Congratulations – You have selected a fine four-cycle, twin cylinder, air-cooled engine. Kohler designs long life strength and on-the-job durability into each engine…making a Kohler engine dependable…dependability you can count on. Here are some reasons why:

- Parts subject to the most wear and tear (like cylinders, crankshafts, and camshafts) are made from precision formulated cast iron. Because the cast iron cylinders can be rebored, these engines can last even longer.

- Kohler engines are easy to service. All routine service parts – points, condensers, air cleaner, spark plug, and carburetor are easily and quickly accessible.

- Every Kohler engine is backed by a worldwide network of over 10,000 distributors and dealers. Service support is just a phone call away. Call 1-800-544-2444 (U.S. & Canada) for Sales & Service assistance.

To keep your engine in top operating condition, follow the maintenance procedures in this manual.
Safety Information

For Your Safety!
These precautions should be followed at all times. Failure to follow these precautions could result in injury to yourself and others.

<table>
<thead>
<tr>
<th>WARNING</th>
<th>WARNING</th>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive Fuel can cause fires and severe burns. Stop engine before filling fuel tank.</td>
<td>Rotating Parts can cause severe injury. Stay away while engine is in operation.</td>
<td>Hot Parts can cause severe burns. Do not touch engine while operating or just after stopping.</td>
</tr>
</tbody>
</table>

**Explosive Fuel!**
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. Do not fill the fuel tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent.

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

**Electrical Shock!**
Do not touch wires while engine is running.

**Hot Parts!**
Engine components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running—or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

**Electrical Shock!**
Never touch electrical wires or components while the engine is running. They can be sources of electrical shock.
Safety Information (Cont.)

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

**WARNING**
Carbon Monoxide can cause severe nausea, fainting or death.
Do not operate engine in closed or confined area.

**WARNING**
Explosive Gas can cause fires and severe acid burns.
Charge battery only in a well ventilated area. Keep sources of ignition away.

Accidental Starts!
Before servicing the engine or equipment, always disconnect the spark plug lead to prevent the engine from starting accidentally. Ground the lead to prevent sparks that could cause fires. Make sure the equipment is in neutral.

Lethal Exhaust Gases!
Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.

California Proposition 65 Warning
Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Explosive Gas!
Batteries produce explosive hydrogen gas while being charged. To prevent a fire or explosion, charge batteries only in well ventilated areas. Keep sparks, open flames, and other sources of ignition away from the battery at all times. Keep batteries out of the reach of children. Remove all jewelry when servicing batteries.

Before disconnecting the negative (−) ground cable, make sure all switches are OFF. If ON, a spark will occur at the ground cable terminal which could cause an explosion if hydrogen gas or gasoline vapors are present.
Oil Recommendations

Using the proper type and weight of oil in the crankcase is extremely important. So is checking oil daily and changing oil regularly. Failure to use the correct oil, or using dirty oil, causes premature engine wear and failure.

Before each start, make sure the crankcase is filled with proper type and quantity of oil.

Oil Type

Use high quality detergent oil of API (American Petroleum Institute) service class SG or SH. Select the viscosity based on the air temperature at the time of operation as shown in the following table.

<table>
<thead>
<tr>
<th>Temperature (°F)</th>
<th>5W-20</th>
<th>10W-30</th>
<th>10W-30</th>
<th>5W-30</th>
<th>30W</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
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<td>50</td>
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<td>-30</td>
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</tbody>
</table>

Temperature range expected before next oil change:

Figure 2. Viscosity Grades Table.

Straight 30-weight (Kohler "Magnum") oil is preferred. SAE 10W-30 oil is not recommended above 32°F. Using this oil substantially increases oil consumption and combustion chamber deposits.

NOTE: Using other than service class SG or SH oil or extending oil change intervals longer than recommended can cause engine damage.

A logo or symbol on oil containers identifies the API service class and SAE viscosity grade. See Figure 3.

Figure 3. Oil Container Logo.

Refer to “Maintenance Instructions” beginning on page 7 for detailed oil check, oil change, and oil filter change procedures.
Fuel Recommendations

**WARNING: Explosive Fuel!**
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. Do not fill the fuel tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent.

**General Recommendations**
Purchase gasoline in small quantities and store in clean, approved containers. A container with a capacity of 2 gallons or less with a pouring spout is recommended. Such a container is easier to handle and helps eliminate spillage during refueling.

Do not use gasoline left over from the previous season, to minimize gum deposits in your fuel system and to insure easy starting. Do not add oil to the gasoline.

Do not overfill the fuel tank. Leave room for the fuel to expand.

**Fuel Type**
For best results use only clean, fresh, unleaded gasoline with a pump sticker octane rating of 87 or higher. In countries using the Research method, it should be 90 octane minimum.

Unleaded gasoline is recommended as it leaves less combustion chamber deposits. Leaded gasoline may be used in areas where unleaded is not available and exhaust emissions are not regulated. Be aware however, that the cylinder head will require more frequent service.

**Gasoline/Alcohol blends**
Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved as a fuel for Kohler engines. Other gasoline/alcohol blends are not approved.

**Gasoline/Ether blends**
Methyl Tertiary Butyl Ether (MTBE) and unleaded gasoline blends (up to a maximum of 15% MTBE by volume) are approved as a fuel for Kohler engines. Other gasoline/ether blends are not approved.

**Engine Identification Numbers**
When ordering parts, or in any communication involving an engine, always give the Model, Specification, and Serial Numbers of the engine.

The engine identification numbers appear on decal (or decals) affixed to the engine shrouding. Include letter suffixes, if there are any.

Record your engine identification numbers on the identification label below (Figure 4) for future reference.

![Figure 4. Engine Identification Label.](image-url)
Operating Instructions

Also read the operating instructions of the equipment this engine powers.

Pre-Start Checklist

- Check oil level. Add oil if low. Do not overfill.
- Check fuel level. Add fuel if low.
- Check cooling air intake areas and external surfaces of engine. Make sure they are clean and unobstructed.
- Check that the air cleaner components and all shrouds, equipment covers, and guards are in place and securely fastened.
- Check that any clutches or transmissions are disengaged or placed in neutral. This is especially important on equipment with hydrostatic drive. The shift lever must be exactly in neutral to prevent resistance which could keep the engine from starting.

⚠️ WARNING: Lethal Exhaust Gases!

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.

Cold Weather Starting Hints

1. Be sure to use the proper oil for the temperature expected. See Figure 2 on page 4.
2. Declutch all possible external loads.
3. A warm battery has much more starting capacity than a cold battery.
4. Use fresh winter grade fuel. NOTE: Winter grade gasoline has a higher volatility to improve starting. Do not use gasoline left over from summer.

Starting

1. Move the throttle control lever to IDLE (slow) position. For engines without automatic choke, move choke lever into full choke position and gradually return to OFF position after engine starts and warms up.
2. Start the engine as follows:
   - For an Electric Start Engine – Activate the starter switch. Release the switch as soon as the engine starts.

NOTE: Do not crank the engine continuously for more than 10 seconds at a time. If the engine does not start, allow a 60 second cool down period between starting attempts. Failure to follow these guidelines can burn out the starter motor.

NOTE: If the engine develops sufficient speed to disengage the starter but does not keep running (a false start), the engine rotation must be allowed to come to a complete stop before attempting to restart the engine. If the start is engaged while the flywheel is rotating, the starter pinion and flywheel ring gear may clash, resulting in damage to the starter.

If the starter does not turn the engine over, shut off starter immediately. Do not make further attempts to start the engine until the condition is corrected. Do not jump start using another battery (refer to “Battery” below). See your Kohler Engine Service Dealer for trouble analysis.

Stopping

Turn ignition switch OFF.

Instrument panel is standard on basic engine. Choke, throttle, oil pressure gauge, ammeter, start button, and stop switch are all positioned for easy operation.

Battery

A 12 volt battery is normally used. Refer to the operating instructions of the equipment this engine powers for specific battery requirements.

If the battery charge is not sufficient to crank the engine, recharge the battery (see page 10).
Operating

Angle of Operation
This engine will operate continuously at angles up to 35° in any direction. Check oil level to assure crankcase oil level is at the “F” mark.

Refer to the operating instructions of the equipment this engine powers. Because of equipment design or application, there may be more stringent restrictions regarding the angle of operation.

NOTE: Do not operate this engine continuously at angles exceeding 35° in any direction. Engine damage could result from insufficient lubrication.

Cooling
NOTE: If debris builds up on the grass screen or other cooling air intake areas, stop the engine immediately and clean. Operating the engine with blocked or dirty air intake and cooling areas can cause extensive damage due to overheating.

WARNING: Hot Parts!
Engine components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running—or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

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

Maintenance Instructions

WARNING: Accidental Starts!
Before servicing the engine or equipment, always disconnect the spark plug lead to prevent the engine from starting accidentally. Ground the lead to prevent sparks that could cause fires. Make sure the equipment is in neutral.

Maintenance Schedule
These required maintenance procedures should be performed at the frequency stated in the table. They should also be included as part of any seasonal tune-up.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Maintenance Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily or Before Starting Engine</td>
<td>• Fill fuel tank.</td>
</tr>
<tr>
<td></td>
<td>• Check oil level.</td>
</tr>
<tr>
<td></td>
<td>• Check air cleaner for dirty, loose, or damaged parts.</td>
</tr>
<tr>
<td></td>
<td>• Check air intake and cooling areas, clean as necessary.</td>
</tr>
<tr>
<td>Every 25 Hours</td>
<td>• Service precleaner element!</td>
</tr>
<tr>
<td>Every 50 Hours</td>
<td>• Change oil.</td>
</tr>
<tr>
<td></td>
<td>• Remove cooling shrouds and clean cooling areas!</td>
</tr>
<tr>
<td></td>
<td>• Service air cleaner element!</td>
</tr>
<tr>
<td>Every 100 Hours</td>
<td>• Change oil filter.</td>
</tr>
<tr>
<td></td>
<td>• Check spark plug condition and gap.</td>
</tr>
<tr>
<td>Annually or Every 500 Hours</td>
<td>• Have bendix starter drive serviced².</td>
</tr>
<tr>
<td></td>
<td>• Have breaker points checked².</td>
</tr>
<tr>
<td></td>
<td>• Have ignition timing checked².</td>
</tr>
<tr>
<td></td>
<td>• Have valve and tappet clearance checked².</td>
</tr>
<tr>
<td></td>
<td>• Have cylinder heads serviced².</td>
</tr>
</tbody>
</table>

¹Perform these maintenance procedures more frequently under extremely dusty, dirty conditions.
²Have a Kohler Engine Service Dealer perform this service.
³250 hours when leaded gasoline is used.
Check Oil Level
The importance of checking and maintaining the proper oil level in the crankcase cannot be overemphasized. Check oil **BEFORE EACH USE** as follows:

1. Make sure the engine is stopped, level, and is cool so the oil has had time to drain into the sump.
2. To keep dirt, grass clippings, etc., out of the engine, clean the area around the oil fill tube before removing it.
3. Remove the dipstick; wipe oil off. Reinsert the dipstick and push it all the way down into the tube.
4. Remove the dipstick and check the oil level. The oil level should be up to, but not over, the “F” mark on the dipstick. See Figure 6.
5. If the level is low, add oil of the proper type, up to the “F” mark on the dipstick. (Refer to “Oil Type” on page 4.) Always check the level with the dipstick before adding more oil.

**NOTE:** To prevent extensive engine wear or damage, always maintain the proper oil level in the crankcase. Never operate the engine with the oil level below the “L” mark or over the “F” mark on the dipstick.

### Change Oil and Oil Filter

#### Change Oil

**For a new engine,** change oil after the first 5 hours of operation. Thereafter, change oil after every 50 hours of operation.

Change the oil while the engine is still warm. The oil will flow freely and carry away more impurities. Make sure the engine is level when filling, checking, or changing the oil.

Change the oil as follows:

1. Remove the oil drain plug. Tilt the engine slightly towards the oil drain to obtain better drainage.
2. Reinstall the drain plug. Make sure it is tightened securely.
3. Fill with new oil of the proper type to the "F" mark on the dipstick. Always check the level on the dipstick before adding more oil.

**NOTE:** To prevent extensive engine wear or damage, always maintain the proper oil level in the crankcase. Never operate the engine with the oil level below the “L” mark or over the “F” mark on the dipstick.

#### Change Oil Filter

Replace the oil filter **every 100 hours of operation.**

Always use a genuine Kohler oil filter, Part No. 277233.

Replace the oil filter as follows:

1. Drain the crankcase oil first, then remove the old oil filter. Use a 1" hex. wrench and turn the filter counterclockwise to remove.
2. Place a new replacement filter in a shallow pan with the open end up. Pour new oil of the proper type, in through the threaded center hole. Stop pouring when the oil reaches the bottom of the threads.
3. Put a drop of oil on your fingertip and wipe it on the rubber gasket. Allow a minute or two for the oil to be absorbed by the filter material then install it on the engine.

---

**Oil Sentry™**

Some engines are equipped with an optional Oil Sentry™ oil pressure switch. If the oil pressure decreases below an acceptable level, the Oil Sentry™ will either shut off the engine or activate a warning signal, depending on the application.

NOTE: Make sure the oil level is checked **BEFORE EACH USE** and is maintained up to the “F” mark on the dipstick. This includes engines equipped with Oil Sentry™.
4. Fill the crankcase to the "F" mark on the dipstick.

5. Test run the engine to check for leaks. Stop the engine, allow a minute for the oil to drain down, and recheck the level on the dipstick. Make sure oil level is up to but not over the "F" mark on the dipstick.

**Oil Pressure**
On models equipped with an oil pressure gauge, oil pressure should range from 40-65 psi at operating speeds above 1800 RPM on a cool engine. On a warm engine it may vary between 30-55 psi.

**NOTE:** Oil pressure may be as low as 10 psi at idle speeds of 1000 RPM when engine is warm.

**Service Precleaner and Air Cleaner Element**
This engine is equipped with a replaceable, high density paper air cleaner element. Some engines are also equipped with an oiled, foam precleaner which surrounds the paper element. See Figure 7.

---

**Figure 7. Air Cleaner Housing Components.**

Check the air cleaner daily or before starting the engine. Check for buildup of dirt and debris around the air cleaner system. Keep this area clean. Also check for loose or damaged components. Replace all bent or damaged air cleaner components.

**NOTE:** Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.

---

**Service Precleaner**
If so equipped, wash and reoil the precleaner every 25 hours of operation (more often under extremely dusty or dirty conditions).

1. Remove wing nut and air cleaner cover.

2. Remove precleaner from paper element. Wash the precleaner in warm water with detergent.

3. Rinse the precleaner thoroughly until all traces of detergent are eliminated. Squeeze out excess water (do not wring). Air dry.

4. Saturate precleaner in clean, fresh engine oil and squeeze out excess oil.

5. Reinstall precleaner over paper element.

6. When precleaner replacement is necessary always use genuine Kohler parts.

---

**Service Paper Element**
Every 50 hours of operation (more often under extremely dusty or dirty conditions), check the paper element. Replace the element as necessary.

1. Remove the precleaner (if so equipped) from the paper element.

2. Do not wash the paper element or use pressurized air, as this will damage the element. Replace a dirty, bent, or damaged element with a genuine Kohler element. Handle new elements carefully; do not use if the sealing surfaces are bent or damaged.

3. With air cleaner disassembled, check the base plate. Make sure it is secured and not bent or damaged. Also check the element cover, seals, and breather tube for damage or improper fit. Replace all damaged components.

**NOTE:** Operating the engine with damaged or loose components could allow unfiltered air into the engine causing premature wear and failure.

4. Reinstall the paper element.

5. If so equipped, install the precleaner (washed and oiled) over paper element.

6. Install air cleaner covcr and wing nut. Tighten wing nut finger tight 1/2 to 1 full turn after nut contacts cover. Do not overtighten.

7. When air cleaner element replacement is necessary always use genuine Kohler parts.
Clean Air Intake/Cooling Areas
To ensure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 50 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed, will cause engine damage due to overheating.

Check Spark Plug
Every 100 hours of operation, remove the spark plug, check its condition, and reset the gap or replace with a new plug as necessary. Use a Champion® type RH10 (or equivalent) spark plug.

1. Before removing the spark plug, clean the area around the base of the plug to keep dirt and debris out of the engine.

2. Remove the plug and check its condition. Replace the plug if worn or reuse is questionable.

NOTE: Do not clean the spark plug in a machine using abrasive grit. Some grit could remain in the spark plug and enter the engine causing extensive wear and damage.

3. Check the gap using a wire feeler gauge. Adjust the gap to 0.025 in. (0.65 mm) by carefully bending the ground electrode. See Figure 8.

4. Reinstall the spark plug into the cylinder head. Torque the spark plug to 18-22 ft. lb. (24-30 N·m).

Battery Charging

⚠️ WARNING: Explosive Gas!
Batteries produce explosive hydrogen gas while being charged. To prevent a fire or explosion, charge batteries only in well ventilated areas. Keep sparks, open flames, and other sources of ignition away from the battery at all times. Keep batteries out of the reach of children. Remove all jewelry when servicing batteries.

Before disconnecting the negative (−) ground cable, make sure all switches are OFF. If ON, a spark will occur at the ground cable terminal which could cause an explosion if hydrogen gas or gasoline vapors are present.

Fuel Filter
Some engines are equipped with an in-line fuel filter. Periodically inspect the filter and replace when dirty. Use a genuine Kohler filter.
Carburetor Troubleshooting and Adjustments

NOTE: Carburetor adjustments should be made only after the engine has warmed up.

Kohler K582 engines are equipped with Kohler adjustable main jet carburetors.

The carburetor is designed to deliver the correct fuel-to-air mixture to the engine under all operating conditions. The main fuel and idle fuel needles on adjustable jet carburetors are set at the factory and normally do not require further adjustment.

Troubleshooting

If engine troubles are experienced that appear to be fuel system related, check the following areas before adjusting the carburetor.

- Make sure the fuel tank is filled with clean, fresh gasoline.
- Make sure the fuel tank cap vent is not blocked and that it is operating properly.
- If the fuel tank is equipped with a shutoff valve, make sure it is open.
- If the engine is equipped with an in-line fuel filter, make sure it is clean and unobstructed. Replace the filter if necessary.
- Make sure fuel is reaching the carburetor. This includes checking the fuel lines and fuel pump for restrictions or faulty components, replace as necessary.
- Make sure the air cleaner element is clean and all air cleaner element components are fastened securely.

If, after checking the items listed above, the engine is hard to start, runs roughly, or stalls at low idle speed, it may be necessary to adjust or service the carburetor.

Kohler Carburetor Adjustment

1. With the engine stopped, turn the low idle fuel adjusting needle in (clockwise) until it bottoms lightly.

NOTE: The tip of the idle fuel and main fuel adjusting needles are tapered to critical dimensions. Damage to the needles and the seats in carburetor body will result if the needles are forced.

2. Preliminary Settings: Turn the adjusting needles out (counterclockwise) from lightly bottomed to the positions shown in the chart.

<table>
<thead>
<tr>
<th></th>
<th>Low Idle</th>
<th>Main Fuel</th>
</tr>
</thead>
<tbody>
<tr>
<td>K582</td>
<td>1-1/4 turns</td>
<td>3 turns</td>
</tr>
</tbody>
</table>

3. Start the engine and run at half throttle for 5 to 10 minutes to warm up. The engine must be warm before making final settings.

4. Main Fuel Needle Setting: Place the throttle into the "fast" position. If possible, place the engine under load.

Turn the main fuel adjusting needle out (counterclockwise) from the preliminary setting until the engine speed decreases (rich). Note the position of the needle.

Now turn the adjusting needle in (clockwise). The engine speed may increase, then it will decrease as the needle is turned in (lean). Note the position of the needle.

Set the adjusting needle midway between the rich and lean settings.

5. Low Idle Speed Setting: Place the throttle control into the "idle" or "slow" position. Set the low idle speed to 1200 RPM* (± 75 RPM) by turning the low idle speed adjusting screw in or out. Check the speed using a tachometer.

*NOTE: The actual low idle speed depends on the application - refer to equipment manufacturer's recommendations. The recommended low idle speed for basic engines is 1200 RPM. To ensure best results when setting the low idle fuel needle, the low idle speed must not exceed 1500 RPM.
6. **Low Idle Fuel Needle Setting:** Place the throttle into the "idle" or "slow" position.

Turn the low idle fuel adjusting needle **out** (counterclockwise) from the preliminary setting until the engine speed decreases (rich). Note the position of the needle.

Now turn the adjusting needle **in** (clockwise). The engine speed may increase, then it will decrease as the needle is turned in (lean). Note the position of the needle.

Set the adjusting needle **midway** between the rich and lean settings.

![Figure 9.](image)

7. **Recheck the idle speed using a tachometer.** Readjust the speed as necessary.

**Troubleshooting**

When troubles occur, be sure to check the simple causes which, at first, may seem to obvious to be considered. For example, a starting problem could be caused by an empty fuel tank. Some common causes of engine troubles are listed in the following table. Do not attempt to service or replace major engine components, or any items that require special timing or adjustment procedures. Have your Kohler Engine Service Dealer do this work.

<table>
<thead>
<tr>
<th>Possible Problem</th>
<th>No Fuel</th>
<th>Improper Fuel</th>
<th>Dirt in Fuel Line</th>
<th>Dirty Grass Screen</th>
<th>Incorrect Oil Level</th>
<th>Engine Overloaded</th>
<th>Dirty Air Cleaner</th>
<th>Faulty Spark Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Start</td>
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<td>Hard Starting</td>
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<td>Lacks Power</td>
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<td>Operates Erratically</td>
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<td>Knocks or Pings</td>
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<tr>
<td>Skips or Misfires</td>
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<td>Backfires</td>
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<tr>
<td>Overheats</td>
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<tr>
<td>High Fuel Consumption</td>
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</tbody>
</table>

**Storage**

If the engine will be out of service for two months or more, use the following storage procedure:

1. Clean the exterior surfaces of the engine.
2. Change the oil and filter while the engine is still warm from operation. See "Change Oil and Oil Filter" on page 8.
3. The fuel system must be completely emptied. If the gasoline must be treated with a stabilizer to prevent deterioration. If you choose to use a stabilizer, follow the manufacturers recommendations, and add the correct amount for the capacity of the fuel system. Fill the fuel tank with clean, fresh gasoline. Run the engine for 2-3 minutes to get stabilized fuel into the carburetor.
4. Remove the spark plugs. Add one tablespoon of engine oil into each spark plug hole. Install plugs, but do not connect the plug leads. Crank the engine two or three revolutions.
5. Remove the spark plugs. Cover one spark plug hole with your thumb, and turn the engine over until the piston is at the top of its stroke. Repeat on other side. Reinstall the plugs, but do not connect the plug leads.
6. Store the engine in a clean, dry place.
Parts Ordering
The engine Specification, Model, and Serial Numbers are required when ordering replacement parts from your Kohler Engine Service Dealer. These numbers are found on the identification plate which is affixed to the engine shrouding. Include letter suffixes if there are any. See “Engine Identification Numbers” on page 5.

Always insist on genuine Kohler parts. All genuine Kohler parts meet strict standards for fit, reliability, and performance.

Major Repair
Major repair information is available in Kohler Engine Service Manuals. However, major repair generally requires the attention of a trained mechanic and the use of special tools and equipment. Your Kohler Engine Service Dealer has the facilities, training, and genuine Kohler replacement parts necessary to perform this service. For Sales & Service assistance call 1-800-544-2444 (U.S. & Canada) or contact your Kohler Engine Dealer or Service Distributor, he’s in the Yellow Pages under Engines-Gasoline.

Model Designation
Model K582S for example: K indicates K-Series, 58 indicates the approximate cubic inch displacement, 2 indicates the number of cylinders. Letter suffixes following the model numbers designates a specific version, as follows:

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Designates</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP</td>
<td>Generator Set</td>
</tr>
<tr>
<td>Q</td>
<td>Quiet Model</td>
</tr>
<tr>
<td>S</td>
<td>Electric Start</td>
</tr>
</tbody>
</table>

Specifications
Model: ................................................................................................................................... K582
Bore: ................................................. inches (millimeters) ................................................... 3.50 (88.9)
Stroke: ................................................ inches (millimeters) ................................................... 3.00 (76.2)
Displacement: .............. cubic inches (cubic centimeters) ................................................... 57.7 (946)
Power (@3600 RPM): ................. horsepower (kilowatts) ................................................... 23 (17.1)
Weight*: ..................................................... Ibs. (kilograms) ................................................... 187 (85.0)
Oil Capacity: ......................................... U.S. pints (liters) ................................................... 0 (3.0)1
Spark Plug Gap: ......................... inches (millimeters) ................................................... 0.025 (0.65)*
Spark Plug Size: ............................... millimeters ................................................... 14
Spark Plug Type: .................................................................................................................. Champion RHI 0 or equivalent
Breaker Point Gap (Nominal) ........... inches (millimeters) ................................................... 0.020 (0.508)3

1An additional pint (0.5 L) required when oil filter is changed. For best results, fill to “F” mark on dipstick as opposed to adding a given quantity of oil.
2Gaseous fueled engines – gap .018 in. (0.45 mm).
3After setting point gap, start engine and check timing using a timing light – adjust governor accordingly.
LIMITED 1 YEAR ENGINE WARRANTY

We warrant to the original consumer that each new engine sold by us will be free from manufacturing defects in materials or workmanship in normal service for a period of one (1) year from date of purchase, provided it is operated and maintained in accordance with Kohler Co.’s instructions and manuals.

Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Kohler Co., Kohler, Wisconsin 53044, or at a service facility designated by us, of such part or parts as inspection shall disclose to have been defective.

EXCLUSIONS:
This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

The following items are not covered by this warranty:

Engine accessories, such as fuel tanks, clutches, transmissions, power drive assemblies, and batteries, unless supplied or installed by Kohler Co. These are subject to the warranties, if any, of their manufacturers.

WE SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to labor costs or transportation charges in connection with the replacement or repair of defective parts.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is anyone authorized to make any in our behalf.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE:
Purchaser must bring the engine to an authorized Kohler service facility. For the facility nearest you, consult your Yellow Pages or write Kohler Co., Attn: Engine Warranty Service Dept., Kohler, Wisconsin, 53044.

ENGINE DIVISION, KOHLER CO. , KOHLER, WISCONSIN 53044