MOVEMENTS CONTROL AGENCY,
U. S. ARMY TRANSPORTATION
COMMAND EUROPE
SIGNED

TC CMDG
DATE

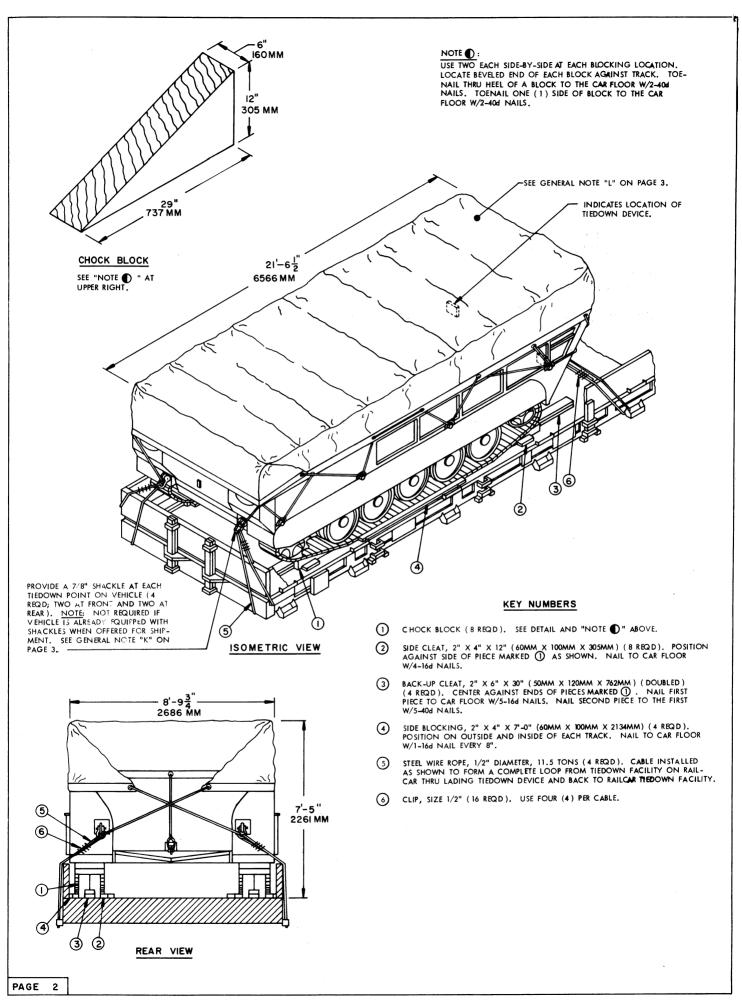
TC CMDG

# LANCE

LOADING AND BRACING ON GERMAN RAILCAR OF LAUNCHER, GUIDED MISSILE, CARRIER MOUNTED, XM752

COMMANDING OFFICER, SAYAMIA ABILTY DEPO	12	AMERI-LEBIAS)	Sen En	man D/A	/u,	O D.
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ARMY MISSILE COMMAND	1		34	72	JUN	1
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL COMMAND						
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DO NOT SCALE



	LIST OF RAILCARS THAT MAY BE USED FOR SHIPMENTS						
	RAILCARS	NO. OF	TOTAL WEIGHT OF ITEMS				
*	RMS 31	1	15,607 LBS ( 7079 KG )				
*	RMMS 33	1	15,607 LBS ( 7079 KG)				
*	RLMMS 56	1	15,607 LBS ( 7079 KG)				
*	SM 24	1	15,607 LBS ( 7079 KG)				
*	SSLMAS 53	2	31,214 LBS (14158 KG)				
	SSY 45	1	15,607 LBS ( 7079 KG)				
	SSYM 46	1	15,607 LBS ( 7079 KG)				
	XLM 57	1	15,607 LBS ( 7079 KG )				

\* INDICATES THE PREFERRED CARS TO BE USED FOR SHIPMENT OF THE SPECIFIED ITEM. OTHER LISTED CARS CAN BE USED IF PRE-FERRED CARS ARE NOT AVAILABLE.

BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
2" X 4"	36	24			
2" X 6"	20	20			
6" X 12"	10	60			
NAILS	NO. REQD	POUNDS			
16d (3-1/2")	72	1-3/4			
40d (5")	52	3-1/4			
ROPE, STEEL WIRE, 1/2" DIA					

### MATERIAL SPECIFICATIONS

LUMBER: DOUGLAS FIR OR COMPARABLE LUMBER WITH STRAIGHT GRAIN AND FREE OF MATERIAL DEFECTS. REF: FED SPEC MM-L-751.

NAILS-: COMMON, CEMENT COATED OR CHEMICALLY ETCHED.
REF: FED SPEC FF-N-105.
ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.

ROPE -: STEEL, WIRE, PLAIN, PREFORMED, REGULAR LAY, 11.5 TONS, 6 X 19, FLEXIBLE IWRC, MACWHYTE WIRE ROPE CO (OR EQUAL).

REF: FED SPEC RR-W-410.

CLIPS -: "U" BOLT, CROSBY, HEAVY DUTY (OR EQUAL).
REF: FED SPEC FF-C-450, TYPE I, CLASS 1.

#### GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH
- B. THE OUTLOADING PROCEDURES SHOWN HERBIN ARE APPLICABLE TO GERMAN RAILCARS AND OTHER FOREIGN RAIL CARS OF SIMILAR DESIGN AND CONSTRUC-TION.
- C. THE LOAD AS SHOWN IS BASED ON A GERMAN RAILCAR (RLMMS) 40'-11" (12471MM) LONG BY 9'-1-1/2" (2781MM) WIDE WITH 18" (457MM) HIGH CAR SIDES. ADDITIONAL UNITS OR OTHER ITEMS MAY BE LOADED ON THE CAR, WITH THE VIEW TOWARD FULL UTILIZATION OF CARRIER EQUIPMENT.
- D. LADING DATA

DIMENSIONS -------21'-6-1/2" (6566MM) LONG X 8'-9-3/4" (2686MM)
WIDE X 7'-5" (2261MM) HIGH.

GROSS WEIGHT ---- 15,607 POUNDS (APPROX ) (7079 KG ). (W/O FUEL)

- E. REMOVE ALL POSTS FROM THE SIDES OF THE CAR AND PLACE IN RACKS UNDER THE CAR
- F. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEN DUNNAGE IS NAILED TO THE FLOOR OF THE TRANSPORTING VEHICLE, OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- G. ALL HAND BRAKES ON VEHICLE MUST BE "SET" WITH HAND LEVERS WIRE TIED OR BLOCKED, AND GEAR SHIFT LEVERS OF MOTOR VEHICLES EQUIPPED WITH CONVENTIONAL OR AUTOMATIC TRANSMISSIONS MUST BE PLACED AND WIRE TIED IN NEUTRAL POSITION.
- H. CAUTION: DURING WIRE ROPE INSTALLATION AVOID CONTACT WITH ALL ELECTRICAL WIRING, VEHICLE CONTROLS AND OTHER APPURTENANCES.
- J. WIRE ROPE CABLE MUST BE TENSIONED SUFFICIENTLY TO CAUSE SLIGHT VEHICLE BODY DEPRESSION. TENSIONING CAN BE ACCOMPLISHED BY EMPLOYING TWO (2) CABLE "GRIPPERS" AND AN APPLICABLY SIZED "COME-A-LONG" TYPE MECHANICAL HOIST.
- K. MORE DISTANCE MAY BE REQUIRED BETWEEN THE DRILLED PADS AT THE OPEN END OF A SHACKLE SO THAT IT WILL FIT PROPERLY OVER THE THICKNESS OF THE TOWING/TIEDOWN BRACKET ON THE VEHICLE. TO PROVIDE THE NEEDED CLEARANCE, EQUAL AMOUNTS OF MATERIAL MAY BE REMOVED FROM THE SHACKLE PADS BY GRINDING OR MACHINING.
- L. CAUTION: PRIOR TO SHIPPING THE DESIGNATED ITEM, THE TACTICAL COVER WILL BE PROPERLY STORED ON THE VEHICLE. THE VEHICLE TRANSIT COVER (PART NUMBER 10162360) WILL BE INSTALLED, AS SHOWN IN THE LOAD VIEWS, TO PROVIDE WEATHER PROTECTION; THE TACTICAL COVER WILL NOT BE USED FOR THIS PURPOSE. IF A SLING IS USED FOR HANDLING THE LAUNCHER, AND THE TRANSIT COVER IS INSTALLED, THE ENDS OF THE COVER WILL BE TURNED BACK TO EXPOSE THE LIFTING LOOPS FOR ATTACHMENT OF THE SLING. THE COVER WILL BE RESECURED AS SHOWN PRIOR TO MOVEMENT OF THE LOAD.

#### REVISIONS

REVISION NO. 1, DATED JUNE 1972, CONSISTS OF:

- 1. SHOWING THE ITEM WITH A TRANSIT COVER INSTALLED.
- 2. UPDATING GENERAL NOTES.
  3. ADDING FEDERAL SPECIFICATION FOR CLIPS.
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## LOAD AS SHOWN

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