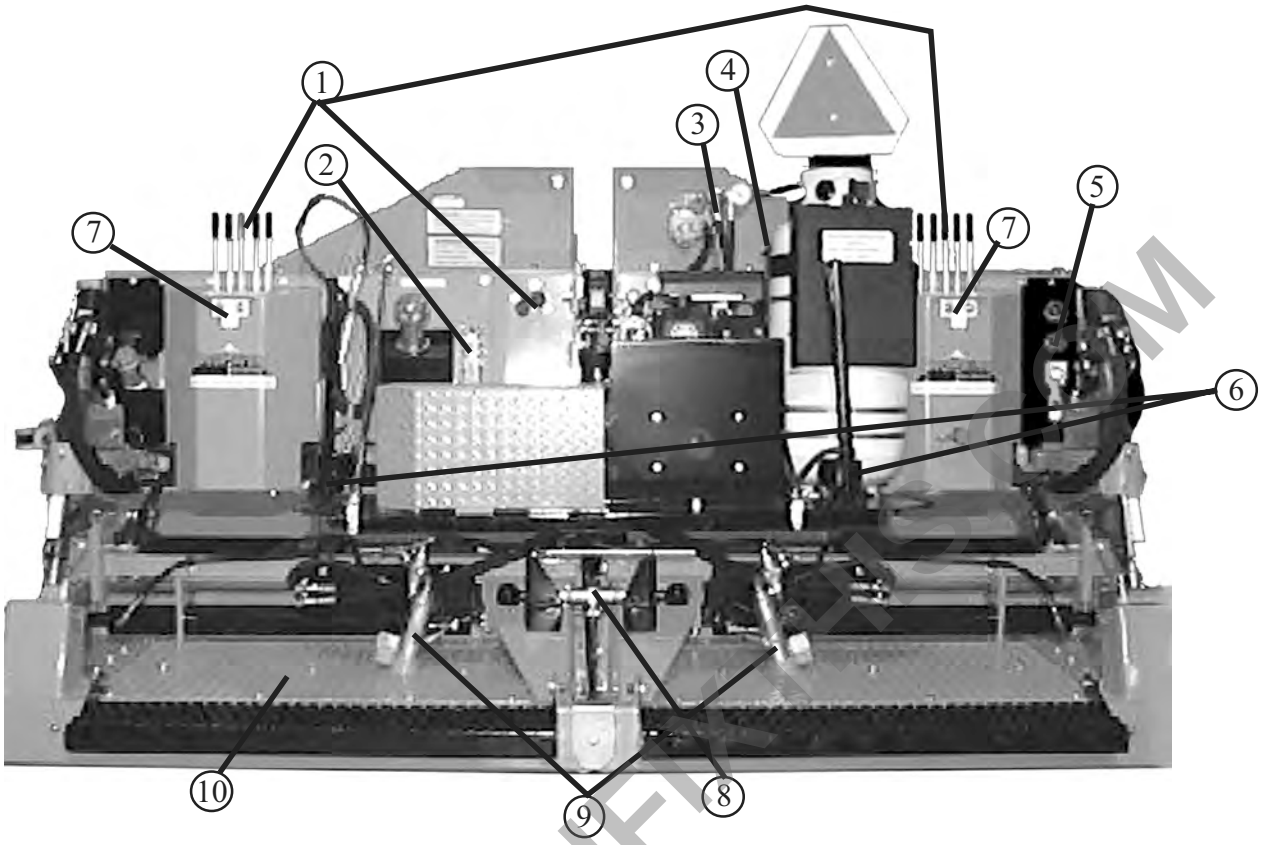
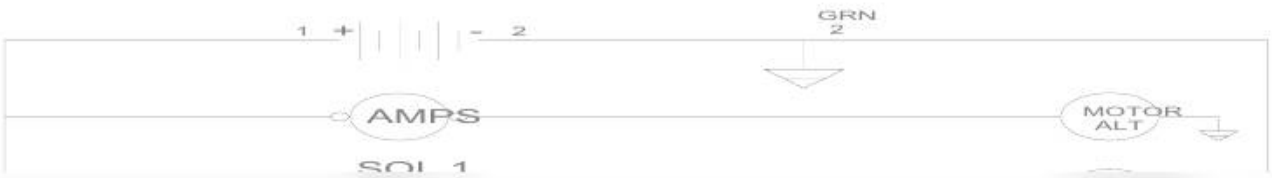


Item	Qty.	Description	Pg.#
1	2	Operation Control Valves	14
	1	400 Gate Control	14
2	1	Sight Temperature Gauge	15
3	1	Propane Fuel System	15
4	1	Engine Throttle	15
5	1	Control Panel	16
6	2	Hand Pump	17
7	2	Auger Controls	17
8	1	Screed Crown Adjustment	18
9	2	Screed Burners	18
10	1	Operators Platform	

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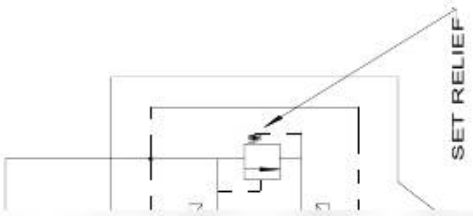
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Maintenance Instructions

WARNING: Accidental Starts!

Before servicing the engine or equipment, always disconnect the spark plug leads to prevent the engine from starting accidentally. Ground the leads 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.

Frequency	Maintenance Required
Daily or Before Starting Engine	• Fill fuel tank. • Check oil level. • Check air cleaner for dirty[1], loose, or damaged parts. • Check air intake and cooling areas, clean as necessary[1].
Every 25 Hours	• Service precleaner element[1].
Every 100 Hours	• Replace air cleaner element[1]. • Change oil. • Remove cooling shrouds and clean cooling areas[1]. • Check oil cooler fins, clean as necessary (if equipped).
Every 200 Hours	• Check spark plug condition and gap. • Change oil filter.
Annually or Every 500 Hours	• Have UTE bendix starter drive serviced[2]. • Have solenoid shift starter disassembled and cleaned[2].

[1]Perform these maintenance procedures more frequently under extremely dusty, dirty conditions.
[2]Have a Kohler Engine Service Dealer perform this service.

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, debris, etc., out of the engine, clean the area around the dipstick before removing it.
3. Remove the dipstick; wipe oil off. Reinsert the dipstick into the tube and press all the way down.
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.

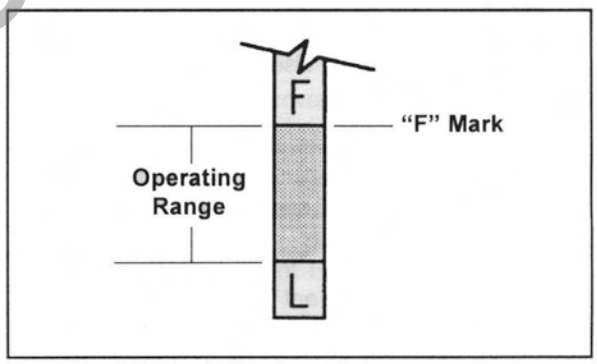


Figure 6. Oil Level Dipstick.

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.

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Specifications

Model:	CH18	CH20	CH22	CH25
Bore: inches (millimeters)	3.03 (77)	3.03 (77)	3.03 (77)	3.27 (83)
Stroke: inches (millimeters)	2.64 (67)	2.64 (67)	2.64 (67)	2.64 (67)
Displacement: cubic inches (cubic centimeters)	38.1 (624)	38.1 (624)	38.1 (624)	44.0 (725)
Power (@3600 RPM): horsepower (kilowatts)	18* (13.4)	20* (14.9)	22* (16.4)	25* (18.4)

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General Safety Instructions

One of the primary considerations in designing and manufacturing this ProPaver by BOMAG was to make the machine and the operation of same as safe as possible. Shielding, simple adjustments and other safety features were built into the Paver wherever possible.



All machinery should be operated and serviced only by responsible persons who have been properly instructed and delegated to do so. Read and thoroughly understand all instructions contained in this manual, the engine manual, and all optional equipment manuals before attempting to operate or service the paver.

1) Only the operators should be allowed on the operator's platform when the paver is in operation.

2) Clothing worn by all persons working close to the paver should be fairly tight and belted. Loose jackets, shirts or pants should never be worn because of the danger of getting caught in moving parts.

3) Be sure all shields and guards are in place and in good condition before starting the machine.

4) Always mount and dismount the paver from the rear, using the walkway, steps and handrails provided. Never dismount paver to the side, or forward.

5) Assure that all hands and feet are clear of moving parts before starting paver.

6) Make sure everyone is clear of the paver before starting so they cannot be struck by or caught in moving parts.

7) Never attempt to tow or move the ProPaver before first engaging the tow hitch arms, the machine could possibly overturn.

8) Keep the operator's platform clean, Do not use it as a place to carry loose tools, lunch boxes, etc.

9) Refuel the paver only when the engine has been shut off. Do not permit sparks, open flames or smoking within 50 feet of paver when refueling. Never refuel paver with screed heaters lit and operating.

10) Never allow horseplay near the paver when it is in operation or being serviced.

Safety is no accident - Take time to be safe!!!!

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WARNING: Do not attempt to operate the Paving Machine before thoroughly reading, comprehending, and following the instructions in the operator's manual. Serious injury or death may occur!

This tow type paver was carefully designed and manufactured to provide the utmost in dependable service. To obtain the best results and keep it operating efficiently, readand follow the instructions in the operator's manual.



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This new machine has been factory tested, lubricated, and initial settings and adjustments carefully made. However, it is recommended that a thorough inspection of the entire machine be made prior to starting , to correct ant problems which may have occurred during transit.

The information contained in the Operator's Manual should enable experienced paving personnel to operate and maintain this unit. The sequence and detail of operating and servicing instructions are presented to assist an adequately trained equipment operator in performing paving and maintenance tasks.

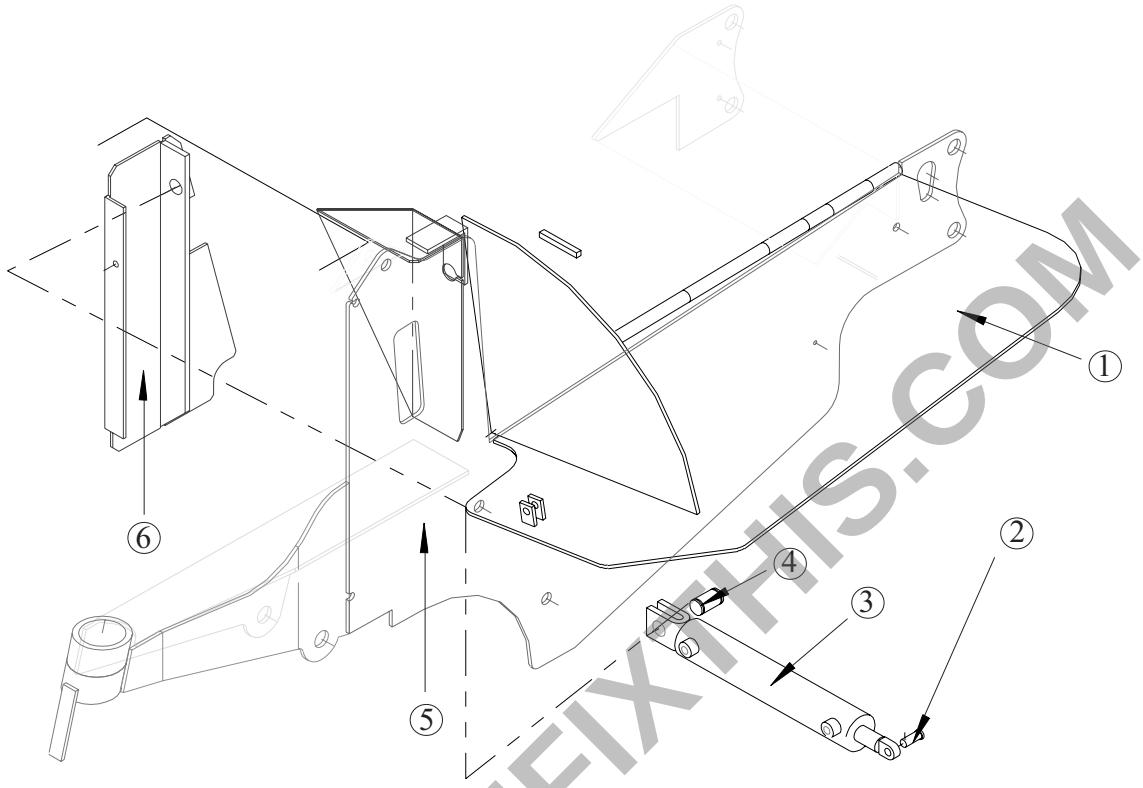
The specifications, descriptive information, operating, and servicing instructions contained in this manual were adequate and accurate at the time of approval for printing. Improvement of the product is a constant goal at BOMAG Paving Products, so we reserve the right to make changes at any timewithout notice and without incurring any obligation. BOMAG Paving Products is vitally interested in yoursatisfaction and we are anxious to help you with all of your maintenance and service needs.

Record the serial number of both the paver and engine in the space provided below. Your dealer needs this information to give you prompt, efficient service when you order parts or optional equipment.

Paver Model Number_____**Serial Number**_____
Engine Make_____**Model**_____**Serial Number**
Optional Equipment _____
_____
_____
Date _____

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Item	Qty.	Description	Part #	Pg.#
1	1	413 Wing RH	9985411	
	1	413 Wing LH (Not Shown)	9985412	
	2	413 Wing Pin (Not Shown)		
2	1	Clevis Pin 1/2"x 1"	7636400	
3	1	Wing Cylinder	3220340	
4	1	Cylinder Pin 1"	7636470	
5	1	413 Hopper Weldment	9980400	
6	1	Bulkhead Weld RH	9150413	
	1	Bulkhead Weld LH (Not Shown)	9150414	

Note: Right and Left Assemblies are identical.

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9. Start the engine and check for oil leaks. Correct any leaks before placing the engine into service. Check oil level to be sure it is up to but not over the "F" mark.

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 Figures 8 and 9.

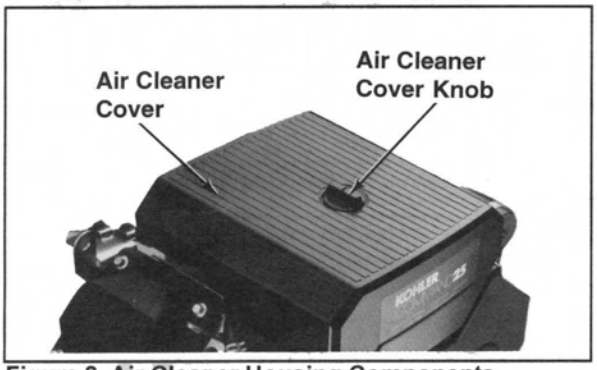


Figure 8. Air Cleaner Housing Components.

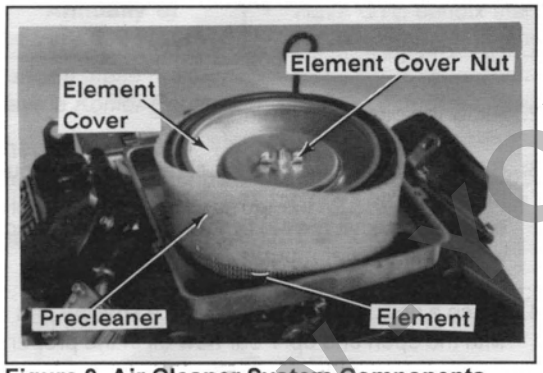


Figure 9. Air Cleaner System Components.

Check the air cleaner **daily or before starting the engine.** Check for a 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. Unhook the latches located on either side of the air cleaner cover or loosen the cover retaining knob and remove the cover.
2. Remove the precleaner from the paper element.
3. Wash the precleaner in warm water with detergent. Rinse the precleaner thoroughly until all traces of detergent are eliminated. Squeeze out excess water (do not wring). Allow the precleaner to air dry.
4. Saturate the precleaner with new engine oil. Squeeze out all excess oil.
5. Reinstall the precleaner over the paper element.
6. Reinstall the air cleaner cover. Secure cover with the two latches or the cover retaining knob.
7. When precleaner replacement is necessary order genuine Kohler parts.

CH18-CH22	CH25
24 083 02	24 083 05

Service Paper Element

Every **100 hours** of operation (more often under extremely dusty or dirty conditions) replace the paper element.

1. Loosen the cover retaining knob and remove the cover.
2. Remove the precleaner (if so equipped) from the paper element.
3. Remove the element cover nut, element cover, and paper element.
4. 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.
5. When servicing the air cleaner, check the air cleaner base. Make sure it is secured and not bent or damaged. Also check the element cover for damage or improper fit. Replace all damaged air cleaner components.

   NOTE: Before air cleaner reassembly make sure rubber seal is in position around stud. Inspect, making sure it is not damaged and seals with the element cover.
6. Reinstall the paper element, precleaner, element cover, element cover nut, and air cleaner cover. Secure cover with the cover retaining knob.

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SERVICING YOUR HONDA ENGINE

FUEL RECOMMENDATIONS

Use LPG with a propane content of 95% or higher.

This engine is certified to operate on LPG only.

Occasionally you may hear a light "spark knock" or "pinging" (metallic rapping noise) while operating under heavy loads. This is no cause for concern.

If spark knock or pinging occurs at a steady engine speed, under normal load, change brands of LPG. If spark knock or pinging persists, see an authorized Honda servicing dealer.

NOTICE

Running the engine with persistent spark knock or pinging can cause engine damage.

Running the engine with persistent spark knock or pinging is misuse, and the Distributor's Limited Warranty does not cover parts damaged by misuse.

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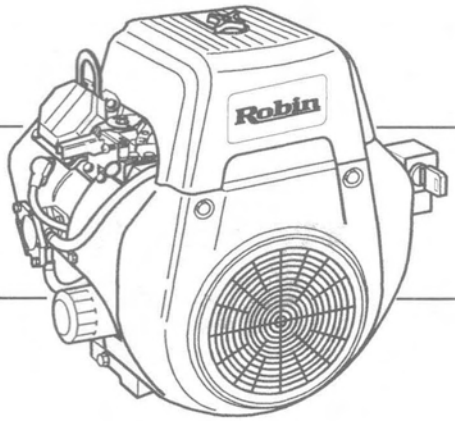
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MODEL

EH63D
EH64D
EH65D

INSTRUCTIONS FOR USE

FOR EMISSION CERTIFIED ENGINE



ISSUE EMD-EU1526

2ZZ9020075

Robin Engines

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