

**551-88H-1901
Load Vehicles on Flatcar
Status: Approved**

Security Classification: U - Unclassified

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the Transportation School Fort Eustis, VA 23608 foreign disclosure officer.

This training product can be used to instruct international military students from all approved countries without restrictions.

Conditions: Assigned as a Cargo Checker/Handler, Soldier is required to load vehicles on flatcar. Given a completed risk assessment, all applicable publications, forms, and records, tools, materials, personnel, equipment in all weather conditions day or night in an operational environment. Some iterations of this task should be performed in MOPP 4.

Standards: On orders; Soldier will load vehicles on flatcar IAW TC 4-13.17. Comply with all warnings, cautions, and notes in all references. Soldier must perform this task with 100% compliant using GO or NO GO criteria without injury or damage to equipment.

Special Conditions: None

Safety Risk: Medium

MOPP 4: Sometimes

Task Statements

Cue: Assigned as a Cargo Checker/Handler, Soldier is required to load vehicles on flatcar.

DANGER

None

WARNING

MODIFICATION HAZARD

Unauthorized modifications, alterations or installations of or to this equipment are prohibited and are in violation of AR 750-10. Any such unauthorized modifications, alterations or installations could result in death, injury or damage to the equipment.

HIGH PRESSURE HYDRAULIC SYSTEM HAZARDS

Hydraulic systems can cause serious injuries if high pressure lines or equipment fail. Never work on hydraulic systems or equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment, and who can give first aid. A second person should stand by controls to turn off hydraulic pumps in an emergency. When the technicians are aided by the operators, the operators must be warned about dangerous areas.

MOVING MACHINERY HAZARDS Be very careful when operating or working near moving machinery.

Running engines, rotating shafts, and other moving machinery parts could cause personal injury or death.

ELECTRICAL HAZARDS

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Do not be misled by the term "low voltage." Potentials as low as 50 volts may cause death under adverse conditions". Be careful not to contact 115-Vac input connections when installing or operating this equipment. Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through the body.

CAUTION

When using the ramp, drivers should avoid braking suddenly to prevent skidding.

During the loading/unloading of heavy tracked vehicles, a locomotive must be coupled to the train with all brakes applied. For light vehicles, it will suffice to block the wheels of the wagons with the ordinary stop blocks used by the railways.

Remarks: None

Notes: None

Performance Steps

1. Place spanners securely in place to bridge the distance between flatcars (see Figure 3-66).
2. Drive vehicles to ramp for loading.
3. Follow the ground guide's direction on the ramp and on each railcar.

Note: Before loading vehicles on flatcars ground guides must be positioned, one per flatcar and one on either side of the flatcar. Personnel will not walk backwards on flatcars.

4. Load all vehicles from the rearmost car and position them forward to the assigned position (see Figure 3-66).

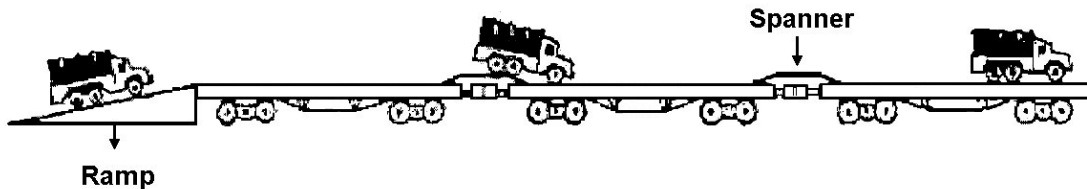


Figure 3-66
Circus Method Loading Vehicles

5. Set handbrake on all wheeled vehicles, wire and block levers in the disengage position on all tracked vehicles.
6. Disconnect trailers from vehicles if directed.
Note: If trailers are disconnected, lower the landing legs on semi-trailers and lower support wheels on small trailers.
7. Apply lashing (chain) materials to vehicles.
Note: Lashings (chains) are not tightened completely until all blocks and chocks are nailed in place (see Figure 3-67 and 3-68).
8. Report activities to supervisor.

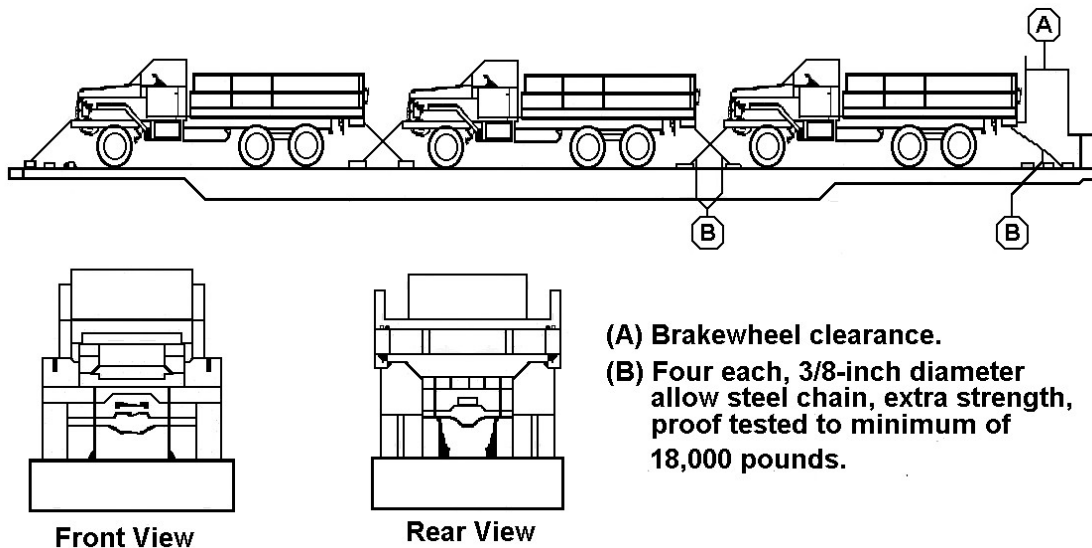


Figure 3-67
Chain Securement of Three-Axle Vehicles

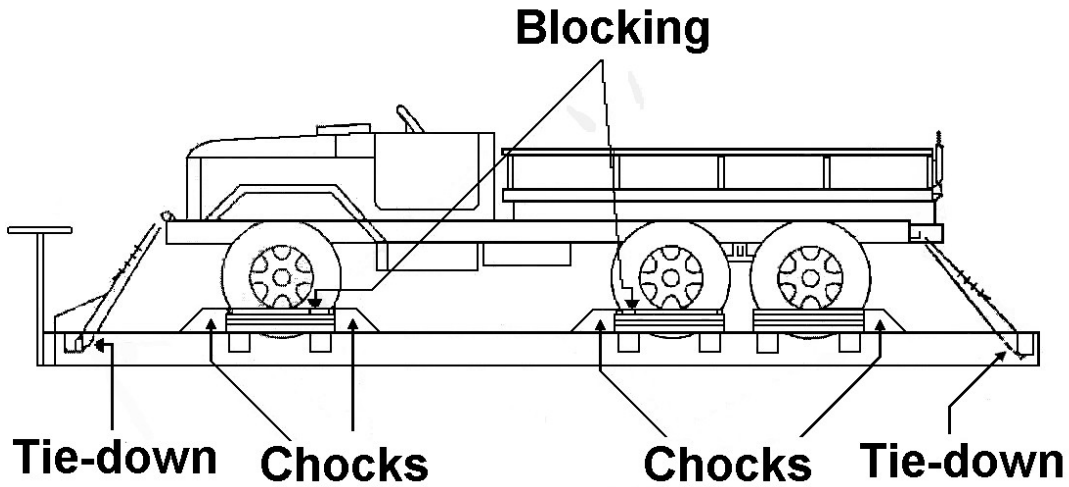


Figure 3-68
Blocking and Bracing of Three-Axle Vehicles

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier a GO if all performance measures are correctly completed/pass (P). Score the Soldier a NO-GO if any of the performance measures are missed or incorrectly performed/fail (F).

Evaluation Preparation: Test this task in with applicable training material. Ensure Soldier understands why this task is important to support the overall training objective.

Setup: Test this task in in accordance with prescribed references or Technical Manual (TM).

Brief Soldier: Tell the Soldiers adhere to all Safety precautions when performing the task listed.

Note: Ensure that all required equipment to perform this task is available.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Placed spanners securely in place to bridge the distance between flatcars.			
2. Drove vehicles to ramp.			
3. Followed the ground guide's direction on the ramp and on each flatcar.			
4. Loaded all vehicles from the rearmost car and moved them forward to the assigned position.			
5. Set handbrake on wheeled vehicles, wired and blocked levers on tracked vehicles.			
6. Disconnected trailer if directed.			
7. Applied securing materials to vehicles.			
8. Reported activities to supervisor.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	TC 4-13.17	Cargo Specialist's Handbook	Yes	Yes	
	TEA PAM 55-19	Tiedown Handbook for Rail Movements	Yes	No	
	TM 55-2200-001-12	TRANSPORTABILITY GUIDANCE FOR APPLICATION OF BLOCKING, BRACING AND TIEDOWN MATERIALS FOR RAIL TRANSPORT (REPRINTED W/BASIC INCL C1-4)	Yes	No	

TADSS : None

Equipment Items (LIN): None

Materiel Items (NSN) :

Step ID	NSN	LIN	Title	Qty
1.	8465-00-001-6487	B59567	Belt, Individual Equipment	1
1.	2220-00-263-8935	Q99550	Railway Car, Flat 100 Foot 12WH	1
1.	2220-00-287-8899	Q99824	Railway Car, Flat, 80 Tons, General Freight	1
1.	2320-00-050-8913	X40794	Truck Cargo: Drop Side 5 Ton 6x6 W/E M813A1	1
1.	2320-00-050-8984	X59326	Truck Tractor M818	1
1.	2320-01-097-0260	T39518	Truck Cargo: Tactical 8x8 Heavy Expanded Mobility W/Winch W/Light Crane: M977	1
1.	2320-01-107-7155	T61494	Truck Utility: Cargo/Troop Carrier 1-1/4 Ton 4x4 W/E (HMMWV): M998	1
1.	8405-01-395-0940	C33606	Coveralls, Utility, XX-Small	1
1.	8415-00-268-7868	J68064	Gloves Leather: Men's Work Cream Color Strap Closure Gauntlet Cuff, Size 5	1
1.	8415-00-889-3767		Helmet, Safety, Yellow, Size 6-1/2 to 8	1
1.	8470-00-161-9411	K34733	Helmet, Ground Troops' (DISCONTINUED-USE 8470-00-255-8579)	1
1.	4240-00-022-2946	HA4006	Protector, Hearing	1
1.	8430-00-624-3135	C08735	Boots, Safety, Men's, Size 10R	1

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. It is the responsibility of all Soldiers and DA civilians to protect the environment from damage. AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) and ensure all training procedures; materials and doctrine include sound environmental practices and considerations.

The Army's environmental vision is to be a national leader in an environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. This Training Support Package meets this standard.

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Safety: In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. In a training environment, leaders must perform risk management in accordance with ATP 5-19, Risk Management. Leaders will complete a DD Form 2977 DELIBERATE RISK ASSESSMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC), as well as any other variables.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task. (a) Take personal responsibility. (b) Practice safe operations. (c) Recognize unsafe acts and conditions. (d) Take action to prevent accidents. (e) Report unsafe acts and conditions.

No food or drink is allowed near or around electrical equipment (CPU, file servers, printers, projectors, etc.) due to possible electrical shock or damage to equipment. Exercise care in personal movement in and through such areas. Avoid all electrical cords and associated wiring. In event of electrical storm, you will be instructed to power down equipment.

Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW ATP 3-11.32, NBC Protection, ATP 3-11.32, CBRN Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

Knowledges :

Knowledge ID	Knowledge Name
K-551-H-0171	Knowledge of Rail Loading operations

Skills :

Skill ID	Skill Name
S-551-H-0124	Ability to position blocking and bracing materials
S-551-H-0137	Ability to perform rail loading operations
S-551-H-0123	Ability to drive military vehicles
S-551-H-0018	Ability to ground guide vehicle

ICTL Data : None