**ELECTRICAL SYSTEM NOTES**

- Use MCR-9155 SERIES MICROFUSE AIRCRAFT WIRE. CONTACT VAN'S ABOUT USING OTHER EQUAL.
- Use MIL-STD-274C 0.032" INSULATED WIRE OR MIL-STD-2750A 0.015" INSULATED WIRE FOR MID RACE. REMEMBER TO LAVE WIRE TO FIT FLA-650007 SOCKETS OR SLIP ON 0.005" Tinned COPPER FERRULES TO THE END BEFORE CRIMPING.
- Use ONLY PVC MEDIUM-SHALE WIRE CONNECTORS (WITH THE EXCEPTION OF Solder Connectors)
- WARNING: ALL 3-CONDUCTOR JACKETED NON-SHIELDED WIRE MAY BE REPLACED WITH TWISTED WIRES OF THE SAME AWG SIZE AND THE SAME WIRE COLOR.
- Harnesses are to be bundled with LACING CHORD, WITH THE EXCEPTION OF BLUE TIE-WRAPS USED AT BULKHEAD STATIONS.
- Do not cover wires with WIRE NET.
- Crimped terminals are to be individually pulled. (Use ONLY NOR-COMP BACKSHELLS ON D-SUB CONNECTORS (WITH THE EXCEPTION OF 50-PIN CONNECTORS)
- Label the flying lead of each wire with the truncated nomencalature and wire number.
- Use MIL-I-23053 Heatshrink. Contact VAN'S ABOUT USING OTHER EQUIV.
- Use M22759/16 OR M27500 Tefzel Aircraft Wire. Contact VAN'S ABOUT USING OTHER EQUIV.

**ELECTRICAL SYSTEM TEST PROCEDURES**

**Avionics Group**

1. Check PIG & MF Power 1 & 2
2. Complete operation and parameter settings on the Master Flight Display
3. Complete TX, RX, & SENDER operation
4. Complete operation of TX, RX, & SENDER on the Master Flight Display
5. Check GND function
6. Complete operation of TX, RX, & SENDER on the Master Flight Display
7. Complete operation of TX, RX, & SENDER on the Master Flight Display
8. Complete operation of TX, RX, & SENDER on the Master Flight Display

**Audio Group**

1. Configure STN-6000 Internal Power
2. Complete operation on TX, RX, & SENDER
3. Complete operation of TX, RX, & SENDER
4. Complete operation of TX, RX, & SENDER
5. Complete operation of TX, RX, & SENDER
6. Complete operation of TX, RX, & SENDER
7. Complete operation of TX, RX, & SENDER
8. Complete operation of TX, RX, & SENDER

**Contact Group**

1. Complete operation on TX, RX, & SENDER
2. Complete operation of TX, RX, & SENDER
3. Complete operation of TX, RX, & SENDER
4. Complete operation of TX, RX, & SENDER
5. Complete operation of TX, RX, & SENDER
6. Complete operation of TX, RX, & SENDER
7. Complete operation of TX, RX, & SENDER
8. Complete operation of TX, RX, & SENDER

**Programming**

1. Check PIG & MF Power 1 & 2
2. Complete operation and parameter settings on the Master Flight Display
3. Complete TX, RX, & SENDER operation
4. Complete operation of TX, RX, & SENDER on the Master Flight Display
5. Check GND function
6. Complete operation of TX, RX, & SENDER on the Master Flight Display
7. Complete operation of TX, RX, & SENDER on the Master Flight Display
8. Complete operation of TX, RX, & SENDER on the Master Flight Display

**Radio Group**

1. Configure STN-6000 Internal Power
2. Complete operation on TX, RX, & SENDER
3. Complete operation of TX, RX, & SENDER
4. Complete operation of TX, RX, & SENDER
5. Complete operation of TX, RX, & SENDER
6. Complete operation of TX, RX, & SENDER
7. Complete operation of TX, RX, & SENDER
8. Complete operation of TX, RX, & SENDER

**Turned on**

- Check for power output at USB connectors / Power Outlet
- Check function of AP disconnect switch near throttle.
- Check for power output at USB connectors / Power Outlet
- Check function of AP disconnect switch near throttle.

**Wiring harness**

- Check pilot TX button
- Check Co-Pilot TX button
- Check pilot mic jack for Xmit
- Check Co-Pilot headset jack
- Check pilot AP Disconnect switch
- Check Co-Pilot AP Disconnect switch
- Check Co-Pilot trim buttons (both directions)
- Check Co-Pilot trim buttons (both directions)
- Check pilot AP Disconnect switch
- Check Co-Pilot AP Disconnect switch

**Day Mode Operation**

- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire

**Night Mode Operation**

- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire
- X (Number of wires) Multi conductor wire

**Electrical System Notes**

- Adjust solder splice / ring terminal size as required to accommodate desired wire gauge(s). Maintain ring terminal stud/tab size.
- All 3-conductor jacketed non-shielded wire may be replaced with twisted wires of the same AWG size and the same wire color.
- Harnesses are to be bundled with lacing chord, with the exception of blue tie-wraps used at bulkhead stations.
- Do not cover wires with wire net.
- Crimped terminals are to be individually pulled.
- Crimped Molex, Tyco, and AMP terminals are to be crimped with the manufacturer's recommended crimping tool.
- Label the flying lead of each wire with the truncated nomencalature and wire number.
- Use MIL-I-23053 Heatshrink. Contact VAN'S about using other equiv.
- Use M22759/16 or M27500 Tefzel Aircraft Wire. Contact VAN'S about using other equiv.
- Use only nor-comp backsheehs on D-SUB connectors (with the exception of 50-pin connectors)
- Label the flying lead of each wire with the truncated nomencalature and wire number.
- Use MIL-I-23053 Heatshrink. Contact VAN'S about using other equiv.
(ADS-B) RS-232 OUT 3
(ADS-B) RS-232 IN 3
CONFIG MODULE CLOCK
CONFIG MODULE GROUND
CONFIG MODULE POWER
CONFIG MODULE DATA
STEREO AUDIO OUT RIGHT
STEREO AUDIO OUT LEFT
GDU 460
CAN BUS HI
CAN BUS LO
CAN BUS TERMINATION
RS-232 IN 2
SIGNAL GND
POWER GROUND
AIRCRAFT POWER 1
CDU SYSTEM ID PROGRAM* 1
SIGNAL GROUND
RS-232 OUT 2
(GTN 650Xi CONNEXT) RS-232 OUT 1
(GTN 650Xi CONNEXT) RS-232 IN 1
14V LIGHTING BUS HI
14V LIGHTING BUS LO
MONO OUT AUDIO HI
MONO OUT AUDIO LO
14401 NE KEIL RD. NE
AURORA, OR
97002 USA
DATE DRAWN:
UNITS:
PAGE: 2 OF 11
REV
REV
C-SIZE ORIGINAL
SCALE: (UNLESS OTHERWISE SPECIFIED)
TOLERANCES:
PATH\FILENAME: