### Electrical Test Procedure

1. **Check PFD & MFD**
   - Power On
   - Verify display (PFD and MFD) comes on at power on
   - Power off for approximately 30 seconds and power on again
   - Verify display (PFD and MFD) comes on at power on

2. **Check Function of AP Disconnect Switch**
   - Near Throttle
   - Verify proper trim direction movement on servo with input

3. **Verify Proper Trim Direction Movement**
   - Screen Indicator
   - Servo with Input

4. **Check Pilot Headset Jack**
5. **Check Co-Pilot Headset Jack**
6. **Check Co-Pilot Mic Jack for Xmit**
7. **Check Pilot Mic Jack for Xmit**

8. **Check PFD & MFD Recognize All LRU’s**
9. **Check X Pndr Will Transmit**
10. **Check Dimmer**
    - Note PCB portion will be checked during AV-60000 Check
11. **Check Canopy Latch Switch**
12. **Check Flap Motor Function Both Directions**
13. **Check for Power Output at USB Connectors / Power Outlet**

### Software System 2.60

- Low Power Consumption
- Software Version 2.60

### Savannah System

- Electric System
- Aviation System
- Electrical System

### Airplane Setup

- Primary systems: PFD, MFD, AFCS, EFIS, etc.
- Secondary systems: TCAS, TCRA, TCRAA, etc.

### Wiring Diagram

- Circuit Letter Function
- Wiring Connection
- Circuit Description
- Circuit Terminals

### Wire Table

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Wire Size</th>
<th>Wire Type</th>
<th>Wire Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>22 AWG</td>
<td>SHIELDED</td>
<td>400V MAX</td>
</tr>
<tr>
<td>GREEN</td>
<td>18 AWG</td>
<td>STRIPED</td>
<td>100V MAX</td>
</tr>
<tr>
<td>BLUE</td>
<td>14 AWG</td>
<td>STRIPED</td>
<td>PCB TRACE</td>
</tr>
<tr>
<td>YELLOW</td>
<td>16 AWG</td>
<td>STRIPED</td>
<td>POWER OPTIONS</td>
</tr>
<tr>
<td>WHITE</td>
<td>18 AWG</td>
<td>STRIPED</td>
<td>GND</td>
</tr>
</tbody>
</table>

### Notes

- Use MIL-I-23053 heatshrink. Contact Van’s about using other equivalents.
- Use MIL-D-26018/12-2 connectors for MIL-M-17434D or equivalent.
- Use MIL-D-26018/12-2 connectors for MIL-M-17434D or equivalent.
VAN'S AIRCRAFT, INC.

ROTAX 912iS G3X
ELECTRICAL SYSTEM

WH-00134-1

PILOT STICK GRIP

LEFT WING CONNECTOR

CO-PILOT STICK GRIP

RIGHT WING CONNECTOR

THESE COMPONENTS NOT INCLUDED IN AVIONICS KIT, NOR PART OF THE
WH-00134-1. SEE WH-00032 AND WH-00033 RV-12iS WING HARNESS DRAWINGS.
**AUTOPilot**

**Pitch Servo**

**Roll Servo**

**WAAs Position**

**Magnetometer**

**Trim Motor**

These components not included in avionics kit, nor part of the WH-00136
WARN LAMP A
WHT/GRN
35
22 K7007

SUPP WARN LAMP A
GRN
35
22 K7006

WARN LAMP B
WHT/BLU
35
22 K7005

SUPP WARN LAMP B
BLU
35
22 K7004

LANE SEL SW A 2
WHT/YEL
22 K7003

LANE SEL SW A 1
YEL
35
22 K7002

LANE SEL SW B 2
WHT/BLK
35
22 K7001

LANE SEL SW B 1
WHT
35
22 K7000

IGNITION MODULE

SUPP START SWITCH
RED
35
22 K7009

START BUTTON BYPASS
GRN/RED
22
9

CONN STARTER RELAY SW
22 K7011

FUSSED START POWER FUSED START POWER
22 E7241 GRN 3

HIC CONNECTOR B
HIC CONNECTOR

POWER MODULE

FUEL PUMP SWITCHES

FUEL PUMP 1 SWITCH
FUEL PUMP 2 SWITCH
FUEL PUMP 1
FUEL PUMP 2

GND FUEL PUMP 1
FUE LPUMP 1
CAN GND 1 A
CAN LO 1 A
CAN HI 1 A

GND FUEL PUMP 2
FUE LPUMP 2
CAN GND 2 B
CAN LO 2 B
CAN HI 2 B

GND FUEL PUMP 2 CAN GND 2 B CAN LO 2 B CAN HI 2 B

WARN LAMP B
WH-00134-1 WH-00134-1 7

WARN LAMP A
WH-00134-1 WH-00134-1 5

ES-205208-1 (MALE)
5
20

IF SYSTEM

ROTAX 912iS G3X

VAN'S AIRCRAFT, INC.
AURORA, OR
14401 NE KEIL RD. NE

C-SIZE ORIGINAL
NONE
9 OF 11
PAGE:
SCALE:
TOLERANCES:

INCHES

WH-00134-1

SEE PAGE 1

ROTAX 912iS G3X
ELECTRICAL SYSTEM

WH-00134-1

VANS AIRCRAFT, INC. 14401 NE KEIL RD.
AURORA, OR 97002 USA

DATE DRAWN: 6/11/2018
DRAWN BY: T. DE MAN

DESCRIPTION APPROVED DATE
REV
