

# LANCE

## LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR SHIPMENT OF MOBILITY KIT, GUIDED MISSILE LAUNCHER, M234 IN TRUCK, CARGO, 5 - TON (TACTICAL)

### INDEX

<u>ITEM</u>	<u>PAGE (S)</u>
GENERAL NOTES, AND MATERIAL SPECIFICATIONS-----	2
1-UNIT LOAD-----	3
2-UNIT LOAD-----	4

REVISIONS				DRAFTSMAN	PROJ. ENG.	DRSMI-SP
1	APR 82	<i>RAH</i>	<i>John L. Spang</i>	<i>Diw</i> / <i>pt</i>	<i>MWD</i> / <i>Umw</i>	<i>GR</i> / <i>6H</i>
				CHECKER	LOS ENGINE OFFICE	
				<i>GRG</i> / <i>Rstt</i>	<i>W. H. Ornt</i>	
				APPROVED, U.S. ARMY MISSILE COMMAND		
				<i>[Signature]</i>		
				APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)		
				<i>[Signature]</i>		
				U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		
				U. S. ARMY DARCOM DRAWING		
				JUNE 1981		
				CLASS	DIVISION	DRAWING
				19	48	7597
						FILE
						GSE 17LC1

**DO NOT SCALE**

## GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1.
- B. THIS DRAWING COVERS PROCEDURES APPLICABLE TO THE TRANSPORT OF THE LANCE MOBILITY KIT IN TRUCK, CARGO, 5-TON. IF OTHER TYPES OF CARGO ITEMS ARE TRANSPORTED WITH THAT SHOWN, THE TOTAL LOAD MUST BE COMPATIBLE AND THE ADDED ITEMS MUST BE SECURED WITH WEB STRAP ASSEMBLIES, AS REQUIRED TO PREVENT DISPLACEMENT DURING TRANSPORTATION.
- C. THE DEPICTED PROCEDURES APPLY TO THE VEHICLE DESIGNATED HEREIN, MODIFIED TO INCLUDE THE UNIVERSALLY APPLICABLE "TIEDOWN KIT" WHICH CONSISTS OF TIEDOWN FITTINGS OR ANCHOR DEVICES FOR INSTALLATION IN/ON CARGO BEDS, AND WEB STRAP TIEDOWN ASSEMBLIES.
- D. ONLY THE CARGO BODY OF THE TACTICAL VEHICLE HAS BEEN SHOWN HEREIN, TO PREVENT DISTRACTION FROM THE DELINEATED LOADING AND TIEDOWN PROCEDURES, AND IS SHOWN IN OUTLINE FORM WITH THE STRUCTURAL PORTIONS OMITTED AS NECESSARY TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
- E. WHENEVER POSSIBLE, A LOAD SHOULD BE CENTERED Laterally IN CARRYING VEHICLE TO PROVIDE FOR EQUAL ANGLE HOLD DOWN BY THE SECURING WEB STRAP ASSEMBLIES. LOCATE THE LADING LENGTHWISE IN A VEHICLE AS SHOWN TO PROVIDE FOR PROPER TIE DOWN.
- F. WEB STRAP TIEDOWN ASSEMBLIES MUST BE SECURELY HOOKED INTO THE ANCHORING DEVICES ON THE TRANSPORTING VEHICLE, AND FIRMLY TENSIONED. EXERCISE CARE DURING STRAP APPLICATION; AVOID TWISTS IN STRAPS, INSURE STRAIGHT LAY OF STRAP ON THE TAKE-UP SPOOL OF RATCHET WHEN TENSIONING, AND TIE BACK THE LOOSE END OF A STRAP AFTER TENSIONING IS COMPLETED. A TENSIONED STRAP MUST FORM AT LEAST ONE AND ONE-HALF COMPLETE WRAPS ON THE TAKE-UP SPOOL OF THE TENSIONING RATCHET. ADDITIONALLY, WHERE TIEDOWN STRAPS CROSS EACH OTHER, AS SHOWN IN THE LOAD VIEWS, EACH STRAP SHALL BE INSTALLED OVER OR UNDER ANOTHER STRAP SO THAT WHEN ALL STRAPS ARE TENSIONED, NO PRESSURE WILL BE BROUGHT TO BEAR ON ANY STRAP BY ANOTHER STRAP.
- G. ADJUSTABLE SCUFF SLEEVES PROVIDED ON WEB STRAP ASSEMBLIES WILL BE LOCATED TO PROVIDE A PAD WHERE STRAPS PASS OVER SHARP EDGES OF ITEM. METAL PARTS OF A STRAP ASSEMBLY SHOULD BE LOCATED SO AS TO AVOID CONTACT WITH THE ITEM. CAUTION: DURING WEB STRAP TIEDOWN INSTALLATION, AVOID CONTACT WITH ALL ELECTRICAL WIRING, VEHICLE CONTROLS AND OTHER APPURTENANCES.
- H. LADING DATA:  
ITEM DIMENSIONS----- 10'-2" LONG X 6'-9" WIDE X 48" HIGH.  
ITEM GROSS WEIGHT----- 1,970 LBS ( APPROX ).
- J. WHEN INSTALLING WEB STRAP ASSEMBLIES THEY WILL BE INSTALLED AT APPROXIMATELY THE SAME ANGLES THAT ARE SHOWN IN THIS DRAWING.

## MATERIAL SPECIFICATIONS

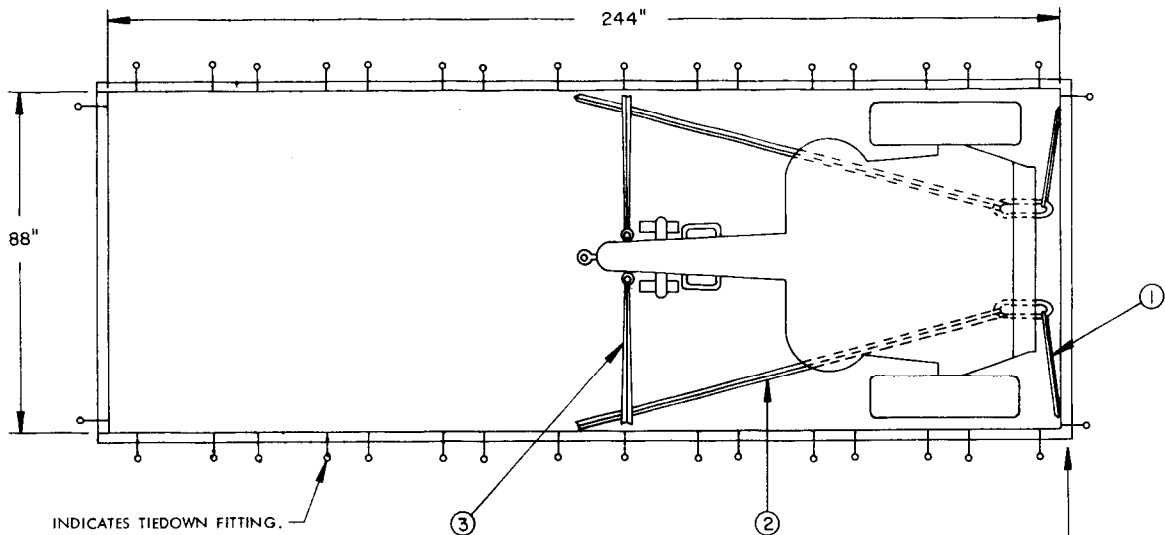
STRAP----- : WEBBING, UNIVERSAL TIEDOWN, NSN 5340-00-980-9277, PN 10900880.

ANTI-CHAFING MATERIAL----- : CANVAS, BURLAP, TAPE OR ANY OTHER SUITABLE MATERIAL.

## REVISION

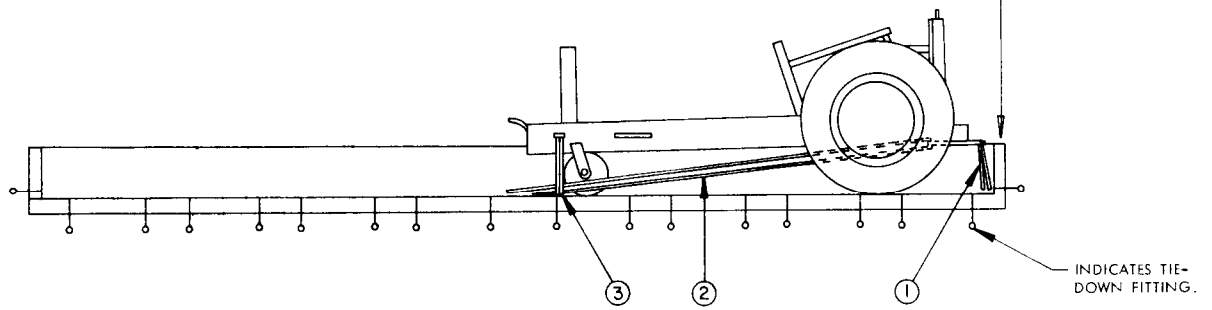
REVISION NO. 1, DATED APRIL 1982, CONSISTS OF:

1. CHANGING LADING DIMENSIONS.
2. CHANGING LOCATIONS AND APPLICATION OF TIEDOWN STRAP ASSEMBLIES.
3. UPDATING GENERAL NOTES.



PLAN VIEW

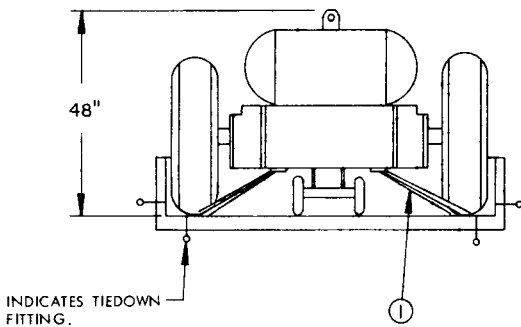
FORE END OF TRUCK.



ELEVATION VIEW

KEY NUMBERS

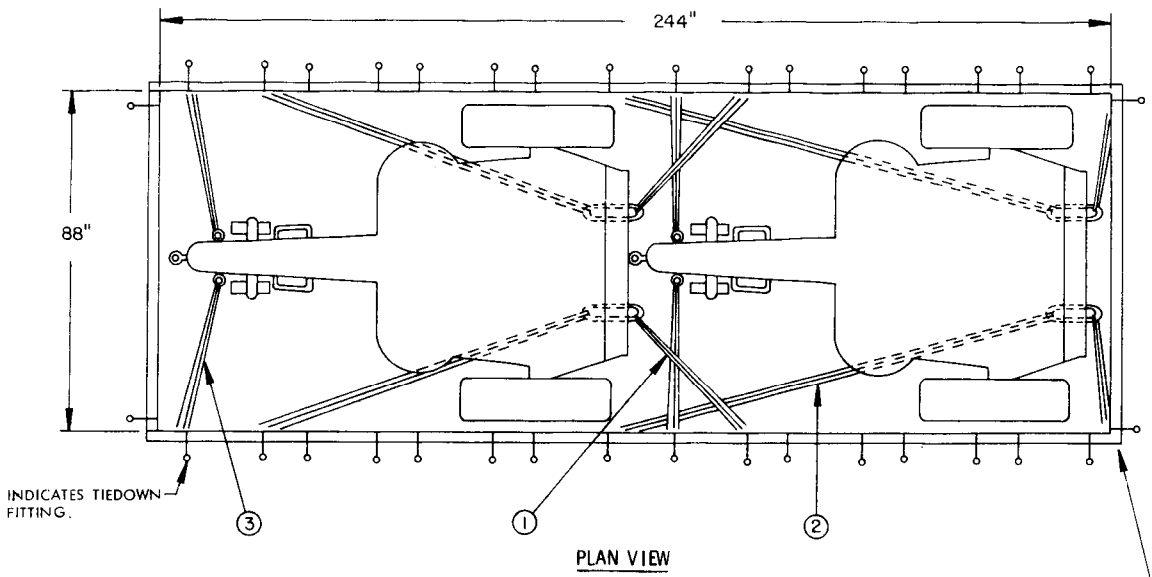
- ① WEB STRAP TIEDOWN ASSEMBLY ( 2 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK THRU A TIEDOWN DEVICE AT THE REAR OF THE MOBILITY KIT AND BACK TO THE TRUCK TIEDOWN FITTING.
- ② WEB STRAP TIEDOWN ASSEMBLY ( 2 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK THRU THE TIEDOWN DEVICE BETWEEN THE WHEELS OF THE MOBILITY KIT AND BACK TO THE TRUCK TIEDOWN FITTING.
- ③ WEB STRAP TIEDOWN ASSEMBLY ( 2 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK TO THE EYEBOLT ATTACHMENT FOR THE SAFETY CHAIN ON THE MOBILITY KIT.



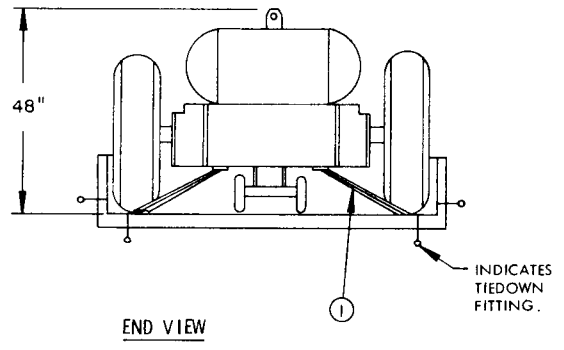
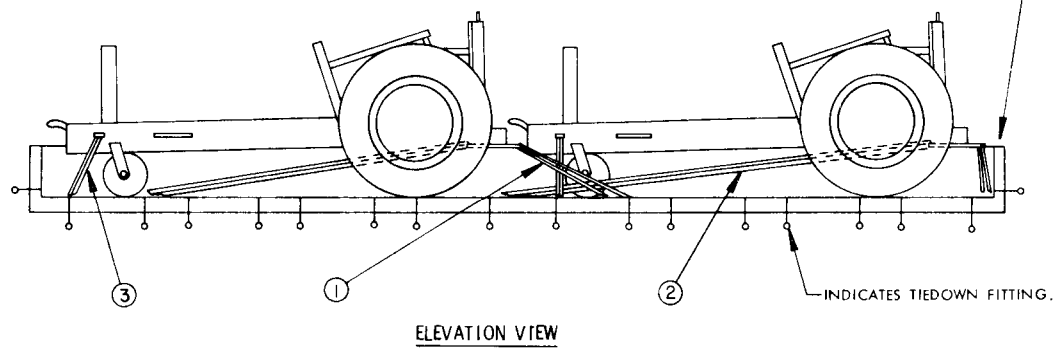
END VIEW

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT ( APPROX )
MOBILITY KIT	1	1,970 LBS



FORE END OF TRUCK.



KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY ( 4 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK THRU A TIEDOWN DEVICE AT THE REAR OF THE MOBILITY KIT AND BACK TO THE TRUCK TIEDOWN FITTING.
- ② WEB STRAP TIEDOWN ASSEMBLY ( 4 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK THRU THE TIEDOWN DEVICE BETWEEN THE WHEELS OF THE MOBILITY KIT AND BACK TO THE TRUCK TIEDOWN FITTING.
- ③ WEB STRAP TIEDOWN ASSEMBLY ( 4 REQD ). INSTALL TO EXTEND FROM A TIEDOWN FITTING ON THE TRUCK TO THE EYEBOLT ATTACHMENT FOR THE SAFETY CHAIN ON THE MOBILITY KIT.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT ( APPROX )</u>
MOBILITY KIT -----	2 -----	3,940 LBS