

**APPENDIX C3**

**ENGINE STARTING AND WARM-UP PROCEDURES FOR DIESEL ENGINES**

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1. Set park brake, place gearshift in neutral, and depress clutch pedal if applicable.
2. Turn the key switch to the “run” position.
3. Notice the **“wait to start”** light. Do not crank the engine until the light goes off. If the engine is warm, the light may not come on. In extreme cold weather, it may be necessary to cycle the glow plugs or air intake heater (AIH) several times.
4. When the light goes out, turn the key to the “start” position. Release the key once the engine has started. When the glow plugs/AIH is hot, the engine is ready to start.
5. If a false start occurs or the engine runs for a short time and stops, turn the key switch to the “off” position, and then back on to the run position. Watch for the **“wait to start light”** to go out and attempt to restart the engine.
6. Check all gauges during the warm-up period. Do not leave the vehicle unattended during the warm-up period. (Refer to your school division’s school bus idling policy regarding idling time permitted.)

**Important Notes . . .**

- \* **If the engine fails to start in 30 seconds, release the starter switch and wait two or three minutes to allow the starter motor to cool. If after three attempts the engine will not start, request assistance from service personnel.**
- \* **Do not increase engine speed until the oil pressure gauge indicates normal. Shut the engine down if the gauge does not register oil pressure within 20 seconds.**
- \* **EXPLOSION HAZARD WARNING: Do not use volatile starting aids such as ether, propane, or gasoline in the air intake system. The glow plugs/AIH will ignite the vapours and cause severe engine damage or personal injury.**
- \* **Follow the warm-up procedure as outlined by your school division.**

**Note: These are basic guidelines. Drivers should refer to the operator’s manual for additional information or contact service personnel.**