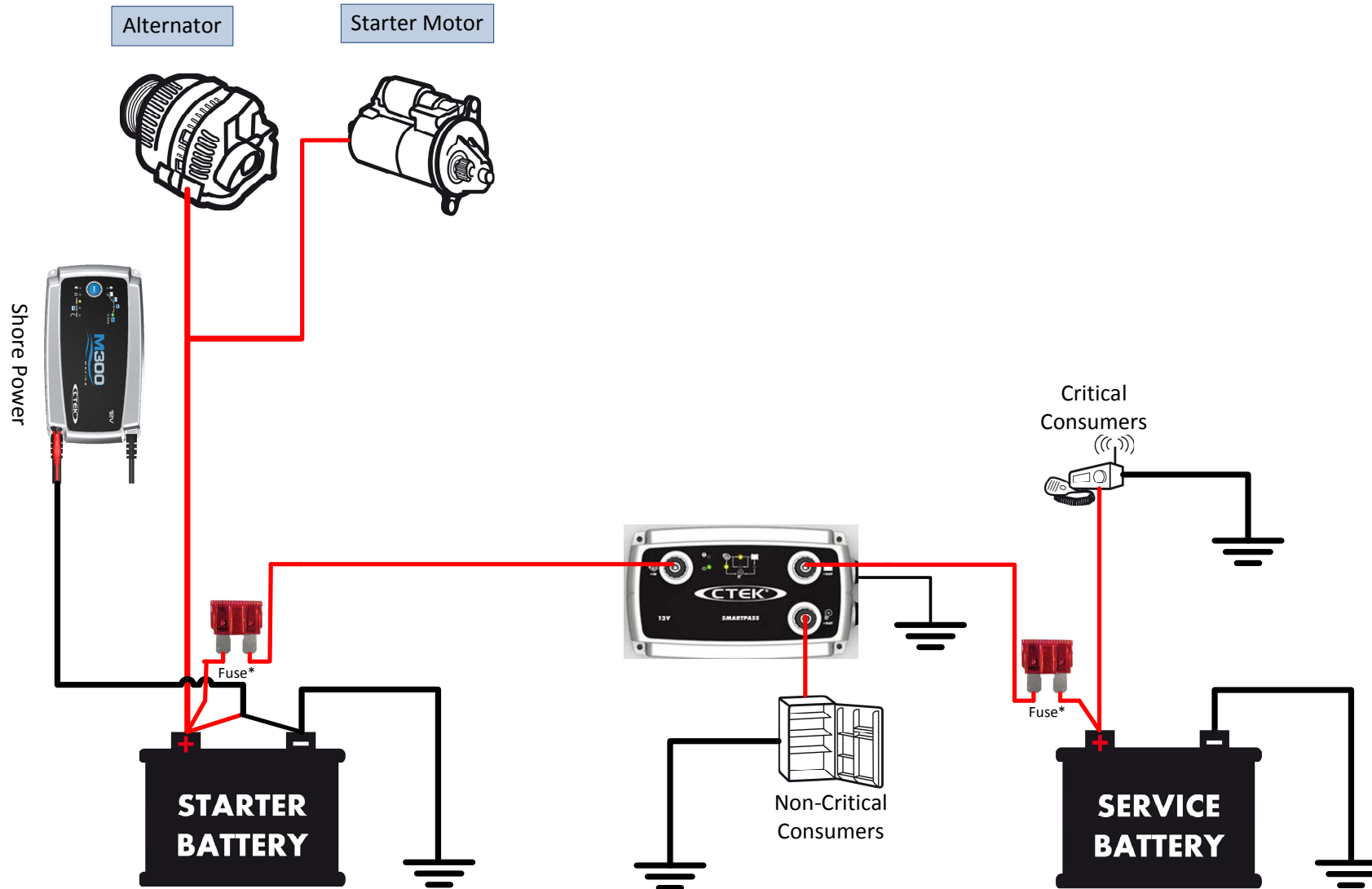


Date: 2016-02-18
Version: 1.0

Title: SMARTPASS with Charger at Starter battery

CTEK
MAXIMIZING BATTERY PERFORMANCE



* Fuse recommended. Please verify directive for applicable installation regarding fuses

General Information

Starter battery:

Typically 55Ah to 100Ah for automotive applications.

A start battery should never be deeply discharged

Fuses:

If fuses are used, mount the fuses as close to each battery as possible.

Suitable fuse size:

D250S DUAL: 30A

D250S DUAL and SMARTPASS: 150A

Please verify directive for applicable installation regarding fuses.

Consumers:

Critical consumers are connected directly to the service battery bank. A critical consumer could be VHF radio.

Non critical consumers are connected directly to the consumer output terminal at SMARTPASS. If battery voltage reach a critical low level, the consumer output terminal is deactivated to protect the Service battery. Non critical consumers receive current from the alternator instead of the Service battery during driving, to make the charging of the Service battery faster

Service battery:

Size 28Ah to 800Ah.

Batteries are connected in parallel to increase capacity (Ah).

Suitable deep cycle batteries should be used.

Wiring:

Please see instruction manual for suitable dimensions.

Please verify directive for applicable installation regarding wiring.

A thick wire generate less voltage drop than a thinner wire at high current.

Temperature sensor:

Attach the temperature sensor onto the service battery.

Battery charger (AC):

When regular discharge on both Service and Starter battery, a Battery charger required.

Connect the Battery charger on Starter battery and both Starter and Service battery will be individually recharged from the Battery charger and D250S DUAL/SMARTPASS.

Select a charger that is suitable regarding the capacity of the battery bank and also the requirement of recharge time. A typical charger is MXS25 or M300.

SMARTPASS:

Install according to instruction manual.