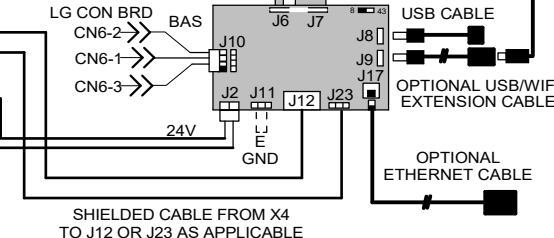


**WARNING**  
DISCONNECT POWER BEFORE SERVICING

BOX DEPICTS OPTIONAL ITEMS  
BOX DEPICTS DUAL SENSOR SINGLE HOUSING

— LOW VOLTAGE  
— 120 VAC  
— HIGH VOLTAGE

17	SHIELD
18	A BAS OPTION
19	B BAS OPTION
20	SHIELD
21	0-10V + RATE OUT
22	0-10V - RATE OUT
23	0-10V + BOILER PUMP OUT
24	0-10V - BOILER PUMP OUT
25	SYSTEM RETURN SENSOR
27	SYSTEM SUPPLY SENSOR
28	TANK SENSOR
29	OUTDOOR SENSOR
31	SHIELD
32	0-10V + BMS IN
34	0-10V - BMS IN
35	0-10V + SYSTEM PUMP IN
37	0-10V - SYSTEM PUMP IN
36	SHIELD
38	A CASCADE
39	B CASCADE
40	SHIELD



1	ALARM CONTACTS
2	ALARM CONTACTS
3	RUN-TIME CONTACTS
4	RUN-TIME CONTACTS
5	TANK THERMOSTAT
6	ENABLE
7	ENABLE
8	LOUVER PROVING
9	LOUVER PROVING
10	24 VAC LOUVER RELAY COIL
11	AUX SWITCH 1
12	AUX SWITCH 1
13	AUX SWITCH 2
14	AUX SWITCH 2
15	HIGH LIMIT SWITCH
16	HIGH LIMIT SWITCH

Notes:  
1. All wiring must be installed in accordance with: local, state, provincial and national code requirements per either N.E.C. in USA or C.S.A. in Canada.  
2. If any original equipment wire as supplied with the appliance must be replaced, it must be replaced with wire having same wire gauge (AWG) and rated for a minimum of 105°C. Exceptions: Replacement high voltage spark lead and shielded cables must be purchased from the factory. Use of a non-approved spark lead or shielded cables can lead to operational problems which could result in non-repairable damage to the integrated controller or other components.  
3. Actual connector block locations may vary from those shown on diagrams. Refer to actual components for proper connector block locations when using diagrams to troubleshoot unit.