure 2-16.





The emergency restraint system is installed on both sides of the tractor. This figure shows the slings and clevises on the left side of the tractor only. Install the slings and clevises on the right side of the tractor in a similar manner.

1. Pad the blade arm and the left wheel support bracket with cellulose wadding, and tape the wadding in place.
2. Pass a 12-foot (3-loop) sling around the blade arm.
3. Pass a 16-foot (3-loop) sling around the wheel support bracket.
4. Fit a large spacer in each end loop of the 12-foot sling, and fit each spacer to the bolt of a cargo suspension clevis.
5. Tie a length of 1/2-inch tubular nylon webbing to the bolt of the clevis. Run the webbing up and over the blade arm and down to the side rail. Tie the webbing to load tiedown clevis 20A.
6. Repeat steps 4 and 5 with the 16-foot sling.

Figure 2-16. Emergency restraint system.

2-14. Positioning Extraction Parachute

a. C-130 Aircraft. Place a light- or heavy-duty 28-foot cargo extraction parachute on the load for installation in the aircraft.

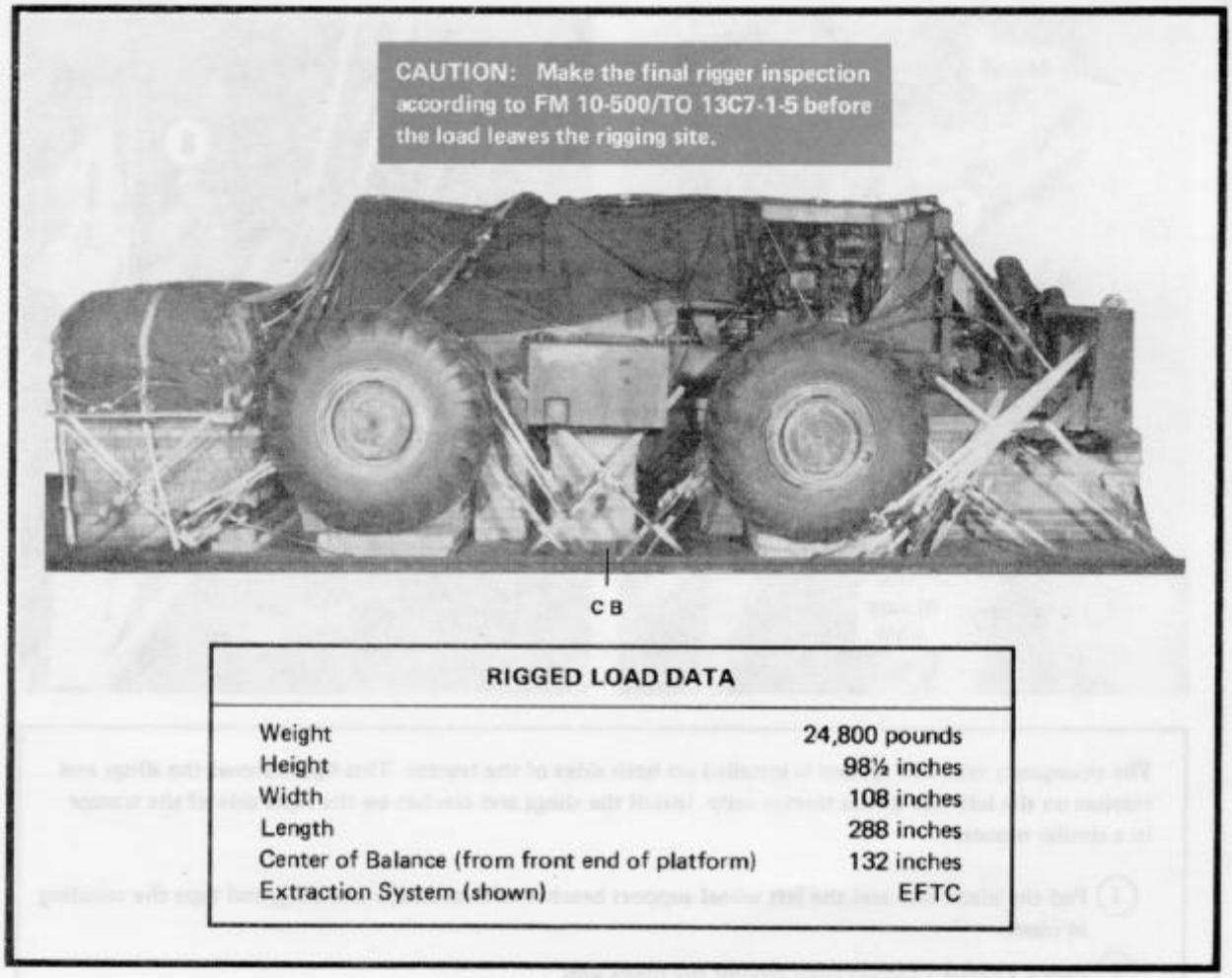
b. C-141 Aircraft. Place a heavy-duty 28-foot cargo extraction parachute on the load for installation in the aircraft. Use a continuous 140-foot (3-loop) type XXVI nylon webbing extraction line.

2-15. Aircraft Loading Requirements

When loading the C-141 aircraft, place the load in compartments G through K, according to TO 1C-141A-9.

2-16. Marking Rigged Load

Mark the rigged load according to FM 10-500/TO 13C7-1-5 and as shown in figure 2-17.



RIGGED LOAD DATA	
Weight	24,800 pounds
Height	98½ inches
Width	108 inches
Length	288 inches
Center of Balance (from front end of platform)	132 inches
Extraction System (shown)	EFTC

Figure 2-17. M-R-S 100MC rigged for low-velocity airdrop.

2-17. Equipment Required

The equipment needed to prepare and rig the 100MC tractor for low-velocity airdrop is listed in table 2-1.

Table 2-1. Equipment required for rigging M-R-S 100MC tractor for low-velocity airdrop.

NATIONAL STOCK NUMBER	ITEM	QUANTITY
8040-00-273-8713	Adhesive, paste, 1-gal	As required
1377-00-958-1048	Cartridge, time-delay, 20-sec (use w/5,000-lb release only)	6
4030-00-432-2516	Clevis, suspension, w/screw pin and sleeve	4
1670-00-090-5354	Clevis Assembly, suspension, large (add 6 w/5,000-lb release)	9
8305-00-242-3593	Cloth, cotton duck, 60-in, load cover	8 yd
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, extraction force transfer w/20-ft cable	1
1670-00-360-0328	Cover, clevis, large	6
1670-00-360-0329	Cover, link, dual	18
8135-00-664-6958	Cushioning Material, packaging, cellulose wadding	As required
1670-00-753-3631	Deployment Line, 9-ft (3-loop) type X nylon OR	1
1670-01-062-6304	Deployment Line, 9-ft (2-loop) type XXVI nylon	1
	Emergency Restraint System:	
4030-00-678-8562	Clevis, medium	4
1670-00-823-5041	Sling, 12-ft (3-loop) type X nylon OR	2
1670-01-062-6303	Sling, 12-ft (2-loop) type XXVI nylon	2
1670-00-823-5042	Sling, 16-ft (3-loop) type X nylon OR	2
1670-01-063-7761	Sling, 16-ft (2-loop) type XXVI nylon	2
5365-00-007-3414	Spacer, large	
1670-00-432-2513	Line, extraction, 60-ft (5-loop) type XXVI nylon (for C-130)	1
	OR	
1670-01-064-4454	Line, extraction, 60-ft (6-loop) type XXVI nylon	1
1670-01-107-7651	Line, extraction, 140-ft (3-loop) type XXVI nylon (for C-141)	1
1670-00-783-5988	Link Assembly, type IV	18
1670-00-799-8597	Load Coupler, 12-spool (use w/5,000-lb release only)	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	35 sheets
	4- by 14-in	(4)
	4- by 30-in	(4)
	6- by 8-in	(5)
	6- by 10-in	(5)
	6- by 14-in	(2)
	6- by 24-in	(5)
	8- by 14-in	(2)
	9- by 16-in	(8)
	12- by 18-in	(9)
	12- by 24-in	(9)
	12- by 36-in	(4)
	14- by 14-in	(6)
	14- by 39-in	(9)
	16- by 24-in	(1)
	18- by 36-in	(4)

Table 2-1. (continued)

NATIONAL STOCK NUMBER	ITEM	QUANTITY
	18- by 38-in	(8)
	18- by 48-in	(16)
	24- by 39-in	(11)
	36- by 48-in	(1)
	36- by 60-in	(13)
	36- by 72-in	(10)
	36- by 96-in	(4)
1670-00-269-1107	Parachute, cargo, G-11A	6
1670-00-262-1797	Parachute, cargo extraction, 28-ft	1
	Platform, airdrop, modular, 24-ft	1
1670-00-893-1631	Clevis, load tiedown	40
1670-00-893-1624	Panel	6
1670-00-893-1629	Rail, platform side, 24-ft	2
5320-00-893-1632	Rivet, blind drive type, ¼-in diameter	96
1670-01-097-8817	Release, cargo parachute, M-2 (if not available, use 6 ea, Release, cargo parachute, 5,000-lb, NSN 1377-00-799-8494)	1
1670-00-753-3794	Riser extensions, 20-ft (2-loop) type X nylon OR	24
1670-01-062-6302	Riser extensions, 20-ft (2-loop) type XXVI nylon	24
	Sling, cargo, airdrop:	
1670-00-753-3788	3-foot (3-loop) type X nylon (add 6 w/5,000-lb release) OR	2
1670-01-062-6301	3-foot (2-loop) type XXVI nylon	2
1670-00-432-2506	12-ft (4-loop) type XXVI nylon OR	2
1670-01-062-6307	12-ft (4-loop) type XXVI nylon	2
1670-00-432-2507	16-ft (4-loop) type XXVI nylon OR	2
1670-01-062-6308	16-ft (4-loop) type XXVI nylon	2
	Stowage Platform, cargo parachute:	
5510-00-220-6148	Lumber, 2- by 6- by 96-in	3
5315-00-010-4657	Nail, steel wire, common 6d	As required
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	1
1670-00-040-8219	Strap, parachute release, multiple cut	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tiedown Assembly, 10,000-lb	40
8305-00-268-2411	Webbing, cotton, 80-lb	As required
8305-00-263-3591	Webbing, nylon, type VIII (parachute restraint)	30 yd
8305-00-082-5752	Webbing, nylon, tubular 1/2-in	As required

APPENDIX A
REFERENCES

AFR 71-4/TM 38-250	Packaging and Materials Handling: Preparation of Hazardous Materials for Military Air Shipment
FM 10-500/TO 13C7-1-5	Airdrop of Supplies and Equipment: General Information for Rigging Airdrop Platforms
TM 5-2420-219-15	Operator's, Organizational, Direct Support, General Support and Depot Maintenance Manual for Tractor, Wheeled, Industrial: DED w/Bulldozer (M-R-S Mfg. Model 100 (4x4) MC) Sectionalized (FSN 2420-902-3084) and Non-Sectionalized (2420-415-6132)
TM 10-1670-208-20&P/ TO 13C3-4-12	Organizational Maintenance Manual Including Repair Parts and Special Tools List for Platforms, Type II Modular and LAPES/ Airdrop Modular
TO 1C-141A-9	Loading Instructions: USAF Series C-141B Aircraft.

GLOSSARY

AFR	Air Force regulation
AFTO	Air Force technical order
CB	center of balance
d	penny
DA	Department of the Army
DED	diesel engine driven
ea	each
EFTC	extraction force transfer coupling
FM	field manual
ft	foot/feet
gal	gallon
in	inch
LAPE	low-altitude parachute-extraction
lb	pound
no	number
NSN	national stock number
sec	second
TM	technical manual
TO	technical order
w/	with
yd	yard

FM 10-584/TO 13C7-6-71

12 AUGUST 1983

By Order of the Secretaries of the Army and the Air Force:

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

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