

Summary Report for Individual Task  
551-88M-1382  
Perform Loading/Unloading of a Tracked/Wheeled Vehicle onto/from a Semitrailer  
Status: Approved

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

**Destruction Notice:** None

**Foreign Disclosure: FD5** - This product/publication has been reviewed by the product developers in coordination with the Fort Lee, VA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

**Condition:** In an operational environment, you are the operator of a truck-tractor semitrailer combination tasked to transport a payload vehicle. The semitrailer has been properly parked and chocked against an alley or loading dock for this operation. You are provided a tractor-semitrailer combination, payload vehicle with operator, work gloves, all tiedown equipment to include chains and loadbinders, an alley dock or loading ramp, and load measuring tools (either a 25-foot retractable tape measure, or a telescoping pole with measuring graduations up to 25 feet). Special Conditions: Truck tractor, semitrailer, payload vehicle, and all tiedown devices have been inspected and found to be mission-ready. Some iterations of this task should be performed in MOPP 4.

**Standard:** You are to load and position a payload vehicle onto a flatbed semitrailer by guiding payload vehicle operator using visual hand and arm signals. With proper tiedown configuration, secure the payload vehicle to the semitrailer for transport and measure the height and width of load. Once the payload configuration has been inspected by supervisor and deemed safe for transport and meets height and width restrictions, you are to remove all tiedown devices and unload the payload vehicle from the semitrailer by providing hand and arm visual signals to payload vehicle operator. All procedures must be performed IAW applicable references and without injury to personnel or damage to equipment.

**Special Condition:** None

**Safety Risk:** Medium

**MOPP 4:** Sometimes

|                        |
|------------------------|
| <b>Task Statements</b> |
|------------------------|

**Cue:** Your unit is required to transport several wheeled or tracked vehicles to a new location.

## DANGER

Ensure that payload vehicle operator understands and complies with visual hand and arm signals when moving payload vehicle onto or from the semitrailer. Failure to comply may result in serious injury or death to personnel and severe damage to payload vehicle and semitrailer.

## WARNING

See Danger statement.

Moving large vehicles or equipment is inherently dangerous. Ensure that every precaution is taken to prevent an accident during the loading/unloading process by strictly adhering to all identified control measures for each hazard relating to this task.

## CAUTION

Damage to equipment will result if all safety precautions are not strictly followed. Refer to all operator TMs for proper operation.

**Remarks:** None

**Notes:** None



## Performance Steps

### 1. Prepare for loading operations.

a. Guide payload vehicle into position on loading dock in a line that is centered both on the payload vehicle and the semitrailer.

b. Remove semitrailer sideboards (if installed).

c. Place centering marks on the semitrailer to use as a reference when positioning payload vehicle.

d. Clean semitrailer of all obstructions, nails, or any foreign objects that may interfere with payload vehicle.

e. Prepare payload vehicle for loading.

(1) Reduce the payload outer dimensions by folding in outside rearview mirrors, lowering or removing antenna(s), and removing crew-served weapon (if mounted).

(2) Check payload vehicle canvas to ensure all loose ends are secured. Canvas may have to be removed if it interferes with height-width restrictions.

## WARNING

### WARNING

ENSURE ALL TIRES ARE INFLATED TO PROPER PRESSURE AND THAT NO TIRE IS LEAKING. IF ANY TIRE PREMATURELY DEFLATES DURING MOVEMENT, THE PAYLOAD VEHICLE WILL BECOME UNSTABLE AND MAY SHIFT OR FALL FROM SEMITRAILER, CAUSING SERIOUS INJURY OR DEATH TO PERSONNEL AND SEVERE DAMAGE TO EQUIPMENT.

(3) If payload vehicle is combat-loaded, with assistance from payload vehicle operator, ensure all items are secured on inside of vehicle or removed prior to transport.

(4) Have payload vehicle operator check tire pressure on all tires to ensure proper inflation.

(5) Check total load of payload vehicle with combat-load (or not) to ensure that it does not exceed load capacity of semitrailer before loading.

(6) Ensure payload vehicle center of gravity is clearly marked on both sides (to include load if combat-loaded).

## CAUTION

### CAUTION

Ensure that weight of payload vehicle (whether combat-loaded or not) does not exceed load capacity of semitrailer. Failure to comply may damage the semitrailer.

### 2. Position payload vehicle onto semitrailer.

a. Position yourself on the ground to the driver side of the semitrailer, in a clear line-of-sight to the payload vehicle operator, to guide the payload vehicle onto the semitrailer.

- b. Slowly guide payload vehicle onto semitrailer by providing appropriate hand and arm visual signals to payload vehicle operator.
  - c. Note shifting of weight to semitrailer when payload vehicle's weight is added.
  - d. Make hand and arm signal adjustments to center payload vehicle onto semitrailer along the centerline of the semitrailer.
  - e. Stop payload vehicle movement if vehicle moves off center line of semitrailer to either side, make adjustments as necessary.
  - f. Once centering marks are aligned on both the semitrailer and the payload vehicle, stop payload vehicle movement.
  - g. Have payload vehicle operator shutdown vehicle and set parking brake.
3. Secure payload vehicle onto semitrailer.
- a. Emplace wheel chocks.
  - b. Using a combination of chains and loadbinders, attach payload vehicle to tiedown points on edge of semitrailer and tiedown clevises of payload vehicle.
  - c. Use a double set of tiedowns on rear of payload vehicle to compensate for inertial forces in braking during movement.
  - d. Tighten all loadbinders sufficiently to prevent payload vehicle from shifting during movement.
  - e. Secure all loose ends of tiedowns by string, rope, or metal wire.
4. Measure the height and width of load before movement.
- a. Use suitable measuring device such as a 25-foot retractable tape or a telescoping pole with graduated measurement.
  - b. Double check to ensure that ground from which to measure is level in front of semitrailer wheels (not higher or lower).
  - c. Extend measuring device from the ground next to side of semitrailer to a point of the highest part of the payload vehicle. This distance must NOT exceed 13 feet, 5 inches in CONUS and 13 feet, 1 inch OCONUS. Take a minimum of two measurements to ensure accuracy and record measurement.
  - d. If load exceeds limit in item 4c above, reject or adjust load to meet limitations.
  - e. Measure the width of load by extending measuring device to the extreme outside limits of load and record measurement.
  - f. Provide load measurements to supervisor for comparison to route restrictions.

## WARNING

### WARNING

EXTREME CAUTION SHOULD BE TAKEN TO ENSURE THAT PAYLOAD VEHICLE HAS NOT DANGEROUSLY SHIFTED DURING MOVEMENT PRIOR TO LOOSENING ANY TIEDOWNS. FAILURE TO COMPLY MAY RESULT IN PAYLOAD VEHICLE FALLING FROM SEMITRAILER CAUSING SERIOUS INJURY OR DEATH TO PERSONNEL OR SEVERE DAMAGE TO EQUIPMENT.

5. Prepare for unloading of payload vehicle.

a. Visually check to ensure that payload vehicle has not shifted prior to loosening of tiedowns. If shifting is suspected, refer to supervisor for guidance.

b. With assistance from payload vehicle operator, remove all tiedown devices from payload vehicle.

c. Direct payload vehicle operator to mount vehicle and prepare for movement (includes vehicle starting procedures and pressurization of vehicle brake reservoirs).

d. Remove wheel chocks.

e. Position yourself on the ground, in a clear line of sight on driver-side of semitrailer.

6. Unload payload vehicle from semitrailer.

a. Provide hand and arm visual signals to payload vehicle operator to guide payload vehicle off the semitrailer and onto the loading dock.

b. Signal payload vehicle operator to stop vehicle once in position on loading dock.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If any performance measure is failed, tell the soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** Provide the Soldier with a briefing on expectation and procedures to perform.

| PERFORMANCE MEASURES   | GO | NO-GO | N/A |
|--|----|-------|-----|
| 1. Prepared for loading operations.                            |    |       |     |
| 2. Positioned payload vehicle onto semitrailer.                |    |       |     |
| 3. Secured payload vehicle onto semitrailer.                   |    |       |     |
| 4. Measured the height and width of load before movement.      |    |       |     |
| 5. Prepared for unloading of payload vehicle from semitrailer. |    |       |     |
| 6. Unloaded payload vehicle from semitrailer.                  |    |       |     |

**Supporting Reference(s):**

| Step Number | Reference ID                                 | Reference Name  | Required | Primary |
|-------------|--|---|----------|---------|
|             | TC 21-305-20                                 | Manual for the Wheeled Vehicle Operator {AFMAN 24-306(I)}   | Yes      | No      |
|             | TM 9-2320-426-10<br>(Change 002 - 5/17/2013) | Operator's Manual for Truck, Tractor, Line Haul: 66,000 GVWR, 6X4, M915A5 (NSN: 2320-01-552-2922)   | No       | No      |
|             | TM 9-2330-359-14&P                           | OPERATORS, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS) FOR SEMITRAILER, FLATBED: BREAKBULK/CONTAINER TRANSPORTER, 34 TON M872 (T | Yes      | No      |

**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 FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. 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 FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :** None