



English	02
Deutsch	19
Español	37
Français	54
Italiano	71

Nederlands	88
Polski	105
Português	123
Svenska	140



0099001633-02

Model: SPI1 Automatic Battery Maintainer OWNER'S MANUAL

AWARNING READ THE ENTIRE MANUAL BEFORE USING THIS PRODUCT. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

Markings and symbols





Read manual before using.

Warning



Caution, risk of electric shock.



to rain.



For indoor use only.



Contact the equipment supplier for details on how to properly dispose of this product within a specific country, per WEEE requirements.



Use in a well-ventilated area.



Keep away from sparks and flame – battery could emit explosive gases.

Plug types







IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

SAVE THESE INSTRUCTIONS - This manual will show you how to use your charger safely and effectively. Please read, understand and follow these instructions and precautions carefully, as this manual contains important safety and operating instructions. The safety messages used throughout this manual contain a signal word, a message and an icon.

The signal word indicates the level of the hazard in a situation.

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or bystanders.

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.

Indicates a potentially hazardous situation which, if not avoided, could result in moderate or minor injury to the operator or bystanders.

IMPORTANT

Indicates a potentially hazardous situation which, if not avoided, could result in damage to the equipment or vehicle or property damage.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS. 1. This manual contains important safety and operating instructions.

AWARNING AWARNING RISK OF ELECTRIC SHOCK OR FIRE.

1.1 Read the entire manual before using this product. Failure to do so could result in serious injury or death. **1.2** Children should be supervised to ensure that they

do not play with the appliance. This appliance can be used by children aged from 8 years and above and persons with reduced physical,

sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- **1.3** This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the charger by a person responsible for their safety. Children should be supervised to ensure they do not play with the charger.
- 1.4 Do not expose the charger to rain or snow.
- **1.5** Use only recommended attachments. Use of an attachment not recommended or sold by Schumacher® Electric Corporation may result in a risk of fire, electric shock or injury to persons or damage to property.

- **1.6** To reduce the risk of damage to the electric plug or cord, pull by the plug rather than the cord when disconnecting the charger.
- 1.7 An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
 - That the pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger.
 - That the extension cord is properly wired and in good electrical condition.
 - That the wire size is large enough for the AC ampere rating of the charger as specified in section 8.
- 1.8 To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning. Simply turning off the controls will not reduce this risk.
- 1.9 Do not operate the charger with a damaged cord or plug. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 1.10 Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way; take it to a qualified service person.
- 1.11 Do not disassemble the charger; take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.

AWARNING RISK OF



RISK OF EXPLOSIVE GASES.

1.12 WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.

- 1.13 To reduce the risk of a battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Review the cautionary markings on these products and on the engine.
- 1.14 This charger employs parts, such as switches and circuit breakers, that tend to produce arcs and sparks. If used in a garage, locate this charger 18 inches (46 cm) or more above floor level.

Do not use with non-rechargeable batteries.

Use only with lead-acid rechargeable batteries.



Do not start the vehicle with the charger connected to the AC outlet, or it may damage the charger and your vehicle.

2. PERSONAL PRECAUTIONS

AWARNING RISK OF EXPLOSIVE GASES.



2.1 NEVER smoke or allow a spark or flame in the vicinity of a battery or engine.

2.2 Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead-acid or lithium ion battery. These

batteries can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.

- 2.3 Be extra cautious, to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit the battery or other electrical part that may cause an explosion.
- 2.4 Use this charger for charging only 6 and 12V lead-acid, calcium, gel and AGM-type rechargeable batteries with rated capacities of 1.2-50Ah. It is not intended to supply power to a low voltage electrical system other than in a starter-motor application. Do not use this battery charger for charging dry-cell batteries that are commonly used with home appliances or lithium ion batteries used in cell phones, laptops, power tools, etc. These batteries may burst and cause injury to persons and damage to property.
- 2.5 NEVER charge a frozen battery.
- 2.6 Consider having someone nearby to come to your aid when you work near a lead-acid battery.
- 2.7 Have plenty of fresh water and soap nearby, in case battery acid contacts your skin, clothing or eyes.
- **2.8** Wear complete eye and body protection, including safety goggles and protective clothing. Avoid touching your eyes while working near the battery.
- 2.9 If battery acid contacts your skin or clothing, immediately wash the area with soap and water. If acid enters your eye, immediately flood the eye with cold running water for at least 10 minutes and get medical attention right away.
- 2.10 If battery acid is accidentally swallowed, drink milk, the whites of eggs or water. DO NOT induce vomiting. Seek medical attention immediately.

3. PREPARING TO CHARGE



RISK OF CONTACT WITH BATTERY ACID. BATTERY ACID IS A HIGHLY CORROSIVE SULFURIC ACID.

3.1 If it is necessary to remove the battery from the vehicle to charge it, always remove the grounded terminal first. Make sure all of the accessories in the vehicle are off, to prevent arcing.

- **3.2** Be sure the area around the battery is well ventilated while the battery is being charged.
- **3.3** Clean the battery terminals before charging the battery. During cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use

baking soda and water to neutralize the battery acid and help eliminate airborne corrosion. Do not touch your eyes, nose or mouth.

- 3.4 Add distilled water to each cell until the battery acid reaches the level specified by the battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries (VRLA), carefully follow the manufacturer's recharging instructions.
- **3.5** Read, understand and follow all instructions for the charger, battery, vehicle and any equipment used near the battery and charger. Study all of the battery manufacturer's specific precautions while charging and recommended rates of charge.
- 3.6 Determine the voltage of the battery by referring to the vehicle owner's manual and make sure that the output voltage selector switch is set to the correct voltage. If the charger has an adjustable charge rate, charge the battery in the lowest rate first.
- 3.7 Make sure that the charger cable clips make tight connections.

4. **CHARGER LOCATION**







RISK OF EXPLOSION AND CONTACT WITH BATTERY ACID.

4.1 Locate the charger as far away from the battery as the DC cables permit.

4.2 Never place the charger directly above

the battery being charged: gases from the battery will corrode and damage the charger.

- 4.3 Do not set the battery on top of the charger.
- **4.4** Never allow battery acid to drip onto the charger when reading the electrolyte specific gravity or filling the battery.
- **4.5** Do not operate the charger in a closed-in area or restrict the ventilation in any way.

5. **DC CONNECTION PRECAUTIONS**

- 5.1 Connect and disconnect the DC output connectors only after removing the AC plug from the electrical outlet. Never allow the connectors to touch each other.
- **5.2** Attach the connectors to the battery and chassis, as indicated in sections 6 and 7.

FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED IN THE VEHICLE.



6.



AWARNING AWARNING AWARNING A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO **REDUCE THE RISK OF A SPARK NEAR** THE BATTERY:

IMPORTANT

Do not start the vehicle with the charger connected to the AC outlet, or it may damage the charger and your vehicle.

- 6.1 Position the AC and DC cables to reduce the risk of damage by the hood, door and moving or hot engine parts. NOTE: If it is necessary to close the hood during the charging process, ensure that the hood does not touch the metal part of the battery connectors or cut the insulation of the cables.
- **6.2** Stay clear of fan blades, belts, pulleys and other parts that can cause injury.
- 6.3 Check the polarity of the battery posts. The POSITIVE (POS, P, +) battery post usually has a larger diameter than the NEGATIVE (NEG, N, -) post.
- 6.4 Determine which post of the battery is grounded (connected) to the chassis. The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. See steps 6.5 and 6.6. The battery charger is then to be connected to the supply mains. The connection to the supply mains is to be in accordance with the national wiring rules.
- 6.5 For a negative-grounded vehicle, connect the POSITIVE (RED) connector from the battery charger to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) connector to the vehicle chassis or engine block away from the battery. Do not connect the connector to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 6.6 For a positive-arounded vehicle, connect the NEGATIVE (BLACK) connector from the battery charger to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) connector to the vehicle chassis or engine block away from the battery. Do not connect the connector to the carburetor, fuel lines or sheetmetal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 6.7 Connect charger AC supply cord to electrical outlet.
- **6.8** After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
- 6.9 See Operating Instructions for length of charge information.

FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE OF THE VEHICLE. 7.







A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

7.1 Check the polarity of the battery posts.

The POSITIVE (POS, P, +) battery post usually has a larger diameter than the NEGATIVE (NEG, N, -) post.

- 7.2 Attach at least a 24-inch (61 cm) long 7 AWG (10 mm²) insulated battery cable to the NEGATIVE (NEG, N, -) battery post.
- 7.3 Connect the POSITIVE (RED) charger connector to the POSITIVE (POS, P, +) post of the battery.

- 7.4 Position yourself and the free end of the cable you previously attached to the NEGATIVE (NEG, N, -) battery post as far away from the battery as possible – then connect the NEGATIVE (BLACK) charger connector to the free end of the cable.
- 7.5 Do not face the battery when making the final connection.
- 7.6 Connect charger AC supply cord to electrical outlet.
- 7.7 When disconnecting the charger, always do so in the reverse order of the connecting procedure and break the first connection while as far away from the battery as practical.
- **7.8** A marine (boat) battery must be removed and charged on shore. To charge it onboard requires equipment specially designed for marine use.

8. GROUNDING AND AC POWER CORD CONNECTIONS



AWARNING AWARNING RISK OF ELECTRIC SHOCK OR FIRE.

8.1 This battery charger is for use on a nominal 230V, 50/60Hz circuit. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. The plug pins must fit the receptacle (outlet). Do not use with an ungrounded system.

8.2 ADANGER Never alter the AC cord or plug provided – if it does not fit the outlet, have a proper outlet installed by a qualified electrician. An improper connection can result in a risk of an electric shock or electrocution.

8.3 USING AN EXTENSION CORD

The use of an extension cord is not recommended. If you must use an extension cord, follow these guidelines:

- Pins on plug of extension cord must be the same number, size, and shape as those of plug on charger.
- · Ensure that the extension cord is properly wired and in good electrical condition.
- Wire size must be large enough for the AC ampere rating of charger.

Recommended minimum AWG size for extension cord:

- 100 feet (30.5 meters) long or less use an 18 gauge (1.0 mm²) extension cord.
- Over 100 feet (30.5 meters) long use a 16 gauge (1.31 mm²) extension cord.

9. ASSEMBLY INSTRUCTIONS

9.1 Remove all cord wraps and uncoil the cables prior to using the battery charger.

10. FEATURES



- 1. Hook attachment
- 2. Charging status LED
- 3. Bad Battery LED
- 4. Power LED
- 5. Clamps Reversed LED
- 6. Battery clamps (quick-connect)
- Ring connectors (quick-connect)

11. CONTROL PANEL

LED INDICATORS

- POWER (green) LED lit: The charger is connected to AC power.
- CHARGING INDICATOR:

Yellow/orange LED lit: The charger is charging the battery. Yellow/orange LED flashing: The charger is in abort mode. Green LED pulsing: The battery is fully charged and the charger is in maintain mode.



- CLAMPS REVERSED (red) LED flashing: The connections are reversed.
- BAD BATTERY (red) LED lit: The charger has detected a problem with the battery. See *Troubleshooting* for more information.

NOTE: See Operating Instructions for a complete description of the charger modes.

12. OPERATING INSTRUCTIONS

IMPORTANT Do not start the vehicle with the charger connected to the AC outlet, or it may damage the charger and your vehicle.

NOTE: This charger is equipped with an auto-start feature. Current is supplied to the battery clamps before a battery is connected, and the clamps may spark if touched together.

BATTERY INFORMATION

This charger can be used with 3-celled (6V) and 6-celled (12V) lead-acid batteries with rated capacities of 12Ah (6V) and 1.2-50Ah (12V).

CHARGING A BATTERY IN THE VEHICLE

- 1. Turn off all the vehicle's accessories.
- 2. Keep the hood open.
- 3. Clean the battery terminals.
- Place the charger on a dry, non-flammable surface, or use the convenient hook attachment to hang the unit safely outside the work area.
- Lay the AC/DC cables away from any fan blades, belts, pulleys and other moving parts.
- 6. Connect the battery, following the precautions listed in sections 6 and 7.
- 7. Connect the charger to a live grounded 230V AC outlet.
- 8. The green POWER LED will light.
- When charging is complete, disconnect the charger from the AC power, remove the clamps from the vehicle's chassis, and then remove the clamp from the battery terminal.

CHARGING A BATTERY OUTSIDE OF THE VEHICLE

- 1. Place battery in a well-ventilated area.
- 2. Clean the battery terminals.
- 3. Connect the battery, following the precautions listed in sections 6 and 7.
- 4. Connect the charger to a live grounded 230V AC outlet.
- 5. The green POWER LED will light.
- 6. When charging is complete, disconnect the charger from the AC power, disconnect the negative clamp, and finally the positive clamp.
- 7. A marine (boat) battery must be removed and charged on shore.

USING THE QUICK-CONNECT CABLE CONNECTORS

Connect either of the two (2) output cable leads to the charger. Make sure to place the charger on a dry, non-flammable surface.

IMPORTANT Never connect the clip and ring terminal connectors together for use in other applications, such as external battery or other power source charging, or to extend the output cable length, as reverse polarity and/or overcharge conditions will occur.

USING THE 50 AMP BATTERY CLAMPS

- 1. Connect the end of the charger output cable to the end of the battery cable quick-connect and clamps.
- Follow the steps in sections 6 and 7, to connect the output clamps to the battery.
- 3. Connect the charger to a live grounded 230V AC outlet.

USING THE RING CONNECTORS

- 1. To permanently attach to a battery, loosen and remove each nut from the bolt at the battery terminal.
- 2. Connect the red POSITIVE connector ring to the POSITIVE battery terminal.
- 3. Connect the black NEGATIVE connector ring to the NEGATIVE battery terminal.
- 4. Replace and tighten the nuts to secure.
- Connect the cable to the end of the charger output cord. Take care to keep the wires and plug away from metal and moving parts.
- 6. Connect the charger to a live grounded 230V AC outlet.

BATTERY CHARGING TIMES

CCA = Cold Cranking Amps Ah = Amp Hour

BATTER	RY SIZE/RATING		CHARGE TIME (1A)
SMALL BATT	TERIES	6-12 Ah	3¾-7½ h
Motorcycle, garde	n tractor, etc.	12-32 Ah	7½-20 h
CARS AND TRUCKS	200-315 CCA	36-46 Ah	18-25 h

Times are based on a 50% discharged battery and may change, depending on age and condition of battery.

AUTOMATIC CHARGING MODE

When an Automatic Charge is performed, the charger switches to the Maintain Mode automatically after the battery is charged.

ABORTED CHARGE

If charging cannot be completed normally, charging will abort. When charging aborts, the charger's output is shut off. The BAD BATTERY $\stackrel{\frown}{\Longrightarrow}$ (red) LED will light and the yellow/orange $\stackrel{\checkmark}{\longrightarrow}$ (CHARGING) LED will flash. Do not continue attempting to charge this battery. Check the battery and replace, if necessary.

COMPLETION OF CHARGE

Charge completion is indicated by the green < 𝒴 (CHARGED) LED. When pulsing, the charger has switched to the maintain mode of operation.

MAINTAIN MODE (FLOAT-MODE MONITORING)

When the green <>>> (CHARGED) LED is pulsing, the charger has started maintain mode. In this mode, the charger keeps the battery fully charged by delivering a small current when necessary. If the charger has to provide its maximum maintain current for a continuous 12 hour period, it will go into abort mode (see Aborted Charge section). This is usually caused by a drain on the battery or the battery could be bad. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced.

MAINTAINING A BATTERY

The SPI1 maintains both 6 and 12 volt batteries, keeping them at full charge. **NOTE:** The maintain mode technology allows you to safely charge and maintain a healthy battery for extended periods of time. However, problems with the battery, electrical problems in the vehicle, improper connections or other unanticipated conditions could cause excessive current draws. As such, occasionally monitoring your battery and the charging process is recommended.

13. MAINTENANCE AND CARE

A minimal amount of care can keep your battery charger working properly for years.

- 13.1 Clean the clamps each time you are finished charging. Wipe off any battery fluid that may have come in contact with the clamps, to prevent corrosion.
- **13.2** Occasionally cleaning the case of the charger with a soft cloth will keep the finish shiny and help prevent corrosion.
- 13.3 Coil the input and output cords neatly when storing the charger. This will help prevent accidental damage to the cords and charger.
- 13.4 Store the charger unplugged from the AC power outlet, in an upright position.
- **13.5** Store inside, in a cool, dry place. Do not store the clamps on the handle, clipped together, on or around metal, or clipped to the cables.

14. DISPOSAL INFORMATION



Do not dispose of this product with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, and to promote the sustainable reuse of material resources, recycle it responsibly. To discard your used device, please use the return and collection systems or contact the retailer where the

product was purchased, for environmentally-safe recycling.

15. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
All five LEDs come on for 2 seconds, then turn off.	The charger is plugged into an AC outlet.	No problem; this is normal.
I cannot select a 6V or 12V setting.	The charger is equipped with Auto Voltage Detection, which automatically detects the voltage and charges the battery.	No problem; this is normal.
The green POWER LED does not light when charger is properly connected.	AC outlet is dead. Poor electrical connection.	Check for open fuse or circuit breaker supplying AC outlet. Check power cord and
		fitting plug.
The red 🖂 BAD BATTERY LED is lit and yellow/orange	The battery voltage is still below 10V (for a 12V battery) or 5V (for a 6V battery) after 2 hours of charging. (or) In maintain mode, the output current is more than 1.5A for 12 hours.	The battery may be defective. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The red 🖾 BAD BATTERY LED is lit.	The battery is sulfated.	The charger is in desulfation mode. Continue charging for several hours. If not successful, have the battery checked.
	Lack of progress is detected and battery voltage is below 14.2V (for a 12V battery) or 7.1V (for a 6V battery).	The battery may be overheated. If so, allow the battery to cool. The battery may be too large or have a short circuit. Have battery checked or replaced.
	The battery's initial voltage is below 12.2V (for a 12V battery) or 6.1V (for a 6V battery) and the total input is less than 1.5 Ah.	The battery capacity is too low, or the battery is too old. Have it checked or replaced.
	The battery voltage drops to below 12.2V (for a 12V battery) or 6.1V (for a 6V battery) in Maintain Mode.	The battery won't hold a charge. May be caused by a drain on the battery or the battery could be bad. Make sure there are no loads on the battery. If there are remove them. If there are none, have the battery checked or replaced.

16. SPECIFICATIONS

Input Voltage	
Output Voltage	6V or 12V, with Auto Voltage Detection
Output Current Rating	1A @ 6V and 12V

17. REPLACEMENT PARTS

Ring connectors (quick-connect)	.2299001950Z
Battery clamps (quick-connect)	.3899002636Z

18. LIMITED WARRANTY

WARRANTY TERMS AND CONDITIONS

Schumacher Electric Corporation (the "Manufacturer") or the resellers authorized by the Manufacturer (the "Reseller") warrant this Charger (the "Product") for two (2) years, according to the following stipulations. Any and all warranties, other than the warranty included herein, are hereby expressly disclaimed and excluded to the fullest extent permissible under applicable law. Legislation may imply warranties or conditions or impose obligations on Manufacturer which cannot be excluded, restricted or modified in relation to consumer goods.

Consumer End-User Warranty

Any claims under this warranty must be communicated to Reseller within 2 months after discovery of the non-conformity.

Resellers/Professional End-User Warranty

The Manufacturer provides a limited warranty for hidden defects or non-conformities. This warranty is subject to the following conditions:

- The Manufacturer only warrants hidden defects in material or workmanship present in their root cause at the moment of the first sale by the Manufacturer;
- b. Manufacturer's obligation under this warranty is limited to repairing or replacing the Product with a new or reconditioned unit at the sole option of the Manufacturer;
- c. Manufacturer does not have any warranty obligations if the alleged defects were caused by abnormal usage, fair wear and tear, unauthorized use of the Product or use of the Product differing from the description in the applicable manual or other specifications given by the Manufacturer, insufficient care, repairs carried out by persons or entities or with parts not approved by Manufacturer, poor care, accidents, unauthorized changes or modifications, incorrect transport, storage or treatment of the Product;
- d. In order to exercise this right, the Product must be returned complete and in its original state and packaging, with mail costs prepaid, along with proof of purchase to the Manufacturer or its authorized representatives in order for repair or replacement to occur.

Common Warranty Provisions

The warranty mentioned above only applies to the first professional or consumer user having legally acquired the Product from the Manufacturer or a Reseller. No warranty is extended towards clients, agents or representatives of those buyers.

The Product is sold under the specifications, for the use and purpose in accordance with the provisions of this manual, with express exclusion and disclaimer of warranty of any other specifications, uses and purposes.

Authorized Resellers are prohibited from making any statements or providing any warranty in excess of the above warranties Non-authorized resellers may only sell the product under the condition that they assume all warranty obligations with the total exclusion of any warranty provided by the Manufacturer.

Manufacturer does not provide any warranty for any accessories used with the Product that are not manufactured by Schumacher Electric Corporation.

This warranty does not exclude or diminish any claims the Manufacturer may have against the distributors of The Product.

THE MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME OR MAKE ANY OTHER OBLIGATION TOWARDS THE PRODUCT OTHER THAN THIS WARRANTY.

Warranty, Repair Service and Distribution Centers:

For customers outside of the U.S.A., contact your local distributor.

North and South America: Hoopeston in U.S.A. 1-800-621-5485 services@schumacherelectric.com

Europe: Office in Belgium Rue de la Baronnerie 3, B-4920 Harzé-Belgium +32 4 388 20 17 info@ceteor.com

Australia/New Zealand: Schumacher Asia Pacific Pty. Ltd. A.B.N. 43613943525 Unit 53B – 28 Burnside Road, Ormeau Queensland, Australia, 4208 07 3807 6510

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CE DECLARATION OF CONFORMITY

We, Schumacher Electric Corporation 801 East Business Center Drive Mount Prospect, Illinois, 60056, U.S.A.

certify that the Automatic Battery Charger Model SPI1 complies with the following standards:

Low Voltage Directive (LVD): 2006/95/EC (until 04/19/2016) 2014/35/EU (from 04/20/2016) EMC Directive: 2004/108/EC (until 04/19/2016) 2014/30/EU (from 04/20/2016) EN 60335-1:2012 + A11:2014 EN 60335-2-29:2004 + A2:2010

EN 62233:2008

and therefore conforms with the protection requirements relating to safety and electromagnetic compatibility.

The year in which the CE marking was affixed is "2016".

Manufacturer:

Cory A Wat

Cory Watkins, President March 10, 2016

Hereby declares that the equipment **Model SPI1** is compliant to the DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 (RoHS) on the restriction of the use of certain hazardous substances in electrical and electronic equipment while:

The parts do not exceed the maximum concentrations of 0.1% by weight in homogenous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), and 0.01% for cadmium, as required in Commission Decision 2005/618/EC of 18 August 2005.

March 10, 2016

or A

President, Schumacher Electric Corporation - U.S.A.

