U.S. COAST GUARD	OVERHEAD HOIST S00014.0 REV'D: 09/25/2024

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	INSPECT	ANNUAL INSPECTION	N/A

☐ SCHEDULED ☐ UNSCHEDULED

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES: OEM SERVICE MANUAL

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

1 OVERHEAD HOIST ANNUAL INSPECTION

REFERENCES:
ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT
OSHA Regulations (Standards-29CFR)

TOOLS/TEST EQUIPMENT:
NONE

EXPENDABLES:
NONE

CONSUMABLES:
Rags, Lint Free, P/N: A-A-59323, CAGE: 58536, NIIN: 001657195

NOTE: This inspection shall be completed by command designated Competent Personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT or through certified contract inspectors.

NOTE: The annual inspection may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Step 1 C 2.

NOTE: Ensure Support equipment asset is as clean as possible prior to inspection.

A PRELIMINARY STEPS

1. Ensure area is safe for maintenance.

WARNING

REFER TO THE SAFETY DATA SHEET (SDS) FOR ANY CLEANING COMPOUND USED. THE PRECAUTIONS, PROCEDURES AND SPECIAL PROTECTION INFORMATION CONCERNING THE COMPOUND SHALL BE FOLLOWED.

CAUTION

DO NOT SPRAY DIRECTLY INTO LIGHTS, WIRING HARNESSES, WIRE LOOM CONNECTORS, BEARINGS, AXLES, SHAFTS, ENGINE COMPONENTS, OR EXHAUST SYSTEMS.

CAUTION

DO NOT DIRECT SPRAY AS TO REMOVE MARKINGS OR PAINT FROM COMPONENTS.

NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.

NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.

2. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.
   a. Tape openings and seal with barrier material to prevent moisture intrusion prior to washing.
   b. Ensure exterior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants

CAUTION

THE AIR STREAM OF PREPARED (FILTERED AND DRIED AIR) SHALL BE DIRECTED AWAY FROM COMPONENTS.

NOTE: Support Equipment may be dried using compressed air. Wiping rags or wiping papers may be used provided they are linen, combed cotton, or lint free, non-woven fabric as listed by the General Services Administration (GSA).

3. Dry the support equipment.
4. Remove all barrier material.

B INSPECT

WARNING

SE ASSET SHOULD BE TAGGED AS OUT OF COMMISSION (OOC) PENDING ANNUAL INSPECTION UNTIL INSPECTION IS COMPLETE. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

NOTE: Direct access to the hoist and trolley will require use of an aerial work platform, personnel lift, scaffolding or an extension ladder.

NOTE: Ensure Support equipment asset is as clean as possible prior to inspection.

1. Access hoist and trolley unit (if applicable).
2. Inspect the manufacturer's data/identification plate, (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible.

3. Verify the following exterior markings are legible:

NOTE: See ALCOAST 223/23 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, and Safety Inspection Date markings.

a. Working Load Limit marking(s), (Refer to Figure 2)

b. Safety Inspection Date

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

NOTE: Direct access to the hoist and trolley will require use of an aerial work platform, personnel lift, scaffolding or an extension ladder.

(1) Verify inspection date is current.

c. SEPL Asset identification decal with number

d. Instruction plates

e. Unit property tag

f. Any other affixed warning decals and labels

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

4. Complete Equipment Lockout/Tags-Plus Process IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
5. Inspect exterior of hoist/motor assembly for the following:
   a. Leaks
   b. Missing, damaged, or loose hardware.
   c. Damaged protective enclosures.
   d. Evidence of corrosion, rust or cracking or peeling exterior materials.
   e. Exterior paint is smooth and not peeling.
   f. All installed fittings are properly lubricated.

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

   g. Bent, cracked, or worn accessories.
   h. Missing, loose, or poor fitting covers, panels.
   i. Verify wire harnesses are not frayed, brittle, or loose.
6. Inspect operator control pendant (Festoon) trolley(s) for damage or excessive wear, (Refer to Figure 3).
7. Inspect operator control pendant cabling for chaffing or other damage.

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

8. Inspect wire rope/chain.
   a. Lower wire rope/chain to full down position.
   b. Visually inspect the entire length of wire rope/chain for the following:
      (1) No broken strands
      (2) No crimping
      (3) No broken links
      (4) No broken welds
      (5) No corrosion
      (6) Wire rope clips are properly fastened
   c. Visually inspect rope drum for damage/corrosion.
   d. Visually inspect upper sheave(s)/sprocket(s) (as applicable)
   e. Visually inspect lower sheave(s)/sprocket(s) (as applicable)
9. Inspect lower block and hook for missing bolts or screws.
10. Inspect hook safety latch.
    a. Verify spring tension ensures contact with the hook.
11. Inspect the operator controls for the following:
    a. Proper support for Pendant Button Control
       (1) Verify presence of support cable or chain with slack in power chord.
    b. Correct labels and markings
    c. No missing or damaged buttons

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

d. No cracked or broken housing

12. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.

13. Inspect operational functionality:

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: Refer to asset operator's manual for appropriate procedures.

a. Energize motor, (local and remote stations) (as applicable)
b. Verify there are no unusual noises.
c. Verify emergency stop operation (if equipped).
d. Verify travel/motion audible signal operates (if equipped).
e. Verify the operation of the directional controls.
    (1) Shift directional controls to travel forward.
        (a) Check for proper operation.
        (b) Check brakes.
            1) Ensure hoist travel stops with coast to avoid swinging load.
    (2) Shift directional controls into neutral (if applicable).
        (a) Check for proper operation.
        (b) Check brakes.
            1) Ensure hoist travel stops with coast to avoid swinging load.
    (3) Shift directional controls to travel in reverse.
        (a) Check for proper operation.
        (b) Check brakes.
            1) Ensure hoist travel stops with coast to avoid swinging load.
    (4) Shift directional controls to travel left.
        (a) Check for proper operation.
        (b) Check brakes.
    (5) Shift directional controls to travel right.

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: Refer to asset operator's manual for appropriate procedures.

(a) Check for proper operation.

(b) Check brakes.

1) Ensure hoist travel stops with coast to avoid swinging load.

(6) Raise the lifting assembly.

(a) Verify the hoist travel is smooth without hesitation.

(b) Verify proper operation of the upper limit switch.

1) Ensure hook assembly does not contact the drum or any other parts.

(7) Lower the lifting assembly.

(a) Verify the hoist travel is smooth without hesitation.

(b) Verify proper operation of lower limit switch.

1) Ensure hook does not reach the floor.

C FINAL STEPS

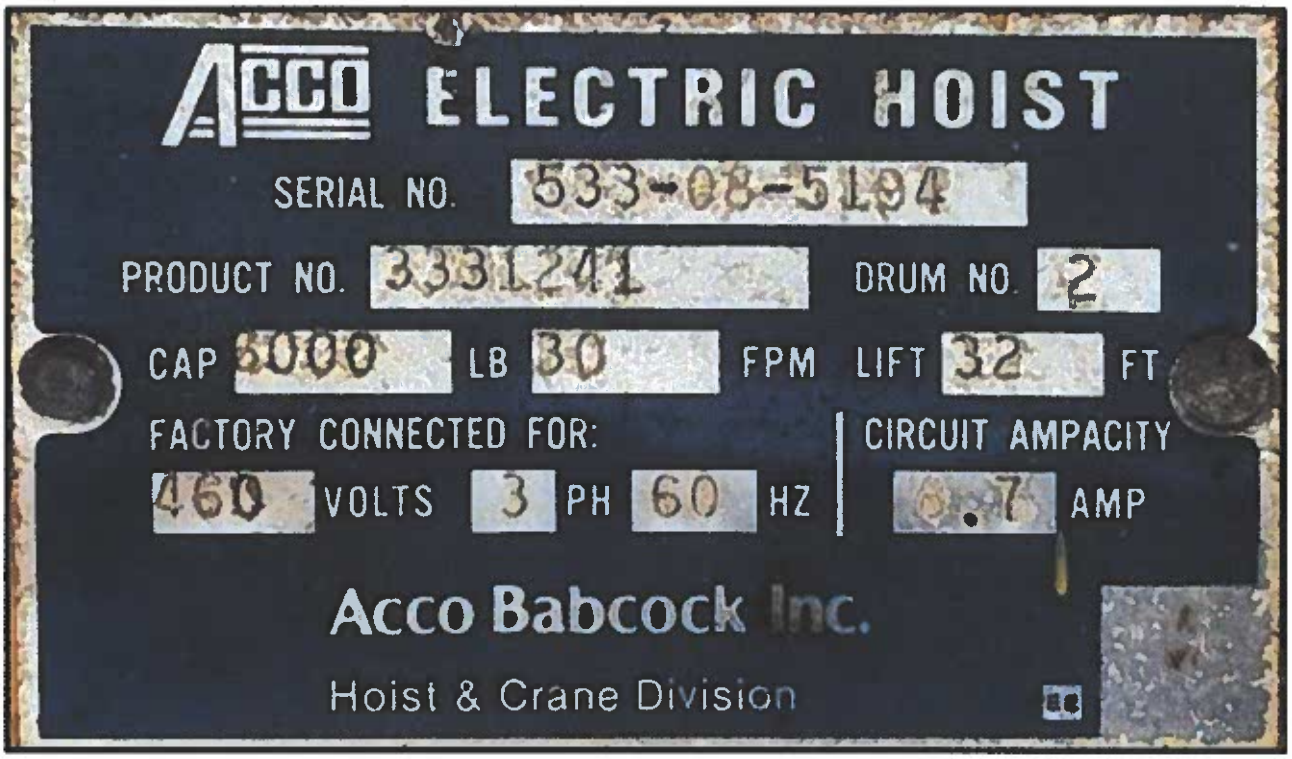
1. Secure and stow asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

2. Document completion and any discrepancies found.



SAMPLE DATAPLATE
Figure 1

SAMPLE WEIGHT LOAD LIMIT STENCIL
Figure 2

SAMPLE FESTOON TROLLEY SYSTEM
Figure 3

U.S. COAST GUARD	OVERHEAD HOIST P30006.0 REV'D: 09/25/2024

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	TEST	LOAD TEST	N/A

ASSET SERIAL NUMBER	ELAPS/TIME CLOCK/ ECM HOUR READING

☐ SCHEDULED ☐ UNSCHEDULED

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE_____ HOURS___.__ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES: OEM SERVICE MANUAL

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

Page 1 of 10

1 OVERHEAD HOIST LOAD TEST

REFERENCES:
ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT

TOOLS/TEST EQUIPMENT
TEST WEIGHT MATERIAL

EXPENDABLES:
NONE

CONSUMABLES:
NONE

A PRELIMINARY STEPS

NOTE: This load test shall be completed by command designated Competent personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT

NOTE: The annual load test may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Step 1 C 2.

1. Ensure area is safe for maintenance.
2. Ensure asset annual inspection date is current.

NOTE: Use of specialized or certified test weights is not required, the weight of the test load must be determined through accurate and reliable means. Units may use organic resources for test weight materials as long as they are independently weighed prior to use.

3. Gather test weight material matching the maximum rated load specification as indicated in the operations manual.
4. Weigh the test weight material(s) to be lifted to ensure the accuracy to be within plus or minus five percent of rated capacity.

B TEST

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

SE ASSET SHOULD BE TAGGED AS OUT OF COMMISSION (OOC) PENDING ANNUAL LOAD TEST UNTIL TESTING IS COMPLETE. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

WARNING

DUE TO THE HEIGHT OF THE OVERHEAD HOIST, IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE OVERHEAD HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING

DANGEROUS VOLTAGES ARE PRESENT WHEN EQUIPMENT IS OPEN AND ENERGIZED. DO NOT WORK ALONE.

NOTE: Direct access to the hoist and trolley will require use of an aerial work platform, personnel lift, scaffolding or an extension ladder.

1. Refer to asset data plate for maximum load capacities, (Refer to Figure 1).

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

TO ENSURE THE SAFETY OF ALL PERSONNEL INVOLVED IN THE LOAD TESTING, BRIEF ALL PERSONNEL OF TEST TO BE PERFORMED AND POSSIBLE HAZARDS. ALSO, NEVER EXCEED THE SPECIFIED TEST WEIGHT AND ENSURE THAT ALL PERSONNEL ARE WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

WARNING

NEVER EXCEED 125% OF RATED LOAD CAPACITY. FAILURE TO COMPLY MAY CAUSE SERIOUS EQUIPMENT FAILURE AND/OR PERSONAL INJURY.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

NOTE: Refer to asset operator's manual for appropriate procedures.

2. Perform load test.
   a. Load the test weight material into SEPL authorized rigging apparatus.
   b. Raise the load to a height of 6-8 inches for a minimum of 2 minutes to ensure the hoist doesn't lower or drop the load.
   c. Shift directional controls to travel forward.
      (1) Ensure hoist travels entire length of forward travel.
      (2) Check Brakes.
         (a) Ensure hoist travel stops with coast to avoid swinging load.
   d. Shift directional controls to travel in reverse.
      (1) Ensure hoist travels entire length of reverse travel.
      (2) Check Brakes.
         (a) Ensure hoist travel stops with coast to avoid swinging load.

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

TO ENSURE THE SAFETY OF ALL PERSONNEL INVOLVED IN THE LOAD TESTING, BRIEF ALL PERSONNEL OF TEST TO BE PERFORMED AND POSSIBLE HAZARDS. ALSO, NEVER EXCEED THE SPECIFIED TEST WEIGHT AND ENSURE THAT ALL PERSONNEL ARE WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

WARNING

NEVER EXCEED 125% OF RATED LOAD CAPACITY. FAILURE TO COMPLY MAY CAUSE SERIOUS EQUIPMENT FAILURE AND/OR PERSONAL INJURY.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

NOTE: Refer to asset operator's manual for appropriate procedures.

e. Shift directional controls to travel right.
   (1) Ensure hoist travels entire length of right travel.
   (2) Check Brakes.
      (a) Ensure hoist travel stops with coast to avoid swinging load.

f. Shift directional controls to travel left.
   (1) Ensure hoist travels entire length of left travel.
   (2) Check Brakes.
      (a) Ensure hoist travel stops with coast to avoid swinging load.

g. Raise the load to maximum for a minimum of 2 minutes to ensure the hoist doesn't lower or drop the load.

h. Return load to deck level.

C FINAL STEPS

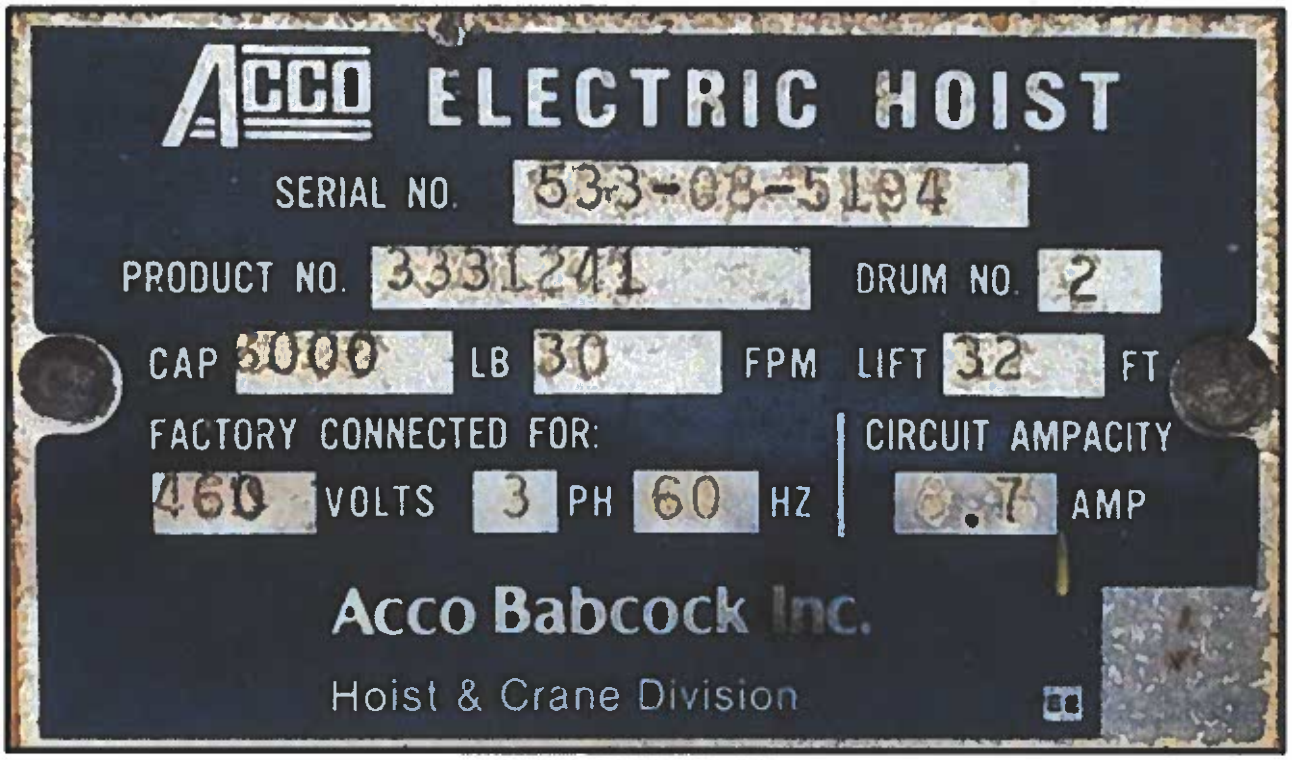
1. Remove test weight materials.
2. Secure and stow asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

3. Document completion and any discrepancies found.



SAMPLE DATAPLATE

Figure 1

SAMPLE WEIGHT LOAD LIMIT STENCIL

Figure 2

SAMPLE FESTOON TROLLEY SYSTEM
Figure 3

U.S. COAST GUARD	MOBILE CRANE S00017.0 REV'D 05/01/2025

SEPL ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	

SERIAL NUMBER TRACKED ITEM-ALL INFORMATION REQUIRED

ITEM NO [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	INSPECT	ANNUAL INSPECTION	N/A

S/N:	FIELD NO:	Location:
P/N:	MFR:	DATE OF MFG:

DISCREPANCIES FOUND: NO YES

MAN HOURS: Rate Hours . Rate Hours . Rate Hours .

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

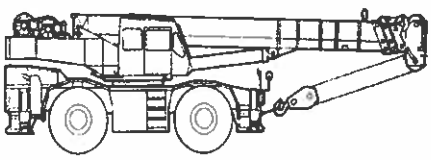
REMARKS: _____

TECHNICIAN'S SIGNATURE: _____ TECHNICIAN'S ID: _____

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:
OEM Service Manual
29 CFR 1910.179

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



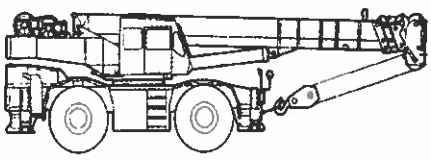
1 MOBILE CRANE ANNUAL INSPECTION

REFERENCES:
NONE

TOOLS/TEST EQUIPMENT:
Compressor, Air, P/N: N/A, CAGE: N/A, NIIN: N/A (If required)
Gauge, Tire, P/N: N/A, CAGE: N/A, NIIN: N/A (Range as per OEM specification)
Tester, Antifreeze, P/N: N/A, CAGE: N/A, NIIN: N/A (Or equivalent)
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (Range as per OEM specification)

EXPENDABLES:
NONE

CONSUMABLES:
Antifreeze, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Compound, Corrosion Preventative, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Fluid, Brake, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Fluid, Hydraulic, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Fluid, Power Steering, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Fluid, Transmission, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Fluid, Windshield Washer, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Oil, Engine, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)
Water, Distilled, P/N: N/A, CAGE: N/A, NIIN: N/A (Or OEM spec. equivalent) (If required)



A PRELIMINARY STEPS

1. Ensure area is safe for maintenance.

CAUTION

DO NOT SPRAY DIRECTLY INTO LIGHTS, WIRING HARNESSES, WIRE LOOM CONNECTORS, BEARINGS, AXLES, SHAFTS, ENGINE COMPONENTS, OR EXHAUST SYSTEMS.

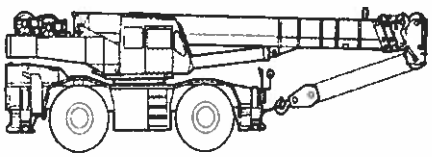
CAUTION

DO NOT DIRECT SPRAY AS TO REMOVE MARKINGS OR PAINT FROM COMPONENTS.

NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.

NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.

2. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.
   a. Tape openings and seal with barrier material to prevent moisture intrusion prior to washing.
   b. Ensure exterior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants
   c. Ensure interior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants



CAUTION

THE AIR STREAM OF PREPARED (FILTERED AND DRIED AIR) SHALL BE DIRECTED AWAY FROM COMPONENTS.

NOTE: Support Equipment may be dried using compressed air. Wiping rags or wiping papers may be used provided they are linen, combed cotton, or lint free, non-woven fabric as listed by the General Services Administration (GSA).

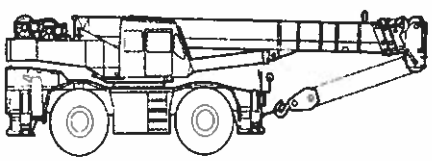
3. Dry the support equipment.

B INSPECT

NOTE: Annual inspections for mobile cranes will still require a third-party contracted vendor certification and inspection by an individual that meets inspector criteria established in 29 CFR 1910.178. This is due to the complexity of crane equipment, the test equipment required, and the certification requirements needed by the individual. The command responsible for the asset must provide the contracted vendor with this SEPL approved MPC for mobile cranes. Vendors must meet or exceed the inspection criteria listed and are expected to provide the command with a dated certificate of inspection containing any discrepancies or deficiencies that require repair. The unit can use this deficiency report to submit a Technical Equipment Authorization Request (TEAR) to the SEPL on the SharePoint site.

NOTE: Completion of the annual inspection shall be annotated in Step 1 C 2.

1. Inspect the manufacturer's data/identification plate, (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible.



WARNING

THE LOAD CHART MUST BE SPECIFIC TO THE ASSET. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

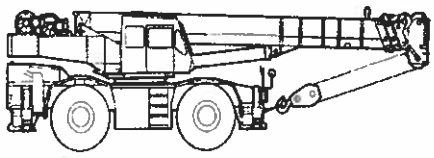
2. Verify the load chart specific to the piece of equipment is available on the asset, (Refer to Figure 2):
   a. Verify the load chart is legible.
3. Check capacity signs and load ratings.
   a. Inspect capacity signs and brackets for the following:
      (1) Damage or deterioration.
      (2) Evidence of loose or missing fasteners.
   b. Verify that load ratings are:
      (1) Correct
      (2) Noted in pounds.
      (3) Visible or otherwise available to the operator and riggers.

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

4. Complete Equipment Lockout/Tags-Plus Process IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
5. Inspect machinery house and operator's cab.
   a. Check for leaks, broken glass, deterioration and cleanliness.
   b. Verify proper operation of the following:
      (1) Louvers
      (2) Doors
         (a) Inspect door seals for damage, deterioration, and proper fit.
      (3) Windows
      (4) Windshield wipers
      (5) Heater (particularly combustion heaters)
      (6) Air conditioner
      (7) Operator's chair
         (a) Seat is not missing, loose or damaged.



(b) Restraint system/seat belt is equipped and functional.

(8) Communication equipment

WARNING

ENSURE ALL DOORS, HATCHES AND PANELS ARE PROPERLY SECURED UPON OPENING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

c. Inspect the operator controls (local and remote) for the following:

(1) Correct labels and markings

(2) Move freely through all positions.

(3) Handles, levers, and buttons are securely fastened.

(4) Loose or broken springs

(5) Pitted or burned contact points.

(6) Broken segment dividers and insulators

(7) Evidence of worn cams, pins, rollers, or chains

(8) Evidence of loose connections

(9) Proper contact pressure

(10) Proper lubrication for the following:

(a) Bearings

(b) Star wheels

(c) Pawls

(11) Proper spring return

(12) Neutral latching

(13) Inspect wiring for the following:

(a) Damage

(b) Deterioration

(c) Evidence of loose connections

(14) Pedals are equipped with rubber pads or non-slip coating.

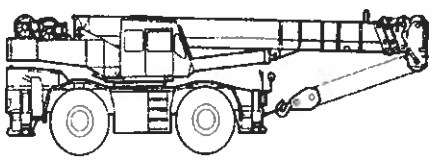
(15) Inspect Dash Gauges for the following.

(a) Legible

(b) Properly marked

(c) Proper condition

(d) Wiring has no damage or deterioration, or evidence of loose connections.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(16)Inspect Load Indicators

(a) Check wiring for damage or deterioration, and for evidence of loose connections.

(17)Inspect Load Warning Devices

(a) Check wiring for damage or deterioration, and for evidence of loose connections.

(18)Inspect Load Shutdown Devices

(a) Check wiring for damage or deterioration, and for evidence of loose connections.

(19)Inspect Drum Rotation Indicators

(a) Check wiring for damage or deterioration, and for evidence of loose connections.

(b) Verify proper operation.

NOTE: Conduct Radius/Boom Angle Indicator inspection at the minimum and maximum boom operating positions.

(20) Inspect Radius/Boom Angle Indicator

(a) Verify radius indications by comparing against measured radii at the minimum and maximum boom operating positions.

(b) Verify boom angle indications by comparing the indicated boom angle to the boom angle on the load chart corresponding to the boom length and measured radius.

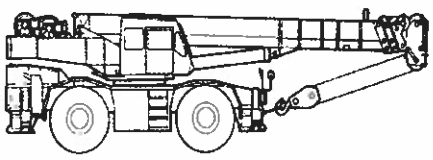
(21) Verify horn operation.

(22) Verify mirrors are clean and free of damage. (if applicable)

6. Verify the following exterior markings are legible:
   a. Fuel type marking (e.g., DIESEL FUEL ONLY)
   b. Battery identification plate or marking

NOTE: See ALCOAST 223/23 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, Vehicle Weight and Safety Inspection Date markings.

   c. Working Load Limit marking(s) on the sides and mast)
   d. Vehicle weight marking(s)
   e. Safety Inspection Date
      (1) Verify inspection date is current.
   f. SEPL Asset identification decal with number



WARNING

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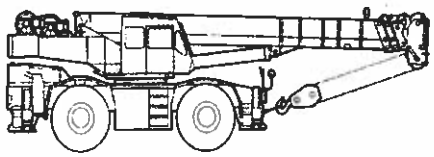
NOTE: Some assets may require removal of panels attached with hardware for increased access.

g. Instruction plates
h. Unit property tag
i. Any other affixed warning decals and labels
j. Tire pressure marking (as required)

7. Inspect the equipment exterior for the following:
   a. Missing, damaged, or loose hardware.
   b. Damaged body panels or protective enclosures.
   c. Damaged or dry rotted windshield wipers. (if applicable)
   d. Fluid on the floor/deck under the equipment
   e. Evidence of corrosion, rust or cracking or peeling panel materials
   f. Exterior paint is smooth and not peeling.
   g. Bent, cracked, or worn accessories.
   h. Missing, loose, or poor fitting covers, panels.
   i. Damaged overhead guard
   j. Hydraulic lines are free of paint, routed correctly and secured.
   k. Inspect handrails for the following:
      (1) Damage
      (2) Deterioration
      (3) Cracked welds.
      (4) Evidence of loose or missing fasteners
   l. Inspect walkways for the following:
      (1) Damage
      (2) Deterioration
      (3) Cracked welds.
      (4) Evidence of loose or missing fasteners
   m. Inspect ladders for the following:
      (1) Damage
      (2) Deterioration
      (3) Cracked welds.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(4) Evidence of loose or missing fasteners

n. Inspect personnel safety guards for the following:

(1) Damage

(2) Deterioration

(3) Cracked welds.

(4) Evidence of loose or missing fasteners

o. Inspect counterweight for the following:

(1) Damage

(2) Deterioration

(3) Cracked welds.

(4) Evidence of loose or missing fasteners

p. Inspect counterweight support structure for the following:

(1) Damage

(2) Deterioration

(3) Cracked welds.

(4) Evidence of loose or missing fasteners

q. Inspect steering components for the following:

(1) Damage

(2) Deterioration

(3) Cracked welds.

(4) Evidence of loose or missing fasteners

r. Inspect Rotate Path Assembly

(1) Inspect spider assembly for the following:

(a) Damage

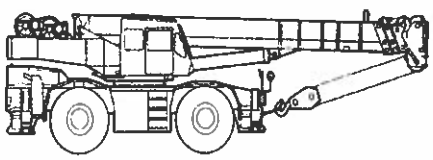
(b) Deterioration

(c) Cracked welds.

(d) Evidence of loose or missing fasteners

(2) Inspect roller path for the following:

(a) Damage



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(b) Deterioration

(c) Cracked welds.

(d) Evidence of loose or missing fasteners

(3) Inspect rollers for the following:

(a) Uneven wear

(b) Flat spots

(c) Chips

(d) Flange wear.

(e) Cracks

(f) Deterioration

(g) Proper lubrication

(h) Cracked welds.

(i) Evidence of loose or missing fasteners

s. Inspect Center Collector Assembly (electric or hydraulic) for the following:

(1) Loose or bent supports

(2) Worn brushes.

(3) Proper spring tension

(4) Loose hydraulic connections

(5) Defective hydraulic tubing

(6) Hydraulic leaks

(7) Damaged or deteriorated wiring

(8) Loose wiring connections

t. Inspect Center Pin Steadiment and Support Assembly for the following:

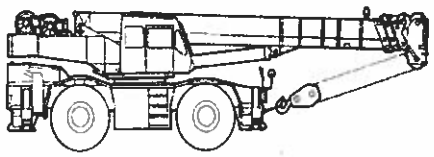
(1) Damaged components

(2) Deteriorated components

(3) Proper lubrication

(4) Evidence of loose or missing fasteners

u. Inspect Slewing Ring Bearings.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(1) Inspect expelled lubricant for evidence of metal flakes, or metal or plastic particles.

(2) Inspect fasteners for proper tightness.

(3) Follow manufacturer's recommendations for bearing wear inspection.

v. Check axles for proper lubrication.

w. Inspect all wheels as follows:

(1) Remove foreign material from tire treads.

(2) Inspect the rims for dents, bends, and/or cracks.

(3) Ensure all wheel lugs are properly secured and torqued to OEM specifications.

(4) Ensure tires are correct type, size, and have proper tread condition in accordance with OEM service manual.

x. Inspect wheels and tires as follows:

(1) Inspect the wheels for the following:

(a) Dents

(b) Bends

(c) Cracks

(d) Attachment hardware is torqued properly in accordance with OEM service manual.

(2) Inspect the tires for the following:

(a) Correct type

(b) Correct size

(c) Tread condition.

(d) Scrapes

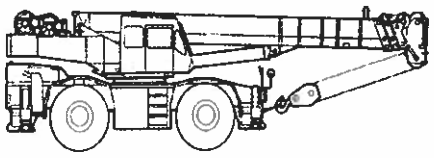
(e) Bulges

(f) Cuts

(g) Foreign object damage

(h) Dry rot

(i) Irregular wear



WARNING

TIRES AND WHEELS CAN COME APART WITH EXPLOSIVE FORCE IF NOT HANDLED PROPERLY. USE EXTREME CARE WHEN HANDLING OR INFLATING TIRES.

(3) Ensure tire pressure (if applicable) is within the manufacturer's specifications.

(a) Add air as needed to meet manufacturers' specifications.

y. Inspect outrigger assemblies for the following:

(1) Damage

(2) Deterioration

(3) Evidence of loose or missing fasteners

NOTE: During the inspection, pay the wire rope out as far as possible. For sections that cannot be spooled off the drum, visual inspection of the wire rope on the drum is sufficient.

z. Inspect wire rope assembly.

(1) Lower wire rope/chain to full down position.

(2) Verify that at least two complete wraps of wire rope remain on grooved drums or at least three complete wraps on ungrooved drums.

Note: Inspection of extend/retract cables internal to telescoping booms may be limited to inspection through boom inspection ports

(3) Visually inspect the entire length of wire rope/chain for the following:

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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(a) No broken strands

(b) No crimping

(c) No broken links

(d) No broken welds

(e) No corrosion

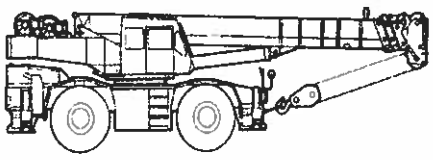
(f) Wire rope clips properly fastened.

(4) Visually inspect rope drum(s) for the following:

(a) Distortion

(b) Cracks

(c) Worn grooves.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(d) Cracked Welds

(e) Corrosion

(f) Evidence of loose or missing fasteners

(g) Evidence of vibration

(h) Evidence of overheating

(i) Other evidence of component wear, bearing damage or misalignment

NOTE: Pay special attention to possible cracks in cast iron pillow blocks loaded in shear and tension.

(5) Inspect pillow blocks for the following:

(a) Damage

(b) Loose or missing fasteners

(c) Cracks caused by over-tensioned fasteners.

(6) Inspect wire rope followers for proper adjustment and alignment.

(7) Inspect bearings for evidence of the following:

(a) Damage

(b) Overheating

(c) Abnormal wear

(8) Inspect machinery foundations for the following:

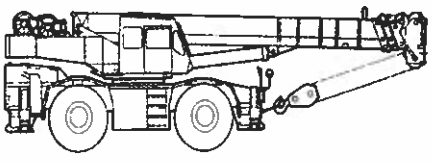
(a) Damaged components

(b) Deteriorated components

(c) Cracked welds.

(d) Evidence of loose or missing fasteners

(9) Expose and examine sections in contact with equalizer sheaves and saddles or where corrosion may develop because of poor drainage.



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WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH LUBRICANT. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE AND STORE IN A COOL, WELL-VENTILATED AREA. KEEP CONTAINER CLOSED. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(a) Lubricate areas after inspection with OEM approved lubricant.

(10) Inspect the following for undue looseness, wear, cracks, corrosion, and any other damage:

NOTE: Evidence of looseness between the securing material and the basket resulting solely from seating of the material in the basket is acceptable.

NOTE: Drum end fittings need only be disconnected or disassembled when experience or visible indications deem it necessary.

NOTE: Undue looseness in poured sockets is defined as looseness or evidence of slippage of wires in the securing material, evidence of deterioration of the securing material, looseness of wire rope strands or wires adjacent to the socket, or any looseness resulting from cracks or other defects in the basket.

(a) Poured sockets.

(b) Wedge sockets

(c) Swage fittings.

NOTE: Hoist block assemblies include hoist blocks, cheek plates, swivels, trunnions, and lubrication fittings.

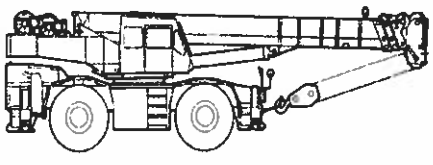
a. Inspect Boom structural components for the following:

NOTE: Remove wire rope buffer blocks to ensure they are not hiding boom corrosion.

(1) Damaged, distorted, or deteriorated members

(2) Evidence of loose or missing fasteners

(3) Cracked welds.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(4) Proper lubrication of support pins

(5) Drain holes are clear.

b. Inspect telescoping boom (if applicable) for the following:

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(1) Proper lubrication

(2) Wear pad condition.

(a) Check for evidence of abnormally worn pads.

(b) Check for improperly adjusted pads.

(3) Drain holes are clear.

c. Inspect Sheaves

(1) Check sheaves for the following:

(a) Abnormally worn or corrugated grooves

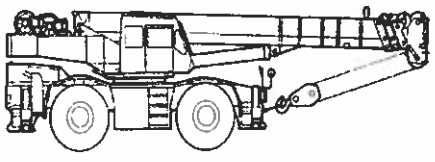
(b) Flat spots

(c) Abnormal play

(d) Broken or cracked flanges

(e) Evidence of loose or missing fasteners

(f) Evidence of loose or missing lubrication fittings



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(g) Check for improperly adjusted pads.

(2) Drain holes are clear.

(3) Gauge the wire rope grooves of all sheaves.

(a) Compare measurements with OEM limits.

d. Inspect Travel Trucks for the following:

(1) Damage

(2) Deterioration

(3) Loose or missing fasteners

(4) Cracked welds

(5) Proper lubrication

e. Inspect Equalizers for the following:

(1) Damage

(2) Deterioration

(3) Loose or missing fasteners

(4) Cracked welds

(5) Proper lubrication

f. Inspect Gudgeons for the following:

(1) Damage

(2) Deterioration

(3) Loose or missing fasteners

(4) Cracked welds.

(5) Proper lubrication

g. Inspect Gudgeon Pins for the following:

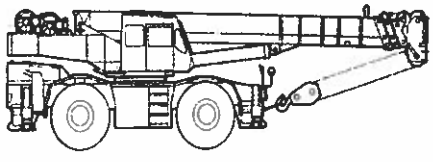
(1) Damage

(2) Deterioration

(3) Loose or missing fasteners

(4) Cracked welds.

(5) Proper lubrication



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

h. Inspect Retainers for the following:

(1) Damage

(2) Deterioration

(3) Loose or missing fasteners

(4) Cracked welds.

(5) Proper lubrication

NOTE: Structural Components include the following: Portal Base, Boom A-Frame, Tower, Stiff legs, Support pins, Retainers (except mobile crane boom)

NOTE: Wire rope buffer blocks must be removed to ensure they are not hiding boom corrosion.

i. Inspect Structural Components for the following:

(1) Damaged members

(2) Distorted members

(3) Deteriorated members

(4) Loose or missing fasteners

(5) Cracked welds.

(6) Support pins are properly lubricated.

(7) Drain holes are clear.

j. Inspect Hoist Block assemblies for the following:

(1) Damage

(2) Deterioration

(3) Cleanliness

(4) Freedom of movement

(5) Evidence of loose or missing fasteners

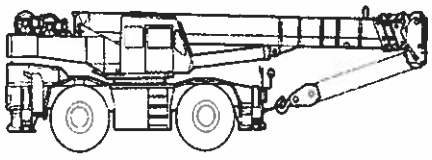
(6) Mousing devices have no damage.

(7) Evidence of bearing damage, overheating or abnormal wear

k. Inspect drip pans and gaskets for the following:

(1) Damage

(2) Proper clearance per OEM service manual



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(3) Evidence of loose or missing fasteners

NOTE: Conductive contaminants include graphite, grease, metallic particles, and rust streaks.

l. Inspect Insulated Link surface for the following:

(1) Conductive contaminants

(2) Damage

NOTE: The hook will be removed from service if there is any bending or twisting of the hook exceeding 10° (or as recommended by the manufacturer) from the plane of the unbent hook. Make no attempt to straighten bent or twisted hooks. Where normal wear or removal of defects results in a reduction of 10 percent or more of the manufacturer's nominal dimension, the hook shall be discarded.

NOTE: Hooks and nuts shall not be painted or plated, but a clear corrosion preventative coating may be applied.

m. Inspect hook(s) for the following:

(1) Evidence of wear in swivels and pins

(2) Proper operation and condition of safety latches

(3) Corrosion, deformation, and wear

(4) Nicks, cracks, or gouges

n. Inspect the fire extinguisher cylinder (if applicable).

(1) Check that the gauge is registering in the green (as required)

(2) Check that the wire seal has not been broken.

(3) Verify inspection tag data is current.

(4) Check nozzle and hose for defects and damage.

8. Inspect the engine/motor compartment:

a. Open all compartment access points.

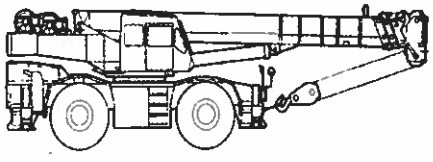
b. Verify no missing, damaged, or loose hardware.

c. Verify any insulation is properly attached.

d. Inspect engine wiring for damage or deterioration and for evidence of loose connections.

e. Inspect throttle linkage for evidence of loose and/or damaged components.

f. Inspect throttle governor.



WARNING

ENSURE ALL DOORS, HATCHES AND PANELS ARE PROPERLY SECURED UPON OPENING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(1) Check linkage for evidence of binding, looseness, and damaged parts.

WARNING

AVOID EYE AND SKIN CONTACT WITH OIL. KEEP AWAY FROM ALL SOURCES OF IGNITION. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: All fluid levels and pneumatic pressures should be verified against levels/pressures identified in the OEM Service Manual for the asset being inspected.

(2) Inspect for proper oil level.

(a) Add OEM recommended governor oil as needed to raise the level within manufacturers' specifications.

g. Inspect starter for the following:

(1) Damaged or deteriorated wiring

(2) Evidence of loose connections

(3) Proper lubrication

h. Inspect air starting lines (if applicable) for the following:

(1) Evidence of damage

(2) Loose connections

(3) Lubricators at proper lubrication level

(4) Leakage

i. Inspect clutch-main drive

(1) Check linkage for evidence of binding, loose and worn components.

(2) Check for proper lubrication and adjustment.

j. Inspect Exhaust System for the following:

(1) Holes

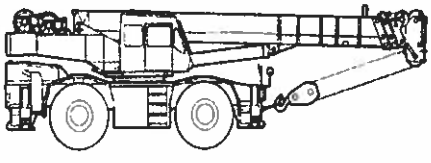
(2) Damaged gaskets

(3) Evidence of loose or missing fasteners

(4) Proper insulation

k. Check the hydraulic system.

(1) Inspect the hydraulic tank for damage.



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WARNINGAVOID EYE AND SKIN CONTACT WITH HYDRAULIC FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION. USE IN A WELL-VENTILATED AREA. WASH EXPOSED SKIN AND CONTAMINATED CLOTHING THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(2) Check the hydraulic fluid level.

(a) Add OEM recommended hydraulic fluid as needed to raise the level within manufacturers' specifications.

l. Check the engine oil level.

WARNING

AVOID EYE AND SKIN CONTACT WITH OIL. KEEP AWAY FROM ALL SOURCES OF IGNITION. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended engine oil as needed to raise the level within manufacturers' specifications.

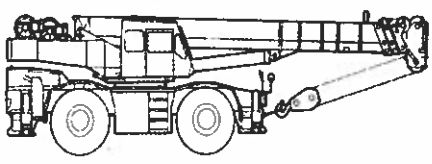
m. Check the transmission fluid level.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, AND INHALATION WITH AUTOMATIC TRANSMISSION FLUID. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN AND CONTAMINATED CLOTHING THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended transmission fluid as needed to raise the level within manufacturers' specifications.

n. Check power steering fluid level.



WARNING

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WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH POWER STEERING FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(1) Add OEM recommended power steering fluid as needed to raise the level within manufacturers' specifications.

o. Check brake fluid level.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH BRAKE FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROTECTIVE GLOVES REQUIRED. USE OF SPLASH PROOF GOGGLES AND/OR FACESHIELD REQUIRED DURING USE. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended brake fluid as needed to raise the level within manufacturers' specifications.

p. Check the fuel system.

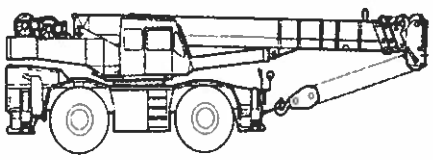
(1) Inspect fuel tank for the following:

(a) Leaks

(b) Corrosion

(c) Evidence of loose or missing fasteners

(d) Proper venting



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WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH KEROSENE, DIESEL, AND/OR FUEL. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(2) Check the fuel filter housing for signs of leakage.

(3) Check the fuel-water separator (if applicable).

(a) Drain as required.

(4) Check the fuel level.

(a) Add OEM recommended fuel as needed within manufacturers' specifications.

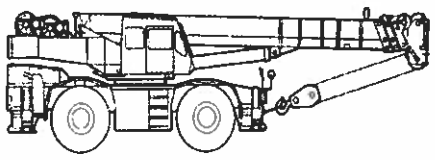
WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH diesel exhaust fluid (DEF). KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Diesel Exhaust Fluid (DEF), commonly referred to as AdBlue in Europe, is an emissions control liquid required by modern diesel engines. It is injected into the exhaust system. DEF is never added to diesel fuel. It is a non-hazardous solution of 32.5% urea in 67.5% de-ionized water. It has a slight smell of ammonia, similar to home cleaning agents. DEF is used in Selective Catalytic Reduction technology to remove harmful NOx emissions from diesel engines.

(5) Check the DEF level (if applicable).

(a) Add OEM recommended DEF as needed within manufacturer's specifications.



WARNING

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WARNING

CHECK THE COOLANT LEVEL ONLY WHEN THE ENGINE IS STOPPED. WAIT UNTIL THE TEMPERATURE IS BELOW 50°C [120°F]. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

q. Check the engine coolant system.

(1) Inspect coolant hoses for leaks or damage.

(2) Check radiator fluid for cleanliness, evidence of leakage, and coolant level.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH COOLANT. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROTECTIVE GLOVES REQUIRED. USE OF SPLASH PROOF GOGGLES AND/ OR FACESHIELD REQUIRED DURING USE. WASH EXPOSED SKIN THOROUGHLY AND IMMEDIATELY REMOVE CONTAMINATED CLOTHING AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

(a) Add OEM recommended coolant as needed to raise the level within manufacturers' specifications.

NOTE: Support Equipment will have a minimum 50 percent antifreeze mixture at all times, or arctic antifreeze protection (-25 degrees of protection)

(b) Check freeze protection level of coolant/antifreeze.

1) Open the reservoir cap.

2) Take a sample of coolant/antifreeze with ANTIFREEZE COOLANT TESTER, NSN 6630-00-247-2968 OR EQUIVALENT, P/N GG-T-250.

3) Close the reservoir cap while you check the coolant to prevent dirt getting in the system.

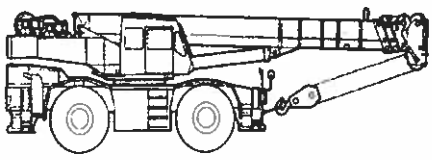
4) Check the coolant in the tester.

5) Verify freeze protection level is within OEM specifications.

NOTE: If there are any signs of dirt or particles or its protection is fading, it's worth replacing the coolant/antifreeze.

6) Visually inspect coolant/antifreeze in tester.

(3) Inspect fan shroud for security, evidence of corrosion, and/or cracking.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(4) Inspect radiator hoses and clamps for leakage, deterioration, and security.

(5) Inspect water pump for leakage.

(6) Inspect heat exchanger for the following:

(a) Oil leaks.

(b) Water leaks

(c) Evidence of loose or missing fasteners

(7) Inspect cleanliness of radiator fins/coils.

NOTE: Belt tension may be checked by a firm push with the thumb at a point midway between the pulleys. A properly adjusted belt will depress 3/8 to 1/2 inch.

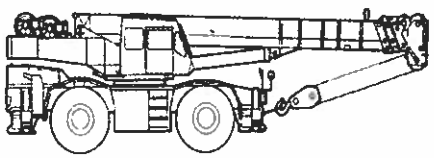
r. Inspect drive belts for cracks, deterioration, fraying, excessive wear, and proper tension.

WARNING

AVOID EYE AND PROLONGED SKIN CONTACT WITH WINDSHIELD WASHER FLUID. AVOID BREATHING CONCENTRATED VAPORS. CONTAINS DILUTED ISOPROPYL ALCOHOL OR OTHER CHEMICAL TO PROTECT AGAINST FREEZING. WASH THOROUGHLY AFTER USE.

s. Check windshield washer reservoir fluid level (if applicable).

(1) Add OEM recommended windshield washer fluid (or equivalent) as needed to raise the level within manufacturers' specifications.



WARNING

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WARNING

LEAD/ACID STORAGE BATTERIES CONTAIN LEAD, ARSENIC, AND SULFURIC ACID (KNOWN CARCINOGENS). AVOID EYE AND SKIN CONTACT. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. WEAR CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD, RUBBER GLOVES, AND APRON. USE IN WELL-VENTILATED AREA. AVOID INHALATION AND INGESTION. CAUSES RESPIRATORY DAMAGE, BURNS OF THE MOUTH, THROAT, AND INTESTINAL TRACT. WEAR HALF MASK WITH DUST AND ACID MIST FILTER IF MIST IS PRESENT. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH BATTERY ACID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

t. Inspect Alternator/Generator

(1) Inspect for cleanliness and proper lubrication.

(2) Inspect external wiring for the following:

(a) Damage

(b) Deterioration
(c) Oil or grease contamination.

(d) Evidence of loose connections

u. Inspect Voltage Regulator for evidence of loose or damaged wires and connections.

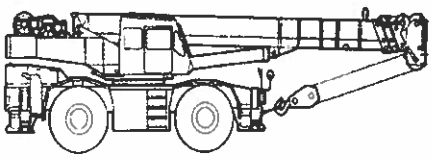
v. Inspect Battery(s)

(1) Verify battery mounts and hold downs are secure.

(2) Verify battery(s) are fully charged.

(3) Use a good voltmeter or multimeter to determine the open circuit voltage (OCV) without any load applied to the battery.

(4) Verify voltage is within OEM specifications.



CAUTION

GEL BATTERIES DO NOT REQUIRE AN ELECTROLYTE CHECK. ATTEMPTING TO ACCESS INTERNAL COMPONENTS WILL DAMAGE THE BATTERY.

(5) Verify electrolyte level within batteries.

CAUTION

ADDING DISTILLED WATER WHEN A BATTERY IS NOT FULLY CHARGED CAN RESULT IN ELECTROLYTE OVERFLOW. ELECTROLYTE LEVELS EXPAND AND CAUSE THE BATTERY TO OVERFLOW AND BECOME DAMAGED.

(a) Add distilled water as needed to raise the level within manufacturers' specifications.

(6) Inspect the battery connections for the following:

(a) Properly coated with corrosion preventative (Corrosion Preventative Compound NSN: 8030-01-631-4012 (OR EQUIVALENT))

(b) Positive post properly covered.

(c) Battery cable damage, cuts, and abrasions

(d) Securely fastened to connector lugs

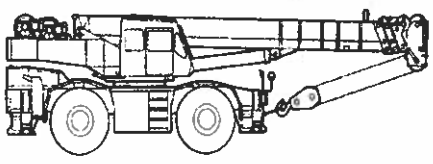
(e) Free of rust and/or corrosion

(f) Signs of arcing

(g) Pitting

(h) Exposed conductor material

(i) Loose connections



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

(j) Signs of arcing

(k) Pitting

(l) Exposed conductor material

(m) Loose connections

w. Verify wire harnesses are not frayed, brittle, or loose.

x. Verify engine belts are not frayed, brittle, or loose.

y. Check Air Cleaner

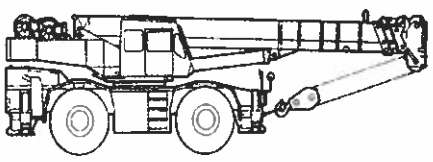
(1) Inspect mounting brackets for evidence of loose or missing fasteners.

(2) Inspect for proper oil level

(3) Inspect for proper condition of filter element.

(4) Verify air cleaner restriction indicator (if applicable) is functioning.

z. Inspect Turbocharger (if applicable for evidence of loose or missing mounting bolts and parts.



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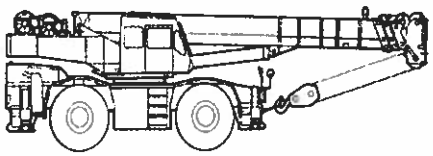
NOTE: Some assets may require removal of panels attached with hardware for increased access.

NOTE: Electric components include Control Panels, Relays, Coils, Transfer and Disconnect Switches, Conductors and Electronic (Solid State) Drive Control Systems.

9. Inspect electrical components.
   (1) Inspect (without removing) contacts for the following:
      (a) Proper alignment
      (b) Pitting
      (c) Evidence of excess heating
      (d) Evidence of arcing
   (2) Inspect transfer and disconnect switches, conductors, coils and contact leads, and shunts for insulation breakdown, missing hardware, and evidence of overheating.
   (3) Inspect wiring for damage, deterioration, and evidence of loose connections.
   (4) Inspect fuses for proper ratings and type, for evidence of loose connections and overheating.
   (5) Inspect overload devices for evidence of loose connections and overheating.
   (6) Inspect circuit breakers and switches for cleanliness and proper operation.
   (7) Inspect panel boards and arc shields for cracks, evidence of loose or missing fasteners, cleanliness, and moisture.
   (8) Manually operate relays, switches, contactors, and interlocks and verify that all moving parts operate freely without binding or excessive play.
   (9) Inspect enclosures for cleanliness or damage, and for evidence of loose or missing fasteners and gaskets.

b. Resistors
   (1) Inspect resistors, insulators, and brackets for damage, distortion, deterioration, and for evidence of loose or missing fasteners or overheating.
   (2) Inspect wiring for damage or deterioration, and for evidence of loose connections.

c. Limit and Bypass switches.
   (1) Remove covers and inspect electrical and mechanical components and wiring for damage or deterioration, and for evidence of loose connections.



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NOTE: Some assets may require removal of panels attached with hardware for increased access.

NOTE: Electric components include Control Panels, Relays, Coils, Transfer and Disconnect Switches, Conductors and Electronic (Solid State) Drive Control Systems.

(2) Inspect enclosures for evidence of moisture and arcing. Inspect drive and actuating components for damage or deterioration, for proper lubrication, and for evidence of loose or missing fasteners.

d. Close all compartment access points.

10. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: Refer to asset operator's manual for appropriate starting procedures.

11. Inspect operational functionality:

a. Inspect machinery house (operator cab)

(1) Verify proper operation of the following:

(a) Louvers

(b) Doors

(c) Windows

(d) Windshield wipers

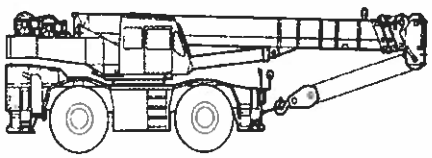
(e) Heater(s)

(f) Air conditioner

(g) Operator's chair

(h) Communication equipment

b. Get into the driver's seat.



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

c. Fasten the seat belt.

d. Verify keyed ignition switch operates in all settings.

e. Start engine or energize motor, (local and remote stations)

(1) Listen for abnormal noise.

(2) Verify proper operation.

f. Verify all gauge's function properly.

g. Verify the following gauges (as applicable) reflect acceptable limits:

(1) Lube oil pressure.

(2) Fuel pressure.

(3) Coolant temperature.

(4) Fuel quantity.

(5) Ammeter

(6) Tachometer

(7) Heat exchanger temperature.

(8) Drum rotation.

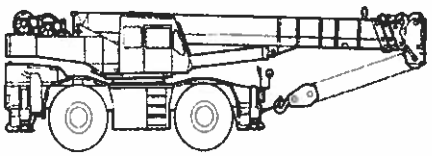
(9) Hour meter

h. Verify proper functioning of warning devices (e.g. horns, bells, lights) during operations.

i. Verify there are no unusual noises.

j. Verify there are no exhaust leaks.

k. Verify emergency engine/motor stop operation (if equipped).



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

l. Verify the following for the switch mechanism and/or handle on disconnects and safety switch(es):
   (1) Cannot be moved to energized/on position when locked in deenergized/off position.
   (2) Handle properly indicates whether switch is energized or deenergized.

m. Verify all installed lights operate properly, (e.g. brake light, headlights, reverse lights, spotlights, strobe lights, etc.

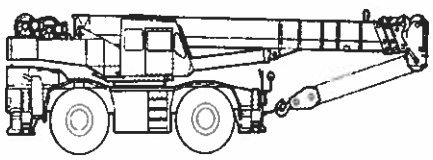
n. Verify travel/motion audible signal operates (if equipped).

o. Verify no evidence of steering play or loose suspension when asset is in motion.

p. Check applicable steering modes (2-wheel, 4-wheel, crab).

q. Check the following for any leaks with engine at full operating temperature.
   (1) Lube oil lines.
   (2) Fuel lines.
   (3) Fuel filter(s)
   (4) Cooling system
      (a) Water pump
      (b) Lines
   (5) Air starting lines

r. Inspect engine alternator/generator for the following:
   (1) Rubbing
   (2) Vibration
   (3) Sparking
   (4) Abnormal noise
   (5) Overheating
   (6) Alternator/generator is properly charging batteries.



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(7) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

s. Inspect auxiliary generator(s) (if applicable) for the following:

(1) Rubbing

(2) Vibration

(3) Sparking

(4) Abnormal noise

(5) Overheating

(6) Proper voltage output

(7) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

NOTE: Engine alarm safety device checks do not apply to auxiliary engines.

NOTE: Complete engine alarm safety device checks by testing with sensors installed where applicable.

t. Verify proper operation of the following engine alarm safety devices (as applicable):

(1) Engine overspeed shutdown

(2) Oil system shutdown.

(3) Water system shutdown

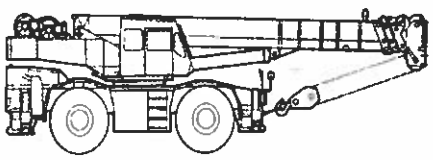
u. Inspect voltage regulator.

(1) Verify regular cycles.

(2) Verify batteries are not being overcharged.

v. Inspect turbocharger for the following:

(1) Vibration



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(2) Oil leaks.

(3) Abnormal noise

w. Verify proper operation of the governor (as applicable).

x. Inspect overall engine condition for the following:

(1) Excessive smoking

(2) Vibration

(3) Abnormal noise

y. Inspect exhaust system for the following:

(1) Leaks

(2) Sparks

(3) Abnormal noise(s)

z. Check the brake system.

(1) Engage the parking brake.

(a) Ensure that no one is in front of or behind the equipment.

(b) Attempt to drive the equipment forward.

(c) Ensure the equipment does not move.

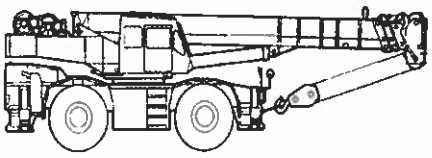
(2) Check the neutral start switch (if applicable).

(a) Verify that the parking brake is set.

(b) Ensure that no one is in front of or behind the equipment.

(c) Engage the directional control lever in either the forward or reverse position.

(d) Attempt to start the engine.



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(e) Check the service brakes to verify they stop smoothly and evenly without pulling or binding.

(3) Check mechanical brakes in both directions for the following:

(a) Proper release

(b) Engagement

(c) Stopping action

(4) Check the dead-man brake or travel control disconnect device for proper operation (if applicable).

aa. Verify proper operation of throttle linkage.

bb. Check controllers for the following:

(1) Proper sequencing of speed points

(2) Proper operation of controller indicating lights

(3) Proper operation of Deadman devices

cc. Verify the operation of the directional controls.

(1) Shift directional controls in to forward.

(a) Check for proper operation.

(2) Shift directional controls in to neutral.

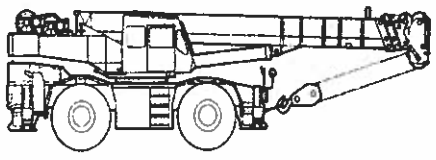
(a) Check for proper operation.

(3) Shift directional controls in to reverse.

(a) Check for proper operation.

(b) Ensure back-up alarm operates.

dd. Check acceleration (all forward and reverse gears)



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

ee. Check braking (at speed) if smooth and straight.

ff. Check the turning radius/tracking.

gg. Check clutch-main drive (if applicable) for the following:

(1) Proper engagement

(2) Slippage

(3) Proper adjustment

(4) Evidence of binding

(5) Abnormal noise

hh. Ensure battery disconnect switch is operable (if applicable).

ii. Verify hose reel functions smoothly.

jj. Inspect manual or hydraulic stabilizer outriggers (as applicable) for the following:

(1) Operate properly

(2) Leaks

kk. Check the following clutches for slippage or evidence of binding:

(1) Boom

(2) Hoist

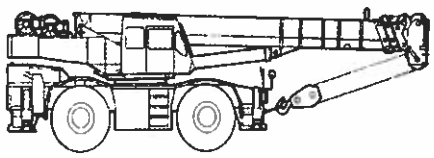
(3) Swing

(4) Travel

ll. Check boom electric motor(s) (if applicable) for the following:

(1) Vibration

(2) Overheating



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(3) Abnormal noise

(4) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

(5) Evidence of the following issues with internal components:

(a) Misaligned

(b) Worn

(c) Damaged

mm. Check hoist electric motor(s) (if applicable) for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

(5) Evidence of the following issues with internal components:

(a) Misaligned

(b) Worn

(c) Damaged

nn. Check rotate electric motor(s) (if applicable) for the following:

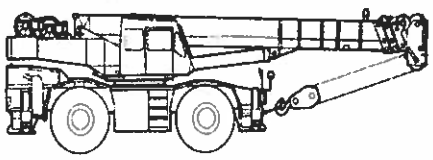
(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

(5) Evidence of the following issues with internal components:



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(a) Misaligned

(b) Worn

(c) Damaged

oo. Check travel electric motor(s) (if applicable) for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Proper operation of environmental devices (e.g. strip heaters, cooling fans)

(5) Evidence of the following issues with internal components:

(a) Misaligned

(b) Worn

(c) Damaged

pp. Verify proper operation of electrical cable reels.

qq. Check the following for proper operation:

(1) Travel trucks.

(2) Equalizers

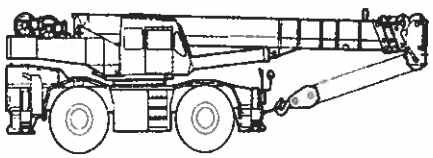
(3) Gudgeons

(4) Gudgeon pins

(5) Retainers

rr. Check operation of crane controls.

(1) Verify proper operation of the following:



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(2) Hoist functions.

(3) Rotate functions.

(4) Travel functions.

(5) Primary limit switches

(6) Secondary limit switches

(7) Bypass switches.

(8) Indicator lights

(9) Level indicators.

NOTE: Inspection of extend/retract sheaves internal to telescoping booms may be limited to inspection through boom inspection ports.

ss. Check sheaves for the following during operations:

(1) Free movement

(2) Abnormal noise

(3) Abnormal play

(4) Overheating

(5) Evidence of component wear

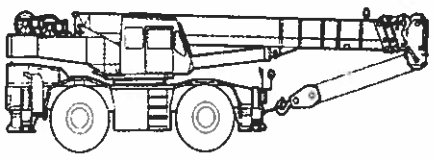
(6) Evidence of bearing damage

tt. Inspect the following for abnormal noise:

(1) Wire rope drum(s)

(2) Followers

(3) Machinery foundations



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

uu. During operation, check Center Collector Assembly (electric or hydraulic) for the following:

(1) Verify brush to collector ring alignment.

(2) Inspect for hydraulic leaks.

x. During operation, check Slewing Ring Bearings for the following:

(1) Abnormal noise

(2) Vibration

ww. During operation, check Rotate Path Assembly for the following:

(1) Verify free rotation of rollers.

(2) Evidence of misalignment

NOTE: Shafts and Couplings includes couplings integral to motor/speed reducer assemblies.

xx. During operation, check all shafts and couplings for the following:

(1) Vibration

(2) Evidence of misalignment

(3) Damaged components

(4) Abnormal noise

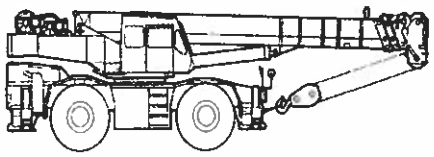
yy. During operation, check boom internal gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

zz. During operation, check hoist internal gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

aaa. During operation, check rotate internal gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

bbb. During operation, check travel internal gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

ccc. During operation, check boom external gearing for the following:

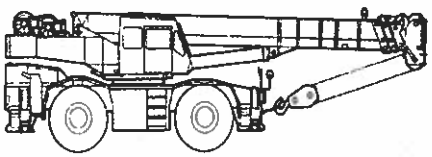
(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

ddd. During operation, check hoist external gearing for the following:



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

eee. During operation, check rotate external gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

fff. During operation, check travel external gearing for the following:

(1) Vibration

(2) Overheating

(3) Abnormal noise

(4) Evidence of possible damage

ggg. During operation, check all chains and sprockets for abnormal noise.

hhh. During operation, check the air compressor(s) for the following:

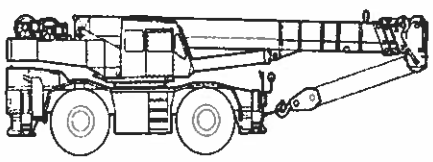
(1) Proper operation of unloader valve

(2) Proper operation of pressure switch

(3) Abnormal noise

(4) Vibration

iii. During operation, check the air control system for the following:



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(1) Leaks

(2) Proper operation of the following:

(a) Valves

(b) Regulators

(c) Gauges

jjj. During operation, check the hydraulic system for the following:

(1) Leaks

(2) Proper operation of the following hydraulic components

(a) Motor(s)

(b) Brakes

(c) Pumps

(d) Valves

(e) Cylinders

(f) Area definition devices

(g) Axle lockouts

(h) Regulators

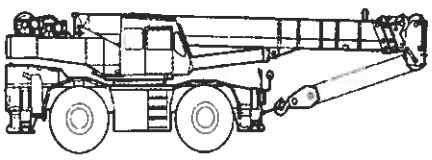
(i) Gauges

kkk. During operation, check wheels and axles for the following:

(1) Excessive movement between components

(2) Improper tracking

(3) Overheating



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NOTE: Refer to asset operator's manual for appropriate starting procedures.

(4) Evidence of component wear

(5) Evidence of bearing damage

(6) Abnormal noise

III. During operation, check steering and suspension for the following:

(1) Abnormal play

(2) Evidence of component wear

(3) Abnormal noise

C FINAL STEPS

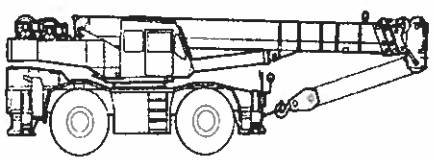
1. Secure and stow the asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us). https://play.apps.appsplatform.us/play/e/default-369ba0d5-02cb-4d2f-94fd-9212cc24b78c/a/705bbfb3-1b8b-461c-bb0a-56f5691346fa?tenantId=369ba0d5-02cb-4d2f-94fd-9212cc24b78c&hint=7fa46fa4-5b4d-4eb0-872c-0c54134ad33f&sourcetime=1721070441820&source=portal

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

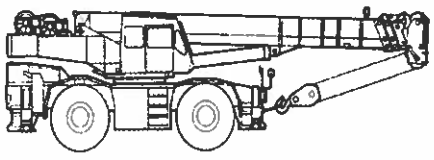
NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

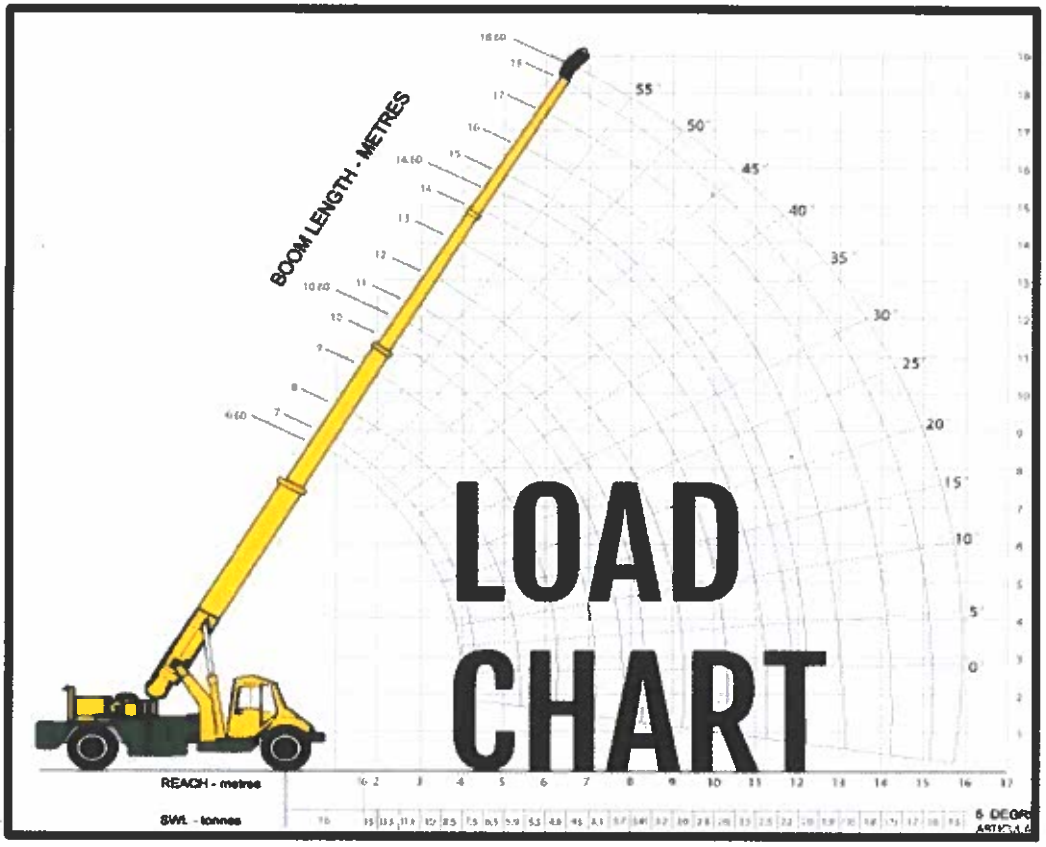
2. Document completion and any discrepancies found.



SAMPLE DATA PLATE

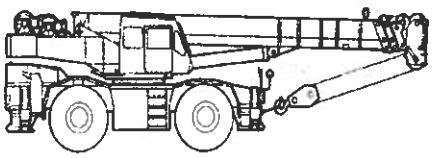
Figure 1





SAMPLE MOBILE CRANE LOAD CHART

Figure 2



U.S. COAST GUARD	MOBILE CRANE P20001.0 REV'D 09/23/2024

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	

SERIAL NUMBER TRACKED ITEM-ALL INFORMATION REQUIRED

ITEM NO	CMS CODE	ACTION	DESCRIPTION	CEINUM
[1] DUE	N/A	TEST	LOAD TEST	N/A

S/N:	FIELD NO:	Location:
P/N:	MFR:	DATE OF MFG:

DISCREPANCIES FOUND: NO YES

MAN HOURS: Rate Hours Rate Hours Rate Hours

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS:

TECHNICIAN'S SIGNATURE:

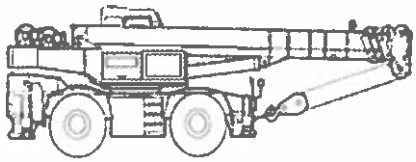
TECHNICIAN'S ID:

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM Service Manual

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



1 MOBILE CRANE TEST

REFERENCES:
NONE

TOOLS/TEST EQUIPMENT:
TEST WEIGHT MATERIAL

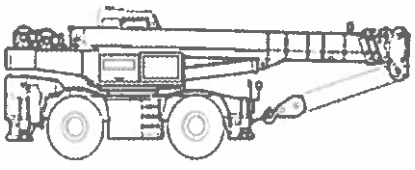
EXPENDABLES:
NONE

CONSUMABLES:
NONE

A PRELIMINARY STEPS

1. Ensure area is safe for maintenance.
2. Ensure asset annual inspection date is current.

   NOTE: Units may use organic resources for test weight materials as long as they are independently weighed prior to use.
3. Gather test weight material matching the maximum rated load specification as indicated in the operations manual.
4. Weigh the test weight material(s) to be lifted to ensure the accuracy to be within five percent of rated capacity.



B TEST

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NOTE: This inspection shall be completed by command designated Competent Personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT or through certified contract inspectors.

NOTE: The annual load test may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Step 2.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

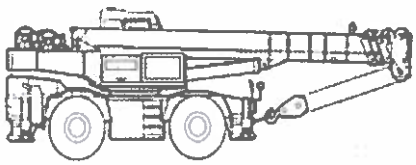
1. Perform load test.
   a. Refer to asset data plate (see Figure 1) and asset load chart(s) (see Figure 2) for maximum load capacities.
   b. Get into the driver's seat.
   c. Fasten the seat belt.
   d. Start engine or energize motor.
   e. Test the primary brakes without a load.
   f. Deploy stabilizers as per operator's manual, (as applicable).
   g. Load the test weight material with maximum load at least six (6) inches above the deck.

WARNING

EXCEEDING LIMITATIONS IDENTIFIED BY ASSET LOAD CHART(S) MAY CAUSE SERIOUS PERSONAL INJURY AND/OR COMPONENT FAILURE.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

   h. Raise the load to a height of 6-8 inches for a minimum of 15 minutes to ensure the vehicle doesn't lower or drop the load.
   i. Return the load to deck level.



WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

EXCEEDING LIMITATIONS IDENTIFIED BY ASSET LOAD CHART(S) MAY CAUSE SERIOUS PERSONAL INJURY AND/OR COMPONENT FAILURE.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

j. Adjust load weight for maximum load at maximum height/minimum reach.

k. Raise the load to maximum height/minimum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

l. Return the load to deck level.

m. Adjust load weight for maximum load at maximum height/maximum reach/load centered.

n. Raise the load to maximum height/maximum reach/load centered for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

o. Return the load to deck level.

p. Adjust load weight for maximum load at minimum height/minimum reach/ninety (90) degrees from center.

q. Rotate the load ninety (90) degrees to the left.

r. Raise the load to a height of 6-8 inches for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

s. Rotate the load one hundred eighty (180) degrees to the right.

t. Maintain load at a height of 6-8 inches for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

u. Rotate the load ninety (90) degrees to the left, (Forward center position).

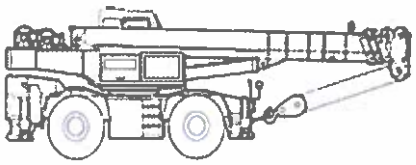
v. Return the load to deck level.

w. Adjust load weight for maximum load at maximum height/maximum reach/ninety (90) degrees from center.

x. Rotate the load ninety (90) degrees to the left.

y. Raise the load to maximum height/maximum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

z. Rotate the load one hundred eighty (180) degrees to the right.



WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

EXCEEDING LIMITATIONS IDENTIFIED BY ASSET LOAD CHART(S) MAY CAUSE SERIOUS PERSONAL INJURY AND/OR COMPONENT FAILURE.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

aa. Maintain load at maximum height/maximum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

bb. Rotate the load ninety (90) degrees to the left, (Forward center position).

cc. Retract boom to minimum reach.

dd. Return load to deck level.

ee. Secure engine or motor.

ff. Remove test weight materials.

C FINAL STEPS

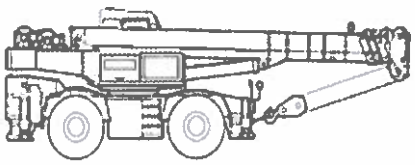
1. Secure and stow asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

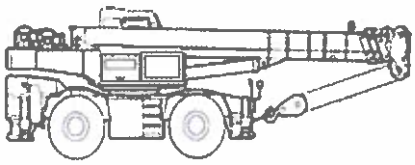
NOTE: Report inability to complete the annual load test or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

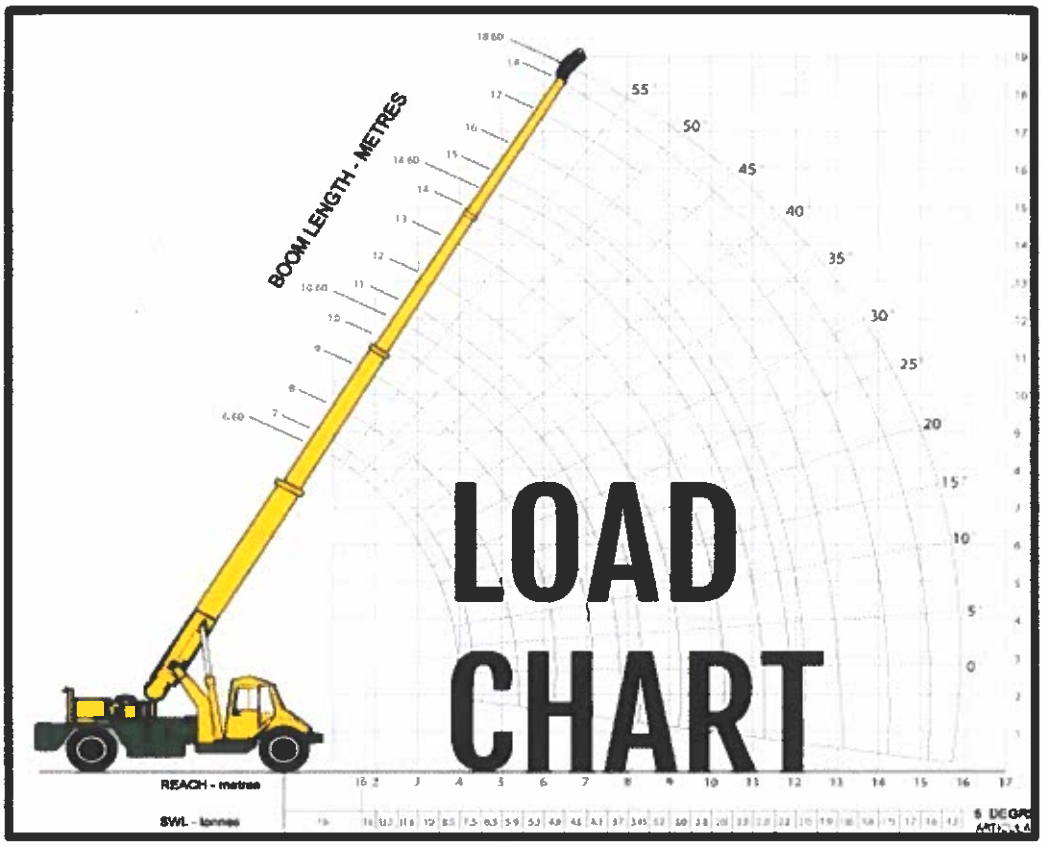
2. Document completion and any discrepancies found.



SAMPLE DATA PLATE

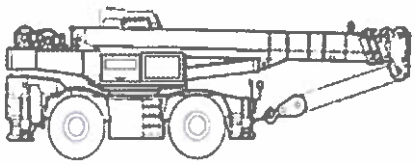
Figure 1





SAMPLE MOBILE CRANE LOAD CHART

Figure 2



U.S. COAST GUARD	VEHICLE LIFT (2 POST) S00040.0 REV'D: 02/12/2026

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**INSPECT**	**VEHICLE LIFT (2 POST) ANNUAL INSPECTION**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)

OSHA REGULATIONS (STANDARDS-29CFR) SUBPART S, ELECTRICAL, STANDARD NUMBER 1910.333

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

1 VEHICLE LIFT (2 POST) ANNUAL INSPECTION

REFERENCES:

NONE

TOOLS/TEST EQUIPMENT:

Calculator, P/N: N/A, CAGE: N/A
Compressor, Air, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)
Ladder, P/N: N/A, CAGE: N/A, NIIN: N/A (with height suitable for inspector and equipment)
Level, P/N: N/A, CAGE: N/A, NIIN: N/A
Stopwatch, P/N: N/A, CAGE: N/A, NIIN: N/A
Tape Measure, P/N: N/A, CAGE: N/A, NIIN: N/A (suitable with height of equipment)
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)

EXPENDABLES:

NONE

CONSUMABLES:

Corrosion Preventative Compound NSN: 8030-01-631-4012 (or equivalent)
Fluid, Hydraulic, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Rags, Lint free, P/N: N/A, CAGE: N/A, NIIN: N/A

A PRELIMINARY STEPS

1. Verify OEM service/maintenance manual is accessible.
2. Ensure area is safe for maintenance.

NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.

NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.

3. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.
   a. Wipe equipment down with rags and light detergent as required.
   b. Ensure exterior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants
   c. Ensure interior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants

B INSPECT

NOTE: This inspection shall be completed by command designated Competent personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT.

NOTE: The annual inspection may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Steps C 1-C 4.

1. Inspect the manufacturer's data/identification plate, (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

2. Complete Equipment Lockout/Tags-Plus Process IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
3. Inspect surrounding area of lift as follows:
   a. Adequate area for emergency egress around the lift.
   b. Adequate area for maintenance requirements to be performed around the lift.
   c. Floor area for debris and oil saturation.
4. Verify the following markings are legible:

   NOTE: See ALCOAST 295/25 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, Vehicle Weight and Safety Inspection Date markings.

   a. Working Load Limit marking
   b. Safety Inspection Date
   c. SEPL Asset identification decal with number
   d. Instruction plates
   e. Unit property tag
   f. Any affixed warning decals and labels
5. Inspect column assemblies for the following, (Refer to Figure 2):
   a. Paint for peeling, scaling or bubbling.
   b. Missing, damaged or corroded hardware.
   c. Floor mounting hardware for damage, and corrosion.
   d. Floor surrounding the column mounting area in an 18-inch circumference for cracks or damage.
   e. Welds for cracks, corrosion or damage.
   f. Friction points for excessive wear, gouges or corrosion.
      (1) Lubricate friction points as required by OEM.
   g. Locking ladder for damage, cracking, corrosion and excessive wear (as applicable).
   h. Lock pins/mechanisms for damage, cracking, corrosion and excessive wear.
   i. Using a level ensure the columns are within level limits of OEM manual.

6. Torque column floor mount bolts to OEM specifications.
7. Inspect overhead crossbeams (as applicable)
   a. Paint for pealing, scaling or bubbling.
   b. Missing damaged or corroded hardware.
   c. Welds for cracks corrosion or damage.
8. Inspect cross member/floorplate as follows:
   a. Paint for peeling, scaling or bubbling.
   b. Missing, damaged or corroded hardware.
9. Inspect cables as follows (as applicable):
   a. Damage, breaks, stretching, frays or corrosion.
      (1) Using a lint free cloth run it along the cables feeling for snags that will indicate breaks in the cable.
   b. Flat spots or wear marks.
   c. Bird nested sections.
   d. Swaged ends for looseness, movement or damage.
   e. Proper alignment per OEM manual.
10. Inspect chains as follows (as applicable):
   a. Missing, damaged, deformed or corroded chain links.
   b. Excessively worn, deformed or corroded chain blocks.
   c. Excessively worn, deformed or corroded chain connectors.
   d. Proper alignment per OEM manual.
   e. Lubricate as required by OEM.
11. Inspect sheaves/rollers as follows (as applicable):
   a. Paint for peeling scaling or bubbling.
   b. Missing, damaged or corroded hardware.
   c. Misalignment of sheaves/rollers.
      (1) Misalignment is caused by internal hardware failure.
12. Inspect electrical parts as follows:
   a. Wires for breaks or chaffing.
   b. Connectors for looseness, damage or corrosion.
   c. Missing, broken, corroded or damaged connection covers.
   d. Motors for evidence of overheating/overloading.
13. Inspect hydraulic components as follows (as applicable):
   a. Lines for leaks, gouges, nicks, cracks or corrosion.

b. Hoses for leaks, cracks, cuts, erosion or damage.
c. Pistons for leaking, deformation, gouges or signs of misalignment.
d. Verify relief valve tamper seals are not damaged or removed.
e. Reservoir for proper servicing IAW the OEM manual.
f. Fluid for contamination.

14. Inspect pneumatic system as follows:
    a. Lines for leaks, gouges, nicks, cracks or corrosion.
    b. Hoses for leaks, cracks, cuts, erosion or damage.
    c. Airbags/bellows for damage or wear.
    d. Ensure the air supply system has a pressure regulator and it meets the OEM specifications
15. Inspect lubrication points as follows:
    a. Damaged, missing or worn lubrication fittings.
    b. Cleanliness of lubrication areas and lubricated as required by OEM manual.
16. Inspect lifting/height adaptors as follows (as required):
    a. Welds for damage, cracks, gouges or corrosion.
    b. Threads for damage, cracks, gouges, or corrosion.
    c. Over extension stops for proper operation.
    d. Pads for wear and excessive contamination from oil and dirt.

17. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

ENSURE MECHANICAL LOCKS ARE ENGAGED AT COMPLETION OF LIFT TO ENSURE ONCE TAGGED OUT THE EQUIPMENT WILL NOT LOWER INADVERTENTLY DURING INSPECTION.

NOTE: Refer to asset operator's manual for appropriate starting procedures.

18. Adjust the vehicle lift to a comfortable height to inspect the swing/lift arms and under them. Ensure the mechanical locks are engaged before walking under them.

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

19. Inspect swing/lifting arms as follows:
    a. Paint for peeling, scaling or bubbling.
    b. Missing, damaged, corroded or hardware.
    c. Welds for cracks, corrosion or damage.
    d. Friction points for excessive wear, gouges or corrosion.
        (1) Lubricate friction area as required by OEM.
    e. Lifting pads for degradation (as applicable).
    f. For smooth extension and retraction.
        (1) Lubricate as required by OEM manual.
    g. For smooth side to side movement and full range of motion.
        (1) Ensure that the locking mechanism properly engages and disengages as required.

(2) Lubricate as required by OEM manual.

20. Repeat the following step under the swing/lift arms and column areas that were not inspectable while lowered (as required):
    a. 1 B 8. a. through1 B 8. e.
    b. 1 B 9. a. through 1 B 9. e.
    c. 1 B 10. a. through 1 B 10. c. (1).
    d. 1 B 11. a. through 1 B 11. c.
    e. 1 B 12. a. through 1 B 12. c.
    f. 1 B 13. a. through 1 B 13. c.
    g. 1 B 14. a. through 1 B 14. b.
21. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
22. Perform operational checkout as follows:
    a. Engage power to the unit.
    b. Operate controls to the lift and ensure they return to the neutral position once they are released.
    c. Lower lift to the full down position.
        (1) Ensure it is level IAW OEM limits.
    d. Ensure motor disengages when in full down position.
    e. Raise lift to full up position.
        (1) Ensure the lift is level during the full lift process.
        (2) Listen for abnormal noises and grinding.
        (3) Look and feel for abnormal or jerking movement.
        (4) Ensure the motor disengages when the lift is at the full up position.
        (5) During lift and lowering ensure locking mechanisms engage, disengage and reset as required by OEM manual.
    f. Lower the lift to the full down position.
        (1) Ensure the lift is level during the full lowering process.
        (2) Listen for abnormal noises or grinding.
        (3) Look and feel for any abnormal or jerking movement.

        NOTE: The following step requires the minimum of two personnel to perform the task.

    g. Load a vehicle that is representative of normal working load IAW OEM manual.
        (1) Position vehicle as per OEM manual.
        (2) Position swing/lift arms in position as per OEM and vehicle manual

(3) Install lifting/height adaptors (as required).

(4) Raise the lift to approximately halfway point and check for any slow downward drift.

(5) Raise the vehicle to full height.

(6) Measure distance from runway to floor with a tape measure.

(7) Document the distance measured in the table provided below.

(8) Lower the vehicle until tires touch the ground, while timing with a stopwatch.

(9) Document the time recorded in the table provided below.

(10) Using a calculator calculate the feet per minute with the following formula. Inches traveled divided by seconds multiplied by five.

(a) The travel time should not exceed 20 feet per minute.

(b) Document in the table provided below.

Inches Traveled	Divided by seconds	Equals	Multiplied by 5	Feet per minute
			x 5	

TABLE 1

h. Stow lifting adaptors (as required).

i. Stow swing/lifting arms.

j. Remove vehicle from the lift.

C FINAL STEPS

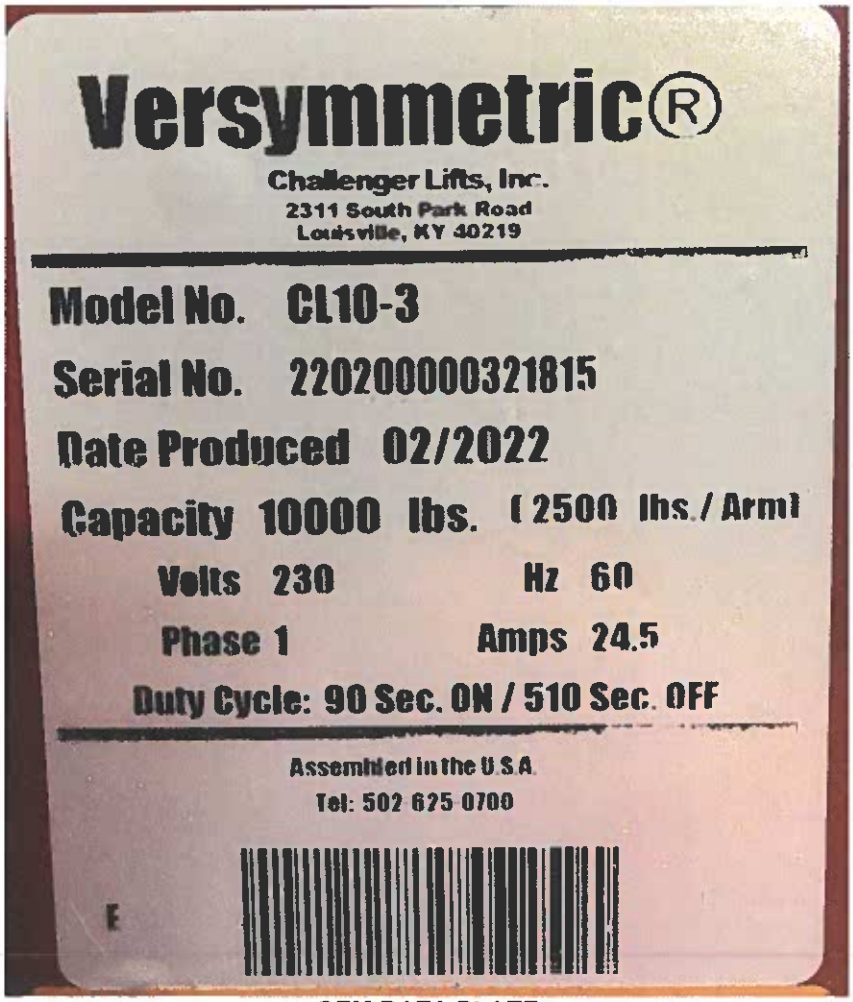
1. Secure asset.
2. Stow asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

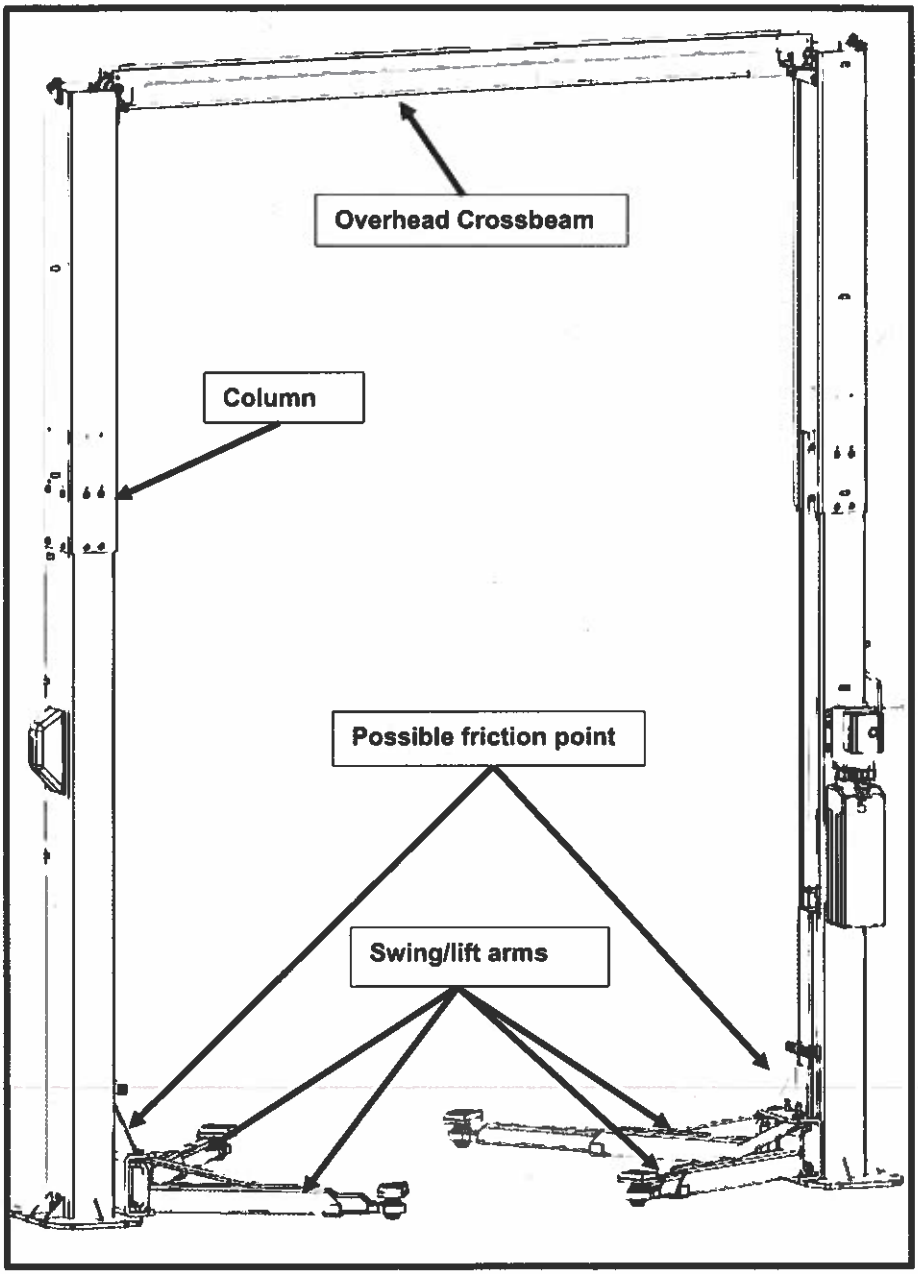
NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

3. Document completion.
4. Report any discrepancies found and document (as applicable).



OEM DATA PLATE

Figure 1



TWO POST VEHICLE LIFT
Figure 2

U.S. COAST GUARD	VEHICLE LIFT (2 POST) P30012.0 REV'D: 02/12/2026

SEPL ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**TEST**	**LOAD TEST**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO____ YES____

MAN HOURS: RATE___.___ HRS___.___ RATE___.___ HRS___.___ RATE___.___ HRS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)
OSHA REGULATIONS (STANDARDS-29CFR) SUBPART S, ELECTRICAL, STANDARD NUMBER 1910.333

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

1 VEHICLE LIFT (2 POST) LOAD TEST

REFERENCES:
MPC S00041.0

TOOLS/TEST EQUIPMENT:
Calculator, P/N: N/A, CAGE: N/A
Ladder, P/N: N/A, CAGE: N/A, NIIN: N/A (with height suitable for inspector and equipment)
Stopwatch, P/N: N/A, CAGE: N/A, NIIN: N/A
Tape Measure, P/N: N/A, CAGE: N/A, NIIN: N/A (suitable with height of equipment)
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)

EXPENDABLES:
NONE

CONSUMABLES:
NONE

A PRELIMINARY STEPS

1. Ensure the area is safe for maintenance.
2. Comply with MPC S00041.0.

B LOAD TEST

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

1. Utilize a Torque Wrench to torque column floor mount bolts to OEM specifications.

WARNING

ONLY QUALIFIED OPERATORS ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: The following step requires a minimum of two personnel to perform the task.

2. Load a vehicle that is representative of normal working load IAW OEM manual.
   a. Position vehicle as per OEM manual.
   b. Position swing/lift arms in position as per OEM and vehicle manual
   c. Install lifting/height adaptors (as required).
   d. Raise the lift to approximately halfway point.
      (1) Check for any slow downward drift.
   e. Raise the vehicle to full height.
   f. Measure distance from lowest part of the vehicle to floor with a tape measure.
   g. Document the distance measured in the table provided below under "Inches Traveled", (Refer to table 1).
   h. Using a Stopwatch, lower the vehicle until tires touch the ground.
   i. Document the time recorded in the table provided below under "Divided by seconds".
   j. Using a calculator, calculate feet per minute with the following formula. Inches traveled divided by seconds multiplied by five.
      (1) The travel time should not exceed 20 feet per minute.
      (2) Document on the table provided below.

Inches Traveled	Divided by seconds	Equals	Multiplied by 5	Feet per minute
			x 5	

TABLE 1

3. Stow lifting adaptors (as required).
4. Stow swing/lifting arms.
5. Remove vehicle from the lift.

C FINAL STEPS

1. Secure power.

   NOTE: Report completion of load test to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

   NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

   NOTE: Report inability to complete the load test or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

2. Report any discrepancies found (as applicable).
3. Document any discrepancies found (as applicable).
4. Document completion.

U.S. COAST GUARD	VEHICLE LIFT (4 POST) S00043.0 REV'D: 02/12/2026

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**INSPECT**	**VEHICLE LIFT (4 POST) ANNUAL INSPECTION**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

_____

_____

_____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

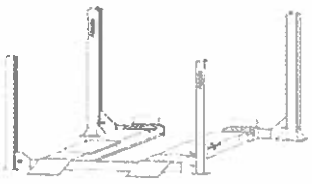
*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)

OSHA REGULATIONS (STANDARDS-29CFR) SUBPART S, ELECTRICAL, STANDARD NUMBER 1910.333

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



1 VEHICLE LIFT (4 POST) ANNUAL INSPECTION

REFERENCES:

NONE

TOOLS/TEST EQUIPMENT:

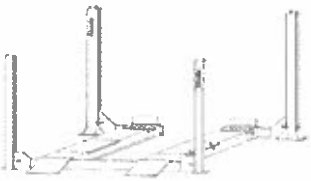
Calculator, P/N: N/A, CAGE: N/A
Compressor, Air, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)
Ladder, P/N: N/A, CAGE: N/A, NIIN: N/A (with height suitable for inspector and equipment)
Tape Measure, P/N: N/A, CAGE: N/A, NIIN: N/A (suitable with height of equipment)
Stopwatch, P/N: N/A, CAGE: N/A, NIIN: N/A
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)

EXPENDABLES:

NONE

CONSUMABLES:

Corrosion Preventative Compound NSN: 8030-01-631-4012 (or equivalent)
Fluid, Hydraulic, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Rags, Lint free, P/N: N/A, CAGE: N/A, NIIN: N/A



A PRELIMINARY STEPS

1. Verify OEM service/maintenance manual is accessible.
2. Ensure area is safe for maintenance.

   NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.

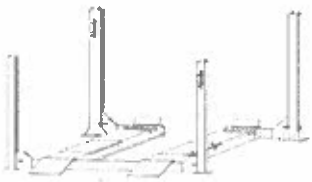
   NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.
3. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.
   a. Wipe equipment down with rags and light detergent as required.
   b. Ensure exterior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants
   c. Ensure interior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants

B INSPECT

NOTE: This inspection shall be completed by command designated Competent personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT.

NOTE: The annual inspection may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Steps C 1- C 4.

1. Inspect the manufacturer's data/identification plate, (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible.



WARNING

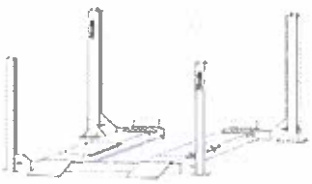
ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

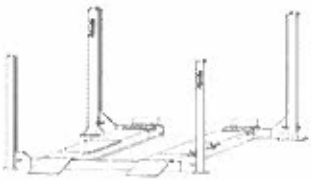
2. Complete Equipment Lockout/Tags-Plus Process IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
3. Inspect surrounding area of lift as follows:
   a. Adequate area for emergency egress around the lift.
   b. Adequate area for maintenance requirements to be performed around the lift.
   c. Floor area for debris and oil saturation.
4. Verify the following markings are legible:

   NOTE: See ALCOAST 295/25 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, Vehicle Weight and Safety Inspection Date markings.

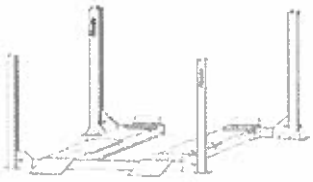
   a. Working Load Limit marking
   b. Safety Inspection Date
   c. SEPL Asset identification decal with number
   d. Instruction plates
   e. Unit property tag
   f. Any affixed warning decals and labels
5. Inspect column assembly for the following, (Refer to Figure 2):
   a. Paint for peeling, scaling or bubbling.
   b. Missing, damaged or corroded hardware.
   c. Floor mounting hardware for damage, and corrosion.
   d. Floor surrounding the column mounting area in an 18-inch circumference for cracks or damage.
   e. Welds for cracks, corrosion or damage.
   f. Friction points for excessive wear, gouges or corrosion.
      (1) Lubricate friction points as required by OEM.
   g. Locking ladder for damage, cracking, corrosion and excessive wear.
   h. Lock pins/mechanisms for damage, cracking, corrosion and excessive wear.



6. Torque column floor mount bolts to OEM specifications.
7. Inspect overhead crossbeams (as applicable)
   a. Paint for pealing, scaling or bubbling.
   b. Missing damaged or corroded hardware.
   c. Welds for cracks corrosion or damage.
8. Inspect cross members as follows:
   a. Paint for peeling, scaling or bubbling.
   b. Missing, damaged or corroded hardware.
   c. Welds for cracks, corrosion or damage.
   d. Friction points for excessive wear, gouges, or corrosion.
      (1) Lubricate friction area as required by OEM.
9. Inspect Runways as follows:
   a. Paint for peeling, scaling or bubbling.
   b. Anti-slip protection for degradation (as applicable).
   c. Missing, damaged, corroded or hardware.
   d. Welds for cracks, corrosion or damage.
   e. Friction points for excessive wear, gouges or corrosion.
      (1) Lubricate friction area as required by OEM.
   f. Entrance ramps for proper operation (as required)
   g. Spotting dish for damage, cracks, corrosion or excessive cupping (as applicable).
10. Inspect cables as follows (as applicable):
   a. Damage, breaks, stretching, frays or corrosion.
      (1) Using a lint free cloth run it along the cables feeling for snags that will indicate breaks in the cable.
   b. Flat spots or wear marks.
   c. Bird nested sections.
   d. Swaged ends for looseness, movement or damage.
   e. Proper alignment per OEM manual.
11. Inspect chains as follows (as applicable):
   a. Missing, damaged, deformed or corroded chain links.
   b. Excessively worn, deformed or corroded chain blocks.
   c. Excessively worn, deformed or corroded chain connectors.
   d. Proper alignment per OEM manual.
   e. Lubricate as required by OEM.



12. Inspect sheaves/rollers as follows (as applicable):
    a. Paint for peeling scaling or bubbling.
    b. Missing, damaged or corroded hardware.
    c. Misalignment of sheaves/rollers.
        (1) Misalignment is caused by internal hardware failure.
13. Inspect electrical parts as follows:
    a. Wires for breaks or chaffing.
    b. Connectors for looseness, damage or corrosion.
    c. Missing, broken, corroded or damaged connection covers.
    d. Motors for evidence of overheating/overloading.
14. Inspect hydraulic components as follows (as applicable):
    a. Lines for leaks, gouges, nicks, cracks or corrosion.
    b. Hoses for leaks, cracks, cuts, erosion or damage.
    c. Pistons for leaking, deformation, gouges or signs of misalignment.
    d. Verify relief valve tamper seals are not damaged or removed.
    e. Reservoir for proper servicing IAW the OEM manual.
    f. Fluid for contamination.
15. Inspect pneumatic system as follows:
    a. Lines for leaks, gouges, nicks, cracks or corrosion.
    b. Hoses for leaks, cracks, cuts, erosion or damage.
    c. Airbags/bellows for damage or wear.
    d. Ensure the air supply system has a pressure regulator and it meets the OEM specifications
16. Inspect lubrication points as follows:
    a. Damaged, missing or worn lubrication fittings.
    b. Cleanliness of lubrication areas and lubricated as required by OEM manual.
17. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333



WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

ENSURE MECHANICAL LOCKS ARE ENGAGED AT COMPLETION OF LIFT TO ENSURE ONCE TAGGED OUT THE EQUIPMENT WILL NOT LOWER INADVERTENTLY DURING INSPECTION.

NOTE: Refer to asset operator's manual for appropriate starting procedures.

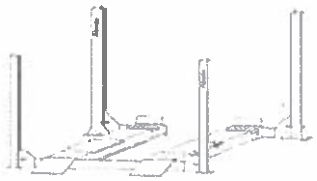
18. Adjust the auto lift to a comfortable height to inspect under the runway and ensure the mechanical locks are engaged before walking under runways.

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

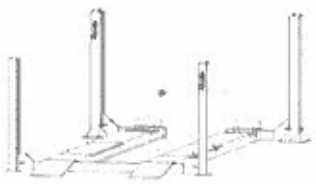
19. Repeat the following step under the runway and crossmember (as required):
    a. 1 B 6. a. through 1 B 6. c.
    b. 1 B 7 a. through 1 B 7 c.
    c. 1 B 8 a. through 1 B 8 f.
    d. 1 B 9 a. through 1 B 9 e.
    e. 1 B 10 a. through 1 B 10 e.
    f. 1 B 11 a. through 1 B 11 c (1).
    g. 1 B 12 a. through 1 B 12 c.
    h. 1 B 13 a. through 1 B 13 c.
    i. 1 B 14 a. through 1 B 14 c.
    j. 1 B 15 a. through 1 B 15 b.



20. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
21. Perform operational checkout as follows:
    a. Engage power to the unit.
    b. Operate controls to the lift and ensure they return to the neutral position once they are released.
    c. Lower lift to the full down position.
        (1) Ensure it is level IAW OEM limits.
    d. Ensure motor disengages when in full down position.
    e. Raise lift to full up position.
        (1) Ensure the lift is level during the full lift process.
        (2) Listen for abnormal noises and grinding.
        (3) Look and feel for abnormal or jerking movement.
        (4) Ensure the motor disengages when the lift is at the full up position.
        (5) During lift and lowering ensure locking mechanisms engage, disengage and reset as required by OEM manual.
    f. Lower the lift to the full down position.
        (1) Ensure the lift is level during the full lowering process.
        (2) Listen for abnormal noises or grinding.
        (3) Look and feel for any abnormal or jerking movement.

        NOTE: The following step requires the minimum of two personnel to perform the task.

    g. Load a vehicle that is representative of normal working load IAW OEM manual.
        (1) Set parking brake.
        (2) Install chocks at front and rear wheels.
        (3) Raise the lift to approximately halfway point and check for any slow downward drift.
        (4) Raise the vehicle to full height.
        (5) Measure distance from runway to floor with a tape measure.
        (6) Document the distance measured in the table provided below.
        (7) Lower the vehicle while timing to full down position with a stopwatch.
        (8) Document the time recorded in the table provided below.



(9) Using a calculator, calculate the feet per minute with the following formula. Inches traveled divided by seconds multiplied by five.

(a) The travel time should not exceed 20 feet per minute.

(b) Document in the table provided below.

Inches Traveled	Divided by seconds	Equals	Multiplied by 5	Feet per minute
			x 5	

TABLE 1

h. Remove chocks from vehicle tires.

i. Release parking brake.

j. Remove vehicle from the lift.

C FINAL STEPS

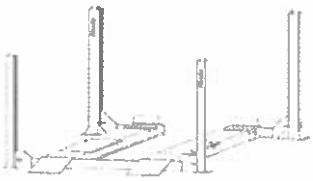
1. Secure asset.
2. Stow asset.

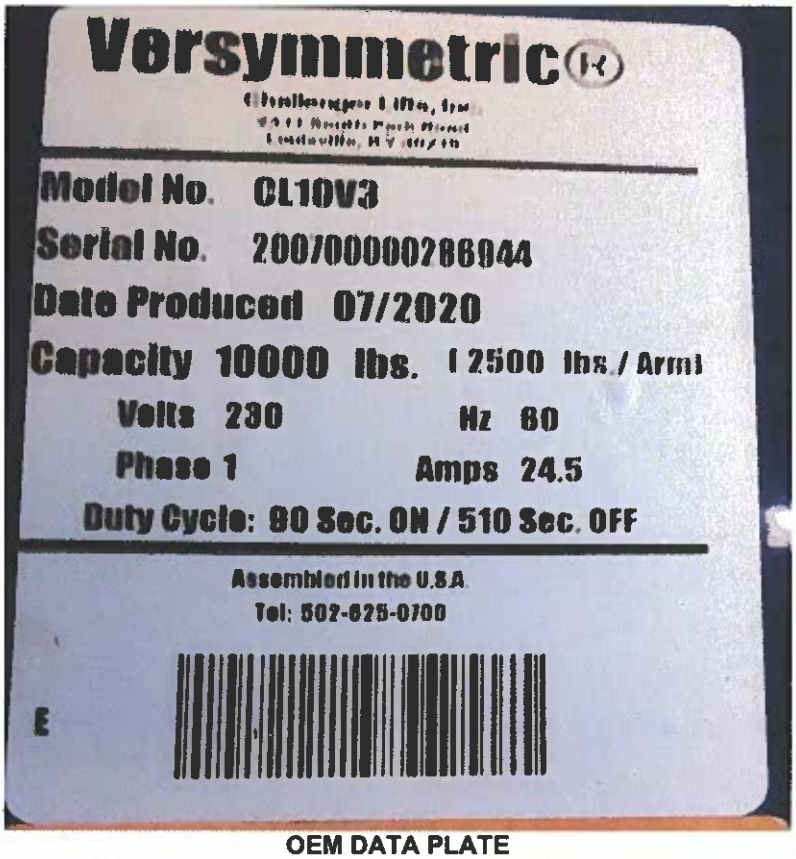
NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

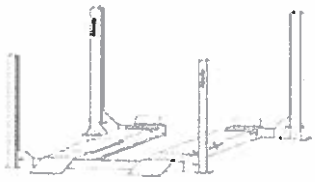
3. Document completion.
4. Report any discrepancies found and document (as applicable).

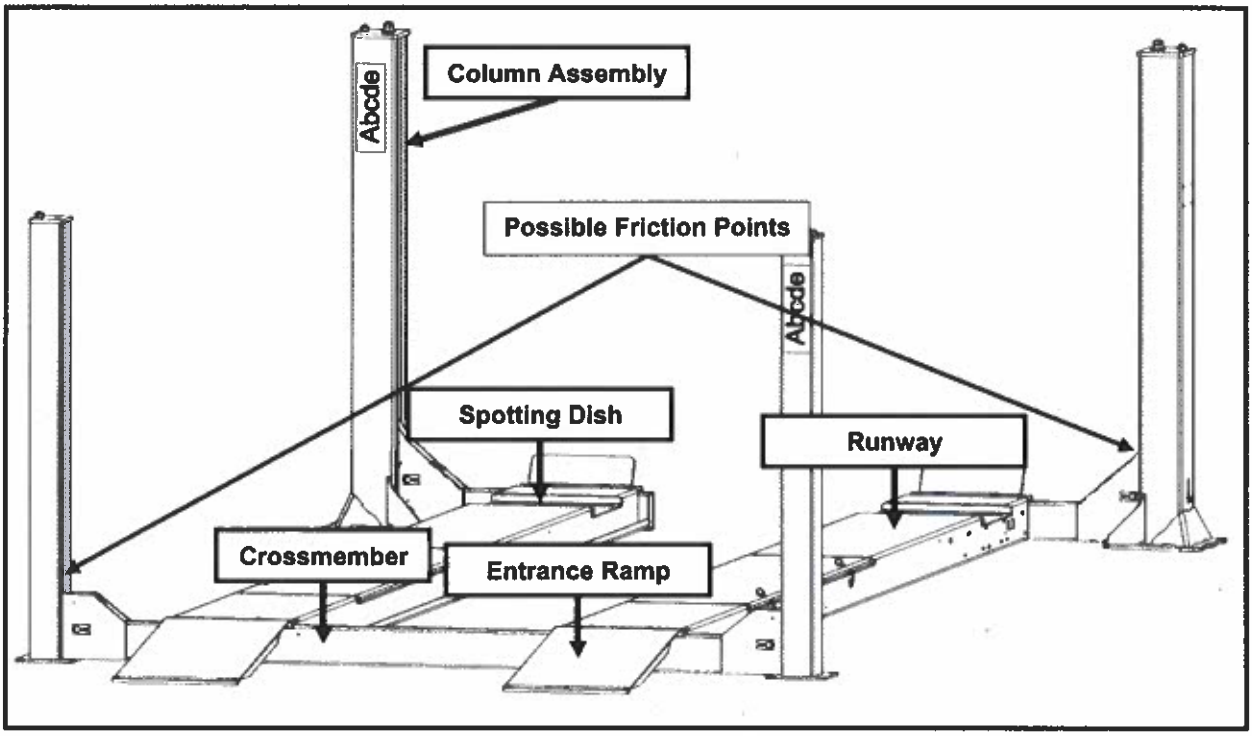




OEM DATA PLATE

Figure 1





FOUR POST VEHICLE LIFT

Figure 2

U.S. COAST GUARD	VEHICLE LIFT (4 POST) P30007.0 REV'D: 02/12/2026

SEPL ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**LOAD TEST**	**VEHICLE LIFT (4 POST) LOAD TEST**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO____ YES____

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

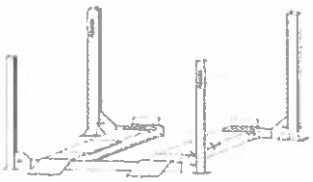
*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)

OSHA REGULATIONS (STANDARDS-29CFR) SUBPART S, ELECTRICAL, STANDARD NUMBER 1910.333

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



1 VEHICLE LIFT (4 POST) LOAD TEST

REFERENCES:
MPC S00044.0

TOOLS/TEST EQUIPMENT:
Calculator, P/N: N/A, CAGE: N/A
Ladder, P/N: N/A, CAGE: N/A, NIIN: N/A (with height suitable for inspector and equipment)
Tape Measure, P/N: N/A, CAGE: N/A, NIIN: N/A (suitable with height of equipment)
Stopwatch, P/N: N/A, CAGE: N/A, NIIN: N/A
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)

EXPENDABLES:
NONE

CONSUMABLES:
NONE

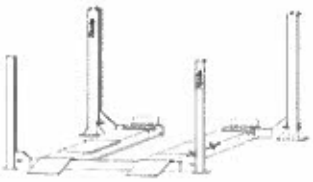
A PRELIMINARY STEPS

1. Ensure the area is safe for maintenance.
2. Comply with MPC S00044.0

B TEST

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

1. Torque column floor mount bolts to OEM specifications.
2. Verify maximum load capacities on asset data plate, (Refer to Figure 1).



WARNING

ONLY QUALIFIED OPERATORS ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: The following step requires a minimum of two personnel to perform the task.

3. Load a vehicle that is representative of normal working load IAW OEM manual.
   a. Set parking brake.
   b. Install chocks at front and rear wheels.
   c. Raise the lift to approximately halfway point and check for any slow downward drift.
   d. Raise the vehicle to full height.

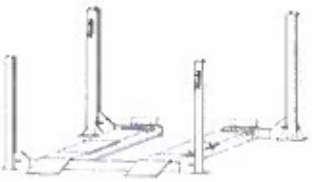
      NOTE: A ladder may be required for the following step.

   e. Measure distance from runway to floor with a tape measure.
   f. Document the distance measured in the table provided below (Refer to table 1).
   g. Lower the vehicle while timing to full down position with a stopwatch.
   h. Document the time recorded in the table provided below (Refer to table 1).
   i. Using a calculator, calculate feet per minute with the following formula. Inches traveled divided by seconds multiplied by five.
      (1) The travel time should not exceed 20 feet per minute.
      (2) Refer to table 1. Document in the table provided below.

Inches Traveled	Divided by seconds	Equals	Multiplied by 5	Feet per minute
			x 5	

TABLE 1

4. Remove chocks from vehicle tires.
5. Release parking brake.
6. Remove vehicle from the lift.



C FINAL STEPS

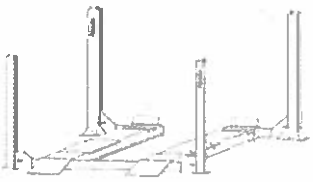
1. Secure power.

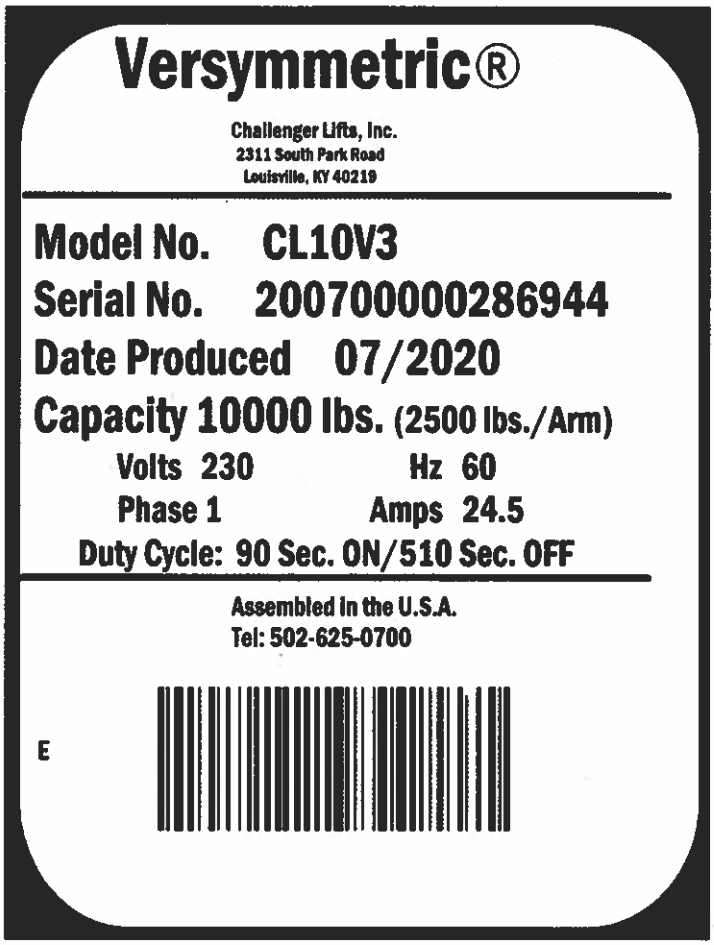
   NOTE: Report completion of load test to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

   NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

   NOTE: Report inability to complete the load test or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

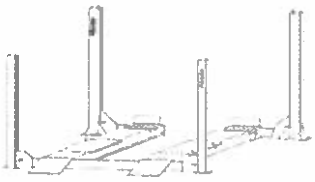
2. Report any discrepancies found (as applicable).
3. Document any discrepancies found (as applicable).
4. Document completion.





OEM DATA PLATE

Figure 1



U.S. COAST GUARD	CHAIN HOIST (MANUAL) S00054.0 REV'D: 06/16/2025

SEPL ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**INSPECT**	**CHAIN HOIST (MANUAL)**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE___.___ RATE___.___ RATE___.___ RATE___.___ FN/SN___.___ CIV___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)

ASME 30.10 series

ASME 30.16 series

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

1 MANUAL CHAIN HOIST ANNUAL INSPECTION

REFERENCES:
MPC P30009.0

TOOLS/TEST EQUIPMENT:
NONE

EXPENDABLES:
NONE

CONSUMABLES:
NONE

A PRELIMINARY STEPS

NOTE: Refer to the applicable OEM manual for specific model maintenance requirements. If OEM manual is not obtainable contact SEPL for guidance on inspection criteria ALC-ALC-SEPL@uscg.mil.

1. Verify OEM service/maintenance manual is accessible.
2. Ensure the area is safe for maintenance.

NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.

NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.

3. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.

CAUTION

DO NOT CLEAN WITH CAUSTIC/ACIDIC SOLVENTS. USING THESE SOLVENTS WILL CAUSE FAILURE OF THE MATERIALS AND PARTS OF THE HOIST.

a. Wipe equipment down with rags and light detergent as required.
b. Ensure exterior surfaces are clean and free of the following:
   (1) Dirt
   (2) Dust
   (3) Grease
   (4) Contaminants

B INSPECT

NOTE: This inspection shall be completed by command designated Competent personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT.

NOTE: The annual inspection may be completed either organically or by a certified contractor. Completion and resources used for each shall be annotated in Steps C 3 and C 4.

1. Inspect the manufacturer's data/identification plate, (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible

   NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed

2. Verify the following markings are legible:

   NOTE: See ALCOAST 223/23 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, Vehicle Weight and Safety Inspection Date markings.

   NOTE: Units may be too small to properly tag IAW ALCOAST 223/23. Waivers may be obtained from SEPL for alternative labeling.

   a. Working Load Limit marking
   b. Safety Inspection Date
   c. SEPL Asset identification decal with number
   d. Instruction plates
   e. Unit property tag
   f. Any affixed warning decals and labels
3. Inspect hoist covers for the following:
   a. Paint for peeling, scaling or bubbling.
   b. Missing, damaged or corroded hardware.

   NOTE: The measurements and tolerances will be IAW OEM manual or ASME 30.16 series.
4. Inspect chain as follows:
   a. Check links for nicks, gouges, cracks and corrosion.
   b. Ensure chain moves freely with no binding.
   c. Links for deformation, twists and bends.
   d. Length of chain for dimensions.

e. Chain for twisting due to capsizing, (Refer to Figure 2).

5. Lubricate chain IAW OEM manual.

NOTE: Measurements and tolerances will be IAW OEM manual or ASME 30.10 series.

6. Inspect overhead hook assembly as follows:
   a. Check safety latch for proper operation.
   b. Ensure hook swivels easily (as applicable).
   c. Check for nicks, gouges, wear, twisting, cracks or corrosion.
   d. Check welds for cracks corrosion or damage.
   e. Check for discoloration caused by overheating or excessive wear.
   f. Check for missing, damaged or corroded hardware.
   g. Measure hook dimensions IAW OEM manual.
7. Lubricate overhead hook IAW OEM manual.
8. Inspect lower hook assembly as follows:
   a. Check safety latch for proper operation.
   b. Ensure hook swivels easily (as applicable).
   c. Check for nicks, gouges, wear, twisting, cracks or corrosion.
   d. Check the welds for cracks, corrosion or damage.
   e. Check for discoloration caused by overheating or excessive wear.
   f. Check for missing, damaged or corroded hardware.

NOTE: Measurements and tolerances will be IAW OEM manual or ASME 30.10 series.

   g. Measure hook dimensions IAW OEM manual.
9. Lubricate lower hook IAW OEM manual.

WARNING

REMOVING THE COVER OF THE HOIST WITHOUT FIRST REFERRING TO THE OEM MANUAL COULD RESULT IN INJURY OR EQUIPMENT DAMAGE.

NOTE: All models do not require disassembly for periodic inspection. Refer to applicable OEM manual for specific model for maintenance requirements. If OEM manual is not obtainable, contact SEPL for guidance on inspection criteria ALC-ALC-SEPL@uscg.mil.

10. Inspect internal parts of the hoist (as applicable).
    a. Remove hoist cover to expose internal parts of the hoist IAW OEM manual.
    b. Inspect internal parts as per the OEM manual for the following:
       (1) Cracks

(2) Gouges

(3) Excessive wear

(4) Misalignment

(5) Discoloration

(6) Corrosion

(7) Build-up of dirt and debris

(8) Build-up of old grease and oil

(9) Worn springs

(10)Gears out of alignment

(11)Missing, loose, broken, worn or corroded hardware

c. Lubricate internal parts as per the OEM manual (as applicable).

d. Install hoist cover as per the OEM manual (as applicable).

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

11. Perform operational check IAW OEM operator's manual.

NOTE: Load test shall be performed in normal area of use.

12. Ensure attach points and/or structures are rated for the weight of testing requirements.

13. Perform load testing. Comply with MPC P30009.0.

C FINAL STEPS

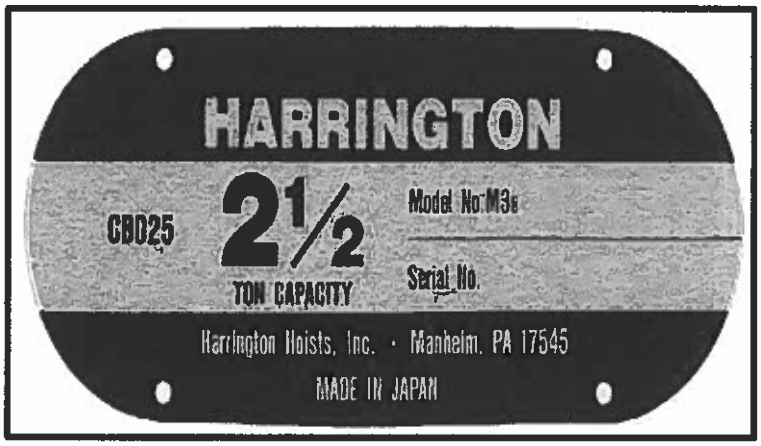
1. Secure asset.
2. Stow asset.

NOTE: Report completion of annual inspection to Support Equipment Product Line MPC Sign Off.

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

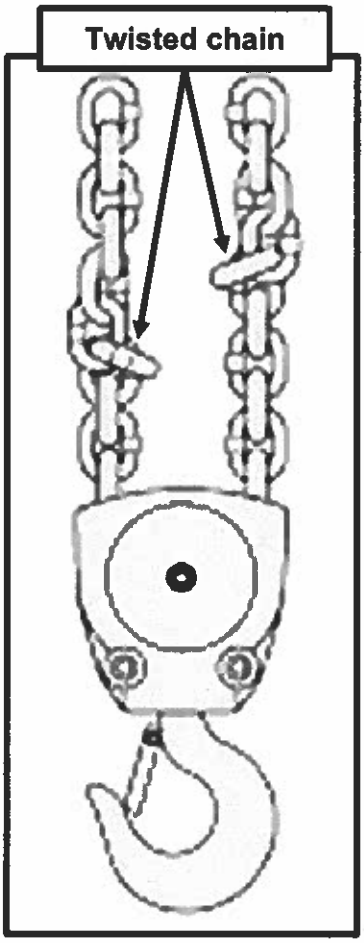
NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

3. Report discrepancies found (as applicable).
4. Document discrepancies found (as applicable).
5. Document completion.



OEM DATA PLATE

Figure 1



EXAMPLE OF CAPSIZING

Figure 2

U.S. COAST GUARD	CHAIN HOIST (MANUAL) P30009.0 REV'D: 06/30/2025

SEPL ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERIAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**TEST**	**CHAIN HOIST (MANUAL)**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

EQUIPMENT SERIAL NUMBER	ELAPSE/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO____ YES____

MAN HOURS: RATE___.___ RATE___.___ RATE___.___ RATE___.___ FN/SN___.___ CIV___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM MANUAL(S)

ASME 30.10 series

ASME 30.16 series

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED

1 MANUAL CHAIN HOIST LOAD TEST

REFERENCES:
MPC S00054.0
MPC S00055.0

TOOLS/TEST EQUIPMENT:
Test Weight Material

EXPENDABLES:
NONE

CONSUMABLES:
NONE

A PRELIMINARY STEPS

NOTE: Load testing is required upon initially being placed into service, upon permanent relocation and after repair. Chain hoists frequently relocated for use in rigging and material handling need not be load tested each time they are moved provided the mounting device/location has a current load test.

NOTE: Refer to the applicable OEM manual for model specific maintenance requirements. If OEM manual is not obtainable contact SEPL (ALC-ALC-SEPL@uscg.mil) for guidance on inspection criteria.

1. Verify OEM service/maintenance manual is accessible.
2. Ensure the area is safe for maintenance.
3. Ensure assets annual inspection is current.
   a. Comply with annual inspection MPC S00054.0 (as applicable).

   NOTE: Use of specialized or certified test weights is not required, the weight of the test load must be determined through accurate and reliable means. Units may use organic resources for test weight materials if they are independently weighed prior to use.
4. Gather test weight material matching the maximum rated load specification as indicated in the operations manual.

   NOTE: Weighing the test material is not required if using test standards with known weights.
5. Weigh the test weight material(s) to be lifted to ensure the accuracy to be within plus or minus five (5) percent of rated capacity.
6. Comply with MPC S00055.0.

B TEST

NOTE: This test shall be completed by command designated Competent personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT.

NOTE: The load test may be completed either organically or by a certified contractor. Completion and resources used for each shall be annotated in Steps 1 C 3 thru 1 C 5.

NOTE: Load test shall be performed in normal area of use.

WARNING

SE ASSET SHOULD BE TAGGED AS OUT OF COMMISSION (OOC) PENDING ANNUAL LOAD TEST UNTIL THE TESTING IS COMPLETE. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

WARNING

DUE TO THE HEIGHT OF THE MANUAL CHAIN HOIST OR ATTACH POINTS IT IS ESSENTIAL TO PERSONNEL SAFETY THAT APPROVED LADDERS, PERSONNEL LIFTS AND/OR SCAFFOLDING IS USED WHILE SERVICING THE MANUAL CHAIN HOIST. DON PERSONAL FALL ARREST SYSTEM WHEN WORKING AT HEIGHTS OF 6 FEET OR GREATER. ENSURE SYSTEM IS APPROPRIATELY SECURED TO STABLE TIE-OFF POINT. ENSURE SYSTEM IS SET SO THAT WORKER NEITHER FREE FALLS MORE THAN 6 FEET NOR COMES IN CONTACT WITH A LOWER LEVEL OR WATER IN THE EVENT OF A FALL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

NOTE: Direct access to the hoist and attach point may require use of an aerial work platform, personnel lift, scaffolding or an extension ladder.

1. Verify maximum load capacities on asset data plate, (Refer to Figure 1).

WARNING

ONLY QUALIFIED OPERATOR'S ARE AUTHORIZED TO OPERATE THE ASSET TO ACCOMPLISH THE FOLLOWING STEPS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

WARNING

TO ENSURE THE SAFETY OF ALL PERSONNEL INVOLVED IN THE LOAD TESTING, BRIEF ALL PERSONNEL OF TEST TO BE PERFORMED AND POSSIBLE HAZARDS. ALSO, NEVER EXCEED THE SPECIFIED TEST WEIGHT AND ENSURE THAT ALL PERSONNEL ARE WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

WARNING

NEVER EXCEED 125% OF RATED LOAD CAPACITY. FAILURE TO COMPLY MAY CAUSE SERIOUS EQUIPMENT FAILURE AND/OR PERSONAL INJURY.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

NOTE: Refer to the asset operator's manual for appropriate procedures.

2. Perform load test.
   a. Attach the test weight material to the hoist with load rated rigging apparatus of approved weight for load being lifted.
   b. Raise the load to a height of 1 to 2 feet for a minimum of 2 minutes to ensure the hoist doesn't lower or drop the load.
   c. Return load to deck level.
   d. Remove test weight material.

C FINAL STEPS

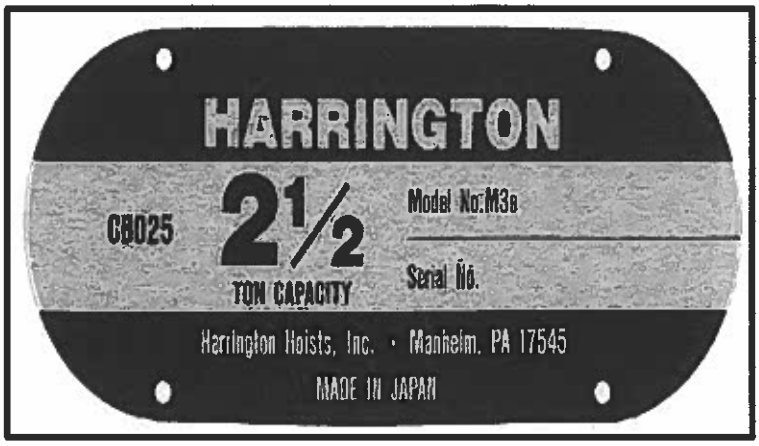
1. Secure asset.
2. Stow asset.

NOTE: Report completion of load test to Support Equipment Product Line MPC Sign Off.

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

NOTE: Report inability to complete the load test or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

3. Report any discrepancies found (as applicable)
4. Document any discrepancies found (as applicable).
5. Document completion.



OEM DATA PLATE

Figure 1

U.S. COAST GUARD	TELEHANDLER S00005.0 REV'D: 02/11/2026

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO.	CMS CODE	ACTION	DESCRIPTION	CEINUM
[1] DUE	N/A	**INSPECT**	**ANNUAL INSPECTION**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

ENGINE SERIAL NUMBER	ELAPS/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO YES

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

_____

_____

_____

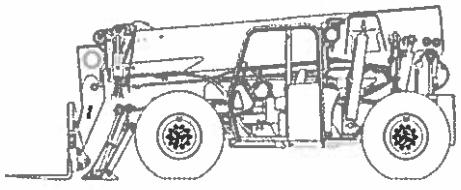
TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM SERVICE MANUAL

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



1 TELEHANDLER ANNUAL INSPECTION

REFERENCES:
P30001.0

TOOLS/TEST EQUIPMENT:
Compressor, Air, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)
Gauge, Tire, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)
Tester, Antifreeze, P/N: GG-T-250, CAGE: N/A, NIIN: 6630-00-247-2968 (or equivalent)
Wrench, Torque, P/N: N/A, CAGE: N/A, NIIN: N/A (with range suitable for asset)

EXPENDABLES:
NONE

CONSUMABLES:
Antifreeze, P/N: GG-T-250, CAGE: N/A, NIIN: N/A (or equivalent)
Corrosion Preventative Compound NSN: 8030-01-631-4012 (Or equivalent)
Fluid, Brake, P/N: N/A, CAGE: N/A, NIIN: N/A (As applicable to model)
Fluid, Hydraulic, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Fluid, Power Steering, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Fluid, Transmission, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Fluid, Windshield Washer, P/N: A-A-59664, CAGE: N/A, NIIN: 6850-00-926-2275 (or equivalent)
Oil, Engine, P/N: N/A, CAGE: N/A, NIIN: N/A (as applicable to model)
Water, Distilled, P/N O-B-41 CAGE: N/A, NIIN: N/A (if required)

A PRELIMINARY STEPS

1. Ensure OEM service/maintenance manual is accessible.
2. Ensure area is safe for maintenance.

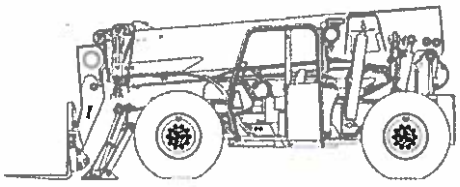
CAUTION

DO NOT SPRAY DIRECTLY INTO LIGHTS, WIRING HARNESSES, WIRE LOOM CONNECTORS, BEARINGS, AXLES, SHAFTS, ENGINE COMPONENTS, OR EXHAUST SYSTEMS.

CAUTION

DO NOT DIRECT SPRAY AS TO REMOVE MARKINGS OR PAINT FROM COMPONENTS.

NOTE: Support Equipment may be cleaned by any method or combination of processes that will not degrade components or systems.



NOTE: Support Equipment washes are of concern due to the detergents or other cleaners that will end up in the water. Units shall be cognizant of federal, state, and local regulations for this effluent and utilize appropriate wash areas.

NOTE: Cleaning Compounds may contain phosphates and shall not be used in areas that prohibit its use.

3. Ensure Support Equipment asset is clean in preparation for inspection in accordance with OEM maintenance manual.
   a. Tape openings and seal with barrier material to prevent moisture intrusion prior to washing.
   b. Ensure exterior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants
   c. Ensure interior surfaces are clean and free of the following:
      (1) Dirt
      (2) Dust
      (3) Grease
      (4) Contaminants

CAUTION

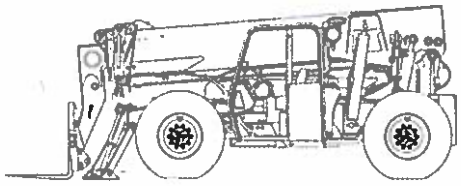
THE AIR STREAM OF PREPARED (FILTERED AND DRIED AIR) SHALL BE DIRECTED AWAY FROM COMPONENTS.

NOTE: Support Equipment may be dried using compressed air. Wiping rags or wiping papers may be used provided they are linen, combed cotton, or lint free, non-woven fabric as listed by the General Services Administration (GSA).

4. Dry the support equipment.

B INSPECT

NOTE: This inspection shall be completed by command designated Competent Personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING SUPPORT EQUIPMENT or through certified contract inspectors.



NOTE: The annual inspection and annual load test may be completed independently and by different resources (Organic/Contractor). Completion and resource used for each shall be annotated in Step 1 C 1.

NOTE: Ensure Support equipment asset is as clean as possible prior to inspection.

1. Inspect the manufacturer's data/identification plate (Refer to Figure 1):
   a. Verify the plate is permanently affixed to the equipment.
   b. Verify the plate is legible.

WARNING

THE LOAD CHART MUST BE SPECIFIC TO THE ASSET. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

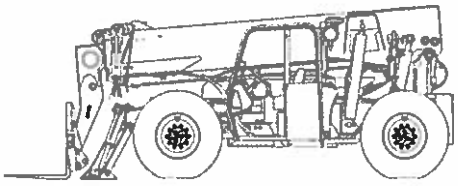
2. Verify the load chart specific to the piece of equipment is available on the asset. (Refer to Figure 2)
   a. Verify the load chart is legible.

WARNING

ENSURE EQUIPMENT IS PROPERLY TAGGED OUT. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH

NOTE: Utilize the OEM's specifications specific to the Support Equipment model being assessed.

3. Complete Equipment Lockout/Tags-Plus Process IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.
4. Inspect the operator controls (local and remote) for the following:
   a. Correct labels and markings.
   b. Move freely through all positions.
   c. Handles, levers, and buttons are securely fastened.
   d. Pedals are equipped with rubber pads or non-slip coating.
   e. Operator seat is not missing, loose or damaged.
   f. Operator restraint system/seat belt is equipped and functional.
   g. Dash gauges are clearly marked.
   h. Ensure Load Moment Indicator (LMI) (if applicable) is calibrated and operable in accordance with OEM service manual.



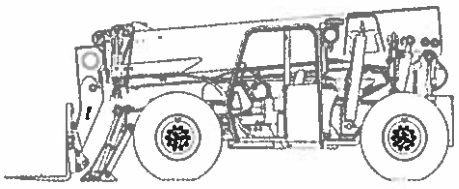
i. Verify horn operation.

j. Mirrors are clean and free of damage. (if applicable)

5. Inspect cab doors (if applicable) for alignment, proper closure, and security.
   a. Inspect door seals for damage, deterioration, and proper fit.
6. Verify the following exterior markings are legible:
   a. Fuel type marking (e.g., DIESEL FUEL ONLY)
   b. Battery identification plate or marking

NOTE: See ALCOAST 295/25 SUPPORT EQUIPMENT DATA PLATE VERIFICATION AND ADDITIONAL MARKING REQUIREMENTS FOR WEIGHT AND MATERIAL HANDLING EQUIPMENT for mandated Working Load Limit, Vehicle Weight and Safety Inspection Date markings.

   c. Working Load Limit marking(s) on the sides and mast)
   d. Vehicle weight marking(s)
   e. Safety Inspection Date
   f. Verify inspection date is current.
   g. SEPL Asset identification decal with number
   h. Tire pressure marking (as required)
   i. Instruction plates
   j. Unit property tag
   k. Any other affixed warning decals and labels
7. Inspect the equipment exterior for the following:
   a. Missing, damaged, or loose hardware.
   b. Damaged body panels or protective enclosures.
   c. Damaged or dry rotted windshield wipers. (if applicable)
   d. Fluid on the floor/deck under the equipment.
   e. Evidence of corrosion, rust or cracking or peeling panel materials.
   f. Exterior paint is smooth and not peeling.
   g. Bent, cracked, or worn accessories.
   h. Missing, loose, or poor fitting covers, panels.
   i. Damaged overhead guard and/or load backrest (cargo guard).
   j. Hydraulic lines are free of paint, routed correctly and secured.
   k. Gas cylinder valve protective device(s) are in place, (if applicable).



l. Towing devices, hitch pins, tow chains, etc. are attached as applicable.

m. Inspect wheels and tires as follows:

(1) Inspect the wheels for the following:

(a) Dents

(b) Bends

(c) Cracks

(d) Attachment hardware is torqued properly in accordance with OEM service manual.

(2) Inspect the tires for the following:

(a) Scrapes

(b) Bulges

(c) Cuts

(d) Foreign object damage

(e) Dry rot

(f) Irregular wear

WARNING

TIRES AND WHEELS CAN COME APART WITH EXPLOSIVE FORCE IF NOT HANDLED PROPERLY. USE EXTREME CARE WHEN HANDLING OR INFLATING TIRES.

(3) Ensure tire pressure (if applicable) is within the manufacturer's specifications.

(a) Add air as needed to meet manufacturers' specifications.

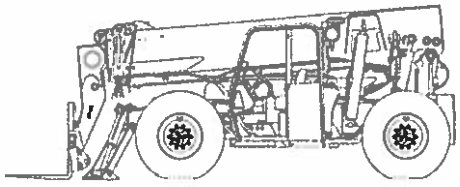
n. Inspect the fire extinguisher cylinder (if applicable).

(1) Check that the gauge is registering in the green (as required)

(2) Check that the wire seal has not been broken.

(3) Verify inspection tag data is current.

(4) Check nozzle and hose for defects and damage.



8. Inspect the engine/motor compartment:

WARNING

ENSURE ALL DOORS, HATCHES AND PANELS ARE PROPERLY SECURED UPON OPENING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

a. Open all compartment access points.

b. Verify no missing, damaged, or loose hardware.

c. Verify any insulation is properly attached.

NOTE: All fluid levels and pneumatic pressures should be verified against levels/pressures identified in the OEM Service Manual for the asset being inspected.

d. Check the hydraulic system.

(1) Inspect the hydraulic tank for damage.

WARNING

AVOID EYE AND SKIN CONTACT WITH HYDRAULIC FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION. USE IN A WELL-VENTILATED AREA. WASH EXPOSED SKIN AND CONTAMINATED CLOTHING THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

NOTE: Some assets may require removal of panels attached with hardware for increased access.

(2) Check the hydraulic fluid level.

(a) Add OEM recommended hydraulic fluid (or equivalent) as needed to raise the level within manufacturers' specifications.

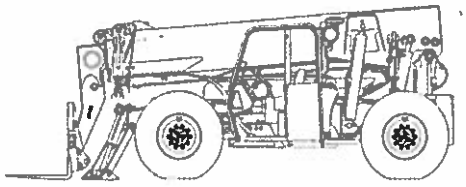
e. Check the engine oil level.

WARNING

AVOID EYE AND SKIN CONTACT WITH OIL. KEEP AWAY FROM ALL SOURCES OF IGNITION. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended engine oil (or equivalent) as needed to raise the level within manufacturers' specifications.

f. Check the transmission fluid level.



WARNING

AVOID EYE CONTACT, SKIN CONTACT, AND INHALATION WITH AUTOMATIC TRANSMISSION FLUID. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN AND CONTAMINATED CLOTHING THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended transmission fluid (or equivalent) as needed to raise the level within manufacturers' specifications.

g. Check power steering fluid level.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH POWER STEERING FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

(1) Add OEM recommended power steering fluid (or equivalent) as needed to raise the level within manufacturers' specifications.

h. Check brake fluid level.

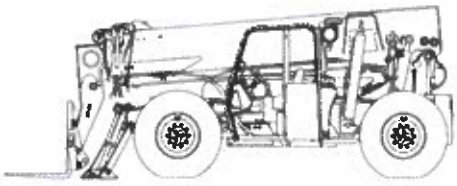
WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH BRAKE FLUID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROTECTIVE GLOVES REQUIRED. USE OF SPLASH PROOF GOGGLES AND/OR FACESHIELD REQUIRED DURING USE. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

CAUTION

AVOID CONTACT WITH ANY SURFACES OTHER THAN BRAKE FLUID RESERVOIR. BRAKE FLUID IS CAUSTIC AND WILL DAMAGE OTHER COMPONENTS AND REMOVE PAINT.

(1) Add OEM recommended brake fluid (or equivalent) as needed to raise the level within manufacturers' specifications.



i. Check the fuel system.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH KEROSENE, DIESEL, AND/OR FUEL. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

(1) Check the fuel filter housing for signs of leakage.

(2) Check the fuel-water separator (if applicable).

(a) Drain as required.

NOTE: On liquid propane and compressed natural gas-type equipment, the mechanical-type fuel gauge may be mounted directly on the gas tank. Dual-fueled material handling equipment shall not be operated unless the gasoline fuel tank is at least 1/4 full. Electric-powered types should be in "green" power range.

(3) Check the fuel level.

(a) Add OEM recommended fuel (or equivalent) as needed within manufacturers' specifications.

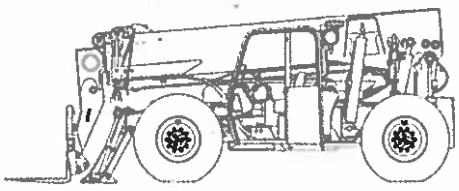
WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH DIESEL EXHAUST FLUID (DEF). KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

NOTE: Diesel Exhaust Fluid (DEF), commonly referred to as AdBlue in Europe, is an emissions control liquid required by modern diesel engines. It is injected into the exhaust system. DEF is never added to diesel fuel. It is a non-hazardous solution of 32.5% urea in 67.5% de-ionized water. It has a slight smell of ammonia, similar to home cleaning agents. DEF is used in Selective Catalytic Reduction technology to remove harmful NOx emissions from diesel engines.

(4) Check the DEF level (if applicable).

(a) Add OEM recommended DEF (or equivalent) as needed within manufacturer's specifications.



WARNING

CHECK THE COOLANT LEVEL ONLY WHEN THE ENGINE IS STOPPED. WAIT UNTIL THE TEMPERATURE IS BELOW 50°C [120°F]. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

j. Check the engine coolant system.

(1) Inspect coolant hoses for leaks or damage.

(2) Check radiator fluid for cleanliness, evidence of leakage, and coolant level.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION WITH COOLANT. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL-VENTILATED AREA. USE OF PROTECTIVE GLOVES REQUIRED. USE OF SPLASH PROOF GOGGLES AND/ OR FACESHIELD REQUIRED DURING USE. WASH EXPOSED SKIN THOROUGHLY AND IMMEDIATELY REMOVE CONTAMINATED CLOTHING AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.

(a) Add OEM recommended coolant (or equivalent) as needed to raise the level within manufacturers' specifications.

NOTE: Support Equipment will have a minimum 50 percent antifreeze mixture at all times or arctic antifreeze protection (-25 degrees of protection)

(3) Check coolant mixture freezing point with the antifreeze coolant tester, P/N GG-T-250, or equivalent.

(4) Inspect fan shroud for security, evidence of corrosion, and/or cracking.

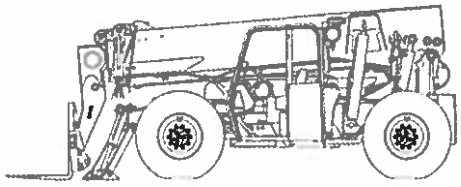
(5) Inspect radiator hoses and clamps for leakage, deterioration, and security.

(6) Inspect water pump for leakage.

(7) Inspect cleanliness of radiator fins/coils.

NOTE: Belt tension may be checked by a firm push with the thumb at a point midway between the pulleys. A properly adjusted belt will depress 3/8 to 1/2 inch.

k. Inspect drive belts for cracks, deterioration, fraying, excessive wear, and proper tension.



WARNING

AVOID EYE AND PROLONGED SKIN CONTACT WITH WINDSHIELD WASHER FLUID. AVOID BREATHING CONCENTRATED VAPORS. CONTAINS DILUTED ISOPROPYL ALCOHOL OR OTHER CHEMICAL TO PROTECT AGAINST FREEZING. WASH THOROUGHLY AFTER USE.

l. Check windshield washer reservoir fluid level (if applicable).

(1) Add OEM recommended windshield washer fluid (or equivalent) as needed to raise the level within manufacturers' specifications.

WARNING

LEAD/ACID STORAGE BATTERIES CONTAIN LEAD, ARSENIC, AND SULFURIC ACID (KNOWN CARCINOGENS). AVOID EYE AND SKIN CONTACT. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. WEAR CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD, RUBBER GLOVES, AND APRON. USE IN WELL- VENTILATED AREA. AVOID INHALATION AND INGESTION. CAUSES RESPIRATORY DAMAGE, BURNS OF THE MOUTH, THROAT, AND INTESTINAL TRACT. WEAR HALF MASK WITH DUST AND ACID MIST FILTER IF MIST IS PRESENT. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

WARNING

AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH BATTERY ACID. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

m. Inspect Battery(s)

(1) Verify battery mounts and hold downs are secure.

(2) Verify battery(s) are fully charged.

(3) Use a good voltmeter or multimeter to determine the open circuit voltage (OCV) without any load applied to the battery.

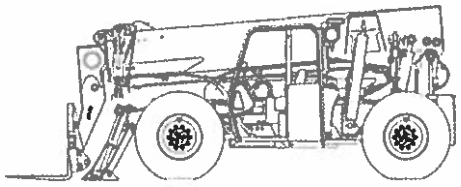
(4) Verify voltage is within OEM specifications.

CAUTION

GEL BATTERIES DO NOT REQUIRE AN ELECTROLYTE CHECK. ATTEMPTING TO ACCESS INTERNAL COMPONENTS WILL DAMAGE THE BATTERY.

(5) Verify electrolyte level within batteries.

(a) Remove battery caps.



NOTE: The electrolyte level in a fully charged battery should be at least ½" above the internal plates.

(b) Visually inspect internal electrolyte levels.

CAUTION

ONLY USE DISTILLED WATER. DO NOT USE TAP WATER. FAILURE TO COMPLY MAY RESULT IN PREMATURE COMPONENT FAILURE.

(c) Add distilled water as needed to raise the level within manufacturers' specifications.

(6) Inspect the battery connections for the following:

(a) Battery cable damage, cuts, and abrasions

(b) Securely fastened to connector lugs

(c) Free of rust and/or corrosion

(d) Signs of arcing

(e) Pitting

(f) Exposed conductor material

(g) Loose connections

(h) Properly coated with corrosion preventative compound, NSN 8030-01-631-4012 (or equivalent)

n. Verify wire harnesses are not frayed, brittle, or loose.

o. Verify engine belts are not frayed, brittle, or loose.

p. Verify air cleaner restriction indicator (if applicable) is functioning.

q. Ensure gas cylinder valve protective device(s) are in place, (if applicable).

r. Close all compartment access points.

9. Inspect the carriage, fork, and boom assemblies for the following:

a. No missing, damaged, or loose hardware.

b. No weld cracks, leaks, or other damage.

c. Hydraulic lines are free of paint, routed correctly and secured.

d. Mast rollers are undamaged, clean and free of debris.

e. Grease fittings (on components) are fully filled and accessible.

f. Ensure all high friction areas are lubricated.

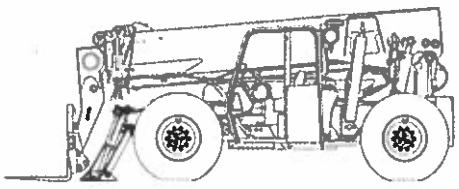
g. No carriage frame deformation or cracks.

h. Fork heel pins and locks (as applicable) are fully functioning.

i. Lift/extension/retraction drive chains and anchor pins (as applicable) are secure and functional.

j. Forks are straight.

k. Boom sections have no excessive wear or crack deformation.



l. Auxiliary hydraulic connection points have no damage or leaks.

m. Auxiliary attachment pins are free from corrosion and attached.

10. Reconnect necessary Operating Components.

11. Remove Lockout/Tags-plus Material and Hardware IAW OSHA Regulations (Standards-29CFR) Subpart S, Electrical, Standard Number 1910.333.

12. Inspect operational functionality:

a. Get into the driver's seat.

b. Fasten the seat belt.

c. Verify keyed ignition switch operates in all settings.

WARNING

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WARNING

APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: Refer to asset operator's manual for appropriate starting procedures.

d. Start engine or energize motor, (local and remote stations)

e. Verify seat safety switch operates properly (if applicable).

f. Restart engine or Reenergize motor.

g. Verify all gauge's function properly.

h. Verify hour meter operates properly.

i. Verify there are no unusual noises.

j. Verify there are no exhaust leaks (if applicable).

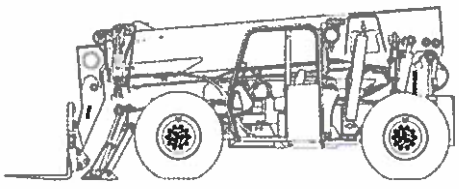
k. Check for arcing and operation of contactors, traction, steer and hydraulic pump motors (electric MHE only)

l. Verify emergency engine/motor stop operation (if equipped).

m. Verify all installed lights operate: brake, headlight, reverse, spotlight, strobe, etc.

n. Verify travel/motion audible signal operates (if equipped).

o. Verify no evidence of steering play or loose suspension when asset is in motion.



p. Check applicable steering modes (2-wheel, 4-wheel, crab).

q. Check for any leaks with engine at full operating temperature (fuel powered MHE only).

r. Check the brake system.

(1) Engage the parking brake.

(a) Ensure that no one is in front of or behind the equipment.

(b) Attempt to drive the equipment forward.

(c) Ensure the equipment does not move.

NOTE: Refer to asset operator's manual for appropriate starting procedures.

(2) Check the neutral start switch (if applicable).

(a) Verify that the parking brake is set.

(b) Ensure that no one is in front of or behind the equipment.

(c) Engage the directional control lever in either the forward or reverse position.

(d) Attempt to start the engine.

(e) Check the service brakes to verify they stop smoothly and evenly without pulling or binding.

(3) Check the dead-man brake or travel control disconnect device for proper operation (if applicable).

s. Verify the operation of the directional controls.

(1) Shift directional controls into forward.

(a) Check for proper operation.

(2) Shift directional controls into neutral.

(a) Check for proper operation.

(3) Shift directional controls into reverse.

(a) Check for proper operation.

(b) Ensure back-up alarm operates.

t. Check acceleration (all forward and reverse gears)

u. Check braking (at speed) if smooth and straight.

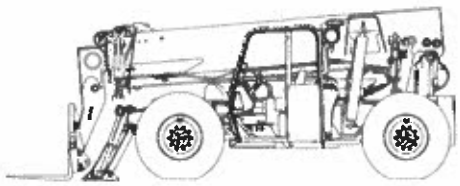
v. Check the turning radius/tracking.

w. Check clutch adjustment, engagement, and operation. (if applicable)

x. Ensure battery disconnect switch is operable (if applicable).

y. Verify hose reel functions smoothly.

z. Ensure manual or hydraulic stabilizer outriggers (as applicable) operate properly.



aa. Verify the mast control's function.

(1) Raise the lifting assembly.

(a) Verify the lifting assembly controls operate smoothly.

(2) Lower the lifting assembly.

(a) Verify the lowering assembly controls operate smoothly.

bb. Verify the tilt function operation.

(1) Confirm the tilt function operates properly.

(a) Tilt forks forward.

(b) Tilt forks back.

(2) Verify the operation of the side shift function, (if equipped).

(a) Confirm the side shift carriage operates properly.

1) Shift forks left.

2) Shift forks right.

cc. Check boom extension operation.

(1) Confirm the boom operates as follows:

(a) Extend boom out to the extension limit.

1) Verify smooth operation through all segments of the boom.

(b) Retract boom to full retraction limit.

1) Verify smooth operation through all segments of the boom.

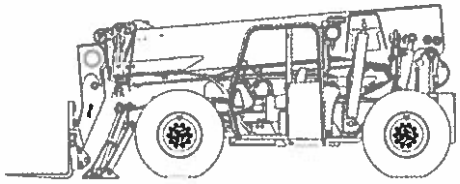
dd. Check Weight Scales (if equipped).

(1) Elevate the forks with no load.

(2) Verify that the weight scales read zero.

ee. Verify windshield wipers (if applicable) operate properly.

13. Comply with MPC P30001.0 for any manufacturer approved or SEPL authorized specialty attachments (as applicable).



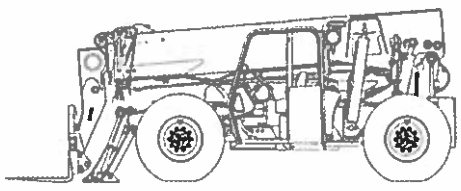
C FINAL STEPS

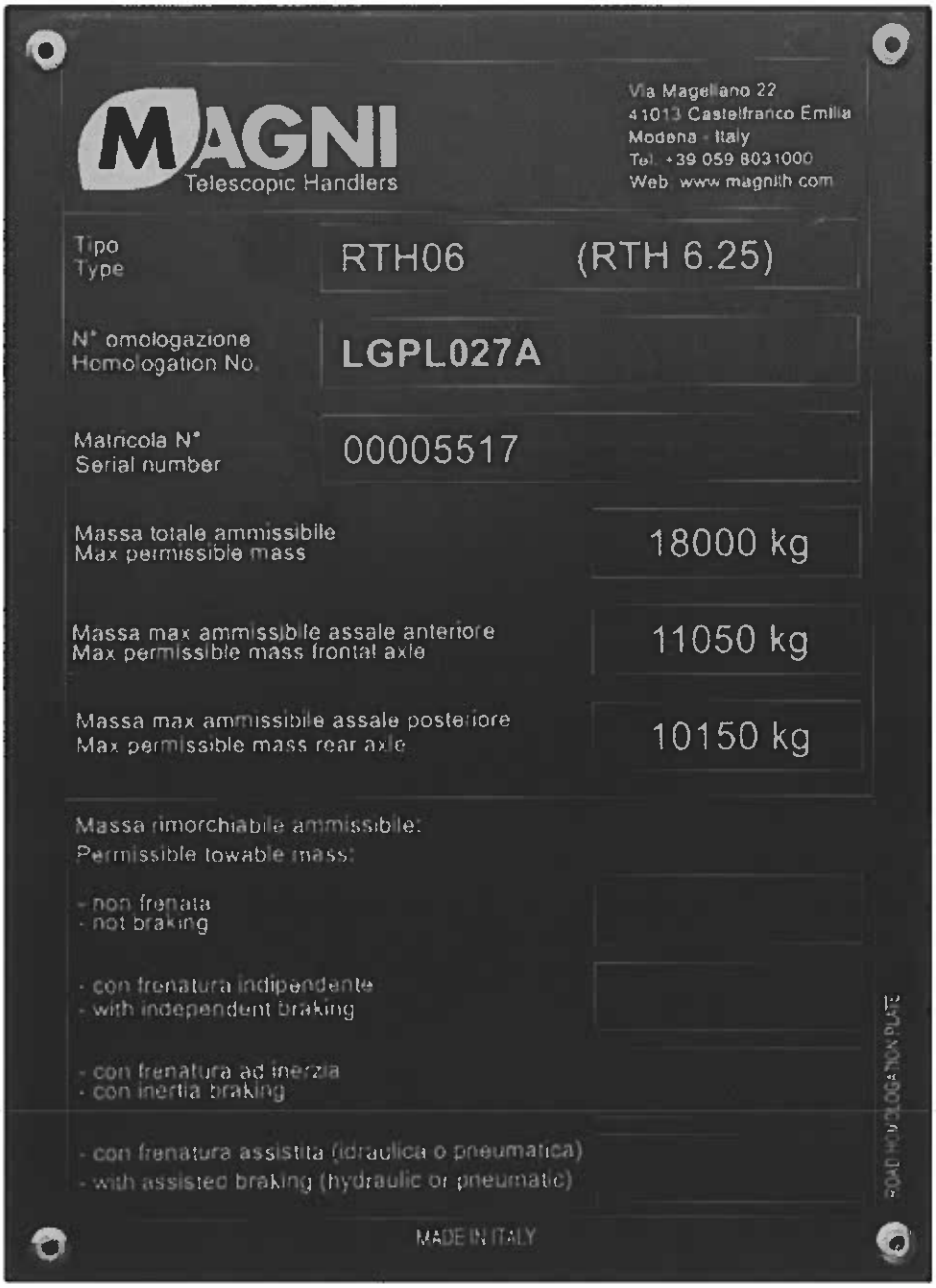
NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

NOTE: Report inability to complete the annual inspection or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

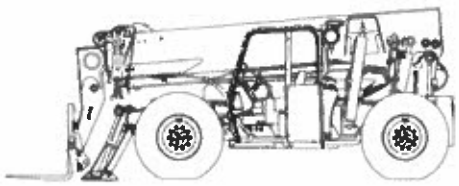
1. Document completion and any discrepancies found.

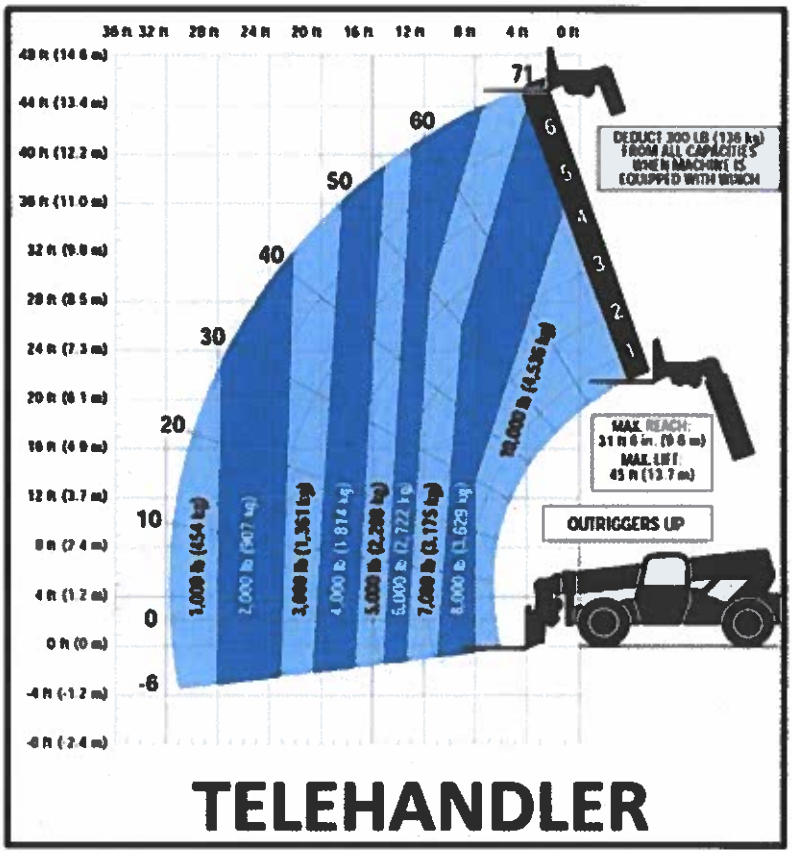




SAMPLE DATAPLATE

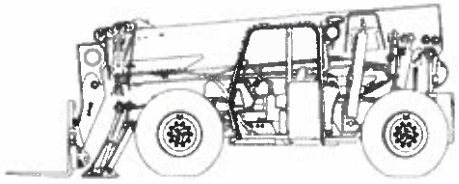
Figure 1





SAMPLE LOAD CHART

Figure 2



U.S. COAST GUARD	TELEHANDLER P30003.0 REV'D: 02/10/2026

ASSET NUMBER	OPERATING ACTIVITY	MAINTENANCE ACCOMPLISHED				MAINTENANCE DUE			
		DATE			ASSET HOURS	DATE			ASSET HOURS
		MO	DAY	YEAR		MO	DAY	YEAR	
		ZULU DATE			ZULU TIME				
		MO	DAY	YEAR					

SERAL NUMBER TRACKED ITEM – ALL INFORMATION REQUIRED

ITEM NO. [1] DUE	CMS CODE	ACTION	DESCRIPTION	CEINUM
	N/A	**TEST**	**LOAD TEST**	N/A

☐ SCHEDULED ☐ UNSCHEDULED

ENGINE SERIAL NUMBER	ELAPS/TIME CLOCK/ ECM HOUR READING

DISCREPANCIES FOUND: NO____ YES____

MAN HOURS: RATE_____ HOURS___.___ RATE_____ HOURS___.___ RATE_____ HOURS___.___ OTHER___.___

IF DISCREPANCIES ARE FOUND REMARKS ARE REQUIRED

REMARKS: _____

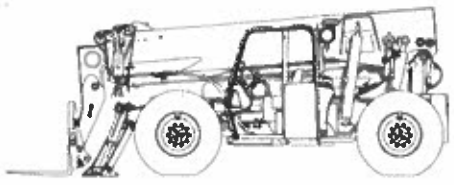
TECHNICIAN'S SIGNATURE	TECHNICIAN'S ID

*ASTERISK INDICATES QA REQUIRED	QA							

REFERENCES:

OEM Specific Technical Information

REVIEWED BY	LOG YN	DATA ENTRY COMPLETED



1 TELEHANDLER LOAD TEST

REFERENCES:
NONE

TOOLS/TEST EQUIPMENT:
TEST WEIGHT MATERIAL

EXPENDABLES:
NONE

CONSUMABLES:
NONE

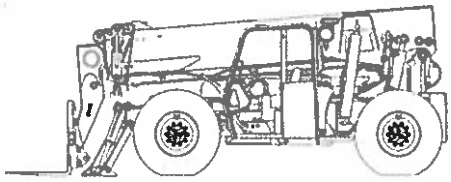
A PRELIMINARY STEPS

NOTE: Load testing is required in the following scenarios:
First use after six (6) or more months of non-use.
Forklifts that are used for handling hazardous materials (ammunition and explosives, molten metals, acids. strong caustics, and flammable and toxic materials).
First use after production or extensive repairs (whenever a load-bearing structure is removed, replaced or repaired). For example: Replacing a hydraulic hose doesn't require a load test. Although replacing a leaking hydraulic hose to a boom lift cylinder doesn't require a new load test, replacing the lift cylinder itself does require a load test.

NOTE: Although it's not expressly required by the Support Equipment Program, annual or other periodic load tests can always be mandated by unit or command SOPs.

1. Ensure area is safe for maintenance.
2. Ensure asset annual inspection date is current.

   NOTE: Use of specialized or certified test weights is not required, the weight of the test load must be determined through accurate and reliable means. Units may use organic resources for test weight materials as long as they are independently weighed prior to use.
3. Gather test weight material matching the maximum rated load specification as indicated in the OEM manual.
4. Weigh the test weight material(s) to be lifted to ensure the accuracy to be within minus five percent of rated capacity.
5. Complete Pre-Mission MPC S00006.0.



B TEST

WARNING

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WARNING

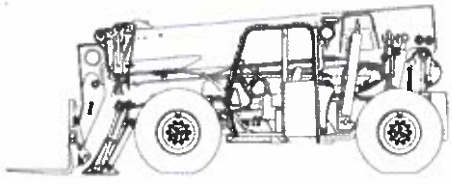
APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

NOTE: This inspection shall be completed by command designated Competent Personnel as defined in ALCOAST 346/24 INSPECTION AUTHORIZATION AND REQUIREMENTS FOR WEIGHT ANDMATERIAL HANDLING SUPPORT EQUIPMENT or through certified contract inspectors.

NOTE: The annual load test may be completed either organically or by a certified contractor. Completion and resource used for each shall be annotated in Step 1 C 1.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

1. Perform load test.
   a. Refer to asset data plate and asset load chart(s) for maximum load capacities, (Refer to figures 1 and 2).
   b. Get into the driver's seat.
   c. Fasten the seat belt.
   d. Start engine or energize motor.
   e. Test the primary brakes without a load.
   f. Deploy stabilizers as per operator's manual, (as applicable).



WARNING

EXCEEDING LIMITATIONS IDENTIFIED BY ASSET LOAD CHART(S) MAY CAUSE SERIOUS PERSONAL INJURY AND/OR COMPONENT FAILURE.

g. Load the test weight material with maximum load.

WARNING

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APPROPRIATE SAFETY PRECAUTIONS SHALL BE TAKEN AND PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY ALL PERSONNEL IN THE SURROUNDING AREA OF MATERIAL HANDLING OPERATIONS. FAILURE TO COMPLY MAY CAUSE SERIOUS PERSONAL INJURY.

CAUTION

EXCEEDING LIMITATIONS IDENTIFIED BY ASSET LOAD CHART(S) MAY LEAD TO COMPONENT FAILURE AND CAUSE SIGNIFICANT DAMAGE.

NOTE: If any step of the load test fails, immediately remove asset from service and inform the Support Equipment Product Line.

NOTE: If remote operation of the asset is available, it is acceptable to conduct any of the following steps remotely.

h. Raise the test weight to a height of 6-8 inches for a minimum of 15 minutes to ensure the vehicle doesn't lower or drop the load.

i. Return the test weight to deck level.

j. Adjust test weight for maximum load at maximum height/minimum reach.

k. Raise the test weight to maximum height/minimum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

l. Return the test weight to deck level.

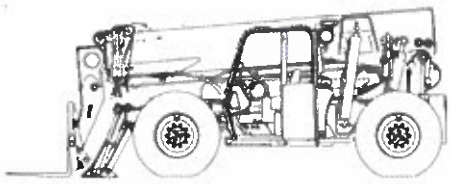
m. Adjust test weight for maximum load at minimum height/maximum reach.

n. Raise the test weight to minimum height/maximum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.

o. Return the test weight to deck level.

p. Adjust test weight for maximum load at maximum height/maximum reach.

q. Raise the test weight to maximum height/maximum reach for a minimum of 2 minutes to ensure the vehicle doesn't lower or drop the load.



r. Return the test weight to deck level.

s. Secure engine or motor.

t. Remove test weight materials.

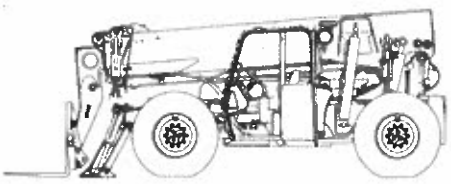
C FINAL STEPS

NOTE: Report completion of annual inspection to Support Equipment Product Line - MPC Sign Off (sharepoint-mil.us).

NOTE: Report any discrepancies requiring assistance to the Support Equipment Product Line. Submit a Technical and Equipment Authorization Request (TEAR) at https://uscg.sharepoint-mil.us/sites/TEAR.

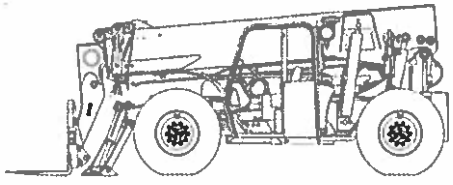
NOTE: Report inability to complete the annual load test or any other asset concerns to ALC-ALC-SEPL@uscg.mil.

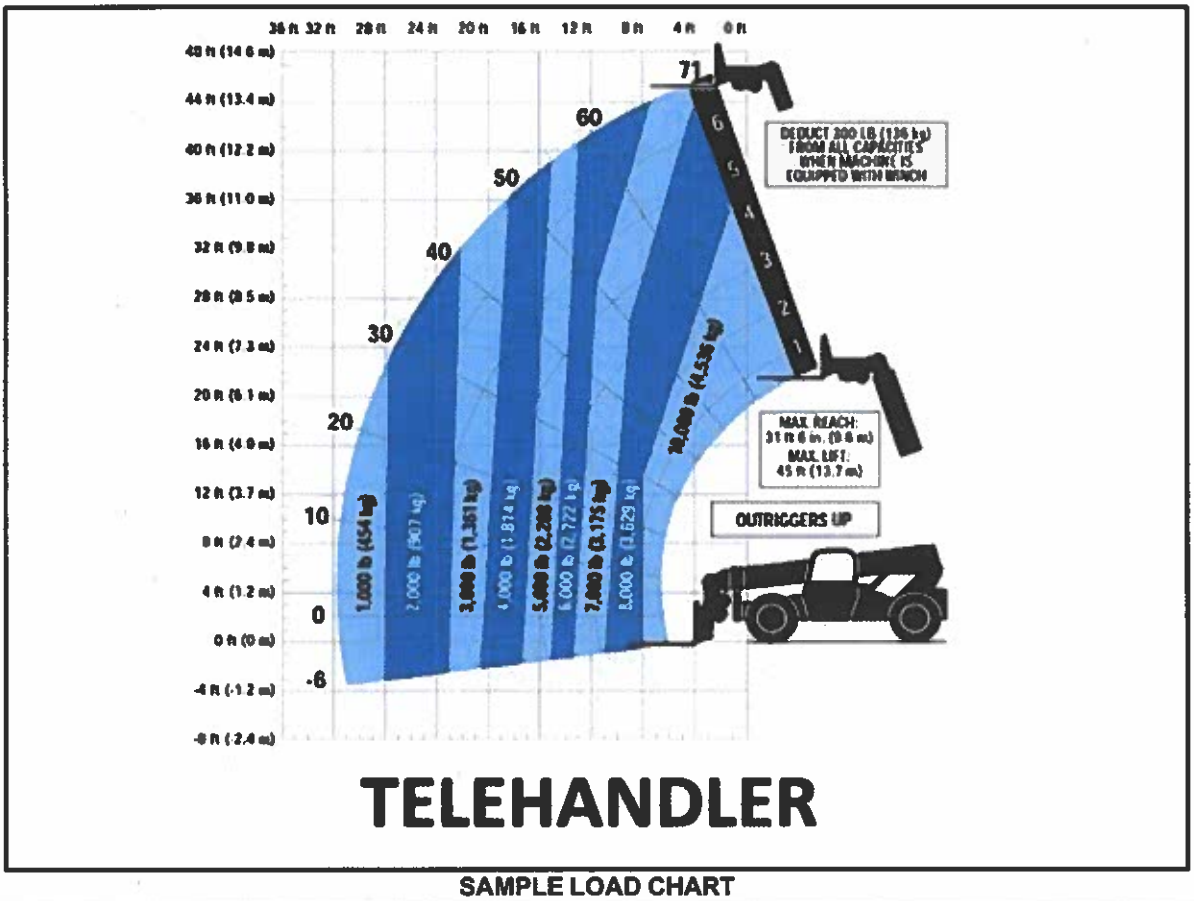
1. Document completion and any discrepancies found.



SAMPLE DATAPLATE

Figure 1





SAMPLE LOAD CHART

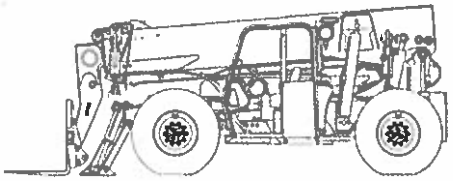



Figure 1