

WARNING

Do not use aerosol types of starting aids such as ether. Such use could result in an explosion and personal injury.

WARNING

Do not hold the engine start switch in the GLOW PLUG"II" position for longer than 10 seconds. Holding the engine start switch in this position can damage glow plugs and other engine components.

NOTICE

Do not crank the engine for more than 10 seconds. If the engine does not start, allow the starter to cool for 2 minutes before cranking again. The engine start switch must be turned to the OFF position before trying to restart.

1. Move all hydraulic controls to the HOLD position or to the NEUTRAL position.

2. Move the hydraulic lockout control to the RAISED position.

Note: The engine will not start unless the hydraulic lockout control is in the RAISED position.

3. Turn the engine start switch to ON position. During cold weather, leave the engine start switch to ON position until glow plug lamp on the display turns OFF to preheat the glow plugs.

Note: Preheating the glow plugs on a warm engine is not necessary.

4. All the indicators on the monitor panel should be activated and the action alarm should sound for 2.5 seconds. Check the electrical system if any of the indicators are not activated or if the action alarm does not sound. Make necessary repairs before starting the engine.

5. Before you start the engine, check for the presence of bystanders or maintenance personnel. Ensure that all personnel are clear of the machine. Briefly sound the horn before you start the engine.

6. Turn the engine start switch key to the START position.

7. When the engine starts, release the engine start switch key.

8. If the engine does not start, turn the engine start switch key to OFF position. Then, repeat steps 5 through step 7.

9. After the engine starts, leave the engine in low idle for at least 1 minute. If the engine is cold, refer to Operation and Maintenance Manual"Engine and Machine Warm-Up".

Note: When the engine has been started at an altitude of 800 m (2625 ft) or higher, the engine has slightly less power. However, when working, this reduction is not noticeable.

Note: If the machine is equipped with a push to start engine switch, push the button to start the engine. No key will be present.