BEFORE STARTING ENGINE

WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

1. Open hood and check engine oil and coolant levels. (See Service section.)

2. Open fuel shut-off valves. Check fuel filter and fuel/water separator bowls. (See Service section.)

3. If temperature is below 40°F (4°C), see Cold Weather Starting in this section.

STARTING ENGINE

IMPORTANT: To prevent engine damage:
   • DO NOT use starting fluid to start engine.

1. LOCK both brake pedals (A) together with brake pedal latch (B).

2. Lift park brake lever (C) and push brake pedals (A) down to LOCK park brake. Remove foot from pedals. Pedals should stay down.
NOTE: Mid PTO is OPTIONAL equipment.

3. Place gear shift lever (A) and PTO lever(s) (B) in NEUTRAL position. Starter will not operate if gear shift lever and PTO lever(s) are not in NEUTRAL position.

4. Lower all attaching equipment to surface with rockshaft control lever (A) and/or OPTIONAL SCV lever (B). (See Using Rockshaft Control Lever or Using Optional SCV Lever in Driving Machine section.)

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5. Push engine speed lever (A) completely forward.

IMPORTANT: As soon as engine starts, pull speed control lever back so engine runs at 1200-1500 rpm.
- Do not run a cold engine at full throttle.
6. Turn key switch (A) clockwise to FIRST position.

7. Check indicator lamps:
   - Oil pressure indicator (B) will glow.
   - Charging system indicator (C) will glow.
   - Park brake indicator (D) will flash when park brake is LOCKED.

If any indicator lamps do not light, check with your John Deere dealer.

A—Key Switch  
B—Oil Pressure Indicator  
C—Charging System Indicator  
D—Park Brake Indicator

8. Push clutch pedal (A) all the way down.
CAUTION: Avoid possible injury or death from a machine runaway.
- Do not start engine by shorting across starter terminals. Machine will start in gear and move if normal circuitry is bypassed.
- NEVER start engine while standing on ground.
- Start engine only from operator’s seat with transmission in NEUTRAL position.

9. Turn key switch (A) fully clockwise to ENGAGE starter.

10. Release key when engine starts. If key is released before engine starts, wait until starter and engine STOP turning before trying again.

IMPORTANT: Do not operate starter more than 20 seconds at a time.
- If engine does not start, wait at least two minutes before trying again.
- If engine does not start in four attempts, refer to Troubleshooting section.

11. Check indicator lamps (A and B) as soon as engine starts:
- If either oil pressure or charging system indicators glow longer than 5 seconds, STOP engine and determine cause

12. Remove foot from clutch pedal.

13. Operate engine at 1200-1500 rpm for several minutes. Do not accelerate or apply a load on engine until it warms up.