

**MAINTENANCE MANUAL
FUSE PANELS
19D902703G1 - G5**

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DESCRIPTION

Fuse Panels 19D902703G1, G3, G4 and G5 are required for operating up to 15 different fuse circuits. Fuse panels 19D902703G1, G3 and G4 have 15 fuse circuits each consisting of a 3 amp fuse and an LED. When ON, the LED indicates that voltage is present and the fuse is **not** blown. When the LED is OFF, it is an indication that voltage is not present or that the fuse is blown (refer to Schematic Diagram 19D902719). The input voltage is applied to a terminal of TB1. The ground side is connected to TB2. The input voltage is routed through a 3 amp fuse to a terminal of a 15-position

Molex connector (J1, J2 or J3). The ground side is also connected to a corresponding connector on the same Molex connector. Each Molex connector provides five (5) fused circuits.

Fuse panel 19D902703G5 has 15 dedicated fuse circuits, each consisting of a 3 amp fuse and an LED. When ON the LED indicates when voltage is present on the output (refer to Schematic Diagram 19D904016).

Each fuse circuit is shown in the following table.

Voltage Inputs	Ground Inputs	Circuit Numbers	Output Terminals		Output Voltage*
			Voltage	Gnd	
TB1-8	TB2-8	1	J1-1	J1-3	+13.8 Vdc
		2	J1-4	J1-6	+13.8 Vdc
TB1-7	TB2-7	3	J1-7	J1-9	+13.8 Vdc
		4	J1-10	J1-12	+13.8 Vdc
TB1-6	TB2-6	5	J1-13	J1-15	+13.8 Vdc
		6	J2-1	J2-3	+13.8 Vdc
TB1-5	TB2-5	7	J2-4	J2-6	+12 Vdc
		8	J2-7	J2-9	+12 Vdc
TB1-4	TB2-4	9	J2-10	J2-12	+12 Vdc
		10	J2-13	J2-15	+12 Vdc
TB1-3	TB2-3	11	J3-1	J3-3	+5 Vdc
		12	J3-4	J3-6	+5 Vdc
TB1-2	TB2-2	13	J3-7	J3-9	-12 Vdc
		14	J3-10	J3-12	-12 Vdc
TB1-1	TB2-1	15	J3-13	J3-15	-12 Vdc

*These voltages are dedicated voltages used with fuse panel 19D902703G5.

PARTS LIST

LBI-38913

FUSE PANELS
19D902703G1 - G5

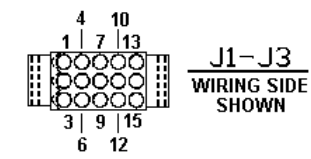
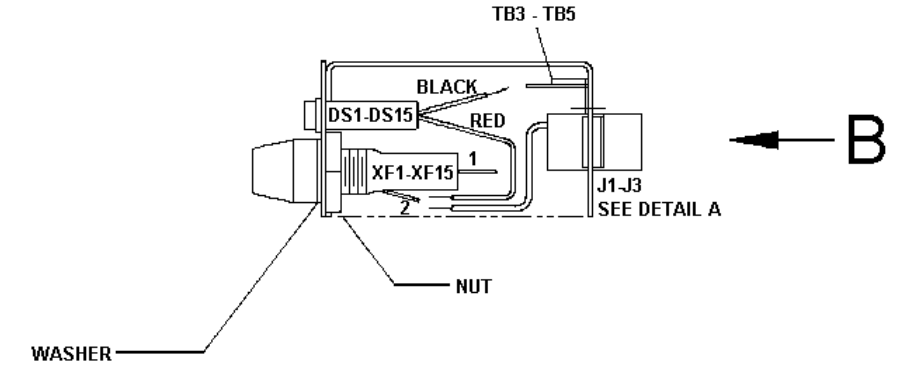
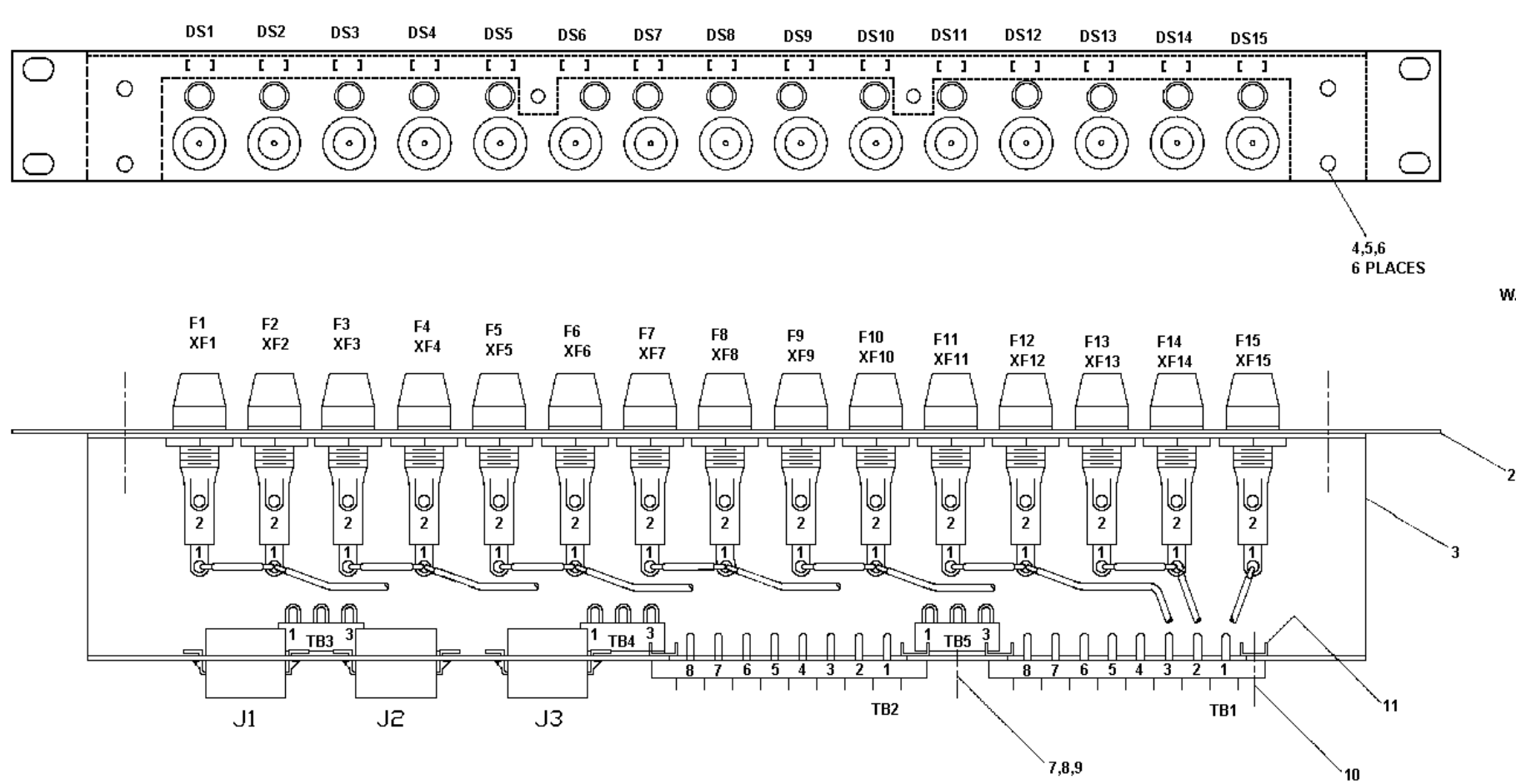
19D902703G1 - 3Amp - 15 Circuit Fuse Panel
19D902703G2 - Wire And Terminals For Group 1 Assembly
19D902703G3 - 15 Circuit US/EURO Fuse Panel (For US)
19D902703G4 - 15 Circuit US/EURO Fuse Panel (For Europe)
19D902703G5 - 15 Circuit US/EURO Fuse Panel (TX Simulcast)
Issue 1

SYMBOL	PART NUMBER	DESCRIPTION
		-----INDICATING DEVICES-----
DS1 thru DS15	19A149970P1	LMP CTG DIODE (Used in G1, G3, G4 and G5).
		----- FUSES -----
F1	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F1	19A134961P22	FZ CTG (Used in G4 and G5).
F2	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F2	19A134961P22	FZ CTG (Used in G4 and G5).
F3	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F3	19A134961P22	FZ CTG (Used in G4 and G5).
F4	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F4	19A134961P22	FZ CTG (Used in G4 and G5).
F5	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F5	19A134961P22	FZ CTG (Used in G4 and G5).
F6	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F6	19A134961P22	FZ CTG (Used in G4 and G5).
F7	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F7	19A134961P22	FZ CTG (Used in G4 and G5).
F8	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F8	19A134961P22	FZ CTG (Used in G4 and G5).
F9	19A134961P22	FZ CTG (Used in G4 and G5).
F10	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F10	19A134961P22	FZ CTG (Used in G4 and G5).

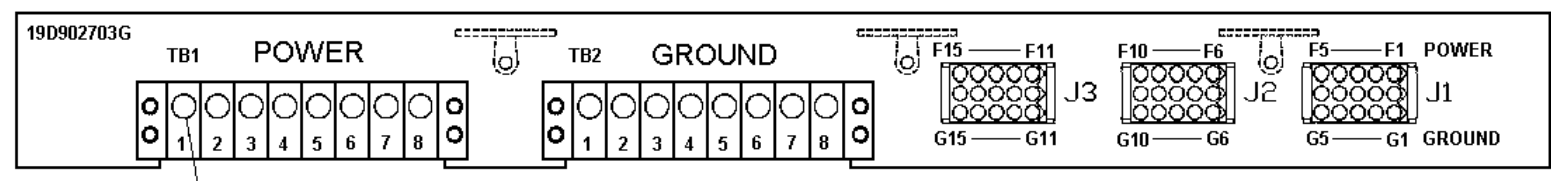
SYMBOL	PART NUMBER	DESCRIPTION
F11	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F11	19A134961P22	FZ CTG (Used in G4 and G5).
F12	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F12	19A134961P22	FZ CTG (Used in G4 and G5).
F13	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F13	19A134961P22	FZ CTG (Used in G4 and G5).
F14	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F14	19A134961P22	FZ CTG (Used in G4 and G5).
F15	1R16P6	Quick blowing: 3 amps at 250 v; sim to Littelfuse 312003 or Bussmann AGC-3. (Used in G1 and G3).
F15	19A134961P22	FZ CTG (Used in G4 and G5).
		----- JACKS -----
J1 thru J3	19B209288P5	Shell: 15-Position; sim to Molex 03-09-1151. (Used in G1 G3, G4 and G5).
		----- TERMINAL BOARDS -----
TB1 and TB2	19C301086P6	Terminal Strip: 8 contacts. (Used in G1, G3, G4 and G5).
TB3 thru TB5	7775500P7	Phenolic: 2 insulated, 1 ground terminal. (Used in G1, G3, G4 and G5).
		----- FUSE SOCKETS -----
XF1	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF2	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF3	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF3		Items 25, 26, 28 (Used in G3, G4 and G5).
XF4	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF5	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF6	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF7	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF8	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF9	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF10	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).

SYMBOL	PART NUMBER	DESCRIPTION
XF11	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF12	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF13	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF14	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
XF15	19B209005P2	Fuseholder: 15 amps at 250 v; sim to Littelfuse 342015. (Used in G1).
		----- MISCELLANEOUS -----
2	19D902702P1	CHASSIS (Used in G1, G3, G4 and G5).
3	19D902702P2	CHASSIS (Used in G1, G3, G4 and G5).
4	N80P15006B6	Machine screw, panhead: No. 8-32 x 3/8. (Used in G1, G3, G4 and G5).
5	N210P15B6	Nut, hex: No. 8-32. (Used in G1, G3, G4 and G5).
6	N403P16B6	Lockwasher, internal tooth: No. 8. (Used in G1, G3, G4 and G5).
7	N80P13005B6	Machine screw, panhead: No. 6-32 x 5/16. (Used in G1, G3, G4 and G5).
8	7141225P3	Hex Nut: No. 6-32. (Used in G1, G3, G4, and G5).
9	N404P13B6	Lockwasher, internal tooth: No. 6. (Used in G1, G3, G4 and G5).
10	N80P13007B6	Machine screw, panhead: No. 6-32 x 7/16. (Used in G1, G3 G4 and G5).
11	7160508P2	Nut, sheet spring: sim to Tinnerman C1356-632-24. (Used in G1, G3, G4 and G5).
12	19B209288P1	Contact, female: 14-20 AWG; sim to Molex 02-09-1101.
16	19D902703G2	FZ PNL (Used in G1, G3, G4 and G5).
17	19A116850P2	Wire.
18	19A116850P10	Wire, Strand.
19	19A701278P5	Insulative sleeving.
20	19A700134P10	Wire, Solid.
21	19A700134P12	Wire, Solid.
22	N80P13004B6	Screw, machine: Pan head; No. 6-32 x 1/4". (Used in G1, G3, G4 and G5).
23	19A115870P2	Wire, Strand.
24	19J706152P5	Retainer strap: sim to Panduit Corp.SST-1. (Used in G1, G3, G4 and G5).
25	19A134796P1	Fuseholder: sim to Schurter 031.1657.(Used in G3, G4 and G5).
26	19A134796P3	Fuse carrier, grey cap: sim to Schurter 031.1666 (Used in G3).
27	19A134796P4	Fuseholder: sim to Schurter 031.1663.(Used in G4 and G5).
28	19A134796P5	Nut: sim to Schurter 583.0016. (Used in G3, G4 and G5).

*COMPONENTS, ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



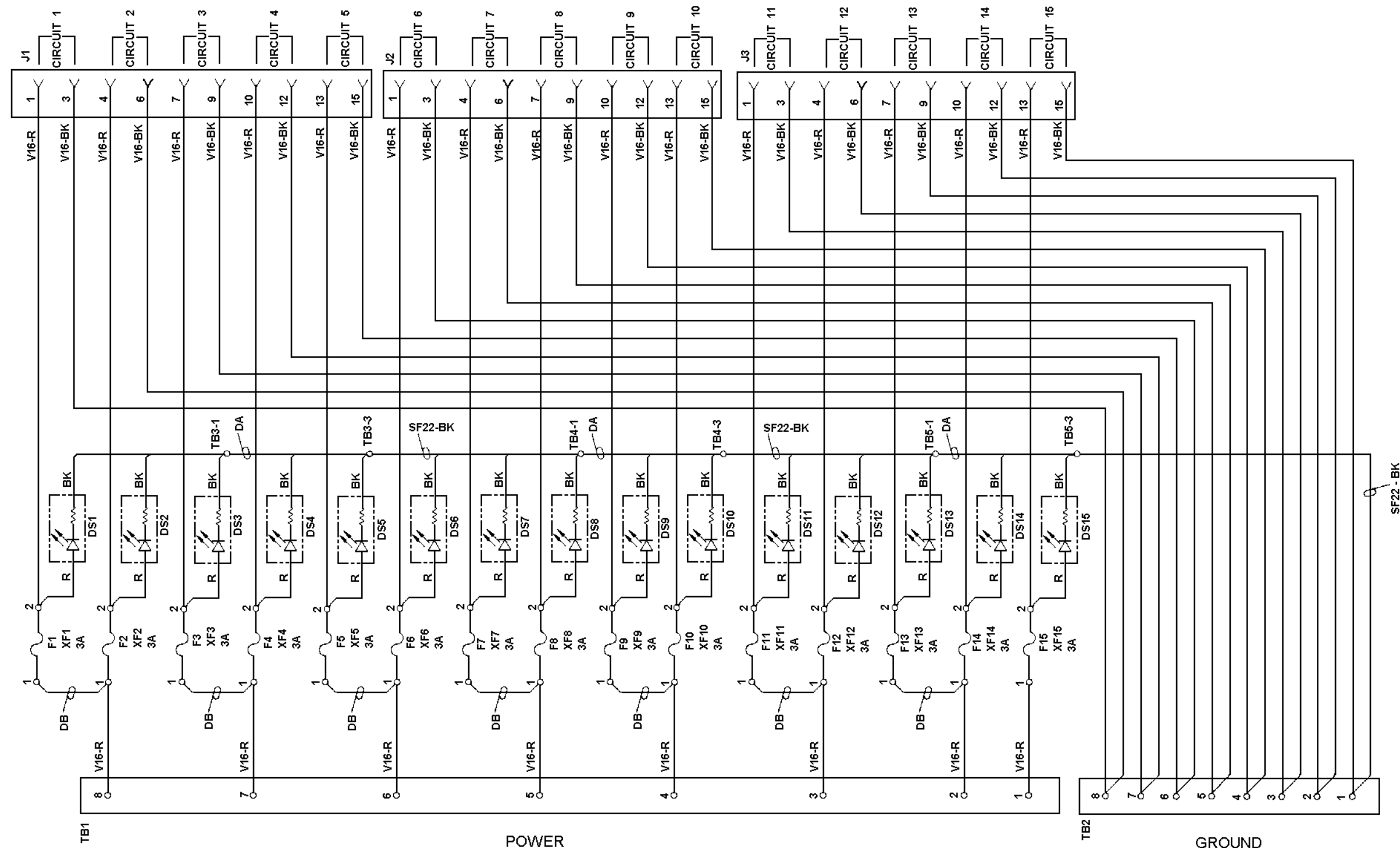
DETAIL A
TYPICAL 3 PLACES



21
16 PLACES AT TB1 & TB2
VIEW AT 'B'

FUSE PANEL
19D902703G1 -G5

(19D902703, Rev. 2)



POWER

GROUND

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

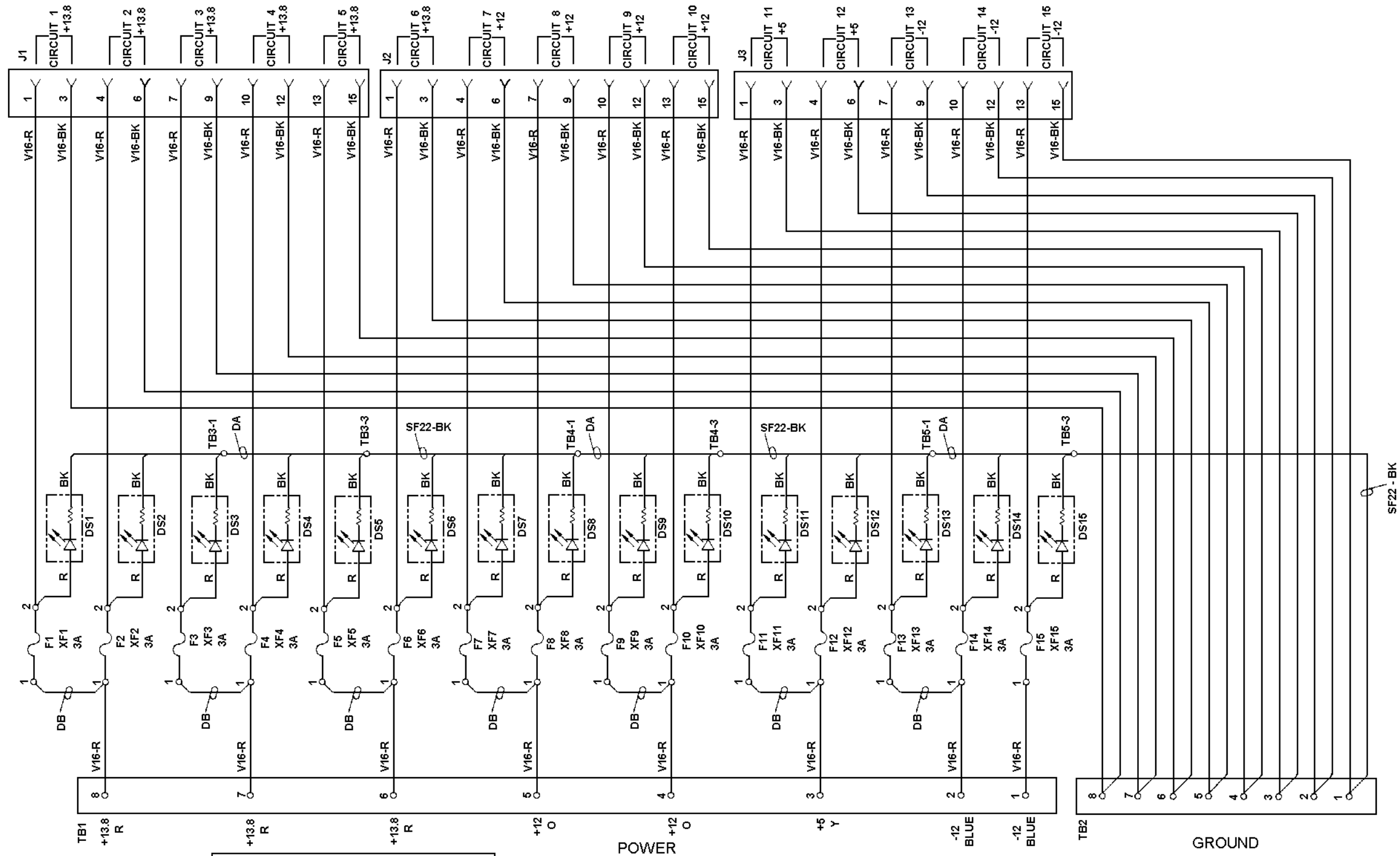
SEE APPLICABLE PRODUCTION CHANGE SHEETS IN INSTRUCTION BOOK SECTION DEALING WITH THIS UNIT, FOR DESCRIPTION OF CHANGES UNDER EACH REVISION LETTER.

THIS WIRING DIAGRAM APPLIES TO

MODEL NUMBER	REV LETTER
19D902703 G1, G3 & G4	

FUSE PANEL
19D902703G1, G3 & G4

(19D902719, Rev. 1)



SEE APPLICABLE PRODUCTION CHANGE SHEETS IN INSTRUCTION BOOK SECTION DEALING WITH THIS UNIT, FOR DESCRIPTION OF CHANGES UNDER EACH REVISION LETTER.

THIS WIRING DIAGRAM APPLIES TO

MODEL NUMBER	REV LETTER
19D902703G5	

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

FUSE PANEL
19D902703G5

(19D904016, Rev. 0)

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