

Summary Report for Individual Task
551-88M-2335
Supervise Loading a Disabled Tracked/Wheeled Vehicle onto a Heavy Equipment Transporter
Status: Approved

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Destruction Notice: None

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Condition: In an operational environment, complete a risk assessment worksheet on procedures to be performed and ensure command approval of procedures is achieved. Given an disabled tracked/wheeled vehicle for loading onto HET, HET Driver and assistant driver, HET basic issue items (BII), a coupled HET with pre-operational maintenance checks performed, assistance from other crew members, and level ground to conduct loading operations. Some iterations of this task should be performed in MOPP 4.

Standard: Supervise the loading of a disabled tracked/wheeled vehicle, position vehicle properly, and secure vehicle to prevent movement during transport. Ensure that all procedures are accomplished without injury to personnel, damage to HET, or vehicle payload.

Special Condition: Two-person operation. Assistance from another crew member is required.

Safety Risk: High

MOPP 4: Sometimes

Task Statements

Cue: Your Unit is called to transport an M1A2 Abrams Tank which would require you to be trained to transport a tracked/wheeled vehicle for loading onto the HET, you have all HET basic issue items (BII), a coupled HET with pre-operational maintenance checks performed, assistance is available from other crew members, and level ground to conduct loading operations. This is a minimum of a Two-person operation.

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 (explosive hazard) (as applicable). Each Soldier should take every precaution not to become a victim of these dangers by following regulatory guidance and risk management rules. If armed the vehicle has additional ammunition explosive and negligent discharge hazards.

WARNING

WARNING: Load semitrailer on level ground whenever possible. In adverse conditions, loading can be done on grades up to 10 percent with a maximum offset angle of 10 degrees between tractor and semitrailer. Avoid exceeding these limitations to prevent payload from rolling on semitrailer and causing serious injury to personnel and damage to equipment.

WARNING: Due to semitrailers being outfitted with various chains (1/2-inch and/or 3/4-inch link sizes), all chains must be inventoried in the platform storage compartment prior to placing chains on platform. Once chains are inventoried, read and familiarize yourself with the information in steps (20) (a) thru (h) to determine tiedown needed to properly secure the payload or injury to personnel and damage to equipment may result.

WARNING: Two spotters are required for loading and unloading operations. The payload operator must know the position of spotters at all times or injury to personnel may result.

WARNING: Do not position a spotter on gooseneck if payload is to be backed onto semitrailer platform or injury to personnel may result.

WARNING: Unnecessary personnel must stand well clear of the vehicles, especially behind the payload (engine/turbine exhaust) during loading operations. At no time during any loading operation while the payload is moving should personnel be on the semitrailer platform. The payload operator must drive the payload slowly up the loading ramps and onto the platform or injury to personnel and damage to equipment may result.

WARNING: Payload adjustments, side to side (turning), must be kept to a minimum or serious injury to personnel and damage to equipment may result.

WARNING: Failure to set the payload parking brake could allow the payload to roll backward causing injury to personnel and damage to equipment.

CAUTION

Be aware of all Caution statements referenced in the equipment Technical Manuals to ensure damage to equipment or injury to personnel does not occur.

Remarks: None

Notes: None

Performance Steps

1. Conduct a Risk Assessment of the Operation. Complete the worksheet and obtain required signature approval.
 - a. Identify the Hazards.
 - b. Assess the Risks.
 - c. Develop Controls.
 - d. Implement Controls.
 - e. Supervise and evaluate the operation.
2. Provide direct supervision of steps 3 through 88 below and ensure completion as required in the referenced technical manuals for this operation.
3. Start tractor.
4. Set central Tire Inflation System (CTIS) switch to setting for expected road or terrain conditions and allow tractor to sit until selected CTIS indicator remains lit for that CTIS setting.
5. If not already coupled, couple tractor to semitrailer (WP 0013).

WARNING

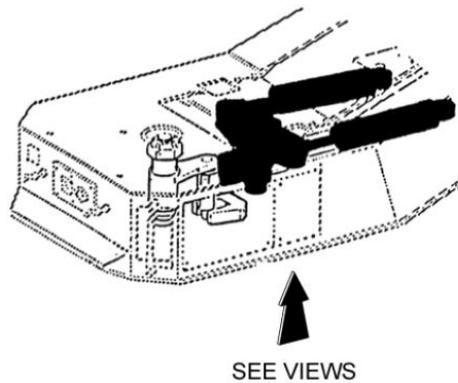
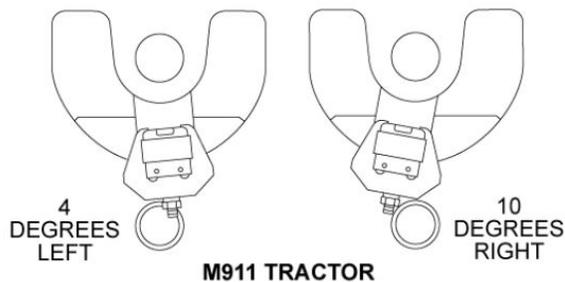
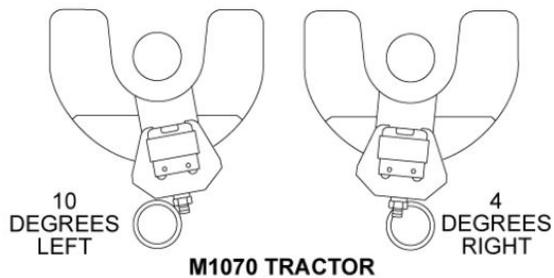
Whenever possible, load semitrailer on level ground. In adverse conditions, loading can be done on grades up to 10 percent. Failure to follow this warning may result in injury to personnel.

Due to the possibility of winch cables piling up against the end flanges of the cable drums, the following offset limits between the tractor and semitrailer (see illustration) must be adhered to:

- M1070 tractor: 10 degrees left and 4 degrees right.

Failure to follow these warnings may result in injury to personnel.

6. Visually check tractor/semitrailer offset angle. Make any required adjustments to tractor by having spotter check relationship between steering wedge bolt and weld circle at bottom rear of pickup plate. If inside edge of bolt aligns with outside edge of weld circle, offset angle is 10 degrees. Make any required adjustments to tractor.



Off-set adjustment

Indicates proper off-set angle for vehicle being used.

7. Apply tractor parking brakes by pulling out parking brake valve. Remove four wheel chocks from stowage compartment on tractor and chock wheels on both sides of tractor.

8. Remove manila rope from platform stowage compartment. Starting from front streetside corner of platform, pull one end of manila rope back and through snatch block and forward to front curbside corner of platform.

9. Tie both ends of manila rope to front lifting eyes on platform (just inward of each front support leg).

10. Position payload chocks, curb guides, and tiedown chains. Adjust platform to loading position. Lower ramps.

WARNING

- If possible, provide ample clear space behind the disabled payload during loading to protect personnel and prevent damage to equipment should cables break while payload is being loaded.
- Ensure winch cables are not kinked, clevises are secure to winch cables, and snatch blocks and shackles are in good condition and properly secured.
- Ensure winch cables are inspected in accordance with TB 43-0142.
- Use extreme caution during any operation on a slope.
- Have a ground spotter stand off curbside of semitrailer and maintain visual contact with the winch operator. The spotter must observe cables, snatch blocks, shackles, and payload position during loading.
- DO NOT overload tractor winches. Know the rating of the winches being used and any protection devices (such as shear pins) or injury to personnel may result.

Failure to follow these warnings may result in serious injury to personnel.

- All ground personnel must stand clear of winch cables except when handling.
- During winch-on operations on a downgrade, the payload must be restrained from the rear with some other vehicle to prevent possible loss of control of the payload.
- At no time during loading operations, while the payload is being pulled on with winches, should personnel be on the semitrailer platform.
- Always wear leather gloves when handling cable. Never allow cable to run through hands.

Failure to follow these warnings may result in injury to personnel.

11. Turn beacon light switch to ON position. With engine idling, set PTO switch to ON.

Note: • The M1070 tractor has an auxiliary winch system that is used to pay out the main winch cables to the payload.

• Ensure that M1070 tractor parking brake is applied. PTO will not engage unless tractor parking brake is set.

12. Raise guard. Lock guard in upright position and release AUXILIARY WINCH KICKOUT by lifting and rotating lever counterclockwise.

13. Remove two large shackles from rear payload tiedown ring and four load binders. Leave load binders and chains in place on platform.

14. Remove two smaller shackles from BII. Unhook auxiliary winch cable from stow hook.

15. Install two large shackles (from platform) and two smaller shackles on upper left recovery eye and upper right recovery eye.

16. Remove auxiliary snatch block from stowage on M1070A1 tractor. Attach snatch block to smaller shackle on upper left recovery eye of payload.

17. Unscrew retainer bolt, rotate side housing to open auxiliary snatch block, pass auxiliary winch cable through auxiliary snatch block, and rotate side housing to close. Tighten retainer bolt to secure side housing in closed position.

18. Engage both DRIVER SIDE WINCH KICKOUT and PASSENGER SIDE WINCH KICKOUT switches by pushing on each switch.

Note: Ensure auxiliary winch cable is pulled forward over platform and along curbside of gooseneck toward passenger side of winching station on tractor.

19. Push CABLE HOLD-DOWN lever to ON position.

20. Pull PASSENGER SIDE WINCH lever upward momentarily until there is enough slack in passenger side winch cable to be removed from stow hook. Move winch cable clevis off of stow hook to unstow winch cable. Continue paying out winch cable until spotter on the ground can reach winch cable clevis. Release PASSENGER SIDE WINCH lever.

21. Remove and retain cotter pin and shoulder pin from passenger side winch cable clevis.

22. Remove cotter pin and shouldered pin from auxiliary winch cable clevis. Install auxiliary winch cable clevis over one ear of passenger side winch cable clevis and install shouldered pin and cotter pin.

23. Engage AUXILIARY WINCH KICKOUTPUT lever by lifting and rotating lever clockwise. Disengage PASSENGER SIDE WINCH KICKOUT switch by pulling switch.

24. Push down on AUXILIARY WINCH lever to pull passenger side winch cable toward auxiliary snatch block.

Note: With the aid of an assistant, use one person to operate winch controls and a second person to ensure that winch cable clevises DO NOT hang up on the platform.

25. If auxiliary winch cable does not pull passenger side winch cable, push engine SPEED CONTROL switch to HIGH engine IDLE.

26. Momentarily push engine SPEED CONTROL switch to lock engine speed at high idle (approx. 1500 rpm) and then release switch.

27. When passenger side winch cable reaches front of platform, release AUXILIARY WINCH lever.

28. Route passenger side winch cable through gooseneck cable guide.

29. Push down on AUXILIARY WINCH lever and continue to pull passenger winch cable to auxiliary snatch block.

30. Release AUXILIARY WINCH lever when passenger side winch cable is approximately 12 in. from auxiliary snatch block. Spotter must continue to pull passenger side winch cable until winch cable has enough slack that it touches the ground.

31. Remove cotter pin and shouldered pin from auxiliary winch cable clevis.

32. Separate auxiliary winch cable from passenger side winch cable.

33. Lay passenger side winch cable on the ground in front of payload.

34. Release AUXILIARY WINCH KICKOUT by lifting and rotating lever counterclockwise.

35. Pull auxiliary winch cable forward over platform and along streetside of gooseneck toward driver side of winching station on tractor.

36. Pull DRIVER SIDE WINCH lever upward momentarily until there is enough slack in driver side winch cable to be removed from stow hook.

37. Move driver's side winch cable clevis off of stow hook and unstow winch cable.

38. Continue paying out cable until spotter on the ground can reach clevis. Release lever.

39. Remove and retain cotter pin and shouldered pin from driver side winch cable clevis.

40. Install auxiliary winch cable clevis over one ear of clevis from driver side winch cable and install shouldered pin and cotter pin.

WARNING

DO NOT allow auxiliary winch cable to cross itself or knot up on winch. Failure to follow this warning may result in injury to personnel.

41. Engage AUXILIARY WINCH KICKOUT by lifting and rotating lever clockwise. Disengage DRIVER SIDE WINCH KICKOUT switch by pulling switch.

Note: With the aid of an assistant, use one person to operate the winch controls and a second person to ensure that winch cable clevises **DO NOT** hang up on platform.

42. Push down on AUXILIARY WINCH lever to pull driver side winch cable to auxiliary snatch block.

43. If auxiliary winch cable does not pull driver side winch cable, push engine SPEED CONTROL switch to HIGH engine IDLE. Momentarily push engine SPEED CONTROL switch to lock engine speed at high idle and then release switch.

44. When driver side winch cable reaches front of platform, release AUXILIARY WINCH lever.

45. Route driver side winch cable through gooseneck cable guide.

46. Push down on AUXILIARY WINCH lever and continue to pull driver side winch cable to auxiliary snatch block.

47. Release AUXILIARY WINCH lever when driver side winch cable is approximately 12 in. from auxiliary snatch block.

48. Spotter must continue to pull driver side winch cable until winch cable has enough slack that it touches the ground.

49. Remove cotter pin and shouldered pin from auxiliary winch cable clevis.
50. Separate auxiliary winch from driver side winch cable.
51. Lay driver side winch cable on the ground in front of payload.
52. Install shouldered pin and cotter pin in auxiliary winch cable clevis.
53. Unscrew retainer bolt and rotate side housing on auxiliary snatch block to open snatch block.
Note: Perform the following 5 steps to stow auxiliary winch cable.
54. Unscrew auxiliary winch cable from auxiliary snatch block, rotate side housing to close, and tighten retainer bolt to secure side housing in closed position.
55. Rotate auxiliary snatch block from shackle and place back in storage on M10970A1 tractor.
56. Remove two small shackles from larger shackles in upper left and right recovery eyes. Return two small shackles to BII.
57. Using one person to push downward on AUXILIARY WINCH lever and one person to maintain tension on auxiliary winch cable, retract winch cable and restow cable on stow hook.
58. With aid of an assistant, connect passenger side winch cable clevis to shackle on upper right recovery eye and secure in place by installing shouldered pin and cotter pin.
59. With aid of assistant, connect driver side winch cable clevis to shackle on upper left recover eye on payload and secure in place installing shouldered pin and cotter pin.

CAUTION

- The payload brake system must be released prior to winching payload onto semitrailer, or damage to equipment may result. • WINCH SPEED CONTROL must be placed in LOW for MAX PULL when loading payloads, or damage to equipment may result.

60. Pull WINCH SPEED CONTROL switch to LOW. Push engine SPEED CONTROL switch to HIGH engine IDLE. Momentarily push ENGINE SPEED CONTROL switch to lock engine speed at high idle and then release ENGINE SPEED CONTROL switch.

Note: Ensure payload brakes are released. Station ground spotter on curbside of payload to provide direction to winch operator during winching operation.

61. Engage both DRIVER SIDE WINCH KICKOUT switch and PASSENGER SIDE WINCH KICKOUT switch by pushing on each switch. Push CABLE HOLD-DOWN lever to ON.

62. Winch operator must take up all slack on both driver and passenger side winch cables by pushing down on DRIVER SIDE WINCH lever and PASSENGER SIDE WINCH lever. Release both levers when both winch cables are tight.

63. Winch operator must push down on PASSENGER SIDE WINCH lever and pull payload in alignment with ramps and then release lever.

64. Winch operator must push down on DRIVER SIDE WINCH lever and pull payload in alignment with ramps and then release lever.

Note: Prior to making adjustments, the spotter must place scrap blocks of wood under curbside of the payload, just in front of the first roadwheel.

65. Winch operator must push down both DRIVER and PASSENGER SIDE WINCH levers to pull payload slowly up ramps onto platform, adjusting pull on either cable as required to maintain alignment of payload tracks to curb guides.

66. When track on streetside of payload makes contact with curbside rear payload chock, winch operator must release both DRIVER SIDE WINCH lever and PASSENGER SIDE WINCH lever to stop payload.

67. Chock streetside rear of payload using streetside rear payload chocks.

68. Adjust platform to normal running height (WP 0015).

69. Lift two front tiedown chains and attach to two front towing lugs using two shackles from platform stowage compartment.

70. Remove curbside rear payload chock from front streetside of payload.

71. Winch operator must push down on both DRIVER SIDE and PASSENGER SIDE WINCH levers until front tiedown chains are tight and payload tracks are firmly on front payload chocks.

72. Place two rear payload chocks to rear curbside and streetside of payload.

WARNING

Prior to removing winch cable from payload, winch operator must ensure each cable sags to top of tractor tires to relieve cable twist. Failure to follow this warning may result in injury to personnel.

73. Winch operator must pull up both DRIVER SIDE and PASSENGER SIDE WINCH levers until each winch cable sags to top of tractor tires.

WARNING

• Failure to extend safety rail while attaching or removing payload winch cable may cause injury to personnel. • On some semitrailers a solar battery charger is mounted to the top of the gooseneck directly in front of the spare tires. Persons working on top of the gooseneck must take EXTREME care not to step on or trip over the solar battery charger.

Failure to follow these warnings may result in injury to personnel or damage to equipment.

74. Unlatch and extend gooseneck safety rail.

75. Check for twist in both winch cables.

76. Remove cotter pins and shouldered pins from two clevises on both driver and passenger side winch cables.

77. Remove cables from shackles on two upper recovery eyes on payload.

78. Remove two large shackles from upper recovery eyes of payload.

WARNING

• Failure to extend safety rail while attaching or removing the payload winch cable may cause injury to personnel. • On some semitrailers a solar battery charger is mounted to the top of the gooseneck directly in front of the spare tires. Persons working on top of the gooseneck must take EXTREME care not to step on or trip over the solar battery charger.

Failure to follow these warnings may result in injury to personnel or damage to equipment.

79. Retract and latch gooseneck safety rail.

80. Install two large shackles and four load binders on rear payload tiedown ring.

81. Secure payload to semitrailer platform (WP 0015).

82. Install two shouldered pins and cotter pins on winch cable clevises.

83. Remove both winch cables from gooseneck cable guides.

84. Using one person to push down on DRIVER SIDE WINCH Lever and one person to maintain tension on DRIVER SIDE WINCH cable, retract and stow DRIVER SIDE WINCH cable clevis. Release DRIVER SIDE WINCH lever.

85. Using one person to push down on PASSENGER SIDE WINCH lever and on person to maintain tension on PASSENGER SIDE WINCH cable, retract and stow PASSENGER SIDE WINCH cable clevis onto stow hook. Release PASSENGER SIDE WINCH lever.

86. Pull ENGINE SPEED CONTROL switch to LOW ENGINE IDLE. Lower guard and lock guard in place.

87. Raise and secure ramps, and restow curb guides, crowbar, and all tools used during this procedure.

88. Set PTO switch and beacon light switch to OFF position.

(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 the Soldier on task specifications. Provide a disabled tracked/wheeled vehicle for loading onto HET, HET Driver and assistant driver, HET basic issue items (BII), a coupled HET with pre-operational maintenance checks performed, assistance from other crew members, and level ground to conduct loading operations.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed a Deliberate Risk Assessment for the following procedures.			
2. Supervised the driver and assistant driver on steps 3 through 88 of this procedure.			
3. Started tractor.			
4. Set central Tire Inflation System (CTIS) switch to setting for expected road or terrain conditions and allowed tractor to sit until selected CTIS indicator remained lit for that CTIS setting.			
5. If not already coupled, coupled tractor to semitrailer (WP 0013).			
6. Visually checked tractor/semitrailer offset angle. Made required adjustments to tractor by having spotter check relationship between steering wedge bolt and weld circle at bottom rear of pickup plate. If inside edge of bolt aligned with outside edge of weld circle, offset angle is 10 degrees. Made any required adjustments to tractor.			
7. Applied tractor parking brakes by pulling out parking brake valve. Removed four wheel chocks from stowage compartment on tractor and chocked wheels on both sides of tractor.			
8. Removed manila rope from platform stowage compartment. Starting from front streetside corner of platform, pulled one end of manila rope back and through snatch block and forward to front curbside corner of platform.			
9. Tied both ends of manila rope to front lifting eyes on platform (just inward of each front support leg).			
10. Positioned payload chocks, curb guides, and tiedown chains. Adjusted platform to loading position. Lowered ramps.			
11. Turned beacon light switch to ON position. With engine idling, set PTO switch to ON.			
12. Raised guard. Locked guard in upright position and released AUXILIARY WINCH KICKOUT by lifting and rotating lever counterclockwise.			
13. Removed two large shackles from rear payload tiedown ring and four load binders. Left load binders and chains in place on platform.			
14. Removed two smaller shackles from BII. Unhooked auxiliary winch cable from stow hook.			
15. Installed two large shackles (from platform) and two smaller shackles on upper left recovery eye and upper right recovery eye.			
16. Removed auxiliary snatch block from stowage on M1070A1 tractor. Attached snatch block to smaller shackle on upper left recovery eye of payload.			
17. Unscrewed retainer bolt, rotated side housing to open auxiliary snatch block, passed auxiliary winch cable through auxiliary snatch block, and rotated side housing to close. Tightened retainer bolt to secure side housing in closed position.			
18. Engaged both DRIVER SIDE WINCH KICKOUT and PASSENGER SIDE WINCH KICKOUT switches by pushing on each switch.			
19. Pushed CABLE HOLD-DOWN lever to ON position.			
20. Pulled PASSENGER SIDE WINCH lever upward momentarily until there was enough slack in passenger side winch cable to be removed from stow hook. Moved winch cable clevis off of stow hook to unstow winch cable. Continued paying out winch cable until spotter on the ground could reach winch cable clevis. Released PASSENGER SIDE WINCH lever.			
21. Removed and retained cotter pin and shoulder pin from passenger side winch cable clevis.			
22. Removed cotter pin and shouldered pin from auxiliary winch cable clevis. Installed auxiliary winch cable clevis over one ear of passenger side winch cable clevis and installed shouldered pin and cotter pin.			
23. Engaged AUXILIARY WINCH KICKOUT lever by lifting and rotating lever clockwise. Disengaged PASSENGER SIDE WINCH KICKOUT switch by pulling switch.			
24. Pushed down on AUXILIARY WINCH lever to pull passenger side winch cable toward auxiliary snatch block.			
25. If auxiliary winch cable did not pull passenger side winch cable, pushed engine SPEED CONTROL switch to HIGH engine IDLE.			
26. Momentarily pushed engine SPEED CONTROL switch to lock engine speed at high idle (approx. 1500 rpm) and then released switch.			

27. When passenger side winch cable reached front of platform, released AUXILIARY WINCH lever.			
28. Routed passenger side winch cable through gooseneck cable guide.			
29. Pushed down on AUXILIARY WINCH lever and continued to pull passenger winch cable to auxiliary snatch block.			
30. Released AUXILIARY WINCH lever when passenger side winch cable was approximately 12 in. from auxiliary snatch block. Spotter continued to pull passenger side winch cable until winch cable had enough slack that it touches the ground.			
31. Removed cotter pin and shouldered pin from auxiliary winch cable clevis.			
32. Separated auxiliary winch cable from passenger side winch cable.			
33. Laid passenger side winch cable on the ground in front of payload.			
34. Released AUXILIARY WINCH KICKOUT by lifting and rotating lever counterclockwise.			
35. Pulled auxiliary winch cable forward over platform and along streetside of gooseneck toward driver side of winching station on tractor.			
36. Pulled DRIVER SIDE WINCH lever upward momentarily until there was enough slack in driver side winch cable to be removed from stow hook.			
37. Moved driver's side winch cable clevis off of stow hook and unstowed winch cable.			
38. Continued paying out cable until spotter on the ground could reach clevis. Released lever.			
39. Removed and retained cotter pin and shouldered pin from driver side winch cable clevis.			
40. Installed auxiliary winch cable clevis over on eye of clevis from driver side winch cable and installed shouldered pin and cotter pin.			
41. Engaged AUXILIARY WINCH KICKOUT by lifting and rotating lever clockwise. Disengaged DRIVER SIDE WINCH KICKOUT switch by pulling switch.			
42. Pushed down on AUXILIARY WINCH lever to pull driver side winch cable to auxiliary snatch block.			
43. If auxiliary winch cable did not pull driver side winch cable, pushed engine SPEED CONTROL switch to HIGH engine IDLE. Momentarily pushed engine SPEED CONTROL switch to lock engine speed at high idle and then released switch.			
44. When driver side winch cable reached front of platform, released AUXILIARY WINCH lever.			
45. Routed driver side winch cable through gooseneck cable guide.			
46. Pushed down on AUXILIARY WINCH lever and continued to pull driver side winch cable to auxiliary snatch block.			
47. Released AUXILIARY WINCH lever when driver side winch cable was approximately 12 in. from auxiliary snatch block.			
48. Spotter continued to pull driver side winch cable until winch cable had enough slack that it touched the ground.			
49. Removed cotter pin and shouldered pin from auxiliary winch cable clevis.			
50. Separated auxiliary winch from driver side winch cable.			
51. Laid driver side winch cable on the ground in front of payload.			
52. Installed shouldered pin and cotter pin in auxiliary winch cable clevis.			
53. Unscrewed retainer bolt and rotated side housing on auxiliary snatch block to open snatch block.			
54. Unscrewed auxiliary winch cable from auxiliary snatch block, rotated side housing to close, and tightened retainer bolt to secure side housing in closed position.			
55. Rotated auxiliary snatch block from shackle and placed back in storage on M10970A1 tractor.			
56. Removed two small shackles from larger shackles in upper left and right recovery eyes. Returned two small shackles to BIL.			
57. Using one person to push downward on AUXILIARY WINCH lever and one person to maintain tension on auxiliary winch cable, retracted winch cable and restowed cable on stow hook.			

58. With aid of an assistant, connected passenger side winch cable clevis to shackle on upper right recovery eye and secured in place by installing shouldered pin and cotter pin.			
59. With aid of assistant, connected driver side winch cable clevis to shackle on upper left recover eye on payload and secured in place installing shouldered pin and cotter pin.			
60. Pulled WINCH SPEED CONTROL switch to LOW. Pushed engine SPEED CONTROL switch to HIGH engine IDLE. Momentarily pushed ENGINE SPEED CONTROL switch to lock engine speed at high idle and then released ENGINE SPEED CONTROL switch.			
61. Engaged both DRIVER SIDE WINCH KICKOUT switched and PASSENGER SIDE WINCH KICKOUT switch by pushing on each switch. Pushed CABLE HOLD-DOWN lever to ON.			
62. Winch operator took up all slack on both driver and passenger side winch cables by pushing down on DRIVER SIDE WINCH lever and PASSENGER SIDE WINCH lever. Released both levers when both winch cables were tight.			
63. Winch operator pushed down on PASSENGER SIDE WINCH lever and pull payload in alignment with ramps and then released lever.			
64. Winch operator pushed down on DRIVER SIDE WINCH lever and pull payload in alignment with ramps and then released lever.			
65. Winch operator pushed down both DRIVER and PASSENGER SIDE WINCH levers to pull payload slowly up ramps onto platform, adjusted pull on either cable as required to maintain alignment of payload tracks to curb guides.			
66. When track on streetside of payload made contact with curbside rear payload chock, winch operator released both DRIVER SIDE WINCH lever and PASSENGER SIDE WINCH lever to stop payload.			
67. Chocked streetside rear of payload using streetside rear payload chocks.			
68. Adjusted platform to normal running height (WP 0015).			
69. Lifted two front tiedown chains and attached to two front towing lugs using two shackles from platform stowage compartment.			
70. Removed curbside rear payload chock from front streetside of payload.			
71. Winch operator pushed down on both DRIVER SIDE and PASSENGER SIDE WINCH levers until front tiedown chains were tight and payload tracks were firmly on front payload chocks.			
72. Placed two rear payload chocks to rear curbside and streetside of payload.			
73. Winch operator pulled up both DRIVER SIDE and PASSENGER SIDE WINCH levers until each winch cables sagged to top of tractor tires.			
74. Unlatched and extended gooseneck safety rail.			
75. Checked for twist in both winch cables.			
76. Removed cotter pins and shouldered pins from two clevises on both driver and passenger side winch cables.			
77. Removed cables from shackles on two upper recovery eyes on payload.			
78. Removed two large shackles from upper recovery eyes of payload.			
79. Retracted and latched gooseneck safety rail.			
80. Installed two large shackles and four load binders on rear payload tiedown ring.			
81. Secured payload to semitrailer platform (WP 0015).			
82. Installed two shouldered pins and cotter pins on winch cable clevises.			
83. Removed both winch cables from gooseneck cable guides.			
84. Using one person to push down on DRIVER SIDE WINCH Lever and one person to maintain tension on DRIVER SIDE WINCH cable, retracted and stowed DRIVER SIDE WINCH cable clevis. Released DRIVER SIDE WINCH lever.			
85. Using one person to push down on PASSENDER SIDE WINCH lever and on person to maintain tension on PASSENGER SIDE WINCH cable, retracted and stowed PASSENGER SIDE WINCH cable clevis onto stow hook. Released PASSENGER SIDE WINCH lever.			
86. Pulled ENGINE SPEED CONTROL switch to LOW ENGINE IDLE. Lowered guard and locked guard in place.			
87. Raised and secured ramps, and restowed curb guides, crowbar, and all tools used during this procedure.			

88. Set PTO switch and beacon light switch to OFF position.			
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Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	FM 21-60	Visual Signals	Yes	No
	TM 9-2320-427-10	OPERATORS MANUAL FOR TRACTOR, TRUCK, M1070A1 (NSN: 2320-01-564-6882)	Yes	Yes
	TM 9-2330-381-14	OPERATORS, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR HEAVY EQUIPMENT TRANSPORTER SEMITRAILER, 70 TON, M1000 (NSN 2330-01-303-8832) (EIC: CXU) {TM 09295A-14/1}D	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. All soldiers are responsible for making every effort in minimizing or preventing damage to the environment during tactical operations. Any spillage of contaminants (fuel, oil, etc) must be contained until such time as a recovery team can perform necessary clean up operations.

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. Ground guides are required when moving vehicles. Designate NO SMOKING areas. Store flammables in approved containers and post signs reflecting contents. Enforce speed limit.

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 :

Task Number	Title	Proponent	Status
551-88M-1514	Adjust the platform height on the M1000 Semitrailer	551 - Transportation (Individual)	Analysis Completed
551-88M-1364	Operate Vehicle with Standard, Automatic/Semiautomatic Transmission	551 - Transportation (Individual)	Approved
551-88M-1517	Operate Heavy Equipment Transporter (HET) on Improved Roads	551 - Transportation (Individual)	Approved
551-88M-1512	Operate the APU on the M1000 Semitrailer	551 - Transportation (Individual)	Approved
551-88M-1367	Back Vehicle with Semitrailer	551 - Transportation (Individual)	Approved
551-88M-1516	Manually steer the M1000 Trailer	551 - Transportation (Individual)	Approved
551-88M-1515	Operate the Loading Ramps on the M1000 Semitrailer	551 - Transportation (Individual)	Approved
551-88M-1513	Adjust the Gooseneck on the M1000 Semitrailer	551 - Transportation (Individual)	Approved

Supported Individual Tasks : None

Supported Collective Tasks : None