



**OSHKOSH
SPECIALTY
VEHICLES**

Operator and Service Manual

CCTV HDTV Outside Broadcast Trailer Type B 2.55m H x 4.0m H x 13m L



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North America

Corporate Headquarters
Oshkosh Specialty Vehicles
16745 South Lathrop Ave.
Harvey, IL
60426
USA
(001) 708.596.5066

Europe

Oshkosh Specialty Vehicles, Ltd.
Unit 17, Nelson Way
Tuscum Trading Estate,
Camberley, Surrey
GU15 3DH
United Kingdom
(44) 01276.64490

Buys Ballotstraat 6
3261 LA Oud-Beijerland, Holland
+31 (0) 186-614322
Fax . +31 (0) 186-619367
E-mail: smit@smit-mobile.nl



List of Revisions & Warnings

Revisions

00	Initial Release	January 2008
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Notice

In accordance with our policy of product development, Oshkosh Specialty Vehicles reserves the right to make changes in the equipment, design, specifications, and materials of the product described herein. If there are any inconsistencies between this manual and the mobile unit that inhibit serviceability, please contact Oshkosh Specialty Vehicles for assistance.

This manual is one of two (2) information documents provided in the mobile unit. The documentation package consists of:

Volume I –Operators Manual, and associated drawings

Volume II – Vendor Information

These volumes should be kept in the mobile unit at all times.

Any problems or questions related to the components or systems covered in this manual may be directed to:

Oshkosh Specialty Vehicles
16745 South Lathrop Avenue
Harvey, IL
60426
USA

(001) 800.839.0630 (24 hour service)

(001) 708.596.2480 (fax)

<http://www.oshkoshsv.com/>

Warnings & Safety Alert Conventions

The following terms define the various precautions and notices used in this manual:

NOTE:

Whenever information exists that requires additional emphasis beyond the standard textual information, the term “NOTE” is used.

IMPORTANT

The term “IMPORTANT” is used whenever information exists that requires special attention to procedures to ensure proper operation of the equipment or to prevent its possible failure.

CAUTION

The term “CAUTION” is used whenever potential damage to equipment exists, requiring correct procedures / practices for prevention.

WARNING

The term “WARNING” is used whenever potential personal injury or death situations exist, requiring correct procedures / practices for prevention.

DANGER

The term “DANGER” is used whenever immediate hazards exist that will result in personal injury or death that cannot be eliminated by design safeguards.



This safety alert symbol indicates important safety messages in the manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.

WARNING

Electrical, mechanical, pneumatic, and hydraulic safety devices have been installed on this vehicle to help protect against personal injury and / or damage to equipment. Under no circumstances should any attempt be made to disconnect or in any way render any of these devices inoperative.

If a malfunction of any safety device is discovered to exist, DO NOT operate the vehicle, but immediately notify appropriate maintenance personnel.

Oshkosh Specialty Vehicles shall have no liability with respect to: REPAIRS IMPROPERLY PERFORMED OR REPLACEMENTS IMPROPERLY INSTALLED (or) USE OF REPLACEMENT PARTS OR ACCESSORIES NOT CONFORMING TO Oshkosh SPECIALTY VEHICLE’S SPECIFICATIONS, WHICH ADVERSELY AFFECT PERFORMANCE OR DURABILITY (or) ALTERATIONS OR MODIFICATIONS NOT RECOMMENDED OR APPROVED IN WRITING BY Oshkosh SPECIALTY VEHICLES (or) FOR EQUIPMENT DAMAGE OR PERSONAL INJURY OR DEATH AS A RESULT OF RENDERING ANY SAFETY DEVICE INOPERABLE.

Certain inherent risks are associated with heavy trailers due to the nature of their use. Personnel working in the area of these trailers are subject to certain hazards that cannot be met by mechanical means but only by the exercise of intelligence, care, and common sense. It is therefore essential for the owner of this equipment to have personnel involved in the use and operation of these trailers who are competent, careful, physically and mentally qualified, and trained in the safe operation of this equipment.



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Section 1: Introduction



This manual is intended to instruct and assist personnel already qualified in the proper installation of the mobile unit. This manual is not intended to enable persons unfamiliar with the mobile unit to perform the setup and transport procedures.

This manual contains the basic information needed to setup, transport, and service the mobile unit. This mobile unit was designed to operate within certain limitations and specifications. When performing the setup or transport procedures for the mobile unit, follow the proper logical steps that have been outlined in this manual. The drawings in this manual are representative of this product. In accordance with our program of continued product development, designs and specifications are subject to change without notice.

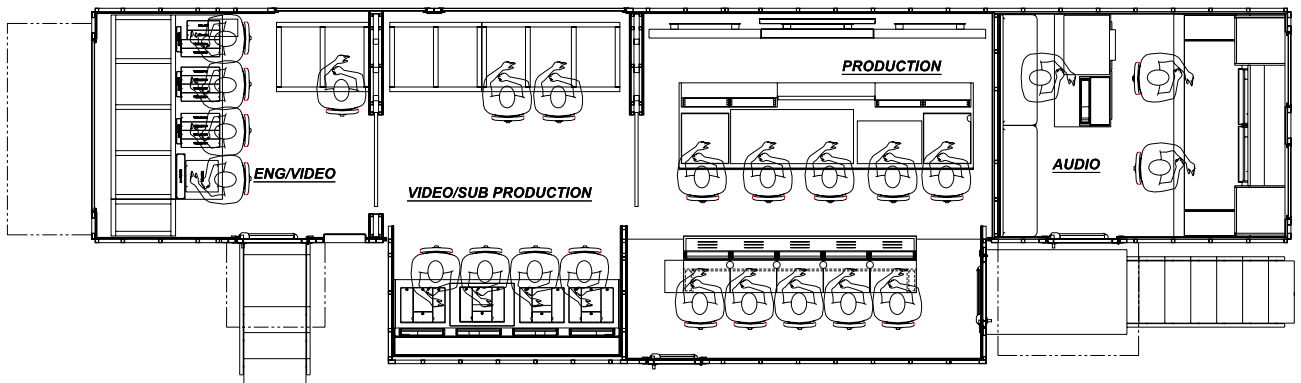


Figure 1: Mobile Broadcast Unit Floor Layout



Section 2: Safety Guidelines



Use and follow the appropriate Lockout/Tagout procedures as required by OSHA Standard 1910.147 when performing maintenance or servicing any electrical, hydraulic or pneumatic systems. See Appendix E for Lockout/Tagout procedures.



It is the operator's responsibility to make sure that the shore power receptacle is of the same type and voltage as the connection that is supplied by Oshkosh Specialty Vehicles.



Failure to do this can result in injury or death to the operator of the mobile unit as well as irreparable damage to the mobile unit.



Make sure that all electrical parts are serviced only by a certified electrician or qualified personnel.



Dangerous voltages are present which could result in injury or death.

Always make sure that eyes are protected while servicing the unit.



Wear safety goggles when prying, drilling, grinding, or working with batteries. Wear safety goggles over regular prescription glasses unless the lenses are made of hardened glass and can serve as safety goggles.

Be certain to disconnect the power before working on any of the electrical systems. Failure to do so can result in personal injury or death.

When servicing the unit be certain that a first aid kit and fire extinguisher are within reach at all times.

This safety section contains important safety guidelines that should be followed.

BEFORE attempting to service the mobile unit, read this safety section as well as all other safety sections found in applicable manufacturer's manuals in the Vendor Information binder.

Please call Oshkosh Specialty Vehicles Customer Service at 800-839-0630 if you need help or advise regarding the Operation or Service of this unit.

2.1 General Safety Precautions

Make sure the work area is well ventilated.

Disconnect the electrical power to prevent the possibility of electrical shock when servicing all electrical equipment.

Follow all manufacturers' directions.

Read the Material Safety Data Sheets (MSDS) where applicable.

Always keep tools clean and free of grease.

NEVER stand on chairs inside of the mobile unit under any circumstances. ALWAYS use a ladder.

Follow all safety precautions found in the documentation package that is included with the mobile unit.

2.2 Electrical Safety



Use and follow the appropriate Lockout/Tagout procedures as required by OSHA Standard 1910.147 when performing maintenance or servicing any electrical, hydraulic or pneumatic systems.

See Appendix E for Lockout/Tagout procedures.



Before connecting or disconnecting from shore power, it is imperative that the Shore Power Disconnect Switch be moved to the "OFF" position.

Failure to do this can result in injury or death to the operator of the mobile unit.



It is the operator's responsibility to verify that the shore power receptacle is of the same type and voltage as the connection that is supplied by Oshkosh Specialty Vehicles.

Failure to do this can result in injury or death to the operator of the mobile unit as well as irreparable damage to the mobile unit.



Always inspect the power cable, connectors, and fasteners before usage. If you believe that either internal or external damage has occurred, have a certified electrician inspect and repair the damage before using.

When working with the electrical system for the mobile unit, follow the warnings and cautions listed above.

2.3 Transportation Safety



Check the tires before every trip for wear, cuts breaks, cracks, defects, objects caught or penetrating the tire carcass and for proper inflation. Check tire pressure when the tires are cool and maintain the air pressure molded into the sidewall. Do not operate a trailer with tires that have the internal reinforcing wires or belt showing or less than 2/32" tread depth, when measured at a major tread groove. See 49 CFR Sec. 570.9(a). Replacement tires MUST BE Radial.

Walk around the unit to make certain that:

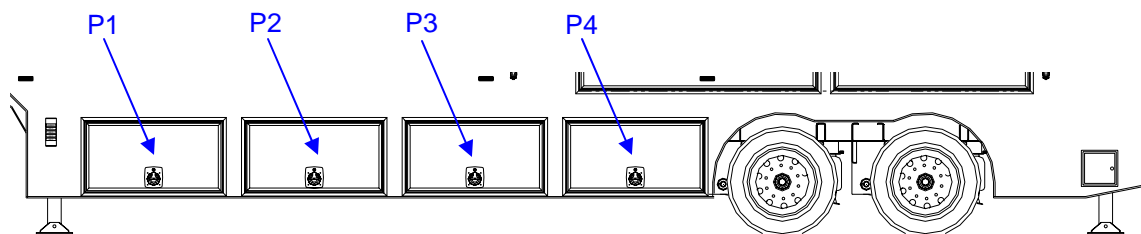
- All doors are closed and locked.
- The Platform Lift is seated in the retaining cradles; with the transport pins and restraining cable installed.
- If any of the warning lights are illuminated, do not move the mobile unit.
- Before moving the mobile unit, verify that all marker and running lights are working properly.
- Consult with the local DMV to determine if there are any travel restrictions on planned routes.

Section 3: Mobile Unit Overview

The general components of the mobile unit can be found below. With each component, a description will be found to better illustrate the components of the mobile unit.

3.1 Compartment Layout and Item Placement for Broadcast Unit

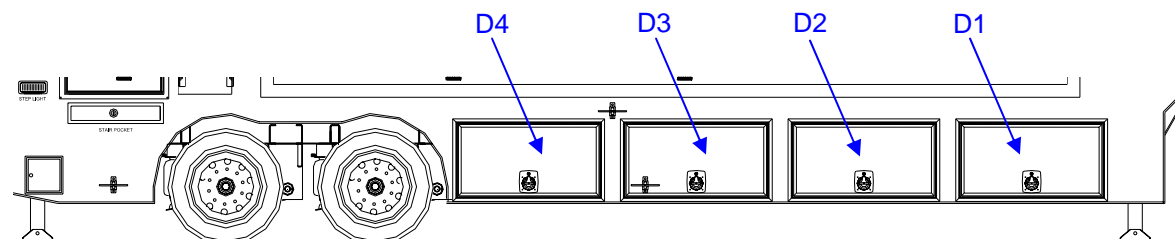
The following table represents the underbody compartment structure of the mobile unit. Please refer to the table when preparing the mobile unit for operations, or for transport.



Left Side Lower Compartments

Comp P1:	DC Converter Panels, DC Distribution Panel, Batteries, DC Power Disconnect Switches, Multi-tap Transformers
Comp P2:	Air Compressor, Storage
Comp P3:	Storage.
Comp P4:	Storage

Note: The multi-tap Transformers are located between the P1 and D1 compartments in the front center between the I-Beams

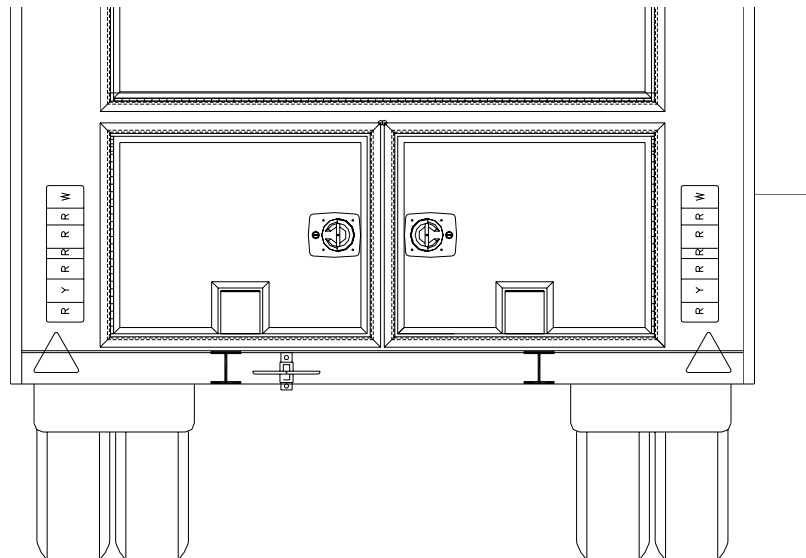


Right Side Lower Compartments

Comp D1:	Landing Leg Controls, Digital Levels, Multi-tap Transformers
Comp D2:	Slide-out Hydraulic Pump and Valve Assembly(Tray Mounted above floor), Storage
Comp D3:	UPS
Comp D4:	AVR Power Regulators.



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Rear Side Lower Compartment

Rear Awning Control Panel

Tech I/O Panel

Cable Reels and Controls

Shore Power Cables and Connectors

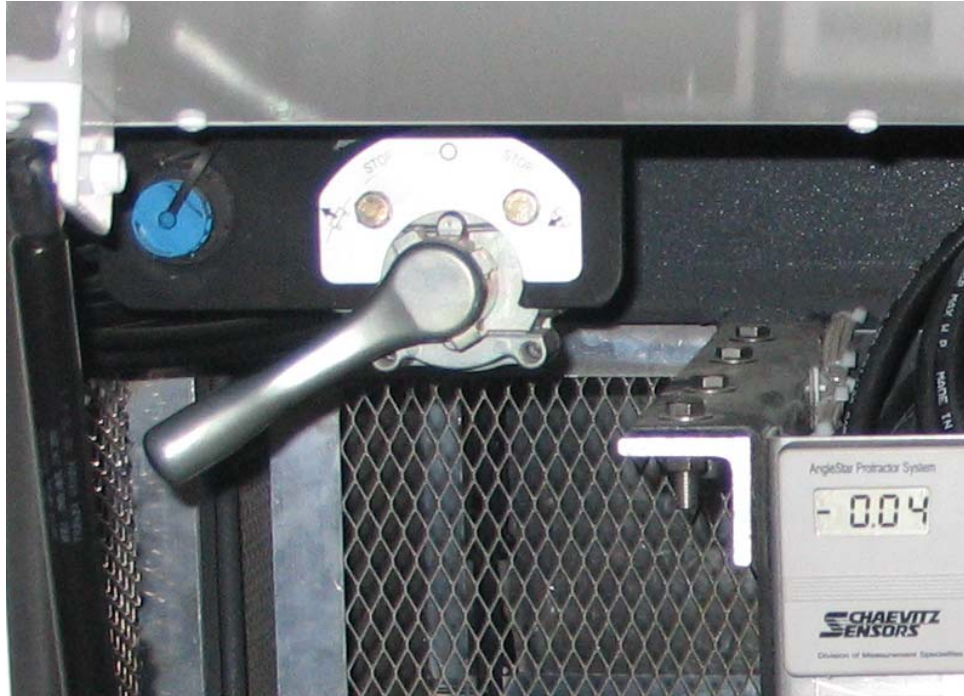
AC Power Input HVAC and Tech Panel

AC Power External Outlets

Earth Ground Stud, Ac Ground & Ground Bar Disconnects

3.2 Air Ride Control

The Air Ride Control is located in the right front lower compartment D1 of the mobile unit.



[Figure 2: Air Ride Control Valve and Parking Brake Valve](#)

3.3 Awning Control Switch

The Awning Control Switches are located inside the trailer next to the entry doors. The Rear Awning Control switch is located in the left rear lower compartment to the left of the I/O Panel. It is used to extend and retract the rear awning.



[Figure 3: Awning Control Panels](#)

3.4 Glad-hand Connections

The glad hand connections are located at the front of the mobile unit. The following connections can be found there. Additional airline adapter hoses for connecting to South African tractor units are included.



Figure 4: Glad-Hand Connectors

3.5 Battery Storage

The batteries are located inside of compartment P1.

The batteries are rechargeable. The recharging takes place when the mobile unit is running on AC power.

The Chargers are also located on the front wall in this compartment.



Figure 5: Batteries

3.6 Ground Lug and Disconnects

In the figure below are the Ground Lug and the Ground Disconnects. These are located in the lower rear compartment right side. The ground lug may be used to connect to an earth ground. The ground disconnects are used to isolated the AC Ground and Equipment Rack Ground Bar for troubleshooting.



Figure 6: Ground Stud and Disconnect Switches

3.7 Hydraulic Power Unit

This hydraulic power unit for the landing and stabilizing legs is located in compartment D1. This assembly contains the following items;

- The DC pump.
- Emergency Hand Pump & Handle.
- The hydraulic reservoir.
- Directional Control Solenoid Operated Valve Assembly.
- The hydraulic control pendent.
- Digital Levels.



Figure 7: Landing Legs Hydraulic Power Unit

3.8 Interior

The following illustration provides an overview of the interior layout of the broadcast unit.

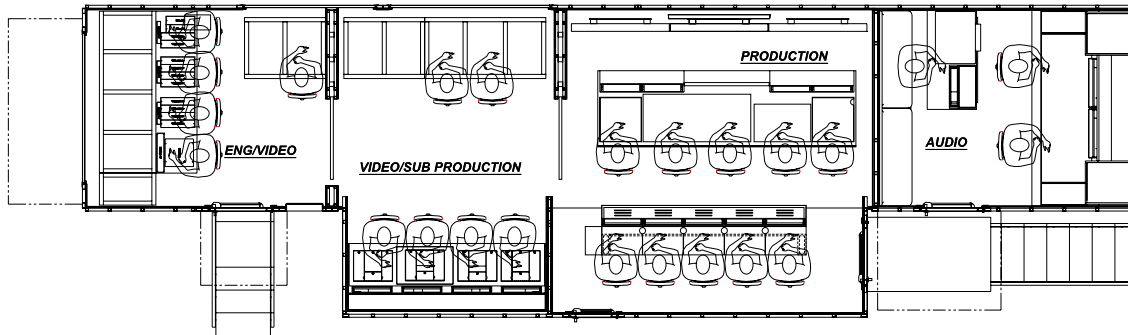


Figure 8: Audio Room, Production Room, Video Production / Engineering Room Layout

3.9 I/O Panel

The I/O Panel provides a means for connecting the input and output signal cables. The I/O Panel is located in the left rear compartment of the Unit.

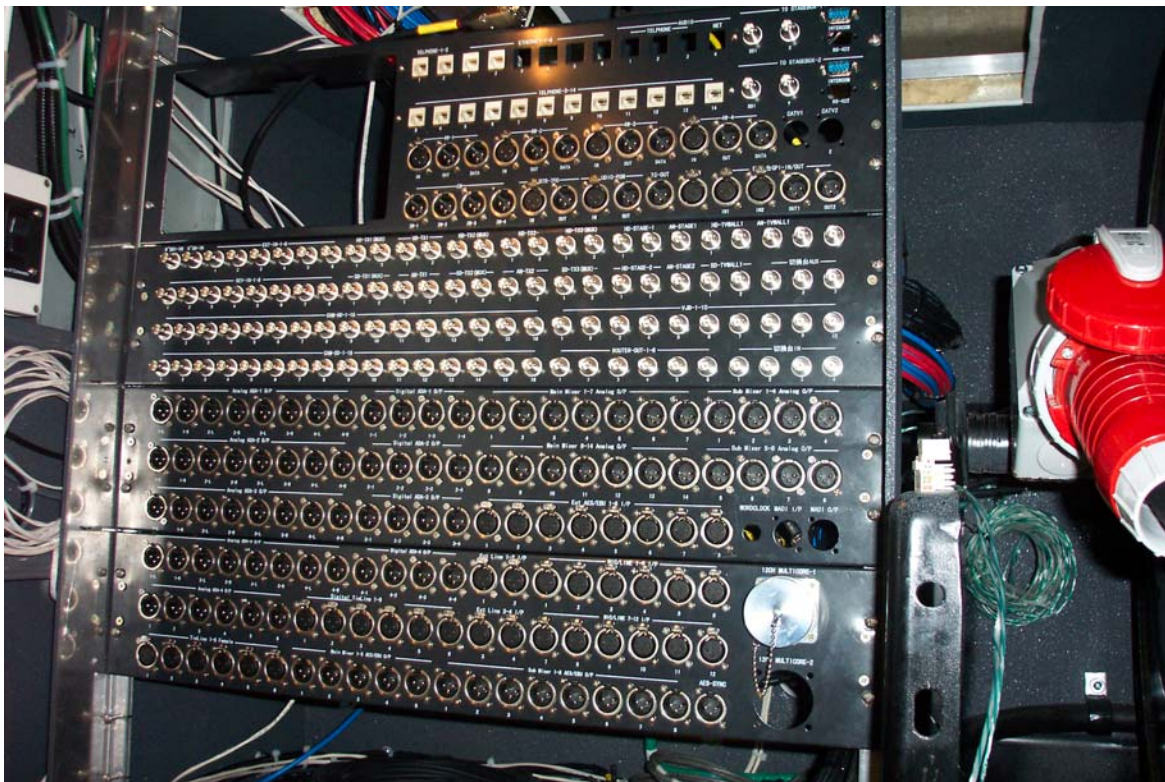


Figure 9: I/O Panel

3.10 Power Cable Reels

The Power Cable Reels are located in the rear lower compartment. The cable on the left side is for Technical Power and the cable on the right side is for Utility Power. The cables are manually deployed and electrically retracted (24V DC).



[Figure 10: Shore Power Cable Reels & Controls](#)

3.11 Power Input Panel

The Power Input Panel provides a means for connecting and monitoring incoming AC Power to the Unit and selecting the correct input power voltage.



Figure 11: Power Input Panel

3.12 Power Regulators (AVRs)

The three Power Conditioner Regulators are located in lower compartment D4. They provide conditioned regulated power to the Technical Power distribution panels.



Figure 12: Power Conditioner Regulators

3.13 Power Disconnect Switches DC

The Power Disconnect switches for the DC circuits are located in lower compartment P1 on the left side of the batteries. These switches provide a means to disconnect the 24 V DC Hydraulic system batteries, the 24V DC System batteries and the 12V DC Trailer batteries.



Figure 13: Power Disconnect Switches DC

3.14 Power Distribution Main Panel

The Power Distribution Main Panel provides the main breakers for the HVAC and Technical Equipment as well as the By-Pass Switches for the regulated power to the Technical Power distribution panels.



Figure 14: Power Distribution Main Panel

3.15 Slide-out Hydraulic Power Unit

This hydraulic power unit is tray mounted and located in compartment D2. This tray contains the following items;

- The DC pump.
- The hydraulic reservoir.
- The hydraulic control pendent.



Figure 15: Slide-out Hydraulic Power Unit

3.16 Stair Assemblies

There are two sets of stairs for the mobile unit. The stair assemblies are stored in the stair pockets provided in the mobile unit. One stair assembly and platform is to be set up at the front of the mobile unit while the other stair assembly is to be setup at the right side rear.



Figure 16: Stair Assemblies

3.17 Uninterruptable Power Supply

The Uninterruptable Power Supply (UPS) for Tech Power provides a reliable back-up power source in the event that incoming AC Power to the Unit is interrupted. The UPS is located in lower compartment D3.



Figure 17: UPS

Section 4: Mobile Unit Setup Procedure



Do not raise or lower the hydraulic stabilizing legs while the stair platforms are in the extended, operational position.



The hydraulic stabilizing legs and rear suspension are not to be used to raise the mobile unit off the ground. The legs are meant only to level the unit and place it in a parked position. If the legs are used in an attempt to raise the mobile unit from the ground, serious damage may occur to the mobile unit.



A checklist can be found in Appendix A that may be used as a guideline for the following procedure.

4.1 Park the Mobile Unit

Park the mobile unit on the most level and firm area available at the site.

4.2 Unlock all Doors

1. Walk around the mobile unit and verify that all of the underbody compartment doors are unlocked.
2. Walk to the rear of the mobile unit and verify that the rear doors are unlocked.
3. Unlock the personnel entry doors.

4.3 Turn ON All DC Power Disconnects

Three (3) DC power disconnect switches should be "ON" at all times except for Maintenance. These switches are located in compartments P1.

Another switch used to parallel the Batteries is located above the batteries on the centerboard partition wall.

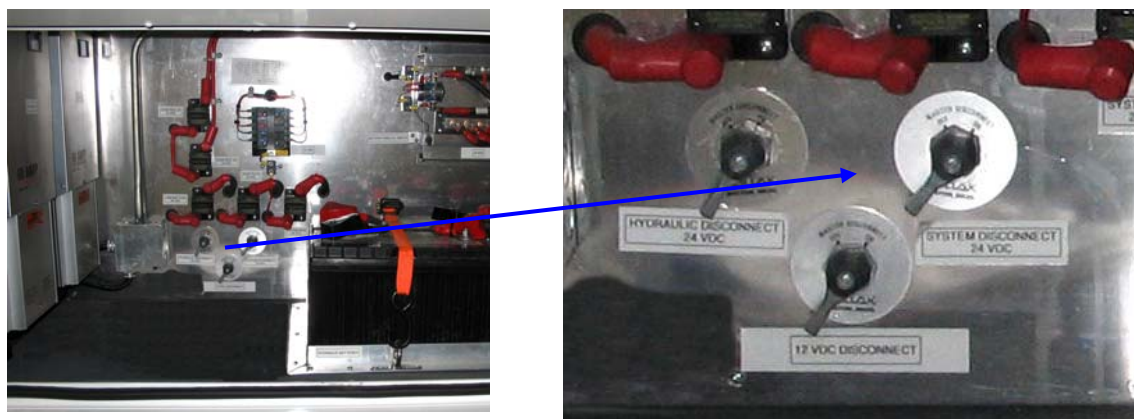


Figure 18: Battery Disconnect

4.4 Remove All Needed Cables and Hydraulic Control Pendant

1. Open the underbody compartments.
2. Remove any needed cables at this time.
3. Connect the cables as necessary (phone lines, data cables, etc.).
4. Place the Landing Legs and Slide-out Hydraulic Control Pendants to the side.

4.5 Connect the Power Supply



Before connecting or disconnecting from shore power, it is imperative that the shore power connections be moved to the “OFF” position. Failure to do this can result in injury or death to the operator of the mobile unit.



Always inspect the power cable, connectors, and fasteners prior to usage. If during inspection, it is suspected that either internal or external damage has occurred, have a certified electrician inspect and repair the damage before using.



When turning the Power switch from one position to another, the selector must be paused for a minimum of five seconds between selections. Failure to do so can result in damage to the equipment.

Shore Power



Before connecting or disconnecting from shore power, it is imperative that the shore power connections be moved to the “OFF” position. Failure to do this can result in injury or death to the operator of the mobile unit.

If shore power is going to be utilized, follow the instructions below to connect to shore power.

1. Verify that the facility shore power disconnect is in the “OFF” position.
2. Determine the voltage that is available from the power supply, (360, 380, 400, or 420V AC).
3. Select the proper input power at the trailer power panel, (360, 380, 400, or 420V AC). See [Figure 11: Power Input Panel](#) .
4. Open the rear compartment door and pull the power cable from the cable reel. See [Figure 10: Shore Power Cable Reels & Controls](#) .
5. Insert the Oshkosh Specialty Vehicles supplied connector into the shore power receptacle. Spin the lock ring clockwise to secure the connection.
6. Connect the internal connector to the junction box on the cable reel. Spin the lock ring clockwise to secure the connection. See [Figure 10: Shore Power Cable Reels & Controls](#) .
7. Move the shore power disconnect to the “ON” position.
8. After the shore power has been connected, move the appropriate Power Switch on the AC Input Panel to the “ON” position. Verify the input power at the meters on the Input Power Panel.
9. Close the rear compartment door.



4.6 Lower the Front Hydraulic Landing Legs

Please follow the steps outlined below.

1. Using the landing legs remote control pendant, raise the front of the unit high enough for the tractor to have adequate clearance to be disconnected and for the fifth wheel of the tractor to pull away from the mobile unit. Ensure that the unit is raised high enough to clear the fifth wheel following steps 3 through 6 below.
2. If required, place load distribution plates under each hydraulic landing leg.
3. Press the "Front Right Down" button for the right side front hydraulic landing leg to be lowered.
4. Lower the leg until it is touching the ground and stabilizing the mobile unit.
5. Press the "Front Left Down" button for the left side front hydraulic landing leg to be lowered.
6. Lower the leg until it is touching the ground and stabilizing the mobile unit.

4.7 Disconnect the Air and Electrical Lines

After the front hydraulic landing legs have been lowered, the air and electrical lines can now be disconnected.

1. Disconnect the airlines from the tractor to the mobile unit.
2. Disconnect the electrical cables from the tractor to the mobile unit.

4.8 Lower the Rear Hydraulic Stabilizing Legs

The rear hydraulic stabilizing legs can now be lowered into their operating positions. Please follow the instructions below.

1. If required, place load distribution plates under each hydraulic stabilizing leg.
2. Press the "Right Rear Down" button for the right side rear hydraulic stabilizing leg to be lowered.
3. Lower the leg until it is touching the ground and stabilizing the mobile unit.
4. Press the "Left Rear Down" button for the left side rear hydraulic stabilizing leg to be lowered.
5. Lower the leg until it is touching the ground and stabilizing the mobile unit.

4.9 Disconnect the Tractor From the Mobile Unit

The tractor can now be uncoupled from the mobile unit. Please follow the steps outlined below.

1. Check for fifth wheel clearance.
2. Slowly pull the tractor away from the mobile unit.

4.10 Level the Mobile Unit



When leveling the mobile unit, only use the front hydraulic stabilizing legs for the front side-to-side leveling.



Do not use the front hydraulic stabilizing legs when attempting to make the mobile unit level from front to rear. Use the rear hydraulic stabilizing legs only.

Three (3) Digital levels have been provided for use in leveling the mobile unit.

1. Check the readings on the three (3) Digital levels.
2. Using the Hydraulic Control Pendant, move each hydraulic stabilizing leg, as necessary, to level the unit.
3. As the legs are adjusted, continue to check all three (3) Digital levels to ensure that the mobile unit is level prior to use.

4.11 Lower the Auxiliary Support Legs into Position

The auxiliary support legs can now be lowered into position. Please follow the instructions below for each of the four auxiliary support legs.

1. Remove the pin that is holding the auxiliary support leg in place.
2. Lower the auxiliary support leg to within ½" of the sand shoe and insert the pin into the highest available hole to lock the leg in position.

4.12 Extend the Slide-outs

After all of the previous steps have been completed, the slide outs can now be extended. Follow the steps outlined below.

1. Obtain the hydraulic control pendant from the underbody compartment (D2) on the right side of the mobile unit.
2. Plug the pendant into the receptacle on the right side rear between the rear of the trailer and to the left and below the rear entry door. See [Figure 19: Slide-out Pendant Receptacle](#) below.
3. Extend the slide-out by press the “Extend” button on the slide-out pendant.
4. While the slide out is extending, watch and listen for any unusual noises that may signify something being in the way or not in the proper position. If any noise is detected, stop extending immediately and investigate before going any further.
5. When the slide out is extended, release the “Extend” button on the hydraulic remote control pendant.



Figure 19: Slide-out Pendant Receptacle

4.13 Deploy the Stair Assemblies

The stair assemblies can now be deployed. The stairs should be deployed by two persons. Follow the instructions listed below. Refer to [Figure 16: Stair Assemblies](#) for the following procedures.

Front Stair Assembly

1. Remove the locking pin that holds the front stair platform and stair assembly in place for transport. Place the Pin in the clips provided for storage. See [Figure 20: Stair Assembly Locking Pin](#) below.



Figure 20: Stair Assembly Locking Pin

2. Pull out the platform from the forward end of the slide-out.
3. While one person holds the platform in place the other person should insert the support legs for the platform. Refer to [Figure 16: Stair Assemblies](#).
4. Adjust the legs on the support legs in order to ensure that the platform is both level and secure.
5. Pull the front stair assembly from the channel located on the platform and lower the stair to the ground.
6. Insert the handrails for the stair assembly. Secure the handrails with the hardware provided.

Rear Stair Assembly

1. Open the stair storage compartment under the left side rear door.
2. Pull the stair assembly out of the compartment and lower it to the ground.

4.14 Prepare External I/O Station Connections

The external I/O station is located in the rear compartment. All lines and cables can now be attached as needed.

4.15 Extend the Awnings for Use.

The awnings are electrically operated and controlled by a switch next to the entry doors for the awnings over the doors. The rear awning control is in the lower rear compartment left side. See [Figure 3: Awning Control Panels](#) .

4.16 Prepare Interior for Operation

1. Before operating the mobile unit, the interior must be prepared. Please refer to the steps below.
2. Move the chairs to their operating positions.
3. Move the sliding console in the Production Room to its operating position.
4. Locate the light switch controls on the interior of the mobile unit, next to the door.
5. Turn "ON" the desired light combination.
6. Locate the thermostats and adjust them to the desired temperature.

Section 5: Mobile Unit Transport Procedure



The hydraulic stabilizing legs and rear suspension are not to be used to raise the mobile unit off the ground. The legs are meant only to level the unit and place it in a parked position. If the legs are used in an attempt to raise the mobile unit from the ground, serious damage may occur to the mobile unit.



A checklist can be found in Appendix A that may be used as a guideline for the following procedure.

5.1 Prepare Interior for Transport

Before transporting the mobile unit, the interior must be prepared. Please refer to the steps below.

1. Slide the Production console towards the left wall and lock it in place with the Destaco Clamps at each end ensuring that the micro-switches are actuated.
2. Secure all chairs and loose equipment in the interior.
3. Ensure that all Monitors and counter mounted equipment is secure.
4. Lock all cabinets and secure all doors for transport.
5. Ensure that the Entry door in the slide-out is fully closed and locked.

5.2 Retract the Awnings for Transport.

The awnings are electrically operated and controlled by a switch next to the entry doors for the awnings over the doors. The rear awning control is in the lower rear compartment left side. See [Figure 3: Awning Control Panels](#) .

5.3 Prepare the External I/O Panel

The external I/O Panel is located in the rear compartment. All lines and cables must be disconnected from the I/O Panel at this time. Stow all cables as required. See [Figure 9: I/O Panel](#) for reference.

5.4 Disconnect the External Power Receptacles

If the external power receptacles, located in the rear compartment were used, all cables must be disconnected from the panel at this time.



5.5 Stow the Stair and Platform Assemblies

Before the slide-out is retracted, the front stair and platform assembly must be stowed. Two people are required to disassemble the stair assemblies. Follow the instructions listed below.

Front Stair Assembly

1. Remove the hardware that is being used to hold the handrails in place.
2. Remove the handrails from the front stair assembly and place them on the ground.
3. Lift the stair assembly and slide it into the platform.
4. One person should hold the platform in the horizontal position while the other person removes the platform support legs and temporarily places them on the ground.
5. Slide the platform and stair assembly into the compartment in the slide-out then pin in place. See [Figure 20: Stair Assembly Locking Pin](#).
6. Place the handrails into the D2 lower compartment for transport storage.

Rear Stair Assembly

1. Lift the stairs up and slide them into the compartment under the left rear entry door.
2. Close the compartment door and latch it.

5.6 Retract the Slide-out



The placement of all items within the mobile unit allots for a very tight fit when the slide-out is retracted. If the items within this room are not properly placed in their transport position, damage can occur to the mobile unit and the items within. Check placement of all items prior to retracting the slide-out.

- Before retracting the slide-outs, check the following;
- Have all thermostats been turned to the “OFF” position?
- Have all phones been stored?
- Have all chairs been moved into transport position and secured?
- Have all loose items been stowed?
- Have all light switches been moved to the “OFF” position?

After all of the previous steps have been completed, the slide out can be retracted. Follow the steps outlined below:

NOTE: The Production Console, Slide-out Entry Door, and Front Stair and Platform Assembly are electrically interlocked with the Retract function of the slide-out. If the slide-out fails to retract, first check that these items are properly secured as previously stated in this section.

1. Obtain the hydraulic control pendant from the underbody compartment (D2) on the right side of the mobile unit.
2. Plug the pendant into the receptacle on the right side rear between the rear of the trailer and to the left and below the rear entry door. See **Error! Reference source not found.**
3. Retract the slide-out by pressing the “Retract” button on the slide-out pendant.
4. While the slide out is retracting, watch and listen for any unusual noises that may signify something being in the way or not in the proper position. If any noise is detected, stop retracting immediately and investigate before going any further.
5. When the slide out is retracted, release the “Retract” button on the hydraulic remote control pendant.
6. Unplug the remote control pendant and stow it in lower compartment D2.

5.7 Disconnect from Shore Power



Before connecting or disconnecting from shore power, it is imperative that the shore power disconnects be moved to the “OFF” position. Failure to do this can result in injury or death to the operator of the mobile unit.

1. Move each of the shore power disconnects to the “OFF” position.
2. Remove the power cable plugs from the shore receptacles and the trailer cable reel junction box receptacles.
3. Retract the power cables and rewind them onto the reels by using the reel power control or the remote foot operated switch.
4. Close and lock the rear compartment door.



5.8 Exterior Preparation

After the interior of the mobile unit has been closed, the exterior can be checked.

1. Walk around the mobile unit and verify that no electrical lines remain plugged into the available outlets on the mobile unit.
2. Verify that all protective flaps for the outlets and switches are closed.
3. If it has been decided to lock the protective flaps, please do so at this time.

5.9 Return Auxiliary Support Legs to Transport Positions

The auxiliary support legs can now be returned to the transport positions. Please follow the instructions below for each of the four legs.

1. Remove the pins that are holding the auxiliary support legs in place.
2. Lift the legs to their highest position possible.
3. Insert the pins in the lowest hole possible to hold each leg in the transport position.

5.10 Raise the Rear Hydraulic Stabilizing Legs

The rear hydraulic stabilizing legs can now be returned to their transport positions. Please follow the instructions below.

1. Using the Landing/Stabilizing Leg Remote Control Pendant, press the "Right Rear Retract" and the "Left Rear Retract" buttons to retract both the right side and left side rear hydraulic stabilizing legs.
2. Completely raise the hydraulic stabilizing legs.
3. Release both buttons.

5.11 Extend the Front Hydraulic Landing Legs

The front of the mobile unit must now be raised so that the tractor has adequate clearance. Please follow the steps outlined below.

1. Press the "Right Front Extend" and the "Left Front Extend" buttons to extend both the right side and left side front hydraulic landing legs.
2. Extend the hydraulic landing legs in order to provide clearance for the fifth wheel of the tractor.
3. Release both buttons.
4. Check to be certain that the fifth wheel of tractor has adequate clearance for backing under the mobile unit.



5.12 Connect the Tractor to the Mobile Unit

The tractor can now be coupled to the mobile unit. Please follow the steps outlined below.

1. Check for fifth wheel clearance.
2. Backup the tractor underneath the mobile unit.
3. Align the fifth wheel.
4. Lower the mobile unit onto the tractor fifth wheel.
5. Press the “Right Front Retract” button to retract the right side front hydraulic landing leg.
6. Press the “Left Front Retract” button to retract the left side front hydraulic landing leg.
7. As the mobile unit is lowered into place on the fifth wheel of the tractor, be certain to continually check for alignment of the fifth wheel.
8. Continue to lower the unit until the pin is locked in place on the fifth wheel.
9. Press the “Right Front Retract” button for the right side front hydraulic landing leg and fully retract.
10. Press the “Left Front Retract” button for the left side front hydraulic landing leg and fully retract.

5.13 Connect the Air and Electrical Lines

Now that the tractor has been coupled with the mobile unit, the air and electrical lines can be connected

1. Connect the airlines from the tractor to the mobile unit.
2. Connect the electrical cables from the tractor to the mobile unit.

5.14 Stow All Cables and Control Pendant

1. Walk around the mobile unit and verify that all cables have been disconnected from the mobile unit.
2. Coil and stow all cables in the underbody compartments.
3. Coil and store the hydraulic control pendant in the underbody compartment.

5.15 Underbody Compartment Lighting

All underbody compartment lighting switches are on individual timers and will automatically turn off the lights.

5.16 Close and Lock all Doors

1. Walk around the mobile unit and verify that all of the underbody compartment doors are closed and locked.
2. Walk to the rear of the mobile unit and verify that the rear doors are closed and locked.
3. Check the personnel entry doors. Make certain that the doors are closed and locked.

5.17 Verify that the Mobile Unit is Ready for Transport



Do not move the mobile unit while any of the warning lights are illuminated.

Before the mobile unit can be transported, a final check of all components is necessary. Please refer to the following when checking the mobile unit.

- Are all exterior doors closed and locked? If not, make sure that all exterior doors are closed and locked.
- Is the hydraulic slide-out fully retracted? If not, retract the slide-out.
- Are all running & marker lights working correctly? If not, replace any bulb that is not working before transporting the mobile unit.
- Are any warning lights illuminated? If so, check to find the cause of the warning. Do not move the mobile unit if any warning lights are illuminated.

If further assistance is needed, refer to the Oshkosh Specialty Vehicles General Information binder for a list of local service representatives or call Oshkosh Specialty Vehicles for further assistance

Section 6: Electrical System



Electrical, mechanical, and pneumatic safety devices have been installed on this vehicle to help protect against personal injury and / or damage to equipment. Under no circumstances should any attempt be made to disconnect or in any way render any of these devices inoperative. If a malfunction of any safety device is discovered to exist, **DO NOT** operate the vehicle, but immediately notify appropriate maintenance personnel.



Use and follow the appropriate Lockout/Tagout procedures as required by OSHA Standard 1910.147 when performing maintenance or servicing any electrical, hydraulic or pneumatic systems. See Appendix E for Lockout/Tagout procedures.



Before connecting or disconnecting from shore power, it is imperative that the shore power disconnects be moved to the "OFF" position. Failure to do this can result in injury or death to the operator of the mobile unit.



It is the operator's responsibility to verify that the shore power receptacle is of the same type and voltage as the connection that is supplied by Oshkosh Specialty Vehicles. Failure to do this can result in injury or death to the operator of the mobile unit as well as irreparable damage to the mobile unit.

The entire electrical system is installed in conformance with the National Electric Code.

The system is completely installed in the factory. Service access is gained through the underbody compartments of the mobile unit with thin wall conduit and/or wire-mold sized to accept the required service entrance conductors used throughout the mobile unit.

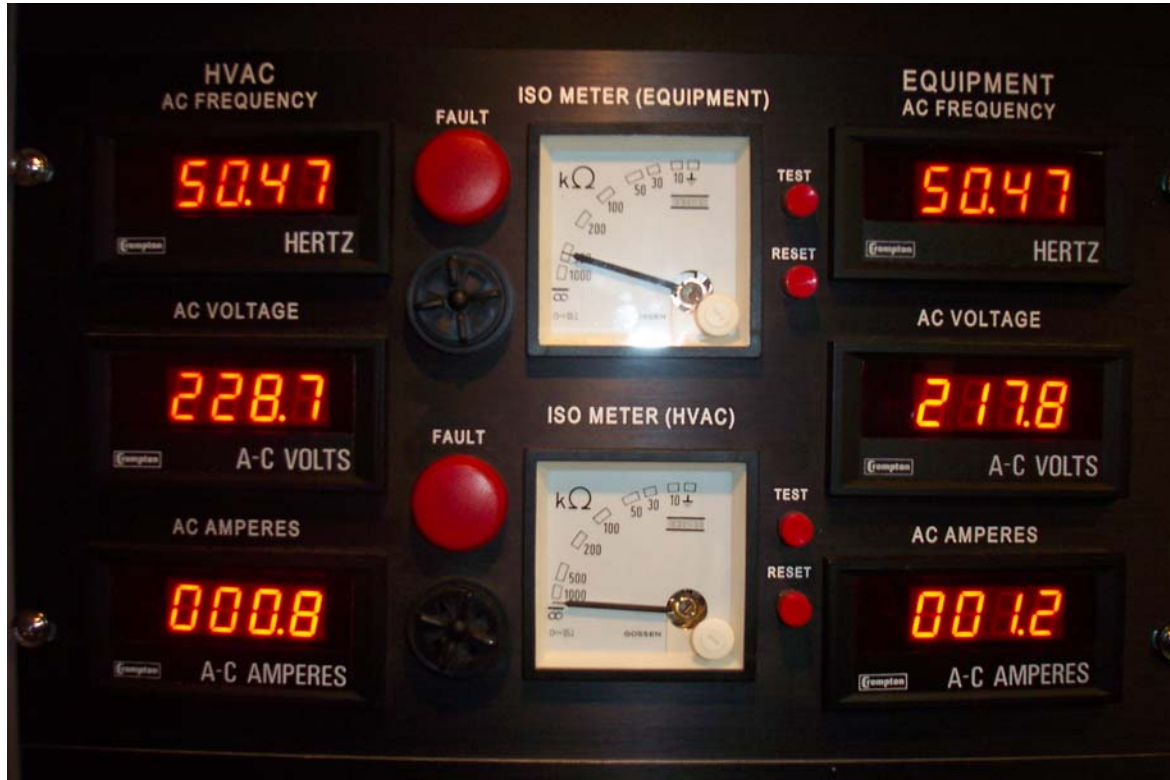
All required tags, labels and rating nameplates are permanently installed in their proper locations before the mobile unit leaves the factory.

6.1 AC Power Input Panel

There is one AC power input panel aboard the mobile unit located in the lower rear compartment. The AC power input panel provides the means to select the appropriate input power voltage and monitor phase rotation and voltage. It also provides control breakers for input power to the trailer HVAC (Utility) Power and Technical Power. See [Figure 11: Power Input Panel](#).

6.2 Internal AC Power Electrical Panel

The Internal AC Electrical Panel provides a means to monitor the frequency, voltage, and current of all HVAC and Tech input power to the unit.



[Figure 21: Internal AC Power Electrical Panel](#)

6.3 Shore Power Connection



Before connecting or disconnecting from shore power, it is imperative that the shore power disconnects be moved to the “OFF” position. Failure to do this can result in injury or death to the operator of the mobile unit.



It is the operators' responsibility to verify that the shore power receptacle is of the same type and voltage as the connection that is supplied by Oshkosh Specialty Vehicles. Failure to do this can result in injury or death to the operator of the mobile unit as well as irreparable damage to the mobile unit.

Although the shore power connection is not an actual physical feature of the mobile unit, it is an integral part of the daily operations. The following items are associated with the shore power connection.

Connector Plug Type

The mobile unit IEC-60309 power connectors are located in the rear lower compartments. One cable provides Technical Power and the other cable connects Utility Power for the HVAC System. Both cables are mounted on cable reels for ease in handling.

There are two additional cables provided with the mating IEC-60309 receptacle at one end with bare wires at the other end. These are provided in order for the unit to be hard wired into a power source when an IEC-60309 shore power receptacle is not available.



Figure 22: Shore Power Plug & Receptacle



Oshkosh Specialty Vehicles Connector:	The plug that is provided by Oshkosh Specialty Vehicles for connection to the shore power receptacle.
Connector Lock Ring:	Secures the connections between the power cable and the shore power receptacle.
Connector Protective Rubber Collar:	Helps to protect the connector from damage.
Power Cable:	The cable that runs between the shore power connections and the AC electrical panel.
Shore Power Disconnect:	The disconnect switch terminates the power to the receptacle. This must be in the "OFF" position when connecting to the receptacle.
Shore Power Receptacle Outlet:	The receptacle outlet that the shore facility has installed for use with the Oshkosh Specialty Vehicles connector and power cable.



Section 7: HVAC System



The HVAC system is critical to the operation and life of the broadcast system. The broadcast system operates within strict specifications regarding temperature and humidity. All aspects of the HVAC system such as damper settings, venting, component set points, and sensor placement are adjusted for optimum operation. Under no circumstances should these settings be altered.

For additional information, please refer to the OEM manual located inside of the Oshkosh Specialty Vehicles three ring binder labeled Vendor Information.

7.1 Description

The mobile unit utilizes two (2) separate twin compressor refrigerant A/C units and eight (8) chilled water fan coil units. The HVAC system is designed specifically to maintain only the internal environment of the mobile unit. The HVAC system is not designed to handle areas outside of the mobile unit, such as adjoining corridors or hallways. It is important to be sure that the doors, partitions, and damper settings are in the intended positions before running the system. Do not attempt to store boxes or any other items in the mobile unit as this will disrupt the intended airflow.

7.2 System Specifications

The air conditioning and heating systems utilize forced air with electricity as the source of power. The entire system is designed and installed in full conformance with all applicable codes. The system is completely installed at the factory.

Heat producing appliances must be installed in accordance with the terms of their listing. Air ducts are constructed of approved materials in conformance with all applicable codes. Air conditioning and heating registers are installed in accordance with the approved plans. Return air is provided as required and is in full conformance with all applicable codes.

Warning and identification labels as required are installed at the factory.

7.3 System Capacities

Two (2) separate and individually controlled A/C units provide the primary heat exchange for the chilled water system. Eight (8) fan coil units provide the air conditioning of the mobile unit. The capacities of the system are as follows.

Total air conditioning capacity provided by the system is 240,000 BTUH.

Total heat capacity provided by the system is 24 KW.

Each of the fan coil units can provide 1000 CFM of air flow with a maximum total of up to 8000 CFM.

7.4 Temperature Adjustment

For the eight main Fan Coil Units, the temperature is controlled using Thermostats. Two Fan Coils units feed conditioned air and heat, when called for to each room. To change the temperature, simply set the dial to the desired temperature value. These four (4) Thermostats, one for each room, are conveniently wall mounted as shown in [Figure 23: Thermostats](#) below.



Figure 23: Thermostats

The dial is graduated in degrees Fahrenheit. See table below for conversion to Celsius.

°F	°C
80	27
75	24
70	21
65	18
60	16

Figure 24: Temperature Conversion Chart

Section 8: Hydraulic Stabilizing Legs



Under no circumstances should the hydraulic stabilizing legs be used to lift the mobile unit from the ground. If any attempt is made to raise the unit from the ground using the only the hydraulic stabilizing legs, serious damage can occur to the suspension system of the mobile unit.



The auxiliary support legs must be returned to the transport position prior to raising the hydraulic stabilizing legs. Failure to unpin the auxiliary support legs and return them to their transport position could result in serious damage to the mobile unit.

The hydraulic stabilizing legs installed on this mobile unit are only for the purpose of parking and stabilizing the mobile unit. If any attempt is made to raise the unit entirely off the ground using only the stabilizing legs, serious damage can occur to the stabilizing legs as well as the mobile unit itself. Under no circumstances should the stabilizing legs be used to raise the unit from the ground. For additional information, please refer to the OEM manual located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

When parking the mobile unit the following issues must be kept in mind at all times;

1. The unit must be made as level as possible.
2. Do not twist or torque the mobile unit.
3. Do not overextend the landing legs. (Do not attempt to lift the mobile unit off of the ground).

8.1 Levels

The mobile unit must be as level as possible prior to use. In order for this to be accomplished, three (3) spirit levels have been attached to the mobile unit. The levels will provide the operator with the following;

Front (side to side)

Rear (side to side)

Front to Rear

Digital Levels located in lower compartment D1. The digital levels provide a more accurate reading for leveling the unit.



Figure 25: Levels

8.2 Hydraulic Stabilizing Leg Assembly (front and rear)

There are four hydraulic stabilizing leg assemblies for the mobile unit. One pair is located in the front of the mobile unit, and the other is located in the rear of the mobile unit. All assemblies are controlled via the hydraulic control pendent.

Also located at each of the legs is an additional auxiliary support leg. When the mobile unit has been parked, and the hydraulic stabilizing legs have been deployed, the auxiliary support legs must be dropped for additional support in case of hydraulic failure. Each auxiliary support leg is secured with a pin and must be manually set. The description of the landing leg assemblies can be found below.

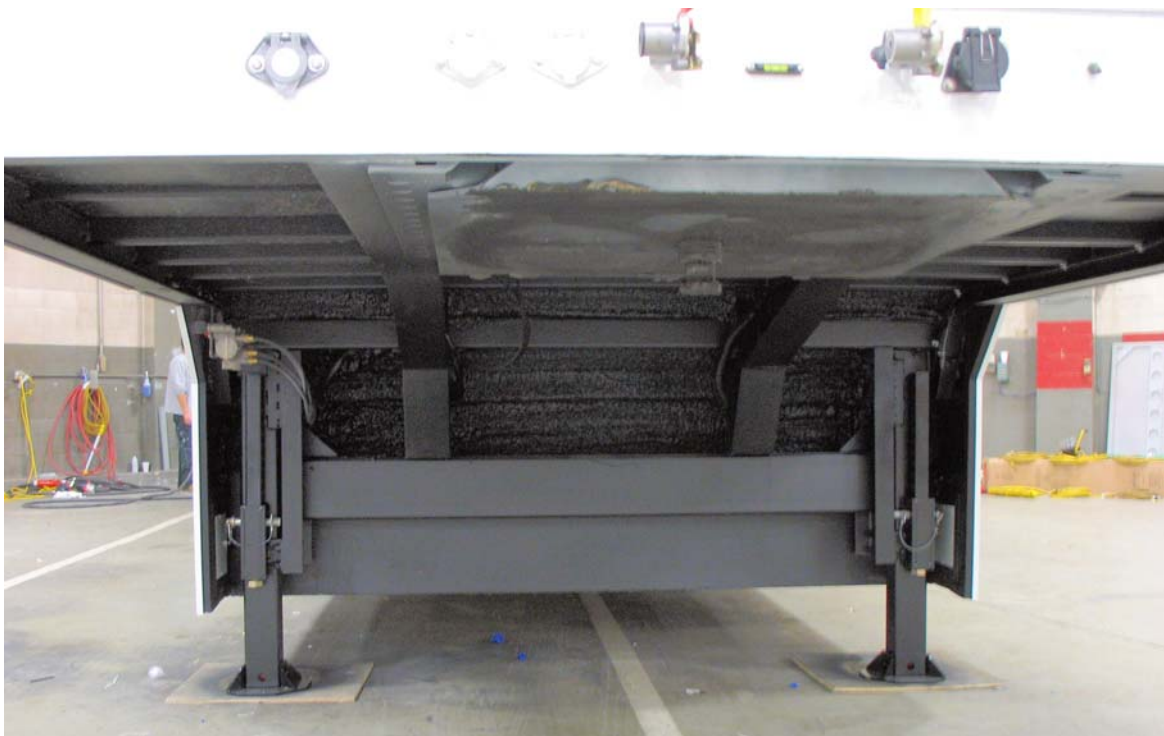


Figure 26: Front Landing and Hydraulic Stabilizing Legs

Hydraulic stabilizing leg: The support that allows the mobile unit to be parked and leveled without the tractor being attached to the unit.

Levels: Allows three (3) different readings to be taken in order to ensure that the mobile unit is level.



Figure 27: Rear Stabilizing and Auxiliary Support Leg & Pin

- Auxiliary support legs: The auxiliary support legs provide a fixed leg for use as a backup in case the hydraulic stabilizing legs fail.
- Sand Shoe: Helps prevent the hydraulic stabilizing legs from sinking due to the weight of the mobile unit.



Section 9: Lighting System

9.1 Compartment Lighting

Setting the timer switches located in each compartment activates the underbody compartment lights.

9.2 Exterior Lighting

Exterior lighting for the mobile unit is provided by via five (5) floodlights. The floodlights are powered by 220V AC. The locations are as follows.

Two (2) floodlights are on the left side of the mobile unit.

Two (2) floodlights are on the right side of the mobile unit.

One (1) floodlight on the rear of the mobile unit.

Wiring has been installed at the front top of the unit for future installation of an outlet or light.

9.3 Interior Lighting

All interior lighting has been strategically placed to provide optimum lighting for all locations. Light switches are located at each entry of the mobile unit as well as on the walls by each room entrance / exit. Lighting is provided via halogen lights, and fluorescent lights.

All interior lighting is DC Powered. In the event that shore power is interrupted interior lighting will remain illuminated, powered from the system batteries.

9.4 Marker and Running Lights

When the mobile unit is in transit, China law requires specific illumination characteristics. The mobile unit meets and exceeds these standards.

All lights are 24V DC, and are powered by the tractor. All wiring is run through the underbody wire harnesses. The top marker lights are wired through a 0.5" (1.27cm) loom pipe that is run through the sidewalls of the mobile unit. The wires terminate at the glad-hands which are located in the front of the mobile unit for tractor hookup.



Section 10: General Maintenance



Use and follow the appropriate Lockout/Tagout procedures as required by OSHA Standard 1910.147 when performing maintenance or servicing any electrical, hydraulic or pneumatic systems. See Appendix B for Lockout/Tagout procedures.



Make sure that all electrical parts are serviced only by a certified electrician or qualified personnel. Dangerous voltages are present which could result in injury or death.



Always make sure that eyes are protected while servicing the unit. Wear safety goggles when prying, drilling, grinding, or working with batteries. Wear safety goggles over regular prescription glasses unless the lenses are made of hardened glass and can serve as safety goggles.



Be certain to disconnect the power before working on any of the electrical systems.



When servicing the unit be certain that a first aid kit and fire extinguisher are within reach at all times.

10.1 Daily Maintenance

For additional information, please refer to the various system OEM manuals located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

1. Keep the air intake grills free and clear of obstructions.
2. Keep the A/C grills clean and free of debris.
3. Check and verify that no warning lights are illuminated.



10.2 Weekly Maintenance

For additional information, please refer to the various system OEM manuals located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

1. Check the A/C filters. Clean and replace if necessary.
2. Check the oil and water levels in the generator and refill if necessary.
3. Check the electrolyte levels in the DC batteries and fill if necessary using only distilled water.
4. Check all running lights, marker lights, brake lights, and turn signals.
5. Check each tire for signs wear or damage.
6. Check tire pressure (while cold) and verify that all wheels are at 115 psi (7.93 bar).
7. Walk around the mobile unit and check for loose nuts and screws, and tighten or replace as necessary.
8. Check the air intake filters. Clean and replace if necessary.

10.3 Monthly Maintenance

For additional information, please refer to the various system OEM manuals located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

1. Visually inspect the suspension air bags, shocks, and airlines for any abrasion, wear, or cracking and replace as necessary.
2. Put a few drops of 20W oil, or similar graphite oil, on the swivel pin of all door hinges. For key openings of all door locks use dry graphite only.
3. Inspect the power cables for any damage.
4. Check the cable tie downs.
5. Check for cut, damaged, or loose wire connections.
6. Check and verify that all connector bolts are tight and secure.
7. A qualified A/C technician must clean the A/C condensers every two months.
8. Lubricate the front and rear hydraulic stabilizing legs.
9. Check wheel lug nuts with torque wrench and verify that all inner and outer wheels, both the front and rear, are tightened to 450-500 foot pounds (610 – 678 Nm). This must be done after every 500 miles (804.67 km) of driving. In accordance with torque procedure, lugs and nuts must be installed dry. Do not use any type of lubricant.

Refer to the manual supplied by the generator OEM for a preventative maintenance schedule.

10.4 Quarterly Maintenance

For additional information, please refer to the various system OEM manuals located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

1. Once a year, check the fuel separator for contamination or debris.
2. Once every six (6) months, perform the preventative maintenance on the landing legs and the landing leg controls. Refer to the accompanying manual for the landing gear system.
3. Rotate the tires.
4. Check wheel lug nuts with torque wrench and verify that all inner and outer wheels, both the front and rear, are tightened to 450-500 foot pounds (610 – 678 Nm). This must be done after every 500 miles (804.67 km) of driving. In accordance with torque procedure, lugs and nuts must be installed dry. Do not use any type of lubricant.



Section 11: Specific Maintenance



Use and follow the appropriate Lockout/Tagout procedures as required by OSHA Standard 1910.147 when performing maintenance or servicing any electrical, hydraulic or pneumatic systems. See Appendix B for Lockout/Tagout procedures.



Make sure that all electrical parts are serviced only by a certified electrician or qualified personnel. Dangerous voltages are present which could result in injury or death.



Always make sure that eyes are protected while servicing the unit. Wear safety goggles when prying, drilling, grinding, or working with batteries. Wear safety goggles over regular prescription glasses unless the lenses are made of hardened glass and can serve as safety goggles.



Be certain to disconnect the power before working on any of the electrical systems.



A power washer should never be used to clean the A/C units. Serious damage to the A/C coils may occur.



When servicing the unit be certain that a first aid kit and fire extinguisher are within reach at all times.

11.1 Door Closer Adjustments

The door closers must be adjusted so that the doors do not slam shut. Adjust door closers as required to insure proper non-slamming door action. For additional information, please refer to the OEM manual located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

11.2 Electrical System

1. Inspect the power cables for any damage.
2. Check the cable tie downs.
3. Check for cut, damaged, or loose wire connections.
4. Check and verify that all connector bolts are tight and secure.



11.3 HVAC System

For additional information, please refer to the OEM manual located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.

1. The HVAC system is designed specifically to maintain only the internal environment of the mobile unit. The HVAC system is not designed to handle areas outside of the mobile unit such as adjoining corridors or hallways.
2. A/C condensers must be cleaned every two months by a certified A/C technician.

11.4 Hydraulic Stabilizing Legs

1. Once a year, perform the preventative maintenance on the landing legs. For additional information, please refer to the OEM manual located inside of the Oshkosh Specialty Vehicles three ring binder labeled Component Literature.
2. Change the oil in the hydraulic stabilizing leg control box and refill with up to five (5) gallons (19 liters) of PG-AWF or other approved fluid to port level.
3. Add one (1) pint of permanent anti-freeze as necessary.
4. Extend the landing legs and coat lightly with clean grease.
5. Grease the alemite fittings and check the valve on each leg. Use "NGLI" lithium grease with a grade of "00" or "0".
6. Check the fittings and the hydraulic lines for leaks or worn spots. Replace all defective fittings and lines as necessary.
7. Check for loose bolts and nuts. Tighten as necessary.

11.5 Hydraulic System

The hydraulic oil filter must be changed once a year.

Appendix A: Mobile Unit Checklist



It is the operator's responsibility to verify that the shore power receptacle is of the same type and voltage as the connection that is supplied by Oshkosh Specialty Vehicles. Failure to do this can result in injury or death to the operator of the mobile unit as well as irreparable damage to the mobile unit.



Before connecting or disconnecting from shore power, it is imperative that the shore power connections be moved to the "OFF" position. Failure to do this can result in injury or death to the operator of the mobile unit.



Make sure that all electrical parts are serviced only by a certified electrician or qualified personnel. Dangerous voltages are present which could result in injury or death.



Always make sure that eyes are protected while servicing the unit. Wear safety goggles when prying, drilling, grinding, or working with batteries. Wear safety goggles over regular prescription glasses unless the lenses are made of hardened glass and can serve as safety goggles.



Be certain to disconnect the power before working on any of the electrical systems.



When checking for clearance it is imperative that no personnel stand in between the slide out partition walls as they are being closed. Injury or death can occur as a result.



The placement of all items within the mobile unit allots for a very tight fit when the slide outs are retracted. If the items within this room are not properly placed in their transport position, damage can occur to the mobile unit and the items within. Check placement of all items prior to retracting the slide outs.



Always inspect the power cable, connectors, and fasteners prior to usage. If during inspection, it is suspected that either internal or external damage has occurred, have a certified electrician inspect and repair the damage before using.



When turning the ON / OFF switch from one position to another, the selector must be paused for a minimum of five seconds between selections. Failure to do so can result in damage to the equipment.



The hydraulic stabilizing legs and rear suspension are not to be used to raise the mobile unit off the ground. The legs are meant only to level the unit and place it in a parked position. If the legs are used in an attempt to raise the mobile unit from the ground, serious damage may occur to the mobile unit.



Failure to completely exhaust the suspension before uncoupling the airlines may result in damage to the suspension of the mobile unit.



Before transporting the mobile unit, check to verify all warning lights as well as all exterior marker lights are working correctly.



When servicing the unit be certain that a first aid kit and fire extinguisher are within reach at all times.



Mobile Unit Setup Checklist

1. Park the mobile unit on the most level and firm area available at the site.
2. Unlock all doors.
3. Turn all DC power disconnects to the "ON" position. The disconnect switches are located in the underbody compartments (P1).
4. Turn DC underbody compartment lighting to the "ON" position, if required. The switches are located in the underbody compartments.
5. Remove all needed cables and Hydraulic Control Pendant from the underbody compartment (D1).
6. Connect the power supply.
7. Verify that the "ON/OFF" Switch is in the "OFF" Position.
8. Be certain that the disconnect switch at the power supply is in the "OFF" position prior to connecting the receptacle. Connect the receptacle to the shore power supply and move the disconnect switch to the "ON" position.
9. Select the correct input voltage and move the "ON/OFF" switch to the "ON" position.
10. At the front of the unit, lower the hydraulic stabilizing legs. Be certain to lift the mobile unit high enough to clear the fifth wheel of the tractor.
11. Disconnect the air and electrical lines from the glad hands on the mobile unit.
12. At the rear of the unit, lower the hydraulic stabilizing legs.
13. Disconnect the tractor from the mobile unit.
14. Using the three (3) digital levels, level the mobile unit.

IMPORTANT

Unit must be level prior to extending the slide-outs or damage may occur to the mobile unit.

15. Lower the auxiliary support legs into the operating position and pin into place.
16. Enter the mobile unit and check to verify that all items are in the proper transport position prior to expanding the slide-out.
17. Extend the right side slide-out.
18. Deploy the stair assemblies for both the front and rear doors.
19. Prepare the external I/O station for connections.
20. Prepare the interior for operation. Place partitions into their operating positions, slide Production console and chairs into position

Mobile Unit Transport Checklist

1. Prepare the interior for transport.
2. Disconnect all external I/O connections.
3. Verify that all items are in their transport positions and secure.
4. Disassemble the platform and stair assemblies and stow them. Stow the platform in the platform slot in the bottom of the right slide-out.
5. Retract the right side slide-out.
6. Prepare the exterior for transport.
7. Return the auxiliary support legs to their transport positions.
8. Raise the rear hydraulic stabilizing legs.
9. Extend the front hydraulic stabilizing legs in order to clear the fifth wheel of the tractor.
10. Connect the tractor to the mobile unit and attach the air and electrical lines.
11. Raise the front hydraulic stabilizing legs.
12. Disconnect the power supply.
13. Move the "ON / OFF" selector switch to the "OFF" position.
14. For shore power, when disconnecting the receptacle from the shore power connections make certain that the power disconnect is in the "OFF" position.
15. Stow all cables and the hydraulic control pendant.
16. On the DC Panel, turn the hydraulic pump power selector to the "OFF" position (P1).
17. Turn off both (2) DC power disconnects (P1).
18. Verify that all items have been stowed and that all doors have been closed and locked.
19. Verify that the mobile unit is ready for transport.
20. Are all exterior doors closed and locked?
21. Are the slide-outs fully retracted?
22. Is the slide-out retaining strap locked in place?
23. Are the marker and running lights functioning properly?
24. Are any warning lights illuminated?





Appendix B: Lockout/Tagout Procedures

Specific Energy Control Procedures

Machine or Equipment for this Procedure:

Specialty Vehicle Trailer: **CCTV Outside Broadcast Unit**

Control of Hazardous Energy:

Type of Hazardous Energy	When is it Necessary to Lock Out
Electrical 380/400V AC	When servicing main electrical power line
Electrical 220V AC room circuits	When servicing or performing installation inside specific sections of the trailer
Electrical 12V DC	When servicing the following: 12V DC Lighting, Hydraulic Pump, Cable Reels
Electrical 12V DC From Battery	When servicing the following: 12V DC Lighting, Hydraulic Pump, Cable Reels

Affected Personnel to notify when the Specialty Vehicles Trailer is to be Locked Out:

Name/Department:	Location:
Production employees	In the vicinity of the trailer



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Shut down specifications for the Specialty Vehicle Trailers:

Energy Type and Rating:	Type of Energy Isolating Device:	Location of Energy Isolating Device:	Lockout Device Used:
Main power feed Electrical 380/400V AC	Circuit Breaker or Plug	Normally located above the Facility Power Shore	Lock and tag with or without lockout hasp
Light or outlet circuits Electrical 220V AC	Wall switch or circuit breaker	Distribution panel for circuit breaker, wall switch for room circuits	Lock and tag with a Universal Wall Switch Lockout, Universal Circuit Breaker Lockout
Electrical 12V DC From Battery	Remove Battery Cables	Right side underbody compartment, On battery	Lock and tag with a Plug Lockout attachment device
Broadcast Equipment	Circuit Breaker	Distribution Panel in equipment area	Lock and tag with or without lockout hasp
Air Conditioning System 380/400V AC	40A Circuit Breaker	CB in 380/400V AC Distribution Panel and Chiller are a single unit.	Lock and tag with or without lockout hasp
Air Conditioning System Blowers 220V AC	15A Circuit Breaker	CB in 380/400V AC Distribution Panel.	Lock and tag with or without lockout hasp
Heating System	15A Circuit Breaker	CB in 380/400V AC Distribution Panel	Lock and tag with or without lockout hasp

Methods to dissipate energy:

N/A

Method of Verifying the Isolation of the Machine or Equipment:

Voltmeter



Appendix C: Quarterly Maintenance Checklist



PREVENTIVE MAINTENANCE CHECKLIST

Company Performing Preventive Maintenance:

Service Technician:

Trailer ID # :

Trailer ID # :	Date	Date	Date	Date	
HVAC	3M	6M	9M	12M	Comments
Inspect/change filters					
Inspect Thermostats					
Verify heat strip operation					
Inspect/clean evaporator coil					
Clean/inspect condenser coils					
Inspect electrical contactors					
Verify refrigerant pressures					
Inspect refrigeration piping abrasion					
Lubricate fan motors if applicable					
Inspect covers/fasteners					
Verify compressor amp draw					
Verify condensate pans/drains					
Verify Condenser motor operation					
Chiller	3M	6M	9M	12M	Comments
Inspect electrical contactors					
Verify refrigerant pressures					
Inspect refrigeration piping abrasion					
Inspect pump seal					
Lubricate motors					
Clean/replace aluminum filters					
Inspect covers/fasteners					
Verify operating/alarm controls					
Verify CW supply temp 45-75 F					
Inspect/replace glycol filter					
Clean/ inspect condensing coils					
Verify/adjust glycol level					
Verify Condenser motor operation					



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Trailer	3M	6M	9M	12M	Comments
Test/inspect lift gate					
Inspect rails/ pins					
Inspect lift fittings/pivot points					
Clean / lubricate slide rails					
Verify lift switches and remote					
Load test van battery (lift)					
Verify hydraulic fluid level					
Verify van battery charger					
Verify roll door controls					
Inspect roll door mounting bolts					
Inspect roll door clutch/hardware					
Inspect roll door side track rails					
Inspect roll door key way					
Inspect awning					
Inspect bay door shocks/hardware					
Verify bay light operation					
Inspect clean and RF door gasket. Verify RF door operation					
Verify RF door lock and the handle operate correctly					
Check RF door for binding and loose hardware.					
Check door hinges/stops/latches for proper operation					
Inspect Slide outs for operation					
Inspect Slide out compressor					
Empty compressor drain and verify Y-strainer is cleaned out					
Check Fire system Last Inspection Date _____					
Inspect stair mounts					
Inspect interior flooring					
Verify bay heater operation					
Inspect cabinet latches and hinges					
Verify phone/communication lines					
Inspect landing gear					
Inspect locking pins					
Inspect air drive or air/hydraulic					
Inspect air tanks					
Verify hub fluid levels					
Inspect undercarriage/frame					
Inspect airbags/airlines/fittings					
Inspect shocks/bushings					
Inspect Tires / Rotate as needed					
Note hub meter mileage _____					



Generator	3M	6M	9M	12M	Comments
Clean fuel/water separator & replace filter					
Lamp test on control panel					
Inspect fuel lines & injectors					
Change oil/filters- 250 hrs					
Check crankcase breather					
Check hoses/belts					
Verify radiator coolant level					
Verify coolant freeze point & pH					
Verify block heater operation					
Inspect housing mounting bolts					
Inspect muffler/brackets					
Verify battery charging voltage					
Load test battery/clean terminals					
Verify voltage & hertz output					
Record hours run since last P.M. () Recorded Generator Hours					

Electrical	3M	6M	9M	12M	Comments
Inspect breakers and panels					
Inspect lighting and bulbs					
Inspect power cord and plug					
Inspect 110volt outlets					

Humidifier	3M	6M	9M	12M	Comments
Inspect/replace steam tank					
Verify humid control set point					
Inspect/fill water reservoir					
Clean fill and drain valves					
Verify 12 volt pump					

Misc.	3M	6M	9M	12M	Comments
Attach and/or fill out Quarterly Service Record for all major components					

Comment :



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Signature of Technician: _____

Date: _____