

DIAGNOSTIC LED FEATURES

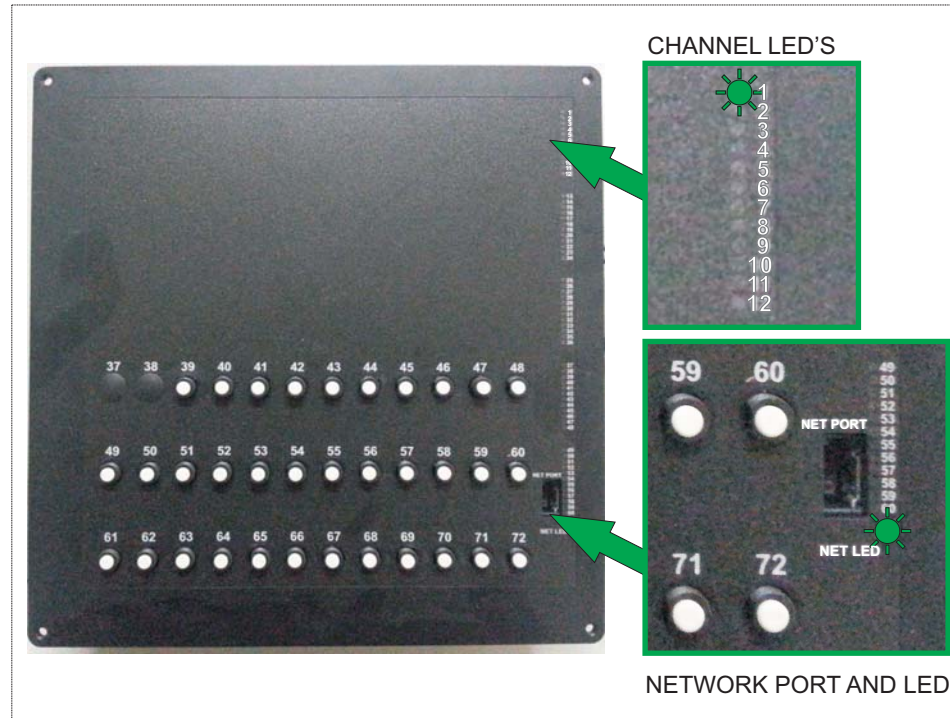
Each SWITCH PANEL and CONTROL PANEL has built-in diagnostic LED indicators. The CHANNEL LED corresponds with the circuit listed on the chart to the left and indicates if the circuit is ON or OFF. The NETWORK LED indicates if the panel has power and whether or not it is communicating with the other panels within the network.

In the event of a switch panel with a NETWORK LED that indicates a fault, unplug the SWITCH PANEL and plug it directly into the NETWORK PORT on one of the CONTROL PANELS. If the SWITCH PANEL LED turns solid green, this could indicate a network wiring issue. Refer to the NETWORK WIRING GUIDE in the previous page.

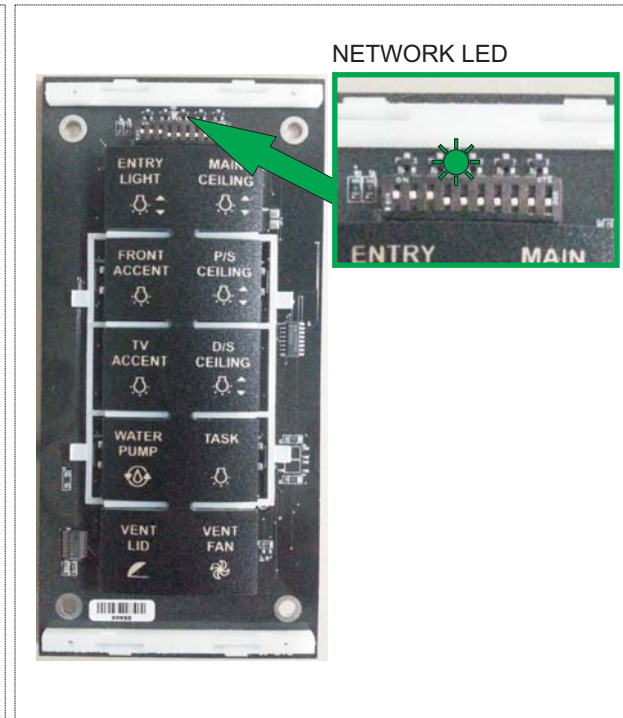
House Panel		
Channel	Pinout	Load
1	1-1	MAIN O/H / LIV RM LIGHT
2	1-2	ENTRY / FLOOR LIGHT
3	1-3	P/S CEILING LIGHTS
4	1-4	D/S CEILING LIGHTS
5	2-1	MID HALL LIGHTS
6	2-2	P/S SLIDE LIGHTS
7	2-3	P/S SCONCE
8	2-4	D/S SLIDE LIGHTS
9	3-1	D/S SCONCE
10	3-2	BED READING LIGHTS (REAR)
11	3-3	BED SCONCE LIGHTS
12	3-4	BEDROOM LIGHTS
13	4-1	REAR BATH/MID SINK CEILING LIGHTS
14	4-2	TASK LIGHTS
15	4-3	MID BATH CEILING LIGHTS
16	4-4	MID BATH VANITY LIGHTS
17	5-1	REAR BATH/MID SINK VANITY LIGHTS
18	5-2	TV ACCENT LIGHTS
19	5-3	FRONT ACCENT LIGHTS
20	5-4	REAR ACCENT LIGHTS
21	6-1	ROAD LIGHT
22	6-2	PORCH LIGHT
23	6-3	ELECTRIC WTR HT
24	6-4	DIESEL / GAS WTR HT
25	7-1	GALLEY FAN ON/OFF
26	7-2	GALLEY FAN UP
27	7-3	GALLEY FAN DN
28	7-4	CLOSET LIGHTS (OPTIONAL)
29	8-1	MID BATH FAN ON/OFF
30	8-2	MID BATH FAN UP
31	8-3	MID BATH FAN DN
32	8-4	REAR BATH / MID SINK FAN ON/OFF
33	9-1	REAR BATH / MID SINK FAN UP
34	9-2	REAR BATH / MID SINK FAN DN
35	9-3	CEILING FAN LO
36	9-4	CEILING FAN HI
37	10-1	FLOOR HEAT TRIGGER - ZONE 1 (OPTIONAL)
38	10-2	FLOOR HEAT TRIGGER - ZONE 2 (OPTIONAL)
39	10-3	AQUA-HOT ELEC - HI (OPTIONAL)
40	10-4	AQUA-HOT ELEC - LO (OPTIONAL)
41	11-1	
42	11-2	
43	11-3	
44	11-4	
45	12-1	
46	12-2	
47	12-3	
48	12-4	

Chassis Panel		
Channel	Pinout	Load
1	1-1	D/S FR SLIDE RET
2	1-2	D/S FR SLIDE EXT
3	1-3	P/S FR SLIDE RET
4	1-4	P/S FR SLIDE EXT
5	2-1	D/S RR SLIDE RET
6	2-2	D/S RR SLIDE EXT
7	2-3	P/S RR SLIDE RET
8	2-4	P/S RR SLIDE EXT
9	3-1	HYDRAULIC PUMP - D/S SLIDE
10	3-2	HYDRAULIC PUMP - P/S SLIDE
11	3-3	PORCH / DOOR CONSTANT / UNDERCOACH LTS
12	3-4	AQUA-HOT ENGINE PREHEAT
13	4-1	WATER PUMP
14	4-2	HEADLIGHTS (INDICATION FLASH)
15	4-3	DOOR / ASSIST HANDLE
16	4-4	CARGO LIGHT
17	5-1	GALLEY SLIDE DAY SHD UP/DOOR AAWN RET
18	5-2	GALLEY SLIDE SHD DN/DOOR AAWN EXT
19	5-3	GALLEY SLIDE NIGHT SHD UP/PORCH AAWN RET
20	5-4	GALLEY SLIDE NIGHT SHD DN/PORCH AAWN EXT
21	6-1	ENTRY SHADE UP
22	6-2	ENTRY SHD DN
23	6-3	GEN START
24	6-4	GEN STOP

CONTROL PANEL LED INDICATORS



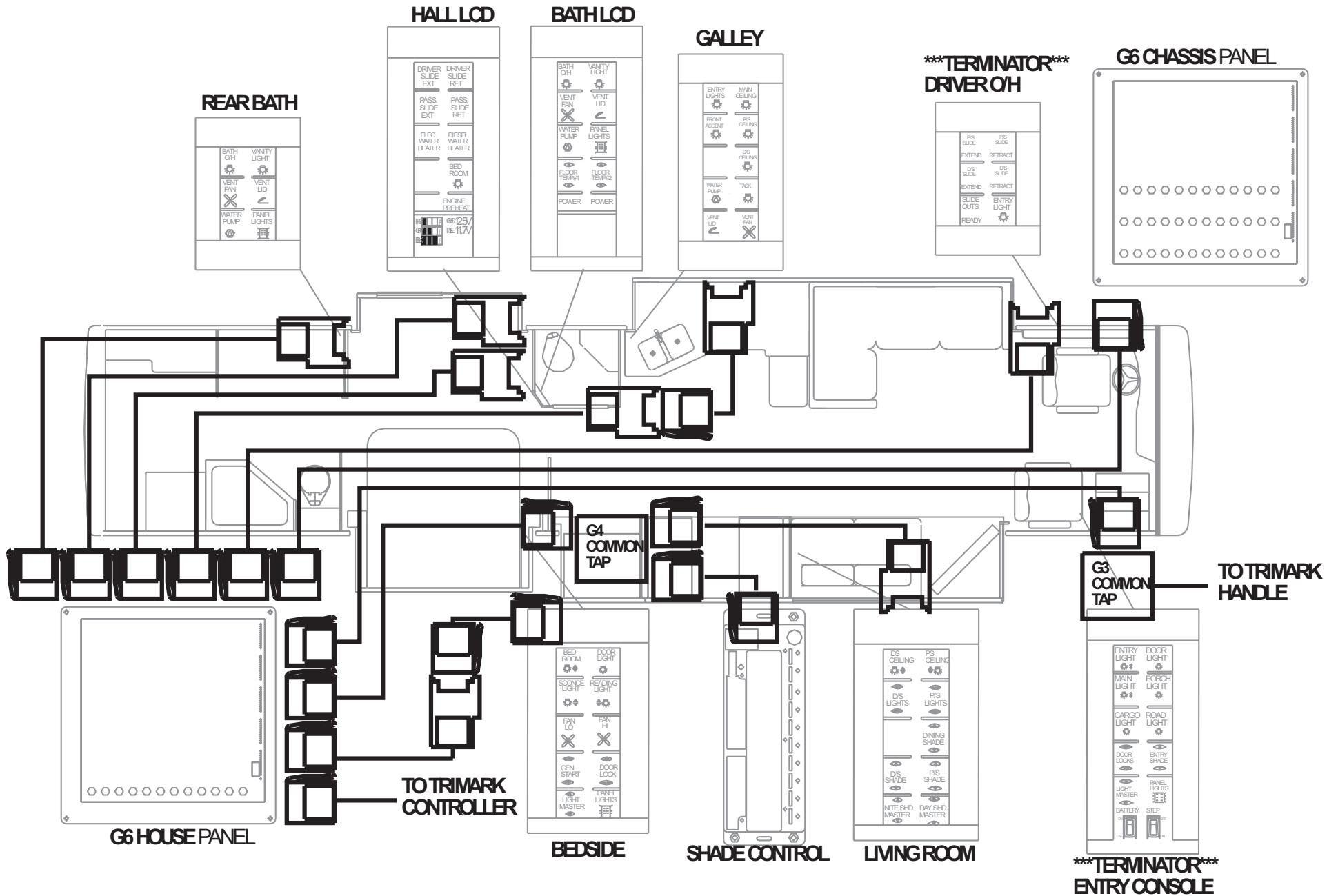
CONTROL PANEL LED INDICATORS



NETWORK STATUS LED INDICATOR

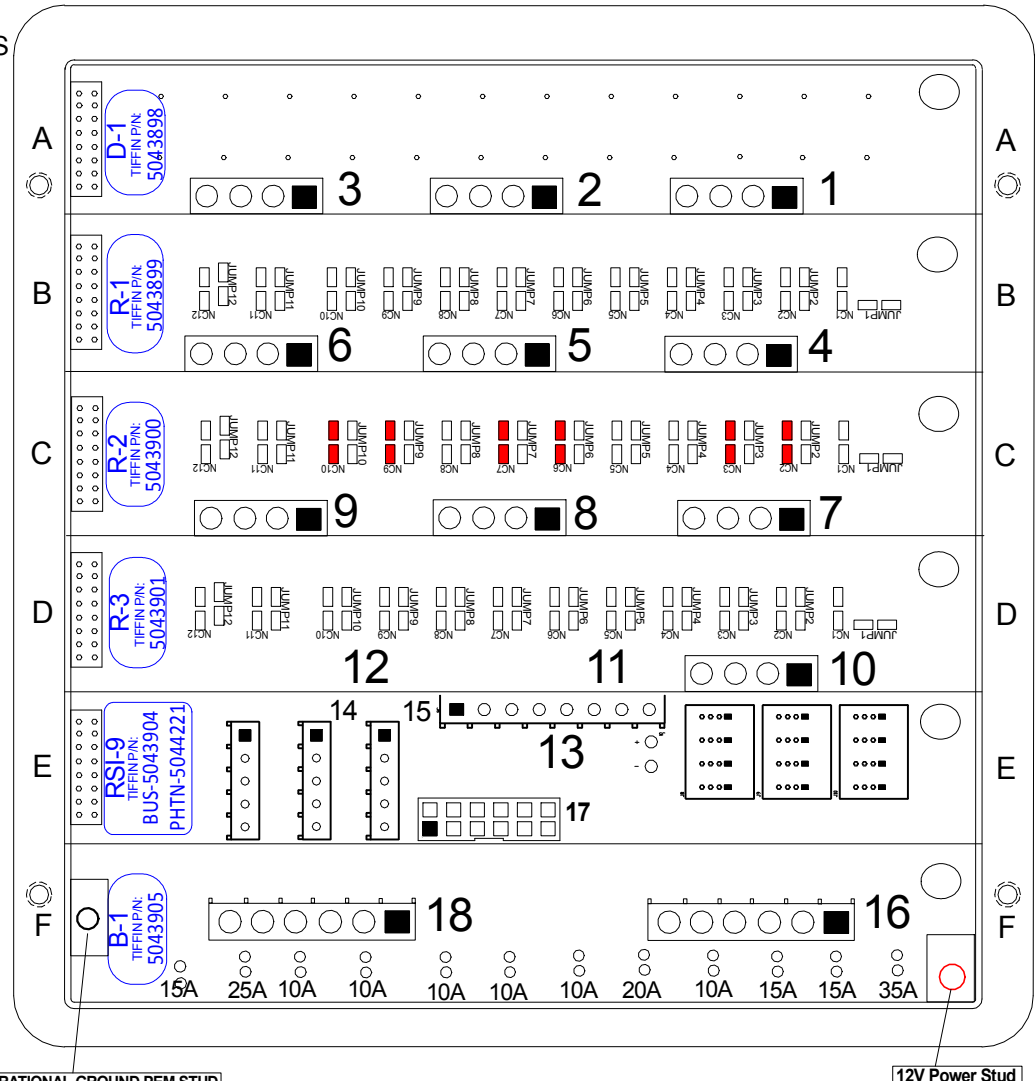
- ★ - SOLID GREEN - device is connected to network and communicating properly
 - - LED OFF - device has no power or has completely failed
- ★ - SOLID RED - device has gone offline and is not connected to network
- ★ / ○ - FAST FLASHING GREEN (4 times / sec.) - device is attempting to make initial connection and claim a network address
- ★ / ○ - SLOW FLASHING GREEN (1 time / sec.) - device was online but has not seen a valid network message for 5 seconds
- ★ / ★ - ALTERNATING RED & ORANGE - device has gone offline and is attempting to re-connect (within 30 seconds)
- ★ / ★ - ALTERNATING GREEN & ORANGE - device is currently online but has gone offline 2 or more times

2015 BUS NETWORK WIRING DIAGRAM



**G6A CONTROL PANEL LAYOUT
ZEPH, BUS, PHTN - HOUSE
PINOUT DIAGRAM - 02/17/2015**

Back View



- CONNECTOR 4**
- 4-1 REAR BATH/MID SINK CEILING LIGHTS
 - 4-2 TASK LIGHTS
 - 4-3 MID BATH CEILING LIGHTS
 - 4-4 MID BATH VANITY LIGHTS

- CONNECTOR 5**
- 5-1 REAR BATH/MID SINK VANITY LIGHTS
 - 5-2 TV ACCENT LIGHTS
 - 5-3 FRONT ACCENT LIGHTS
 - 5-4 REAR ACCENT LIGHTS

- CONNECTOR 6**
- 6-1 ROAD LIGHT
 - 6-2 PORCH LIGHT
 - 6-3 ELECTRIC WTR HT
 - 6-4 DIESEL / GAS WTR HT

- CONNECTOR 10**
- 10-1 FLR HT ZN 1
 - 10-2 FLR HT ZN 2
 - 10-3 HYDRAHOT ELEC HI
 - 10-4 HYDRAHOT ELEC LO

- CONNECTOR 11**
- DO NOT POPULATE
 - DO NOT POPULATE
 - DO NOT POPULATE
 - DO NOT POPULATE
- CONNECTOR 12**
- DO NOT POPULATE
 - DO NOT POPULATE
 - DO NOT POPULATE
 - DO NOT POPULATE

- CONNECTOR 17**
- 17-6
 - 17-5
 - 17-4
 - 17-3
 - 17-2 RR THERMISTOR
 - 17-1 FR THERMISTOR

- P/N: 770581-1
- CONNECTOR 14 (12V+ INPUTS)**
- 14-1 WTR HTR STATUS
 - 14-2 IGNITION INPUT
 - 14-3 HOUSE DISCONNECT 12V+
 - 14-4
 - 14-5

- CONNECTOR 15 (GND INPUTS)**
- 15-1 WATER PUMP SW
 - 15-2 PARK BRAKE INPUT
 - 15-3 CLOSET LIGHT SW
 - 15-4 ENTRY DOOR PIN SW
 - 15-5

- CONNECTOR 18**
- 18-1 FRONT THERMO
 - 18-2 MID THERMO
 - 18-3 TOILET/REAR THERMO
 - 18-4 BRKR TO RR SLIDE
 - 18-5 FRIDGE
 - 18-6

- CONNECTOR 16**
- 16-1 MACERATOR TOILET
 - 16-2 FRONT FURNACE
 - 16-3 REAR FURNACE
 - 16-4 SWITCHER / LP/IR
 - 16-5 OUTSIDE TV
 - 16-6 BRKR TO FR SLD / SHD MOD

- CONNECTOR 1**
- 1-1 MAIN O/H / LIV RM LIGHT
 - 1-2 ENTRY / FLOOR LIGHT
 - 1-3 PS CEILING LIGHTS
 - 1-4 DS CEILING LIGHTS

- CONNECTOR 2**
- 2-1 MID HALL LIGHTS
 - 2-2 PS SLIDE LIGHTS
 - 2-3 PS SCONCE
 - 2-4 DS SLIDE LIGHTS

- CONNECTOR 3**
- 3-1 DS SCONCE
 - 3-2 BED READING LIGHTS (REAR)
 - 3-3 BED SCONCE LIGHTS
 - 3-4 BEDROOM LIGHTS

- CONNECTOR 7**
- 7-1 GALLEY FAN ON/OFF
 - 7-2 GALLEY FAN UP
 - 7-3 GALLEY FAN DN
 - 7-4 CLOSET LIGHTS (OPTIONAL)

- CONNECTOR 8**
- 8-1 MID BATH FAN ON/OFF
 - 8-2 MID BATH FAN UP
 - 8-3 MID BATH FAN DN
 - 8-4 REAR BATH / MID SINK FAN ON/OFF

- CONNECTOR 9**
- 9-1 REAR BATH / MID SINK FAN UP
 - 9-2 REAR BATH / MID SINK FAN DN
 - 9-3 CEILING FAN LO
 - 9-4 CEILING FAN HI

- CONNECTOR 13**
- Pin 1: Unused
 - Pin 2: Constant 12V+ (BATT)
 - Pin 3: GND (Common for sensors)
 - Pin 4: LPG Sensor Input
 - Pin 5: Black Tank Sensor Input
 - Pin 6: Grey Tank Sensor Input
 - Pin 7: Fresh Tank Sensor Input
 - Pin 8: Unused

Card Legend

R=RELAY CARD
 B=BREAKER CARD
 RSI-9=INPUT MODULE
 D=DIMMER CARD
 ■ = JUMPED

NOTE: CONNECTORS ARE SHOWN HERE IN THE LOADED (REAR) VIEW.

**G6A CONTROL PANEL LAYOUT
ZEPH, BUS, PHTN, RED - CHASSIS
PINOUT DIAGRAM - 11/05/ 2014**

Back View

- CONNECTOR 4**
- 4-1 WATER PUMP
 - 4-2 HEADLIGHTS (INDICATION FLASH)
 - 4-3 DOOR / ASSIST HANDLE
 - 4-4 CARGO LIGHT

- CONNECTOR 5**
- 5-1 SOFA DAY SHD UP/DOOR AWN RET
 - 5-2 SOFA DAY SHD DN/DOOR AWN EXT
 - 5-3 SOFA NIGHT SHD UP/PORCH AWN RET
 - 5-4 SOFA NIGHT SHD DN/PORCH AWN EXT

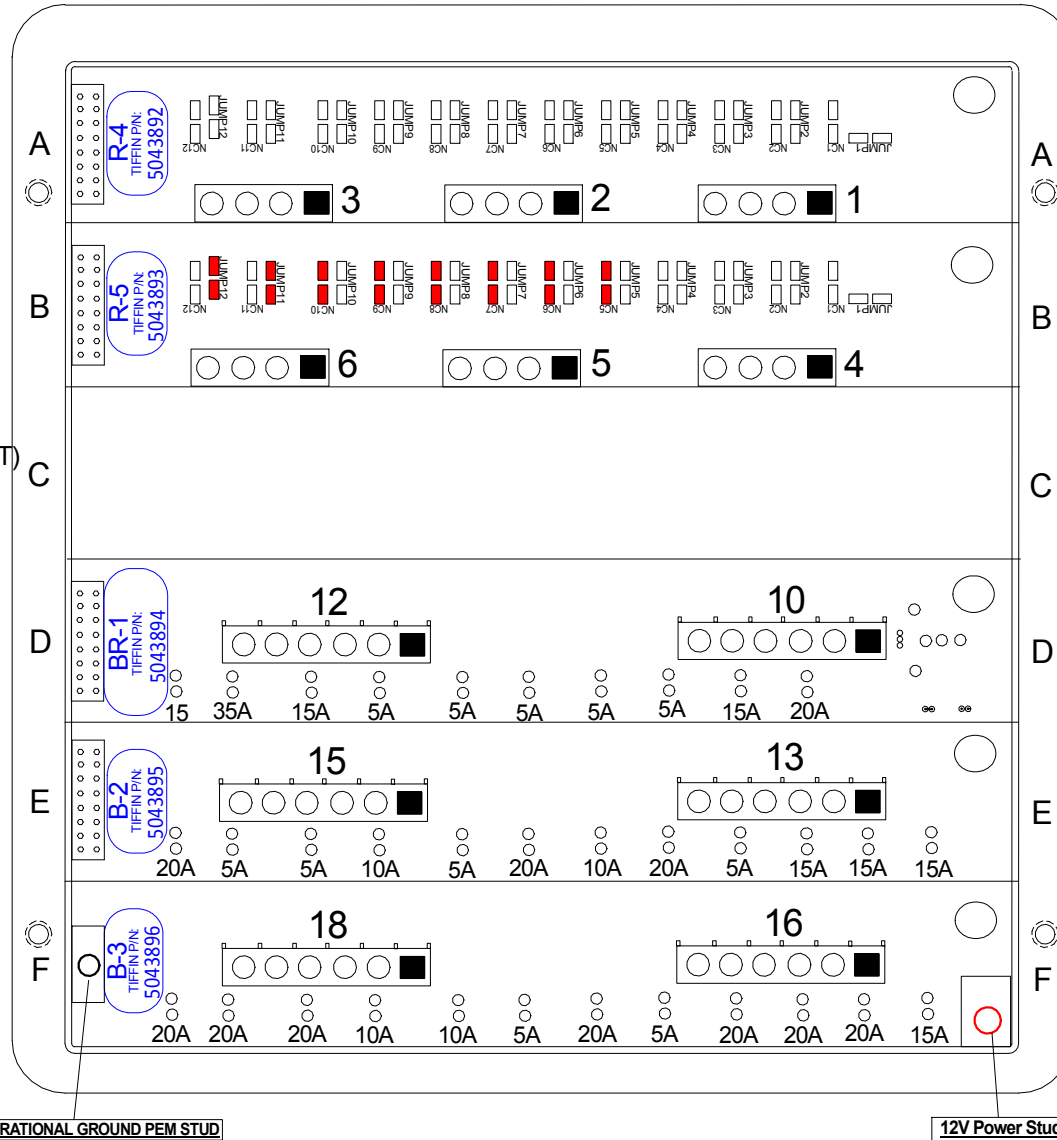
- CONNECTOR 6**
- 6-1 ENTRY SHADE UP
 - 6-2 ENTRY SHD DN
 - 6-3 GEN START
 - 6-4 GEN STOP

- CONNECTOR 13**
- 13-1 MAP LT / RADIO / FANS
 - 13-2 USB POWER
 - 13-3 KEYLESS POWER
 - 13-4 ENTRY STEP SWITCH
 - 13-5 ENTRY STEP POWER
 - 13-6 CARGO LIGHTS (CONST)

- CONNECTOR 15**
- 15-1 POWER SEAT #1
 - 15-2 CB
 - 15-3 ELEC STEP COVER
 - 15-4 SATELITE
 - 15-5 SHADES
 - 15-6 POWER SEAT #2

Card Legend

- R=RELAY CARD**
- B=BREAKER CARD**
- BR=BREAKER/
RELAY CARD**
- D=DIMMER CARD**
- = JUMPERED**



NOTE: CONNECTORS ARE SHOWN HERE IN THE LOADED (REAR) VIEW.

- CONNECTOR 1**
- 1-1 D/S FR SLIDE RET
 - 1-2 D/S FR SLIDE EXT
 - 1-3 P/S FR SLIDE RET
 - 1-4 P/S FR SLIDE EXT

- CONNECTOR 2**
- 2-1 D/S RR SLIDE RET
 - 2-2 D/S RR SLIDE EXT
 - 2-3 P/S RR SLIDE RET
 - 2-4 P/S RR SLIDE EXT

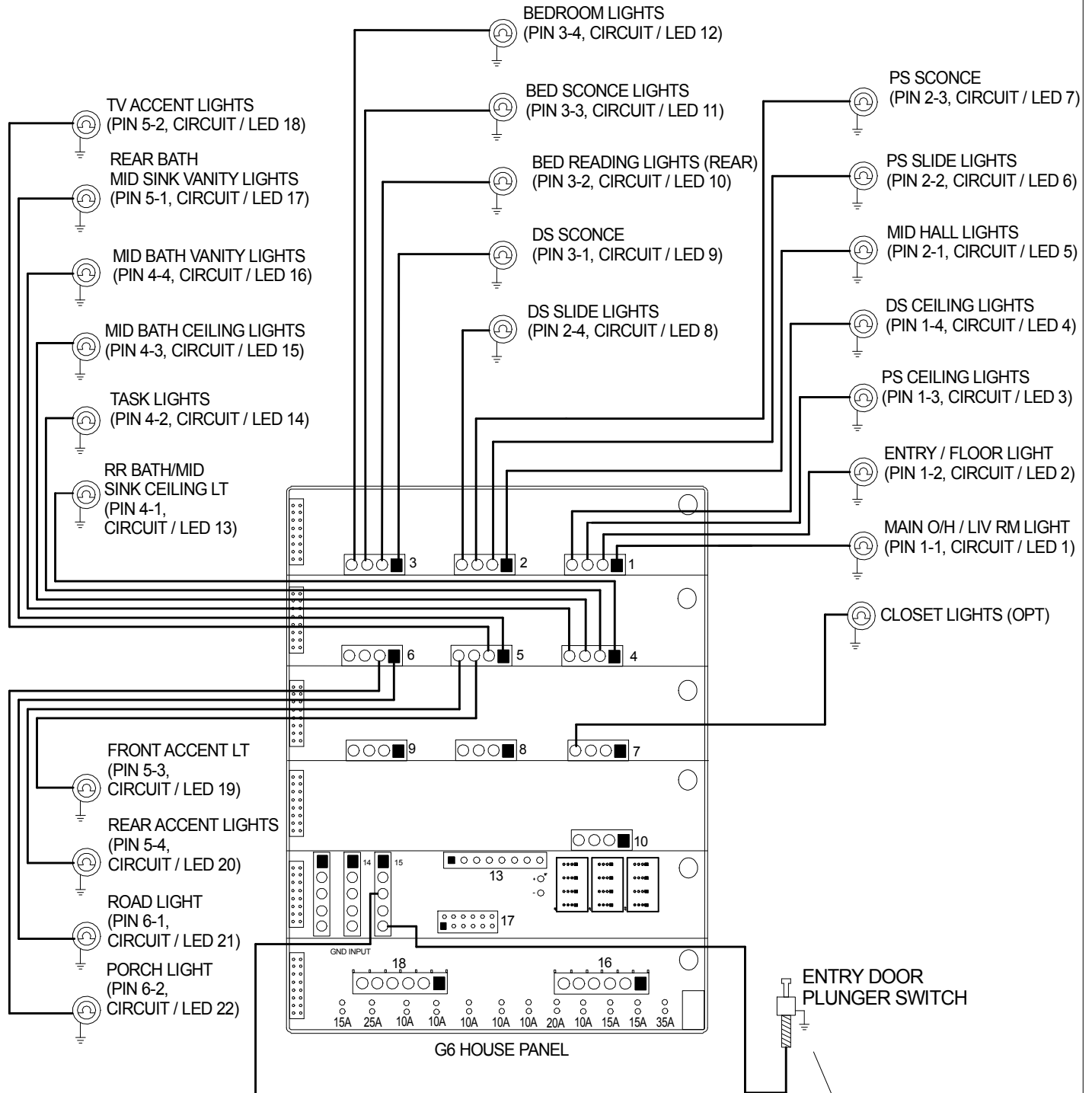
- CONNECTOR 3**
- 3-1 HYDRAULIC PUMP - D/S SLIDE
 - 3-2 HYDRAULIC PUMP - P/S SLIDE
 - 3-3 PORCH/DOOR CONST/UNDCHC
 - 3-4 HYDRA-HOT ENGINE PREHEAT

- CONNECTOR 10**
- 10-1
 - 10-2
 - 10-3 DENSO A/C PWR IGN(YELLOW)
 - 10-4 MIRRORS
 - 10-5 CAMERA IGN
 - 10-6 JACK BUZZER

- CONNECTOR 12**
- 12-1 PANEL LAMP/HEADLT LED
 - 12-2 FRIDGE
 - 12-3 ENTRY STEP IGN
 - 12-4 DOCK LIGHT
 - 12-5 WIPER
 - 12-6 POWER WINDOW OPTION

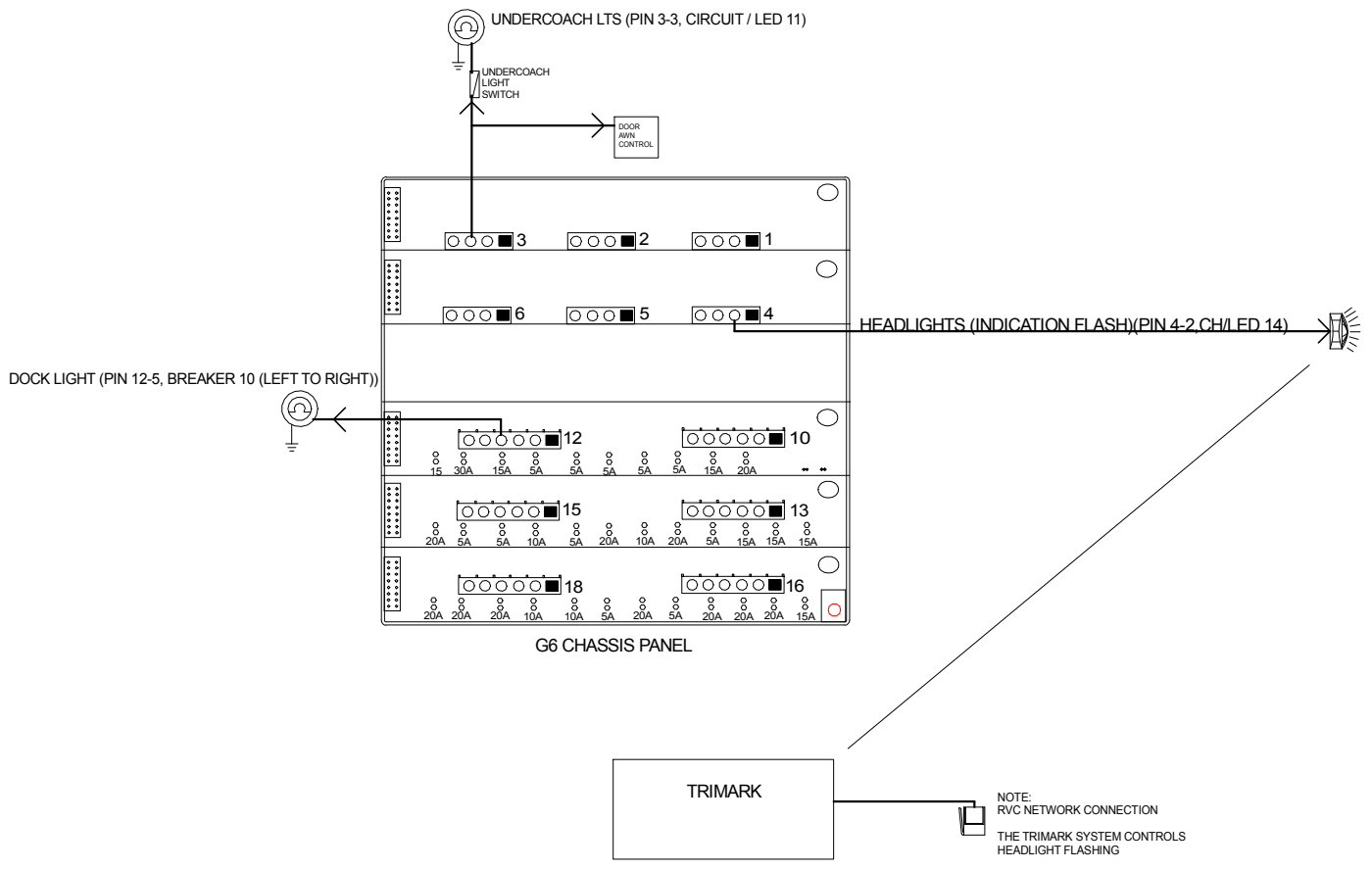
- CONNECTOR 16**
- 16-1 RADIO MEMORY / XM PWR
 - 16-2 DENSO A/C POWER
 - 16-3 12V+ OUTLET #1
 - 16-4 12V+ OUTLET #2
 - 16-5 ENGINE PREHEAT SWITCH
 - 16-6 HYDRA-HOT (option)

- CONNECTOR 18**
- 18-1 EMS MODULE
 - 18-2 CORD REEL
 - 18-3 HOSE REEL
 - 18-4 FRONT SLIDE MODULE
 - 18-5 VANITY SLIDE MODULE
 - 18-6 BED SLIDE MODULE



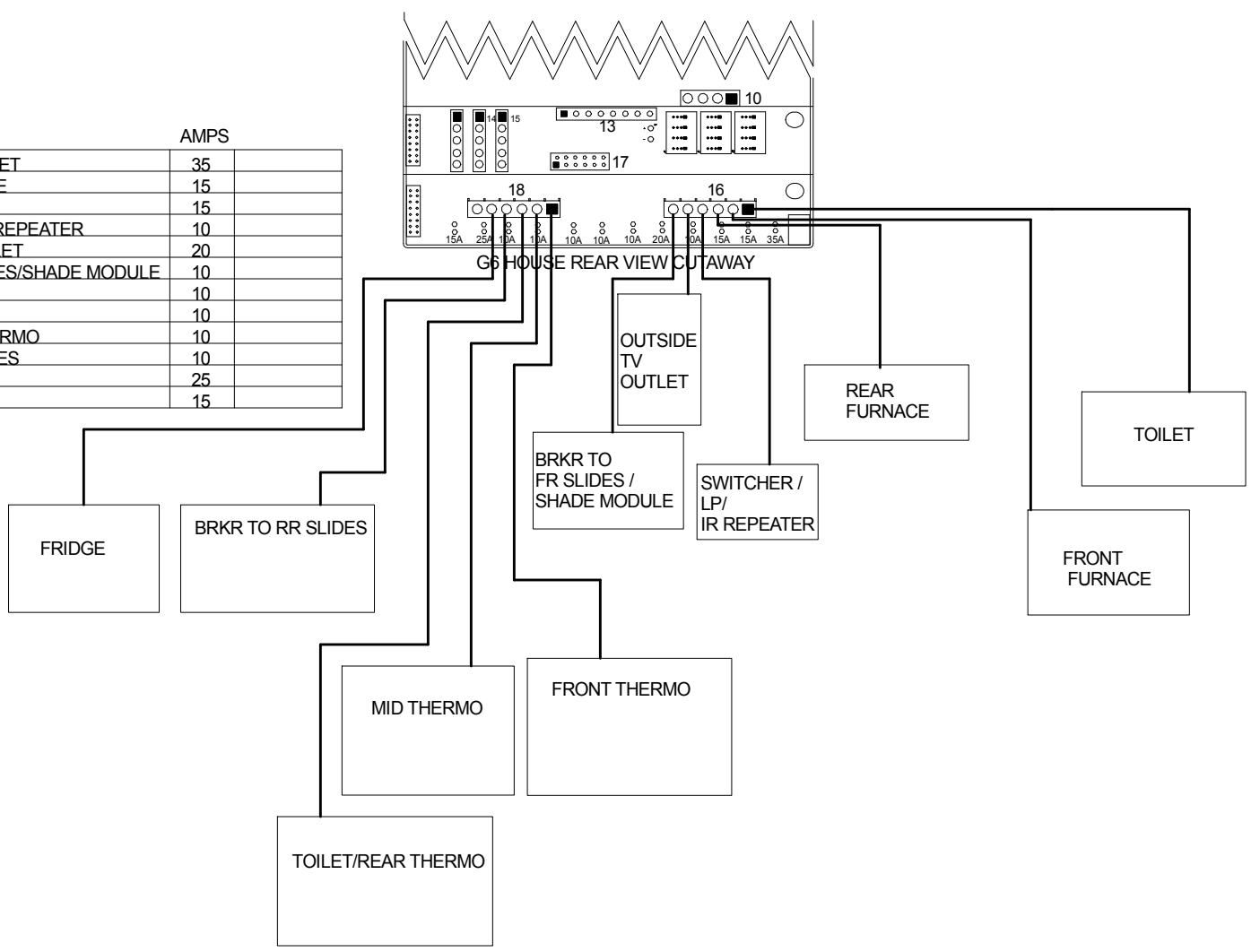
NOTE:
 (WHEN THIS SWITCH IS GROUNDED,
 ENTRY LIGHT TURNS ON FOR 2 MINUTES,
 DOOR SHADE LIFTS
 AND PANEL LIGHTS ON THE ENTRY
 SWITCH PANEL TURN ON)

DESC.	G6 HOUSE PANEL LIGHTS		
DESIGN FOR:	TIFFIN BUS/PHTN	TYPE:	ELECTRICAL DRAWING
REV #	1v0		
SPYDER CONTROLS CORP	NOV 03/2014		



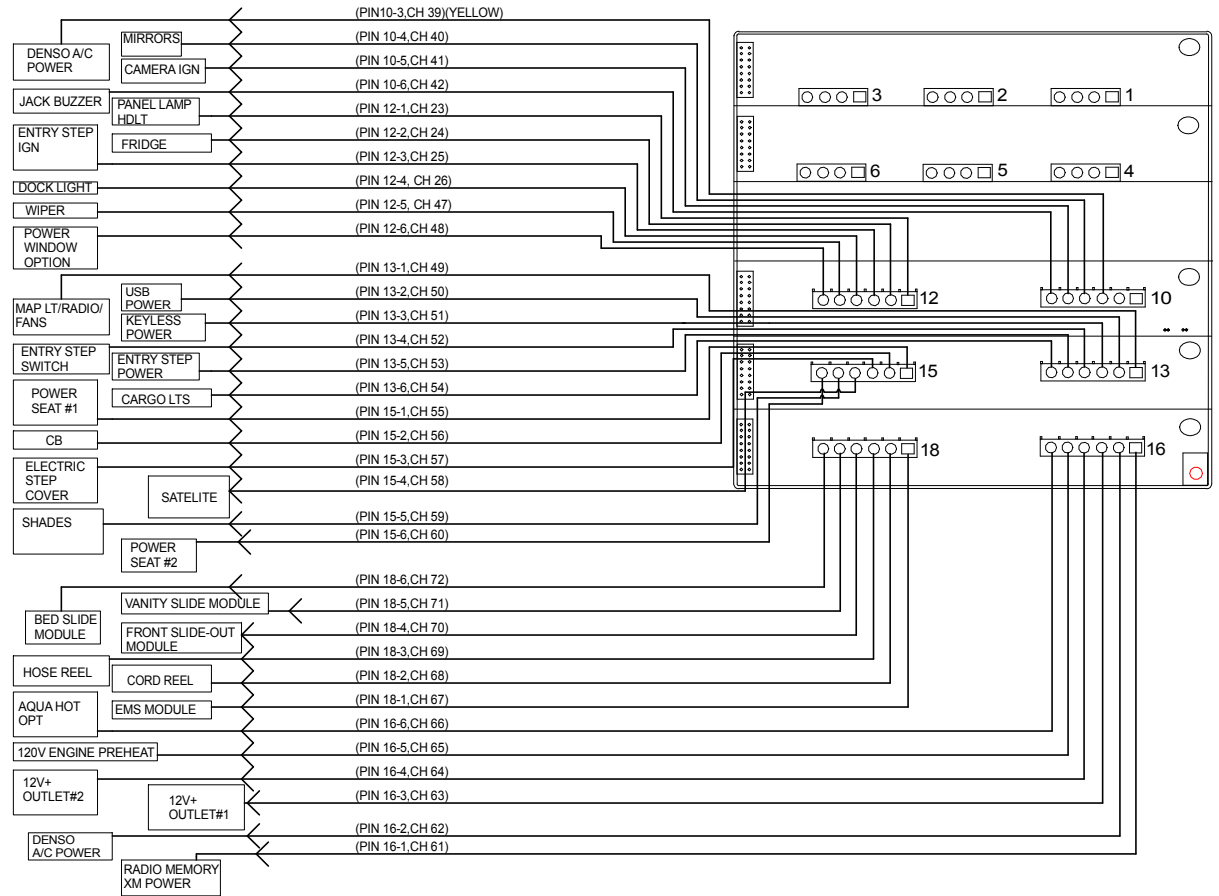
DESC. CHASSIS LIGHTS	
DESIGN FOR: TIFFIN BUS	TYPE: ELECTRICAL DRAWING
REV # 1v0	
SPYDER CONTROLS CORP	OCT 02/2014

BREAKER		AMPS
61	MACERATOR TOILET	35
62	FRONT FURNANCE	15
63	REAR FURNACE	15
64	SWITCHER/LP/IR REPEATER	10
65	OUTSIDE TV OUTLET	20
66	BRKR TO FR SLIDES/SHADE MODULE	10
67	FRONT THERMO	10
68	MID THERMO	10
69	TOILET/REAR THERMO	10
70	BRKR TO RR SLIDES	10
71	FRIDGE	25
72		15



DESC. G6 HOUSE PANEL BREAKERS	
DESIGN FOR: TIFFIN BUS/PHTN	TYPE: ELECTRICAL DRAWING
REV # 1v0	
SPYDER CONTROLS CORP	OCT 02/2014

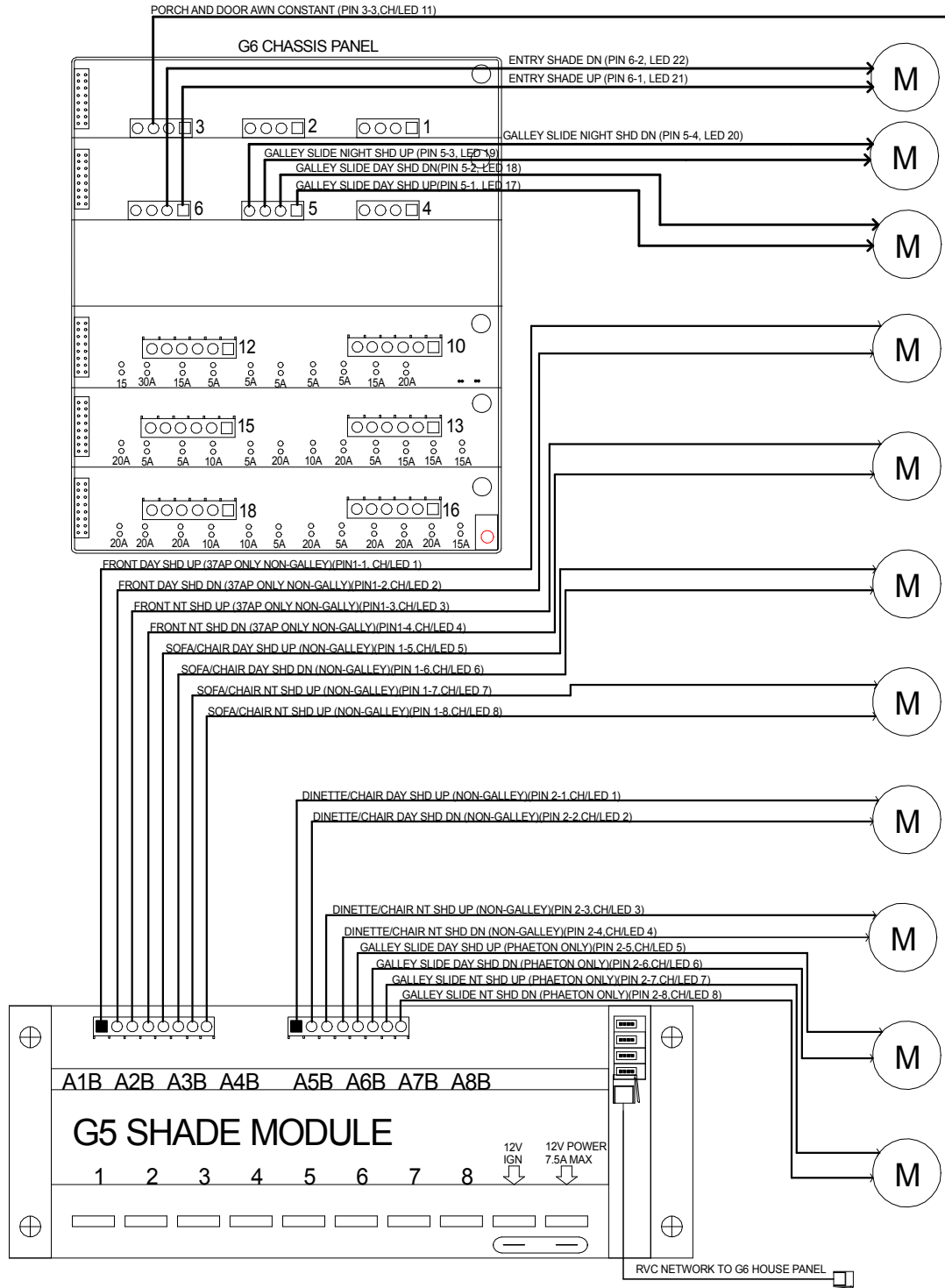
		AMPS	
BREAKER MODULE (IGN)	37		
	38		
	39	DENSO A/C POWER IGNITION	20
	40	MIRRORS	15
	41	CAMERA IGN	5
	42	JACK BUZZER	5
	43	PANEL LAMP / HDLT	5
	44	FRIDGE	5
BREAKER	45	ENTRY STEP IGN	5
	46	DOCK LIGHT	15
	47	WIPER	35
	48	POWER WINDOW OPTION	15
	49	MAP LT / RADIO / FANS	15
	50	USB POWER	15
	51	KEYLESS POWER	15
	52	ENTRY STEP SWITCH	5
	53	ENTRY STEP POWER	20
	54	CARGO LIGHTS (CONSTANT)	10
BREAKER	55	POWER SEAT #1	20
	56	CB	5
	57	ELEC STEP COVER	10
	58	SATELITE	5
	59	SHADES	5
	60	POWER SEAT #2	20
	61	RADIO MEMORY / XM POWER	15
	62	DENSO A/C POWER	20
	63	12V+ OUTLET #1	20
	64	12V+ OUTLET #2	20
	65	120V ENGINE PREHEAT SWITCH	5
	66	AQUA HOT (OPTION)	10
	67	EMS MODULE	5
	68	CORD REEL	10
69	HOSE REEL	10	
70	FRONT SLIDE-OUT MODULE	20	
71	VANITY SLIDE MODULE	20	
72	BED SLIDE MODULE	20	



DESC. CHASSIS BREAKER PANEL

DESIGN FOR: TIFFIN BUS/PHTN TYPE: ELECTRICAL DRAWING
REV # | 1v0

SPYDER CONTROLS CORP OCT 02/2014

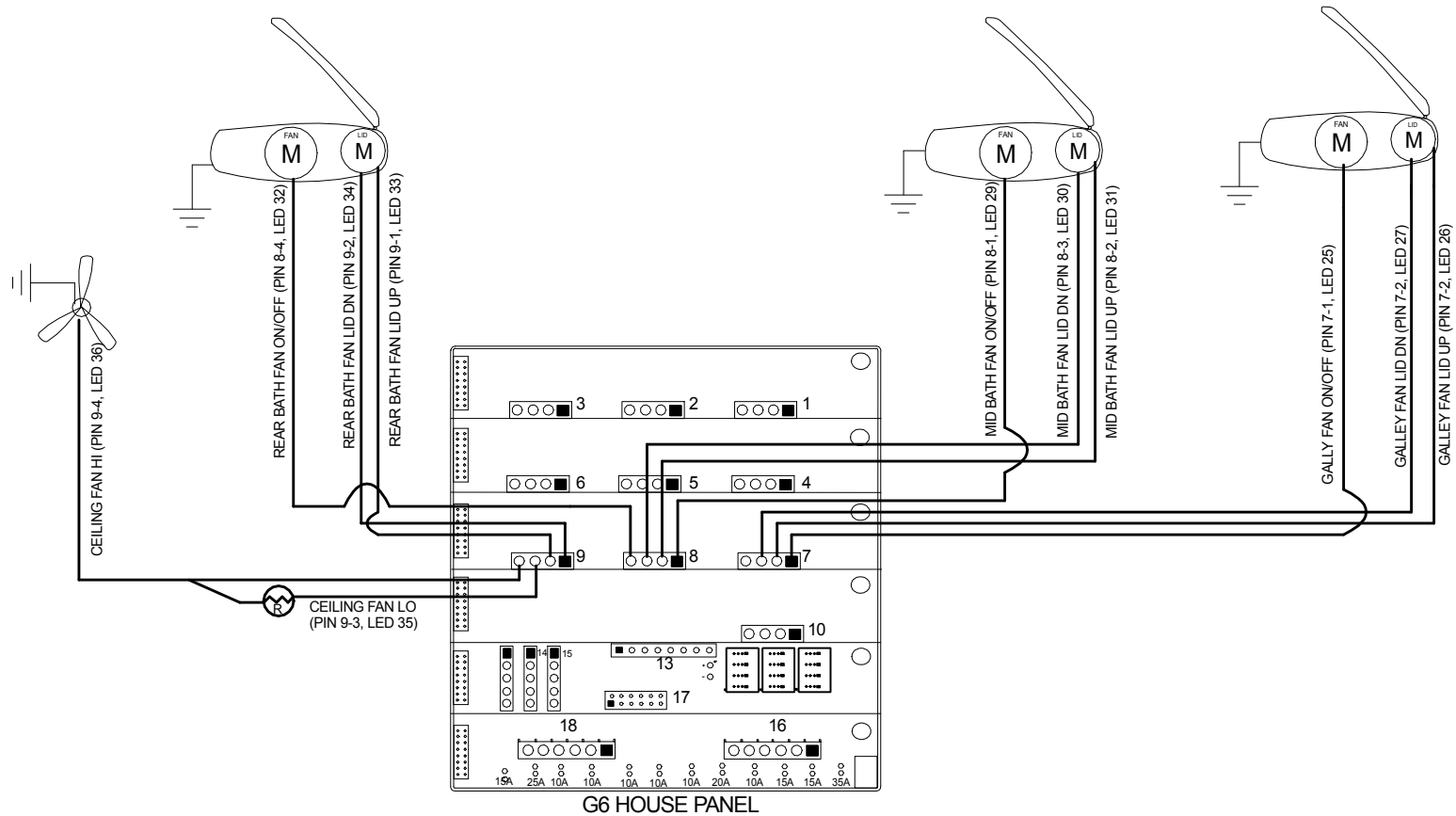


DOOR AWN ENABLE

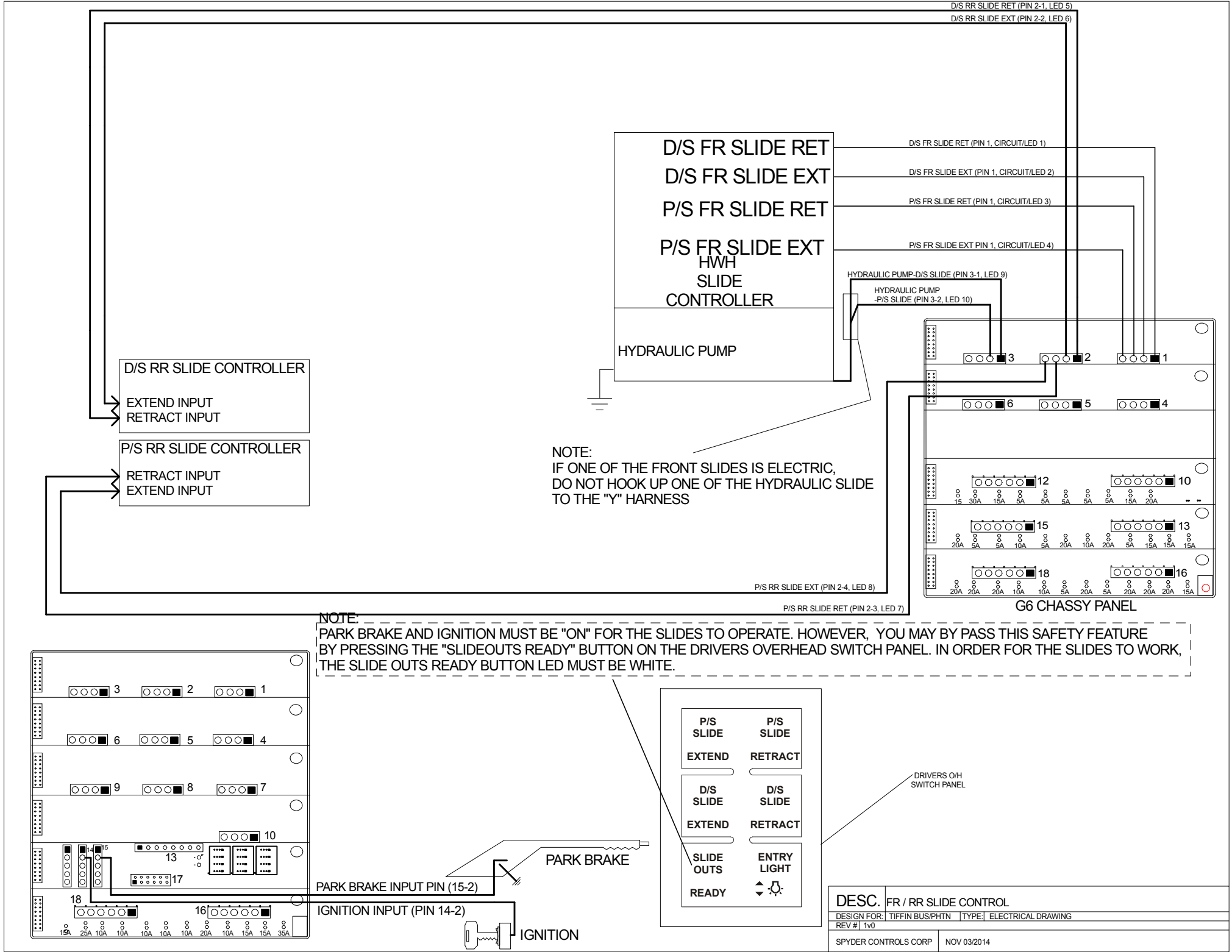
PORCH AWN ENABLE

NOTE:
IN ORDER FOR THE PORCH AND DOOR AWNING TO FUNCTION,
THE PARK BRAKE MUST BE ENGAGED.

DESC.	SHADES / AWNINGS W/ G6 CHASSIS AND SHADE CONTROL MODULE		
DESIGN FOR:	TIFFIN BUS	TYPE:	ELECTRICAL DRAWING
REV #	1v0		
SPYDER CONTROLS CORP		NOV 03/2014	



DESC.	HOUSE FANS
DESIGN FOR:	TIFFIN BUS/PHTN
TYPE:	ELECTRICAL DRAWING
REV #	1v0
SPYDER CONTROLS CORP	NOV 03/2014



D/S RR SLIDE RET (PIN 2-1, LED 5)
 D/S RR SLIDE EXT (PIN 2-2, LED 6)

D/S FR SLIDE RET
 D/S FR SLIDE EXT
 P/S FR SLIDE RET
 P/S FR SLIDE EXT
 HWH
 SLIDE
 CONTROLLER

HYDRAULIC PUMP

D/S RR SLIDE CONTROLLER

EXTEND INPUT
 RETRACT INPUT

P/S RR SLIDE CONTROLLER

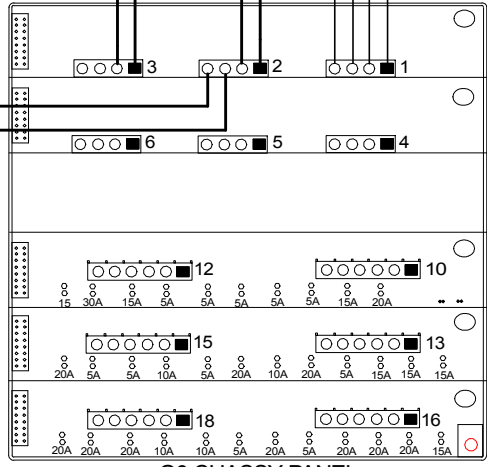
RETRACT INPUT
 EXTEND INPUT

NOTE:
 IF ONE OF THE FRONT SLIDES IS ELECTRIC,
 DO NOT HOOK UP ONE OF THE HYDRAULIC SLIDE
 TO THE "Y" HARNESS

HYDRAULIC PUMP-D/S SLIDE (PIN 3-1, LED 9)
 HYDRAULIC PUMP
 -P/S SLIDE (PIN 3-2, LED 10)

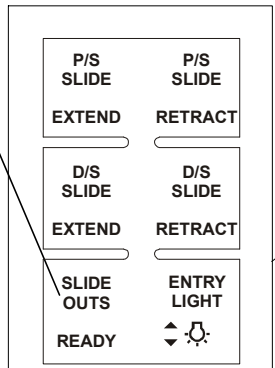
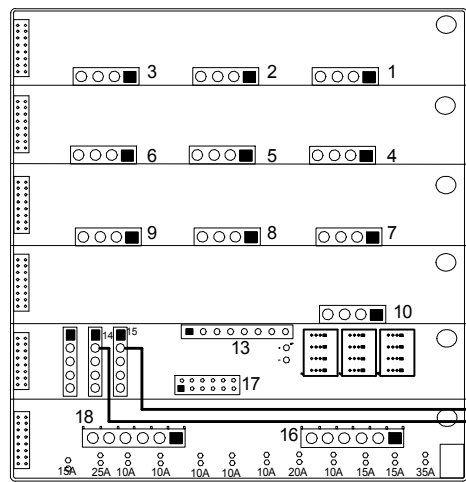
D/S FR SLIDE RET (PIN 1, CIRCUIT/LED 1)
 D/S FR SLIDE EXT (PIN 1, CIRCUIT/LED 2)
 P/S FR SLIDE RET (PIN 1, CIRCUIT/LED 3)
 P/S FR SLIDE EXT PIN 1, CIRCUIT/LED 4

P/S RR SLIDE EXT (PIN 2-4, LED 8)
 P/S RR SLIDE RET (PIN 2-3, LED 7)



G6 CHASSY PANEL

NOTE:
 PARK BRAKE AND IGNITION MUST BE "ON" FOR THE SLIDES TO OPERATE. HOWEVER, YOU MAY BY PASS THIS SAFETY FEATURE BY PRESSING THE "SLIDEOUTS READY" BUTTON ON THE DRIVERS OVERHEAD SWITCH PANEL. IN ORDER FOR THE SLIDES TO WORK, THE SLIDE OUTS READY BUTTON LED MUST BE WHITE.



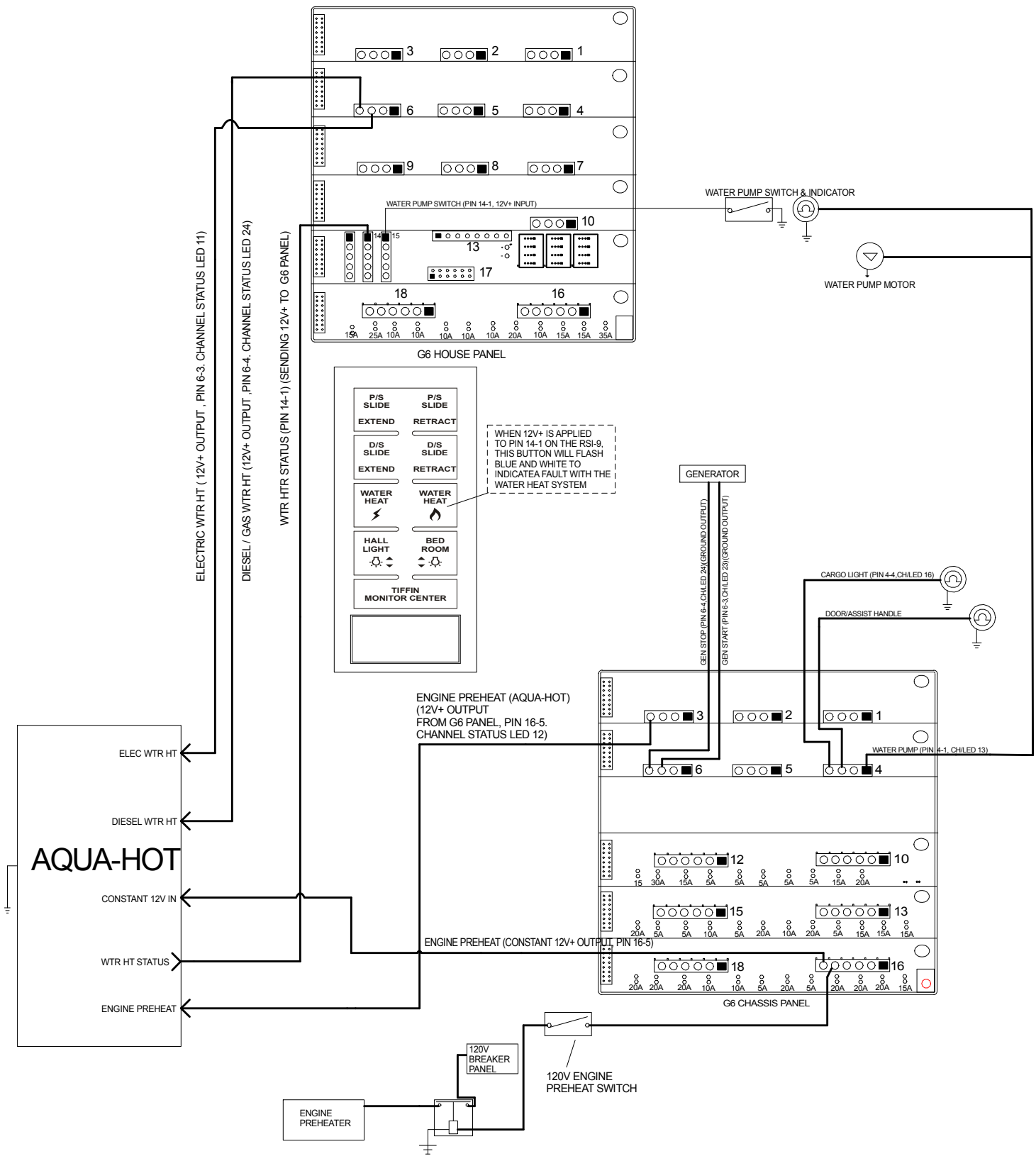
DRIVERS O/H SWITCH PANEL

PARK BRAKE INPUT PIN (15-2)
 IGNITION INPUT (PIN 14-2)

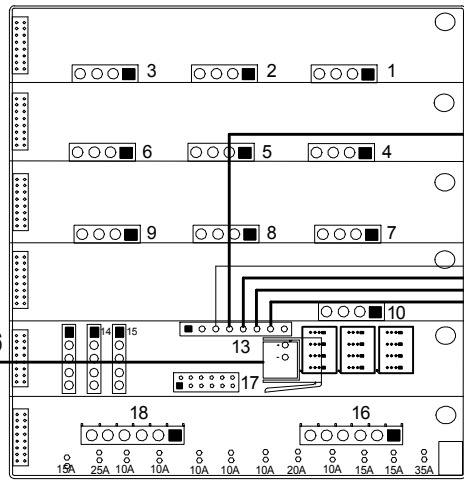
PARK BRAKE

IGNITION

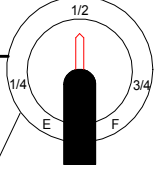
DESC.	FR / RR SLIDE CONTROL
DESIGN FOR:	TIFFIN BUS/PHTN
TYPE:	ELECTRICAL DRAWING
REV #	1v0
SPYDER CONTROLS CORP	NOV 03/2014



DESC.	AQUA-HOT & ENGINE HEAT SYSTEM, GEN, CARGO LT, WATER PUMP, DOOR-ASSIST HANDLE G6 HOUSE AND CHASSIS
DESIGN FOR:	TIFFIN BUS/PHTN TYPE: ELECTRICAL DRAWING
REV #	1v0
SPYDER CONTROLS CORP	NOV 03/2014

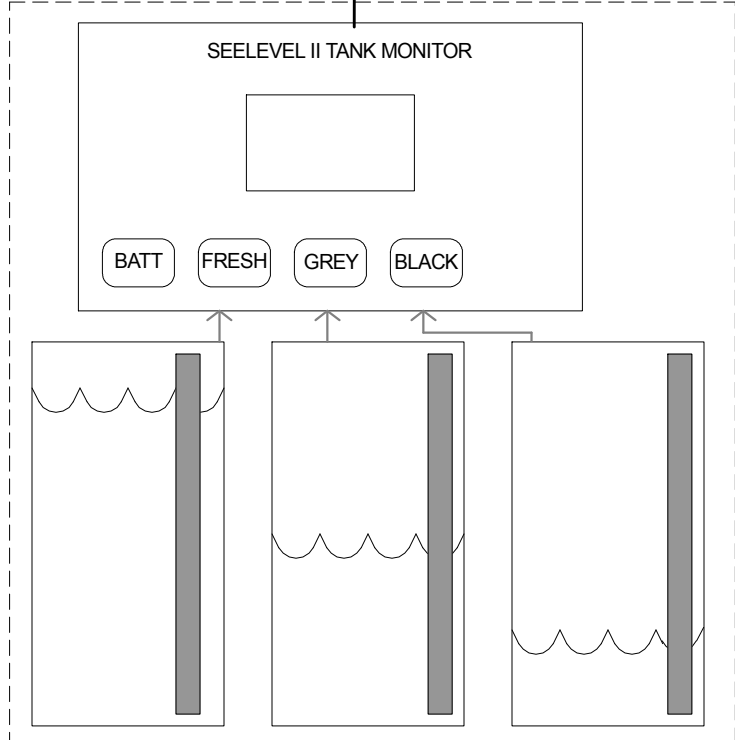


LPG (PIN 13-4)

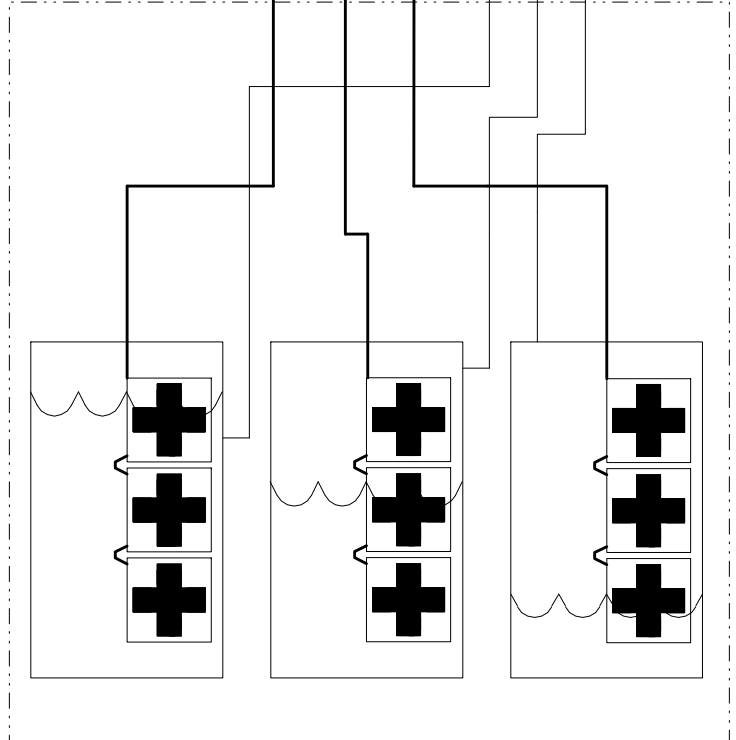


RVC INPUT TO THE G6

COMMON GND FROM G6 PANEL ONLY

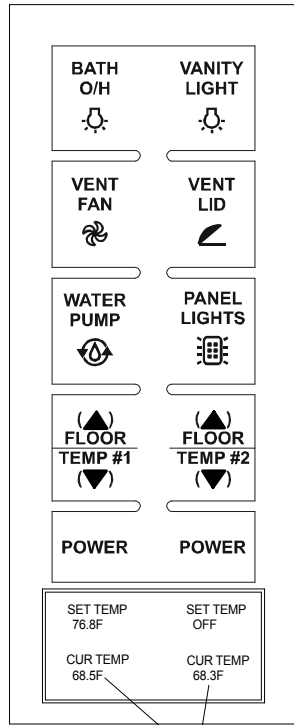


SEELEVEL II TANK MONITOR

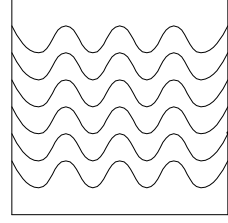


PHEATON, RED TANK MONITOR SYSTEM

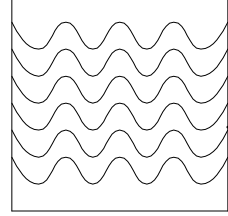
DESC.	TANK MONITORING SYSTEM
DESIGN FOR:	TIFFIN BUS/PHTN/RED TYPE: ELECTRICAL DRAWING
REV #	1v0
SPYDER CONTROLS CORP	NOV 03/2014



RR FLOOR HEAT MAT

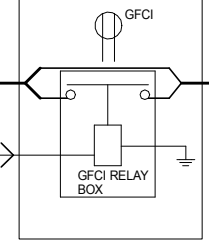


FR FLOOR HEAT MAT

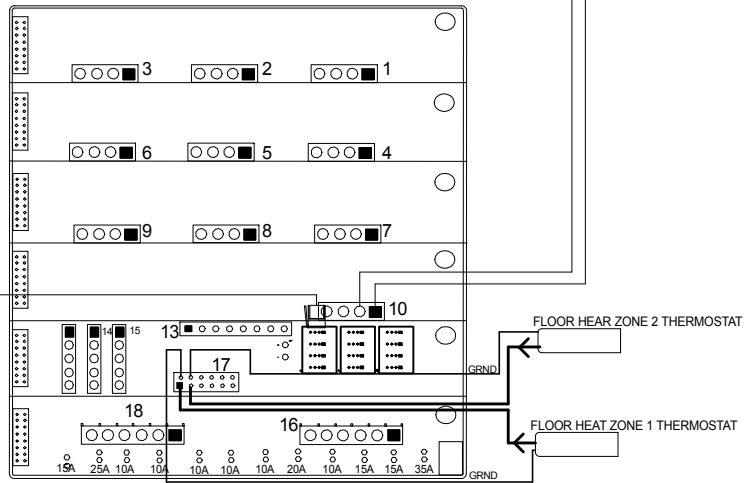
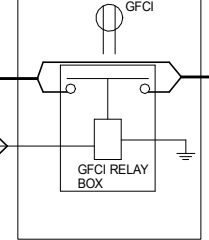


BREAKER PANEL

FLOOR HEAT TRIGGER - ZONE 2



FLOOR HEAT TRIGGER - ZONE 1



NOTE:
 IN RARE CASES, THE CURRENT TEMP MAY DISPLAY AN ERONEOUS TEMP INDICATION. HOWEVER, THIS FIGURE OFFERS IMPORTANT DIAGNOSTIC INFORMATION.

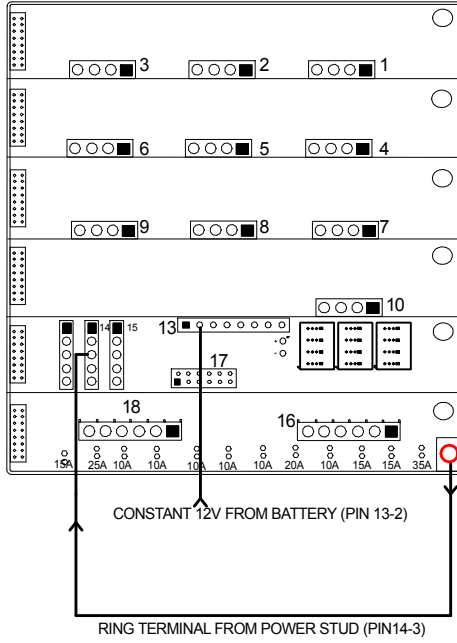
-OBSERVED READING OF -50F WITHIN AN APPROXIMATE RANGE +/- 50 DEGREES. INDICATES AN INCORRECTLY INSTALLED THERMISTER WIRE, BROKEN THERMISTER SENSOR/GROUND WIRES OR WIRES ARE NOT CONNECTED TO SPYDER CONTROL PANEL AS SHOWN IN THE DIAGRAM.

-OBSERVED READING OF +580F WITHIN AN APPROXIMATE RANGE +/- 50 DEGREES. INDICATES A SHORT BETWEEN THERMISTER SENSOR WIRE AND THERMISTER GROUND WIRE.

DESC. FLOOR HEAT ELECT. DRAWING

DESIGN FOR: TIFFIN BUS/PHTN | TYPE: ELECTRICAL DRAWING
 REV # | 1v0

SPYDER CONTROLS CORP | FEB 03/2015



DESC. BATTERY DISCONNECT	
DESIGN FOR: TIFFIN BUS/PHTN/RED	TYPE: ELECTRICAL DRAWING
REV # 1v0	
SPYDER CONTROLS CORP	DEC 09/2014