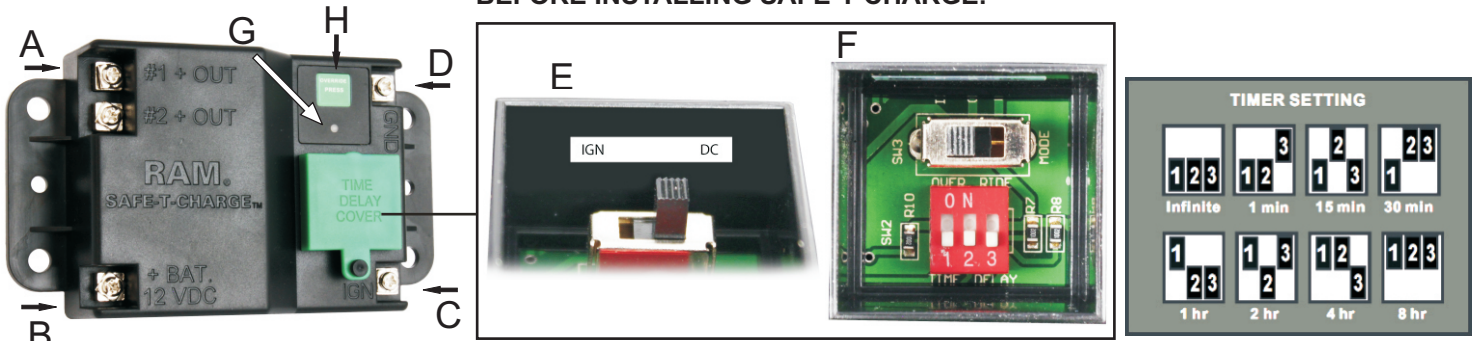


RAM SAFE-T-CHARGE SPECIFICATIONS & SETUP GUIDE (SIDE A)

TO ENSURE SAFE INSTALLATION AND PROPER USE, READ ALL WARNINGS, SPECIFICATIONS AND STEPS BEFORE INSTALLING SAFE-T-CHARGE.



SPECIFICATIONS:

- A. OUTPUT TERMINALS (QTY. 2)
- B. BATTERY 12V INPUT TERMINAL POSITIVE
- C. IGNITION TERMINAL
- D. GROUND TERMINAL

- E. SELECTOR FOR BATTERY (DC) OR IGNITION (IGN) MODE
- F. 3-DIP SWITCH FOR POWER-OFF DELAY SETTING
- G. TIME DELAY LED LIGHT
- H. OVERRIDE BUTTON

CONFIGURING POWER-OFF DELAY

POWER-OFF DELAY FEATURE ALLOWS DEVICES TO REMAIN POWERED FOR A PREDETERMINED LENGTH OF TIME AFTER ENGINE HAS BEEN TURNED OFF. DELAY BEGINS AS SOON AS ENGINE IS OFF, AND DEVICES WILL SHUT OFF WHEN DELAYED TIME HAS PASSED. SEE CHART ABOVE FOR CONFIGURING DIP SWITCHES TO DESIRED POWER-OFF DELAY.

SELECTING MODE (E)

BATTERY SENSING (DC): SAFE-T-CHARGE WILL RESPOND TO THE RISING OR DROPPING OF BATTERY VOLTAGE. WHEN ENGINE IS TURNED OFF, UNIT WILL DETECT THE DROP OF THE VOLTAGE AND ACTIVATE POWER-OFF DELAY. RECOMMENDED FOR ELECTRICALLY NOISY AFTERMARKET CONVERTERS.

IGNITION SWITCH (IGN): SAFE-T-CHARGE WILL RESPOND TO A SWITCHED VOLTAGE SOURCE WITH A RANGE BETWEEN 2/3 BATTERY VOLTAGE AND 19 VOLTS. REQUIRES ADDITIONAL WIRE TO MEASURE A POWER SOURCE THAT IS ACTIVATED BY IGNITION SWITCH. IGN MODE RESPONDS TO A FUNCTION IN VEHICLE ACTIVATED BY IGNITION, SUCH AS LIGHTS OR RADIO.

CONNECTING WIRES

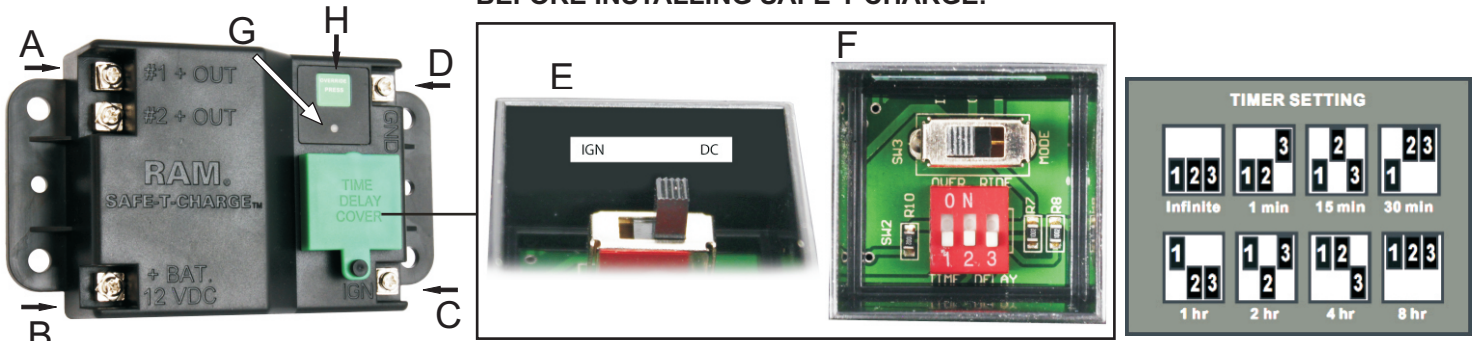
USE MINIMUM 10-GAUGE WIRE SIZE BETWEEN (B) BATTERY TERMINAL AND BATTERY, REGARDLESS OF FUSE SIZE, AND LARGER FOR LONG RUNS OVER 15 FEET.

1. CONNECT APPROPRIATE SIZE WIRE FROM (A) OUTPUT TERMINAL TO YOUR PERIPHERALS.
2. CONNECT 18-GAUGE WIRE FROM (D) GROUND TERMINAL TO VEHICLE CHASSIS (IDEAL CONNECTION IS MADE DIRECTLY TO NEGATIVE BATTERY TERMINAL).
3. (OPTIONAL) CONNECT 18-GAUGE WIRE FROM (C) IGNITION TERMINAL TO ON/OFF POWER SOURCE.

WHEN PROPERLY CONNECTED, (G) LED LIGHT WILL FLASH GREEN ONCE. 5 SECONDS LATER UNIT WILL BE TURNED ON (CONSTANT AMBER LED) USE INLINE FUSES IN ALL WIRE RUNS AND ENSURE THAT ALL WIRES ARE SECURED WITH ALL TERMINALS FULLY TIGHTENED.

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RAM SAFE-T-CHARGE SPECIFICATIONS & SETUP GUIDE (SIDE B)

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VOLTAGE PROTECTION

- SURGE/TRANSIENT:** TRANSIENT SUPPRESSION IS BUILT-IN TO SAFE-T-CHARGE TO PROTECT EQUIPMENT FROM COMMON VOLTAGE SURGES AND SPIKES.
- REVERSE POLARITY:** SAFE-T-CHARGE DOES NOT OPERATE WHEN VOLTAGE IS REVERSED. UNIT AND PERIPHERALS WILL BE PROTECTED FROM DAMAGE DUE TO JUMP-START OR IMPROPER INSTALLATION.
- LOW VOLTAGE:** IN LOW VOLTAGE CONDITIONS BELOW 11V, SAFE-T-CHARGE WILL AUTOMATICALLY ACTIVATE PRESET POWER-OFF DELAY. TO SAVE BATTERY LIFE, PRESS AND HOLD (H) OVERRIDE BUTTON FOR 5 SECONDS TO SHUT OFF UNIT. (G) LED LIGHT WILL TURN OFF WHEN UNIT IS SHUT OFF.

LED LIGHT & TONE INDICATORS:

- NO LIGHT** = NO CONNECTION / TURNED OFF
GREEN LED FLASH = CONNECTION SENSED / ENGINE ON
CONSTANT AMBER LED = CONNECTED / TURNED ON
1-SECOND INTERVALS AMBER LED = POWER-OFF DELAY IS ACTIVE
1-MINUTE INTERVAL TONES = LAST 5 MINUTES OF POWER-OFF DELAY

OVERRIDE BUTTON FUNCTIONS

- PRESS ONCE WHILE OFF** = TURNS ON
PRESS ONCE WHILE ON = ACTIVATES POWER-OFF DELAY
PRESS AND HOLD 5 SECONDS = DEVICE SHUTS OFF
TURNING DEVICE ON WILL RESET ANY PREVIOUSLY ELAPSED POWER-OFF DELAY

SAFETY PRECAUTIONS

AVOID CONTACT WITH WATER OR STEAM. UNTIL DISCONNECTED, POWER IS PRESENT IN UNIT AT ALL TIMES. DO NOT OPERATE OR EXPOSE DEVICE TO EXTREME TEMPERATURES. SAFE-T-CHARGE MUST BE USED WITH AN INLINE FUSE ON INPUT POWER. POWER OUTPUT FUSES ARE OPTIONAL AND MUST BE SIZED PROPERLY FOR EACH PERIPHERAL WHEN USED. FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS COULD RESULT IN UNSAFE CONDITIONS.

MOUNTING OPTIONS

USE THE 6 HOLES ON THE SIDES OF SAFE-T-CHARGE AS NEEDED TO MOUNT IN THE TRUNK OR CABIN OF YOUR VEHICLE. UNIT SHOULD BE WIRED THROUGH A FUSE DIRECTLY TO THE BATTERY. **DO NOT MOUNT UNDER THE HOOD.**

LIFETIME WARRANTY FOR ALL MOUNTING COMPONENTS

TWO YEAR WARRANTY ON ALL INTERNAL ELECTRONICS

The exclusive NPI Lifetime Warranty states that all RAM mounting components and parts are warranted against defects in materials and workmanship for the life of the product or part. NPI's Lifetime Warranty covers the mount or its components only. The mounted device is not covered under the Lifetime Warranty and will not be replaced if damaged as a result of mount failure. This warranty is expressly limited to the persons in the United States, and all foreign countries who purchase RAM for resale or use in the ordinary course of the buyer's business. This warranty does not cover and product or part that has been abused, worn out, heated, ground or otherwise altered, used for a purpose other than that for which it was intended, or used in a manner inconsistent with any instructions regarding its use.

National Products, Inc., 8410 Dallas Ave S., Seattle, WA 98108, (206) 763-8361 www.ram-mount.com



RMR-INS-234-VCP1

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