

**TABLE 2-5. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)
 (continued)**

Item No.	Interval			Item to be inspected	Procedures Check for and have repaired or adjusted as necessary	Equipment is not ready/ available if:
	B	D	A			
16	•			Air Cleaner Assembly ELECTRICAL SYSTEM	Inspect air cleaner assembly and piping for loose or damaged connections. Check restriction indicator for indication of clogged air cleaner element (Refer to Figure 3-1). <u>WARNING</u> DC voltages are present at generator set electrical components even with generator set shut down. Avoid shorting any positive terminal with ground/negative. Failure to comply can cause injury to personnel and damage to equipment.. <u>WARNING</u> Batteries give off a flammable gas. Do not smoke or use open flame when performing maintenance. Failure to comply can cause injury or death to personnel and equipment damage due to flames and explosion. <u>WARNING</u> Battery acid can cause burns to unprotected skin. Avoid contact with battery acid. Failure to comply can cause injury to personnel.	Piping connections are loose. Clogged element is indicated.
17	•			Batteries	Inspect electrolyte level (wet cell batteries only).	Electrolyte level is below battery plates.
18	•			Battery Cables	Inspect cables and connectors for corrosion and loose, damaged, or missing parts.	Battery cables are loose, damaged, or missing.

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(continued)**

Item No.	Interval			Item to be inspected	Procedures Check for and have Repaired or adjusted as necessary	Equipment is not ready/ available if:
	B	D	A			
					<u>WARNING</u>	
					High voltage is produced when this generator set is in operation. Make sure unit is completely shut down and free of any power source before attempting any repair or maintenance on the unit. Failure to comply can cause injury or death to personnel.	
19	•			Output Box Assembly	Check for loose or damaged wiring or cables (Figure 1-2).	Loose or damaged wiring or cables.
20	•			Load Output Terminal Board	Check output terminals for damaged or missing hardware (26, Figure 1-30 sheet 2)	Damaged or missing hardware.
				DCS CONTROL BOX ASSEMBLY		
21	•		•	Controls and Indicators	Check all controls and indicators for damaged or missing parts. Ensure relays are securely plugged in.	Controls or indicators with damaged or missing parts.
		•			Ensure all indicators are operating properly.	CIM inoperative.
22	•			Control Box Wiring Harness	Check for loose or damaged wiring.	Loose or damaged wires.
23	•			Parallel Operation Cable	If required for generator set operation, inspect parallel operation cable for damage.	

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 (continued)**

Item No.	Interval			Item to be inspected	Procedures Check for and have repaired or adjusted as necessary	Equipment is not ready/ available if:
	B	D	A			
24	•	•		Ground Rod Cable and Connection	<p style="text-align: center;"><u>WARNING</u></p> <p>High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply can cause injury or death to personnel.</p> <p>Inspect ground rod and cable for loose connections, breaks, damage, and corrosion. Visual inspection only.</p>	Cable is missing or damaged.

SECTION III. OPERATION UNDER USUAL CONDITIONS

2.7 GENERAL.

This section provides information and guidance for generator set operation under normal conditions. Refer to FM 20-31.

2.8 GENERATOR SET INSTALLATION.

2.8.1 General.

WARNING

Exhaust discharge contains deadly gases including carbon monoxide. Do not operate generator set in an enclosed area unless exhaust discharge is properly vented outside. Failure to comply can cause injury or death to personnel.

- a. Ensure that installation site is as level as possible.
- b. Provide adequate ventilation to prevent recirculation of hot air exhausted from generator set.
- c. Refer to Figure 2-4 for base mounting measurements.

2.8.2 Outdoor Installation.

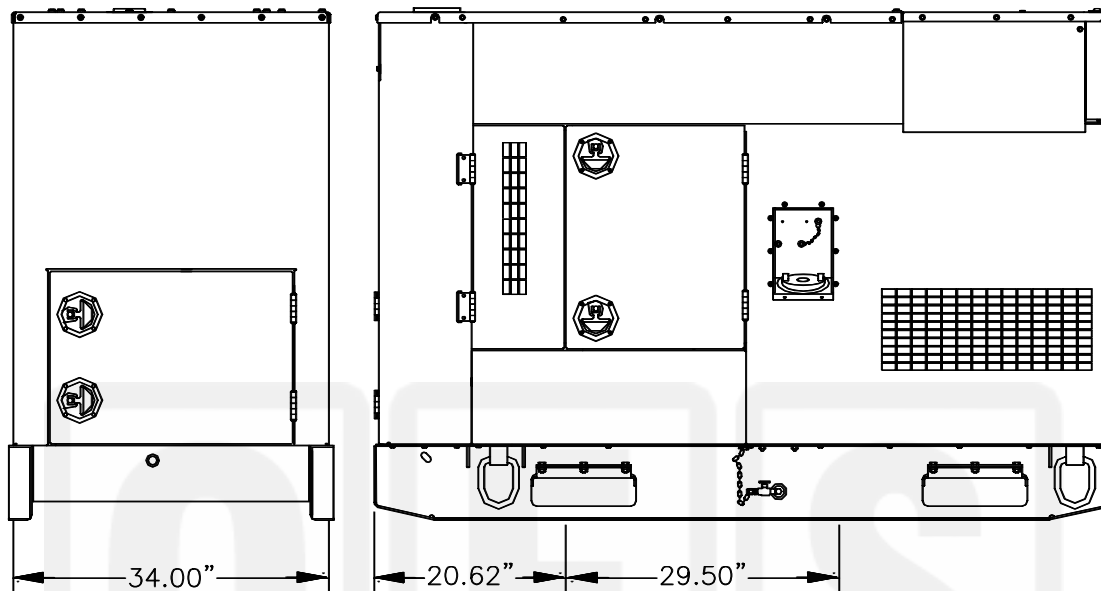
- a. Make use of natural protective barriers.

FIGURE 2-4. BASE MOUNTING MEASUREMENTS

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- b. Allow space on all sides for service and maintenance. Refer to Figure 2-5 for minimum clearance measurements.
- c. Ensure soil is firm and well drained.
- d. Use planks or other material for support in areas where soil will not support the generator set.

2.8.3 Indoor Installation.

WARNING

Exhaust discharge contains deadly gases including carbon monoxide. Do not operate generator set in an enclosed area unless exhaust discharge is properly vented outside. Failure to comply can cause injury or death to personnel.

CAUTION

Never position generator set with air inlets near a wall or other object that interferes with cooling air circulation. Failure to comply can cause damage to equipment.

- a. Provide ducts and vents to outside of building if good supply of cooling air is not available.
- b. Make air intake and outlet openings in building same size or larger than those on the generator set.

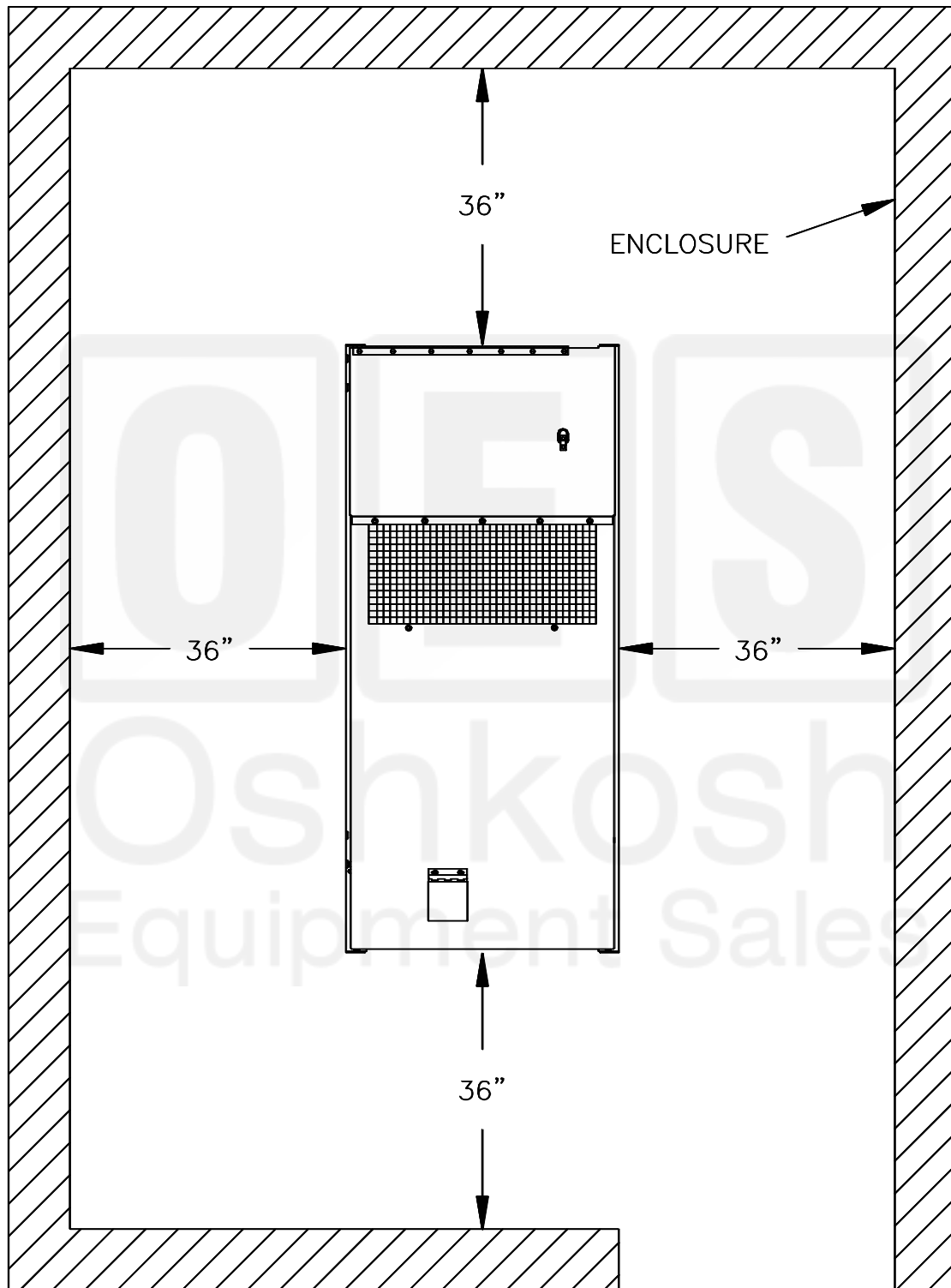


FIGURE 2-5. MINIMUM ENCLOSURE CLEARANCE MEASUREMENTS