



# **F-BBU BATTERY BACK-UP UNIT**

## **INSTRUCTION MANUAL**

**UL325-2010 Compliant**

# READ ALL INSTRUCTION FIRST

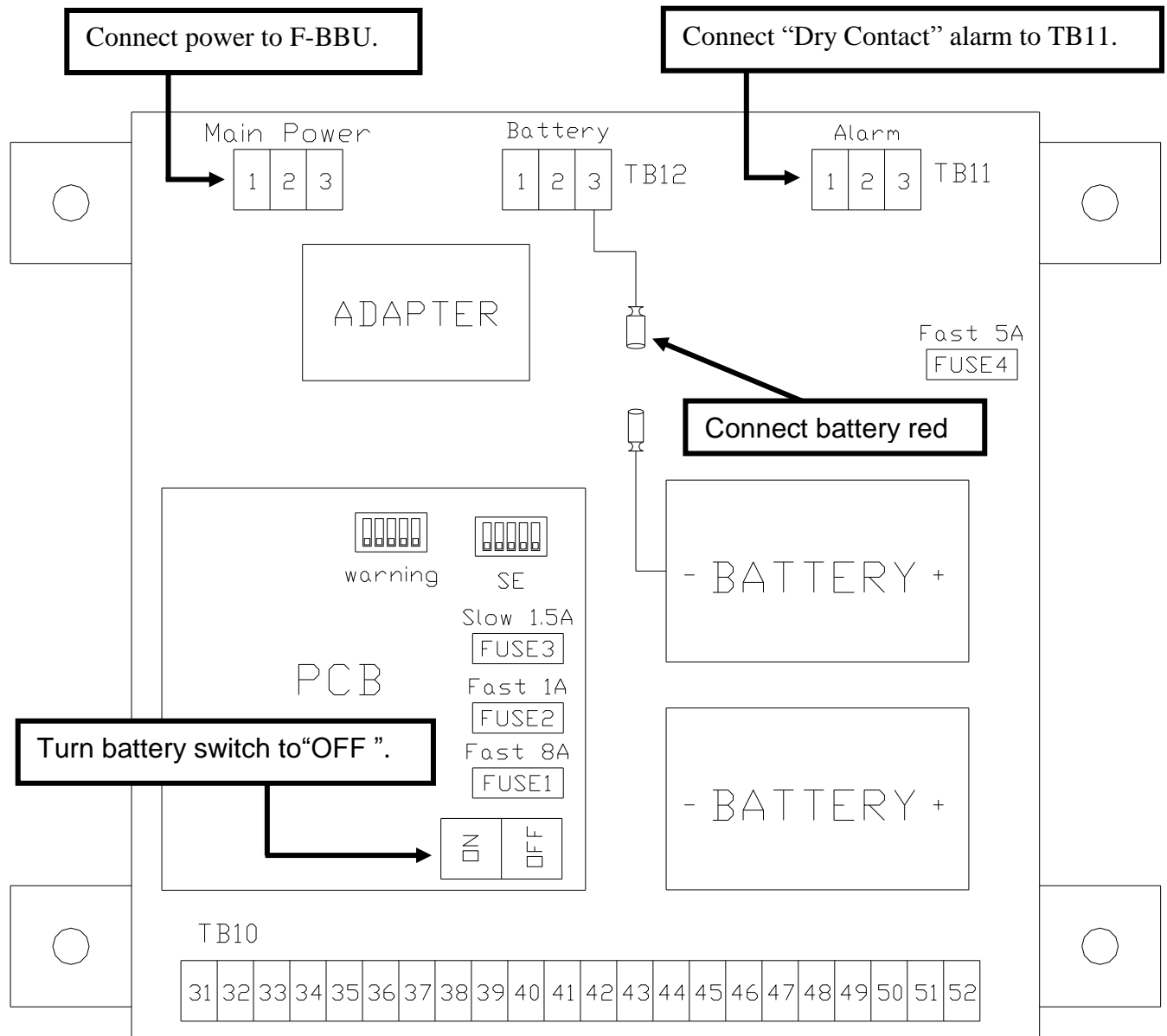
## Instruction for F-BBU

### **Warning:**

1. This F-BBU battery backup is designed for “UL325-2010” wiring.
2. If operator is UL325-2010 version, see drawing F-BBU-07A4.
3. If operator is Wireless Edge version, see drawing F-BBU-07A1.
4. If operator is Updated '07 version, **DO NOT** connect TB10 (41). See drawing F-BBU-07A2.
5. If the operator is the older version, **DO NOT** connect TB10 (41), TB10 (42) & TB10 (43). See drawing F-BBU-07A3.
6. If operator wiring needs to be changed to UL325-2010 version, please contact manufacturer for details.

### **Warning:** Disconnect power at fuse box before proceeding with any wiring.

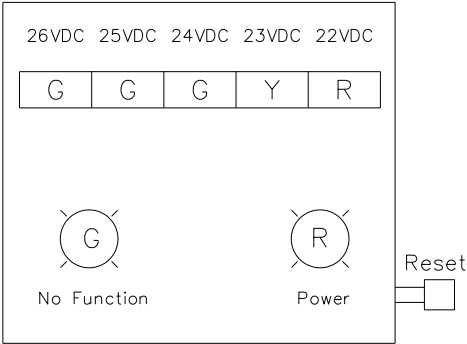
1. Lower door to closed position.
2. Disconnect power to the operator.
3. Remove alarm connection TB5 (11) & (12).
4. Remove operator jumper TB5 (7) & (8).
5. Jump operator TB5 (13) & (14).
6. Jump operator TB5 (20) & (21).
7. Connect F-BBU unit to the operator (see drawing F-BBU-07A4, F-BBU-07A1, F-BBU-07A2 & F-BBU-07A3).
8. Turn battery switch to “ OFF ”.
9. Connect “Dry Contact” alarm to TB11.
10. Connect battery red sockets.
11. Connect power to F-BBU.
12. Connect power to the operator.
13. Turn battery switch to “ ON ”.



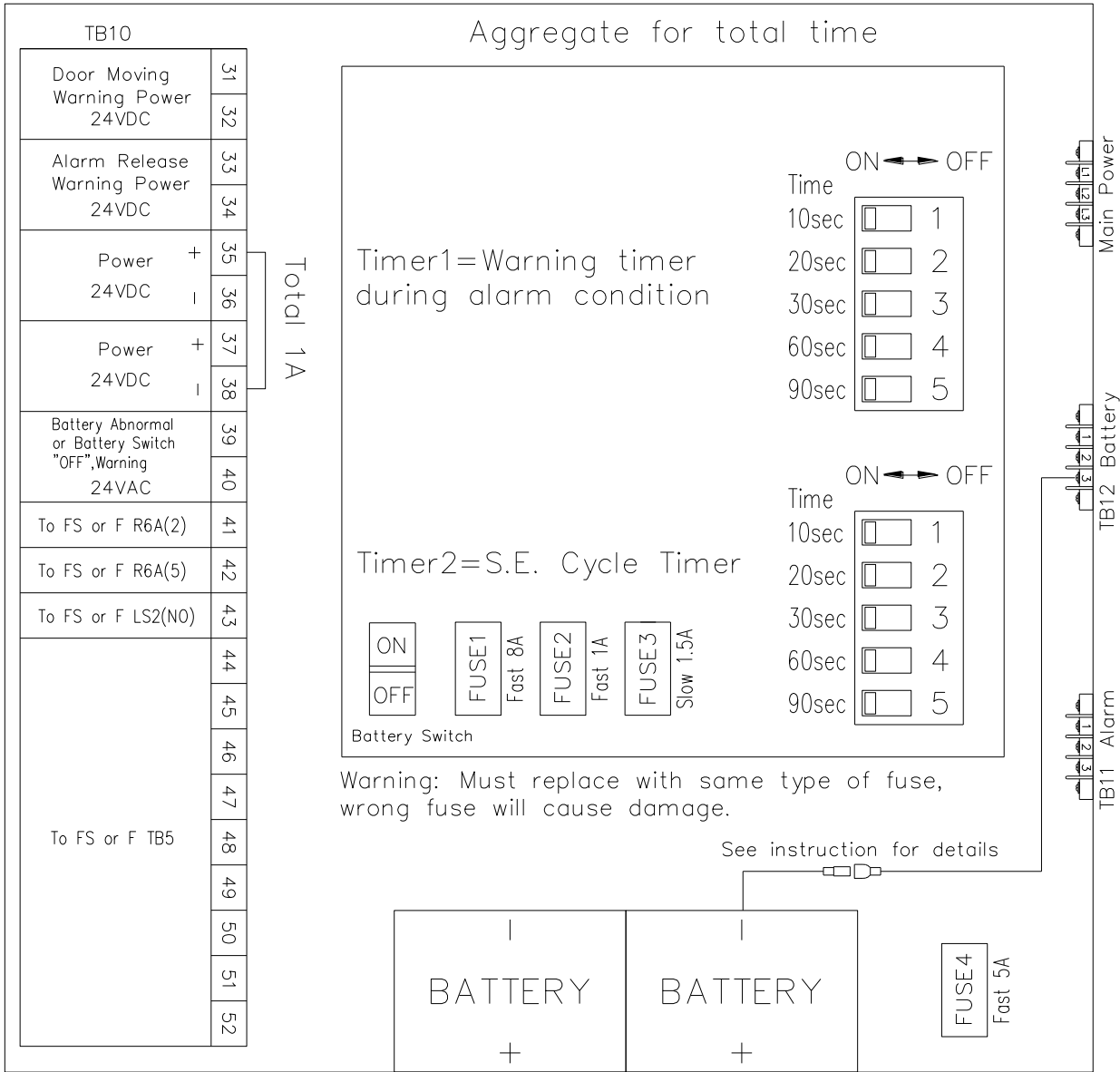
**Warning:** Before replacing fuse or battery, turn off power to F-BBU and turn battery switch to "OFF ". Must replace with same fuse, use wrong fuse will cause the relative component damage.

F-BBU-07

Front Panel Display



- Note:
1. Red light will go off when power drops below 20VDC.
  2. When red light goes off press "RESET" button or replace battery .



Warning: Must replace with same type of fuse, wrong fuse will cause damage.

See instruction for details

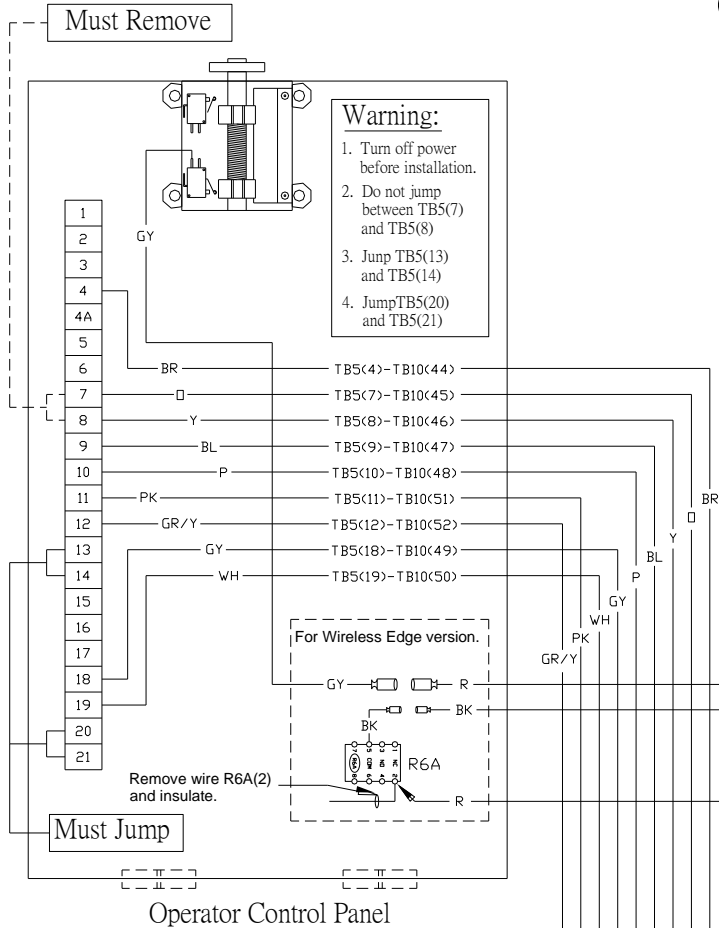
2008/10/27

Warning: Turn off power before installation

Instruction for Battery Back Up Module, Model F-BBU

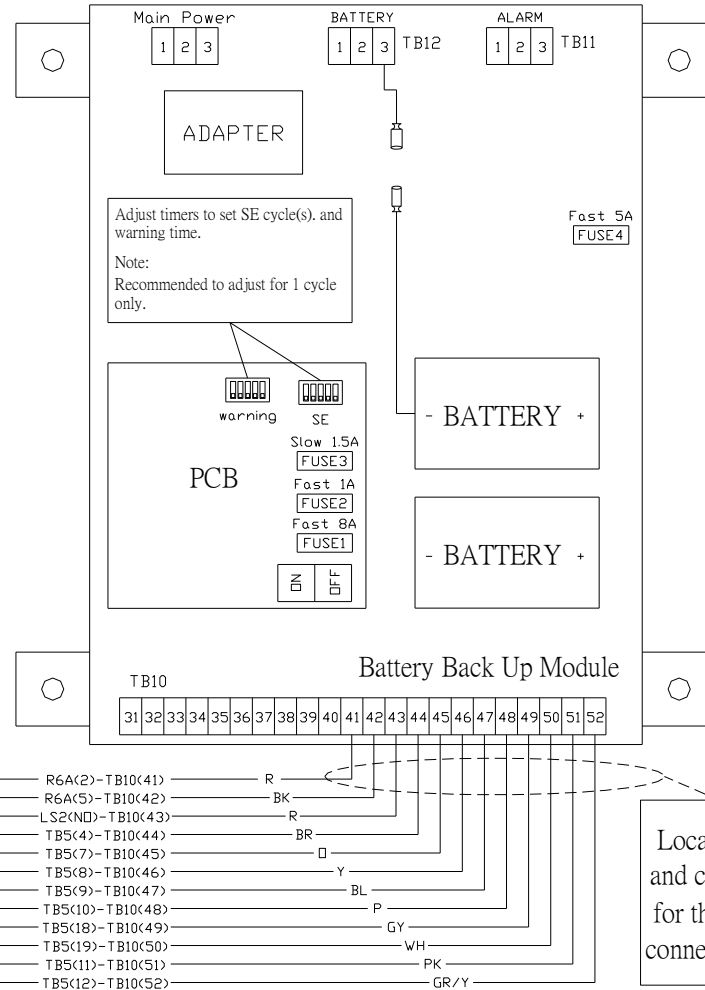
(For FS Series "UL325-2010" version)

F-BBU-07A4



- TB10(31)&(32):Warning Power (24VDC)
- TB10(33)&(34):Alarm Warning Power (24VDC)
- TB10(35)&(36):Power (24VDC) > Total 1A
- TB10(37)&(38):Power (24VDC)
- TB10(39)&(40):Battery Abnormal or Battery Switch "OFF",Warning (24VAC)
- TB11(1)&(3):Dry Contact (Alarm)

Warning: Use wrong fuse will cause damage.



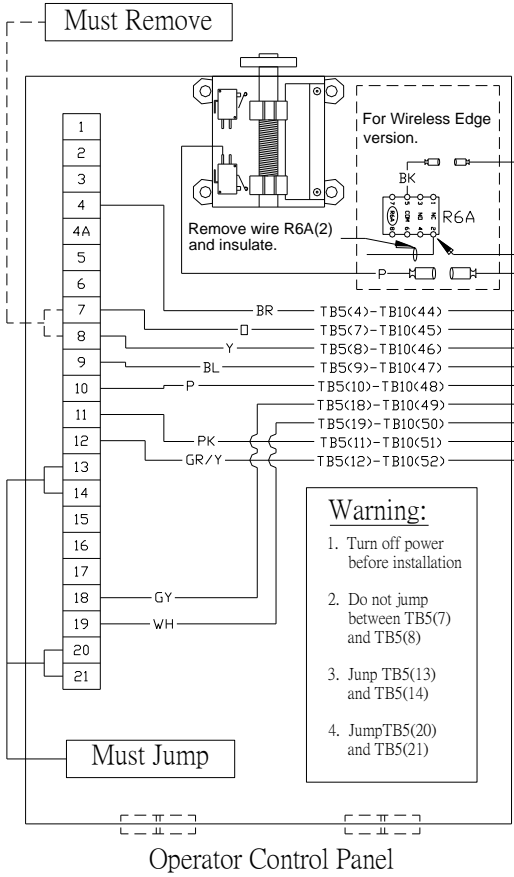
2011.06.28

Instruction for Battery Back Up Module, Model F-BBU  
 (For FS and F Series "Wireless Edge" version)

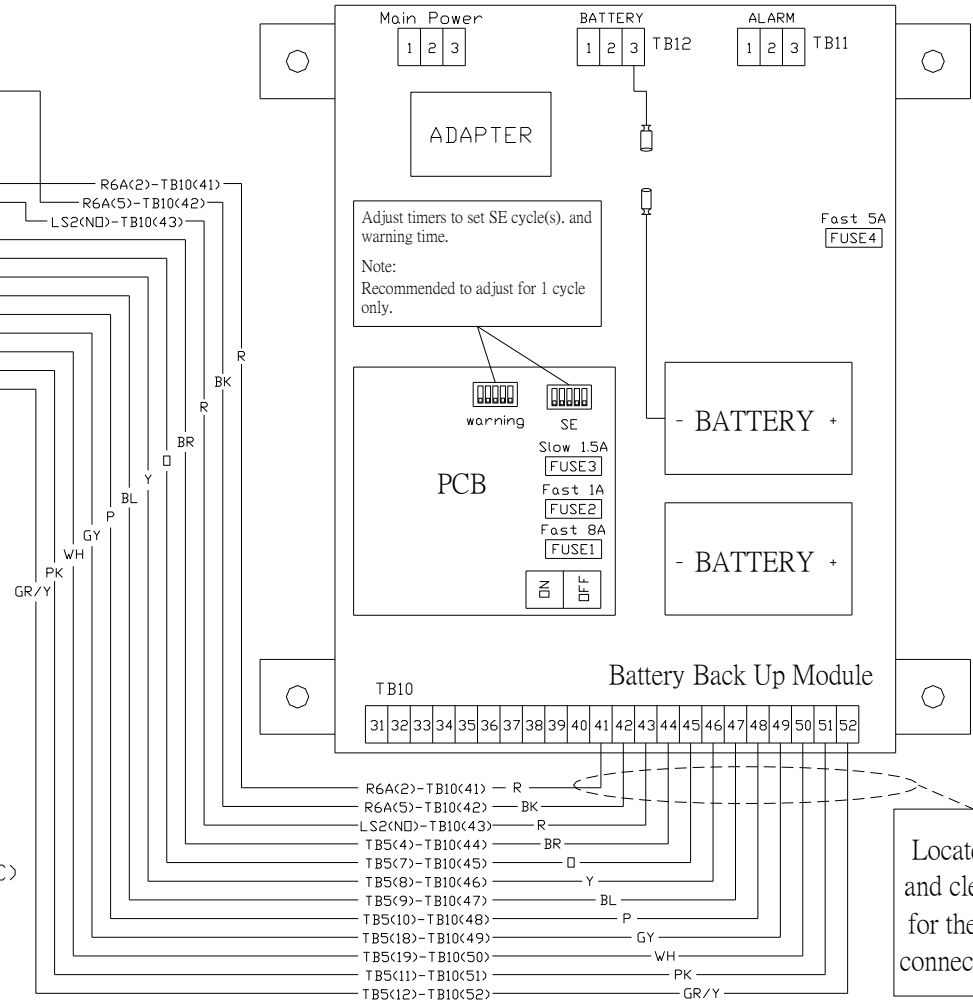
F-BBU-07A1

**Warning: Turn off power before installation**

**Warning: Use wrong fuse will cause damage.**



TB10(31)&(32):Warning Power (24VDC)  
 TB10(33)&(34):Alarm Warning Power (24VDC)  
 TB10(35)&(36):Power (24VDC) > Total 1A  
 TB10(37)&(38):Power (24VDC)  
 TB10(39)&(40):Battery Abnormal or Battery Switch "OFF",Warning (24VAC)  
 TB11(1)&(3):Dry Contact (Alarm)



Locate a clear and clean place for the conduit connection.

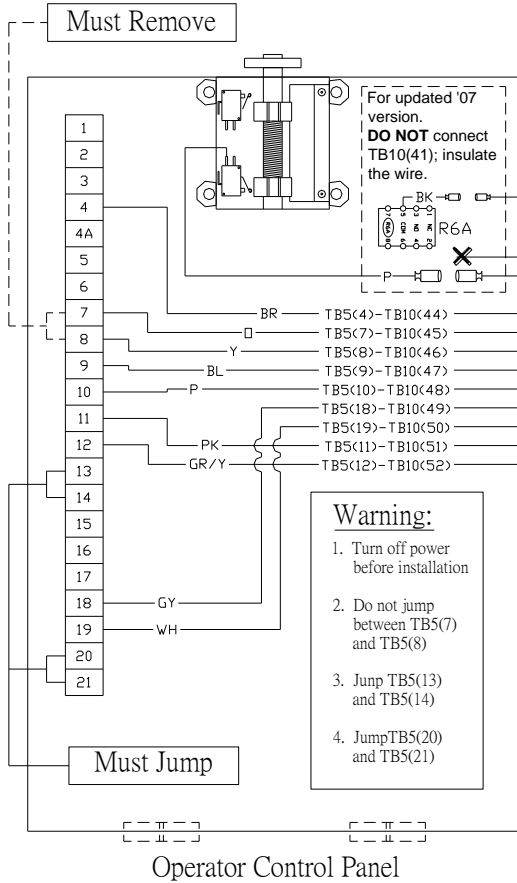
2008.10.27

Instruction for Battery Back Up Module, Model F-BBU  
 (For FS and F Series "Updated '07" version)

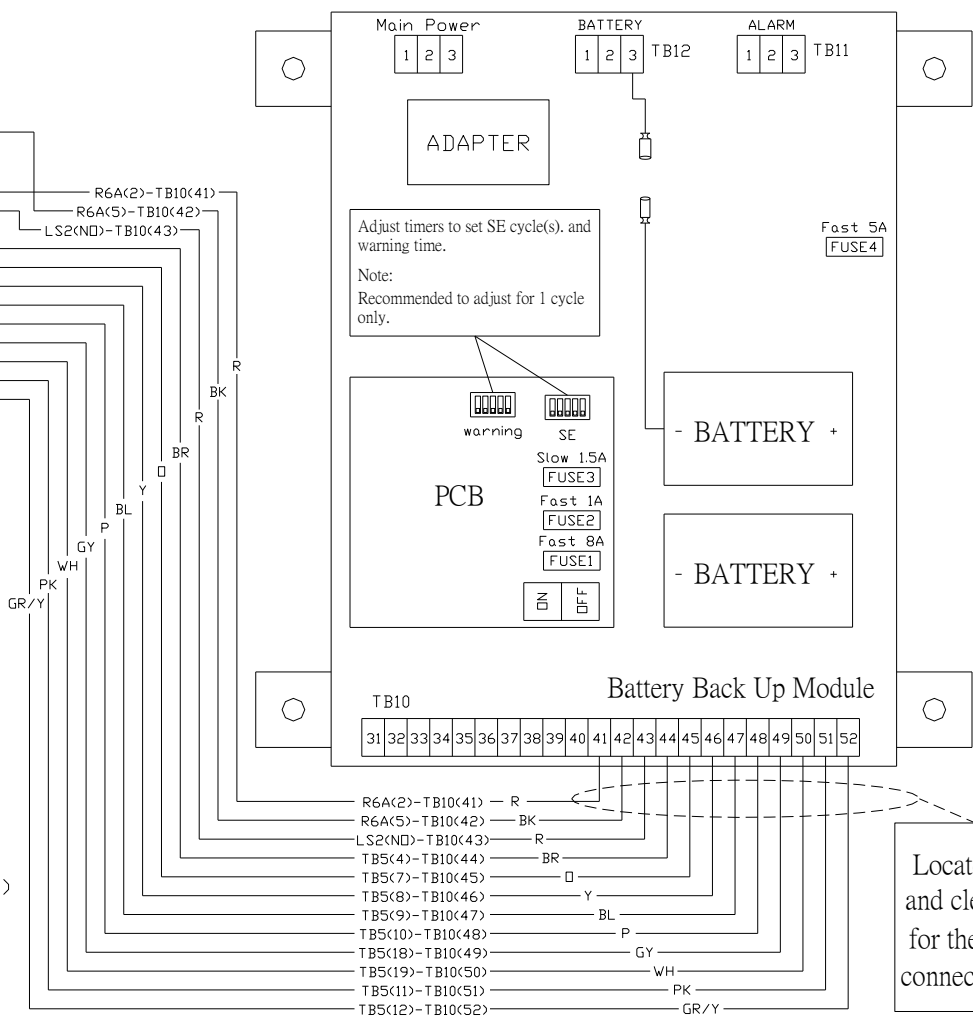
F-BBU-07A2

**Warning: Turn off power before installation**

**Warning: Use wrong fuse will cause damage.**



- TB10(31)&(32):Warning Power (24VDC)
- TB10(33)&(34):Alarm Warning Power (24VDC)
- TB10(35)&(36):Power (24VDC) > Total 1A
- TB10(37)&(38):Power (24VDC)
- TB10(39)&(40):Battery Abnormal or Battery Switch "OFF",Warning (24VAC)
- TB11(1)&(3):Dry Contact (Alarm)



Locate a clear and clean place for the conduit connection.

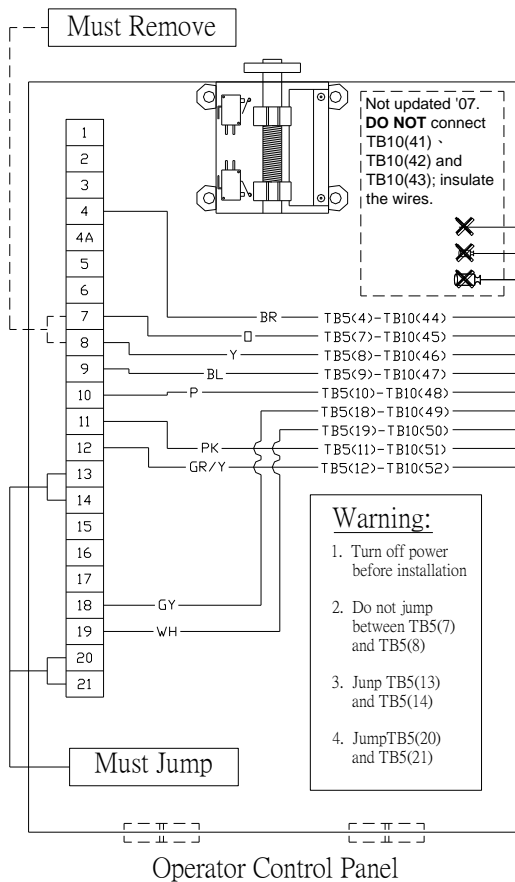
2008.10.27

Instruction for Battery Back Up Module, Model F-BBU  
 (For FS and F Series Older Operators)

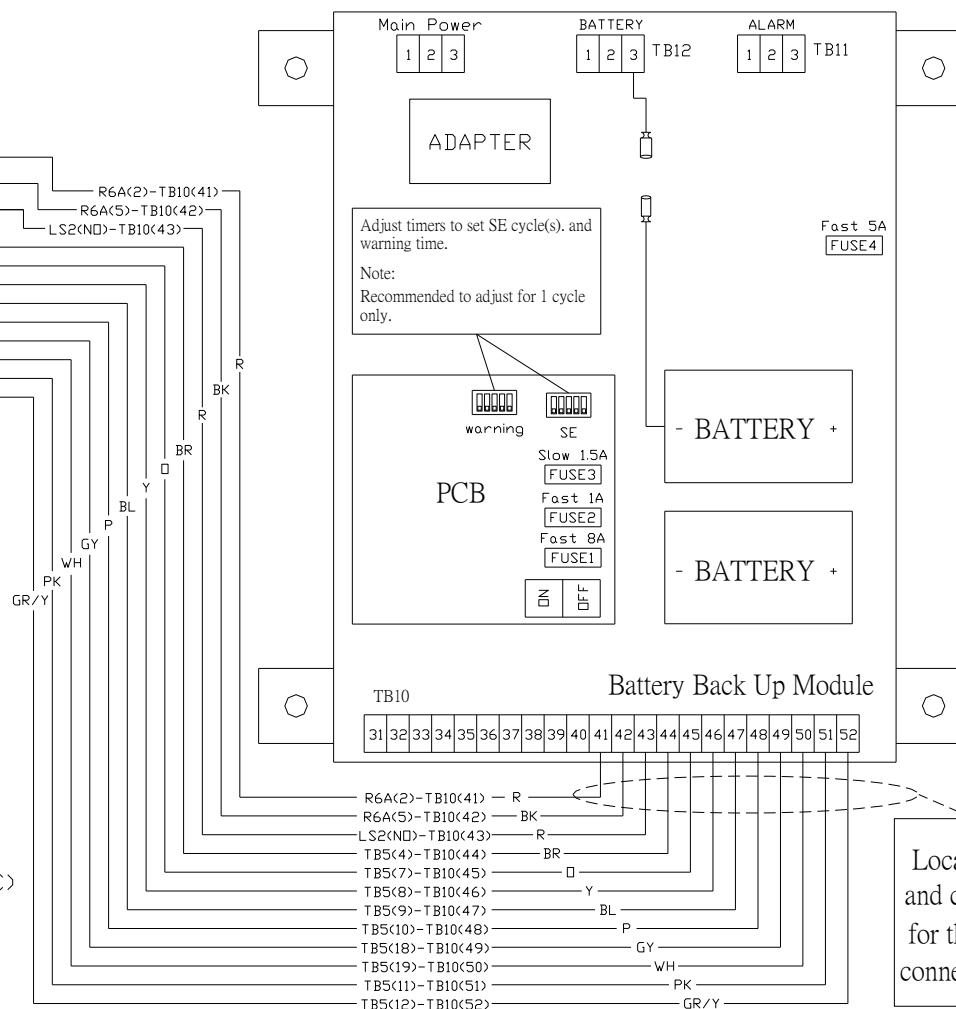
F-BBU-07A3

**Warning: Turn off power before installation**

**Warning: Use wrong fuse will cause damage.**



TB10(31)&(32):Warning Power (24VDC)  
 TB10(33)&(34):Alarm Warning Power (24VDC)  
 TB10(35)&(36):Power (24VDC) > Total 1A  
 TB10(37)&(38):Power (24VDC) > Total 1A  
 TB10(39)&(40):Battery Abnormal or  
 Battery Switch "OFF",Warning (24VAC)  
 TB11(1)&(3):Dry Contact (Alarm)

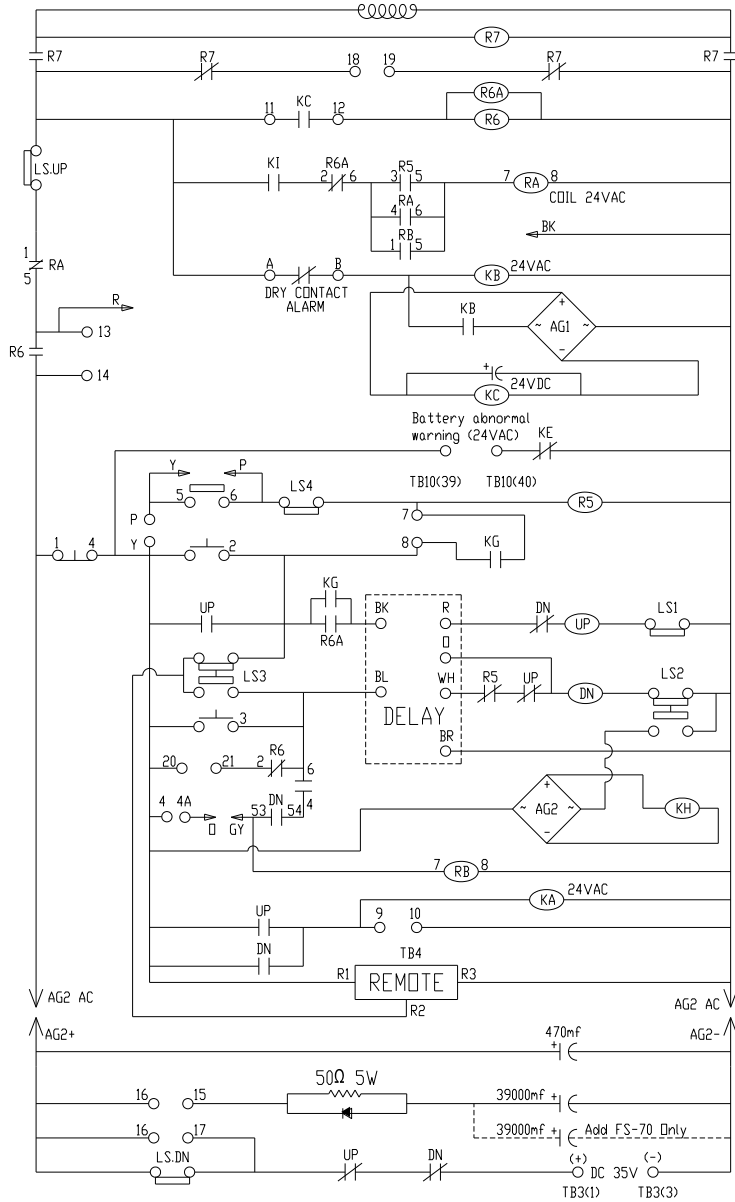


Locate a clear and clean place for the conduit connection.

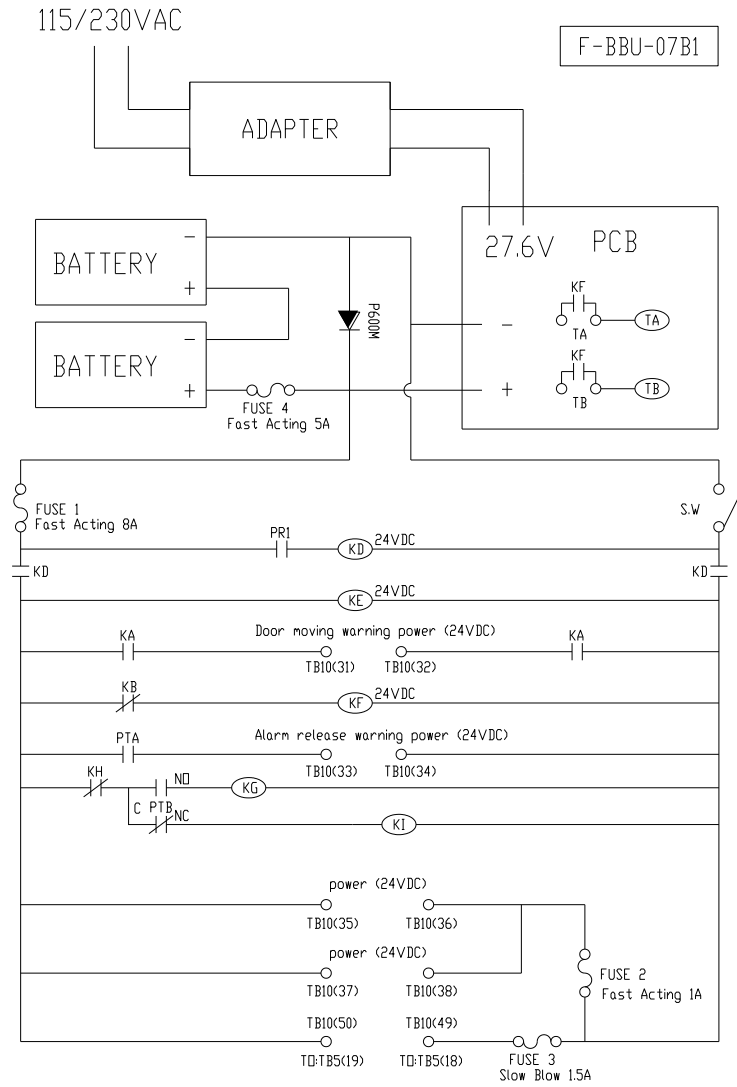
2008.10.27



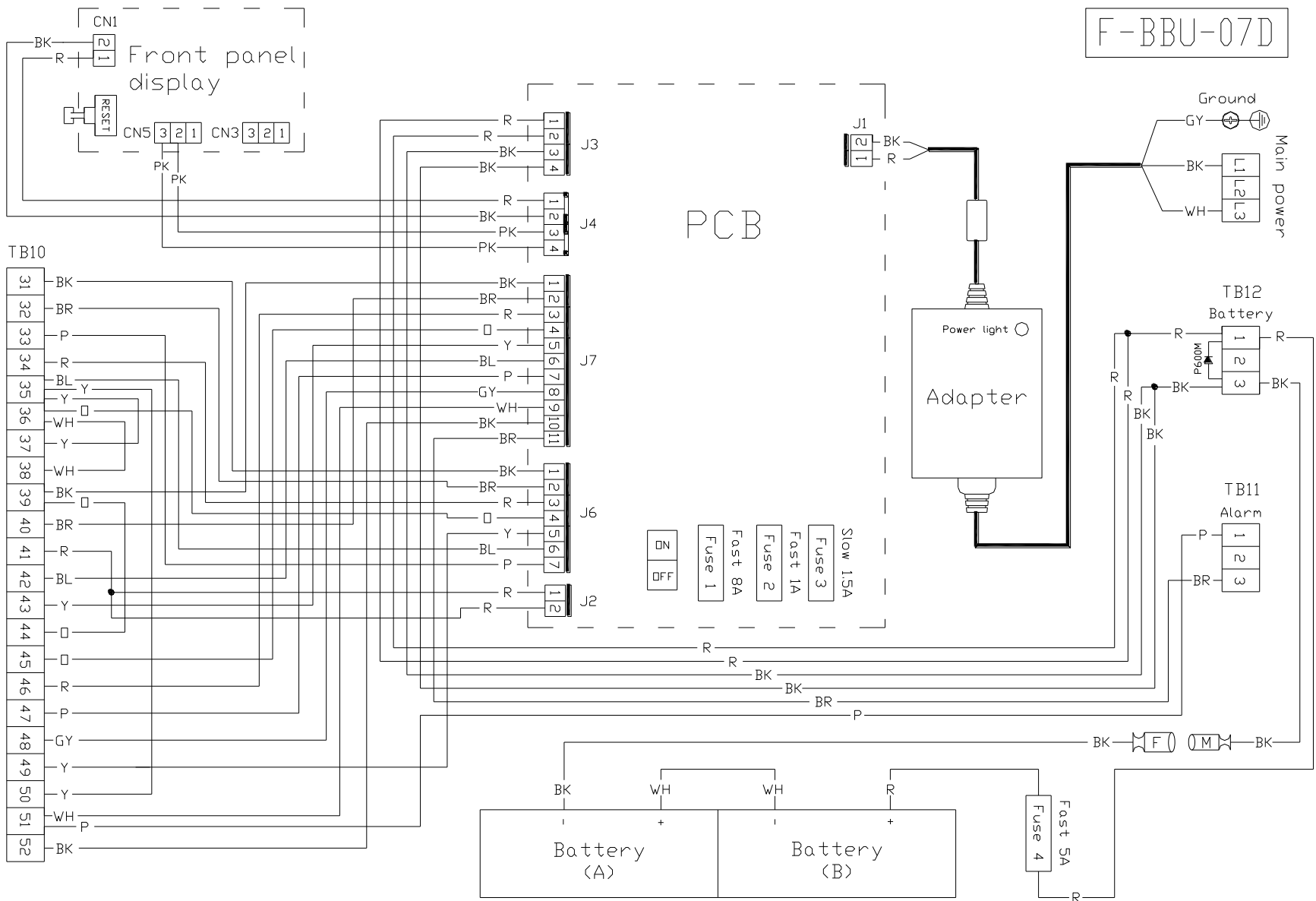
FS Control Wiring Schematic Diagram  
(UL 325-2010 Version)



Battery Back Up Module F-BBU Schematic.



2011.04.14



F-BBU-07D

Rev:2011.07.18