IMPORTANT: Read all safety precautions and instructions carefully before operating equipment. Refer to operating instruction of equipment that this engine powers.

Ensure engine is stopped and level before performing any maintenance or service.

Warranty coverage as outlined in the warranty card and on KohlerEngines.com. Please review carefully as it provides you specific rights and obligations.

To maintain compliance with applicable emission regulations, exhaust system backpressure may not exceed limits which can be found on KohlerEngines.com. Search by Model No., select Read More, then select Specs tab.

Record engine information to reference when ordering parts or obtaining warranty coverage.

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Specification</th>
<th>Serial Number</th>
<th>Purchase Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
Safety Precautions

**WARNING:** A hazard that could result in death, serious injury, or substantial property damage.

**CAUTION:** A hazard that could result in minor personal injury or property damage.

NOTE: is used to notify people of important installation, operation, or maintenance information.

---

**WARNING**
Explosive Fuel can cause fires and severe burns.
Do not fill fuel tank while engine is hot or running.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well ventilated, unoccupied buildings, away from sparks or flames. Spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Never use gasoline as a cleaning agent.

**WARNING**
Carbon Monoxide can cause severe nausea, fainting or death.
Avoid inhaling exhaust fumes.

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled.

**WARNING**
Accidental Starts can cause severe injury or death.
Disconnect and ground spark plug lead(s) before servicing.

Before working on engine or equipment, disable engine as follows: 1) Disconnect spark plug lead(s). 2) Disconnect negative (−) battery cable from battery.

**WARNING**
Hot Parts can cause severe burns.
Do not touch engine while operating or just after stopping.

Never operate engine with heat shields or guards removed.

**WARNING**
Rotating Parts can cause severe injury.
Stay away while engine is in operation.

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate engine with covers, shrouds, or guards removed.

**CAUTION**
Electrical Shock can cause injury.

Do not touch wires while engine is running.

**WARNING**
Carbon Monoxide can cause severe nausea, fainting or death.

Avoid inhaling exhaust fumes.

**CAUTION**
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---

**California Proposition 65 Warning**

Engine exhaust from this product contains chemicals known to State of California to cause cancer, birth defects, or other reproductive harm.

**California Proposition 65 Warning**

This product contains chemicals known to State of California to cause cancer, birth defects, or other reproductive harm.
Visit KohlerEngines.com for service parts information and purchasing options.

**Pre-Start Checklist**

1. Check oil level. Add oil if low. Do not overfill.
2. Check fuel level. Add fuel if low. Check fuel system components and lines for leaks.
3. Check and clean cooling areas, air intake areas and external surfaces of engine (particularly after storage).
4. Check that air cleaner components and all shrouds, equipment covers, and guards are in place and securely fastened.
5. Check spark arrestor (if equipped).
WARNING
Carbon Monoxide can cause severe nausea, fainting or death. Avoid inhaling exhaust fumes.

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled.

WARNING
Rotating Parts can cause severe injury. Stay away while engine is in operation.

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate engine with covers, shrouds, or guards removed.

Standard Choke System
- Above 32°F (0°C)
Refer to operating instructions of equipment this engine powers for specific starting instructions.

- 32°F (0°C) and Below
1. Refer to operating instructions of equipment this engine powers for specific starting instructions.
2. Refer to Cold Weather Starting Hints within this manual.

Smart-Choke™
- Above 32°F (0°C)
1. This feature will automatically adjust engine choke on start up with throttle in any position.
2. If engine does not start on first attempt, wait 3-5 seconds and try again (if no start after third attempt wait 1 minute).
3. If engine does not consistently start by fifth attempt, consult Kohler authorized dealer for assistance.

- 32°F (0°C) and Below
1. This feature will automatically adjust engine choke on start up with throttle in any position (winter blend fuel is recommended).
2. If engine does not start on first attempt, wait 3-5 seconds and try again (if no start after third attempt wait 1 minute).
3. If engine does not start consistently by fifth attempt, consult Kohler authorized dealer for assistance.

eChoke™
- Above 32°F (0°C)
1. This feature will automatically make system adjustments to engine on start up with throttle in any position.
2. If engine does not start on first attempt, wait 3-5 seconds and try again (if no start after third attempt wait 1 minute).
3. If engine does not start consistently by fifth attempt, turn key to OFF, pause briefly, and make another attempt. If engine does not start, consult Kohler authorized dealer for assistance.

- 32°F (0°C) and Below
1. This feature will automatically make system adjustments to engine on start up with throttle in any position (winter blend fuel is recommended).
2. If engine does not start on first attempt, wait 3-5 seconds and try again (if no start after third attempt wait 1 minute).
3. If engine does not start consistently by fifth attempt, turn key to OFF, pause briefly, and make another attempt. If engine does not start, consult Kohler authorized dealer for assistance.

Cold Weather Starting Hints
1. Use proper oil for temperature expected.
2. Disengage all possible external loads.
3. Use fresh winter grade fuel. Winter grade fuel has higher volatility to improve starting.
4. Make sure battery has a full charge.

Stopping
1. If possible, remove load by disengaging all PTO driven attachments.
2. Position throttle control between half and full throttle; stop engine.
3. Do not allow engine/application to be left unattended with key ON (RUN position) for long periods. If left in such a condition, operator must turn key completely OFF before attempting a restart to reset system.

Angle of Operation
Refer to operating instructions of equipment this engine powers. Do not operate this engine exceeding maximum angle of operation; see specification table. Engine damage could result from insufficient lubrication.

Engine Speed
NOTE: Do not tamper with governor setting to increase maximum engine speed. Overspeed is hazardous and will void warranty.
High Altitude Operation

If this engine is operated at an altitude of 4000 ft. (1219 meters) or above, a high altitude carburetor kit is required. To obtain high altitude carburetor kit information or to find a Kohler authorized dealer, visit KohlerEngines.com or call 1-800-544-2444 (U.S. and Canada).

This engine should be operated in its original configuration below 4000 ft. (1219 meters).

Operating this engine with the wrong engine configuration at a given altitude may increase its emissions, decrease fuel efficiency and performance, and result in damage to the engine.

Maintenance Instructions

**WARNING**

Accidental Starts can cause severe injury or death. Disconnect and ground spark plug lead(s) before servicing.

Before working on engine or equipment, disable engine as follows: 1) Disconnect spark plug lead(s). 2) Disconnect negative (–) battery cable from battery.

Normal maintenance, replacement or repair of emission control devices and systems may be performed by any repair establishment or individual; however, warranty repairs must be performed by a Kohler authorized dealer found at KohlerEngines.com or 1-800-544-2444 (U.S. and Canada).

Maintenance Schedule

| Every 25 Hours¹ | Service/replace precleaner. |
| Every 25 Hours¹ | Replace air cleaner element (if not equipped with precleaner). |
| Every 100 Hours¹ | Replace air cleaner element (if equipped with precleaner). |
| Every 100 Hours¹ | Change oil and filter. |
| Every 100 Hours² | Remove cooling shrouds and clean cooling areas. |
| Every 100 Hours | Check that all fasteners are in place and components are properly secured. |
| Every 500 Hours² | Replace fuel filter. |
| Every 500 Hours | Have valve lash checked/adjusted. |
| Every 500 Hours | Replace spark plugs and set gap. |

¹ Perform these procedures more frequently under severe, dusty, dirty conditions.

² Have a Kohler authorized dealer perform this service.

Oil Recommendations

We recommend use of Kohler oils for best performance. Other high-quality detergent oils (including synthetic) of API (American Petroleum Institute) service class SJ or higher are acceptable. Select viscosity based on air temperature at time of operation as shown in table below.

<table>
<thead>
<tr>
<th>°F</th>
<th>-20</th>
<th>0</th>
<th>20</th>
<th>30</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td>-30</td>
<td>-20</td>
<td>-10</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

| Viscosity | 5W-30 | 10W-30 | SAE 30 |

Check Oil Level

**NOTE:** To prevent extensive engine wear or damage, never run engine with oil level below or above operating range indicator on dipstick.

Ensure engine is cool. Clean oil fill/dipstick areas of any debris.

1. Remove dipstick; wipe oil off.
2. Reinsert dipstick into tube; press completely down.
3. Remove dipstick; check oil level. Level should be at top of indicator on dipstick.
4. If oil is low on indicator, add oil up to top of indicator mark.
5. Reinstall and secure dipstick.
**Fuel Recommendations**

**WARNING**

Explosive Fuel can cause fires and severe burns.

Do not fill fuel tank while engine is hot or running.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well ventilated, unoccupied buildings, away from sparks or flames. Spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Never use gasoline as a cleaning agent.

NOTE: E15, E20 and E85 are NOT approved and should NOT be used; effects of old, stale or contaminated fuel are not warrantable.

Fuel must meet these requirements:
- Clean, fresh, unleaded gasoline.
- Octane rating of 87 (R+M)/2 or higher.
- Research Octane Number (RON) 90 octane minimum.
- Gasoline up to 10% ethyl alcohol, 90% unleaded is acceptable.
- Methyl Tertiary Butyl Ether (MTBE) and unleaded gasoline blend (max 15% MTBE by volume) are approved.
- Do not add oil to gasoline.
- Do not overfill fuel tank.
- Do not use gasoline older than 30 days.

**Fuel Line**

Low permeation fuel line must be installed on carbureted Kohler Co. engines to maintain EPA and CARB regulatory compliance.
Spark Plugs

**CAUTION**

Electrical Shock can cause injury. Do not touch wires while engine is running.

Clean out spark plug recess. Remove plug and replace.
1. Check gap using wire feeler gauge. Adjust gap, see specification table for adjustment.
2. Install plug into cylinder head.
3. Torque plug to 20 ft. lb. (27 N·m).

Air Cleaner

**NOTE:** Operating engine with loose or damaged air cleaner components could cause premature wear and failure. Replace all bent or damaged components.

**NOTE:** Paper element cannot be blown out with compressed air.

Rotate air cleaner cover levers outward to unlock cover; remove air cleaner cover.

Precleaner (if equipped):
1. Remove precleaner from paper element.
2. Replace or wash precleaner in warm water with detergent. Rinse and allow to air dry.
3. Lightly oil precleaner with new engine oil; squeeze out excess oil.
4. Reinstall precleaner over paper element.

Paper Element:
1. Remove element from base; service precleaner. Discard element.
2. Install precleaner over new paper element and install on base.

Position air cleaner cover with levers outward over air cleaner; turn levers inward to lock.

Breather Tube

Ensure both ends of breather tube are properly connected.

Air Cooling

**WARNING**

Hot Parts can cause severe burns. Do not touch engine while operating or just after stopping.

Never operate engine with heat shields or guards removed.

Proper cooling is essential. To prevent overheating, clean screens, cooling fins, and other external surfaces of engine. Avoid spraying water at wiring harness or any electrical components. See Maintenance Schedule.

Repairs/Service Parts

We recommend that you use a Kohler authorized dealer for all maintenance, service, and engine parts. To find a Kohler authorized dealer visit KohlerEngines.com or call 1-800-544-2444 (U.S. and Canada).

Storage

If engine will be out of service for 2 months or more follow procedure below.
1. Add Kohler PRO Series fuel treatment or equivalent to fuel tank. Run engine 2-3 minutes to get stabilized fuel into fuel system (failure due to untreated fuel are not warrantable).
2. Change oil while engine is still warm from operation. Remove spark plug(s) and pour about 1 oz. of engine oil into cylinder(s). Replace spark plug(s) and crank engine slowly to distribute oil.
3. Disconnect negative (−) battery cable.
4. Store engine in a clean, dry place.
Troubleshooting

Do not attempt to service or replace major engine components, or any items that require special timing or adjustment procedures. This work should be performed by a Kohler authorized dealer.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No Fuel</td>
</tr>
<tr>
<td>Will Not Start</td>
<td>●</td>
</tr>
<tr>
<td>Hard Starting</td>
<td>●</td>
</tr>
<tr>
<td>Stops Suddenly</td>
<td>●</td>
</tr>
<tr>
<td>Lacks Power</td>
<td>●</td>
</tr>
<tr>
<td>Operates Erratically</td>
<td>●</td>
</tr>
<tr>
<td>Knocks or Pings</td>
<td>●</td>
</tr>
<tr>
<td>Skips or Misfires</td>
<td>●</td>
</tr>
<tr>
<td>Backfires</td>
<td>●</td>
</tr>
<tr>
<td>Overheats</td>
<td>●</td>
</tr>
<tr>
<td>High Fuel Consumption</td>
<td>●</td>
</tr>
</tbody>
</table>

### Engine Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore</th>
<th>Stroke</th>
<th>Displacement</th>
<th>Oil Capacity (Refill)</th>
<th>Spark Plug Gap</th>
<th>Maximum Angle of Operation (@ full oil level)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT610</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>KT620</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>KT715</td>
<td>3.27 in. (83 mm)</td>
<td>2.4 in. (61 mm)</td>
<td>40.3 cu. in. (660 cc)</td>
<td>2.0 U.S. qt. (1.9 L)</td>
<td>0.03 in. (0.76 mm)</td>
<td>25°</td>
</tr>
<tr>
<td>KT725</td>
<td></td>
<td>2.6 in. (67 mm)</td>
<td>44.2 cu. in. (725 cc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KT730</td>
<td></td>
<td></td>
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<tr>
<td>KT735</td>
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<tr>
<td>KT740</td>
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</tr>
<tr>
<td>KT745</td>
<td>2.7 in. (69 mm)</td>
<td>2.7 in. (69 mm)</td>
<td>45.6 cu. in. (747 cc)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Exceeding maximum angle of operation may cause engine damage from insufficient lubrication.

Additional specification information can be found in service manual at KohlerEngines.com.


Any and all horsepower (hp) references by Kohler are Certified Power Ratings and per SAE J1940 & J1995 hp standards. Details on Certified Power Ratings can be found at KohlerEngines.com.