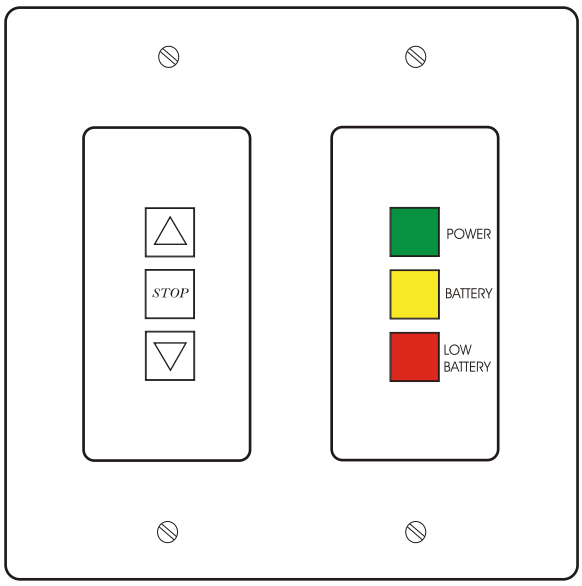
BBS_V04

BATTERY BACKUP SYSTEM



NEVER BE WITHOUT POWER! YOUR MOTORIZED SYSTEM WILL OPERATE FOR UP TO THREE DAYS DURING A POWER OUTAGE.

- THREE INDICATOR LIGHTS KEEP YOU INFORMED ON POWER CONDITIONS.
- SIMPLE, LOW-VOLTAGE BUS LINE ALLOWS BBS* CONTROLS TO BE CONNECTED TO STANDARD SWITCHES FOR GROUP CONTROL
- BUILT IN CONNECTION FOR EXTERNAL SWITCHES ALLOWS OTHER DEVICES SUCH AS FIRE ALARMS, BURGLAR ALARMS, AND HOME AUTOMATION CONTROLS WITH NORMALLY OPEN, DRY CONTACTS TO DIRECTLY INTERFACE.
- YELLOW INDICATOR LIGHT ALLOWS THE CONTROL TO BE LOCATED IN A DARK ROOM EVEN IF THE POWER IS OUT.
- ALLOWS MULTIPLE SWITCHES TO BE CONNECTED TO THE INDIVIDUAL OPERATOR.
- SELF RESETTING OVER CURRENT PROTECTION AND INTELLIGENT MICROPROCESSOR SELF TESTING, PROTECT AGAINST MISWIRING AND PROVIDE FAST EASY TROUBLE SHOOTING.

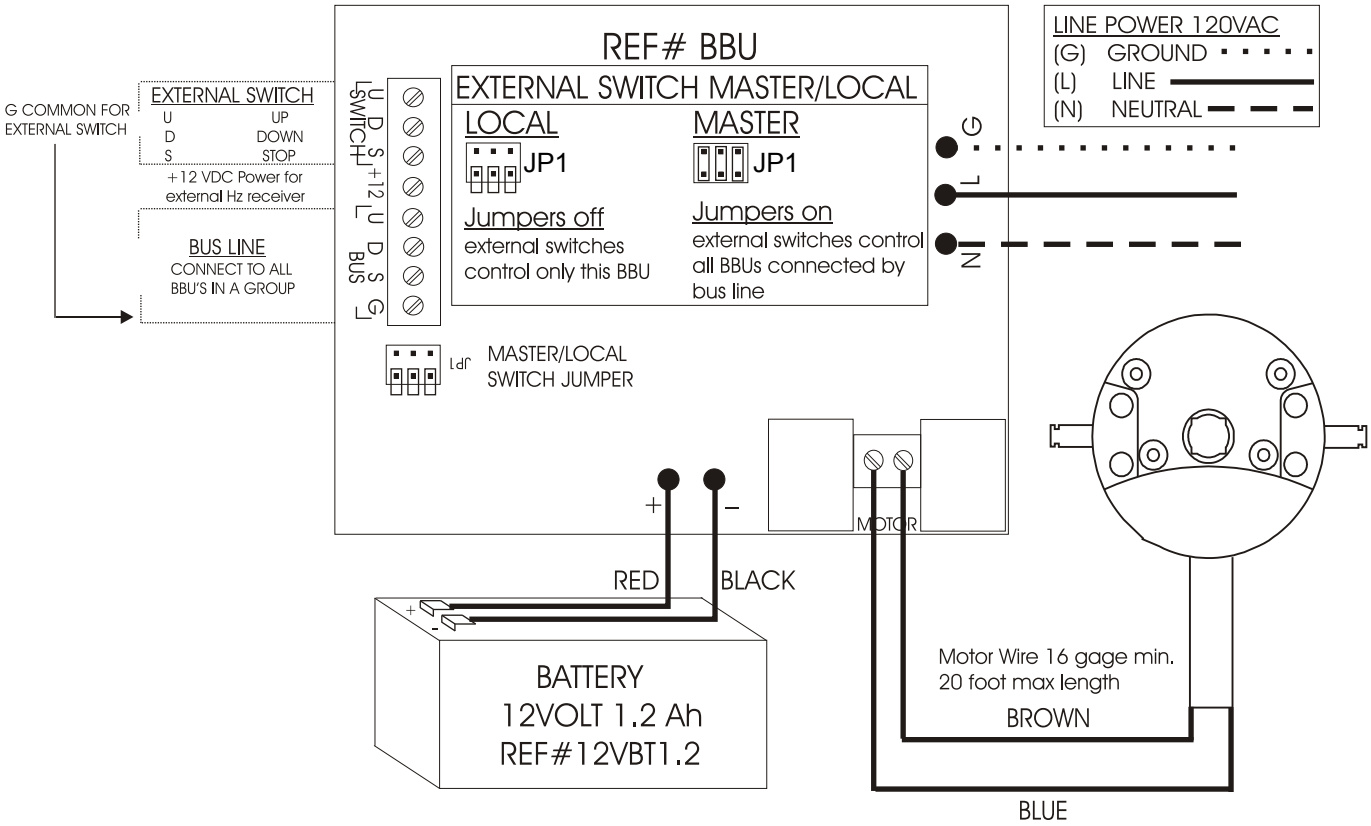
INSTALLATION MANUAL

** Battery Backup (BBU) Battery Backup System (BBS)*

simu
Committed to you

WIRING FOR BBU* V04 AND LATER.

FOR EARLIER VERSIONS PLEASE CONTACT SIMU U.S.



TECHNICAL DATA:

Input Voltage = 120V AC 50/60Hz
Input Current = 50 mA
Motor Output Voltage = 12 Volts Nominal
Motor Output Current = 5 Amps Max. Polyfused
Battery Output = Voltage/Current Regulated Charging
for 12 Volt 1.2 Ah
Sealed Lead Acid Battery
Standby Battery Current = 6.5 mA
Shut Down Battery Current = 0.9 mA
Size = 3.5" X 2.5" (Fits in deep 2 gang plastic box supplied)
External Switching = N.O., Momentary Dry Contacts Rated for 12 Volts
Bus Line = 12V DC

BBS PART LIST:

BBU* = Battery Backup Control
BBU* BOX = Plastic, Two Gang Deep Switch Box
DES2G.W= Two Gang, White Decora Cover Plate
12V BT1.2 = 12 Volt 1.2 Amp Hour Battery
JUMPER = Jumpers for master selection

INSTALLATION INSTRUCTIONS: All wiring should be done with power turned off for installation by a qualified electrician in accordance with national and local electrical codes.

1) Connect the bus line of any BBU's* that will be controlled as a group together.
2) On any BBU(s)* that will have a Master Switch connected to them, place the Master switch jumpers (JP1) on, and wire the group switch(es) to the external switch location on this/these BBU(s)*. A group may have more that one master.
3) Connect any local external switches desired to the external switch locations on the BBU(s)* and remove the jumpers on JP1.
4) Connect the 12V DC motor to the motor terminal as shown (If the motor runs backwards, reverse the brown and blue motor wires).
5) Connect the battery to the BBU*. Make sure the polarity is correct (Red Wire: +, Black Wire: –)
NOTE: IT IS IMPORTANT TO CONNECT THE BBU* TO THE BATTERY AND CONFIRM THAT THE YELLOW LIGHT IS BLINKING BEFORE CONNECTING THE BBU* TO LINE POWER IN.
6) Connect the BBU* to the line power.

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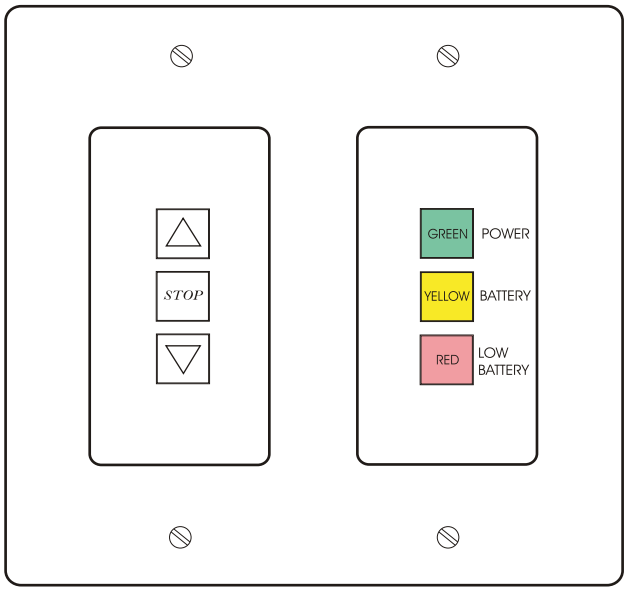
INSTALLATION



- Multiple normally open, momentary switches can be connected in parallel on the external switch location of any BBU*.
- All external switches connected to a given BBU* are either master or local switches as selected by the jumpers (JP1). **It is not possible** to have external local and master switches connected on the same BBU*.
- Multiple BBU*'s in a group can have their external switches selected as masters for the group
- External switches on a BBU* are set as masters if all the jumpers (JP1) on that BBU* are on.
- External switches on a BBU* are set as local if all the jumpers (JP1) on that BBU* are off.
- Ali jumpers (JP1) on a given BBU* must be set the same, all on or all off.
- The switches on the face plate are always local switches.
- The cable from the BBU* to the motor should be a maximum of 20 feet long and should be 16 gage or larger.
- The Bus Lines and External Switch Lines are 12 VDC control lines and should be kept away from EMI sources such as: power lines, transformers, fluorescent lights, ect...
- External switches can be any normally open, momentary, dry contact suitable for low voltage switching.

1- When the unit is stopped, pressing the UP △ or DOWN ▽ will make the motor run in the selected direction for one minute unless another command is given or the motor stops at its limit.

2- When the motor is running, pressing the STOP ☐ or pressing and releasing the other direction will stop the motor.

3- If an external switch is connected to the unit and the jumpers (JP1) are off, the external switch will control only the unit it is connected to.

4- If an external switch is connected to the unit and the jumpers (JP1) are on, the external switch connected to that BBU* will act as a master switch for all BBUs* connected to its bus line.

5- If the green light « ■ POWER » is on, the unit has line power to it and is producing a good charge voltage.

6- If the yellow light « ■ BATTERY » is blinking, the line power is off or disconnected and the unit is running on battery power.

7- If the red light « ■ LOW BATTERY » is blinking, the battery power is low and the motor should be run to the position it is desired to be left in until line power is on and the battery has recharged (about 24 hours).

8- If no lights are on, the unit has gone into sleep mode to keep the battery from critically discharging. If the power is on for over 24 hours and there still are no lights the battery must be replaced.

9- If the red light « ■ LOW BATTERY » blinks and then the green and yellow « ■ POWER » « ■ BATTERY » blink together, the battery is connected backwards or is dead and must be replaced.

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TESTING

To test the battery, let the unit charge with a green light for 24 hours. Use the face plate switches to run the unit up and down several times.

The green light should stay on (Note: the red light may turn on or all lights may turn off for a second when the motor starts or stops. This is normal).

If the red light stays is blinking or all lights stay off for more than 3 seconds (ie., the green light does not come back on while the motor is running), the battery needs to be replaced. If the unit seems to be running slower than normal during testing, the battery should be replaced.

The battery should be replaced every 3 years.

TROUBLE SHOOTING:

1- If the red light blinks and then the yellow and green light blink, check the battery for a loose connection and check that the battery is connected correctly regarding polarity (Red Wire to +, Black Wire to -). If the connections are OK, the battery must be replaced.

2- If the red or yellow lights are blinking and power is on, let the unit sit for 5 minutes. If the green light does not come on, confirm the line voltage power to the unit is on and is properly connected to the unit. If all the power connection are correct, try replacing the battery.

3- If the green light is on, but the unit buzzes and/or all lights go out when you try to run the unit the battery is not connected or must be replaced.

4- If the green light is on and stays on when you try to run the unit but the motor does nothing, check the motor connections to the BBU*, the motor limit settings, and any cables going to the motor for cuts or breaks.

5- If no lights are on, but the battery is connected and power is connected and on, confirm the battery is connected with the correct polarity (Red wire to +, Black Wire to -) . If the battery is connected correctly, replace the battery.

6- If the green light is on but pressing and holding the up or down switch causes a clicking and the green and yellow lights to alternate, there is a short on the motor terminal. Check the motor terminal for a short due to a loose wire. Check the cable leading to the motor for cuts or shorts caused by foreign objects such as nails. Test or replace the motor.

7- If the motor runs in the wrong direction from the face plate switch, reverse the motor blue and brown wires.

8- If the motor(s) run the wrong direction from an external switch (local or master), check the face plate switch as above (5). If the motor runs in the correct direction from the face plate switch, then reverse the wires going to the U (up) and D (down) on the external switch terminal.

9- If an external master switch only activates the BBU* it is connected to, make sure the jumpers on the master/local switch selector (JP1) are on, and check the connections at the bus terminal block.

10- If an external local switch activates other BBU's* in the group, remove the jumpers on the master/local switch selector (JP1).

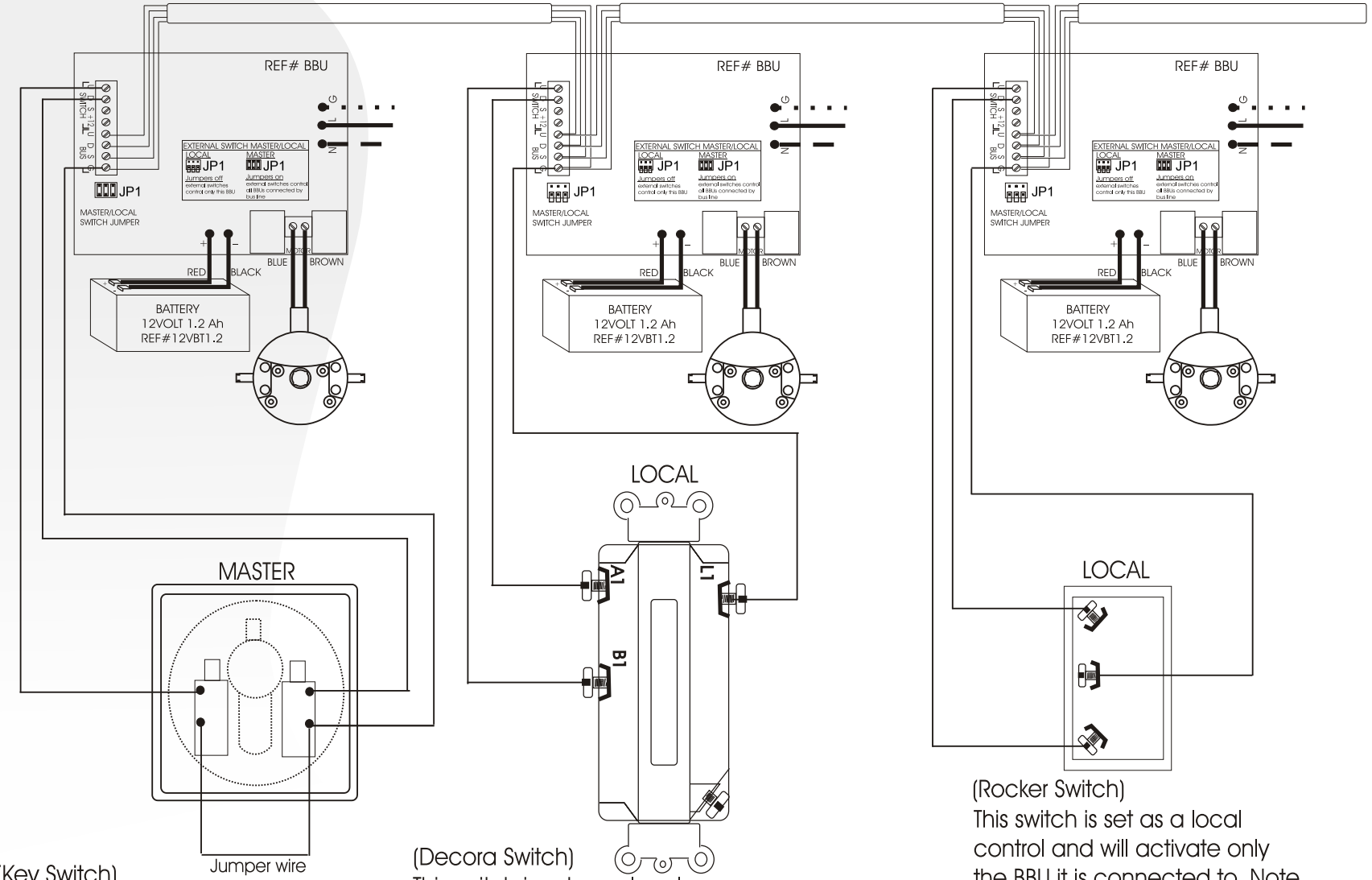
** Battery Backup (BBU) Battery Backup System (BBS)*

BBU* GROUP WITH EXTERNAL SWITCHES

ALL SWITCHES MUST BE MOMENTARY

4 WIRE BUS LINE 20 GAGE MIN.

TO OTHER BBUs IN GROUP →



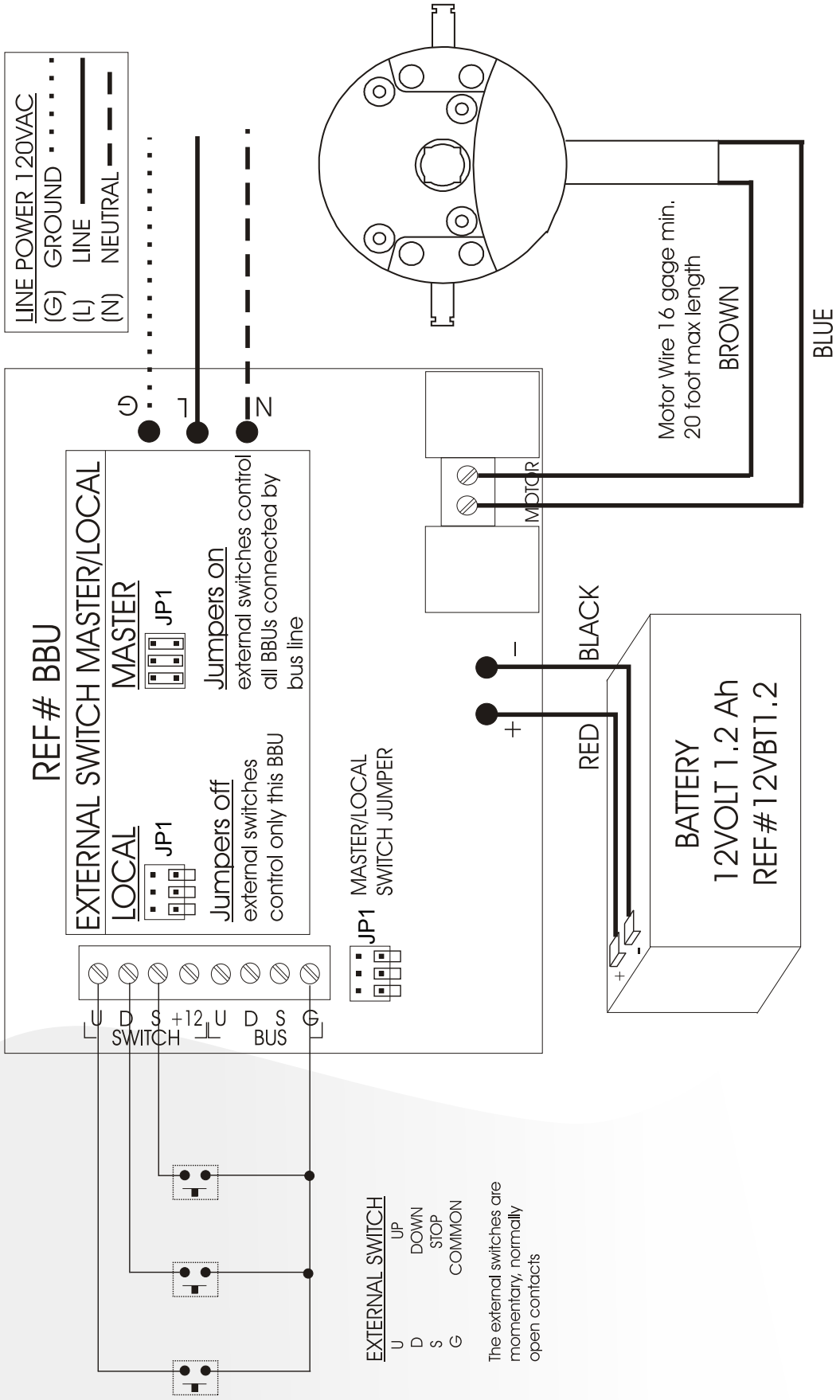
(Key Switch)
This switch is set as a master for the group. Note the jumpers (JP1) on the BBU it is connected to.

(Decora Switch)
This switch is set as a local control and will activate only the BBU it is connected to. Note the jumpers (JP1) are not connected

(Rocker Switch)
This switch is set as a local control and will activate only the BBU it is connected to. Note the jumpers (JP1) are not connected

BBS

BATTERY BACKUP SYSTEM CONNECTION TO EXTERNAL DRY CONTACTS



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ASSISTANCE

For further assistance, call SIMU U.S. 800-822-SIMU(7468)

CONTACT

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