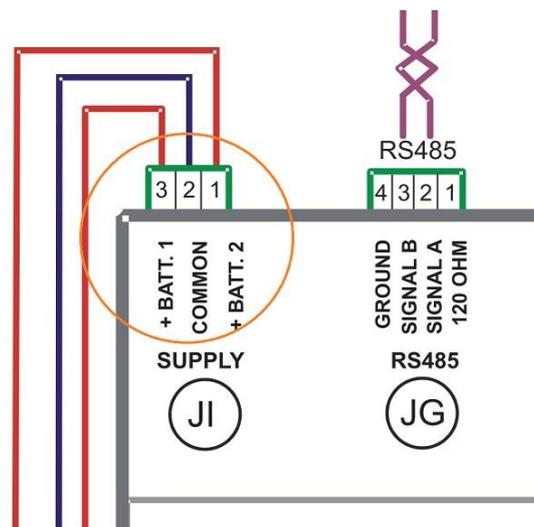# BE126 CONNECTION INSTRUCTIONS & BASIC SETUP

STEP 1: POWER SUPPLY

You are required to connect the power supply as follow. Battery #1 plus to JI3, Battery #2 plus to JI1, batteries common to JI2. See the picture.

Use 10Amps fuses to protect the cables. Be126 features internal thermal automatic fuses 1 amp.

You will get the display of Vbatt 1 and 2 as indicated below. The LED displays 'current 1&2' are disabled by the default setting. To enable the reading you have to connect the MCB MODBUS battery charges and setup the MODBUS nodes to 'ON' (see section 9.0 of the manual).
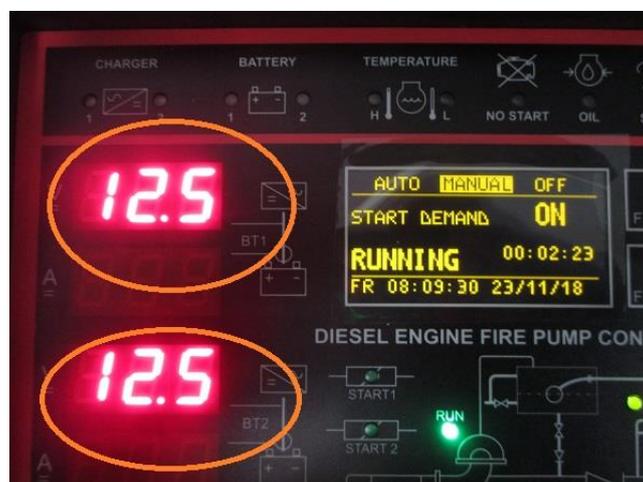
STEP 2: SETUP THE REAL TIME CLOCK.

As you turn the Be126 to manual mode, you may get a CLOCK ALARM warning.

Inside the Be126, a super capacitor keeps running the clock. When you disconnect the JI plug, or remove the batteries, the RTC will work for a few hours only (see section 5.0 of the manual).

After setting up the clock you can clear the alarm by pushing the OFF button.

STEP 3: OUTPUT CONNECTIONS.

You have to connect the outputs on removable connectors JB and JC. The outputs are static NPN. See drawing. Max current is 300mA. It is mandatory to use JC7 to supply the common plus.
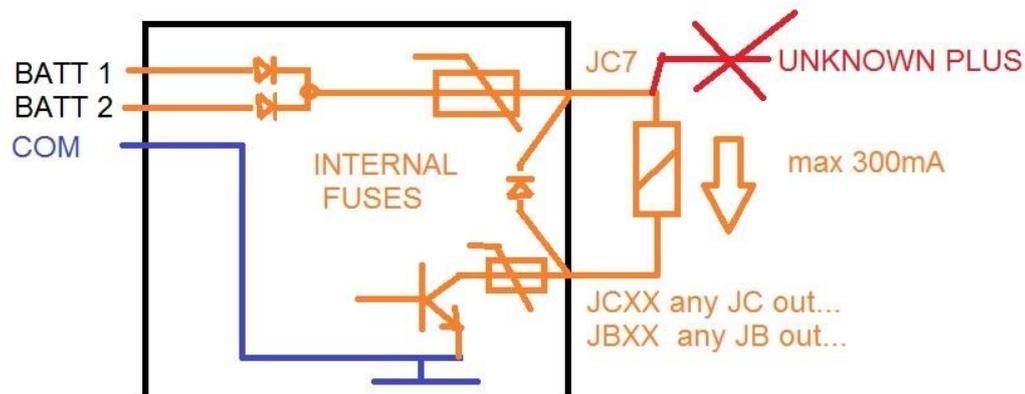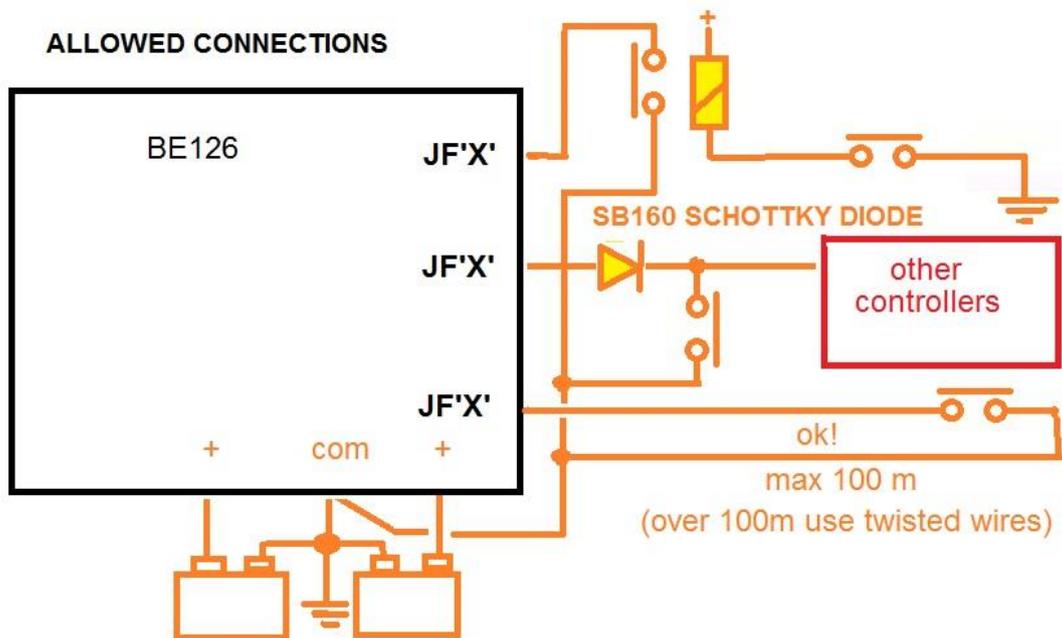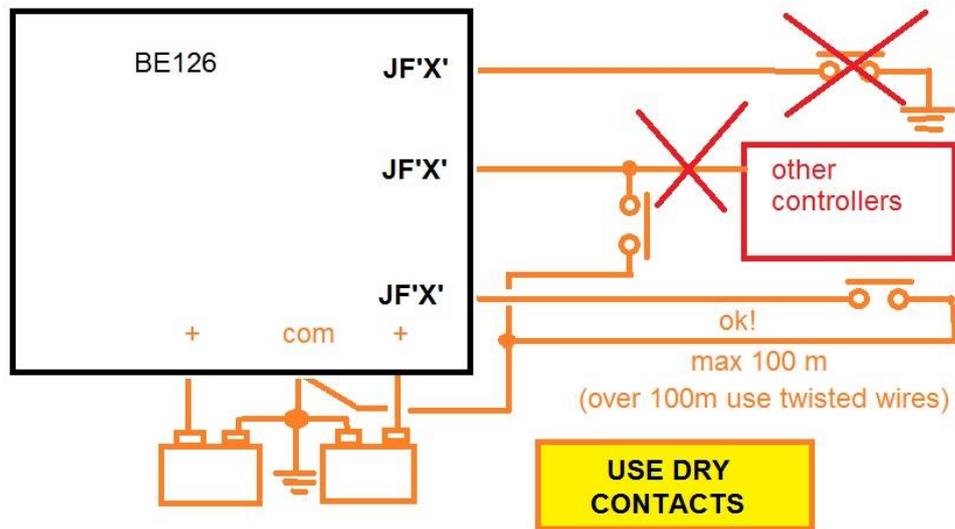

Do not supply an output with external source. Use only the terminal JC7.

Use 12V relay for 12V batteries. Use 24V relays for 24 batteries.

The Be126 features internal suppressing diodes for magnetic components (e.g. relays).

STEP 4: DIGITAL INPUT CONNECTIONS.

For best accuracy please follow the diagrams

USE DRY CONTACTS

USE TROUBLESHOOTING PROCEDURE TO TEST THE INPUTS AND OUTPUTS SEE SECTION 28-29-30-31

STEP 5: DIGITAL INPUT FIRE DETECTION

The Be126 triggers the start procedure when digital input JF4 (or JF7) is open. When you test the controller, connect these inputs to common by a wire or a switch. See how it looks like when there is 'NO FIRE' condition.
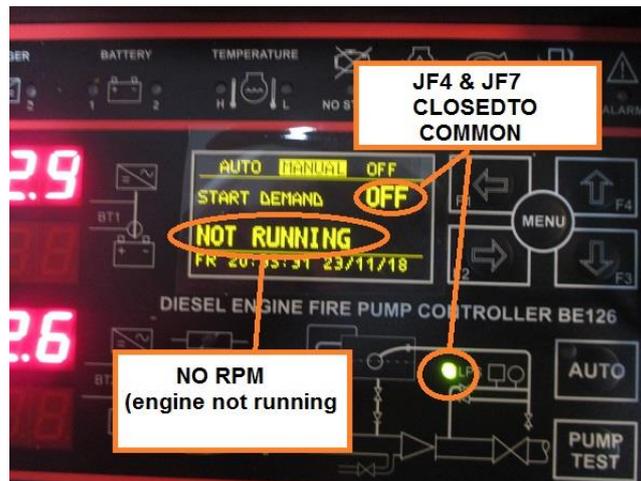
STEP 6: CRANK TERMINATION

Default setting is 700 rpm (see section 13.03). Do not use charger alternator to terminate the crank.

STEP 7: ENABLING NFPA20 MODE

Despite the fact that the firmware 3.21 (NFPA20) totally ignores the status of the terminal JF10, we recommend that you leave this terminal open.

STEP 8: PICKUP RATIO

To setup the pick-up see section 37.1. This is mandatory for detecting the crank termination. Default setting is '100'. Leaving default setting may cause wrong speed indication.

You can check the reading of the speed in troubleshooting page 31.1.

The display indicates frequency and calculated speed. We recommend that you use a dedicated pickup. Sharing the pick up of the speed regulator may cause malfunction to the speed regulator.