



Model: VTV-20

  
TO WORKING VEHICLE

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**VEHICLE TO VEHICLE**  
**e-CHARGE™**  
EMERGENCY CAR STARTER

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**OPERATING INSTRUCTIONS**

1. Plug the short cable into the 12V accessory port of the vehicle with the good battery. Wait for the Power and Status lights to glow steadily.
2. The long cable plug should now be lit. Plug this end into the accessory port of the disabled battery. If the connection to the disabled battery is good, the plug and status light will blink. If the light does not blink, check your connections. Also, try turning the engine ignition key to the ACC position.
3. The plug will blink continuously. Try starting the vehicle after 5 to 10 minutes or if the plug stops blinking. If the vehicle does not start, the plug will continue to blink.
4. If the vehicle does not start after 5 to 10 minutes of charging, wait 15 additional minutes before trying again. When the 15 minute waiting period is up, try starting again.

00-99-000720/1106

5. If the vehicle still does not start, repeat step 4. The VTV-20 will continue charging the battery for up to an hour.
6. If your vehicle does not start after an hour of charging, there may be other problems with the engine and/or starting system. It is also possible that the battery is incapable of taking a charge and needs to be replaced.

**NOTE:** It is normal for the status light to blink rapidly and/or to hear a clicking noise while charging.

7. If your vehicle does start, and if your battery was in severely discharged state, you will want to completely charge your battery with a standard battery charger as soon as possible.
8. If the Working Vehicle's Power LED light continually flashes on and off, then the Working Vehicle's battery may be too low to use. Try connecting to a different vehicle before assuming that the VTV-20 is dysfunctional.

## TROUBLESHOOTING

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
VTV-20 lights are not lit when plugged in	Wrong end is plugged in	Plug the short end into the good-battery vehicle's accessory outlet
	Bad connection in the accessory port	Disconnect and reconnect the plug
	Accessory port does not have power	Turn ignition key to ACC position
	Fuse in cables or car is blown	Replace fuse(s)
Power light is blinking and status light is off	VTV-20 is overheated	Make sure the VTV-20 has sufficient clearance and that the vents are not blocked
	VTV-20 detected a current overload	Unplug the VTV-20, wait 5 seconds, then plug the VTV-20 back in

PROBLEM	CAUSE	SOLUTION
Power light is blinking and status light is on	The good battery does not have sufficient power (less than 11 volts)	Start the good-battery vehicle to provide extra power to the VTV-20
	The short cable has been plugged into the wrong vehicle	Make sure the short cable is plugged into the good-battery's vehicle

**WARNING:** Handling the cord on this product or cords associated with accessories sold with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

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Step ① Start vehicle and insert black plug into working vehicle's accessory or cigarette lighter port.  
Status and Power lights will glow.

Step ② Insert lighted plug into disabled vehicle's accessory or cigarette lighter port.  
Status light will begin to blink while charging.

Step ③ **START VEHICLE**  
after 5 to 10 minutes of charging.



STATUS



POWER

See reverse for more detailed information.



TO DISABLED VEHICLE  
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# **e-CHARGE™**

**MODEL VTV-20**

**INPUT: 11-15VDC/13A**

**OUTPUT: 13 ADC @ 12 VDC Maximum**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

**WARNING: Failure to follow instructions may cause damage or explosion. Read Owner's manual before use.**

## **STARTING**

- Step 1 POWER LIGHT** – If the light in black plug is not glowing, check connection. If the Power light on front of charger is blinking, unplug for 5 second and reconnect.
- Step 2 STATUS LIGHT** – If light is not blinking - check connections. Verify disabled vehicle key is in the Accessory position.
- Step 3 START VEHICLE** – If disabled vehicle does not start after 10 minutes of charging, continue charging. Charging for longer periods between starting attempts will improve chances for starting your vehicle.

## **FUSE**

The car to car charger comes with two 20-amp fuses located in the ends of the male adapter plugs. Replace only with a fuse of the same size and rating. To replace a fuse, simply unscrew the metal top of the male plug.

## **STORAGE**

When not in use, store in an area where the temperature range is between 0-40C (32-104°F). The unit should be stored in it's bag when not in use to prevent damage. It is normal for the starter to become warm during operation.

**CAUTION:** Do not expose to rain. Replace defective cords or wires immediately. Use in a well-ventilated area. Do not overcharge battery  
— See Instruction Manual.

Made in China  
0899003008

## LIMITED WARRANTY

SCHUMACHER ELECTRIC CORPORATION  
801 BUSINESS CENTER DRIVE  
MOUNT PROSPECT, ILLINOIS 60056-2179

MAKES THIS LIMITED WARRANTY TO THE ORIGINAL PURCHASER AT RETAIL OF THIS PRODUCT. THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

Schumacher Electric Corporation warrants this battery charger for 2 years from date of purchase at retail against defective material or workmanship. If such should occur, the unit will be repaired or replaced at the option of the manufacturer. It is the obligation of the purchaser to forward the unit together with the original sales receipt, transportation and/or mailing charges prepaid to the manufacturer or its authorized representative.

For warranty service, return your VTV-20 to:  
Schumacher Electric Corp., Warranty Service Department  
1025 E. Thompson, Hoopeston, IL 60942-0280.

Questions? Call: Customer Service: 800-621-5485  
7 a.m. - 4:30 p.m. CST, Monday through Friday.

This limited warranty is void if the product is misused, subjected to careless handling, or repaired by anyone other than the manufacturer or its authorized representative.

The manufacturer makes no warranty other than this limited warranty and expressly excludes any implied warranty including any warranty for consequential damages.

THIS IS THE ONLY EXPRESS LIMITED WARRANTY AND THE MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME OR MAKE ANY OTHER OBLIGATION TOWARDS THE PRODUCT OTHER THAN THIS EXPRESS LIMITED WARRANTY. THE MANUFACTURER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE OF THIS PRODUCT AND EXPRESSLY EXCLUDES SUCH FROM THIS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LENGTH OF IMPLIED WARRANTY SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

## NOTES