Change
No 3

C3, FM 10-510/TO 13C7-2-451
HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 14 November 1985

AIRDROP OF SUPPLIES AND EQUIPMENT RIGGING 1/4-TON TRUCKS

This change gives new procedures for rigging the M151 truck on an 8-foot modular platform. It also gives procedures for rigging an accompanying load in the rear of the truck and gives procedures for rigging a radar jamming system in the rear of the truck.

FM 10-510/TO 13C7-2-451, 15 May 1975, is changed as follows:

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.

2. Remove old pages and insert new pages as indicated below:

Remove pages—	**Insert pages—**
i through v	i through vi
2-1 through 2-20	2-1 through 2-29

3. File this transmittal sheet in front of the publication for reference purposes.

DISTRIBUTION UNLIMITED

Change
No 2

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 2 December 1983

AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING 1/4-TON TRUCKS

This change gives new procedures for rigging the M151 truck on an 8-foot modular platform, gives new procedures for rigging the M151 truck with the AN/VSC-2 radio on a 12-foot modular platform, updates and clarifies the rigging procedures for the M151 for LAPE airdrop, and adds the LAPE airdrop procedures for the M151 with the AN/VRC-19 radio set.

FM 10-510/TO 13C7-2-451, 15 May 1975, is changed as follows:

1. Remove old pages and insert new pages as indicated below:

Remove pages--	Insert pages--
i through v	i through v
1-1	1-1
2-1 through 2-13	2-1 through 2-20
4-1 through 4-9	4-1 through 4-15
11-1 and 11-2	11-1 and 11-2
11-5 through 11-14	11-5 through 11-20
A-1	References-1

2. New or changed material is identified by a vertical bar in the margin opposite the changed material. Changes to illustrations are indicated by miniature pointing hands.

3. File this transmittal sheet in front of the publication for reference purpose.

DISTRIBUTION UNLIMITED

FIELD MANUAL
NO 10-510
TECHNICAL ORDER
NO 13C7-2-451

C3, FM 10-510/TO 13C7-2-451
*** FM 10-510/TO 13C7-2-451**

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 15 May 1975

AIRDROP OF SUPPLIES AND EQUIPMENT RIGGING 1/4-TON TRUCKS

TABLE OF CONTENTS

		Paragraph	Page
	LIST OF ILLUSTRATIONS		vi
CHAPTER 1.	INTRODUCTION		
	Scope	1-1	1-1
	Special Considerations	1-2	1-1
	Recommended Changes	1-3	1-1
CHAPTER 2.	RIGGING M151 TRUCK FOR LOW-VELOCITY AIRDROP		
Section I.	RIGGING TRUCK WITHOUT ACCOMPANYING LOAD		
	Description of Load	2-1	2-1
	Preparing Platform	2-2	2-1
	Building and Placing Honeycomb Stacks	2-3	2-3
	Preparing Truck	2-4	2-6
	Installing Load Cover	2-5	2-11
	Positioning Truck	2-6	2-11
	Installing Drive-Off Aid	2-7	2-11
	Installing Lashings	2-8	2-13
	Safetying Suspension Slings	2-9	2-14
	Stowing Cargo Parachutes	2-10	2-15
	Installing Extraction System	2-11	2-17
	Installing Release System	2-12	2-29
	Positioning Extraction Parachute	2-13	2-20
	Marking Rigged Load	2-14	2-20
	Equipment Required	2-15	2-20
Section II.	RIGGING TRUCK WITH ACCOMPANYING LOAD		
	Description of Load	2-16	2-24
	Preparing and Rigging Truck	2-17	2-24
	Stowing Accompanying Load	2-18	2-24
	Marking Rigged Load	2-19	2-26
	Equipment Required	2-20	2-26
Section III.	RIGGING TRUCK WITH RADAR JAMMING SYSTEM (RJS)		
	Description of Load	2-21	2-27
	Preparing and Rigging Truck	2-22	2-27
	Stowing RJS	2-23	2-27
	Marking Rigged Load	2-24	2-29
	Equipment Required	2-25	2-29

***This manual supersedes FM 10-510/TO 13C7-2-451, 31 December 1973.**

		Paragraph	Page
CHAPTER 3.	RIGGING M151 TRUCK WITH COMMUNICATIONS EQUIPMENT		
	General	3-1	3-1
	Description of Load	3-2	3-1
	Stowing Communications Equipment	3-3	3-1
	Stowing Gasoline Cans	3-4	3-3
	Marking Rigged Load	3-5	3-3
	Equipment Required	3-6	3-3
CHAPTER 4.	RIGGING M151 TRUCK WITH AN/VSC-2 RADIO SET ON 12-FOOT MODULAR PLATFORM		
	Description of Load	4-1	4-1
	Preparing Platform	4-2	4-2
	Building and Placing Strongbacks	4-3	4-3
	Building and Placing Honeycomb Stacks	4-4	4-4
	Preparing Truck	4-5	4-5
	Positioning Truck	4-6	4-8
	Installing Lashings	4-7	4-9
	Safetying Suspension Slings	4-8	4-10
	Stowing Cargo Parachutes	4-9	4-11
	Installing Extraction System	4-10	4-11
	Installing Release System	4-11	4-12
	Positioning Extraction Parachute	4-12	4-12
	Marking Rigged Load	4-13	4-13
	Equipment Required	4-14	4-13
CHAPTER 5.	RIGGING M151 TRUCK WITH AN/URN-19 POSITION-FIXED NAVIGATION SYSTEM ON MODULAR PLATFORM		
	General	5-1	5-1
	Description of Load	5-2	5-1
	Stowing Computer Display Unit and Receiver Unit	5-3	5-1
	Stowing Antenna and Antenna Mount	5-4	5-1
	Marking Rigged Load	5-5	5-1
	Equipment Required	5-6	5-1
CHAPTER 6.	RIGGING M151 TRUCK WITH M36 RADAR CHRONOGRAPH SET		
	General	6-1	6-1
	Description of Load	6-2	6-1
	Modifying Truck	6-3	6-1
	Preparing Truck	6-4	6-1
	Stowing Radar Chronograph Set	6-5	6-1
	Marking Rigged Load	6-6	6-1
	Equipment Required	6-7	6-3
CHAPTER 7.	RIGGING M151 TRUCK WITH DETECTOR UNIT CHEMICAL AGENT AUTOMATIC ALARM VG PORTABLE XM8		
	General	7-1	7-1
	Description of Load	7-2	7-1
	Preparing Truck	7-3	7-1

		Paragraph	Page
	Stowing Cargo Parachutes	7-4	7-1
	Marking Rigged Load	7-5	7-1
	Equipment Required	7-6	7-2
CHAPTER 8.	**RIGGING M151 TRUCK WITH MACHINEGUN ON MODULAR PLATFORM**		
	General	8-1	8-1
	Description of Load	8-2	8-1
	Stowing Machinegun	8-3	8-1
	Marking Rigged Load	8-4	8-1
	Equipment Required	8-5	8-1
CHAPTER 9.	**RIGGING M151 TRUCK WITH GYRO AZIMUTH THEODOLITE AND ACCOMPANYING EQUIPMENT ON MODULAR PLATFORM**		
	General	9-1	9-1
	Description of Load	9-2	9-1
	Preparing Load	9-3	9-1
	Stowing Equipment	9-4	9-1
	Preparing Truck	9-5	9-4
	Installing Load Cover	9-6	9-5
	Stowing Cargo Parachute	9-7	9-5
	Marking Rigged Load	9-8	9-5
	Equipment Required	9-9	9-5
CHAPTER 10.	**RIGGING M38A1 TRUCK ON 12-FOOT MODULAR PLATFORM**		
	Description of Load	10-1	10-1
	Modifying Truck	10-2	10-1
	Preparing Truck	10-3	10-1
	Installing Suspension Slings	10-4	10-5
	Preparing Platform	10-5	10-7
	Preparing and Positioning Honeycomb	10-6	10-7
	Positioning Truck	10-7	10-7
	Installing Lashings	10-8	10-9
	Stowing Cargo Parachutes	10-9	10-9
	Installing Extraction System	10-10	10-10
	Installing Release System	10-11	10-10
	Positioning Extraction Parachute	10-12	10-10
	Marking Rigged Load	10-13	10-10
	Equipment Required	10-14	10-10
CHAPTER 11.	**RIGGING M151 TRUCK ON 12-FOOT PLATFORM FOR LAPE AIRDROP**		
Section I.	**RIGGING M151 TRUCK WITHOUT AN/VRC-49 RADIO SET**		
	[redacted]	11-1	11-1
		11-2	11-1
		11-3	11-2
		11-4	11-2
		11-5	11-6

REMOVED: 95 MESSAGE TERMINATION OF LAPES

		Paragraph	Page
	REMOVED: 95 MESSAGE TERMINATION OF LAPES	11-6	11-6
		11-7	11-6
		11-8	11-6
		11-9	11-10
		11-10	11-10
		11-11	11-10
		11-12	11-10
Section II.	**RIGGING M151 TRUCK WITH AN/VRC-49 RADIO SET**		
	REMOVED: 95 MESSAGE TERMINATION OF LAPES	11-13	11-14
		11-14	11-14
		11-15	11-14
		11-16	11-20

REFERENCES **References-1**

LIST OF ILLUSTRATIONS

Figure		Page
2-1.	Platform prepared	2-2
2-2.	Honeycomb stacks prepared	2-3
2-3.	Honeycomb stacks positioned on platform	2-4
2-4.	Front and rear views of honeycomb stacks positioned on platform	2-5
2-5.	Windshield padded and secured	2-6
2-6.	Honeycomb positioned on the front of the truck	2-7
2-7.	Mirror padded, and honeycomb and steering wheel secured	2-8
2-8.	Steering wheel protector positioned and secured	2-9
2-9.	Rear of truck prepared	2-10
2-10.	Load cover and drive-off aids installed	2-12
2-11.	Lashings installed	2-13
2-12.	Suspension slings safetied, and deadman's tie installed	2-14
2-13.	G-11A or G-11B cargo parachute stowed	2-15
2-14.	G-12D cargo parachutes stowed	2-16
2-15.	PEFTC extraction system installed	2-17
2-16.	SL/CS extraction system installed	2-18
2-17.	M-1 cargo parachute release assembly installed	2-19
2-18.	Truck completely rigged for low-velocity airdrop	2-20
2-19.	Accompanying load stowed	2-25
2-20.	RJS secured	2-27
2-21.	Honeycomb secured over RJS	2-28
3-1.	Radio sets stowed	3-2
3-2.	AN/MRC-95 radio set stowed	3-3
3-3.	Gasoline cans positioned and secured	3-3
4-1.	Radio equipment ready for use	4-1
4-2.	Platform prepared	4-2
4-3.	Strongback positioned and secured	4-3
4-4.	Honeycomb stacks positioned	4-4
4-5.	Teletypewriter stowed	4-5
4-6.	Gasoline can, water can, and antenna stowed	4-6
4-7.	Radio sets secured	4-7
4-8.	Front of vehicle prepared	4-8
4-9.	Truck lashed to platform	4-9
4-10.	Suspension slings safetied	4-10
4-11.	Parachutes stowed	4-11
4-12.	PEFTC installed	4-12
4-13.	Completely rigged truck with AN/VSC-2 radio set	4-13
5-1.	AN/URN-19 position-fixing navigation system stowed	5-2
6-1.	Components of M36 radar chronograph set	6-2
6-2.	Radar chronograph installation bracket (jeep mounting) installed in truck	6-3
6-3.	Honeycomb positioned over auxiliary feet in bed of truck and plywood positioned around battery box	6-4

Figure		Page
6-4.	Honeycomb positioned on top of plywood and in floor on the assistant driver's side of truck	6-5
6-5.	Honeycomb positioned on top of battery box and felt positioned on honeycomb in bed of truck	6-6
6-6.	Radar test receiver, telescope, and chronograph automatic reliability rater stowed	6-6
6-7.	Microphone, instrument light, and cable stowed	6-6
6-8.	Honeycomb positioned over components	6-7
6-9.	Tripod stowed	6-8
6-10.	Generator stowed	6-9
6-11.	Radar chronograph stowed	6-10
7-1.	Alarm unit secured	7-1
7-2.	Detector secured	7-2
7-3.	Honeycomb and felt positioned on hood	7-3
7-4.	Construction details for stowage platform	7-3
7-5.	Stowage platform secured	7-4
8-1.	Machinegun stowed	8-2
9-1.	Construction details for generator box	9-2
9-2.	Theodolite prepared	9-3
9-3.	Base for Theodolite container	9-3
9-4.	Theodolite container stowed	9-3
9-5.	Surveying set stowed	9-4
9-6.	Equipment stowed	9-5
9-7.	Components of truck stowed	9-6
9-8.	Cargo parachute stowed	9-6
10-1.	Truck modified	10-2
10-2.	Construction details for battery box support	10-3
10-3.	Truck prepared	10-4
10-4.	Engine restraint installed	10-5
10-5.	Platform prepared and honeycomb stacks positioned	10-6
10-6.	Lashings 1 and 2 installed	10-7
10-7.	Lashings 1, 2, 5, 7, and 9 installed	10-8
10-8.	Lashings 11 and 12 installed	10-9
10-9.	Cargo parachutes stowed	10-11
10-10.	Completely rigged load	10-12
11-1.	Platform prepared and honeycomb stacks positioned	11-3
11-2.	Truck prepared	11-5
11-3.	Truck positioned and lashings 1 through 5 installed	11-7
11-4.	Lashings 6 through 21 installed	11-8
11-5.	Attitude control bar installed	11-9
11-6.	Extraction system installed	11-11
11-7.	Truck rigged for LAPE airdrop	11-12
11-8.	Radios and antennas secured	11-15
11-9.	Honeycomb and strap positioned	11-16
11-10.	Five-gallon cans secured	11-17
11-11.	Top frame and duffle bags secured	11-18
11-12.	Loose items stowed in canvas top	11-19