



Eastern Tools & Equipment, Inc

## TG72B12 Portable Generator



**8250 Surge Watts**

**7250 Continuous Watts**

**Customer Service (888)-908-6200**

**[www.easterntools.com](http://www.easterntools.com)**

**Eastern Tools & Equipment, Inc**

**Ontario, CA U.S.A**

**Thank you** for purchasing products from EASTERTOOLS & EQUIPMENT, INC. We appreciate your business. The following manual is only a guide to assist you and is not a complete or comprehensive manual of all aspects of maintaining and repairing your generator. The equipment you have purchased is a complex piece of machinery. We recommend that that you consult with a dealer if you have doubts or concerns as to your experience or ability to properly maintain or repair your equipment. You will save time and the inconvenience of having to go back to the store if you choose to write or call us concerning missing parts, service questions, operating advice, and/or assembly questions.

**This manual will explain how to operate and service your generator set.**

Please fill out the information below. This will help you save time if you ever need to provide the following information for a warranty repair.

**GENERATOR**

**Model Number:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**ENGINE**

**Model Number:** \_\_\_\_\_

**DATE PURCHASED:** \_\_\_\_\_ Day \_\_\_\_\_ Month \_\_\_\_\_ YEAR

**TABLE OF CONTENTS**

|                        |    |
|------------------------|----|
| Safety warning         | 3  |
| Specifications/Oil     | 4  |
| Control and Features   | 5  |
| Handle and Wheel Kit   | 6  |
| Auto throttle switch   | 7  |
| Connecting the battery | 7  |
| Starting the unit      | 7  |
| Connecting loads       | 8  |
| Stopping the unit      | 8  |
| Maintenance            | 8  |
| Trouble shooting       | 10 |
| Wire Diagram           | 11 |
| Parts Diagram          | 12 |
| Warranty               | 13 |

## Safety Warning

Please read this manual to understand how to use your unit as well as understanding the risk the come with the unit.

**NOTICE** exceeding your generator wattage/ amperage coverage capacity can damage your unit as well as any devices attached to your unit.

Consumers should notice that this manual might differ slightly from the actual product as more improvements are made to our products. Some of the pictures in this manual may differ slightly from the actual product as well. Eastern Tools and Equipment, Inc. reserves the right to make changes at any time without notice and without incurring any obligation

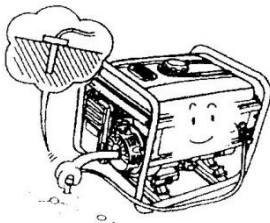
## CARBON MONOXIDE WARNING



Operate the generator **ONLY** outdoors. Never run the generator indoors as the engine gives off poisonous carbon monoxide, an odorless and colorless gas. Inhaling carbon monoxide will cause nausea, fainting or death. Also, keep the generator at least 3 feet away from flammable matter for adequate ventilation

## GROUNDING THE UNIT

Always properly ground the generator. Failing to do so can result in electrocution, particularly if the generator is equipped with a wheel kit.



## ELECTRIC SHOCK AND SHORT CIRCUIT



Be sure to notify the utility company when using the generator for backup power. Use approved transfer equipment to isolate the generator from electric utility. In highly conductive area such as metal decking or steel work, use a ground circuit fault interrupter. Never touch the generator if the generator is wet. Also, never touch the generator if your hand is wet. Never operate your generator if the weather conditions call for any type of precipitation such as rain, snow, or fog.

Do not use electrical cords that have been damaged (worn, bare, frayed)

Do not touch bare receptacles or wires

Do not allow children to operate the generator.

## FUEL SAFETY



When using the LPG generator, please be sure that there is some distance between LGP tank and the LPG generator, to prevent unnecessary danger because of the high temperature surface area of the LPG tank. When using the unit, please check the surface temperature of the LPG tank.

Place the generator in a well-ventilated area. **DO NOT** place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning generator. Please do not light a cigarette near the LPG generator.

## GENERATOR SAFETY

Do not start generator with electrical devices connected to it. Start the generator first and after the speed of the generator stabilizes, electrical loads can be applied to it.

When connecting electrical loads, make sure the devices are "OFF" first before connecting them.

Keep the same concept when disconnecting electrical devices; make sure all devices are in the "OFF" position before disconnecting.

Operate the generator on level surfaces only. Inclined surfaces reduce the effective lubrication of the engine.

Do not expose the generator to excessive moisture, dust, dirt, or corrosive vapors.

**NOTICE** poor treatment of your equipment can greatly reduce the life of the LPG generator. Use the generator for its intended usage. If you have any concerns about maintain your unit contact a local service center or called customer service (888)-696-2345. Operate the LPG generator on a level surface and do not place objects in the units recoil slots.

### Generator Specifications

|                  |                         |
|------------------|-------------------------|
| Running Wattage  | 7250 Watts              |
| Starting Wattage | 8250 Watts              |
| AC Load          | 120V/240V               |
| Phase            | Single                  |
| T.H.D.           | <5%                     |
| Weight           | 193.8 lbs. (87.9 kg)    |
| Height           | 27.625 inches (70.2 cm) |
| Width            | 20.75 inches (52.7 cm)  |
| Length           | 23.25 inches (59.1 cm)  |
| Frequency        | 60Hz                    |

### OIL

Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Remove the oil drain plug with a 15 mm socket and extension.

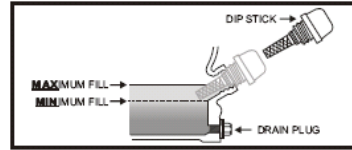
2. Allow the oil to drain completely.

3. Replace the drain plug.

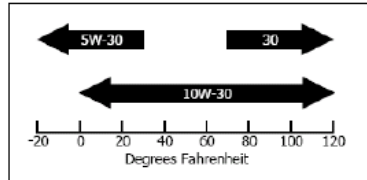
4. Remove oil fill cap/dipstick to add oil.

5. Add 33.8 oz (1 L) of oil and replace oil fill cap/dipstick.

6. Dispose of used oil at an approved waste management facility.



Oil capacity is 33.8 oz (1 L).



### SPARK PLUGS

1. Remove the spark plug cable from the spark plug.

2. Use the spark plug tool that shipped with your generator to remove the plug.

3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.

4. Make certain the spark plug gap is 0.7 - 0.8mm (0.028 - 0.031 in.).

5. Refer to the spark plug recommendation chart when replacing the plug.

6. Carefully thread the plug into the engine.

7. Use the spark plug tool to firmly install the plug.

8. Attach the spark plug wire to the plug.

Your generator comes equipped with a ¾" long reach plug (18 mm)

Intermittent use (less than 1 hour/month) or colder temperatures (below 60°F)

**NGK B4ES or STAR F6TC**

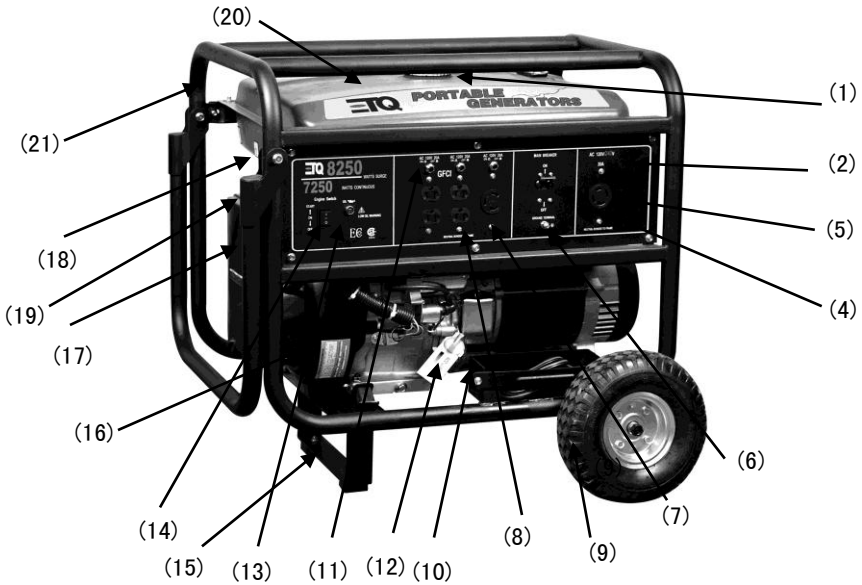
Moderate use (less than 3 hours/month) or Seasonal temperatures (50-80°F)

**NGK B4ES or STAR F6TC**

Extreme use (continuous) or hot climates(80-100°F)**NGK B4ES or STAR F6TC**

## Controls and Features

Read this owner's manual before operating your generator. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.











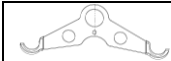
|  |  |
|--|--|
| (1) FUEL TANK CAP                      | (12) CAP ASSY,OIL FILLER                   |
| (2) MUFFLER COMP                       | (13) OIL INDICATOR LIGHT ASSY              |
| (3) CIRCUIT BREAKER(30A)               | (14) PUSHBUTTON ELECTRICITY STARTUP SWITCH |
| (4) CIRCUIT BREAKER(30A)               | (15) STAND ASSY                            |
| (5) 240/120V LOCKING RECEPTACLE L14-30 | (16) STARTER ASSY,RECOIL                   |
| (6) LUG GROUND                         | (17) AIR/C ASSY                            |
| (7) 3-POLE RECEPTACLE L5-30R           | (18) COCK ASSY.FUEL                        |
| (8) 120V RECEPTACLE 5-20R              | (19) CHOKE SET ASSY                        |
| (9) WHEEL 10"                          | (20) TANK COMP,FUEL                        |
| (10) BATTERY KICKSTAND                 | (21) FRAME ASSY                            |
| (11) CIRCUIT BREAKER(20A)              |  |

**WARNING: DO NOT** exceed the generator's wattage/amperage capacity. Our products are continuously being changed and improved. Every effort has been made to ensure that information in the manual is accurate and up to date. However, we reserve the right to change, alter or otherwise improve the product and this manual at any time without prior notice.

### PACKAGE CONTENTS

Your generator comes with the items listed below. Please check to see that all of the following items are included with your generator.

**If you are missing components DO NOT RETURN TO STORE, please call (888)908-6200 for customer service.**

| Order No.   | Name  | Qty |                       |
|---|---|-----|-----------------------|
| 1   | Air-cooled generator set  | 1   |                       |
| 2   | Tool Kit:   | 1   |                       |
|   |  |     | Flat Head Screwdriver |
|   |  |     | Spark Plug Wrench     |
|   |  |     | Wrench, 8x10, 17x19   |
|        | Battery Wire  |     |                       |
| 3   | Assembly Kit:   | 1   |                       |
|        | Wheel (2 pcs)   |     |                       |
| 4   | Assembly Kit:   | 1   |                       |
|        | Wheel Kit Hardware  |     |                       |
| 5   | Assembly Kit:   | 1   |                       |
|  etc. | Generator Foot (2 pcs)  |     |                       |
| 6   | Assembly Kit:   | 1   |                       |
|      | Handle  |     |                       |
| 7   | 吊钩Suspend   | 1   |                       |
|      | Conveyance Suspend  |     |                       |
| 8   | Owner's manual  | 1   |                       |

## AUTO THROTTLE CONTROL SWITCH

When using the generator, leave the AUTO THROTTLE CONTROL SWITCH (ATC) in the "ON" position; as soon as output is not needed. The engine will go into idle speed thus saving fuel. As soon as, power is needed again the engine will operate as normal again.

### Battery cable installation instructions:

#### 1. CONNECTING THE BATTERY'S ANODE

a. Connect one end of the red cable to the (positive) "+" end and fasten it.



b. After attaching the cable to the anode please remember to attach the rubber safety over the anode (as illustrated in this picture).



c. Connect the other end of the red cable to the output end relay.



#### 2. CONNECTING THE BATTERY'S CATHODE:

a. Connect one end of the white cable to the (negative) "-" end and fasten it.



b. After attaching the cable to the cathode. Please remember to attach the rubber safety over the cathode (as illustrated in this picture).



c. Connect the other end of the white cable to the bearing support of the alternator and fasten it.



## STARTING THE UNIT

Please refer to your start up guide that comes with your unit.

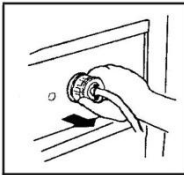
Before beginning your work, you must verify that the rated (running) and surge (starting) watts for the items you will power at the same time are within the generators operating capacity. Please refer to the following Table 1 for wattage / amperage ratings. Also, to prolong the life of your generator, prolong the life of your generator, sequentially add loads and permit the generator to stabilize before adding another load. Never exceed the capacity of the generator.

Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator.

**Note: Check your electrical device for actual wattage.**

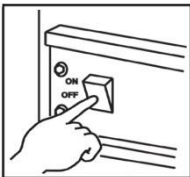
## Stopping the Engine

1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.



2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.

3. Turn the ignition switch to the "Off" position.



4. Turn the fuel valve to the "Off" position.

## MAINTENANCE

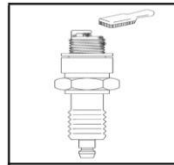
Generator maintenance consists of keeping the unit clean and dry. Be sure to store the unit in a clean and dry environment, where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling slots should always be clean and free from clogs.

Note: Do not use a garden hose to clean the generator. Water can enter the fuel and intake system and cause problems. In addition, if water and dirt buildup on the generators internal windings, the resistance of these windings will decrease.

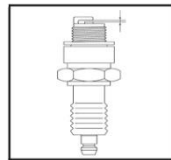
- To clean the generator, use a damp cloth to wipe the exterior surfaces.
- Use a soft bristle brush to loosen caked on dirt of oil.
- Use a vacuum cleaner to pick up loose dirt and debris.
- Compressed air (not to exceed 25 psi) may be used to blow away dirt.

## SPARK PLUG

- Remove the spark plug
- Remove the carbon deposits



- Check for discoloration. Standard is tan in color.
- Check spark plug gap

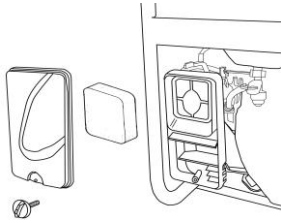


Make certain the spark plug gap is **0.7 -0.8mm (0.028 - 0.031 in.)**.

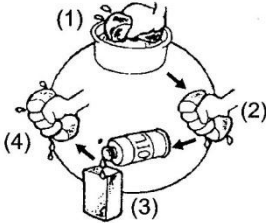


## AIR FILTER

- Unscrew the bolt from the air cleaner cover, and remove the air cleaner cover.
- Check the air cleaner element to be sure they are clean and in good condition.



- If the air filter is dirty, remove and clean the element.
  - Wash in solvent
  - Squeeze
  - Soak oil
  - Squeeze dry

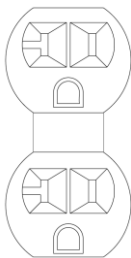


- Reinstall the air cleaner element and secure the cover by setting the cover spring.

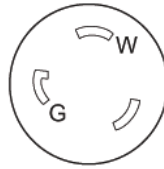
## RECEPTACLES

This generator is equipped with the following Receptacles

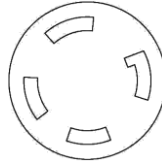
### NEMA 5-20R: 125 Volt, 20 Amp GFCI Duplex Receptacle



### L5-30R: 120V, 30Amp Twist Lock Receptacle



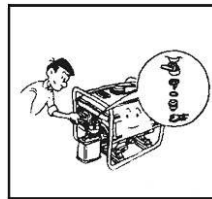
### L13-30R: 120V, 30Amp Twist Lock Receptacle



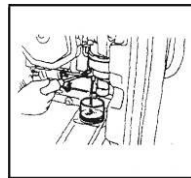
## STORAGE

The generator should be started at least once every week. If this cannot be done and you must store the unit more than 30 days, please follow the following guidelines.

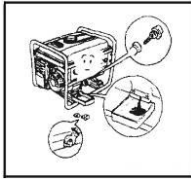
•Close the fuel valve: drain the fuel from the fuel tank.



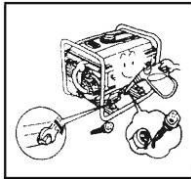
•Drain the fuel from the carburetor .



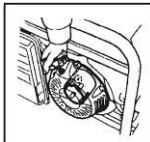
•Remove the oil filter cap and drain plug to drain the oil.



·Tighten the oil drain plug and fill the engine with new oil to the filter neck.



·Pull the starter grip carefully until resistance is felt.



·Store the generator in a clean area.

### MAINTENANCE

Check  
 Change  
 Clean  
 Check-Readjust

|                     |  | First Month | Every 3 Months | Every 6 Months | Every Year |
|---------------------|--|-------------|----------------|----------------|------------|
| Engine Oil          |  |             |                |                |            |
|                     |  |             |                |                |            |
| Air Cleaner         |  |             |                |                |            |
|                     |  |             |                |                |            |
| Fuel Strainer       |  |             |                |                |            |
| Battery Fluid Level |  |             |                |                |            |
| Spark Plug          |  |             |                |                |            |
| Valve Clearance     |  |             |                |                | (1)        |
| Combustion Chamber  |  |             |                |                | (1)        |
| Fuel Line           |  |             | (1),(2)        |                |            |

Below is a routine maintenance schedule.

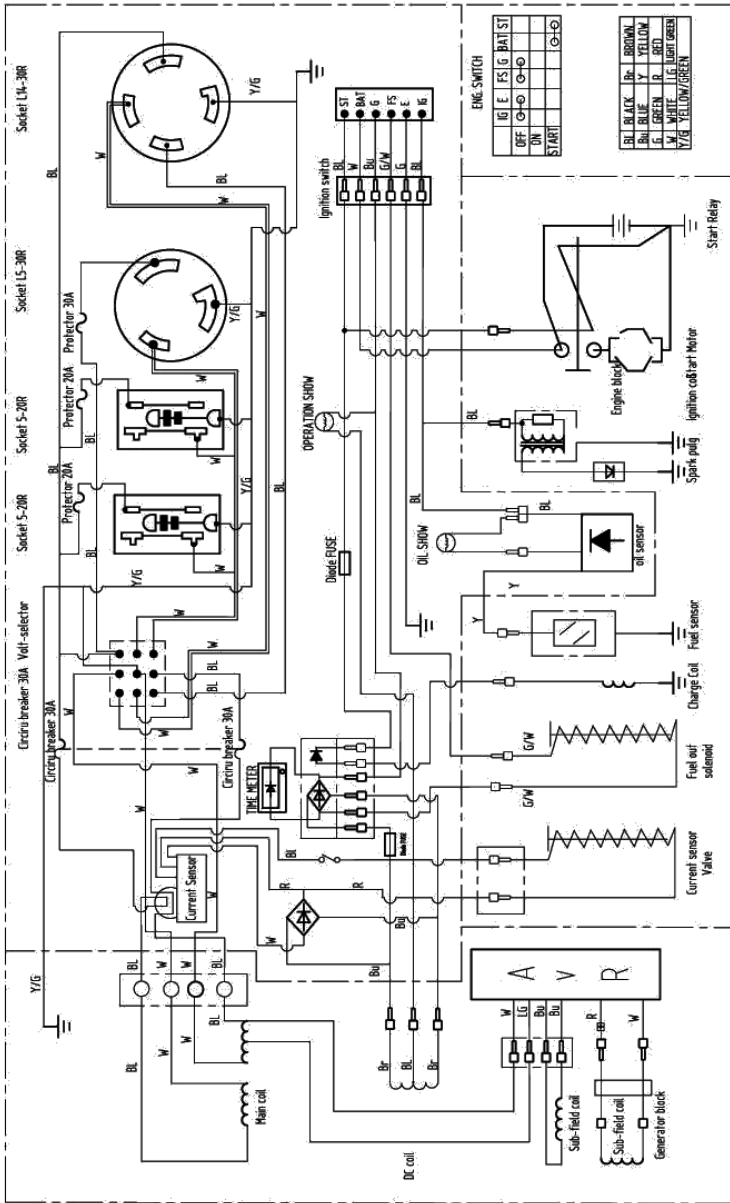
(1):These items should be serviced by a dealer.

(2):Every 3 years.

## TROUBLE SHOOTING

| Problem  | Cause                         | Solution  |
|--|-------------------------------|---|
| Generator will not start                                       | No Gasoline                   | Add Gasoline  |
|  | Faulty spark plug             | Replace spark plug  |
|  | Unit loaded during start up   | Remove load from unit   |
| Generator will not start;<br>Generator starts but runs roughly | Low oil level                 | Fill crankcase to the proper level<br>Place generator on a flat, level surface  |
|  | Choke in the wrong position.  | Adjust choke.   |
|  | Spark plug wire loose         | Attach wire to spark plug   |
| Generator shuts down during operation                          | Out of Gasoline               | Refill gasoline   |
|  | Low oil level                 | Fill crankcase to the proper level.<br>Place generator on a flat, level surface |
| Generator cannot supply enough power or overheating            | Generator is overloaded       | Review load and adjust. See "Power Management"                                  |
|  | Insufficient ventilation      | Check for air restriction. Move to a well ventilated area                       |
| No AC output   | Cable not properly connected  | Check all connections   |
|  | Connected device is defective | Replace defective device  |
|  | Circuit breaker is open       | Reset circuit breaker   |
|  | Capacitor defective           | Replace capacitor (Service Center)  |
|  | Faulty brush assembly         | Replace brush assembly (Service Center)   |
|  | Faulty AVR                    | Replace AVR (Service Center)  |
|  | Loose wiring                  | Inspect and tighten wiring connections  |
|  | Other                         | Contact the help line.  |
| Generator gallops  | Engine governor defective     | Contact the help line   |
| Repeated circuit breaker tripping                              | Overload                      | Review load and adjust. See "Power Management"                                  |
|  | Faulty cords or device        | Check for damaged, bare or frayed wires. Replace defective device               |

# WIRING DIAGRAM



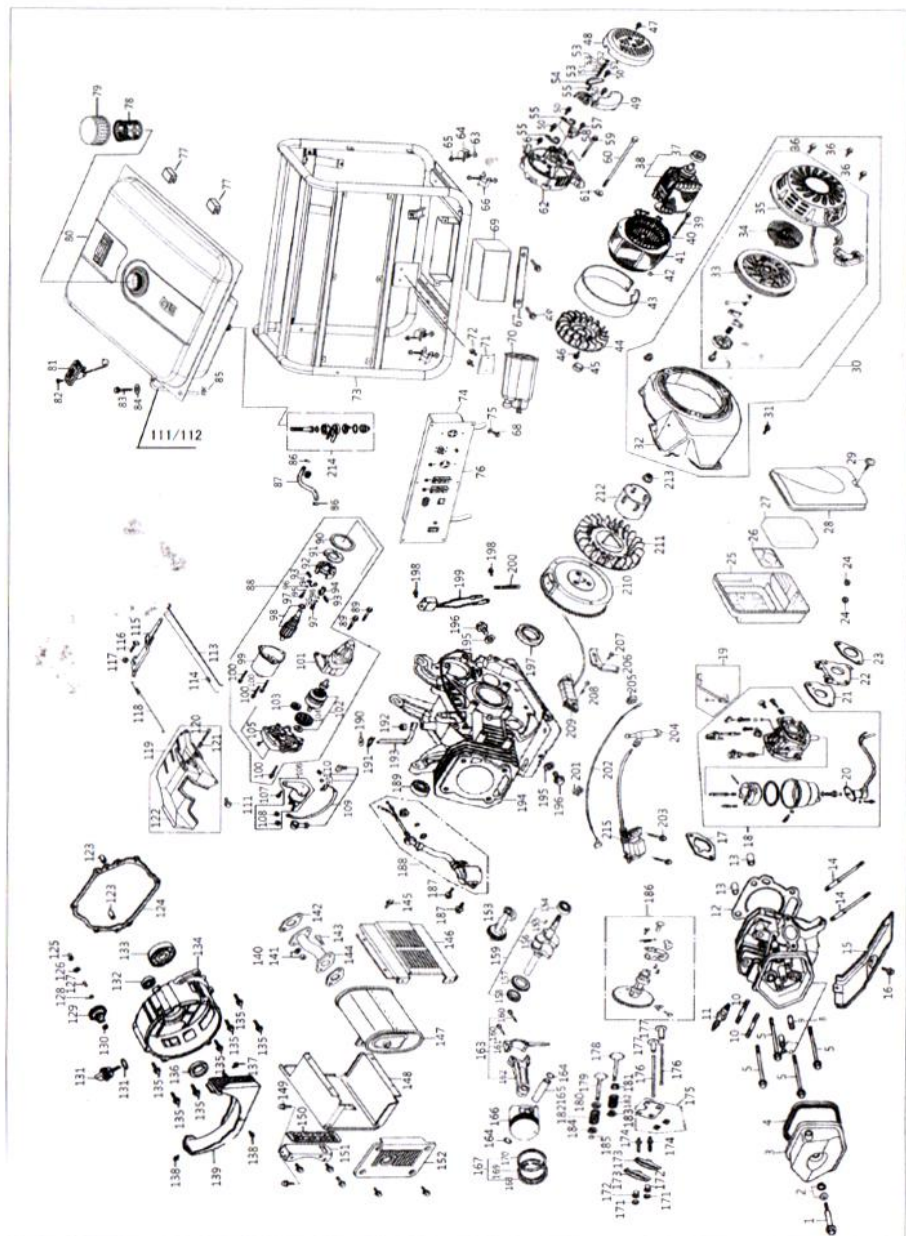
ENG. SWITCH

|     |    |       |   |    |    |
|-----|----|-------|---|----|----|
| 1G  | E  | ES    | G | BA | ST |
| OFF | ON | START |   |    |    |

|     |              |    |             |
|-----|--------------|----|-------------|
| BL  | BLACK        | BR | BROWN       |
| BU  | BLUE         | Y  | YELLOW      |
| LG  | GREEN        | R  | RED         |
| W   | WHITE        | L  | LIGHT GREEN |
| Y/G | YELLOW/GREEN |    |             |

# Parts List



| NUMBER | PART NUMBER      | DESCRIPTION                     | EPA | CARB |
|--------|------------------|---------------------------------|-----|------|
| 1      | 95528-06063-00   | ABNORMITY BOLT,FLANGE ASSY 6×60 | 1   | 1    |
| 2      | 91262-188-00     | ABNORMITY LATEX 6MM             | 1   | 1    |
| 3      | 12310-188-00-RT  | COVER COMP,HEAD                 | 1   | 1    |
| 4      | 12391-188-00     | PKG,HEAD COVER                  | 1   | 1    |
| 5      | 95701-10080-01   | BOLT,FLANGE 10×80               | 4   | 4    |
| 6      | 90603-188-00     | CLIP,GUIDE EXHAUST VALVE        | 1   | 1    |
| 7      | 12205-188-00     | GUIDE ,EXH VALVE                | 1   | 1    |
| 8      | 12210-190-00     | HEAK ASSY CYLN                  | 1   | 1    |
| 9      | 12204-188-00     | GUIDE.IN,VALVE                  | 1   | 1    |
| 10     | 90047-08035-00   | BOLT,STUD 8X35                  | 2   | 2    |
| 11     | 98097-188-00     | SPARK PLUG F7TC                 | 1   | 1    |
| 12     | 12251-190-00     | GASKET,CYLINDER HEAD            | 1   | 1    |
| 13     | 94301-12020-00   | DOWEL ,PIN,12X20                | 2   | 2    |
| 14     | 90043-0608110-00 | BOLT,STUD M6XM8×110             | 2   | 2    |
| 15     | 19631-188-00     | LEAD WIND COVER                 | 1   | 1    |
| 16     | 95701-06012-00   | BOLT,FLANGE 6X12                | 1   | 1    |
| 17     | 16269-188-01     | PKG,AIR/C                       | 1   | 1    |
| 18     | 16100-E90-00     | CARBURETOR ASSY                 | 1   | 1    |
| 19     | 16610-168-00     | LEVER COMP.,CHOKE               | 1   | 1    |
| 20     | 16230-188-00     | VALVE ASSY.,SOLENOID            | 1   | 1    |
| 21     | 16221-188-01     | PKG,CARB                        | 1   | 1    |
| 22     | 16211-E88-00     | INSULATOR,CARB                  | 1   | 1    |
| 23     | 16212-188-01     | GASKET,INLET                    | 1   | 1    |
| 24     | 94050-06000-00   | NUT,FLANGE M6                   | 2   | 2    |
| 25     | 17220-188-00     | CASE COMP,AIR/C                 | 1   | 1    |
| 26     | 17212-188-00     | STAY,ELEMENT                    | 1   | 1    |
| 27     | 17211-188-00     | ELEMENT,AIR/C                   | 1   | 1    |
| 28     | 17231-188-00     | COVER COMP ,AIR CLEANER         | 1   | 1    |
| 29     | 94010-188-00     | WOOD BOLT FLANGE                | 1   | 1    |
| 30     | 28400-188-01     | STARTER ASSY,RECOIL(BLACK)      | 1   | 1    |
| 31     | 95701-06012-00   | BOLT,FLANGE 6X12                | 5   | 5    |
| 32     | 19610-188-00     | COVER COMP ,FAN (BLACK)         | 1   | 1    |
| 33     | 28421-188-00     | REEL,RECOIL STARTER             | 1   | 1    |
| 34     | 28442-188-00     | SPRING,RECOIL STARTER           | 1   | 1    |
| 35     | 28410-188-01     | CASE COMP RECOIL STARTER(BLACK) | 1   | 1    |
| 36     | 90008-06010-00   | BOLT,FLANGE 6X10                | 3   | 3    |
| 37     | 91005-188-00     | BEARING 6205RS                  | 1   | 1    |
| 38     | 31130-072-00-B   | ROTOR,COMP                      | 1   | 1    |
| 39     | 92101-05235-00   | FLANGE BOLT(STATOR) 5×235       | 2   | 2    |
| 40     | 94111-05000-00   | WASHER,SPRING(ROTOR) 5MM        | 2   | 2    |
| 41     | 31120-072-00     | STATOR COMP                     | 1   | 1    |
| 42     | 90305-05000-00   | NUT (STATOR) M5                 | 2   | 2    |

| NUMBER | PART NUMBER       | DESCRIPTION                | EPA | CARB |
|--------|-------------------|----------------------------|-----|------|
| 43     | 31150-072-00      | STATOR COVER               | 1   | 1    |
| 44     | 19512-188-00      | GENERATOR FAN              | 1   | 1    |
| 46     | 90008-06010-00    | BOLT,FLANGE 6X10           | 2   | 2    |
| 47     | 95701-05012-00    | BOLT,FLANGE 5X12           | 2   | 2    |
| 48     | 31203-188-00      | BRACKET,RR.,MOTOR(BLACK)   | 1   | 1    |
| 49     | 30300-190-00      | VOLTAGE REGULATOR (7KW)    | 1   | 1    |
| 50     | 95701-05016-00    | BOLT,FLANGE 5X16           | 4   | 4    |
| 51     | 19620-188-00      | CONNECTION FLAT            | 1   | 1    |
| 52     | 90008-04020-00    | BOLT,FLANGE 4X20           | 12  | 12   |
| 53     | 90486-04010-00    | BOLT,FLANGE 4X10X1.0       | 8   | 8    |
| 54     | 94111-04000-00    | WASHER,SPRING 4MM          | 4   | 4    |
| 55     | 90650-03200-00    | BAND WIRE(SINGLE) 3X200mm  | 2   | 2    |
| 56     | 95701-05012-00    | BOLT,FLANGE 5X12           | 2   | 2    |
| 57     | 95701-05016-00    | BOLT,FLANGE 5X16           | 1   | 1    |
| 58     | 31160-188-00      | BRUSH ASSY                 | 1   | 1    |
| 59     | 95701-06195-00    | FLANGE BOLT(STATOR) 6X195  | 4   | 4    |
| 60     | 95701-10285-00    | FASTNESS BOLT(ROTOR)10X285 | 1   | 1    |
| 61     | 90486-10500-00    | WASHER,PLAIN(ROTOR) 10.5MM | 1   | 1    |
| 62     | 31170-188-00      | GENERATOR STAY             | 1   | 1    |
| 63     | 94050-08000-00    | NUT FLANGE M8              | 4   | 4    |
| 64     | 77330-188-00      | BOTTOM RUBBER B            | 2   | 2    |
| 65     | 94050-10000-00    | NUT FLANGE M10             | 4   | 4    |
| 66     | 77320-188-00      | BOTTOM RUBBER A            | 8   | 8    |
| 67     | 82350-T80-00      | IMMOBILITY BOARD           | 1   | 1    |
| 68     | 95701-06012-00    | BOLT,FLANGE 6X12           | 2   | 2    |
| 69     | 31500-N14-00      | BATTERY(14A.h)             | 1   | 1    |
| 70     | 81120-188-00      | CARBON CANISTER(682cc)     | —   | 1    |
| 71     | 81122-188-00      | BRACKET., CARBON CANISTER  | —   | 1    |
| 72     | 95701-06012-00    | BOLT,FLANGE 6X12           | —   | 2    |
| 73     | 50310-T80-02      | FRAME COMP                 | 1   | 1    |
| 74     | 33120-188-00      | REAR COVER                 | 1   | 1    |
| 75     | 94101-06000-00    | WASHER,PLAIN(RED) 6MM      | 1   | 1    |
| 76     | 33100-TG72B-00    | CONTROL PANEL ASSY         | 6   | 6    |
| 77     | 53136-T80-01      | IMMOBILITY PIECE(RUBBER)   | 2   | 2    |
| 78     | 15420-188-00/CARB | FUEL FILLER                | 1   | 1    |
| 79     | 17620-168-01/CARB | CAP COMP,FUEL FILLER       | 1   | 1    |
| 80     | 17510-T80-01/CARB | TANK COMP,FUEL(BLUE)       | 1   | 1    |
| 81     | 17640-188-01      | FUEL SENSOR ASSY           | 1   | 1    |
| 82     | 93800-05010-00    | SCREW 5X10                 | 2   | 2    |
| 83     | 95701-06016-00    | BOLT,FLANGE 6X16           | 2   | 2    |
| 84     | 90486-06022-00    | BOLT,FLANGE 6X22X2.0       | 2   | 2    |
| 85     | 95003-CT095-00    | CLIP,TUBE (B9.5)           | —   | 2    |

| NUMBER | PART NUMBER          | DESCRIPTION               | EPA | CARB |
|--------|----------------------|---------------------------|-----|------|
| 86     | 95003-CT095-00       | CLIP,TUBE (B9.5)          | 2   | 2    |
| 87     | 95001-045205-00-CARB | TUBE,FUEL 4.5×205         | 1   | 1    |
| 88     | 31201-188-00         | MOTOR ASSY.,STARTING      | 1   | 1    |
| 89     | 95701-08032-00       | BOLT,FLANGE 8×32          | 2   | 2    |
| 90     | 91601-188-00         | PACKING                   | 1   | 1    |
| 91     | 31233-188-00         | INSULATOR                 | 1   | 1    |
| 92     | 31231-188-00         | HOLDER REDUCTION          | 1   | 1    |
| 93     | 31219-188-00         | SPRING,BRUSH RETURN       | 2   | 2    |
| 94     | 31215-188-00         | BRUSH                     | 2   | 2    |
| 95     | 94111-04000-00       | WASHER,SPRING 4MM         | 2   | 2    |
| 96     | 90486-04000-00       | WASHER PLAIN 4MM          | 2   | 2    |
| 97     | 92101-04020-00       | FLANGE BOLT 4×20          | 2   | 2    |
| 98     | 31206-188-00         | ARMATURE COMP             | 1   | 1    |
| 99     | 31218-188-00         | YOKE COMP                 | 1   | 1    |
| 100    | 93892-05032-00       | SCREW WASHER 5X32         | 3   | 3    |
| 101    | 31208-188-00         | HOUSING COMP.,DRIVE SIDE  | 1   | 1    |
| 102    | 31207-188-00         | CLUTCH COMP.,OVERRUNNING  | 1   | 1    |
| 103    | 30213-188-00         | GEAR DRIVE PINION         | 1   | 1    |
| 104    | 30201-188-00         | PING,SNAP                 | 1   | 1    |
| 105    | 31211-188-00         | BRACKET,CENTER            | 1   | 1    |
| 106    | 31204-188-00         | CONTACTOR ASSY            | 1   | 1    |
| 107    | 90007-05014-00       | BOLT-WASHER               | 2   | 2    |
| 108    | 94070-0608-00        | NUT-WASHER                | 2   | 2    |
| 109    | 38310-188-00         | LINK LINE                 | 1   | 1    |
| 110    | 90110-0406-00        | SCREW-WASHER              | 1   | 1    |
| 111    | 95001-0610265-00     | TUBE,FUEL M6×M8×265       | —   | 1    |
| 112    | 17634-G168-00        | VAVLE UMBRELLA            | —   | 1    |
| 113    | 16555-188-00         | ROD,GOVERNOR              | 1   | 1    |
| 114    | 16584-188-00         | SPRING,CONTL ADJ          | 1   | 1    |
| 115    | 16552-188-00         | ARM,GOVERNOR              | 1   | 1    |
| 116    | 72880-06021-00       | BOLT,GOV.ARM(T) 6×21      | 1   | 1    |
| 117    | 94050-06000-00       | NUT,FLANGE 6MM            | 1   | 1    |
| 118    | 16561-188-00         | SPRING THROTTLE RETURN    | 1   | 1    |
| 119    | 16580-188-00         | CONTROL ASSY (REMOTE)     | 1   | 1    |
| 120    | 93500-05035-00       | SCREW,PAN 5×35            | 1   | 1    |
| 121    | 16584-188-00         | SPRING ,CONTROL ADJUSTING | 1   | 1    |
| 122    | 1658A-188-00         | CONTROL                   | 1   | 1    |
| 123    | 90701-08014-00       | PIN DOWEL 8×14            | 2   | 2    |
| 124    | 11381-188-01         | PKG,CASE COVER            | 1   | 1    |
| 125    | 16531-188-00         | SLIDER,GOVERNOR           | 1   | 1    |
| 126    | 94101-06013-00       | WASHER,PLAIN.6MM(1.0MM)   | 1   | 1    |
| 127    | 16513-188-00         | PIN,GOVERNOR WEIGHT       | 1   | 1    |



| NUMBER | PART NUMBER     | DESCRIPTION                           | EPA | CARB |
|--------|-----------------|---------------------------------------|-----|------|
| 128    | 16511-188-00    | WEIGHT,GOVERNOR                       | 3   | 3    |
| 129    | 16512-188-00    | HOLDER,GOV WEIGHT                     | 1   | 1    |
| 130    | 94101-06013-00  | WASHER,PLAIN.6MM(1.0MM)               | 1   | 1    |
| 131    | 15620-188-00    | CAP ASSY,OIL FILLER(YELLOW)           | 1   | 1    |
| 132    | 96110-62020-00  | BEARING BALL RADIAL 6202              | 1   | 1    |
| 133    | 96100-62070-00  | BEARING BALL RADIAL 6207              | 1   | 1    |
| 134    | 11300-188-00    | COVER ASSY.,CRANK CASE                | 1   | 1    |
| 135    | 95701-08040-00  | BOLT,FLANGE 8X40                      | 7   | 7    |
| 136    | 91201-355208-00 | OIL SEAL 35X52X8                      | 1   | 1    |
| 137    | 95701-05012-00  | BOLT,FLANGE 5X12                      | 1   | 1    |
| 138    | 95701-05012-00  | BOLT,FLANGE 5X12                      | 2   | 2    |
| 139    | 11315-188-00    | COVER DUCT                            | 1   | 1    |
| 140    | 94045-08000-00  | NUT 8MM                               | 2   | 2    |
| 141    | 94111-08000-00  | WASHER,SPRING 8MM                     | 2   | 2    |
| 142    | 18381-188-00    | GASKET,MUFFLER                        | 3   | 3    |
| 143    | 95701-08025-00  | BOLT,FLANGE 8X25                      | 2   | 2    |
| 144    | 18335-188-00    | PIPE,EXH                              | 1   | 1    |
| 145    | 95701-06012-00  | BOLT,FLANGE 6X12                      | 7   | 7    |
| 146    | 18320-188-01    | PROTR,OUT MUFFLER                     | 1   | 1    |
| 147    | 18310-180-02    | MUFFLER COMP(SPARK ELIMINATE UTENSIL) | 1   | 1    |
| 148    | 18321-188-01    | PROTR,IN MUFFLER                      | 1   | 1    |
| 149    | 95701-08016-00  | BOLT,FLANGE 8X16                      | 4   | 4    |
| 150    | 18323-188-00    | LATEX (PROTR,IN MUFFLER)              | 1   | 1    |
| 151    | 18382-188-00    | MUFFLER STAY                          | 1   | 1    |
| 152    | 18322-188-00    | SAFEGUAR BOARD MUFFLER                | 1   | 1    |
| 153    | 13315-190-00    | COUNTERPOISE SHAFT                    | 1   | 1    |
| 154    | 96100-62070-00  | BEARING BALL RADIAL 6207              | 1   | 1    |
| 155    | 90741-188-00    | WOODRUFF KEY 5×5×33                   | 1   | 1    |
| 156    | 13311-190-00    | CRANK SHAFT                           | 1   | 1    |
| 157    | 23470-188-00    | TIMING DRIVING GEAR                   | 1   | 1    |
| 158    | 23460-188-00    | DRIVE GEAR                            | 1   | 1    |
| 159    | 13310-190-00    | CRANK SHAFT COMP                      | 1   | 1    |
| 160    | 90001-08038-00  | BOLT,CONN.ROD 8×38                    | 2   | 2    |
| 161    | 13202-190-00    | TIE-ROD COVER                         | 1   | 1    |
| 162    | 13201-190-00    | TIE-ROD                               | 1   | 1    |
| 163    | 13200-190-00    | CONN ROD ASSY                         | 1   | 1    |
| 164    | 90551-188-00    | CLIP PISTON PIN                       | 2   | 2    |
| 165    | 13111-188-00    | PIN,PISTON                            | 1   | 1    |
| 166    | 13101-190-00    | PISTON                                | 1   | 1    |
| 167    | 13010-190-00    | RING SET,PISTON (STD)                 | 1   | 1    |
| 168    | 13011-190-00    | PISTON RING (A)                       | 1   | 1    |
| 169    | 13012-190-00    | PISTON RING (B)                       | 1   | 1    |

| NUMBER | PART NUMBER     | DESCRIPTION                    | EPA | CARB |
|--------|-----------------|--------------------------------|-----|------|
| 170    | 13013A-190-00   | COMBINATION RING               | 1   | 1    |
| 171    | 90206-188-00    | NUT,PIVOT ADJUSTING            | 2   | 2    |
| 172    | 14451-188-00    | PIVOT,ROCKER ARM               | 2   | 2    |
| 173    | 14431-188-00    | ARM,VALVE ROCKER               | 2   | 2    |
| 174    | 90012-188-00    | BOLT PIVOT                     | 2   | 2    |
| 175    | 14791-188-00    | PLATE,PUSH ROD GUIDE           | 1   | 1    |
| 176    | 14410-188-00    | ROD,PUSH 5×166                 | 2   | 2    |
| 177    | 14441-188-00    | LIFTER VALVE 9×46              | 2   | 2    |
| 178    | 14711-188-01    | VALVE,INLET                    | 1   | 1    |
| 179    | 14721-188-00    | VALVE,EXHAUST                  | 1   | 1    |
| 180    | 14775-188-00    | RETAINER,EXH VALVE DOWN SPRING | 1   | 1    |
| 181    | 12209-188-00    | SEAL,VALVE STEM                | 1   | 1    |
| 182    | 14751-188-00    | SPRING,VALVE                   | 2   | 2    |
| 183    | 14771-188-00    | RETAINER,IN VALVE SPRING       | 1   | 1    |
| 184    | 14773-188-00    | RETAINER,EXH VALVE SPRING      | 1   | 1    |
| 185    | 14781-188-00    | ROTATOR,VALVE                  | 1   | 1    |
| 186    | 94050-10000-00  | NUT,FLANGE.10MM                | 1   | 1    |
| 187    | 95701-06016-00  | BOLT,FLANGE.6X16               | 2   | 2    |
| 188    | 15510-188-00    | SWITCH ASSY,OIL LEVEL          | 1   | 1    |
| 189    | 91600-62020-00  | BEARING BALL RADIAL 6202       | 1   | 1    |
| 190    | 90446-821708-00 | WASHER,PLAIN.8MM(0.8MM)        | 1   | 1    |
| 191    | 94251-10000-00  | PIN,LOCK 10MM                  | 1   | 1    |
| 192    | 91203-081405-00 | OIL SEAL 8×14×5                | 1   | 1    |
| 193    | 16541-188-00    | SHAFT,GOVERNOR ARM             | 1   | 1    |
| 194    | 12000-190-01-FD | CRANKCASE (HOLE)               | 1   | 1    |
| 195    | 90601-12020-00  | WASHER,PLUG DRAIN 12MM         | 2   | 2    |
| 196    | 92800-12016-00  | BOLT,PLUG,DRAIN 12×16          | 2   | 2    |
| 197    | 91201-355208-00 | OIL SEAL 35X52X8               | 1   | 1    |
| 198    | 95701-06012-00  | BOLT,FLANGE,6X12               | 2   | 2    |
| 199    | 15520-068-00    | SAFEGUARD ASSY,OIL LEVEL       | 1   | 1    |
| 200    | 32906-188-00    | CLAMPER,METAL CABLE 1          | 1   | 1    |
| 201    | 90601-188-00    | CLIP,HARNES                    | 2   | 2    |
| 202    | 36101-188-00    | IG COIL ASSY                   | 1   | 1    |
| 203    | 95701-06025-00  | BOLT,FLANGE 6X25               | 2   | 2    |
| 204    | 30700-188-00    | CAP ASSY,NOISE SUPPRESSOR      | 1   | 1    |
| 205    | 45450-168-00    | LATEX ROOT BLOCK               | 1   | 1    |
| 206    | 31511-188-00    | CLAMPER,CORD                   | 1   | 1    |
| 207    | 95701-06012-00  | BOLT,FLANGE 6X12               | 1   | 1    |
| 208    | 95701-06030-00  | BOLT,FLANGE 6X30               | 2   | 2    |
| 209    | 35850-188-00    | ELECTRICIZE WINDING            | 1   | 1    |
| 210    | 31110-190-00-FD | FLYWHEEL COMP (2SLICE)         | 1   | 1    |
| 211    | 19511-188-00    | FAN,COOLING                    | 1   | 1    |
| NUMBER | PART NUMBER     | DESCRIPTION                    | EPA | CARB |
| 212    | 28451-188-00    | STARTING CUP                   | 1   | 1    |
| 213    | 94050-16000-00  | NUT,SPECIALFLANGE M16×1.5      | 1   | 1    |
| 214    | 16950-168-00    | COCK ASSY,FUEL                 | 1   | 1    |
| 215    |                 |                                |     |      |

## LIMITED WARRANTY

Eastern Tools & Equipment, Inc. will repair or replace, free of charge, any part or parts of the generator that are defective in material or workmanship or both. Transportation charges on parts submitted for repair or replacement under this Warranty must be borne by purchaser. This warranty is effective for the time period and subject to the conditions provided for in this policy. For warranty service, find the nearest Authorized Service Dealer by contacting the place of purchase or Eastern Tools & Equipment, Inc. THERE IS NO OTHER EXPRESSED WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM PURCHASE, OR TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

**Eastern Tools & Equipment, Inc.**

### WARRANTY PERIOD\*\*\*

| ENGINES            | WITHIN U.S.A AND CANADA |                | OUTSIDE U.S.A. AND CANADA |                |
|--------------------|-------------------------|----------------|---------------------------|----------------|
|                    | CONSUMER USE            | COMMERCIAL USE | CONSUMER USE              | COMMERCIAL USE |
| GASOLINE GENERATOR | 1 year                  | 90 days        | 1 year                    | 90 days        |

The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated in the table above. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including the commercial, income producing or rental purpose. Once the engine has experienced commercial use, it shall thereafter be considered as a commercial use engine for purpose of this warranty. **Engines use in competitive racing or commercial or rental tracks are not warranted.**

\*\*\*A two-year warranty applies to the emission control system on engines certified by EPA and CARB.

#### **IMPORTANT**

**"WARRANTY REGISTRATIONS IS NECESSARY TO OBTAIN LIMITED WARRANTY ON EASTERN TOOLS & EQUIPMENT, INC., ENGINES. THE WARRANTY REGISTRATION CARD MUST BE RETURNED WITHIN 15 DAYS OF PURCHASE FOR LIMITED WARRANTY TO BE VALID"**

### **About Your Product Warranty**

Eastern Tools & Equipment, Inc. welcomes warranty repair and apologizes to you for being inconvenienced. Any Authorized Service Dealer may perform warranty repairs. Most warranty repairs are handled routinely, but sometimes warranty service may be inappropriate. For example, warranty would not apply if an engine is damaged because of misuse, lack of routine maintenance, shipping, handling, warehousing and improper installation. Similarly, warranty is void if the serial number on the engine has been removed or if the engine has been altered or modified. If a customer differs with the decision of the Service Dealer, an investigation will be made to determine whether the warranty applies. Ask the Service Dealer to submit all supporting facts to his Distributor or the factory for review. If the distributor or the factory decides that the claim is justified, the customer will be fully reimbursed for those items that are defective. To avoid misunderstanding, which might occur between the customer and the dealer, listed below are some of the causes of engine failure that the warranty does not cover

### **Normal wear:**

Engines and generators, like all mechanical devices, need periodic parts service and replacement to perform well. Warranty will not cover repair when normal use has exhausted the life of a part of an engine.

### **Improper maintenance:**

The life of an engine or your equipment depends upon the conditions under which it operates, and the care it receives. Some applications, such as tillers, pumps, and rotary movers, are very often used in dusty or dirty conditions, which can cause what appears to be premature wear. Such wear, when caused by dirt, dust, spark plug cleaning grit, or other abrasive material that has entered the engine because of improper maintenance is not covered by warranty.

**This warranty cover engine related defective material and/or workmanship only, and not replacement or refund of the equipment to which the engine may be mounted. Nor does the warranty extend to repairs required because of:**

1. Problems caused by parts that are not original eastern tools & equipment, inc., parts.
2. Equipment controls or installations that prevent starting, cause unsatisfactory engine performance, or shorten engine life. (Contact equipment manufacturer.)
3. Leaking carburetor, clogged fuel pipes, sticking valves, or other damage, caused by using contaminated or stale fuel. (Use clean, fresh, lead-free gasoline.)
4. Parts which are scored or broken because an engine was operated with insufficient or contaminated lubricating oil, or and incorrect grad of lubricating oil (check oil level daily or after every 8 hours of operation. Refill when necessary and change at recommended intervals.) Engine damage may occur if oil level is not properly maintained. Read Operating & Maintenance Instructions.
5. Repair or adjustment of associated parts or assemblies such as clutches, transmissions, remote controls, etc., which are not manufactured by Eastern Tools & Equipment, Inc.
6. Damage or wear to parts caused by dirt, which entered the engine because of improper air filter maintenance, re-assembly, or use of a non-original air filter element or cartridge. Read Operating & Maintenance Instructions.
7. Parts damaged by over-speeding, or overheating caused by grass, debris, or dirt, which plugs or clogs the cooling fins, or flywheel are, or damaged caused by operating the engine in a confined area without sufficient ventilation.
8. Engine or equipment parts broken by excessive vibration caused by a loosen cutter blades unbalanced blades or loose unbalanced impellers, improper attachment of equipment to engine crankshaft, over speeding or other abuse in operation.
9. A bent or broken crankshaft, caused by striking a solid object with the cutter blade of a rotary lawn mower, or excessive v-belt tightness.
10. Routine tune-up or adjustment of the engine.
11. Engine or engine component failure, i.e., combustion chamber, valves, valve seats, valve guides, or burned starter motor winding, caused by the alternated fuels such as, liquefied petroleum, natural gas, altered gasoline's etc.

**Warranty is available only through service dealers, which have been authorized by Eastern Tools & Equipment, Inc., please contact the place of purchase or Eastern Tools & Equipment, Inc. for a Service Dealer near you.**

### **CALIFORNIA & USEPA EMISSION CONTROL WARRANTY STATEMENT**

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB) and Eastern Tools & Equipment, Inc. are pleased to explain the Federal and California Emission Control System Warranty on your small nonroad engine. In California, new small nonroad engines must be designed, built and equipped to meet the State's stringent and anti-smog standards. Eastern Tools & Equipment, Inc. must warrant the emission control system on your small nonroad engine for the

periods of time listed above provided there has been no abuse, neglect or improper maintenance of your small nonroad engine.

Your emission control system may include parts such as the carburetor, or fuel-injection system, the ignition system and catalytic converter. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Eastern Tools & Equipment, Inc. will repair your small nonroad engine at no cost to you including diagnosis, parts and labor.

### **OWNER'S WARRANTY RESPONSIBILITIES**

As the small nonroad engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Eastern Tools & Equipment, Inc. recommends that you retain all receipts covering maintenance on your small nonroad engine, but Eastern Tools & Equipment, Inc. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small nonroad engine owner, you should, however, be aware that Eastern Tools & Equipment, Inc. may deny you warranty coverage if your; small nonroad or part thereof has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small nonroad engine to Eastern Tools & Equipment, Inc. distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities or request warranty service you should contact either the place of purchase or Eastern Tools & Equipment, Inc., c/o Service Manager, Engine and Equipment Service Division.

### **IMPORTANT NOTE:**

This warranty statement explains your rights and obligations under Emission Control system Warranty (ECS Warranty), which is provided to our by Eastern Tools & Equipment, Inc. pursuant to California law, Eastern Tools & Equipment, Inc. also provides to original purchasers of new Eastern Tools & Equipment, Inc. engines. Eastern Tools & Equipment, Inc. Limited Warranties for New engines & other Equipment associated with the engine (Eastern Tools & Equipment, Inc. Products Warranty), which is enclosed with all New Eastern Tools & Equipment, Inc. engines and products on a separate sheet. The ECS Warranty applies only to the emission control system of your new engine. To the extent that there is any conflict in terms between the ECS Warranty and the Eastern Tools & Equipment, Inc., Warranty, the ECS Warranty shall apply except in any circumstances in which the Eastern Tools & Equipment, Inc. Product Warranty may provide a longer warranty period. Both the ECS Warranty and the Eastern Tools & Equipment, Inc. product Warranty describe important right and obligations with respect to your new engine.

Eastern Tools & Equipment, Inc. at its location in Ontario, California can perform warranty service or any authorized service dealer near you. At the time of requesting warranty service, evidence must be presented of the date of sale to the original purchaser. The purchaser shall pay any charges for transporting the product to and from the place when the inspection and/or warranty performed. The purchaser shall be responsible for any damage or loss incurred in connection with the transportation of any engine or any part(s) thereof submitted for inspection and/or warranty work.

If you have any questions regarding your warranty rights and responsibilities, you should contact Eastern Tools & Equipment, Inc.

## PRODUCT REGISTRATION

For more efficient customer service, please fill out the information below and mail to Eastern Tools & Equipment, Inc. Product Warranty and Registration Division.

Model No. \_\_\_\_\_ Engine Serial No. \_\_\_\_\_ Purchase Date \_\_\_\_/\_\_\_\_/\_\_\_\_

### Purchased from:

Retail Location  Private Consumer  Other \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Purchase Price \_\_\_\_\_

Purchased:  New  Used

### Consumer Information:

Name \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_

Street Address \_\_\_\_\_ Suite or Apt No. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip Code \_\_\_\_\_

Province or County \_\_\_\_\_

Are you a:  Business  Residence

### Product Usage Information:

How often will you use this product?

Everyday  Periodically  Emergency Use Only  Other

### What type of application will you use this product in?

Heavy Commercial  Moderate Commercial  Light Commercial  Tradeshows

Heavy Residential  Moderate Residential  Light Residential  Camping/Backpacking

Other \_\_\_\_\_

### Important information:

It is critical to your warranty that the original point of sales receipt be retained by current consumer, and in order to comply with Eastern Tools & Equipment Product Warranty statement you must return the registration card within original purchase. Product warranty is valid from original date of purchase.

Please mail the above card to:

**Eastern Tools & Equipment, Inc.**  
**600 Industrial Parkway**  
**Norwalk, OH 44857**