

Title of Training	Portable Generator Training	
Equipment Info.	Make/Type/Size/Model	Honda Generator EB 3500X & EB5000X
Material Needed	Operators Manual	
	Open Well Ventilated Area to Start & Shut Down Machine	

HONDA GENERATORS ARE DESIGNED TO GIVE SAFE AND DEPENDABLE SERVICE IF OPERATED ACCORDING TO INSTRUCTIONS. YOU CAN HELP PREVENT ACCIDENTS BY BEING FAMILIAR WITH YOUR GENERATORS CONTROLS AND BY OBSERVING SAFE OPERATING PROCEDURES.

### OPERATOR RESPONSIBILITY

1. KNOW HOW TO STOP THE GENERATOR QUICKLY IN CASE OF EMERGENCY.
2. UNDERSTAND THE USE OF ALL GENERATOR CONTROLS, OUTPUT RECEPTACLES AND CONNECTIONS.

### CARBON MONOXIDE HAZARDS

1. EXHAUST CONTAINS POISONOUS CARBON MONOXIDE, A COLORLESS, ODORLESS GAS. BREATHING EXHAUST CAN CAUSE LOSS OF CONSCIOUSNESS AND MAY LEAD TO DEATH.
2. TRY TO KEEP EXHAUST GAS FROM BUILDING UP BY PROVIDING ADEQUATE VENTILATION.

### ELECTRIC SHOCK HAZARDS

1. THE GENERATOR PRODUCES ENOUGH ELECTRIC POWER TO CAUSE A SERIOUS SHOCK OR ELECTROCUTION IF MISUSED.
2. USING A GENERATOR IN WET CONDITIONS SUCH AS RAIN OR SNOW OR WHEN YOUR HANDS ARE WET, COULD RESULT IN ELECTROCUTION. KEEP THE GENERATOR DRY.
3. IF THE GENERATOR IS STORED OUTDOORS, UNPROTECTED FROM THE WEATHER, CHECK THE GROUND FAULT CIRCUIT INTERRUPTER AND ALL OTHER ELECTRICAL COMPONENTS ON THE CONTROL PANEL BEFORE EACH USE. MOISTURE OR ICE CAN CAUSE A MALFUNCTION OR SHORT CIRCUIT IN ELECTRICAL COMPONENTS WHICH COULD RESULT IN ELECTROCUTION.



### FIRE AND BURN HAZARDS

1. THE EXHAUST SYSTEM GETS HOT ENOUGH TO IGNITE SOME MATERIALS. KEEP THE GENERATOR AT LEAST 3 FEET AWAY FROM BUILDINGS AND OTHER EQUIPMENT DURING OPERATION.
2. DO NOT ENCLOSE THE GENERATOR IN ANY STRUCTURE. KEEP FLAMMABLE MATERIALS AWAY FROM THE GENERATOR.
3. THE MUFFLER BECOMES VERY HOT DURING OPERATION AND REMAINS HOT FOR A WHILE AFTER STOPPING THE ENGINE. BE

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- CAREFUL NOT TO TOUCH THE MUFFLER WHILE IT IS HOT. LET THE ENGINE COOL BEFORE STORING THE GENERATOR INDOORS.
4. GASOLINE IS EXTREMELY FLAMMABLE AND IS EXPLOSIVE UNDER CERTAIN CONDITIONS. DO NOT SMOKE OR ALLOW FLAMES OR SPARKS WHERE THE GENERATOR IS REFUELED OR WHERE GASOLINE IS STORED. REFUEL IN A WELL-VENTILATED AREA WITH THE ENGINE STOPPED. FUEL VAPORS ARE EXTREMELY FLAMMABLE AND MAY IGNITE AFTER THE ENGINE HAS STARTED. MAKE SURE THAT ANY SPILLED FUEL HAS BEEN WIPED UP BEFORE STARTING THE GENERATOR.

## CONTROLS

### ENGINE SWITCH

LOCATED TOP LEFT SIDE OF CONTROL PANEL. *OFF* POSITION TO STOP THE ENGINE. *ON* POSITION TO RUN THE ENGINE.

### RECOIL STARTER

TO START THE ENGINE, PULL THE STARTER GRIP LIGHTLY UNTIL RESISTANCE IS FELT. THEN PULL BRISKLY.

**NOTICE:** DO NOT ALLOW THE STARTER GRIP TO SNAP BACK AGAINST THE ENGINE. RETURN IT GENTLY TO PREVENT DAMAGE TO THE STARTER.

### FUEL VALVE

THE FUEL VALVE IS LOCATED BETWEEN THE FUEL TANK AND CARBURATOR. WHEN THE VALVE LEVER IS IN THE *ON* POSITION, FUEL IS ALLOWED TO FLOW FROM THE FUEL TANK TO THE CARBURATOR. BE SURE TO RETURN THE LEVER TO THE *OFF* POSITION AFTER STOPPING THE ENGINE.

### CHOKE ROD

THE CHOKE IS USED TO PROVIDE AN ENRICHED FUEL MIXTURE WHEN STARTING A COLD ENGINE. IT CAN BE OPENED AND CLOSED BY OPERATING THE CHOKE ROD MANUALLY. PULL THE ROD OUT TOWARD CLOSED TO ENRICH THE MIXTURE FOR COLD STARTING.

### VOLTAGE SELECTOR

THE VOLTAGE SELECTOR SWITCHES THE MAIN POWER CARRYING WINDINGS OF THE GENERATOR TO PRODUCE *120 V ONLY* OR *120 / 240 V*. IF A *240 V* APPLIANCE IS CONNECTED TO THE 4-PRONG

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RECEPTACLE, THE SWITCH MUST BE IN THE *120 / 240 V* POSITION. IF A *120 V* APPLIANCE ONLY IS BEING CONNECTED TO ANY OF THE *120 V*, 3-PRONG RECEPTACLES SELECT THE *120 V ONLY* POSITION. THE *120 V* AND *120 / 240 V* RECEPTACLES CAN BE USED SIMULTANEOUSLY.

### **OIL ALERT SYSTEM**

THE OIL ALERT SYSTEM IS DESIGNED TO PREVENT ENGINE DAMAGE CAUSED BY AN INSUFFICIENT AMOUNT OF OIL IN THE CRANKCASE. BEFORE THE OIL LEVEL IN THE CRANKCASE CAN FALL BELOW A SAFE LIMIT, THE OIL ALERT SYSTEM WILL AUTOMATICALLY STOP THE ENGINE. IF THE ENGINE STOPS AND WILL NOT RESTART, CHECK THE ENGINE OIL LEVEL.

### **AUTO-THROTTLE SYSTEM**

THE AUTO-THROTTLE SYSTEM AUTOMATICALLY REDUCES ENGINE SPEED WHEN ALL LOADS ARE TURNED OFF OR DISCONNECTED. WHEN APPLIANCES ARE TURNED ON OR RECONNECTED, THE ENGINE RETURNS TO THE RATED SPEED.

*AUTO* - RECOMMENDED TO MINIMIZE FUEL CONSUMPTION AND FURTHER REDUCE NOISE LEVELS WHEN NO LOAD IS APPLIED TO THE GENERATOR.

*OFF* - THE AUTO-THROTTLE SYSTEM DOES NOT OPERATE. RECOMMENDED TO MINIMIZE WARM-UP TIME WHEN THE GENERATOR IS STARTED.

### **CIRCUIT BREAKER**

THE CIRCUIT BREAKER WILL AUTOMATICALLY SWITCH OFF IF THERE IS A SHORT CIRCUIT OR A SIGNIFICANT OVERLOAD OF THE GENERATOR AT THE RECEPTACLE, OR IS THE GROUND FAULT CIRCUIT INTERRUPTER (*GFCI*) DETECTS A GROUND FAULT CURRENT.

CHECK THE FOLLOWING IF THE CIRCUIT BREAKER SWITCHES OFF AUTOMATICALLY:

1. WHEN THE *GFCI RESET* BUTTON IS EXTENDED - UNPLUG ALL APPLIANCES FROM THE RECEPTACLE AND CHECK THE APPLIANCE FOR ANY DEFECTS. AFTER MAKING REPAIRS,

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PUSH THE *GFCI RESET* BUTTON THEN TURN THE CIRCUIT BREAKER ON.

2. WHEN THE *GFCI RESET* BUTTON IS NOT EXTENDED - CHECK THAT THE APPLIANCE IS WORKING PROPERLY AND DOES NOT EXCEED THE RATED LOAD CAPACITY OF THE CIRCUIT BREAKER. TURN THE CIRCUIT BREAKER ON AGAIN. THE CIRCUIT BREAKER MAY BE USED TO SWITCH THE GENERATOR POWER ON OR OFF.

## GROUND FAULT CIRCUIT INTERRUPTER

ALL RECEPTACLES ON THE GENERATOR ARE PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER FOR PROTECTION AGAINST THE SHOCK HAZARD OF GROUND FAULT CURRENT. THE GFCI HAS TEST AND RESET BUTTONS AND IS CONNECTED TO THE CIRCUIT BREAKER.

AN EXAMPLE OF GROUND FAULT CURRENT IS THE CURRENT WHICH WOULD FLOW THROUGH A PERSON WHO IS USING AN APPLIANCE WITH FAULTY INSULATION AND AT THE SAME TIME, IS IN CONTACT WITH AN ELECTRICAL GROUND SUCH AS A PLUMBING FIXTURE, WET FLOOR OR EARTH.

THE GROUND FAULT CIRCUIT INTERRUPTER WILL NOT PROTECT AGAINST SHORT CIRCUITS OR OVERLOADS. THE CIRCUIT BREAKER IN THE CONTROL PANEL THAT SUPPLIES POWER TO THE CIRCUIT PROVIDES THAT PROTECTION.

OBSERVE THE FOLLOWING PRECAUTIONS TO ENSURE PROPER GFCI OPERATION AND TO REDUCE SHOCK HAZARDS:

1. USE GROUNDED 3-CONDUCTOR EXTENSION CORDS, TOOLS AND APPLIANCES OR DOUBLE INSULATED TOOLS.
2. INSPECT CORDS AND PLUGS. REPLACE IF DAMAGED.
3. DO NOT USE CORDS LONGER THAN 164 FT. DO NOT USE MULTIPLE TOOLS AND APPLIANCES WITH BUILT-IN NOISE FILTERS..SUCH USE MAY ACTIVATE THE GFCI AND TRIP THE CIRCUIT BREAKER.

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