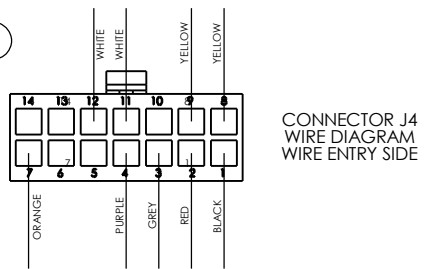
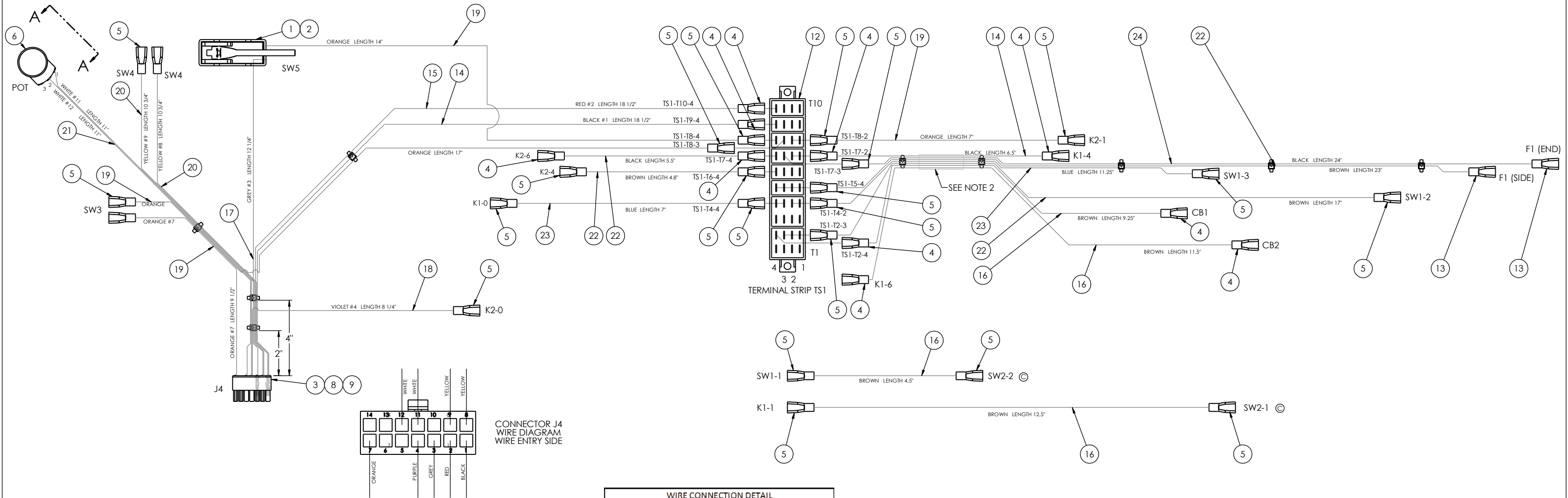


SW5 WIRE CONNECTION DETAIL

SECTION A-A



| WIRE CONNECTION DETAIL |        |        |          |              |
|------------------------|--------|--------|----------|--------------|
| COLOR                  | GAGE   | LENGTH | FROM     | TO           |
| BLACK                  | 16 AWG | 18.5"  | J4-1     | TS1-T9-4     |
| RED                    | 16 AWG | 18.5"  | J4-2     | TS1-T10-4    |
| GREY                   | 18 AWG | 12.25" | J4-3     | SW5-2        |
| VIOLET                 | 18 AWG | 8.25"  | J4-4     | K2-0         |
| ORANGE                 | 18 AWG | 9.5"   | J4-7     | SW3          |
| YELLOW                 | 18 AWG | 10.75" | J4-8     | SW4          |
| YELLOW                 | 18 AWG | 10.75" | J4-9     | SW4          |
| WHITE                  | 18 AWG | 11"    | J4-11    | POT (SOLDER) |
| WHITE                  | 18 AWG | 11"    | J4-12    | POT (SOLDER) |
| ORANGE                 | 18 AWG | 17"    | TS1-T8-3 | SW3          |
| ORANGE                 | 18 AWG | 14"    | TS1-T8-4 | SW5-1        |
| BLACK                  | 18 AWG | 5.5"   | TS1-T7-4 | K2-6         |
| BROWN                  | 18 AWG | 4.8"   | TS1-T6-4 | K2-4         |
| BLUE                   | 18 AWG | 7"     | TS1-T4-4 | K1-0         |
| ORANGE                 | 18 AWG | 7"     | TS1-T8-2 | K2-1         |
| BLACK                  | 16 AWG | 6.5"   | TS1-T7-2 | K1-4         |
| BLACK                  | 18 AWG | 24"    | TS1-T7-3 | F1 (END)     |
| BROWN                  | 18 AWG | 23"    | TS1-T5-4 | F1 (SIDE)    |
| BLUE                   | 18 AWG | 11.25" | TS1-T4-2 | SW1-3        |
| BROWN                  | 18 AWG | 17"    | TS1-T2-3 | SW1-2        |
| BROWN                  | 16 AWG | 9.25"  | TS1-T2-4 | CB1          |
| BROWN                  | 16 AWG | 4.5"   | SW1-1    | SW2-2        |
| BROWN                  | 16 AWG | 11.5"  | K1-6     | CB2          |
| BROWN                  | 16 AWG | 12.5"  | K1-1     | SW2-1        |

- NOTES:
- ALL MARKING TEXT WILL BE A MINIMUM OF .2 TALL.
  - PERMANENTLY MARK CONNECTOR WITH PART NUMBER, MANUFACTURER AND DATE CODE.
  - WIRE TIES TO BE SECURE AROUND WIRES WHERE SHOWN. WIRE TIES SHOULD BE KEPT A MINIMUM OF 3" FROM ANY END CONNECTION UNLESS OTHERWISE SPECIFIED.
  - PART NUMBER LABEL CAN BE USED TO REPLACE 1 WIRE TIE EXCEPT WHERE INDICATED.
  - LIST OF ITEMS WITHIN HARNESS AND TERMINATION TABLE LOCATED ABOVE.
  - ASSEMBLY MUST BE ROHS COMPLIANT.
  - MARK REFERENCE DESIGNATORS SHOWN WITH THE FOLLOWING SYMBOL ON HOUSINGS SHOWN WITH THE FOLLOWING SYMBOL. TERMINATION LABELS TO BE PLACED APPROXIMATELY 1" FROM THE CONNECTOR WHERE HOUSINGS CAN BE MARKED.

| ITEM NO. | PART NO.   | REV. | QTY.  | MFG PART NO     | MFG                   | DESCRIPTION                                  |
|----------|------------|------|-------|-----------------|-----------------------|--|
| 1        | 4000113    |      | 1     | AP-B            | OMRON                 | SWITCH                                       |
| 2        | 5308214    | C    | 1     | A-20GV-B7-K     | OMRON                 | LIMIT, W/ CONTROL BAR,                       |
| 3        | 81712145RH | A    | 1     | 39-01-2145      | MOLEX                 | RECEPTACLE; 14 POSITION; DUAL                |
| 4        | 4000318    | A    | 10    | DPF14-250FIB-3K | PANDUIT               | FEMALE DISC .25X.03,16-14AWG                 |
| 5        | 4000098    | A    | 23    | DPF18-250FIB    | PANDUIT               | FEMALE DISC .25X.03,22-18AWG,INSULATED       |
| 6        | 82710106RH | A    | 1     | 313-2441F-1M    | ALPHA                 | POTENTIOMETER; 5G                            |
| 7        | 01724      | A    | 2     | PNF18-6FN-3K    | PANDUIT               | FORK; #8; 22-18 AWG                          |
| 8        | 80300079RH | A    | 2     | 39-00-0079      | MOLEX                 | CRIMP; MINI FIT; 16 AWG                      |
| 9        | 80300207RH | A    | 7     | 39-00-0213      | MOLEX                 | CRIMP; MINI FIT; 24-18 AWG                   |
| 10       | 01698      | B    | 9     | 08-432          | DENNISON              | CABLE TIE; 4" LENGTH                         |
| 11       | 02353      | 0    | 2     | VARIOUS         | VARIOUS               | PVC SHRINKABLE; 1/8" DIA; BLACK; 1-1/4" LONG |
| 12       | 80307412RH | A    | 1     | FS10-J-93       | EAGLE CONNECTOR CORP. | TERMINAL BLOCK; F SERIES; 10 POS.            |
| 13       | 15698      | A    | 2     | DPF14-206FIB-3K | PANDUIT               | FEMALE DISC.; .187 X .02                     |
| 14       | 88066010RH |      | 25    | VARIOUS         | VARIOUS               | WIRE; 16 AWG; UL1061; BLACK                  |
| 15       | 88066002RH |      | 18.5  | VARIOUS         | VARIOUS               | WIRE; 16 AWG; UL1061; RED                    |
| 16       | 88066001RH |      | 37.75 | VARIOUS         | VARIOUS               | WIRE; 16 AWG; UL1061; BROWN                  |
| 17       | 88064876RH |      | 12.25 | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; GREY                   |
| 18       | 88064007RH |      | 8.25  | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; VIOLET                 |
| 19       | 88064003RH |      | 47.5  | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; ORANGE                 |
| 20       | 88064004RH |      | 21.5  | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; YELLOW                 |
| 21       | 88064009RH |      | 22    | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; WHITE                  |
| 22       | 88064001RH |      | 50.3  | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; STRANDED; BROWN        |
| 23       | 88064006RH |      | 18.25 | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; STRANDED; BLUE         |
| 24       | 88064010RH |      | 24    | VARIOUS         | VARIOUS               | WIRE; 18 AWG; UL1061; STRANDED; BLACK        |

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PART NAME: **HARNESS WIRING; COMPLETE 5G**

|                                       |                      |                  |                         |
|---------------------------------------|----------------------|------------------|-------------------------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED | DO NOT SCALE DRAWING | SCALE: 1:1.5     | DWG SIZE: D             |
| XX ±.030                              | DRAWN: SBrathauer    | DATE: 11/7/2012  | SHT: 1 OF 1             |
| XX ±.015                              | CHK: SBrathauer      | DATE: 12/31/1899 | PART NUMBER: 87635001RH |
| XXX ±.005                             | APPV: SBrathauer     | DATE: 6/11/2013  |                         |