551-88H-2608
Prepare RT 240 Rough Terrain Container Handler for Air Movement

Status: Approved
**Conditions:** Assigned as a container handler, Soldier must prepare the RT 240 Rough Terrain Container Handler for air movement. 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 must prepare the RT 240 Rough Terrain Container Handler for air movement IAW TM 10-3930-675-10, procedures and specifications utilizing the task Go/No-Go criteria. Comply with all warnings, cautions, and notes listed in all references. Soldier must perform this task with 100% compliance, without injury or damage to equipment.

**Special Conditions:** None

**Safety Risk:** Medium

**MOPP 4:** Sometimes

### Task Statements

**Cue:** Assigned as a container handler, Soldier must prepare the RT 240 Rough Terrain Container Handler for air movement.

**DANGER**

Adhere to all DANGER statements listed in the vehicle technical operator’s manual applicable to this procedure. Failure to comply may result in injury to personnel or damage to the equipment.
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". "Potential 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

Adhere to all CAUTION statements listed in the vehicle technical operator’s manual applicable to this procedure. Failure to comply may result in injury to personnel or damage to the equipment.

Remarks: None
Notes: None
Performance Steps

1. Prepare RTCH-RT 240 for air movement.
   a. Place the cab in transport position (to the left and fully lowered).
   b. Lower the boom support.
      Note: The RTCH may be deployed with forklift kit attached only when moving between remote areas, NOT on highways or streets. Forklift kit may also only be deployed with tophandler oriented in normal operational position, NOT longitudinal position. With forklift kit attached, overall lowered height of vehicle is increased by 3 feet (0.9 meters). This makes the lowered height (with clearance under forklift kit) approximately 193 inches (490 centimeters). This height is acceptable for movement between remote areas, but not for highway and/or street movement, due to overhead wires and structures.
   c. Drain fuel tank to a 1/4 tank or less.

2. Load RTCH-RT 240 on an aircraft.

   **WARNING**
   Always use a ground guide and do not exceed 1 MPH (1.6 kph) when driving RTCH up ramps in preparation for air transport. Failure to use a ground guide may result in an accident, causing death or injury to personnel or damage to equipment.
   
   **NOTE:** Ensure RTCH is properly aligned with aircraft. Once dolly wheels are installed on tophandler, RTCH is difficult to steer.

   a. Start RTCH-RT 240, select 2-wheel steering and ensure twistlocks are lined up.
   b. Position RTCH-RT 240 in line with and facing aircraft loading ramp, as close as possible to aircraft.
   c. Make sure cab is moved to transport position.

   **CAUTION**
   To ensure tophandler does not contact underside of boom, exercise tilt function and lock tophandler in tilted position while rotating tophandler. Failure to do so may damage tophandler and/or boom.

   d. Raise boom to 19 degrees and extend boom to 110 inches (279 centimeters).
   e. Rotate tophandler 90 degrees clockwise to longitudinal position and ensure tophandler is aligned with RTCH.
   f. Fold boom support.

   **WARNING**
   Ensure that tabs on ramp are engaged into ramp seat holes in dolly wheels storage compartment. Failure to secure ramp properly may cause ramp to fall under weight of dolly wheel, causing injury to personnel.

   g. Lower tophandler until approximately 18 inches (46 centimeters) off the ground.
   h. Open dolly wheels storage compartment and remove ramp from stowage and then position against storage compartment. When installed, front and rear dolly wheels are turned toward each other (see Figure 3-164).
i. Remove dolly wheels from storage compartment, using ramp.

j. Install each dolly wheel to tophandler (see Figure 3-165).

(1) Place dolly wheel so that tire will be under the twistlock when wheel is lifted.

(2) Install upper pin from outside of tophandler. Lock pin in position with retaining pin (see Figure 3-166).
Figure 3-166
Installing Upper Pin From Outside of Tophandler

(3) Remove lower pin from dolly wheel and set aside.

k. Stow ramp in dolly wheels storage compartment and secure ramp with straps.

l. Raise tophandler so that dolly wheels are off the ground approximately 2 feet (61 centimeters).

m. Install lower pin in lower hole of each dolly wheel and lock pin in position with retaining pin.

n. Lower tophandler until all four dolly wheels are resting on ground.

o. At side of locking valve at base of each lift cylinder, loosen float valve jam nut and turn float valve screw five turns counterclockwise and retighten jam nut to prevent loss (see Figure 3-167).

Figure 3-167
Turning Float Value Screw
p. At front of vehicle, open both shutoff valves #6 slowly and at the same time the tophandler should now be resting on dolly wheels in floating position (see Figure 3-168).

q. Open remote hydraulic control compartment (see Figure 3-169).

Note: Raise bogie wheels only enough to allow bogie wheels retaining collar to be unlocked.
r. Slowly pull bogie wheels lever to raise bogie wheels.

s. Turn bogie wheels retaining collar 1/4 turn clockwise to unlock bogie wheels, and if retaining collar is still tight, use handle stowed forward of bogie wheels to rotate shaft (see Figure 3-170).

u. Open shutoff valve #5 inside remote hydraulic control compartment by turning handle 90 degrees counterclockwise and bogie wheels will lower further and apply correct amount of ground pressure (see Figure 3-171).

CAUTION

Over steering will damage dolly and bogie wheels.
v. Using first gear and two-wheel steering mode slowly drive RTCH forward up ramps and position inside aircraft. DO NOT exceed 1 MPH (1.6 kph) speed. Only slight steering corrections are allowed during loading.

w. Lower boom support to the maximum onto the frame.

x. Rotate bogie wheels retaining collar 1/4 turn clockwise to lock bogie wheels in position, and it may be necessary to screw shaft down to take up slack in bogie wheels lock (see Figure 3-172).
y. Shut down RTCH engine.
   (1) Tie boom to RTCH frame.
   (2) Secure RTCH to tie-down locations inside aircraft in accordance with tie-down instructions on RTCH data plate and on aircraft.

3. Unload RTCH-RT 240 forklift from aircraft.
   a. Remove all tie downs.
   b. Open shutoff valve #5 inside remote hydraulic control compartment by turning handle 90 degrees counterclockwise.
   c. Rotate bogie wheels retaining collar 1/4 turn clockwise to unlock bogie wheels.
   d. Raise boom support to 30 degree mark on frame.
   e. Using two-wheel steering mode, slowly back RTCH down Ramps. DO NOT exceed 1 MPH (1.6 kph) speed. Only slight steering corrections are allowed during unloading.
   f. Inside the remote hydraulic control compartment, close shutoff valve #5.
   g. Inside the remote hydraulic control compartment, pull bogie wheels lever to fully raise bogie wheels.
   h. Turn bogie wheels retaining collar 1/4 turn clockwise to lock bogie wheels in stowed position.
   i. At front of vehicle, close both shutoff valves #6.
   j. At side of locking valve at base of each lift cylinder, loosen float valve jam nut and turn float valve clockwise until tight and retighten jam nut.
   k. Remove dolly wheels from tophandler:
      (1) Remove two retaining pins and lower and upper pin from each dolly wheel and remove dolly wheel from tophandler.

**WARNING**

Ensure that tabs on ramp are engaged into ramp seat holes in dolly wheels storage compartment. Failure to secure ramp properly may cause ramp to fall under weight of dolly wheel, causing injury to personnel.

(2) Reinstall lower and upper pin in dolly wheel and secure with retaining pins.

l. Using ramp, stow dolly wheels in dolly wheels storage compartment. Stow ramp inside storage compartment and secure with straps.

m. Raise boom to approximately 13 feet (4 meters) height.

n. Raise boom support.

**CAUTION**

To ensure tophandler does not contact underside of boom, exercise tilt function and lock tophandler in tilted position while rotating tophandler. Failure to do so may damage tophandler and/or boom.
o. Retract and lower boom.

p. Rotate tophandler 90 degrees counter clockwise to operational position.

q. Return cab to operational position.

r. Shut down RTCH engine.

s. Fill fuel tank.

(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 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.
1. Prepared RTCH-RT 240 forklift for air movement.
   a. Placed the cab in transport position (to the left and fully lowered).
   b. Lowered the boom support.
   c. Drained fuel tank to a 1/4 tank or less.

2. Loaded RTCH-RT 240 forklift onto aircraft.
   a. Started RTCH-RT 240, selected 2-wheel steering and ensured twistlocks were lined up.
   b. Positioned RTCH-RT 240 in line with and facing aircraft loading ramp, as close as possible to aircraft.
   c. Made sure cab is moved to transport position.
   d. Raised boom to 19 degrees and extend boom to 110 inches (279 centimeters).
   e. Rotated tophandler 90 degrees clockwise to longitudinal position and ensured tophandler is aligned with RTCH.
   f. Folded boom support.
   g. Lowered tophandler until approximately 18 inches (46 centimeters) off the ground.
   h. Opened dolly wheels storage compartment and remove ramp from stowage and then positioned against storage compartment. When installed, front and rear dolly wheels are turned toward each other (see Figure 3-164).
   i. Removed dolly wheels from storage compartment, using ramp.
   j. Installed each dolly wheel to tophandler (see Figure 3-165).
      (1) Placed dolly wheel so that tire will be under the twistlock when wheel is lifted.
      (2) Installed upper pin from outside of tophandler. Lock pin in position with retaining pin (see Figure 3-166).
      (3) Removed lower pin from dolly wheel and set aside.
   k. Stowed ramp in dolly wheels storage compartment and secured ramp with straps.
   l. Slowly pulled bogie wheels lever to raise bogie wheels.
   m. Turned bogie wheels retaining collar 1/4 turn clockwise to unlock bogie wheels, and if retaining collar is still tight, used handle stowed forward of bogie wheels to rotate shaft (see Figure 3-170).
   n. Pushed bogie wheels lever to lower bogie wheels and ensured wheels were lowered sufficiently to apply ground pressure.
   o. Opened shutoff valve #5 inside remote hydraulic control compartment by turning handle 90 degrees clockwise so bogie wheels lower further and applied correct amount of ground pressure (see Figure 3-171).
   p. Using first gear and two-wheel steering mode slowly drove RTCH forward up ramps and position inside aircraft. DID NOT exceed 1 MPH (1.6 kph) speed. Only slight steering corrections are allowed during loading.
   q. Lowered boom support to the maximum onto the frame.
   r. Shut down RTCH engine.
      (1) Tied boom to RTCH frame.
      (2) Secured RTCH to tie-down locations inside aircraft in accordance with tie-down instructions on RTCH data plate and on aircraft.

3. Unloaded RTCH-RT 240 forklift from the aircraft.
   a. Removed all tie downs.
   b. Opened shutoff valve #5 inside remote hydraulic control compartment by turning handle 90 degrees counterclockwise.
   c. Rotated bogie wheels retaining collar 1/4 turn clockwise to unlock bogie wheels.
   d. Raised boom support to 30 degree mark on frame.
   e. Using two-wheel steering mode, slowly backed RTCH down ramps. DID NOT exceed 1 MPH (1.6 kph) speed. Only slight steering corrections are allowed during unloading.
   f. Inside the remote hydraulic control compartment, closed shutoff valve #5.
   g. Inside the remote hydraulic control compartment, pulled bogie wheels lever to fully raise bogie wheels.
   h. Turned bogie wheels retaining collar 1/4 turn clockwise to lock bogie wheels in stowed position.
   i. At front of vehicle, closed both shutoff valves #6.
   j. At side of locking valve at base of each lift cylinder, loosened float valve jam nut and turn float valve clockwise until tight and retighten jam nut.
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.

Refer to ATP-45.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Supporting Reference(s):

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<th>Reference Name</th>
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<td>TM 10-3930-675-10</td>
<td>OPERATOR'S MANUAL FOR ROUGH TERRAIN CONTAINER HANDLER (RTCH); RT 240; 53,000 LB CAPACITY; 4 X 4</td>
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TADSS : None

Equipment Items (LIN): None

Materiel Items (NSN):

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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.

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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 :

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<td>551-88H-1401</td>
<td>Perform Preventive Maintenance Checks and Services on Material Handling Equipment</td>
<td>551 - Transportation (Individual)</td>
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<tr>
<td>551-88H-1541</td>
<td>Operate RT 240 Rough Terrain Container Handler (RTCH) Under Unusual Conditions</td>
<td>551 - Transportation (Individual)</td>
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<td>551-88H-1539</td>
<td>Operate RT240 Rough Terrain Container Handler (RTCH) Without a Load</td>
<td>551 - Transportation (Individual)</td>
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<td>551-88H-1540</td>
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Supported Individual Tasks : None

Supported Collective Tasks : None

Knowledges :

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<td>K-551-H-0229</td>
<td>Knowledge of air cargo operations</td>
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<td>K-551-H-0295</td>
<td>Knowledge of operation procedures for RTCH RT240 forklift</td>
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<td>K-551-H-0304</td>
<td>Knowledge of procedures for loading RTCH RT 240 forklift</td>
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<td>K-551-H-0303</td>
<td>Knowledge of procedures for preparing RTCH RT240 forklift for air movement</td>
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Skills :

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ICTL Data : None