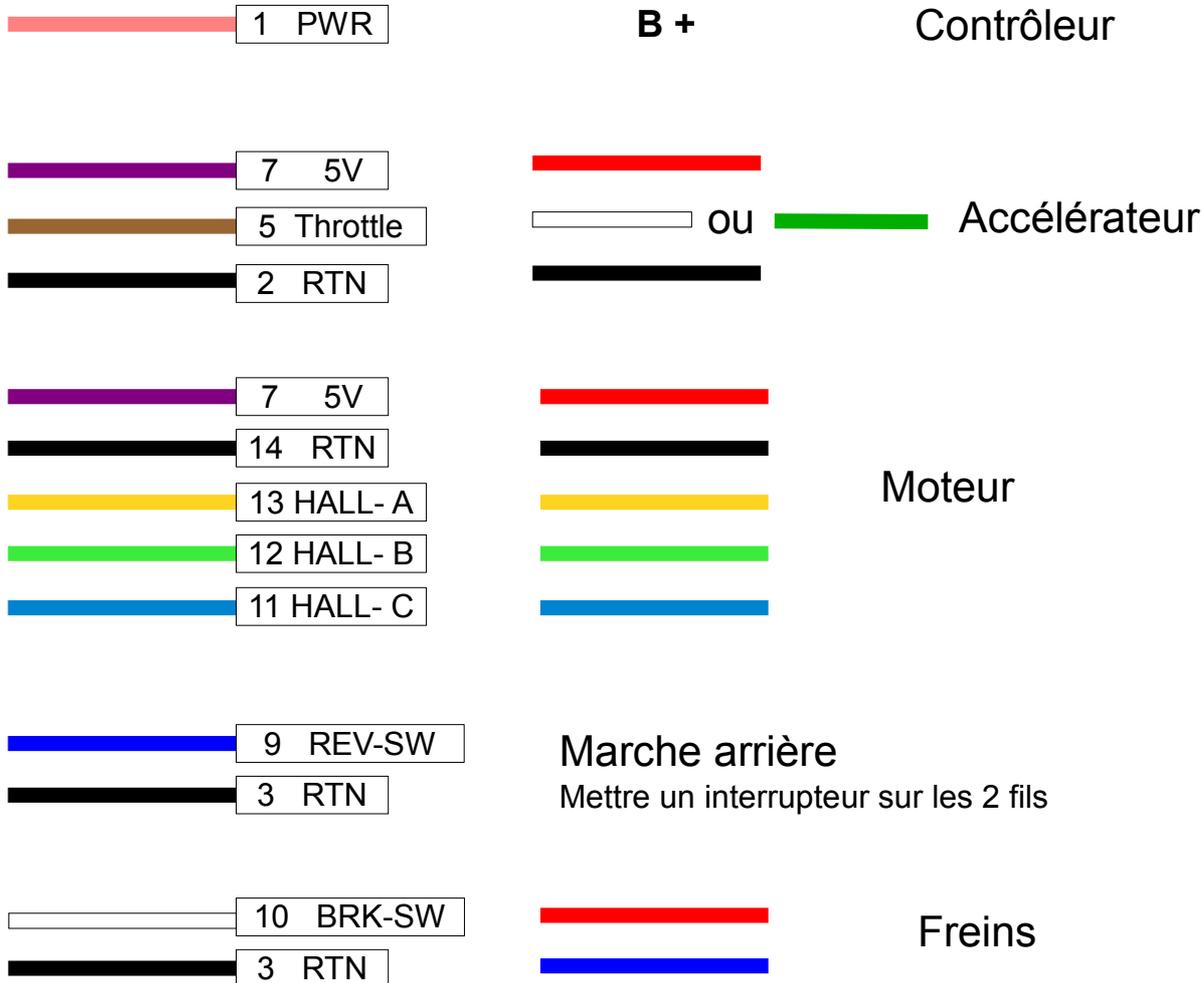


# Branchements des contrôleurs série KBL et KEB

Nous allons détailler dans cette fiche les connexions permettant d'avoir accès aux fonctions principales du contrôleurs :

## Connecteur J2



## Connexion des phases du moteur



## Batterie



# Paramétrage par défaut

Step 1 - Kelly KBL/KEB Series Controllers Configuration Program V3.3



## Kelly Controllers

<http://www.KellyController.com>




**Controller Information**

Model: KBL48201y    Serial Number: 11480805    SoftWare Version: 0402

**General Setting**

Forward Switch [1]     Enable     Disable

Foot Switch [2]     Enable     Disable

Throttle Sensor Type [3]   

Throttle effective starting    20%   

Throttle effective ending    80%   

Max Motor Current [4]    100%   

Max Battery Current [5]    100%   

**Description**

- If enabled, Throttle Switch will be considered as Forward Switch. The motor will be run CW if turn on Throttle Switch and turn off Reversing Switch; Conversely, it will run CCW: If both switches are on or off, it will be in neutral and Throttle Safety Switch invalid.
- Only if Forward Switch is off, Foot Switch can be used. If enabled, please turn on foot switch to activate throttle.
- Usually Hall Throttle valid signal range is about 1V-4V. The controller will report fault for <0.5V or 4. The max output current as percentage of controller current rating, i.e. A 400A rated controller will limit the max output to 200A if you choose 50% here.
- Controller will cut back motor current at high speed to limit battery current. Controller can output Max Motor Current at low speed. Note motor current can be much higher than battery current at low speed.

Help    Cancel    Previous    Next    Finish

Step 2 - Kelly KBL/KEB Series Controllers Configuration Program V3.3



## Kelly Controllers

<http://www.KellyController.com>




**General Setting**

Start-up Delay [1]   

Hall Sensor Type [2]   

Control Mode   

Under Voltage [3]    18V   

Over Voltage [4]    60V   

Throttle Up/Down Rate    3    Fast        Slow

Power On High Pedal Disable     Enable     Disable

Releasing Brake High Pedal Disable[6]     Enable     Disable

**Description**

- Set delay time to wait for stabilization of B+, mostly for main contactor debouncing.
- Select 60 degree or 120 degree according to your motor hall sensor type.
- Controller will cut back current at battery voltage lower than 1.1x the value, cut out at the value, and resume operation at 1.05x the value.
- Controller will cut back regen current at 0.95x the value, cut out regen if voltage reached the setting, and resume regen at 0.95x the value.
- If enabled, the controller will report fault and not operate if throttle got effective output at power up.
- If enabled, the controller will report fault and not operate if throttle got effective output when releasing the brake.

Help    Cancel    Previous    Next    Finish

Step 3 - Kelly KBL/KEB Series Controllers Configuration Program V3.3



## Kelly Controllers

<http://www.KellyController.com>




**General Setting**

Motor Top Speed [1]    100%   

Motor Poles[2]   

Half Speed In Reverse[3]     Enable     Disable

Boost Function[4]     Enable     Disable

Economy Function[5]     Enable     Disable

Half Current in Reverse[6]     Enable     Disable

Noise Reduction [7]     Enable     Disable

**Description**

- Slide the slider to change allowed top speed of your motor. Actually it's done by limiting motor voltage to the percentage of battery voltage.
- Motor poles configuration. When using CAN to get controller's parameter, please configure this parameter accurately.
- If enabled, the max reverse speed will be limited to half of the max forward speed if reverse switch closed.
- If enabled, the controller will output max power right after Brake signal > 4.2V. Or say you can wire a boost switch between Brake Input and 5V to activate it.
- If enabled, the max output current will be limited to half of normal condition if Brake signal > 4.2V. Or say you may wire a economy switch between Brake Input and 5V to activate it.
- If enabled, the max output current will be limited to half at reversing. Activated by reverse switch.
- If the motor starts with noises enable this funtion to reduce it, otherwise don't use.

Help    Cancel    Previous    Next    Finish

Step 4 - Kelly KBL/KEB Series Controllers Configuration Program V3.3



# Kelly Controllers

<http://www.KellyController.com>

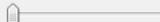


Configuration Wizard

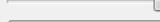
**Regeneration Setting**

Regeneration [1]  Enable  Disable

Brake Switch [2]  Enable  Disable

Releasing Throttle Starts Regen [3] Disable 

Regen Current by Brake Switch On 20% 

Max Regen Current [4] 100% 

Brake Sensor Type [5]

Brake Sensor Starting Point 20% 

Brake Sensor Ending Point 80% 

**Description**

1. Regen is to recover mechanical energy, and charge back to battery. It has braking effect. Battery and secure current path are required during regen. Braker/Contactor on battery line has to be closed.
2. If enable, turn off throttle and turn on brake switch will start regen.
3. If enable, regen starts just after throttle released. You may disable it by dragging the slider to the leftmost position. Brake switch or brake sensor isn't required for the mode. The mode is only available for firmware version 0209 or later.
4. Max regen current with max signal from brake sensor.
5. It's to vary regen on time. Please choose "Not Used" if analog brake sensor isn't used. You have to turn on brake switch to start the regen, then vary the regen with the signal.

Brake Sensor Type is the same as Throttle Sensor Type.

Help Cancel Previous **Next** Finish