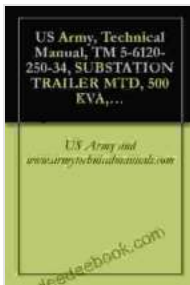


US Army Technical Manual TM 6120-250-34: Substation Trailer MTD 500 KVA AC 416Y

This technical manual provides instructions for the operation and maintenance of the Substation Trailer MTD 500 KVA AC 416Y.



**US Army, Technical Manual, TM 5-6120-250-34,
SUBSTATION TRAILER MTD, 500 KVA, AC, 416Y/240 V,
208Y/120 V, 3 PHASE, 50/6, (AVIONICS MODEL 950-
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★★★★★ 5 out of 5

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Section 1:

This section provides an overview of the Substation Trailer MTD 500 KVA AC 416Y, including its purpose, capabilities, and limitations.

Purpose

The Substation Trailer MTD 500 KVA AC 416Y is designed to provide temporary electrical power to military installations.

Capabilities

The Substation Trailer MTD 500 KVA AC 416Y is capable of providing the following electrical power:

- 500 kVA of three-phase AC power at 416Y volts
- 250 kVA of single-phase AC power at 240 volts

Limitations

The Substation Trailer MTD 500 KVA AC 416Y is not designed to operate in the following conditions:

- Extreme heat or cold
- High humidity
- Dusty or sandy environments

Section 2: Operation

This section provides instructions for the operation of the Substation Trailer MTD 500 KVA AC 416Y.

Pre-Operation Checks

Before operating the Substation Trailer MTD 500 KVA AC 416Y, the following pre-operation checks must be performed:

- Check the fluid levels in the engine and generator.
- Check the air filter for any dirt or debris.
- Check the fuel lines for any leaks.
- Check the electrical connections for any loose or damaged wires.

Starting the Generator

To start the generator, follow these steps:

1. Turn the fuel valve to the "on" position.
2. Turn the ignition key to the "start" position.
3. Once the generator has started, adjust the throttle to the desired speed.

Connecting the Load

Once the generator is running, the load can be connected. To connect the load, follow these steps:

1. Turn off the circuit breaker on the load.

2. Connect the load to the generator using the appropriate electrical cables.
3. Turn on the circuit breaker on the load.

Stopping the Generator

To stop the generator, follow these steps:

1. Turn off the circuit breaker on the load.
2. Turn the throttle to the "idle" position.
3. Turn the ignition key to the "off" position.

Section 3: Maintenance

This section provides instructions for the maintenance of the Substation Trailer MTD 500 KVA AC 416Y.

Daily Maintenance

The following daily maintenance tasks should be performed on the Substation Trailer MTD 500 KVA AC 416Y:

- Check the fluid levels in the engine and generator.
- Check the air filter for any dirt or debris.
- Check the fuel lines for any leaks.
- Check the electrical connections for any loose or damaged wires.

Weekly Maintenance

The following weekly maintenance tasks should be performed on the Substation Trailer MTD 500 KVA AC 416Y:

- Clean the air filter.
- Change the oil in the engine and generator.
- Inspect the fuel lines for any leaks.
- Inspect the electrical connections for any loose or damaged wires.

Monthly Maintenance

The following monthly maintenance tasks should be performed on the Substation Trailer MTD 500 KVA AC 416Y:

- Change the spark plugs.
- Inspect the generator brushes.
- Inspect the voltage regulator.

Annual Maintenance

The following annual maintenance tasks should be performed on the Substation Trailer MTD 500 KVA AC 416Y:

- Overhaul the engine.
- Overhaul the generator.
- Inspect the trailer for any damage.

Section 4: Troubleshooting

This section provides troubleshooting tips for the Substation Trailer MTD 500 KVA AC 416Y.

Problem: The generator will not start.

Possible causes:

- The fuel tank is empty.
- The fuel lines are clogged.
- The spark plugs are fouled.
- The battery is dead.

Problem: The generator is running but not producing any power.

Possible causes:

- The generator brushes are worn out.
- The voltage regulator is malfunctioning.
- The electrical connections are loose or damaged.

Problem: The generator is overheating.

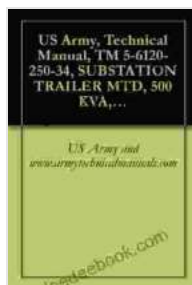
Possible causes:

- The air filter is clogged.
- The cooling system is malfunctioning.
- The generator is overloaded.

Section 5: Appendices

This section contains the following appendices:

- Appendix A: Technical Specifications
- Appendix B: Wiring Diagrams
- Appendix C: Parts List

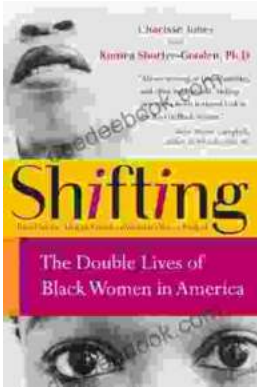


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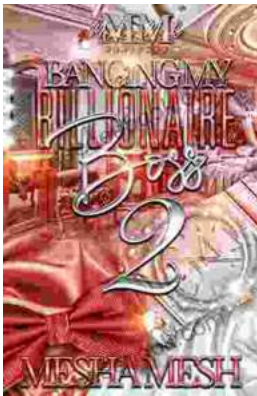
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