

## C5000 Troubleshooting Checklist

December 21,2000

Note: If a defective Controller is suspected, try resetting the Controller. To accomplish this: Power the Controller off; wait 5 seconds; power the Controller on.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
1. No power to the Controller.	<ol style="list-style-type: none"> <li>1. Controller not turned on.</li> <li>2. Controller power supply not plugged into wall.</li> <li>3. Controller power supply not plugged into controller.</li> <li>4. Wall outlet not powered.</li> <li>5. Local power outage.</li> <li>6. Power supply is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn Controller power switch to ON.</li> <li>2. Plug power supply into powered electrical wall outlet.</li> <li>3. Plug power supply output into Controller.</li> <li>4. Test outlet, check circuit breaker.</li> <li>5. Grab a deck of cards.</li> <li>6. Test supply, replace if necessary.</li> </ol>
2. No power to the Selector.	<ol style="list-style-type: none"> <li>1. Selector not turned on.</li> <li>2. Controller has no power.</li> <li>3. RS-485 cable is not connected to the Controller.</li> <li>4. RS-485 cable is incorrectly wired.</li> <li>5. Selector power supply (if used) is defective.</li> <li>6. Selector is defective.</li> <li>7. Controller is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn Selector power switch to ON.</li> <li>2. Refer to problem #1.</li> <li>3. Make sure the RS-485 cable eventually connects to the Controller.</li> <li>4. Re-wire the RS-485 cable: 1) +6.5V, 2) RS485 +, 3) RS485 -, 4) Common.</li> <li>5. Test power supply, replace if necessary.</li> <li>6. Repair Selector.</li> <li>7. Repair Controller.</li> </ol>
3. Selector STANDBY light flashes.	<ol style="list-style-type: none"> <li>1. RS-485 cable is incorrectly wired. (Check Them All!)</li> <li>2. Selector is defective.</li> <li>3. Controller is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-wire the RS-485 cable: 1) +6.5V, 2) RS485 +, 3) RS485 -, 4) Common.</li> <li>2. Repair Selector.</li> <li>3. Repair Controller.</li> </ol>
4. Selector keypad does not respond or acts erratically.	<ol style="list-style-type: none"> <li>1. Controller not turned on.</li> <li>2. Selector not turned on.</li> <li>3. STANDBY light is flashing.</li> <li>4. Selector is not properly programmed.</li> <li>5. Selector keypad is defective (Check ribbon connector crimp).</li> <li>6. Selector is defective.</li> <li>7. Controller is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn Controller power switch to ON</li> <li>2. Turn Selector power switch to ON.</li> <li>3. Refer to problem #3.</li> <li>4. Check for proper channel and confirm that all Selectors have a unique ID #.</li> <li>5. Replace keypad.</li> <li>6. Repair Selector.</li> <li>7. Repair Controller.</li> </ol>
5. No outbound audio from Selector.	<ol style="list-style-type: none"> <li>1. STANDBY light is flashing.</li> <li>2. A station is not selected.</li> <li>3. TALK key is not pressed.</li> <li>4. VOX (if used) is not correctly adjusted.</li> <li>5. Channel A or B volume is set too low.</li> <li>6. Selector not programmed correctly for its audio wiring.</li> <li>7. Selector not wired correctly for its channel programming.</li> <li>8. There is no speaker wired to the Controller at the station selected.</li> <li>9. Microphone is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refer to problem #3.</li> <li>2. Press a valid station key.</li> <li>3. Press and hold TALK key, then talk.</li> <li>4. Rotate Left the INCREASE VOX SENSITIVITY on Selector bottom.</li> <li>5. Adjust TALK A and TALK B pots in Controller (Turn clockwise).</li> <li>6. Confirm that Selector channel matches audio port on Controller.</li> <li>7. Confirm that audio port on Controller matches Selector channel and wiring.</li> <li>8. Confirm that a working speaker is wired to the Controller at the station selected.</li> </ol>

	<ul style="list-style-type: none"> <li>10. Selector is defective.</li> <li>11. Controller is defective.</li> </ul>	<ul style="list-style-type: none"> <li>9. Replace microphone.</li> <li>10. Repair Selector.</li> <li>11. Repair Controller.</li> </ul>
6. No inbound audio to Selector.	<ul style="list-style-type: none"> <li>1. STANDBY light is flashing.</li> <li>2. A station is not selected.</li> <li>3. The TALK key is pressed.</li> <li>4. VOX (if used) is not correctly adjusted.</li> <li>5. Selector volume is too low.</li> <li>6. Selector not programmed correctly for its audio wiring.</li> <li>7. Selector not wired correctly for its channel programming.</li> <li>8. There is no speaker wired to the Controller at the station selected.</li> <li>9. Selector speaker is defective.</li> <li>10. Selector is defective.</li> <li>11. Controller is defective.</li> </ul>	<ul style="list-style-type: none"> <li>1. Refer to problem #3.</li> <li>2. Press a valid station key.</li> <li>3. Release the TALK key to listen.</li> <li>4. Rotate Right the INCREASE VOX SENSITIVITY on Selector bottom.</li> <li>5. Rotate Left Selector Volume pot.</li> <li>6. Confirm that Selector channel matches audio port on Controller.</li> <li>7. Confirm that audio port on Controller matches Selector channel and wiring.</li> <li>8. Confirm that a working speaker is wired to the Controller at the station selected.</li> <li>9. Replace Selector speaker.</li> <li>10. Repair Selector.</li> <li>11. Repair Controller.</li> </ul>
7. No outbound audio from Wireless base.	<ul style="list-style-type: none"> <li>1. Wireless unit is not on.</li> <li>2. Wireless base is not on.</li> <li>3. Wireless unit not programmed to work with its base.</li> <li>4. A station is not selected.</li> <li>5. Wireless TALK key is not pressed.</li> <li>6. The wireless MENU SIGN AUDIO LEVEL control is too low.</li> <li>7. Wireless base cable to the Controller is incorrectly wired.</li> <li>8. There is no speaker wired to the Controller at the station selected.</li> <li>9. Wireless unit is defective.</li> <li>10. Wireless base is defective.</li> <li>11. Controller is defective.</li> </ul>	<ul style="list-style-type: none"> <li>1. Power on the wireless unit.</li> <li>2. Power on the wireless base.</li> <li>3. Program the wireless unit to work with its wireless base.</li> <li>4. Select a station with the wireless unit.</li> <li>5. Press and hold the wireless TALK key, then talk.</li> <li>6. Adjust the wireless MENU SIGN AUDIO LEVEL control pot clockwise.</li> <li>7. Re-wire the wireless base cable to the Controller, confirm that it is connected to the correct channel.</li> <li>8. Confirm that a working speaker is wired to the Controller at the station selected.</li> <li>9. Repair the Wireless unit.</li> <li>10. Repair the Wireless base.</li> <li>11. Repair the Controller.</li> </ul>
8. No inbound audio to Wireless base.	<ul style="list-style-type: none"> <li>1. Wireless unit is not on.</li> <li>2. Wireless base is not on.</li> <li>3. Wireless unit not programmed to work with its base.</li> <li>4. A station is not selected.</li> <li>5. Wireless TALK key is pressed.</li> <li>6. The wireless MENU MIC SENS control is too low.</li> <li>7. Wireless base cable to the Controller is incorrectly wired.</li> <li>8. There is no speaker wired to the Controller at the station selected.</li> </ul>	<ul style="list-style-type: none"> <li>1. Power on the wireless unit.</li> <li>2. Power on the wireless base.</li> <li>3. Program the wireless unit to work with its wireless base.</li> <li>4. Select a station with the wireless unit.</li> <li>5. Release the wireless TALK key.</li> <li>6. Adjust the wireless MENU MIC SENS control pot clockwise.</li> <li>7. Re-wire the wireless base cable to the Controller, confirm that it is connected to the correct channel.</li> <li>8. Confirm that a working speaker is wired to the Controller at the station selected.</li> <li>9. Repair the Wireless unit.</li> </ul>

	<ul style="list-style-type: none"> <li>9. Wireless unit is defective.</li> <li>10. Wireless base is defective.</li> <li>11. Controller is defective.</li> </ul>	<ul style="list-style-type: none"> <li>10. Repair the Wireless base.</li> <li>11. Repair the Controller.</li> </ul>
9. Food calls trigger fuel Selectors/bases.	<ul style="list-style-type: none"> <li>1. The Controller Call Merge (if used) is activated.</li> <li>2. The call station button is incorrectly wired to trigger the wrong channel.</li> </ul>	<ul style="list-style-type: none"> <li>1. De-activate the Call Merge function by opening the switch.</li> <li>2. Re-wire the call station button so that it is correctly wired to the proper channel.</li> </ul>
10. A call station is constantly triggering the Controller.	<ul style="list-style-type: none"> <li>1. There is a short to common in the call switch wiring.</li> <li>2. There is a Normally Closed switch at the call station.</li> <li>3. The call switch is defective.</li> </ul>	<ul style="list-style-type: none"> <li>1. Re-wire the call switch so that there is no short to common.</li> <li>2. Replace the Normally Closed switch with a Normally Opened switch.</li> <li>3. Replace the call switch.</li> </ul>
11. A Station Selector resets itself.	<ul style="list-style-type: none"> <li>1. There is a "high" impedance connection on the RS-485 buss.</li> </ul>	<ul style="list-style-type: none"> <li>1. Confirm the RS-485 buss wiring is not damaged. Use heavier gauge wire. Decrease the wire length. Another option is to use an additional power supply on the Station Selector.</li> </ul>



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