

Summary Report for Individual Task
551-88M-1514
Adjust the platform height on the M1000 Semitrailer
Status: Approved

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, given an M1000 semitrailer with basic issue items (BII) and operational auxiliary power unit (APU), hearing protection, and work gloves. Some iterations of this task should be performed in MOPP 4.

Standard: Adjust platform height to the height of the semitrailer with 100% accuracy and without injury to personnel or damage to equipment.

Special Condition: If semitrailer is loaded, the semitrailer must be coupled to tractor to perform height adjustments. See semitrailer technical manual (TM) for details.

Safety Risk: Medium

MOPP 4: Sometimes

Task Statements

Cue: Your unit has a requirement to transport heavy loads.

DANGER

Soldiers must be aware of the inherent dangers of working in and around tactical wheeled vehicles. Hot surfaces, sharp, moving objects such as fan blades, slippery surfaces, and excessively loud noises are all dangers. These dangers are also applicable to hazardous cargo being transported (as applicable). Each Soldier should take every precaution not to become a victim of these dangers by following regulatory guidance and risk management rules.

WARNING

Adhere to all WARNING statements in the referenced technical manuals for the procedures identified for this task.

CAUTION

Adhere to all CAUTION statements in the referenced technical manuals for the procedures identified for this task.

Remarks: None

Notes: None

Performance Steps

1. Start the APU and run at full throttle (WP 0005).

CAUTION

The suspension SHUTOFF valve handle must be pulled outward to the ADJUST position prior to operating any platform/ gooseneck valve handles. The suspension SHUTOFF valve isolates the suspension and prevents operation. If the valve handle is not properly positioned for intended operation, severe damage to equipment may result.

2. Pull out handle of suspension SHUTOFF valve to ADJUST position.

WARNING

Ensure both streetside and curbside front bogie wheels are chocked. After the parking brakes are released, the semitrailer may roll uncontrolled. Failure to follow this warning may result in injury to personnel or damage to equipment.

3. If semitrailer is coupled, release semitrailer parking brakes. If semitrailer is uncoupled and semitrailer air tanks contain sufficient air, push in knob of brake release valve to release brakes.

Note: The brakes on the semitrailer should be released when making platform adjustments. If the parking brakes are not released, platform adjustments will be much slower and more difficult to accomplish.

WARNING

If the semitrailer is coupled to a tractor, the gooseneck isolation valve handle must be in the RUN position (handle pushed inward). If the semitrailer is uncoupled and the gooseneck needs adjusting, verify that the front support legs are lowered and supporting the platform and that all personnel are clear of the gooseneck before operating the gooseneck isolation valve.

4. If semitrailer is uncoupled and gooseneck needs to be raised, ensure that handle of gooseneck isolation valve is in ADJUST position, handle pulled outward.

5. If semitrailer is coupled, ensure handle of gooseneck isolation valve is in RUN position, handle pushed inward.

CAUTION

Wheel chocks must be moved away from tires prior to adjusting platform height or damage to wheel chocks or tires may result.

6. Move all four wheel chocks approximately 6 inches away from tires prior to adjusting platform.

CAUTION

• DO NOT leave semitrailer unattended with suspension raised to highest position. Outside temperatures may cause thermal expansion of the hydraulic fluid and create unwanted pressure buildup without means to relieve pressure. Thermal expansion may cause premature failure or severe damage to equipment. • DO NOT move semitrailer with suspension raised to its highest position. Individual bogies may sustain excess load, which may result in premature cylinder failure or severe damage to equipment.

7. To raise platform, simultaneously pull up and hold handles of front curbside, front streetside and rear suspension valves.

Note: If the platform becomes uneven during adjustment, release the valve handle for the platform area that is leading the adjustment while holding the other two valve handles. Once the platform evens out, continue to operate all three valve handles to adjust platform.

CAUTION

DO NOT allow suspension to completely bottom out in the lowest position (unless otherwise directed by specific operation or maintenance procedures) or individual bogies may sustain excess load and result in premature cylinder failure or severe damage to equipment. To ensure proper suspension pressure equalization, lower platform until the shortest (compression) suspension cylinder piston still has 1 in. (2.54 cm) of polished chrome exposed. Failure to follow this caution may result in damage to equipment.

8. To lower platform, push down and hold rear suspension valve handle.

9. Once rear of platform starts to lower, push down and hold front curbside suspension valve handle and front streetside suspension valve handle.

10. Once platform reaches lowest suggested height, release all three suspension valve handles.

Note: If the semitrailer is uncoupled, difficulty in lowering the rear of the platform may be experienced due to the offset weight of the gooseneck.

11. Raise platform to normal running height of 43 inches, and lower both front support legs to support platform at running height.

12. Push down and hold rear valve handle. As rear of platform starts to lower, push down front curbside suspension valve handle and front streetside suspension valve handle.

13. Pull up front curbside suspension valve handle and front streetside suspension valve handle to raise front of platform.

14. Raise and secure front support legs.(WP 0011)

15. Push down and hold all three valve handles for front streetside, curbside, and rear valves until platform reaches recommended lowest height.

16. After lowering platform is complete, evenly raise platform and lower platform.

17. With aid of assistant, check bed height indicators on each of three suspension assemblies.

18. With aid of another assistant, make adjustments to the platform as needed. Level the platform to a normal road height of 43 inches.

19. Lower front and rear support legs to support platform.
20. Lower platform onto support legs.
21. If semitrailer is to be parked uncoupled, lower gooseneck to lowest position.
22. Push in handles of suspension SHUTOFF valve and gooseneck isolation valve, as far as they will go, to SHUTOFF and RUN positions.
23. Shut down APU.(WP 0005)

WARNING

Ensure that vented dummy coupling is installed on the emergency (red) gladhand prior to releasing brakes with the brake release valve. If a nonvented dummy coupling is installed, the parking brakes cannot be reapplied and injury to personnel may result.

24. Apply brakes on semitrailer by pulling knob on brake release valve outward. If no other braking applications are required, install dummy coupling onto emergency gladhand.

Note: Reapply semitrailer parking brakes using semitrailer brake valve on tractor, if coupled.

25. Place wheel chocks in front of and behind tires.

(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: SETUP: Brief Soldier on task specifications. Provide an M1000 Semitrailer, hearing protection, solid-level ground for operation, assistance, work gloves, seasonal uniform.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Started the APU and ran at full throttle (WP 0005).			
2. Pulled out handle of suspension SHUTOFF valve to ADJUST position.			
3. If semitrailer is coupled, released semitrailer parking brakes. If semitrailer was uncoupled and semitrailer air tanks contained sufficient air, pushed in knob of brake release valve to release brakes.			
4. If semitrailer is uncoupled and gooseneck needed to be raised, ensured that handle of gooseneck isolation valve was in ADJUST position, handle pulled outward.			
5. If semitrailer was coupled, ensured handle of gooseneck isolation valve in RUN position, handle pushed inward.			
6. Moved all four wheel chocks approximately 6 inches away from tires prior to adjusting platform.			
7. To raise platform, simultaneously pulled up and held handles of front curbside, front streetside and rear suspension valves.			
8. To lower platform, pushed down and held rear suspension valve handle.			
9. Once rear of platform started to lower, pushed down and held front curbside suspension valve handle and front streetside suspension valve handle.			
10. Once platform reached lowest suggested height, released all three suspension valve handles.			
11. Raised platform to normal running height of 43 inches, and lowered both front support legs to support platform at running height.			
12. Pushed down and held rear valve handle. As rear of platform started to lower, pushed down front curbside suspension valve handle and front streetside suspension valve handle.			
13. Pulled up front curbside suspension valve handle and front streetside suspension valve handle to raise front of platform.			
14. Raised and secured front support legs.(WP 0011)			
15. Pushed down and held all three valve handles for front streetside, curbside, and rear valves until platform reached recommended lowest height.			
16. After lowering platform is completed, evenly raised platform and lowered platform.			
17. With the aid of an assistant, checked bed height indicators on each of three suspension assemblies.			
18. With the aid of another assistant, made adjustments to the platform as needed. Leveled the platform to a normal road height of 43 inches.			
19. Lowered front and rear support legs to support platform.			
20. Lowered platform onto support legs.			
21. If semitrailer was to be parked uncoupled, lowered gooseneck to lowest position.			
22. Pushed in handle of suspension SHUTOFF valve and gooseneck isolation valve, as far as they will go, to SHUTOFF and RUN positions.			
23. Shut down APU.(WP 0005)			
24. Applied brakes on semitrailer by pulling knob on brake release valve outward. If no other braking applications are required, installed dummy coupling onto emergency gladhand.			
25. Placed wheel chocks in front of and behind tires.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	TM 9-2320-427-10	OPERATORS MANUAL FOR TRACTOR, TRUCK, M1070A1 (NSN: 2320-01-564-6882)	Yes	Yes
	TM 9-2330-381-13	Operator and Field Maintenance Manual for Semitrailer, Transporter, Heavy Equipment 70 Ton, M1000 (NSN 2330-01-303-8832) (EIC: CXU)	Yes	Yes

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. 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.

CAUTION

If the semitrailer is loaded, DO NOT make any platform adjustments while uncoupled or severe damage to equipment may result.

CAUTION

The suspension shut-off valve handle must be pulled outward to the ADJUST position prior to operating any platform/gooseneck valve handles. The suspension shut-off valve isolates the suspension and prevents operation. If the valve handle is not properly positioned, for intended operation, severe damage to equipment may result. Wear hearing protection while APU is running. Remove all jewelry when working around vehicles.

WARNING:

Ensure both streetside and curbside front bogie wheels are chocked. After the parking brakes are released, the semitrailer may roll uncontrolled and cause injury to personnel or damage to equipment.

WARNING:

If semitrailer is coupled to a tractor, the gooseneck isolation valve handle must be in the RUN position (handle pushed inward). If semitrailer is coupled and the gooseneck needs adjusting, verify that front support legs are lowered and supporting the platform and all personnel are clear of gooseneck before operating gooseneck isolation valve or injury to personnel may result.

CAUTION:

DO NOT allow suspension to bottom out in the lowest position (unless otherwise directed by specific operation or maintenance procedures) or individual bogies may sustain excess load and result in premature cylinder failure or severe damage to equipment. To ensure proper suspension pressure equalization, lower platform until the shortest (compression) suspension cylinder piston still has 1 inch (2.54 cm) of polished chrome exposed.

Prerequisite Individual Tasks :

Task Number	Title	Proponent	Status
551-88M-1517	Operate Heavy Equipment Transporter (HET) on Improved Roads	551 - Transportation (Individual)	Approved

Supporting Individual Tasks : None

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-88M-2335	Supervise Loading a Disabled Tracked/Wheeled Vehicle onto a Heavy Equipment Transporter	551 - Transportation (Individual)	Approved
551-88M-1518	Load Disabled Tracked/Wheeled Vehicle onto a Heavy Equipment Transporter.	551 - Transportation (Individual)	Approved

Supported Collective Tasks : None