MAGNUM ENERGY

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DMX POWER

Introduction

The MM-ISA (Ignition Switch Activate) pigtail adapter is designed to automatically turn the inverter on when a 12 volt DC signal is supplied. This is useful in applications where it may be desirable to allow 120VAC inverter loads to be automatically powered when the vehicle ignition switch is turned on.

The MM-ISA pigtail adapter is simple to install and is used only with MM, MM-AE, or MMS Series inverters.

Installation

To properly install the MM-ISA (refer also to Figure 2):

1. The MM-ISA wire should be connected to a circuit downstream from the vehicle ignition switch, so that 12VDC is available when the ignition switch is on, and not available when the ignition switch is off. The circuit selected should be protected by a fuse rated at 5 amps DC maximum.

CAUTION: If using 24 volts, place a 15k ohm resistor in-line with the red wire on the MM-ISA to ensure this increased voltage does not damage the inverter.

2. The MM-ISA pigtail **must** be plugged into the ACCESSORIES port on the inverter. If using the BTS, then a 6-conductor phone splitter must be used to connect both the MM-ISA and the BTS. See Figure 1 below.

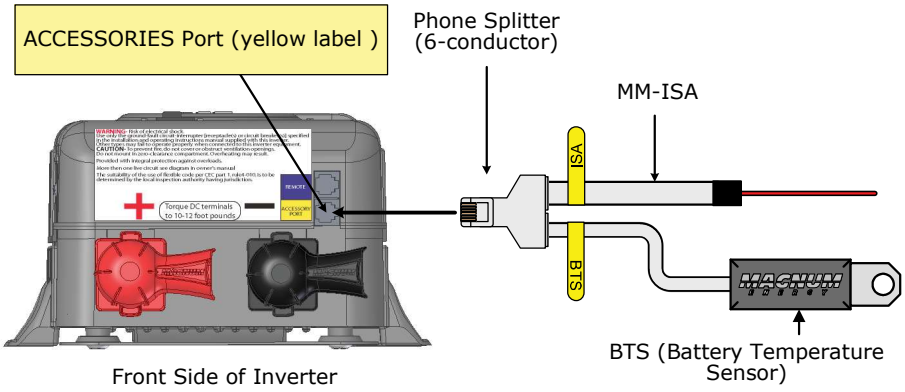

Figure 1, MM-ISA Connection to Inverter

Operation

1. The inverter automatically shuts off and the ON/OFF button on the inverter (and remote control, if connected) is **disabled** when the ignition switch is turned off (removes 12VDC from the MM-ISA pigtail wire).

2. The inverter automatically turns on and the ON/OFF buttons (on inverter and the remote panel) are **disabled** when the ignition switch is turned on (provides 12VDC to the MM-ISA pigtail wire).

Info: The charger will continue to function and is not affected by the MM-ISA pigtail operation.

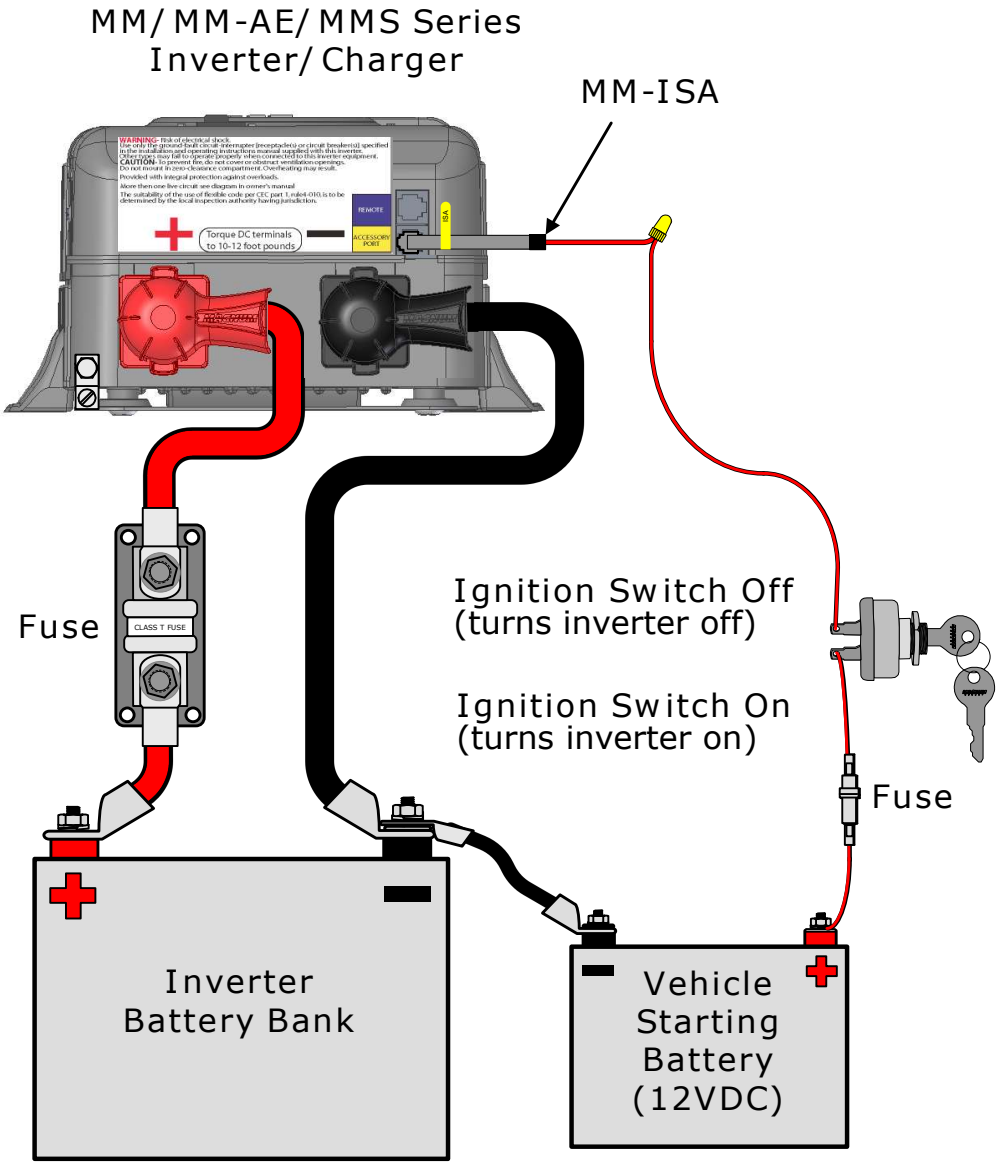

Figure 2, MM-ISA Installation