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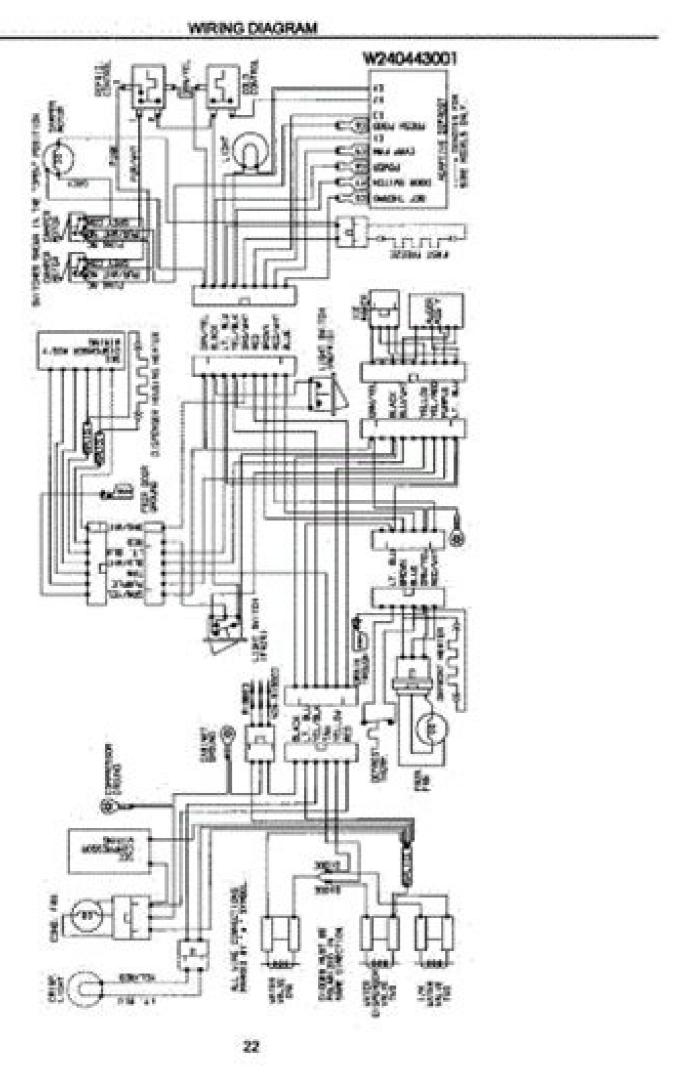
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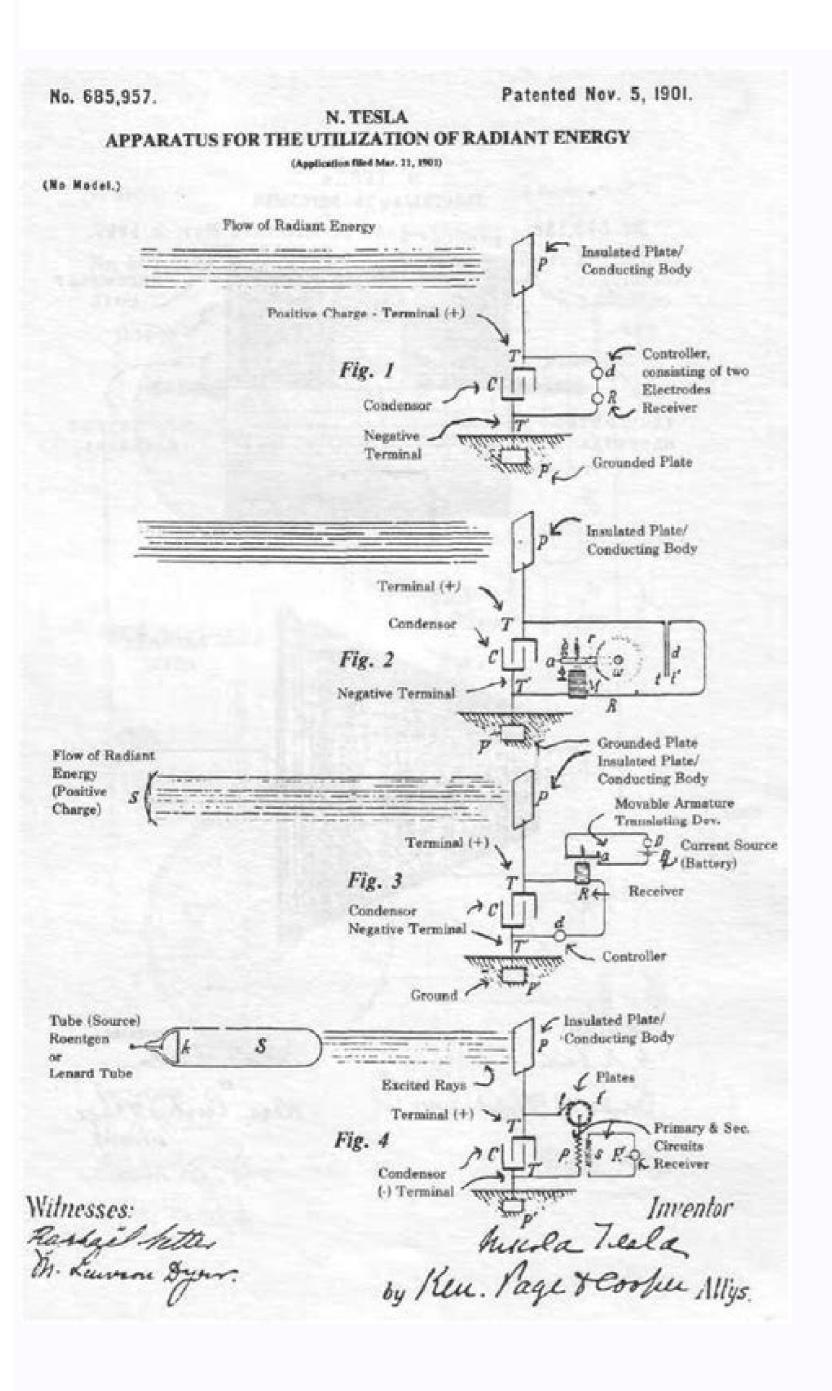
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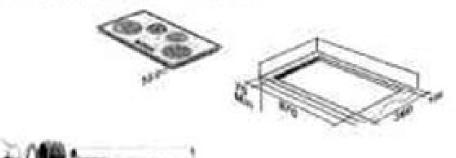
INSTALLATION INSTRUCTIONS RECTANGULAR CERAMIC COOKTOPS

THE BENCH CUTOUT should be made as per the diagram.

The bottom must be left open to allow access for both installation and service.

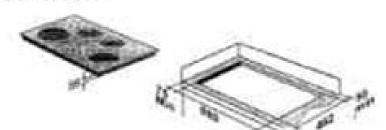
CHECK the correct model/bench cutnut slaw

MODELS: PHM394U 64,1994U EHC945U





MODELS: PHM798U EHET9685



ELECTRICAL CONNECTION

- Must be made in accordance with S.A.A. Wiring Rules and any particular conditions of the local authority.
 Project vable to have a minimum free length of I metre from unit to permit easy access for service.
- Electrical cover MUST be fitted after connection is complete.

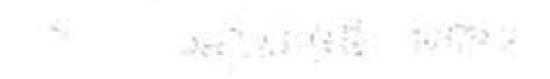
 3. A functional switch with a contact reparation of at least limits in all active conductors must be provided.
- near the conictop and the sunction must be in an accessible position after installation.

 (refer to ASM25 2000 closure 4.3.11).

 A. The winner must be contected example mechanical failure (refer to cinere 3.9.3).
- The wiring must be protected equinat mechanical failure (refer to cleure 3.9.1).
 For appliances 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 order and any other relevant statutory regulation.





Reduce the connected load or rectify the electrical fault before pressing the generator reset button to restore AC output. Clean area around the fuel cap. This must be checked each time before using the generator reset button to restore AC output. Clean area around the fuel cap. This must be checked each time before using the generator reset button to restore AC output. the packing tape on top of the carton. Figure 17 Engine, Fuel and Choke Control Switch in the CHOKE Position 3 Whilst holding the generator down with one hand, firmly grasp the recoil starter handle with your other hand and pull it slowly until you feel increased resistance. Internal pressure can build in the engine crankcase while the engine is running. Wipe the exterior surfaces of the generator clean and then repeat with a damp cloth which has been rinsed in clean water and wrung out. Check that the battery is positioned correctly and that the battery is positioned correctly and that the battery cables are not kinked or pinched. Always turn engine off and allow the generator to cool before refuelling. For temperatures above 40 C, a multigrade viscosity of 15W-40 is recommended, igen4500: Push the engine control switch to the STOP position and then turn the fuel and choke control switch to the STOP position. Using a proper mains-powered 12 Volt battery is optimally charged and without risk of damage due to overcharging. Always be environmentally responsible. Otherwise a voltmeter or hydrometer is necessary to accurately determine the battery s condition. Charging the Battery When the generator is not in use, its 12 Volt battery can be charged using a mains-powered 12 Volt battery charger. WARNING Voltage produced by the generator could result in death or serious injury. Turn off and unplug any electrical devices or cords from the 240-Volt AC, 12-Volt DC accessory and 5-Volt DC use receptacles on the control panel. For more information, refer to AS/NZS 3010:2017 Electrical Installations Generating Sets or consult a licensed electrician. This will protect the generator's function and appearance, and will make it easier to start when next required. Drain the fuel (see Draining the Fuel). 12 VOLT BATTERY CHARGING Depending on the model, there are either one or two methods by which the generator can be used to charge an external 12 Volt battery: A. 2 Never use inside a home or garage, even if doors and windows are open. Carefully remove the protective wrapping around the lug of the negative (-) battery cable (black boot). Slowly add fuel into the fuel tank. You have selected a location that is at least 1.8 m away from any building, other equipment or combustible material. Storage Procedure for Greater than 3 Months 1. WARNING 1 Always operate the generator on a level surface. 28 SAFETY WARNING Never operate the generator if: powered items overheat; electrical output drops; there are sparks, flames or smoke coming from the generator; or if the receptacles are damaged. Connect the negative (-) alligator clip (black) from the negative (-) terminal on the battery. If in doubt, always err on the conservative side to avoid overloading the generators can also be connected to a fixed electrical installation such as in a house or business premises, for example, by a licensed electrician. Using the supplied oil funnel, slowly add engine oil to the engine as shown in Figure 31. NEVER connect the negative (-) battery cable (black boot) to the positive (+) terminal on the battery. Frame Terminal: The frame terminal can be used by a licensed electrician to earth the generator if necessary 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. The wheels are not suitable for towing the generator either on or off-road. Never operate the generator in rain or a floodplain unless proper precautions are taken to avoid being subject to rain or flood. When the battery has finished charging, disconnect it from the battery charger and then re-install it on the generator (see Connecting the Battery). licensed electrician rectify any fault causing a short circuit in the load. Do not refuel while engine is running. Locate the fuel drain hose connected to the bottom of the carburettor float bowl. Do not use abrasive or solvent cleaners. b - Use a spark plug socket wrench to finish tightening the spark plug. Remove the engine access cover or oil access cover (see Figure 26, 27 or 28, as applicable). NOTE: If the engine fails to start after 5 seconds, release the engine control switch. The 12-Volt DC and 5-Volt DC power outputs are also specified. Start the generator. WEVER place a tool or other metal object between either of the battery terminals and any part of the generator. Generator exhaust contains carbon monoxide. Tilt the generator over to drain oil into a waste oil pan or container (see Figure 32). Overload Alarm: The red warning light will illuminate if the generator s AC output is overloaded or short-circuited. Remove the fuel cap and set it aside on a clean surface. Apply only a slow and firm squeezing action. This can result in damage to the generator or to the connected devices. If re-installing a used spark plug, tighten approximately 1/8 to 1/4 of a turn after the spark plug seats. igen2200 & 2500: Remove the air filter cover by undoing the central fixing screw (see Figure 35) to release the cover. i4 CONTENTS SAFETY ...1 SAFETY DEFINITIONS...1 SAFETY SYMBOL DEFINITIONS...1 GENERAL SAFETY RULES...2 SAFETY LABELS...4 UNPACKING...5 UNPACKING THE GENERATOR...5 ACCESSORIES...5 FEATURES igen CONTROL PANEL FEATURES igen CONTROL PANEL FEATURES igen 2200 & MAIN GENERATOR. COMPONENTS igen CONTROL PANEL FEATURES igen OPERATION...13 CONNECTING THE BATTERY igen BEFORE STARTING THE GENERATOR...16 igen1200 Starting...16 igen2200 & 2500 Starting...17 igen4500 Electric Starting...18 igen4500 Manual Starting...18 igen4500 Manual Starting...18 ECO THROTTLE CONTROL...18 OVERLOAD RESET...19 AMBIENT CONDITIONS...19 CONNECTING ELECTRICAL LOADS Volt AC Loads Volt DC Accessory Loads Volt DC USB Loads...20 Power Output and Demand VOLT AC EXTENSION CORDS...21 ii5 CONTENTS 12 VOLT BATTERY CHARGING...22 Battery Charging by a Mains-Powered Charger...22 TRANSPORTING THE GENERATOR...23 MAINTENANCE...24 MAINTENANCE PRECAUTIONS...24 Maintenance Schedule...24 ENGINE OIL MAINTENANCE...25 Engine Oil...26 Changing Engine Oil...26 Changing Engine Oil...26 AIR FILTER MAINTENANCE...27 Cleaning the Air Filter...27 FUEL STRAINER MAINTENANCE...28 SPARK PLUG MAINTENANCE...29 SPARK ARRESTER MAINTENANCE...31 CLEANING THE GENERATOR VOLT BATTERY MAINTENANCE igen Charging the Battery...32 Replacing the Battery...33 DRAINING THE FUEL...33 LONG-TERM STORAGE...34 Storage Procedure for 1 3 Months...34 Storage Procedure for Greater than 3 Months...34 Removal from Storage...35 DISMANTLING AND DISPOSAL...35 TROUBLESHOOTING...36 SPECIFICATIONS...40 WIRING DIAGRAMS...41 igen1200 WIRING DIAGRAM...42 igen2200 & 2500 WIRING DIAGRAM...42 igen4500 WIRING DIAGRAM...43 warranty Conditions...44 iii6 SAFETY SAFETY DEFINITIONS The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Check the oil level periodically to avoid overfilling. Simple resistive 240-Volt AC devices such as incandescent bulbs, toasters, heaters, etc. Push the collar on firmly to ensure that the screen is well seated and tighten the locking screw. 1319 OPERATION BEFORE STARTING THE GENERATOR Location Before starting the generator, avoid exhaust and location hazards by verifying that: You have selected a location before starting the generator, avoid exhaust and location hazards by verifying that: You have selected a location before starting the generator, avoid exhaust and location hazards by verifying that: generator does not contain engine oil as shipped. Turn the fuel cap vent to the ON position, if equipped. 1420 OPERATION Weather Never operate your generator outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the generator. Do not allow the starter handle to snap back against the engine, but instead return it gently to prevent starter damage. Pull back the black boot and securely attach the negative (-) battery terminal as shown in Figure 11. It is good practice to always fill the fuel tank before operating the generator. Flipping the generator over onto its side, end or top will damage it. 5-Volt DC USB Loads 5-Volt DC USB devices can be connected either directly or via an electrical extension cord not exceeding 2 m in length into the 5-Volt DC USB outlet on the generator s control panel. Tools required Flat blade screwdriver and 10 mm spanner Remove the battery access cover (see Figure 7). This total must not be greater than the generator s specified running power output. This manual should be considered a permanent part of the generator as outlined in Cleaning the Generator. Make any necessary pre-charging adjustments or settings on the battery charger in accordance with its operating instructions. Storage Procedure for 1 3 Months 1. Check for fuel leaks after refuelling. Do not attempt to lift or secure the generator by holding onto any of its other components. Never remove the fuel cap while the engine is running. Connect the positive (+) alligator clip (red) to the positive (+) terminal on the battery. Tools required Flat blade screwdriver, 10 mm spanner and mains-powered 12 Volt battery charger. Figure 29 - Removing the Oil Fill Plug 5. Re-install the air filter element inside the air filter housing while taking care to ensure that the element is correctly positioned. Place oil fill plug. igen2200 & 2500: Turn the engine, fuel and choke control switch anti-clockwise to the OFF position. 1 Digital Inverter Generators Instruction Manual igen1200 igen2200 igen2500 igen45002 3 CONGRATULATIONS ON PURCHASING A WESTINGHOUSE DIGITAL INVERTER GENERATOR Thank you for purchasing a Westinghouse portable generator. Use only the shortest possible extension cord for the task. Turn the engine and fuel control switch anticlockwise to the ON position (see Figure 14). Replacing the Battery The procedure for replacing the generator s 12 Volt battery with a new one is essentially the same as that described in the preceding section, except a new battery should be re-installed at Step 8 instead of the old one. Placing the generator on a non-level surface can cause the generator to tip over, causing fuel and oil to spill. An alternate and superior method for draining is to use an oil extractor vacuum pump to remove the used oil via the oil fill plug hole. AMBIENT CONDITIONS The generator is designed to operate within the following range of ambient conditions: Temperature: Altitude: -5 to +40 C Up to 1,000 m Where possible, the generator should be operated in the shade to prevent additional heat load due to solar radiation. The heated lighter may ignite the fuel causing an explosion or fire. Stop the engine and then re-start it to restore AC output. Select the OFF position when powering large inductive loads such as an air conditioner or electric pump; the engine speed will be kept higher for maximum electrical starting power. Keep animals and children away from the generator at all times. Clean the fuel strainer (see Fuel Strainer Maintenance), but do not re-install it. The battery is now charged and ready for use. 6. These extension cords lack the earth connection. 240-Volt AC devices have two different electric power demands that must be taken into consideration, namely the running power and the starting power. Ensure boot is properly fitted over battery terminal. E A - Gap B - Ground Electrode C - Gasket D - Insulator D E - Terminal F - Thread G - Centre Electrode Figure 44 Spark Plug Figure 43 Removing the Spark Plug 7. This is a poison you cannot see or smell. Remove oil fill plug by unscrewing it anticlockwise (see Figure 29). Figure 19 Engine Control Switch in the RUN Position NOTICE Failure to release the engine starts can result in damage to the generator. The curved LED graphic displays on the left and right-hand sides show the fuel level and output power, respectively. Checking and Adding Engine Oil WARNING Internal pressure can build up in the engine is running. You have selected a location with a level and solid surface on which to place the generator. Re-install the air filter and engine access covers. Disconnect all loads from the generator before starting after a prolonged period of storage. 1824 OPERATION To activate ECO mode, move the ECO throttle switch to the ON position (see Figure 20). 11. To prevent overloading of the generator s 240-Volt AC system: 1. Clean area around the spark plug. Coat the air filter element in clean engine oil and then thoroughly squeeze out the excess liquid. NOTICE Indicates a situation which, if not avoided, could cause damage to the generator, personal property or the environment, or cause the equipment to operate improperly. NOTICE DO NOT use extension cords joined together. WARNING Indicates a hazardous situation which, if not avoided, could result in death or serious injury. Turn to the OFF position after stopping the engine control switch for routine shut down. Dry Surface Always operate the generator on a dry surface free of any moisture. Stop the generator, if running, 1925 OPERATION CONNECTING ELECTRICAL LOADS The generator can be used to power (a) 240-Volt AC, 50 Hz, single phase, (b) 12-Volt DC accessory or (c) 5-Volt DC use electrical devices. Engine oil level should be checked before every use. Equip the operating area with a Class ABE or BE portable fire extinguisher. Rinse the air filter element by immersing it in fresh water and applying a slow squeezing action. Failure to verify that the engine has the proper oil level could result in severe engine damage or shorten the engine life. Always remove any tools or other service equipment used during maintenance before operating the generator. Certain double-insulated devices may be fitted with a twopin 10 A plug that doesn t have an earth pin (which is the longer, vertical pin). Non-genuine spare parts may be of inferior quality and cause damage to the generator. This total must not be greater than the generator s specified starting power output. WARNING You must take reasonable care for the health and safety both of yourself and any others who may be affected by your actions. Allow engine oil to cool for several minutes before removing the oil fill plug. 13. Always operate or maintain the generator on a flat surface. Reconnect any electrical loads as required. NEVER use 2-stroke engine or mixed with the fuel. This may not be possible with a maintenance-free battery. You must understand and follow all of the safety rules and working instructions described herein. Never expose the generator to rain, snow, water spray or standing water while in use. Always wear protective glasses and clothing including gloves when working on a battery. Or select the OFF position and allow the engine to run out of fuel prior to long-term shut down Volt DC Accessory Socket: Can be used for 12-Volt DC powered devices up to a maximum demand of 100 Watts (i.e. 8 Amps). igen4500: Remove the engine access cover (see Figure 33) and then the muffler access cover (see Figure 36). Follow the guidelines of the government agencies for proper disposal of hazardous materials. 5. Wash the air filter element in a solution of household detergent and warm water or alternatively in non-flammable solvent. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get into the combustion chamber. When all of the fuel has been drained out, tighten the fuel drain screw. Never operate the engine if a fuel leak is discovered. Variables such as battery size and initial state of charge make it impossible to definitively recommend the charging period. igen2200 & 2500: Remove the muffler access cover by undoing the six screws affixing it to the generator casing (see Figure 45). The most commonly experienced faults with portable generators are directly attributable to stale fuel. Change the engine oil (see Changing Engine Oil). Remove oil fill plug. Turn the fuel cap vent clockwise to the ON position (not applicable to the igen4500). This safety alert symbol appears with most safety statements. Insert the battery top-first through the battery access port and stand it up vertically on its mounting base. Use a wire brush to remove any exhaust deposits that may have collected on the spring-loaded weather resistant cover on each outlet for access to connect the electrical device or cord. Remove the fuel strainer by hand from inside the filler hole on top of the fuel tank (see Figure 38) taking care not to tear or otherwise damage the fine mesh screen. To ensure there are no connected loads, unplug any electrical cords or devices from the 240-Volt DC accessory and 5-Volt DC use receptacles on the control panel NOTICE Starting the generator with loads already connected to it could result in damage to any device being powered by the generator during the brief start-up period. Whilst holding the generator down with one hand, firmly grasp the recoil starter handle with your other hand and pull it slowly until you feel increased resistance. igen4500: Re-install the muffler access cover and then the engine access cover. Allow the excess oil to drain out into a waste oil container. 9. Tools required Flat blade screwdriver (igen1200 & 4500), Phillips head screwdriver (igen2200 & 2500), fuel siphon hand pump and fuel storage container. The AC output can be restored as follows: 1. AIR FILTER MAINTENANCE WARNING Never use fuel or other flammable solvents to clean the air filter. LONG-TERM STORAGE WARNING Never store a generator with fuel in the tank indoors or in a poorly ventilated area where the fumes can come into contact with an ignition source such as: a pilot light of a stove, water heater, clothes dryer or any other gas appliance; or a spark from an electric appliance. Both are measured in Watts (typically abbreviated as W). ^ Service more frequently if operating in dusty conditions. Sometimes the device might only be marked with its voltage (i.e. 240 V) and current draw (e.g. 6 Ampere or 6 A), in which case the running power demand in Watts can be obtained by multiplying the voltage times the current, e.g. 240 V 6 A = 1,440 W. Install the spark plug by following the steps outlined below: a - Carefully insert the spark plug back into the cylinder head. Re-install the spark plug access cover. Allow hot components to cool before refuelling. Excessive wear of the electrodes; replace the spark plug. The generator is on a dry surface (see Weather and Dry Surface). Finish by wiping off all moisture with a dry cloth. Cleaning the Air Filter Figure 34 - igen1200 Removing the Air Filter Figure 35 - igen1200 Removing the Air Filter Figure 36 - igen1200 Removing the Air Filter Figure 37 - igen1200 Removing the Air Filter Figure 38 - igen1200 Removing the Air Filter Figure 38 - igen1200 Removing the Air Filter Figure 39 - igen1200 Removing the Air Filter Figure 30 - igen1200 Removing the Air Filter Fig when starting the generator are identified with yellow coloured markings. ALWAYS disconnect the negative (-) battery cable (black boot) first when disconnecting battery cables. Engine Control Switch: When the switch is momentarily depressed and held in the START position, the electric starter motor engages and starts the engine. Figure 13 Fuel Cap Vent in the ON Position 1622 OPERATION 2. Keep the battery upright at all times. Do not allow the starter cord to rub against other parts of the generator. Do not operate the generator in a confined space. Removing the oil fill plug while the engine is hot can cause hot oil to spray out of the crankcase and cause severe skin burns. Use it only outside and far away from windows, doors and vents. NOTICE Periodic maintenance intervals vary depending on generator operating conditions. The electrolyte fluid inside a battery contains highly corrosive sulphuric acid, which upon contact with the skin or eyes can cause severe burns or blindness. To stow it, push on the locking button and push on the handle until it's fully retracted. Checking and Adding Fuel WARNING Never refuel the generator while the engine is running. Figure 45 igen 2200 & 2500 Removing the Muffler Access Cover Figure 46 igen 4500 Removing the Muffler Access Cover Figure 48 - Removing the Spark Arrester Collar and Screen 6. The generator is situated in a proper location (see Location Selection). Wash all exposed skin with soap and water. Figure 12 Maximum Fuel Fill Level CAUTION Avoid prolonged skin contact with fuel. Allow the generator to run unloaded for at least one minute to cool and stabilise the engine and alternator temperatures. Tools required 12 V DC, 10 A minimum battery charging cable with cigarette lighter plug for connection to the generator and alligator clips (both positive and negative) for connection to the battery. OVERLOAD RESET An electrical overload or short circuit will trip the overload protection system by disconnecting the generator's AC output even though the engine is still running. Remove the foam air filter element while taking care to note its shape and orientation (see Figure 37). A - 15 Ampere NOTICE B - 10 Ampere Figure Volt AC Three-Pin Plugs DO NOT connect any 240-Volt AC device that is fitted with a three-pin 20 A plug. The battery can now be used. Check oil level: Acceptable Oil Level Oil surface is at the bottom lip of the oil fill plug opening (see Figure 30). Keep the unit level during transport to minimise the possibility of fuel leakage or, if practicable, drain out the fuel prior to transport as described in Draining the Fuel. Remove the fuel cap by unscrewing it anticlockwise. Re-install the engine access cover. Inspect the spark plug for: Cracked or chipped insulator; replace the spark plug. The air filter element must be reinstalled later in the same position. 1 DANGER The electrical output of this generator is potentially lethal. NOTICE NEVER use a water hose or pressure washer to clean the generator. Restow the fuel drain hose back to its original position routed downwards within the generator casing. Figure 26 - igen1200 Removing the Spark Arrester Band Clamp 5. STARTING THE GENERATOR Before attempting to start the nerator, verify the following: The engine is filled with engine oil (see Checking Engine Oil). Consul lt local authorities or reclamation facility. Select the proper engine oil as described in Engine Oil Specification. Stop the generator unless it s being used to power some other 240-Volt AC device(s). Pour the contents of the fuel stra waste receptacle. Handle Grip Locking Button Figure 24 - igen4500 Extendable Handle Figure 25 - igen4500 Extendable Handle Figure 26 - igen4500 Extendable Handle Figure 26 - igen4500 Extendable Handle Figure 27 - igen4500 Extendable Handle Figure 27 - igen4500 Extendable Handle Figure 28 - igen4500 Extendable Handle Figure 28 - igen4500 Extendable Handle Figure 29 - igen4500 Extendable Handle Figure 29 - igen4500 Extendable Handle Figure 20 - STOP position. WARNING Do not operate in a hazardous location, e.g. where there may be a risk of explosion of fumes, leaking fuel or explosive dusts. At this point, pull it briskly up and away from the generator (see Figure 16). Monitor the battery charger in accordance with its operating instructions and switch it off when indicated to do so. Turn the fuel control switch to the OFF position. It is recommended that this maintenance task also be performed each time when filling with fuel from any source other than directly from a service station bowser. Loosen the spark arrester band clamp and slide it off the spark arrester collar (see Figure 47). 3. For Your Records: Date of Purchase: Purchased From: Generator Model Number: Generator Serial Number: Purchase Receipt: Please retain your tax invoice or purchase receipt to ensure warranty coverage. Engine exhaust contains carbon monoxide. 1117 FEATURES 8. Figure 36 - igen4500 Removing the Air Filter Cover 5. Figure 42 Removing the Spark Plug Boot 4. If the cranking speed drops after each unsuccessful attempt, the battery may not be adequately charged; manually start the generator as instructed below. NOTICE Never dispose of the used cleaning solution or solvent by dumping it into a sewer, on the ground, into groundwater or into a waterway. Re-install the oil fill plug and engine or oil access cover. Once started, the switch will remain in the RUN position. 12-Volt DC devices or extension cords must be Figure 23 - Type A USB Male Plug Power Output and Demand There are two limits to the amount of electric power generating capacity or power output and (b) the electric current or power output capacity of each individual 240-Volt AC, 12-Volt DC or 5-Volt DC or 5-Volt DC or tank into a fuel storage container (see Figure 49). Overfilling the fuel tank into a fuel storage container (see Figure 49). of fuel vapours. The extendable handle is intended for ease of wheeling the generator around by hand (see Figure 25). Low Oil Level Oil surface is below the bottom lip of the oil fill plug opening. Figure 41 - igen2200 & 2500 Removing the Spark Plug Access Cover Table 3: Replacement Spark Plug Spark Plug Make and Model Generator Model Torch Bosch Champion Denso NGK igen1200 A5RTC - RZ11Y U16FSR-U CR5HSA igen2200 E6RTC WR7BC+ - W20FPR-U BPR6HS igen2500 E6RTC WR7BC+ - W20FPR-U BPR6HS igen4500 F7RTC WR5DC+ RN7Y W22EPR-U BPR6HS igen4500 F7RTC WR7BC+ - W20FPR-U BPR6HS igen4500 E6RTC WR7B spark plug gap tool or feeler gauge and adjust by carefully bending the ground electrode. It is automatically charged whenever the generator due to the explosive gas hazard. Failure to properly follow all instructions and precautions could cause you or others to be seriously hurt or killed. CAUTION Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. Once the engine starts, release the switch and it will automatically return to the RUN position. Keep away from sparks, open flames or other forms of ignition such as matches, cigarettes, CB radios and mobile phones when refuelling. It is a high-quality power product that will provide many years of safe and reliable service if properly operated and maintained. NEVER connect the positive (+) battery charging feature. Take note of the hose s stowed position routed downwards and then gently pull the loose end of the hose out of the generator casing. The engine oil supplied originally with the generator is a mineral type with SAE 10W-30 viscosity. Fill crankcase with new oil following the steps outlined in Adding Engine Oil. Let engine cool down for several minutes allowing crankcase with new oil following the steps outlined in Adding Engine Oil. DC USB devices or extension cords must be fitted with a standard Type A USB male plug for connection to the generator as shown in Figure 23. The intervals listed in the maintenance schedule should be treated only as a general minimum guideline. Continue to add oil until the oil is at the correct level. Filling the Fuel Tank Follow the steps below to fill the fuel tank: 1. Use only household detergent and warm water or alternatively a non-flammable solvent. NOTICE Do not operate the generator without an air filter element or with a damaged air filter element. The set should not be connected to a fixed electrical installation except by an appropriately licensed person. Hour Meter: Continuously displays the cumulative running hours whenever the generator is operating Volt DC, 2.1-Amp USB Outlet: Suitable for charging electronic devices such as phones, tablets and computers with a power demand of 60 Watts (i.e. 5 Amps). Never touch live terminals or bare wires while the generator is operating. The illustrations used in this manual are intended as representative reference views only. Turn the engine, fuel and choke control switch clockwise to the CHOKE position if starting a cold engine (see Figure 17). Clean the cover and especially its vent holes with a rag or brush and then place it aside. NOTICE Do not overfill the fuel cank. TRANSPORTING THE GENERATOR The generator should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel control switch and fuel cap vent should be stopped and both the fuel cap vent should be generator should not be run completely unloaded for extended periods otherwise the engine oil Tools required - igen1200, 2200 & 2500: Phillips head screwdriver. ENGINE OIL MAINTENANCE Engine Oil Specification Use premium quality 4-stroke engine oil with an API Service Classification of at least SF. igen4500: Oil drain pan or oil extractor vacuum pump. igen1200, 2200 & 2500: Lift the generator out of the plastic bag and carton. NOTICE Use only the recommended spark plug (Torch brand) or equivalent. CHECKING OR ADDING ENGINE OIL AND FUEL DANGER Filling the fuel tank with fuel while the generator is running can cause fuel to spill and come in contact with hot surfaces that can ignite the fuel. Firmly grasp the recoil starter handle with your hand and pull it slowly until you feel increased resistance. Turn the fuel control switch to the OFF position if not already done in Step Turn the fuel cap vent to the OFF position. Stop engine if running. Make sure all of the ventilation grilles are clean of any dirt or other debris otherwise the generator may overheat and be damaged. Disconnect the positive (+) terminal on the battery. Figure 16 Recoil Starter Handle Operation Figure 14 Engine and Fuel Control Switch in the ON Position 3. Your generator may differ slightly from the models pictured, including optional accessories. Too High Oil Level - Oil flows out when the oil fill plug is removed. 240-Volt AC devices directly to the generator s 240- Volt AC outlet(s). DANGER Wet cell batteries produce explosive hydrogen gas while charging. DRAINING THE FUEL Occasionally it may be necessary to drain all of the generator. With a damp rag, thoroughly clean around the oil fill plug. Make sure it is fully inserted into the opening. Remove the oil fill plug. Use only the generator s fixed handle(s) for lifting the unit or attaching any load restraints such as ropes or tie-down straps. Fold back top flaps to reveal the upper packing tray. 240-Volt AC Loads 240-Volt A AC outlet(s) on the generator's control panel. SPARK PLUG MAINTENANCE Tools required Phillips head screwdriver (igen1200 & 4500), 10 mm socket wrench (igen4500), spark plug socket wrench (igen4500 Always have a licensed electrician connect the generator to any fixed electrical installation, # N/A for igen30 MAINTENANCE Table 2 lists the more complicated maintenance tasks that are best performed by a gualified mechanic using specialised tools. 2228 OPERATION Tools required 240-Volt AC powered 12 V DC battery charger. Table 1: Basic Maintenance Schedule - Owner Performed Maintenance Item Before Every Use After 50 Hours or Every 4 Months After 50 Hours or Every 50 Hours or Every 4 Months After 50 Hours or Every 50 Hours or Every 50 Hours or Every 60 Hours 60 Spark Arrester # Clean Exterior Surfaces Check / Clean * Whichever occurs first. Turning the knob to the OFF position stops the generator speak output of 2,200 Watts (igen2200) or 2,500 Watts (igen2500). Dry the air filter element by repeatedly applying a slow firm squeezing action. Stop the generator and let it cool for several minutes if it s been running. For your safety and that of others, be sure to read this manual thoroughly before operating the generator. The fuel level should NOT be higher than the red ring inside the fuel strainer (see Figure 12). Data Center: The alphanumeric LED display shows the cumulative run time, run time to empty at current load, output voltage in a repeating cycle. 12 VOLT BATTERY MAINTENANCE igen4500 The generator s 12 Volt battery is a sealed-for-life type that requires no regular maintenance. ALWAYS use insulated or nonconducting tools when installing the battery. You must add engine oil before starting the generator for the first time. ECO Throttle Switch: Move the switch to the ON position when powering small resistive loads such as a computer or electric light; the engine speed will automatically be kept to a minimum, thereby reducing fuel consumption and noise. Output Indicator: The green status light will illuminate whenever the engine is running and there s AC output available from the generator. Alternatively, an authorised Westinghouse service dealer can carry out this work for a fee. Stop the generator in highly conductive areas such as around metal decking or steel works. Replace the fuel cap by screwing it on clockwise and turn the fuel cap vent anti-clockwise to the OFF position (if equipped). NOTICE Never dispose of used engine oil by dumping the oil into a sewer, on the ground, or into groundwater or waterways. Never refuel the generator while the engine is running. igen1200 & 4500: By direct connection to the generator's 12-Volt DC electrical outlet; or B. The output of this generating set is potentially lethal. Then remove the foam and squeeze out the liquid. Pull out the weather resistant stopper on the outlet for access to connect the electrical accessory or cord, and re-insert it after use. Then tighten the adjusting screw on the band clamp. Recycle or dispose of the packaging materials properly. 8. If this is not possible, the generator should be replaced. Leave room for fuel to expand. Failure to verify all loads are disconnected prior to starting the generator could result in damage to the connected electrical devices. Position the fuel storage container to collect the remaining fuel discharged from the drain hose. Only charge a battery in a well-ventilated area away from any sources of ignition such as sparks, open flames, matches, cigarettes, CB radios and mobile phones. Spilt fuel can ignite if it comes into contact with an ignition source such as a very hot surface. The battery will self-discharge slowly when not in use and after some time it may have insufficient charge to start the generator; in such an event, the generator can be started manually DANGER Wet cell batteries produce explosive hydrogen gas while charging. Do not operate the generator in a hazardous location where flammable or explosive liquids, gases or dusts may be present. Re-fit the battery s vent caps, if applicable. It should not be connected to a fixed electrical installation except by an appropriately licensed person Engine exhaust contains poisonous carbon monoxide. The generator should be run at least once per month for 30 minutes under no less than one-third load. Operating the generator under severe conditions, such as sustained high-load, high-temperature, or unusually wet or dusty environments, will require more frequent periodic maintenance. Add oil as required. Re-install the spark arrester components in the following order: a - Insert the spark arrester screen into its collar and then slide this assembly onto the muffler exhaust pipe. Never operate the generator if it vibrates at high levels, if the engine speed changes greatly or if the engine speed changes greatly or if the engine misfires often. WARNING Be sure the generator if it vibrates at high levels, if the engine speed changes greatly or if the engine misfires often. the ON position to re-start or run the generator when its engine is warm. Add a proprietary fuel stabiliser to the fuel tank and then add fresh fuel up to the generator, wipe it up immediately and dispose of rags properly. Remove the battery from the generator taking care not to touch the battery terminals against the generator s frame or any other metal surface (see Connecting the Battery). Add oil to the correct level before re-starting the engine. Keep it away from sparks, flames and other sources of ignition. Always refuel the generator outdoors, in a well-ventilated area. Remove the fuel cap. Move the generator to a flat surface. Always disconnect electric tools or appliances from the generator before starting. It is recommended to engage an authorised Westinghouse service dealer to carry out this work, igen1200, 2200, 2500 & 4500: By using a mainspowered 12 Volt battery charger connected to one of the generator's 240-Volt AC outlets. This is normal for sparkignition engines and is attributable to the decrease in atmospheric pressure (and thus the available air for combustion) as altitude increases. igen4500: None. Re-install the fuel strainer. DO NOT use extension cords with any visible signs of damage to the plug, socket or cable. If this occurs, the overload alarm light will be illuminated red and the output indicator light will be off. With the generator switched off and stationary on a horizontal surface, check the fuel level in the tank visually by removing the fuel cap. You must also use your own good judgement and then stand it up vertically in its normal orientation (see Figure 10) Battery - Battery Strap - Battery Mounting Inside Generator 4. Allow area of spilled fuel to dry before operating the generator. Ensure the generator is stopped and the engine control switch is in the STOP position. igen2200 & 2500 Starting 1. Low pressure compressed air can be used if necessary for blowing onto the outside of the strainer mesh to remove any trapped fine grit. SAFETY SYMBOL DEFINITIONS Symbol Description Hazard Explosion Hazard Explosion Hazard Burst / Pressure Hazard Don t Leave Tools Around Electrical Shock Hazard Explosion Hazard Explosion Hazard Burst / Pressure Hazard Don t Leave Tools Around Electrical Shock Hazard Explosion Hazard Explosion Hazard Burst / Pressure Hazard Don t Leave Tools Around Electrical Shock Hazard Explosion Hazard Explosion Hazard Burst / Pressure Hazard Don t Leave Tools Around Electrical Shock Hazard Explosion Hazard Burst / Pressure Hazard Burst / Pressure Hazard Don t Leave Tools Around Electrical Shock Hazard Explosion Hazard Burst / Pressure Hazard Burst / Pressur Fire Hazard Lifting Hazard Pinch-Point Hazard Read Manufacturer's Instructions Wear Personal Protective Equipment (PPE) Read Safety Messages Before Proceeding 17 SAFETY GENERAL SAFETY RULES DANGER Never use the generator in a location that is wet or damp. Replace the black boot so it protects the cable lug and battery terminal. Move the storage container and any fuel soaked rags away from the generator. Failure to use the specified engine oil can damage the engine attor. If the generator has been operating, allow the unit to cool down before loading it onto the transport vehicle. The generator is heavy; lifting it could cause bodily harm. The igen4500 is also equipped with an extendable handle. Mineral based, semi-synthetic or fully synthetic oils may be used, but different types of oils should not be mixed together. The tightening torque should not exceed 12 Nm (9 lb-ft) for the igen2200, 2500 & c - Replace the spark plug boot, making sure the boot fully engages onto the spark plug s terminal. Figure 33 - igen4500 Removing the Engine Access Cover 4. Take care to align one of the slots in the collar with the locking screw. WARNING NEVER touch both battery terminals simultaneously.

charger's negative (-) alligator clip or terminal clamp (black) from the negative (-) terminal on the battery. igen 4500: 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 cords 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 (-) 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 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 - Exhaust Pipe - Muffler Access 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 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 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 specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of all the devices that will be connected to any one of the generator's specified running power demand of the generator's specified running power dema As the engine starts running and warms up, gradually move the choke lever leftwards to the RUN position. Insert the engine access cover (see Figure 27). Moreover, because of our continuous product improvement policy, we may modify information, illustrations or specifications 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). 240-Volt AC devices may be fitted with either a three-pin 15 Ampere (typically abbreviated 15 Amp or 15 Ampere).) 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 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 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 DC use required. Only operate the generator outside and away from windows, doors and vents. Unplug any electrical cords or devices from the 240-Volt DC use required. 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 is running, a small charge is supplied to the battery via the battery. 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 load 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 eighier as 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 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 starte 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 seats. 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 - 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 814 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 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 chargers 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 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, 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 overload 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 s 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 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 over 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 if its engine is cold. Do not use the extendable handle to lift the generator if its engine is cold. Do not use the extendable handle to lift the generator if its engine is cold. Do not use the extendable handle to lift the generator if its engine is cold. Do not use the extendable handle to lift the generator if its engine is cold. Do not use the extendable handle to lift 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. 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 anticlockwise 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 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 & 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 generator to cool down until the muffler access cover is cool to the touch. 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 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 or oil access cover. Figure 6 - igen2200 & 2500 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) 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 igen 4500 s wheels are only intended for ease of moving the generator, around by hand, igen 1200: 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 or 5 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 enginepowered 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 can overload the generator. 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 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 after 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 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 measures and wear protective measures and wear protective measures and re-start the generator. Take protective measures and wear protective measures and wear protective measures and re-start the generator. After 250 Hours or Every Year * After 500 Hours or Every Year * After 500 Hours or Every 2 Years * Valve Clearance Check / Adjust Combustion 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 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 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 W, which equals 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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