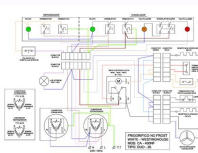


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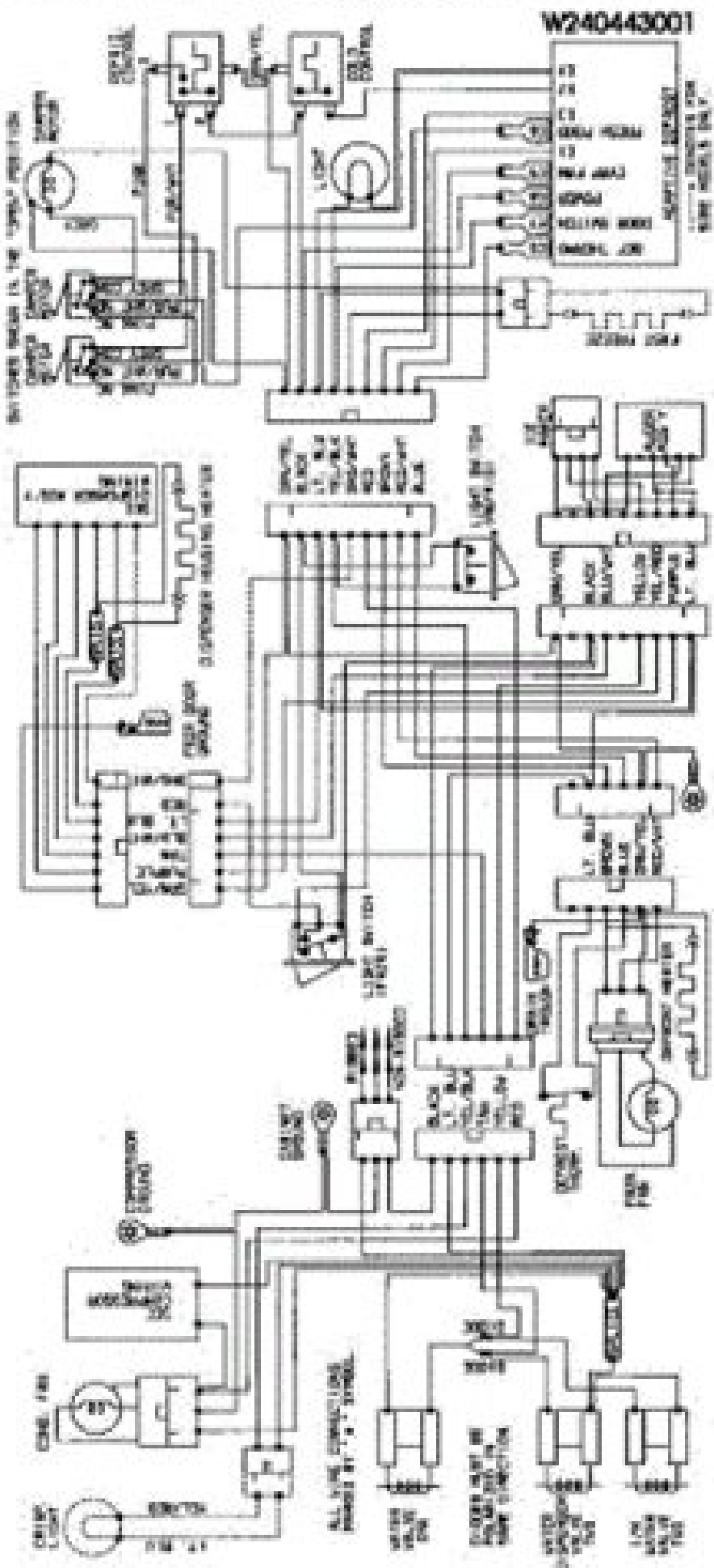


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WIRING DIAGRAM



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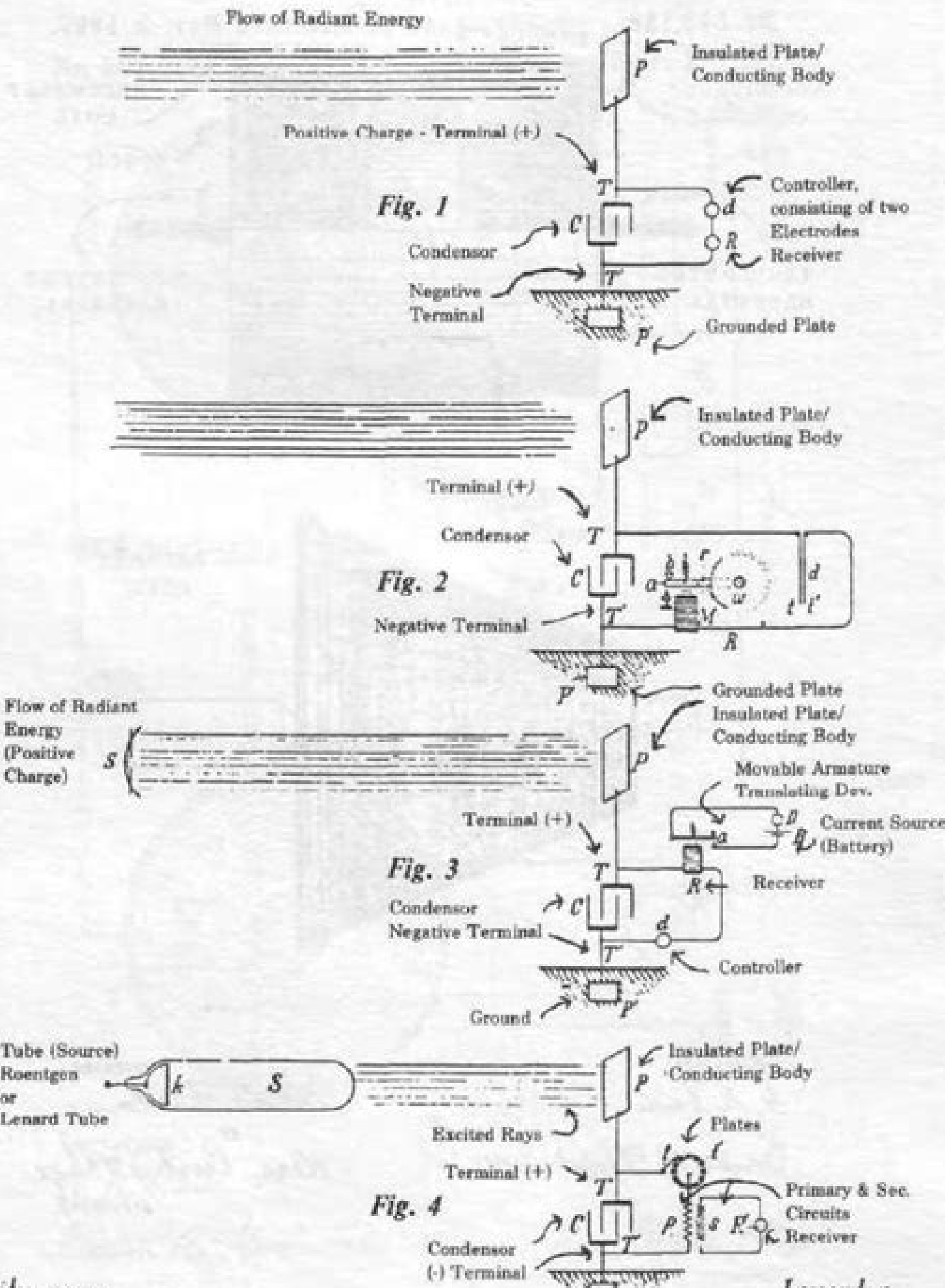
22

No. 685,957. Patented Nov. 5, 1901.

N. TESLA
APPARATUS FOR THE UTILIZATION OF RADIANT ENERGY

(Application filed Mar. 11, 1901)

(No Model.)



Witnesses:
Rashid H. Hitter
Dr. Lawrence Dyer.

Inventor
Nikola Tesla
by Ken. Page & Co. Attys.

THE BENCH CUTOUT should be made as per the diagram.
The bottom must be left open to allow access for both installation and service.

CHECK the correct model/bench cutoffs slow

MODELS: PHM394U 64J 994U EHC945U

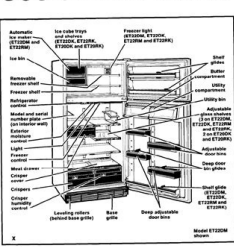


2. Must be made in accordance with S.A.A. Wiring Rules and any particular conditions of the local authority.
3. Power cable to have a minimum free length of 1 metre from unit to permit easy access for service.
4. Electrical cover MUST be fitted after connection is complete.
5. A functional switch with a contact separation of at least 3mm in all active conductors must be provided near the controlpost and the junction must be in an accessible position after installation.
(refer to AS/NZS 2000 clause 4.3.1.11).
6. The wiring must be protected against mechanical failure (refer to clause 3.8.3).
7. For residences NOT provided with a supply cord, means for disconnection with a contact separation of at least 3mm in all active conductors must be incorporated in fixed wiring.

WARNING: THIS APPLIANCE MUST BE EARTHED.

Electrical damage can occur if this appliance is incorrectly installed - any such damage and incidental damage may not be covered by the warranty.
The unit must be installed by an authorised person in compliance with local municipal building codes and any other relevant statutory regulation.

 Use & Care Guide

[illegible]

Charger with (-) alligator clip or terminal clamp (black) from the negative (-) terminal on the battery. igen4500: Carefully cut the vertical corners of the carton to access the generator. Only fill fuel tank with unleaded petrol. Remove and save the instruction manual, oil bottle, oil funnel and spark plug socket wrench. Remove the cigarette lighter plug from the generator. s 12-Volt DC accessory socket. Extension leads with conductor size of 1.5 mm 2 or 2.5 mm 2 should not exceed 25 m or 40 m in length, respectively, for general use in accordance with AS/NZS 3199:2007. igen2200 & 2500: Slide open and remove the spark plug access cover (see Figure 41). Low pressure compressed air may also be used to blow off any dirt or dust. It is recommended that the generator should always be operated with at least one-third of its rated 240-Volt AC power output. Figure 38 Removing the Fuel Strainer 2834 MAINTENANCE 8. Remove the temporary cable tie on the negative (-) cable and then route the cable towards the negative (-) battery terminal. Move the battery to a well-ventilated work bench or other suitable location adjacent to the battery charger. A Bottle of SAE 10W-30 Engine Oil (250 ml for igen1200, 350 ml for igen2200 & 2500, and 600 ml for igen4500) B Oil Funnel C Spark Plug Socket Wrench D Instruction Manual A D C B Figure 2 - Accessories 511 FEATURES MAIN GENERATOR COMPONENTS igen Carry Handle - Fuel Cap and Vent - Control Panel - Engine and Fuel Control Switch - Recoil Starter Handle Engine Access Cover - Choke Lever - Spark Plug Access Cover - Exhaust Pipe - Muffler Access Cover Figure 3 - igen1200 Main Generator Components 612 FEATURES CONTROL PANEL FEATURES igen Run Time (hours) Output Indicator: The green status light will illuminate whenever the engine is running and there s AC output available from the generator. Such faults are not covered by the generator s warranty. Add up the running power demand again, but for the largest motor-driven device use the value of its starting power demand instead of its running power demand. Low Oil Alarm: The red warning light will illuminate and the engine will automatically shut down if the oil level becomes too low. igen2200 & 2500: Re-install the muffler access cover. NOTICE NEVER twist or tear the air filter element during cleaning or drying. Add up the running power demand of all the 240-Volt AC devices that will be connected to the generator at one time. 12. Operating the generator on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the generator that could: ock cooling vents ock air intake system NOTICE Ensure that the generator is always kept horizontal during handling, operation, storage and transport. The total running power demand of all the devices that will be connected to any one of the generator s outlets must not exceed the generator s specified running power output of 3,600 W, whichever is the lesser. Follow the guidelines of the governmental agencies for proper disposal of hazardous materials. Replace the battery access cover. As the engine starts running and warms up, gradually move the choke lever leftwards to the RUN position. Insert the cigarette lighter plug into the generator s 12-Volt DC accessory socket. igen2200 & 2500: Remove the engine access cover (see Figure 27). Moreover, because of our continuous product improvement policy, we may modify information, illustrations or specifications to explain or exemplify a product, service or maintenance improvement. ACCESSORIES Check the accessories against those shown in Figure 2. (See Starting the Generator and Stopping the Generator). 240-Volt AC devices may be fitted with either a three-pin 15 Ampere (typically abbreviated 15 Amp or 15 A) plug or a three-pin 10 Ampere (10 Amp or 10 A) plug as shown in Figure 21. igen1200: Remove the air filter cover by pressing down on the locking tab and tipping the cover forwards (see Figure 34). Two 240-Volt AC power outputs are specified for the generator, namely the running power and the starting power. And then apply the appropriate multiplying factor for starting power demand if the device has an electric motor. The engine s power output will decrease by approximately 3.5% for each 300 m increase in altitude above sea level. A SAE multigrade viscosity of 10W-30 is suitable for use in ambient temperatures of up to 40 C. fitted with a cigarette lighter plug for connection to the generator as shown in Figure 22. Allow the generator to cool down if it has been running. Applying a side load or moving the spark plug laterally may crack and damage the spark plug insulator. Remove the engine access cover (see Figure 26, 27 or 33, as applicable). Spill fuel may damage some plastic parts. Disconnect the negative (-) battery cable (black boot) from the negative (-) terminal on the battery. Always use three-wire or doubleinsulated power tools. When replacing the spark plug, use only the specified part as listed in Table 3. Connect the battery charger s negative (-) alligator clip or terminal clamp (black) to the negative (-) terminal on the battery. Connect electrical cords or devices into the 240-Volt AC, 12-Volt DC accessory or 5-Volt DC USB outlets, as required. Only operate the generator outside and away from windows, doors and vents. Unplug any electrical cords or devices from the 240-Volt AC, 12-Volt DC accessory and 5-Volt DC USB receptacles on the control panel. ALL RIGHTS RESERVED. No part of this publication may be reproduced or used in any form by any means graphic, electronic or mechanical, including photocopying, recording, taping or information storage and retrieval systems without the written permission of Westinghouse Outdoor Power Equipment. A rule of thumb for devices fitted with an electric motor is to apply a starting power multiplier of 1.2 for small hand-held or portable devices and a value of 3.5 for larger stationary devices. Once the engine is running, a small charge is supplied to the battery via the battery cables that will slowly recharge the battery. Spilled fuel can ignite. As the engine starts running and warms up, turn the fuel and choke control switch anti-clockwise to the ON position. igen1200: Remove the engine access cover (see Figure 26). The above guidelines serve as approximations only of determining the running and starting power demands of 240-Volt AC devices. No Connected Loads Make sure the generator has no connected loads before starting it. Fuel and fuel vapours are extremely flammable and can ignite under certain conditions. Never attempt to connect more than one generator to the same electrical device, extension cord or fixed electrical installation. Only use outside and far away from windows, doors and vents. Let the generator rest for 15 seconds and then repeat Step 2. A simple visual guide is to observe the oil level relative to the bottom lip of the oil filler neck in the engine (into which the oil fill plug is screwed). Moisture or ice can cause a short circuit or other malfunction in the electrical system. To re-start a warm engine, turn the knob to the ON position. igen4500: Remove the engine access cover (see Figure 33). 1 2 NOTE: The generator comes equipped with the positive battery cable (red boot) already attached. Following the maintenance schedule is essential to keep the generator in good operating condition. If ignited, the hydrogen gas mixture can explode the battery and cause serious injury or blindness. If any parts are missing, please contact your local Westinghouse dealer. Any electrolyte spill should be thoroughly flushed clean with water. Where possible it is preferable to use regular unleaded petrol without ethanol. The generator s 12-Volt DC electrical output is unregulated and may damage the battery due to overcharging. Figure 32 Draining the Engine Oil 2632 MAINTENANCE 7. Required Fuel Use only unleaded petrol with an octane rating not less than 91 and ethanol content not greater than 10%. Loosen the locking screw and pull the spark arrester collar and screen off the muffler exhaust pipe (see Figure 48). Excessive carbon or oil fouling of the electrodes; clean the electrodes with a wire brush or replace the spark plug. The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if generator is operated in a dusty environment). 34 If the generator is located close to a building, it is not located near any windows, doors or vents. See Checking Engine Oil. Frequent and prolonged contact with engine oil may cause skin cancer. A 15 A plug cannot be inserted into a standard domestic 10 A socket. igen4500: Phillips head screwdriver, 10 mm socket wrench and wire brush. All loads are disconnected from the generator (see No Connected Loads). WARNING WARNING Read Instruction Manual Unleaded Petrol Only Westinghouse Portable Power 777 Manor Park Drive Columbus Ohio USA N15626 IP23 Made in PRC Figure 1 - Safety Labels 410 UNPACKING UNPACKING THE GENERATOR WARNING Always have assistance when lifting the generator. 1723 OPERATION igen4500 Electric Starting 1. Never use worn or damaged extension cords. Switch the battery charger OFF and unplug its power supply cord from the generator. Wear eye protection while refuelling. The use of a nonrecommended spark plug can damage the engine. Battery Charging by a Mains-Powered Charger (igen1200, 2200, 2500 & 4500) This method is RECOMMENDED. A soft, non-metallic bristle brush or a vacuum cleaner may be used to loosen and remove any built-up dirt, mud or other debris. Connect electrical cords or devices into the 240-Volt AC, 12-Volt DC accessory or 5-Volt DC USB outlets, as required. Once the engine starts, release the engine control switch; the switch will automatically move into the central RUN position (see Figure 19). Always perform maintenance in a well-ventilated area. Failure to maintain proper engine oil level can damage the engine. Similarly, a 1,650 W air compressor can be assumed to have a starting power demand of at least 3.5 1,650 W, which equals 5,775 W. Never overfill the fuel tank. Some batteries have a state of charge indicator that can be visually checked. DANGER Indicates a hazardous situation which, if not avoided, will result in death or serious injury. Clean the air filter cover with a rag and place it aside. 2026 OPERATION The generator s total power output measured in Watts is listed in the Specifications. NOTICE Never modify the generator. Figure 52 igen4500 Draining the Carburettor NOTICE Never dispose of fuel or fuel contaminants by dumping either of them into a sewer, on the ground, or into groundwater or waterways. Thoroughly clean around the oil fill plug. More complex 240-Volt AC devices containing inductive or capacitive elements such as electric motors have a momentary extra power demand when starting, which can be up to seven times the running power demand or more. Re-install the fuel strainer by hand inside the filler hole on top of the fuel tank (see Figure 39). Always use earthed extension cords. To re-start a warm engine, leave the choke lever pushed left to the RUN position. This will allow dirt to enter the engine and cause accelerated wear. The steady state continuous load is the running power demand and this is often marked on the device near its model number or serial number. Any connection to an electrical installation such as in a building, for example, must be carried out by a licensed electrician. If installing a new spark plug, tighten approximately 1/4 to 1/2 a turn after the spark plug seats. 12-Volt DC Accessory Loads (igen1200 & 4500) 12-Volt DC devices can be connected either directly or via an electrical extension cord not exceeding 3.5 m in length into the 12-Volt DC outlet on the generator s control panel. Re-install the fuel cap. DO NOT use extension cords that are rolled up or knotted as they may overheat. Take care to ensure that the hose is correctly routed and not touching any potentially hot components. For most common applications, users can connect a Westinghouse generator to power electrical devices by detachable plug and socket-outlet connection as described in this manual. Figure 4 - igen1200 Control Panel Features 713 MAIN GENERATOR COMPONENTS igen2200 & FEATURES Carry Handle - Fuel Cap and Vent - Control Panel - Recoil Starter Handle Spark Plug Access Cover - Exhaust Pipe with Spark Arrester - Muffler Access Cover - Engine Access Cover Figure 5 - igen2200 & 2500 Main Generator Components 914 FEATURES CONTROL PANEL FEATURES igen2200 & Run Time (hours) Output Indicator: The green status light will illuminate whenever the engine is running and there s AC output available from the generator. After starting the generator, it is not safe to add fuel to the fuel tank or engine oil to the engine while the engine is running or immediately after stopping while the engine and muffler are still hot. Use only extra heavy duty 15 A extension cords made from 3-core cable of at least 1.5 mm 2 conductor size and fitted with 15 A plugs and sockets (see Figure 21). Turn the fuel and choke control switch clockwise to the CHOKE position if starting a cold engine (see Figure 18). Charge the battery in accordance with the battery charger s instructions. Only extend or retract the handle while the generator is stationary and resting on a horizontal surface. Use a spark plug socket wrench to remove the spark plug from the cylinder head by unscrewing it anti-clockwise (see Figure 43). Continuous supply from a single outlet should not exceed 3,600 Watts (i.e. 15 Amps at 240 Volts) Volt DC, 2.1-Amp USB Outlet: Suitable for charging electronic devices such as phones, tablets and computers with a power demand not exceeding 10 Watts. 7. In the absence of any power demand information whatsoever, one can assume that any device fitted with a standard domestic 10 A plug has a maximum running power demand of 2,400 W (i.e. 240 V x 10 A = 2,400 W). STOPPING THE GENERATOR Normal Operation During normal operation, use the following steps to stop the generator: 1. Monitor the battery; stop charging if the battery gets hot to the touch and the electrolyte boils violently. Prepare the battery for charging if it is a usermaintainable type by removing the vent caps and adding demineralized or distilled water until the electrolyte level is just above the internal battery plates. igen4500: Remove the oil access cover (see Figure 28). 39 SAFETY SAFETY LABELS The safety labels have specific positions and must be replaced if they are unreadable, damaged or missing. An extended large overcurrent or short circuit will trip the overload protection feature and disconnect the generator s AC output even though the engine is still running. 1. Never use fuel as a cleaning agent. 16. Check and clean the spark arrester after every 100 hours of use or 6 months. NOTICE The generator is equipped with a low oil shutdown switch. In those instances where it not practicable or safe to directly plug an electrical device into the generator, the use of an electrical extension cord is necessary. Water may enter the fuel or electric systems and damage the generator. The risk of electric shock is also possible. Never push the engine control switch to the START position while the engine is running; this can damage the generator. Store any fuel containers in a wellventilated area, away from any combustibles or source of ignition. Earthing the Generator The generator s equipotential bonding system including the frame terminal on the control panel should not be connected to the general mass of earth through a separate earth electrode. Figure Volt DC Cigarette Lighter Plug WARNING Never insert an automotive cigarette lighter into the 12-Volt DC outlet. igen4500: Press the generator reset button on the control panel until the overload alarm light goes off and the output indicator light is illuminated green. b - Place the spark arrester band clamp over the collar with the gap in the band clamp aligned with the collar locking screw. Maintenance Schedule WARNING Failure to perform periodic maintenance or not following maintenance procedures can cause the generator to malfunction and could result in death or serious injury. Engine, Fuel and Choke Control Switch: Turn the knob to the CHOKE position before starting the generator if its engine is cold. Do not use the extendable handle to lift the generator entirely off the ground, tow it or up-end it. Figure 20 ECO Throttle Switch in the ON Position To deactivate ECO mode, move the ECO throttle switch to the OFF position. The USB receptacle on the generator s control panel supplies electrical power only for charging and not any form of electronic communication, data or signal. Figure 35 - igen2200 & 2500 Removing the Air Filter Cover 2733 MAINTENANCE igen4500: Remove the air filter cover by turning the twistlocks anti-clockwise and tipping the cover forwards (see Figure 36). The battery is now charging. Be sure the engine has the proper oil level before using. Voltage drop increases proportionately with the length of an extension cord and may result in damage to the powered device. Disconnect the positive (+) alligator clip (red) from the positive (+) terminal on the battery. Similarly, a device fitted with a heavy duty 15 A plug can be assumed to have a maximum running power demand of 3,600 W (i.e. 240 V x 15 A = 3,600 W). For example, to remove contaminated or stale fuel or to prepare the generator for transport or storage, We reserve the right to make any change at any time without notice. Manufacturers of such devices rarely publish this starting power demand and so it s often necessary to estimate it. Figure 50 igen1200 Draining the Carburettor Figure 49 Emptying the Fuel Tank Figure 51 igen2200 & 2500 Draining the Carburettor 3339 MAINTENANCE NOTICE Fuel stored for as little as 30 days can go bad, causing gum, varnish and corrosive build-up in fuel lines, fuel passages and the engine. Allow the generator to cool down until the muffler access cover is cool to the touch. NOTICE Never dispose of fuel or fuel contaminants by dumping either of them into a sewer, on the ground, or into groundwater or waterways. Turn off the generator and let it cool for several minutes if it s been running. Never touch an operating generator if the generator is wet or if you have wet hands. 10. Verify the positive (+) battery cable (red boot) is securely tightened to the positive (+) battery terminal. DISCLAIMERS: All instructions, illustrations and specifications in this manual are based on the latest information available at the time of publishing. Start the generator and run it for 10 minutes to ensure that treated fuel is distributed throughout the engine s fuel system. 14. Turn the fuel cap vent to the ON position (see Figure 13). Tools required - igen1200, 2200 & 2500: Phillips head screwdriver. Frame Terminal: The frame terminal can be used by a licensed electrician to earth the generator if necessary Volt AC, 15-Amp Outlet: The outlet is capable of delivering the generator s peak output of 1,200 Watts (i.e. 5 Amps at 240 Volts). It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol. The spark plug should be checked and cleaned after every 100 hours of use or 6 months and then replaced after 250 hours of use or every year. ECO THROTTLE CONTROL The generator is equipped with ECO Throttle Control to minimise fuel consumption. igen1200: Loosen the locking screw on the spark plug access cover and then slide open and remove the cover (see Figure 40). Remove and discard the upper packing tray. Use only genuine Westinghouse spare parts or others as specified herein. DANGER Never use the generator in a location that is wet or damp. To deploy it, push on the locking button and pull on the handle until it s fully extended (see Figure 24). During an Emergency If there is an emergency and the generator must be stopped quickly, follow the procedure in Step 3 above with haste. Reinstall the oil fill plug and engine oil or access cover. Figure 6 - igen2200 & 2500 Control Panel Features 915 FEATURES MAIN GENERATOR COMPONENTS igen Fuel Cap - Front Carry Handle - Control Panel - Extendable Handle - Wheel - Engine Access Cover Rear Carry Handle - Muffler Access Cover - Exhaust Pipe with Spark Arrester - Battery Access Cover - Oil Access Cover - Recoil Starter Handle Figure 7 - igen4500 Main Generator Components 1016 FEATURES CONTROL PANEL FEATURES igen Cumulative Run Time (hours) Run Time to Empty (hours) Output Power (kw) Fuel Level (litres) Output Voltage (Volts) Figure 8 - igen4500 Control Panel Features Volt AC, 15-Amp Outlets: Each outlet is capable of delivering the generator s peak output of 4,500 Watts (i.e Amps at 240 Volts) intermittently. Protect the generator from all hazardous weather conditions. NOTICE Never apply any side load or move the spark plug laterally when removing the spark plug. APPLICATION AND DUTY CYCLE All models within this range of Westinghouse generators are portable, air-cooled, petrolengine driven, self-contained units designed for independent supply of electrical power. Proper care should be taken to prepare the generator for any long-term storage. Do not refuel the generator while engine is running. Remove the spark plug boot by firmly pulling it up and away from the engine (see Figure 42). DANGER This manual contains important instructions for operating the generator. The igen4500 s wheels are only intended for ease of moving the generator around by hand. igen1200: Turn the engine and fuel control switch clockwise to the OFF position. Before starting the generator, always check the engine oil and fuel levels. Figure 10 Battery Removed from Generator for Connection DANGER Using a generator indoors can kill you in minutes. Be careful not to overfill the tank. Figure 31 Adding Engine Oil 9. 3137 MAINTENANCE CLEANING THE GENERATOR The generator should be kept clean and dry at all times to ensure its reliable and safe operation. NOTICE DO NOT overload the generator s 240-Volt AC, 12-Volt DC or 5-Volt DC circuits beyond their rated capacities. NOTICE 1 - Positive (+) Battery Cable (Red) 2 - Negative (-) Battery Cable (ack) Figure 11 Attaching the Negative (-) Battery Cable (ack) to the Negative (-) Battery Terminal Only operate the generator on a solid, level surface. Figure 40 - igen1200 Removing the Spark Plug Access Cover Figure 39 Re-installing the Fuel Strainer 10. Battery Charging by Direct Connection (igen1200 & 4500) This method is NOT RECOMMENDED and should only be used in an emergency. Petrol is highly flammable. It is preferable to consume the fuel in another engine-powered device straight away or dispose of it properly rather than storing it for a long time with fuel stabiliser for later re-use. Take care to wipe up any spills immediately. This will minimize voltage drop and prevent any hazard or inconvenience arising from the joint(s) becoming disconnected. Prolonged skin contact with engine oil or fuel can be harmful. G A F B C 5. Stop the engine, if running. Turn the fuel cap vent anti-clockwise to the OFF position (if equipped). Follow the manufacturer s recommendation for correct amount of stabiliser to add. Start the generator, if possible, and run the engine without load until it stops when the last remnants of fuel have been used. NEVER touch both battery terminals simultaneously. Pass the battery strap under the negative (-) battery cable and centrally over the top of the battery. As the engine starts running and warms up, turn the engine, fuel and choke control switch anticlockwise to the ON position. The generator as shipped does not contain oil in the engine. Be certain that the meanings of these alerts are known to all who work on or near the equipment. NEVER place a tool or other metal object across both battery terminals. Push the engine control switch to the central RUN position (see Figure 19). Generator Reset Button: Press and hold down this button to reset the generator s electrical output when safe to do so faster reducing the applied load or rectifying the electrical fault that has caused an overload trip. They are ideal as a backup power supply in the event of mains power failure or as a remote area power supply for use when camping, caravanning or working out in the field. Changing Engine Oil Tools required - igen1200, 2200 & 2500: Phillips head screwdriver and oil drain pan or oil extractor vacuum pump. Turn the fuel cap vent to the OFF position (igen1200, 2200 & 2500). Never use the generator to power medical support equipment. Use a damp cloth which has been soaked in a mixture of household detergent and warm water and then wrung out to remove excess liquid. See Checking Engine Oil and Adding Engine Oil for instructions on checking engine oil level and the procedure for adding engine oil. Fuel and Choke Control Switch: Turn the knob to the CHOKE position before starting the generator if its engine is cold. Disconnect the battery charger s positive (+) alligator clip or terminal clamp (red) from the positive (+) terminal on the battery. Move the choke lever rightwards to the START position if starting a cold engine (see Figure 15). Turn the fuel cap vent to the ON position (igen1200, 2200 & 2500). Insert the battery charger s power supply plug into one of the generator s 240-Volt AC outlet sockets and then switch the battery charger ON. igen4500: Phillips head screwdriver and 10 mm socket wrench. Hour Meter: Continuously displays the cumulative running hours whenever the generator is operating. Figure 15 Choke Lever in the START Position 4. If the oil reaches the bottom lip, then it s at the high level. Pull down on the battery strap clip and unhook it from the mounting base (see Figure 9). 4. Once removed, place the oil fill plug on a clean surface. Avoid cutting on or near staples to prevent personal injury. Figure 37 Removing the Air Filter Element 6. Turn the fuel control switch to the ON position. Attempting to start the engine before adding engine oil can permanently damage internal engine components. ECO mode should only be used once the generator has reached normal operating temperature after running for at least five minutes. igen1200, 2200 & 2500: Stop and re-start the generator. Take protective measures and wear protective clothing and equipment. Table 2: Advanced Maintenance Schedule - Authorised Westinghouse Service Dealer Performed Maintenance Item After 250 Hours or Every Year * After 500 Hours or Every 2 Years * Valve Clearance Check / Adjust Combustion Chamber Clean * Whichever occurs first. Figure 18 Fuel and Choke Control Switch in the CHOKE Position 2. If the oil is above the bottom lip and flows out of the hole, then it s too full and the excess must be drained out. Allow the unit to cool down and then move it to a clean, dry place for storage. Remove the generator to a flat surface. Use the screwdriver to loosen the fuel drain screw and then carefully drain the fuel out (see Figure 50, 51 or 52, as applicable). Move the generator to a flat, level surface. Let engine sit and cool for several minutes (allow crankcase pressure to equalize). Then pull down on the battery strap clip and hook it onto the mounting base. FUEL STRAINER MAINTENANCE Check and clean the fuel strainer after every 100 hours of use or 6 months. Table 1 provides a summary of routine inspection procedures and simple maintenance tasks that can be performed by someone with mechanical proficiency using commonly available hand tools. Do not operate in a confined area where exhaust gases, smoke or fumes could reach dangerous concentrations. In ECO mode, the generator senses the electrical load demand and adjusts the engine speed and power output to match it; if there is no electrical load connected, the engine speed drops down to idle. When starting large inductive loads such as an air conditioner or pump, ECO mode should be switched off so that the engine speed will be kept higher for maximum electrical starting power availability. Frame Terminal: The frame terminal can be used by a licensed electrician to earth the generator if necessary. 3238 MAINTENANCE 6. See 240-Volt AC Extension Cords for detailed instructions concerning their selection and use. A fully charged battery will have an open circuit voltage of at least 12.6 V and an electrolyte specific gravity of at least 1.260. In the absence of any state of charge tools, stop the charging after approximately three hours and check whether the battery is capable of powering the required application, e.g. to start a car s engine. NOTE: Indicates a procedure, practice or condition that should be followed in order for the generator to function in the manner intended. 3036 MAINTENANCE SPARK ARRESTER MAINTENANCE Tools required igen2200 & 2500: Phillips head screwdriver and wire brush. Allow oil to drain completely. For example, a 900 W angle grinder can be assumed to have a starting power demand of at least 1,080 W. Always check the gap of a new spark plug before installing it. Never operate the generator in an enclosed area. If the oil level becomes too low, the engine will shut down automatically and cannot be restarted until the oil is filled to the proper level. 15. Always use the specified engine oil. WARNING Petrol fuel liquid and vapours are extremely flammable and explosive under certain conditions.

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