

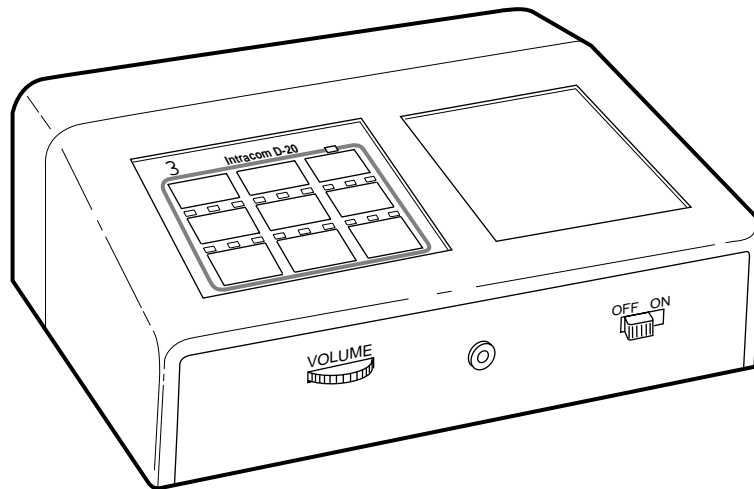


# Troubleshooting Guide

## Model 481 BA (D-20) 6-Channel Intercom System

### Introduction

The Model 481 is a 6-channel intercom system that is typically used to provide communication between store counters and pump islands in self-service gas stations, convenience stores and truck stops.



SP-206A

### Problem Isolation Procedure

Use the troubleshooting table on the following pages to help isolate the problem:

1. Start at the top of the table and work down to the bottom.
2. For each symptom listed, determine if it applies to the situation.
3. If a symptom **does** apply, check (✓) the box adjacent to the symptom.
4. Read across the table to the possible causes and corrections listed in the middle and right columns.
5. Investigate these possible causes and implement the corrections. Possible causes are listed in the order in which they are most likely to occur.

If none of the possible causes and corrections applies to the situation, call 3M Media InTouch and review the "checked" symptoms with the technical support staff.

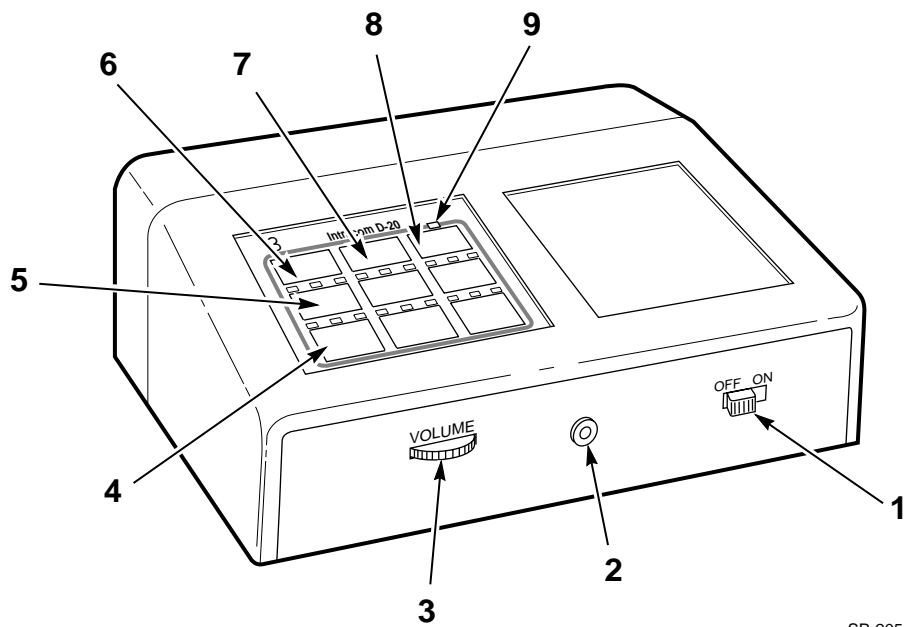


Figure 1. Operating Controls

Key	Control Name	Function
1	Power Switch	Provides power to mainstation.
2	Power Indicator Light	Indicates power is on and the system is ready to operate.
3	Volume Control	Adjusts INCOMING audio level.  NOTE: Volume level adjustments for alert tone and outside speakers are set by the installer.
4	Channel Selector Switches (1-6)	These switches control talk/listen communication for numbered channels. Operator touches switch to talk and releases switch to listen.
5	Indicator Lights	Red indicates TALK mode. Green indicates LISTEN mode. Yellow (steady) indicates channel on "HOLD." Yellow (flashing) indicates incoming call WAITING.
6	Hold Switch	Places selected channel in "HOLD" mode.
7	All Call Switch	Controls conversation with all channels simultaneously.
8	Standby Switch	Silences incoming audio to eliminate undesired background noise pickup when unit is not in use. Touching any CHANNEL SELECTOR SWITCH releases STANDBY mode.
9	Standby Indicator Light	Indicates unit is in STANDBY mode.

**Troubleshooting Table**

<b>Problem</b>		<b>Possible Cause</b>	<b>Correction</b>
	No inbound audio. Power Indicator Light (green) is OFF.	No AC power to the unit.	Check power supply transformer or wall outlet.
	No inbound audio: <ul style="list-style-type: none"> <li>Power Indicator Light (green) is ON.</li> <li>LISTEN Indicator Light (green) is OFF.</li> </ul>	Defective logic board or touch pad.	Check and replace logic board or touch pad.
	No inbound audio: <ul style="list-style-type: none"> <li>Power Indicator Light (green) is ON.</li> <li>LISTEN Indicator Light (green) is ON.</li> </ul>	Defective speaker/mic or analog board.	Check and replace speaker or analog board.
	Inbound audio distorted.	Defective speaker/mic or analog board.	Check and replace speaker/mic or analog board.
	No outbound audio: <ul style="list-style-type: none"> <li>Power Indicator Light (green) is ON.</li> <li>TALK Indicator Light (red) is OFF when TALK SWITCH is pressed.</li> </ul>	Defective logic board or touch pad.	Check and replace logic board or touch pad.
	No outbound audio: <ul style="list-style-type: none"> <li>Power Indicator Light (green) is ON.</li> <li>TALK Indicator Light (red) is ON when TALK SWITCH is pressed.</li> </ul>	Defective speaker/mic or analog board.	Check and replace speaker/mic or analog board.
	The VEHICLE Indicator Light (yellow) blinks, but vehicle detection tone does not sound.	Alert volume too low.	Check and adjust alert volume control on analog board.
		Defective analog or logic board.	Check and replace analog or logic board.

(Continued)

Problem		Possible Cause	Correction
	The VEHICLE Indicator Light (yellow) is OFF and the vehicle detection tone does not sound.	Defective call switch.	Check and replace call switch.
		Defective analog or logic board.	Check and replace analog or logic board.
	Unit will not return to standby mode when STANDBY Switch is pressed.	Defective logic board.	Check and replace logic board.
	Unit will not come out of standby mode.	Defective logic board.	Check and replace logic board.
	Outbound audio distorted.	Defective analog board.	Check and replace analog board.
		Defective internal microphone.	Replace microphone.
		Defective outside speaker.	Replace speaker.



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