



Petrol Compactor 1.5kw with Wheel Kit 50kg - CCX100

Petrol Plate Compactor 61kg with Wheel Kit - CCX200

MODEL NUMBERS: **CCX100 CCX200**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual



Wear eye protection



Wear ear protection



Wear protective clothing



Wear safety footwear



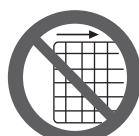
Wear safety gloves



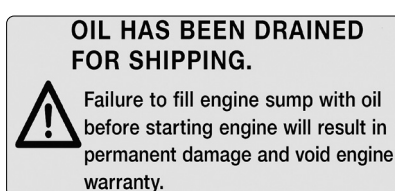
No open flame



Do not touch hot surfaces



Do not tamper with safety devices



Keep bystanders away



Warning crushing of hands

1. SAFETY

1.1. GENERAL SAFETY

- ✓ Review the instructions provided with the equipment powered by this engine for any additional safety precautions that should be observed in conjunction with engine startup, shutdown and operation.
- ✓ Know how to stop the engine quickly, and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.
- ❑ **WARNING!** Stop the engine before performing any maintenance.
- ❑ **WARNING! DO NOT operate** if damaged. Replace or repair using recommended parts only. Unauthorised parts may be dangerous and will invalidate your warranty. Use authorised Service agent only.
- ✓ Keep the engine in good condition. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the engine's operation. Regular maintenance will give the best and safest performance. Wear safety goggles, ear protection, adequate protective clothing, and safety footwear.
- ✓ Keep all persons and animals at a safe distance from the working area.
- ✗ **DO NOT** allow children or untrained persons to operate the engine.
- ✗ **DO NOT** use the engine if you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc. are securely tightened.
- ✗ **DO NOT** use if the engine switch does not turn it on or off. Any petrol powered machine that cannot be controlled with the engine switch is dangerous and must be replaced.
- ✓ **CHECK** that any keys, adjusting wrenches or other tools are removed from machine area before starting it. A tool that is left attached to a rotating part of the machine may result in personal injury.
- ✓ **STAY ALERT**, watch what you are doing and use common sense when operating the machine.
- ❑ **WARNING! HOT EXHAUST.**
- ✓ The exhaust becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the exhaust while it is hot. Let the engine cool before storing it indoors.
- ✓ To prevent fire hazards and to provide adequate ventilation for stationary equipment applications, keep the engine at least (1 meter) away from building walls and other equipment during operation. **DO NOT** place flammable objects close to the engine.
- ❑ **WARNING!** Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odourless and deadly gas. Operate this unit only in a well ventilated outdoor area.

1.2. FUEL AND ENGINE SAFETY

- ❑ **WARNING!** Fuel is highly flammable, and its vapours can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.
- ❑ **WARNING!** Check the engine oil level before each start-up. Only use an approved oil and never operate the engine with insufficient oil.
- ❑ **WARNING! DO NOT** touch spark plug or plug lead whilst the engine is running; severe, potentially fatal, electric shock may result.
- ✓ Ensure that only the correct fuel type and grade is used.
- ✗ **DO NOT** check ignition system by removing the spark plug or spark plug lead. Use specific tester or contact service agent.
- ✗ **DO NOT** operate the engine in an enclosed area as the motor exhaust fumes are a health hazard.
- ✗ **DO NOT** leave the engine unattended whilst operating, and **DO NOT** remove the fuel cap whilst the engine is running.
- ✗ **DO NOT** refuel the engine whilst it is running. Stop the engine and allow it to cool before attempting to refuel.
- ✗ **DO NOT** refuel in a closed or poorly ventilated environment as there is a danger of explosion or fire. Refuel outdoors.

- x **DO NOT** smoke or place the compactor near any naked flames whilst re-fuelling.
- x **DO NOT** operate compactor if there is a fuel leak. Move the unit and avoid using until the leak has been fixed and the machine is dry.
- x **DO NOT** start the engine if there are any flammable materials near the exhaust system or in the path of the exhaust gases.
- x **DO NOT** block the engine ventilation grilles.
- ✓ Ensure fuel is stored in an approved container.
- ✓ Store fuel in a cool, well-ventilated area, safely away from sparks, open flames or other sources of ignition.
- ✓ For long term storage ensure the fuel is drained and that the compactor is adequately protected against frost.
- x **DO NOT** operate the engine with either the exhaust or air filter removed.
- x **DO NOT** touch the engine during or after use. To avoid burns allow it to cool before handling.
- ✓ Always loosen the fuel tank cap slowly to release any built-up pressure.
- x **DO NOT** overfill fuel tank (there should be no fuel above the upper limit mark).
- x **DO NOT** use the machine if the engine's switch does not turn it on or off. Any petrol powered machine that can not be controlled with the engine switch is dangerous and must be replaced.
- ✓ Replace all fuel tank and container caps securely and wipe up spilt fuel. Never operate the unit without the fuel cap securely in place.
- ✓ Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc. are securely tightened.
- ✓ Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.
- ✓ Check that keys and adjusting wrenches are removed from machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.
- ✓ Stay alert, watch what you are doing and use common sense when operating the machine.
- x **DO NOT** overreach.
- x **DO NOT** operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

MACHINE USE AND CARE

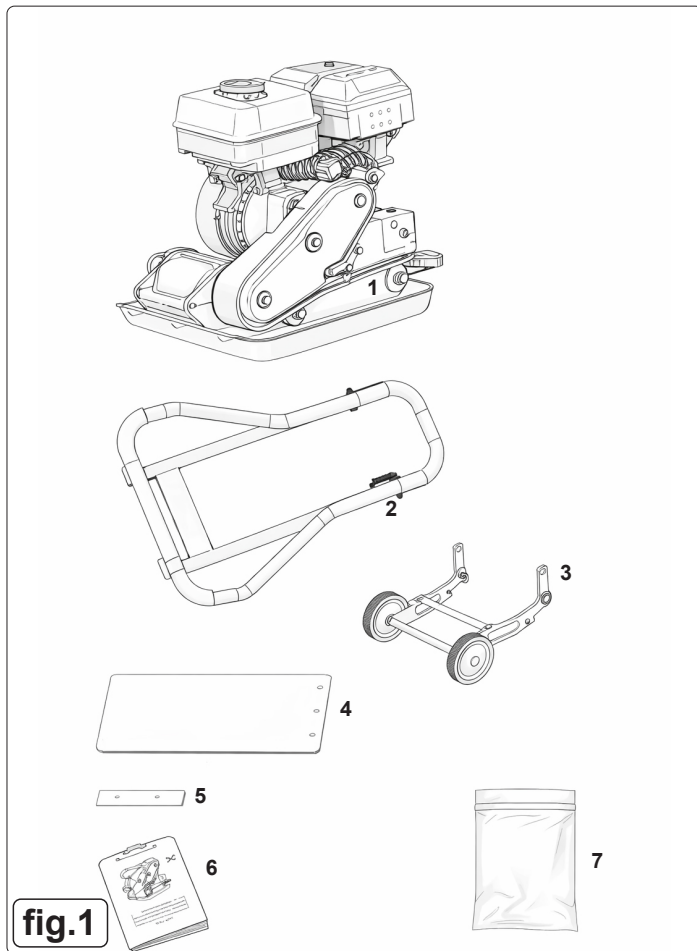
- x **DO NOT** pick up or carry a machine while the engine is running.
- x **DO NOT** force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.
- x **DO NOT** change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
- x **DO NOT** run the engine at a high speed when you are not pounding.
- x **DO NOT** pick up or carry a machine while the engine is running.
- x **DO NOT** force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.
- x **DO NOT** change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
- x **DO NOT** run the engine at a high speed when you are not pounding.
- ✓ Store idle machine out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate it. Machine is dangerous in the hands of untrained users.

1.3. PERSONAL SAFETY

- ✓ To avoid injury, keep hands, fingers and feet away from the base plate. Grip the handle of the plate compactor firmly with both hands.
 - ✓ If both hands are holding the handle and your feet are clear of the compactor base, your hands, fingers and feet can not be injured by the compactor base.
 - ✓ Always operate the machine from behind, never pass or stand in front of the machine when the engine is running.
 - x **DO NOT** place tools or any other item under the plate compactor.
 - ✓ If the unit strikes a foreign object, stop the engine, disconnect the spark plug, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
 - x **DO NOT** overload the machine capacity by compacting too deep in a single pass or at too fast a rate.
 - x **DO NOT** allow anyone to enter the danger zone surrounding the compactor while it is running, as the machine's vibration, movement, and noise can prevent the operator from reacting to hazards in time.
 - x **DO NOT** operate the unit at high transport speeds on hard or slippery surfaces.
 - x Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. **DO NOT** carry passengers.
 - x **DO NOT** leave the operating position and leave the plate compactor unattended when the engine is running.
 - ✓ Always stop the engine when compacting is delayed or when walking from one location to another.
 - ✓ Stay away from the edge of ditches and avoid actions that may cause the plate compactor to topple over.
 - ✓ Always ascend slopes carefully, in a direct path and in reverse to prevent the plate compactor from toppling over onto the operator.
 - ✓ Always park the unit on a firm and level surface and shut the tool off.
 - ✓ To reduce exposure to vibration, limit the hours of operation and take periodic breaks to minimise repetition and rest your hand.
 - ✓ Reduce the speed and force in which you do the repetitive movement. Try to fill each day with jobs where operating hand-held power equipment is not required.
 - ✓ Ensure the compactor is operated on level, stable ground, as its centre of gravity is designed to remain low for stability but can shift during movement, lifting, or when using the wheel kit.
 - ✓ Improper handling can cause loss of control or injury. Ensure stable footing, proper grip, and a clear operating zone at all times.
 - ✓ Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you operate the engine.
 - ✓ To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames away from all fuel related parts.
- NOTE:** Residual risks that cannot be engineered out remain during operation.
- The CCX100 Petrol Compactor is designed for efficient soil and asphalt compaction in small to medium-scale projects.
- The CCX200 Petrol Plate Compactor provides powerful compaction performance for construction and landscaping applications.

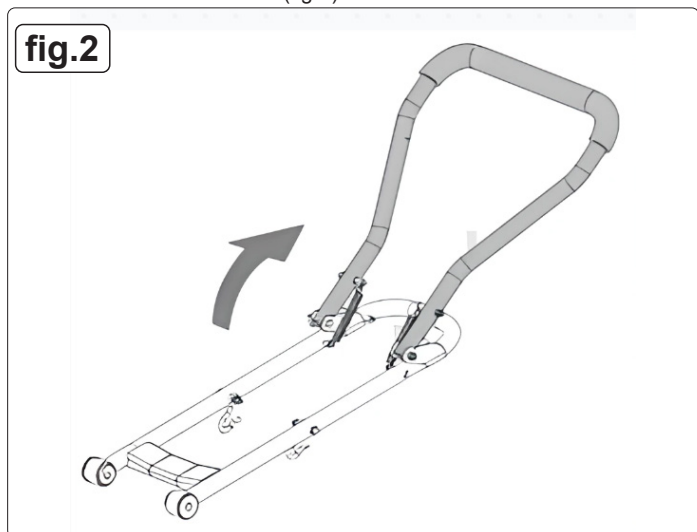
2. CONTENTS

- 2.1. The plate compactor comes partially assembled and is shipped in carefully packed carton. After all the parts have been removed from the carton, you should have:
- Plate Compactor Chassis with Engine and Transmission
 - Handle
 - Foldings Wheels Kit
 - Paving Pad
 - Clamp Plate
 - Operator's Manual
 - Hardware Bag



3. ASSEMBLY

Unfold the handle as shown (fig.2).

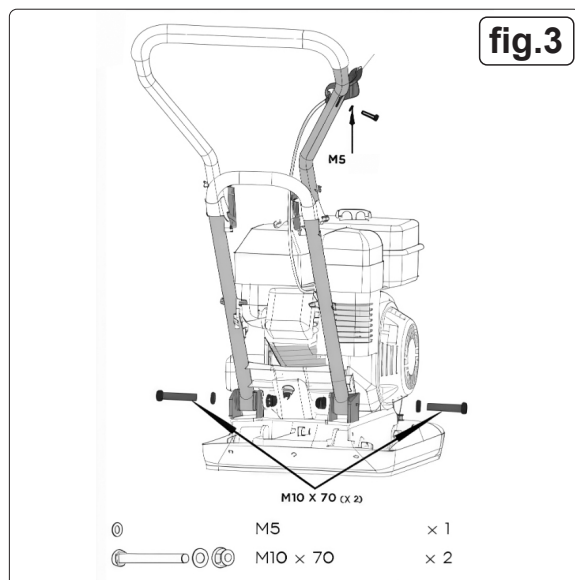


- 3.1. Mount the Handle as shown. Make the Handle Ends slot into the channels provided by the Engine Deck. Place flat washers 10, followed by hex bolts M10x70 at the outer side, and tighten with lock nuts M10 at the inner side (fig.3).

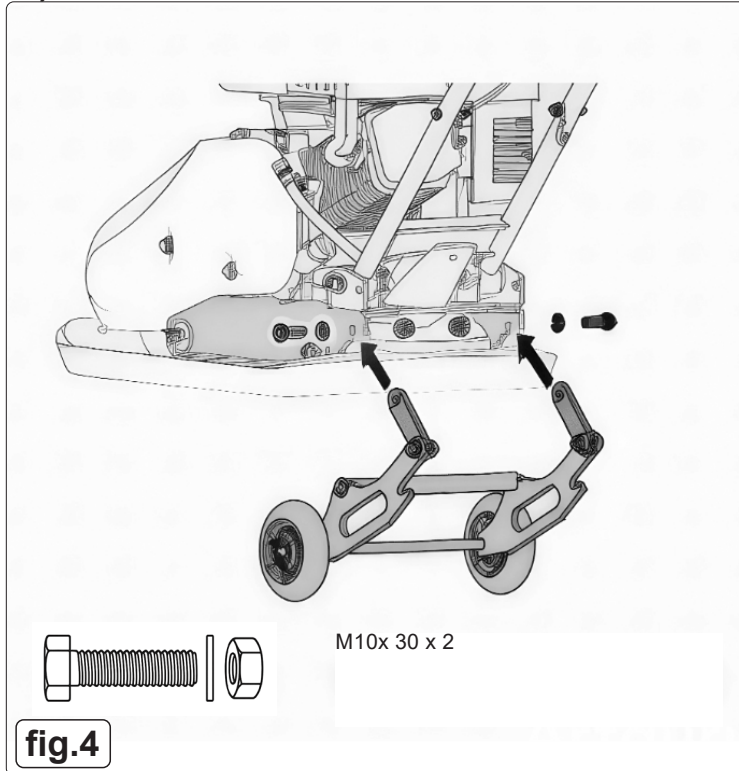
CCX100



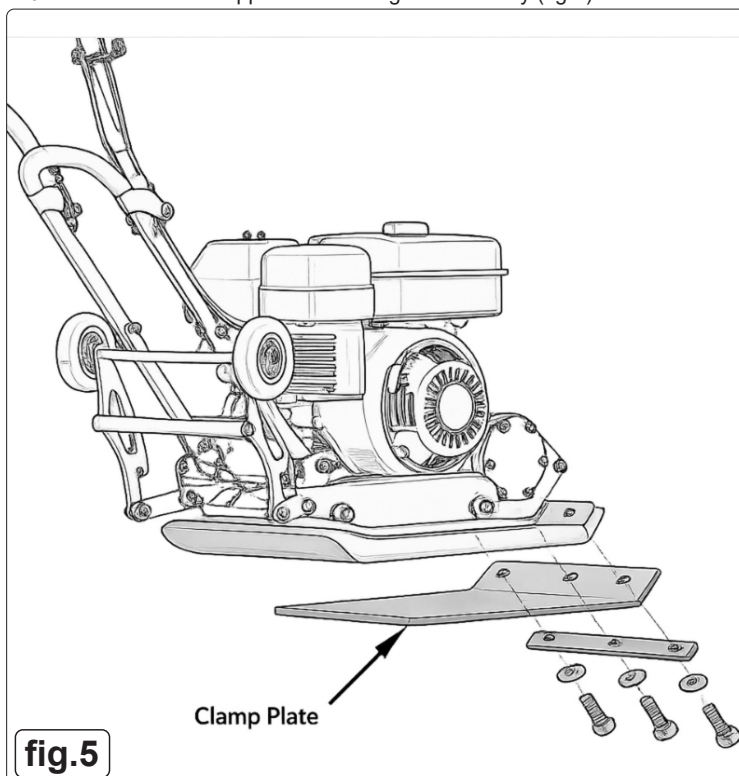
CCX200



- 3.2. Unscrew bolt 5x35 from throttle control. Secure the Throttle Control onto the Upper Handle with a flat washer 5 and the bolt 5X35 that just were unscrewed. Fasten the Throttle Control cable with cable fasteners (fig.3)



- 3.3. Align the holes in the Link Plates with those in the Engine Deck. Insert the M10×30 bolts through the holes from one side, then fit the M10 lock nuts onto the opposite ends. Tighten securely (fig.4).



- 3.4. Attach the Paving Pad onto the Base Plate as shown. Align the holes in the Base Plate, Paving Pad and Clamp Plates, and secure it with bolts and lock washers (fig.5).
- 3.5. **ADD OIL TO ENGINE PACKED SEPARATELY WITH YOUR COMPACTOR.**
- 3.6. **ENGINE OIL**
- 3.6.1. Before use, fill the engine with the supplied oil. The engine is shipped dry and contains no pre-installed oil.

4. SPECIFICATION

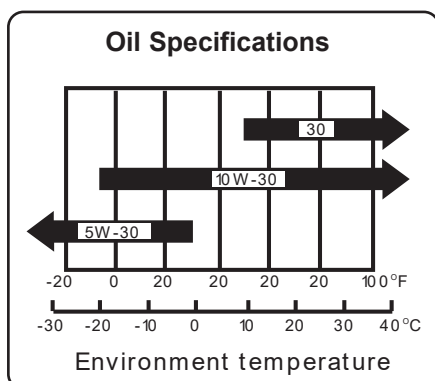
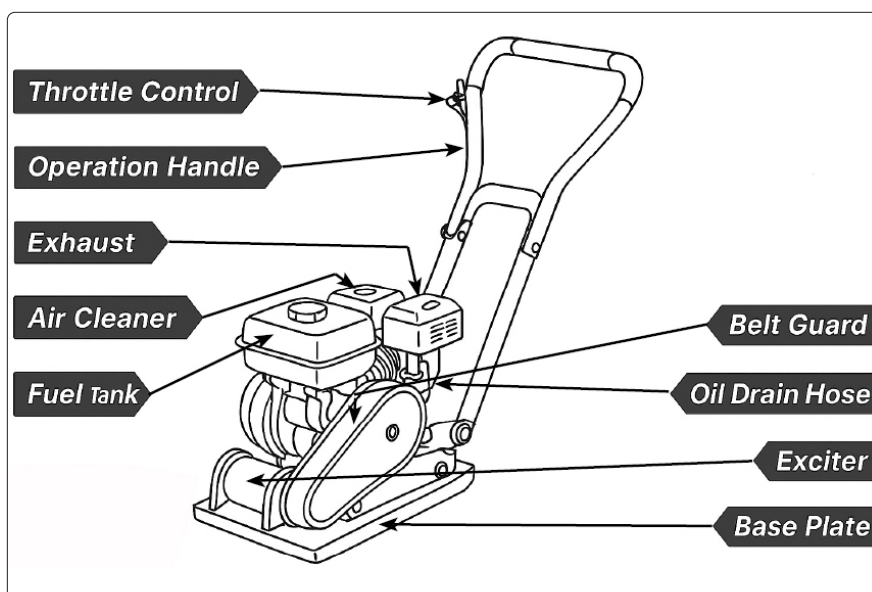
Model	CCX100 / CCX200
Type	Single cylinder, Air-Cooled 4-stroke OHV
Engine power	1.5kw, 79cc / 4.85kw, 196cc
Force	8200N / 11000N
Motor	LC152F-1 / Loncin G200F
Nett Weight	47.5kg / 57.2
Plate Size	495 X 320mm / 530 x 370mm
Exciter Speed	5900 vpm / 5500 vpm
Sound power level	105 dB(A) / 106 dB(A)

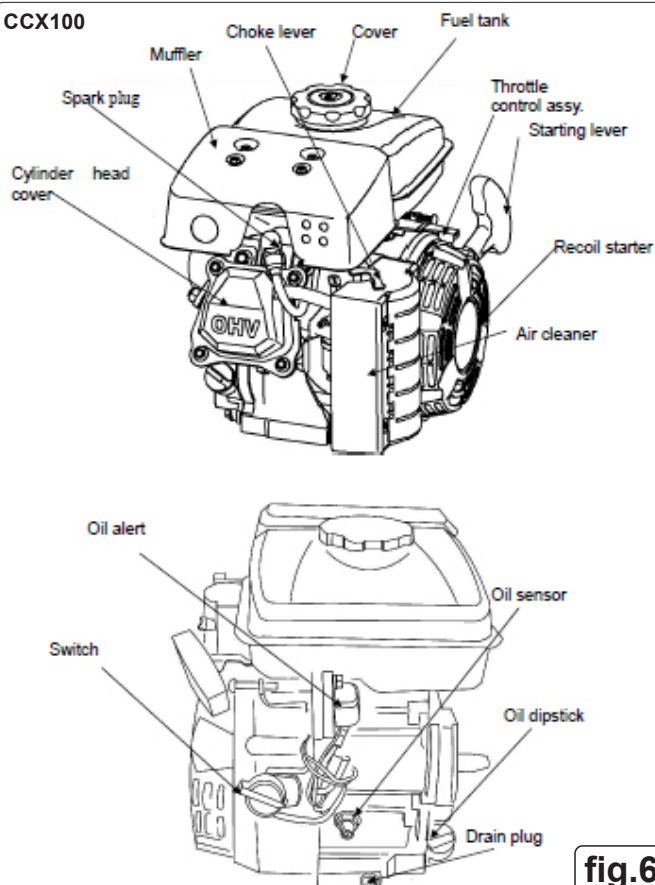
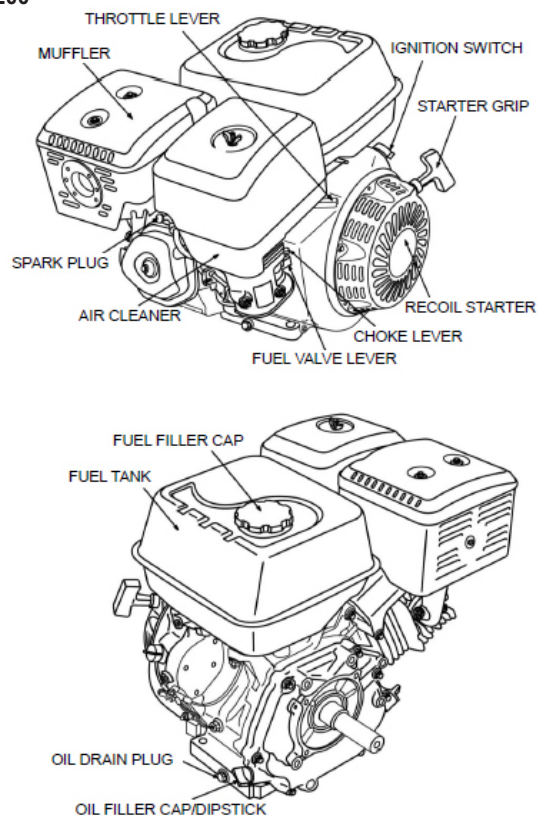
The power rating of the engine indicated is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (Net Power) and at 2,800 rpm (Max. Net Torque). Mass production engines may vary from this value.

Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

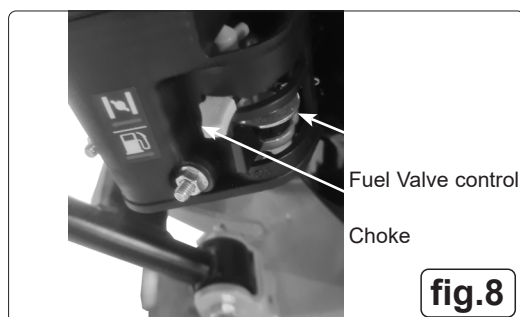
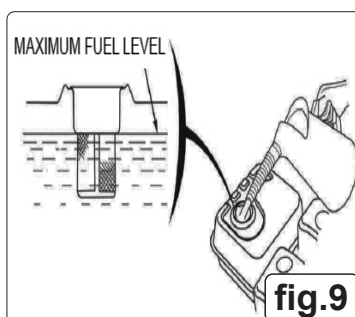
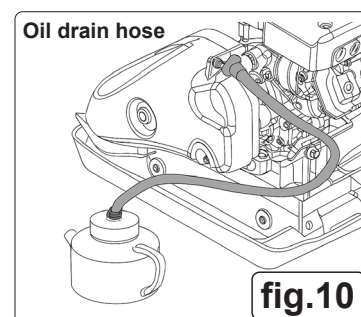
Engine Oil	Type	SAE 10W-30, API SE or SF, for general use
	Capacity	0.35 L
Spark Plug	Type	ETRTC or other equivalents.
	Gap	0.028-0.031 in (0.70 mm-0.80 mm)
Carburettor	Idle Speed	2000 rpm±150 rpm
Maintenance	Each use	Check engine oil. Check air filter.
	First 20 hours	Change engine oil.
	Subsequent	Refer to maintenance schedule
Uncertainty (k) CCX100 / CCX200		2.5 m/s ²
Vibration value (a) CCX100		17.5 m/s ²
Vibration value (a) CCX200		10.8 m/s ²

5. FEATURES AND CONTROLS



CCX100**fig.6****CCX200****fig.7****5.1. FUEL VALVE CONTROL (ONLY ON CX200)**

- 5.1.1. The fuel valve opens and closes the passage between the fuel tank and the carburettor. The fuel valve lever must be in the ON position for the engine to run. When the engine is not in use, leave the fuel valve lever in the OFF position to prevent carburettor flooding and to reduce the possibility of fuel leakage (fig.8).

**fig.8****fig.9****fig.10****5.2. THROTTLE CONTROL**

- 5.2.1. Engine speed is regulated by the throttle lever. Adjusting the lever makes the engine run faster or slower.

5.3. ENGINE SWITCH (fig.6 and fig.7)

- 5.3.1. The engine switch enables and disables the ignition system. The engine switch must be in the ON position for the engine to run. Turning the engine switch to the OFF position stops the engine.

5.4. CHOKE LEVER (see fig.6 and fig.7)

- 5.4.1. The choke lever opens and closes the choke valve in the carburettor. The closed position enriches the fuel mixture for starting a cold engine. The open position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.

5.5. RECOIL STARTER GRIP/ LEVER (see fig.6 and fig.7)

- 5.5.1. Pulling the starter grip operates the recoil starter to crank the engine.

☐ **WARNING!** Guide the pull cord back—don't release it suddenly.

5.6. OIL DRAIN HOSE

- 5.6.1. Running the engine with dirty oil can cause premature engine wear and failure. Changing oil regularly is extremely important. The flexible oil drain hose is equipped to drain oil into appropriate receptacle (fig.10).

5.7. EXCITER

- 5.7.1. The eccentric shaft contained within exciter housing is driven at high speed by a clutch and belt drive system. This high speed shaft revolution causes the rapid lifting and downward ramming motion of the machine as well as imparting a forward motion.

6. OPERATION

6.1. CHECK OIL LEVEL use the correct grade in Specifications and see Maintenance for location.

6.2. ADDING FUEL

6.2.1. Fill the fuel tank using the correct type of fuel recommended for this plate compactor. Always refuel with the engine switched off and in a well-ventilated area. Avoid overfilling and immediately wipe away any spilled fuel (fig.9).

6.3. STARTING THE ENGINE

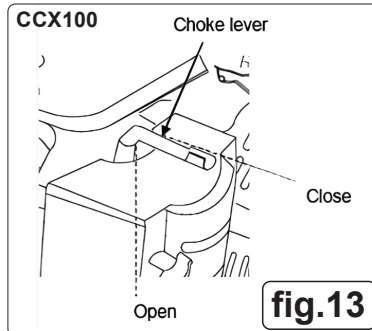
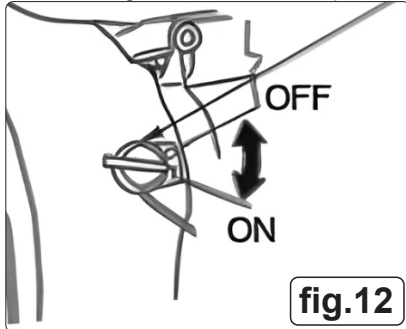
6.3.1. Move the fuel valve lever to the ON position.(CCX200 only see section 5.1).

6.3.2. If the engine is cold, move the choke lever to the CLOSE position.(Choke CCX100 see 5.1 for CCX200).

6.3.3. For a warm engine, leave the choke lever in the OPEN position.

6.3.4. Move the throttle lever from the SLOW position to about one-third toward the FAST position.

6.3.5. Turn the engine switch to the ON position.



6.3.6. Operate the starter to begin cranking the engine until it starts.

☐ **WARNING! DO NOT** operate the compactor on concrete or extremely hard, dry, compacted surfaces. These surfaces can cause the plate to jump instead of vibrate, which may result in damage to both the plate and the engine.

6.4. WARM-UP AND ACCELERATION

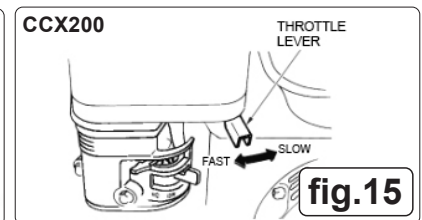
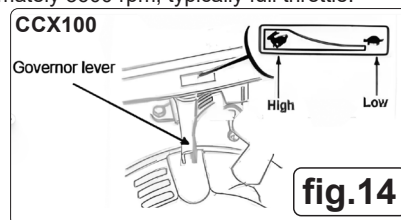
6.4.1. After the engine has warmed up, move the throttle lever forward to increase engine speed. The plate will begin vibrating and move forward under its own power (see fig.13,14,15).

6.5. OPERATING SPEED

6.5.1. The compactor is designed to operate at approximately 3600 rpm, typically full throttle.

6.5.2. Operating at lower speeds will:

- Reduce compaction force
- Decrease travel speed
- Create irregular vibration ("out-of-sync" motion)
- Reduce compaction quality and manoeuvrability
- Increase wear on components
- Cause operator discomfort



6.6. GUIDING THE MACHINE

6.6.1. Guide the compactor while allowing it to do the work.

6.6.2. Excessive downward pressure on the handle is unnecessary and can lead to premature wear of the shock absorbers.

6.7. MOVEMENT ON VARIOUS SURFACES

6.7.1. On level surfaces, the compactor will move forward easily.

6.7.2. On uneven terrain or inclines, apply light forward pressure on the handle to assist movement.

6.8. COMPACTION PASSES

6.8.1. The number of passes required depends on soil type and moisture content.

6.8.2. Maximum compaction is typically reached when noticeable kickback from the plate occurs.

6.9. SURFACE-SPECIFIC REQUIREMENTS

6.9.1. Asphalt

6.9.1.1. Use a Water Sprinkler Kit to prevent the bottom plate from sticking to hot asphalt surfaces.

6.9.2. Paving Stones

6.9.2.1. Fit a protective urethane pad to prevent chipping or surface abrasion.

6.10. SOIL MOISTURE CONSIDERATIONS

6.10.1. Too Wet:

6.10.2. Soil may clump together, preventing proper compaction.

6.10.3. Allow excessively wet soil to dry before compacting.

6.11. TOO DRY:

6.11.1. If dust clouds form during operation, lightly moisten the soil.

6.11.2. Adding moisture will:

- 6.11.3. Improve compaction
- 6.11.4. Reduce dust levels

6.12. STOPPING THE ENGINE

☐ **WARNING! DO NOT** move choke control to CLOSE to stop engine. Backfire or engine damage may occur.

6.12.1. Emergency Shut-down

6.12.2. Turn the engine switch immediately to OFF.

6.13. Normal Shut-down

6.13.1. Move the throttle lever to the SLOW position.

6.13.2. Allow the engine to idle for 1–2 minutes.

6.13.3. Turn the engine switch to OFF.

6.13.4. Turn the fuel valve lever to OFF.

6.14. RESTART

Turn the fuel valve ON, set the throttle to START, then turn the engine switch to ON.

6.15. IDLE SPEED

- 6.15.1. Set throttle control lever to its "low" position to reduce stress on the engine when compacting is not being performed. Lowering the engine speed to idle the engine will help extend the life of the engine, as well as conserve fuel and reduce the noise level of the machine.

7. MAINTENANCE

NOTE: Maintaining your compactor will ensure long life to the machine and its components.

- ❑ **WARNING!** Never use a "pressure washer" to clean your plate compactor. Water can penetrate tight areas of the unit and cause damage to spindles, pulleys, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.

7.1. PREVENTIVE MAINTENANCE

- 7.1.1. Turn off engine. Engine must be cool.
- 7.1.2. Keep the engine's throttle lever in its SLOW position, and remove spark plug lead from spark plug and secure.
- 7.1.3. Inspect the general condition of the plate compactor. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
- 7.1.4. Remove all debris from the plate compactor with a soft brush, vacuum, or compressed air. Then use a premium quality lightweight machine oil to lubricate all moving parts.
- 7.1.5. Clean the bottom of the compactor base as soon as it begins to pick up soil being compacted. The unit can not do a good job if the bottom surface is not smooth and clean.
- 7.1.6.6. Replace spark plug HT lead.

7.2. V-BELT(S) INSPECTION (fig.16 and fig.17)

- 7.2.1. To ensure optimum power transmission from the engine to the eccentric shaft, the V-belt(s) must be in good condition and operate under proper tension.
- 7.2.2.1. Turn off engine. Engine must be cool.
- 7.2.2.2. Remove the belt guard to access the V-belt(s).
- 7.2.2.3. Check the condition of the V-belt(s). If any V-belt is cracked, frayed, or glazed, it should be replaced as soon as convenient.
- 7.2.2.4. Check the V-belt tension by squeezing them in the centre. The normal deflection on each side should be 9mm (3/8") to 13mm (1/2") with moderate pressure from your thumb or finger.

NOTE: On new machines or after installing a new belt, check belt tension after first 20 hours of operation. Check and adjust belt every 50 hours thereafter.

7.3. TENSIONING THE V-BELT(S)

- 7.3.1. **NOTE:** Correct V-belt tension is essential for proper machine performance and long belt life. Incorrect tension—either too tight or too loose—can cause premature belt failure.

7.4. ADJUSTMENT PROCEDURE fig.16, fig.17

- 7.4.1. Loosen the engine mount bolts
- 7.4.2. Loosen the four engine mounting bolts just enough to allow the engine to slide forward. Do not remove the bolts.
- 7.4.3. Loosen jam nuts fig.16, fig.17 (B)
- 7.4.4. Back off the jam nuts (B) to create enough clearance between the nut and the bracket.
- NOTE:** Before adjusting the belt(s), ensure the clutch pulley is properly aligned with the exciter pulley.
- 7.4.5. Remove slack from the belt(s)
- 7.4.6. Turn the adjustment bolts Fig.16(A) to push the engine toward the rear of the plate. Continue turning until all slack is removed from the V-belt(s)

- 7.4.7. Once the correct belt tension is achieved, tighten the jam nuts (B) firmly against the bracket.

- 7.4.8. Tighten engine mount bolts
- 7.4.9. Re-tighten the four engine mounting bolts to lock the engine in position.
- 7.4.10. Reinstall the belt guard

NOTE: If the adjustment bolts are at their maximum travel and proper tension cannot be achieved, the belt(s) will need to be replaced.

7.5. REPLACING THE V-BELTS

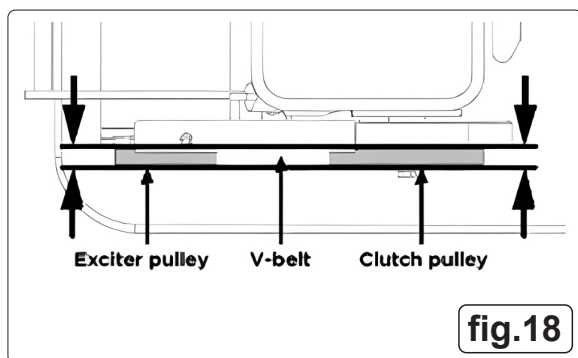
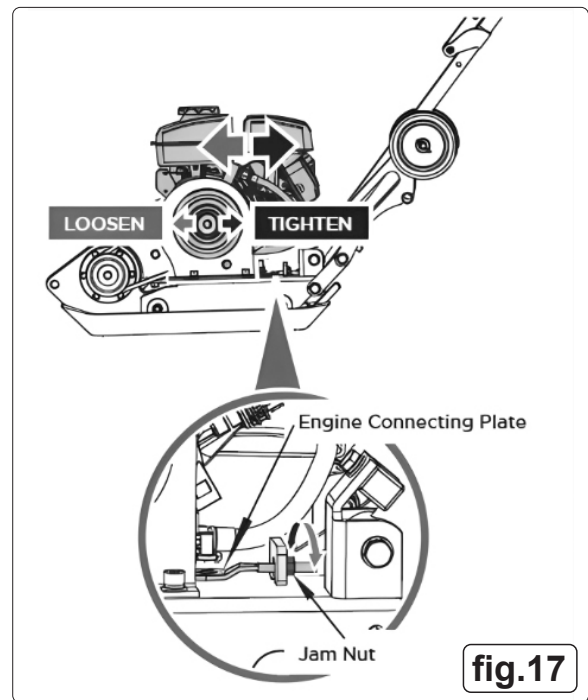
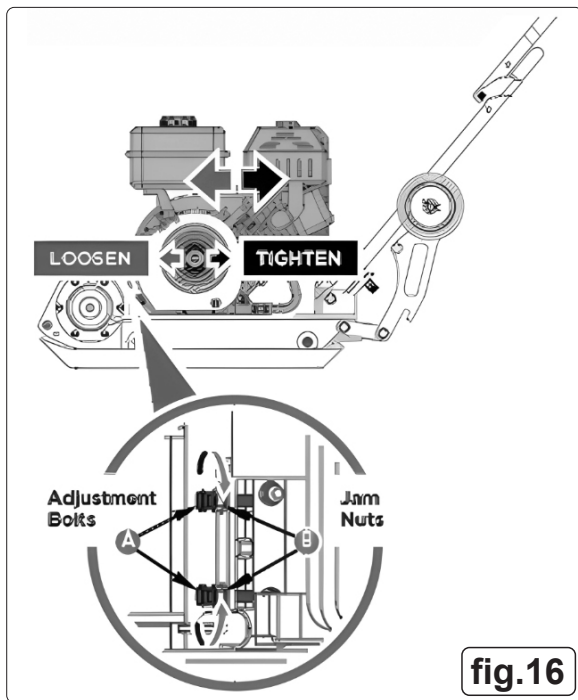
NOTE: Both V-belts should be replaced at the same time because they will wear evenly through normal use. Work on one belt at a time. (For CCX100, there is only one belt.)

- 7.5.1. Loose 4 engine mount bolts (do not remove) only enough to move the engine forward.
- 7.5.2. Loosen the jam nuts B and bolts A shown in above fig.16 and fig.17.
- 7.5.3. Slide the engine toward the front of plate and slip the old V-belt(s) off of the wheel pulley and install the new V-belt(s) in their place.
- 7.5.4. Position the V-belt(s) over the engine pulley.
- 7.5.5. Move the engine back.

NOTE: When adjusting the belt(s), make sure that the clutch pulley is in alignment with exciter pulley (fig.18).

- 7.5.6. When the V-belt tension is correct, tighten the jam nuts B and the engine mount bolts.
- 7.5.7. Replace the belt guard.

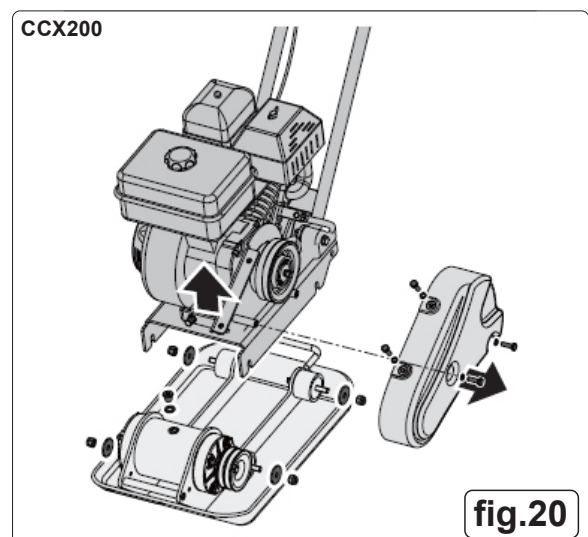
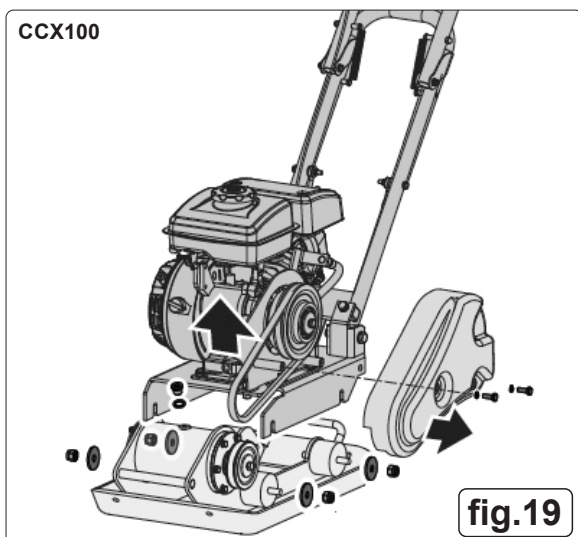
- ❑ **WARNING!** When removing or installing the drive belt(s), be careful not to get your fingers caught between the belt and pulley.



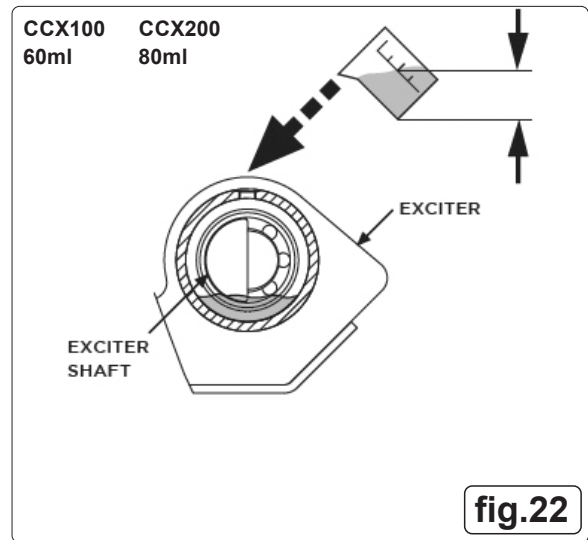
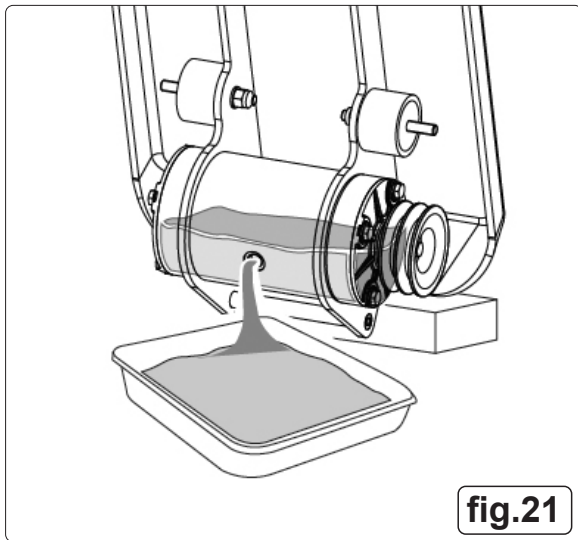
7.6. EXCITER LUBRICATION (fig.19 and fig.20)

7.6.1. The exciter housing is pre-serviced with vehicle gear oil API GL-4 80W-90 or 75W-90. Change oil with equivalent grade after 200 hours of operation.

7.6.2. Let exciter cool before changing exciter oil.



- 7.6.3. Remove the belt guard and V-belt(s).
- 7.6.4. Remove the bolts that hold the deck to the housing.
- 7.6.5. Lift entire deck with engine from the housing.

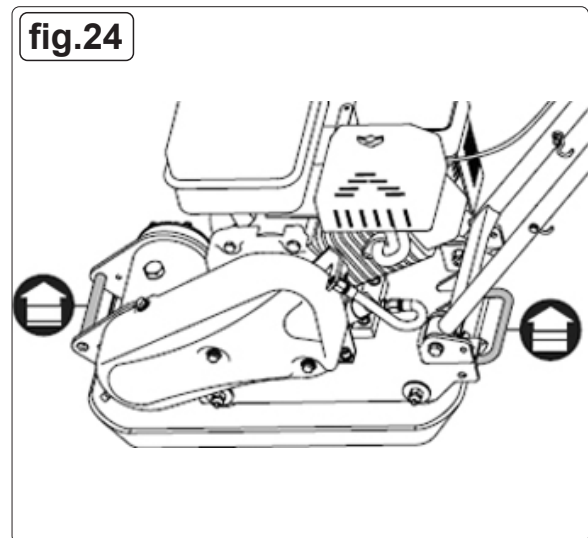
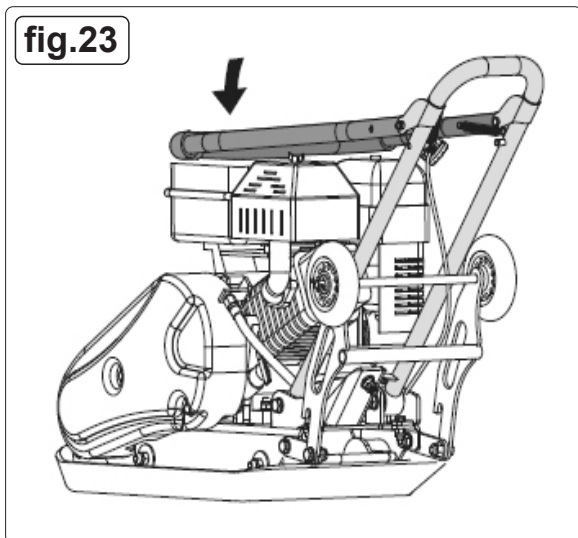


- 7.6.6. Remove pipe plug from top of exciter housing. Tilt housing upside down so oil drains from exciter. Examine oil for metal chips as a precaution to future problems (fig.21).
- 7.6.7. Return plate housing to the upright position.
- 7.6.8. Fill the exciter housing with exciter oil (fig.22).
 - * **DO NOT** overfill - overfilling can result in excessive temperatures in the exciter.
- 7.6.9. Apply pipe sealant to pipe plug and reinstall into top of exciter housing.
- 7.6.10. Reinstall deck, V-belt(s) and belt guard.

8. STORAGE

- 8.6.1. If the plate compactor will not be used for a period longer than 30 days, following the steps below to prepare your unit for storage.
- 8.6.2. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburettor and restrict fuel flow.
- 8.6.3. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburettor. This helps prevent deposits from forming inside the carburettor and possible engine damage.
- 8.6.4. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the specifications.
- 8.6.5. Allow the engine to cool. Remove the spark plug and put 60 ml of SAE-30 of high quality motor oil into the cylinder. Pull the starter rope slowly to distribute the oil. Replace the spark plug.

NOTE: Remove the spark plug and drain all of the oil from the cylinder before attempting to start the unit after storage.
- 8.6.6. Use clean cloths to clean off the outside of the compactor and to keep the air vents free of obstructions.
 - * **DO NOT** use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.
- 8.6.7. Pull up the spring bolt and fold up the wheels bracket.



- 8.6.8. Carefully fold the upper handle down. **DO NOT** allow control cables to become pinched or bent.
- 8.6.9. Store your plate compactor in upright position in a clean, dry building that has good ventilation.

9. LIFTING AND TRANSPORTING

- 9.1. See specification data for the weight of the machine. To avoid burns or fire hazards, let engine cool before lifting / transporting machine or storing indoors (fig.23).
- 9.2. See specification data for the weight of the machine. To avoid burns or fire hazards, let engine cool before transporting machine or storing indoors.
- 9.3. The unit must be transported in the upright position to prevent fuel from spilling. **DO NOT** lay machine on its side or top.
- 9.4. Secure or tie down unit using the lifting handle to prevent machine from sliding or tipping over.
 - **WARNING!** Machine may fall and cause damage or injury if lifted incorrectly. Lift using handles at base of plate.

10. MAINTENANCE

Maintaining the engine correctly essential for safe, economical, and trouble-free operation.

- ✓ Read the instructions before you begin, and make sure you have the tools and skills required.

❑ **WARNING!** To reduce the possibility of fire or explosion, be careful when working around petrol. Use only a non-flammable solvent, not petrol, to clean parts. Keep sparks and naked flames away from all fuel-related parts.

10.1. PREVENTATIVE MAINTENANCE

- ❑ Turn off engine. Engine must be cool.

10.2. Keep the engine's throttle lever in its SLOW position, and remove spark plug HT lead from spark plug and secure.

10.3. Inspect the general condition of the engine. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.

10.4. Remove all debris with a soft brush, vacuum, or compressed air. Then use a premium quality lightweight machine oil to lubricate all moving parts.

10.5. Replace spark plug HT lead.

- ✗ **DO NOT** use a pressure washer to clean the engine. Water can penetrate the unit and cause damage to spindles, pulleys, bearings, or the engine.

10.6. ENGINE OIL LEVEL CHECK

Make sure the machine with engine stands vertically.

10.7. Remove the oil dipstick (fig.25).

10.8. Insert the dipstick into the oil tank, without re-screwing it, to check the oil level, if the oil lever comes near to the lower limit mark, refill the oil tank up to the upper limit mark (fig.25).

- ✓ Engine capacity: 0.5 L

- ✓ Recommended oil: SAE10W-30 is recommended, as it is suitable to average environment temperatures.

10.9. ENGINE OIL CHANGE

10.10. Drain the used oil while the engine is warm. Warm oil drains quickly and completely. Place a suitable container below the engine to catch the used oil, and then remove the filler cap/dipstick (fig.25) and the drain bolt (fig.26).

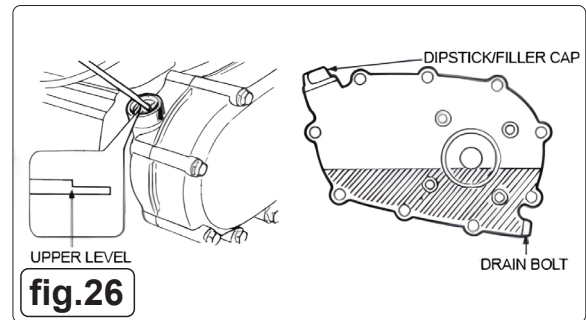
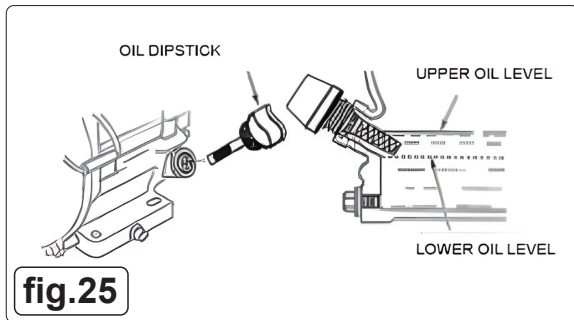
10.11. Allow the used oil to drain completely, and then reinstall the drain bolt and sealing washer (fig.26), and tighten it securely.

- ✓ Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling centre or service station for reclamation. Do not throw it in the trash; pour it on the ground; or down a drain.

10.12. With the engine in a level position, fill to the outer edge of the oil filler hole with the recommended oil (SAE 10W-30 for general use) Engine oil capacity see specification..

- ❑ **WARNING!** Running the engine with a low oil level can cause engine damage.

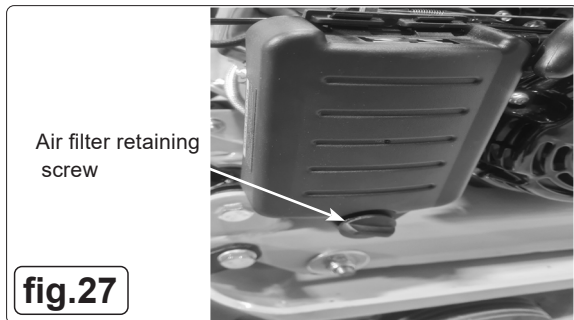
10.13. Screw in the filler cap/dipstick securely (fig.25).



10.14. AIR FILTER INSPECTION (fig.27)

10.15. Remove the air cleaner cover and inspect the filter. Clean or replace dirty filter elements. Always replace damaged filter elements.

10.16. Always replace damaged filter elements. If equipped with an oil bath air cleaner, also check the oil level.



10.17. AIR CLEANER SERVICE

- ✓ A dirty air filter will restrict air flow to the carburettor, reducing engine performance. If you operate the engine in very dusty areas, clean the air filter more often than specified in the maintenance schedule.

- ✗ **DO NOT** Operate the engine without an air filter, or with a damaged air filter, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered under warranty.

10.18. CCX100 (fig.27 and fig.28)

10.18.1. Remove the air filter retaining screw from the outer casing.

10.18.2. Lift the hinged cover to expose the air filter element.

10.18.3. Remove the air filter element from the housing.

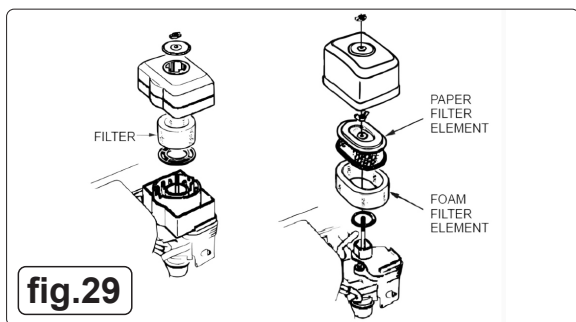
10.18.4. Clean the element by gently shaking out loose debris, or blow compressed air from the inside outward, not exceeding 30 psi (207 kPa).

10.18.5. Do not brush the filter, as this forces dirt into the fibres.

10.18.6. Inspect the filter element and replace it if it is damaged or excessively contaminated.

10.18.7. Reinstall the cleaned or replacement filter element into the housing.

- 10.18.8. Lower the hinged cover back into position.
 10.18.9. Secure the cover by reinstalling and tightening the retaining screw.

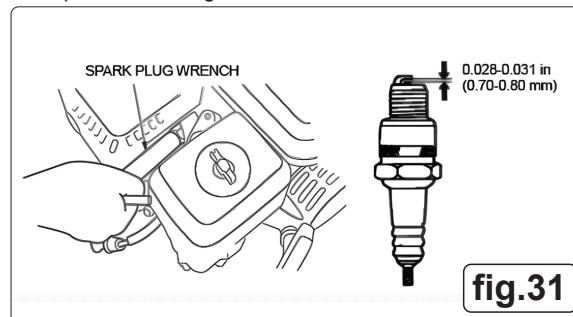
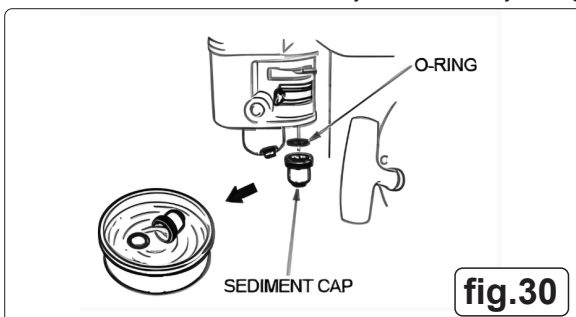


10.19. CCX200 (fig.29)

- 10.19.1. Remove the wing nut from the air cleaner cover, and remove the air cleaner cover.
 10.19.2. Remove the wing nut from the air filter, and remove the filter.
 10.19.3. Remove the foam filter from the paper filter.
 10.19.4. Inspect both air filter elements, and replace them if they are damaged. Always replace the paper air filter element at the scheduled interval.
 10.19.5. Foam air filter element: Clean in warm soapy water, rinse, and allow drying thoroughly. Or clean in non-flammable solvent and allow drying. Dip the filter element in clean engine oil, and then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.

10.20. SEDIMENT CUP CLEANING (fig.30)

- 10.20.1. First check fuel tank for fuel, if having, drain the fuel in the fuel tank completely (CCX100).
 10.20.2. Move the fuel valve to the OFF position. (CCX200).
 10.20.3. Unbolt the fuel sediment cup and remove O-ring.
☐ **WARNING! Petrol is highly flammable and explosive.**
☐ **WARNING! Handling fuel can cause burns and serious injury.**
☐ **WARNING! Keep heat, sparks and flame away.**
☐ **WARNING! Handle fuel only outdoors. Wipe up spills immediately.**
 10.20.4. Clean the sediment cup and O-ring using a non-flammable solvent, then allow them to dry completely.
 10.20.5. Fit the O-ring back into the fuel valve, reinstall the sediment cup, and tighten it securely.
 10.20.6. After installation, check the assembly for leaks. If any leakage is present, replace the O-ring.



10.21. SPARK PLUG SERVICE (fig.31)

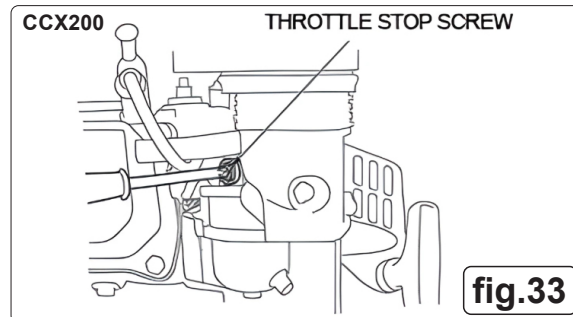
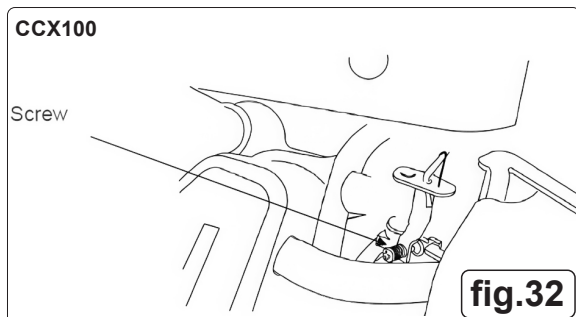
- Recommended spark plugs: F7RTC or equivalent.
☐ **An incorrect spark plug can cause engine damage.**
 10.21.1. Remove the spark plug cap, and clean any dirt from around the spark plug area.
 10.21.2. Remove the spark plug with a spark plug wrench.
 10.21.3. Visually inspect the spark plug. Replace it if the electrodes are worn, or if the insulator is cracked, chipped or fouled.
 10.21.4. Measure the spark plug electrode gap with a suitable gauge. The gap should be 0.028 - 0.031 in (0.70 - 0.80mm). Correct the gap, if necessary, by carefully bending the side electrode.
 10.21.5. Install the spark plug carefully, by hand, to avoid cross-threading.
 10.21.6. After the spark plug seats, tighten with a spark plug wrench to compress the washer.
NOTE: If reinstalling the used spark plug, tighten 1/8 - 1/4 turn after the spark plug seats. If installing a new spark plug, tighten 1/2 turn after the spark plug seats.
☐ **WARNING! A loose spark plug can overheat and damage the engine.**
☐ **WARNING! Over tightening the spark plug can damage the threads in the cylinder head.**
 10.21.7. Attach the spark plug cap.

10.22. IDLE SPEED ADJUSTMENT(CCX100)

10.23. Start the engine outdoors, and allow it to warm up to operating temperature.

10.24. Move the throttle lever to its slowest position.

10.25. Turn the idle speed screw to obtain the standard idle speed. Standard idle speed: 2000±150 rpm



10.26. IDLE SPEED ADJUSTMENT

10.26.1. Start the engine outdoors, and allow it to warm up to operating temperature.

10.26.2. Move the throttle lever to its slowest position.

10.26.3. Turn the throttle stop screw to obtain the standard idle speed. Standard idle speed: 1800±150 rpm.

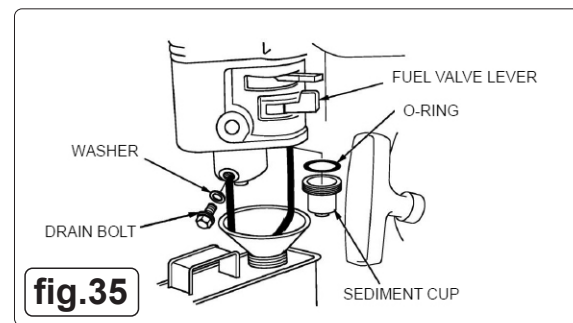
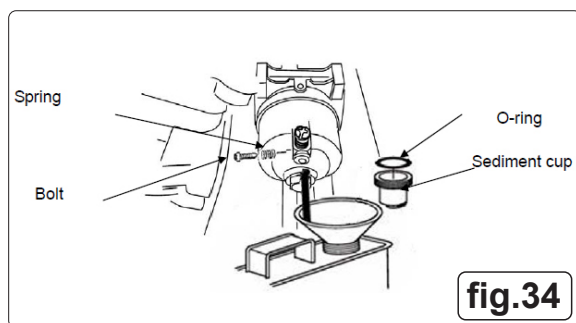
10.27. DRAINING THE FUEL TANK AND CARBURETTOR (fig.27 for CCX100 and fig.28 for CCX200)

10.28. Place a suitable container below the carburettor, and use a funnel to avoid spilling fuel.

10.29. Loosen the carburettor drain bolt, and drain the petrol from the carburettor.

10.30. After all the fuel has drain into the container, reinstall the drain bolt. Tighten them securely.

NOTE: The length of time that petrol can be left in your fuel tank and carburettor without causing functional problems will vary with such factors as the petrol blend, storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Petrol will oxidize and deteriorate in storage. Deteriorated petrol will cause hard starting, and it leaves deposits that clog the fuel system. As a result, if the engine is not used for more than one month, the fuel oil shall be drained thoroughly to prevent from deterioration of the fuel in fuel system and carburettor. The failures of fuel system or engine performance arising from improper storage are not covered the warranty.



11. TROUBLESHOOTING

Engine will not start	Possible Cause	Correction
Check control positions	Choke OPEN.	Move lever to CLOSE unless engine is warm.
	Engine switch OFF.	Turn engine switch to ON
Check fuel	Out of fuel	Refuel
	Bad fuel; engine stored without treating or draining petrol, or refuelled with bad petrol.	Drain fuel tank and carburettor. Refuel with fresh petrol.
Remove and inspect spark Plugs	Spark plugs faulty, fouled or improperly gapped.	Correct the gap or replace spark plugs.
	Spark plugs wet with fuel (flooded engine).	Dry and reinstall spark plugs. Start engine with throttle lever in FAST position.
Take engine to an Authorized servicing Dealer, or refer to manual.	Fuel filter clogged, carburettor malfunction, ignition malfunction, valve stuck, etc.	Replace or repair faulty components as necessary.

Engine lacks power	Possible Cause	Correction
Check air filter	Filter element(s) clogged	Clean or replace filter element(s)
Check fuel	Out of fuel.	Refuel
	Bad fuel; engine stored without treating or draining petrol, or refuelled with bad petrol.	Drain fuel tank and carburettor. Refuel with fresh petrol.
Take engine to an authorised service dealer, or refer to manual.	Fuel filter clogged, carburettor malfunction, ignition malfunction, valve stuck, etc.	Replace or repair faulty components as necessary.

12. MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD Performed at every indicated month or operating hour interval, whichever comes first.		Each Use	First Month or 20 Hrs.	Every 3 Months or 50 Hrs.	Every 6 Months or 100 Hrs.	Every Year or 300 Hrs.
Engine Oil	Check level	●				
	Clean strainer CCX200		●		●	
	Change		●		●	
Air Cleaner	Check	●				
	Clean		● (2)			
	Replace			● (1)		
Spark Plug	Check/Clean				●	
	Replace					●
Idle Speed	Check/Adjust				● (3)	
Valve Clearance	Check/Adjust					● (3)
Combustion Chamber	Clean	After every 300 hours (3)				
Fuel tank and strainer	Clean	After every 300 hours (3)				
Fuel Line	Check	Every 2 years (replace if necessary) (3)				
(1) Replace the paper element type only. (2) Service more frequently when used in dusty areas. (3) These items should be serviced by your servicing dealer unless you have the proper tools and are mechanically proficient. Refer to manual for service procedures.						

13. END OF LIFE

At the end of its service life, this petrol compactor must be disposed of in an environmentally responsible manner. The engine, fuel, oils, and other hazardous materials should be drained and handled by an approved waste management facility. Components such as metal parts should be recycled wherever possible. **DO NOT** discard the machine, fluids, with general household or construction waste. Please follow all local environmental regulations to ensure safe and sustainable disposal.

14. ACCIDENT OR BREAKDOWN

Immediately switch off the engine, disconnect the spark plug cap, and keep clear of moving parts. Do not attempt to restart or move the compactor until the fault has been identified and corrected by a competent person.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



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Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Lifetime guarantee. Proof of which is required for any claim.

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