

8. OPERATING INSTRUCTIONS

8.1 Before Starting

Be sure to disconnect the electrical load and switch the circuit breakers to the "OFF" position prior to starting the engine. Never start the engine with the circuit breakers "ON".

Check the lubricating oil level prior to starting the engine. Make sure the generating set is level. The oil level must be maintained between two notches on the dipstick.

When there is not enough lubricating oil, fill the crankcase with high grade motor oil. Use a high quality detergent oil classified SC, SD.

CAUTION Never start the engine when the oil level is below the lower mark on the dipstick.

Check the fuel level in the fuel gauge. When fuel is low, fill the fuel tank with clean and fresh unleaded automotive gasoline.

DANGER If gasoline spillage occurs, completely wipe up the spilled gasoline.

8.2 Starting

8.2.1 Open the fuel cock located below the fuel tank. The fuel starts to flow when the fuel cock is turned downward.

8.2.2 Throw the idle control switch to the "ON" (up) position.

8.2.3 Close the choke. Adjust the opening of the choke valve according to operating conditions. When the engine is warm or the air temperature is high, close the choke valve halfway or open it all the way.

8.2.4 Confirm that the circuit breakers are "OFF".

8.2.5 Start the engine. The operation switch to

knob and slowly pull it out. The resistance becomes hardest at a certain position, corresponding to the compression point. Rewind the rope a little from that point and pull out sharply.

If the engine fails to start, repeat the procedure.

CAUTION Do not pull the rope all the way to the end. Do not release the starter knob after pulling. Allow it to rewind as soon as possible.

8.3 Warm up

8.3.1 When the engine starts, open the choke slowly.

8.3.2 Run the engine at low speed for 3 minutes without load until the engine warms up.

8.3.3 Turn the idle control switch to the "OFF" (down) position and check the voltage by referring to the voltmeter on the control box.

CAUTION Do not change the engine speed control lever which is fixed in proper position prior to the delivery.

8.3.4 Check the generating set for abnormal noises and smells. Then connect the load to the receptacles of the generating set.

8.3.5 Switch the circuit breakers to the "ON" position and turn the idle control switch to either "ON" (up) or "OFF" (down) position for full engine operation.

8.4 Stopping the Engine

Take the load off the generating set and the switch circuit breaker to the "OFF" position. Run the engine with the idle control switch set to the ON position and then unload the engine. The engine revolutions automatically switch to