A18-05775-XX

ORDER WIRE CONTROL
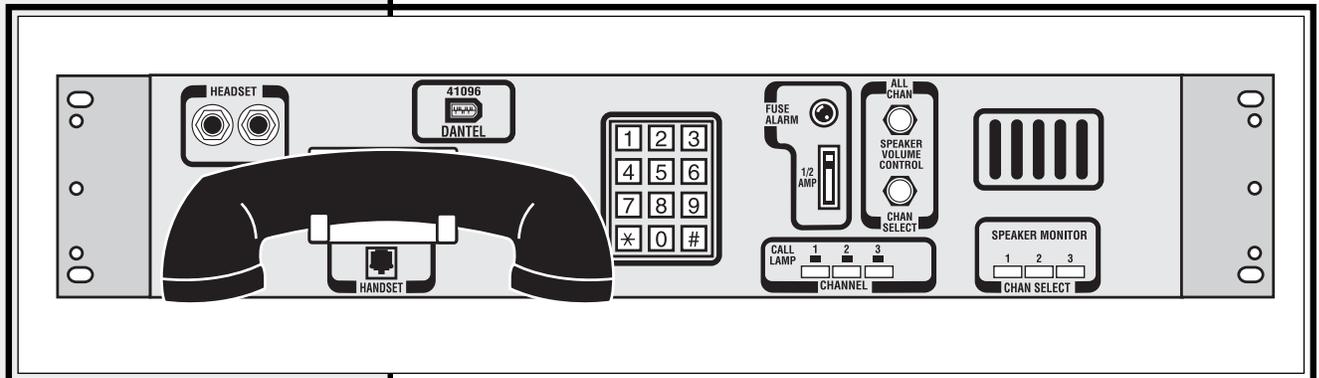
AND SPEAKER MONITOR

PANEL

Table of Contents

<div style="color:red">**CAUTION**</div>

- Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.

- Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).

- Keep circuit boards in their antistatic bags when they are not in use.

- Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.

- For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

About this Practice:

- This is a new document.

Reissued Practices: Updated and new content can be identified by a banner in the right margin.

UPDATED

Issue date: July 1998

ORDERING INFORMATION

NOTE: This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, **1-800-432-6835.**

OPTION NUMBER	FEATURES
A18-05775-00	Speaker Monitor Panel only

GENERAL DESCRIPTION

The Dantel 41096 Order Wire Control and Speaker Monitor Panel (41096 Panel) provides centralized monitoring facilities for up to three selective signaling order-wire terminals. The panel can also be used to originate a call or answer an incoming call on an individual order wire channel.

The 41096 is mounted on a hinged bracket. The 41096 Panel occupies 3½" (2 rack units) in a 19" or 23" rack and operates on -21 to -56 VDC.

The 41096 Panel consists of a monitor section and a control section. The monitor section includes:

♦ A push-button channel selector

♦ A speaker with amplifier

♦ Two volume controls

♦ A fuse

♦ A fuse alarm LED

The control section includes:

♦ A push-button channel selector

♦ DTMF dial

♦ Handset

♦ Handset cradle

♦ Headset jacks

CIRCUIT DESCRIPTION

Fig. 1 shows the 05775 Order Wire and Speaker Monitor Panel functional schematic.

The 05775 Panel monitoring section monitors all associated order wire channels over the speaker. Incoming calls couple to the speaker through transformers, operational amplifiers, and a volume control potentiometer.

The push-button speaker monitor channel selector monitors any one or two channels through an additional volume control potentiometer. This option allows the selected channel(s) to be monitored at a louder level. The unselected channels are still available for monitoring at a quieter level.

A fuse and fuse alarm indicator LED are located on the front panel. When the fuse blows, the alarm indicator LED lights up.

The control section is used to originate a call or answer an incoming call on an individual order wire channel. Pressing the channel button connects the handset to the respective order wire channel. A headset may be used instead of the handset.

FIG. 1 - 05775 FUNCTIONAL SCHEMATIC
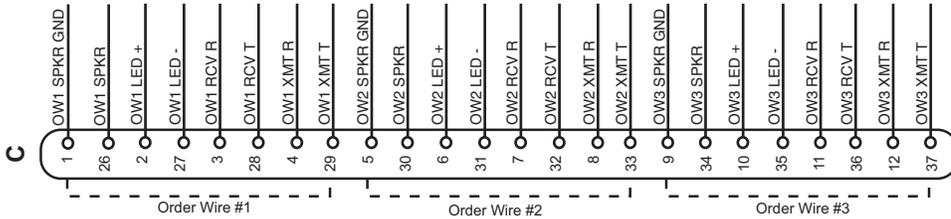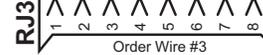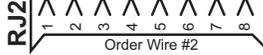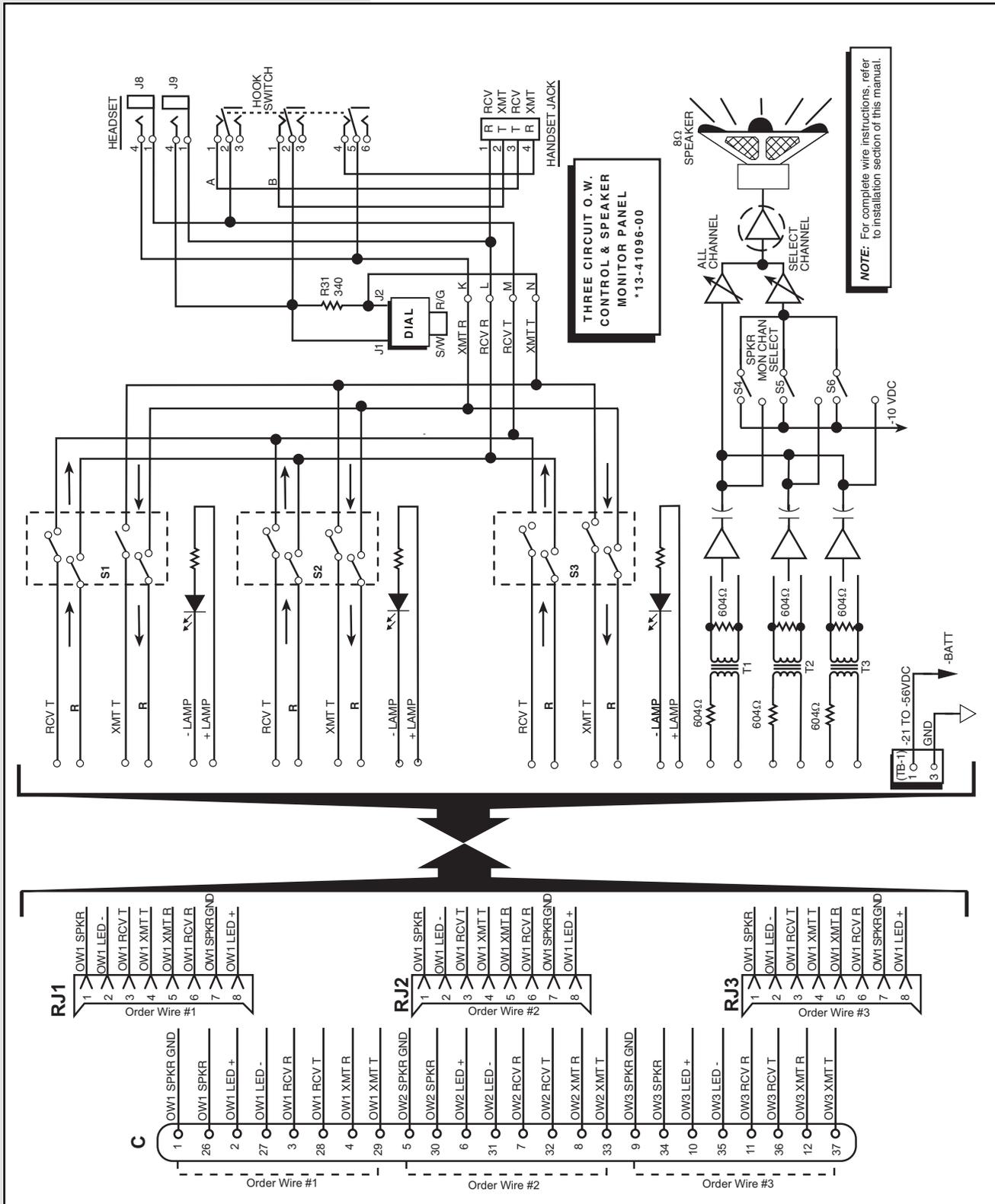
INSTALLATION

The 05775 Order Wire Control and Speaker Monitor can be installed with existing DTSS3A Order Wire terminals.

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1. Set the straps.

Refer to Table A and Fig. 2.

TABLE A - STRAP OPTIONS

STRAP	POSITION
CONTROL LIMIT BYPASS	
ALL CHAN	
Control Limit In	CTL LMT A IN *
Control Limit Bypassed	CTL LMT A OUT
CHAN SELECT	
Control Limit In	CTRL LMT B IN *
Control Limit Bypassed	CTRL LMT B OUT
* Default Setting	

FIG.2 - FRONT PANEL AND STRAP OPTION LOCATIONS

TOP VIEW (INSIDE)
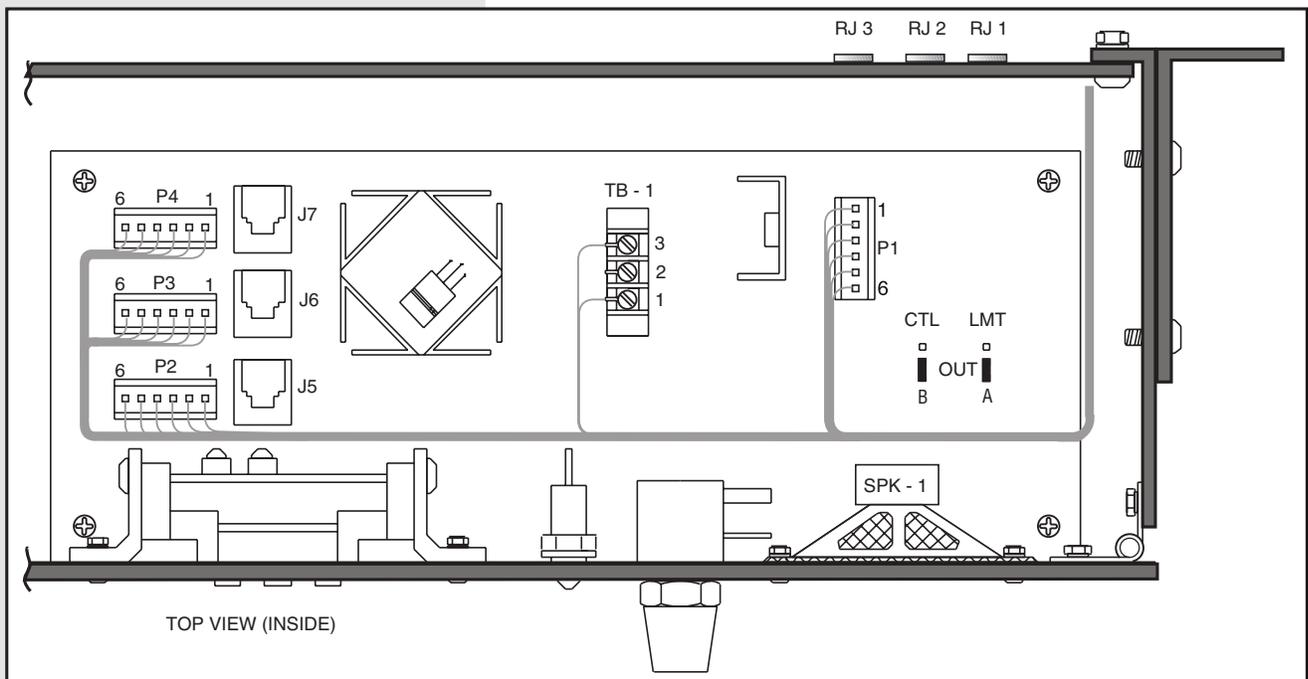
INSTALLATION

When a 05775 Panel is being installed with existing DTSS3A order wire terminal(s), the terminal(s) may be mounted behind the panel or near it. To mount the terminal(s) behind the panel, mount them to the panel before completing the rack mounting and wiring.

2. Remove mounting brackets.

Remove the mounting brackets from the order wire terminal(s) and replace them with the mounting brackets supplied with the 05775 panel. Install the brackets in the flush-mount position on the front of the order wire terminal(s).

3. Position 41096 Panel mounting brackets.

Position 05775 Panel mounting brackets for the desired mounting (5" projection or flush, for 19" or 23" width). Refer to Fig. 3.

FIG. 3 - MOUNTING BRACKET (ATTACH ANGLE) POSITIONS

SIDE VIEW FRONT →

TOP VIEW FRONT

"19 STANDARD MOUNT

SIDE VIEW FRONT →

TOP VIEW FRONT

"19 FLUSH MOUNT

SIDE VIEW FRONT →

TOP VIEW FRONT

"23 STANDARD MOUNT

SIDE VIEW FRONT →

TOP VIEW FRONT

"23 FLUSH MOUNT
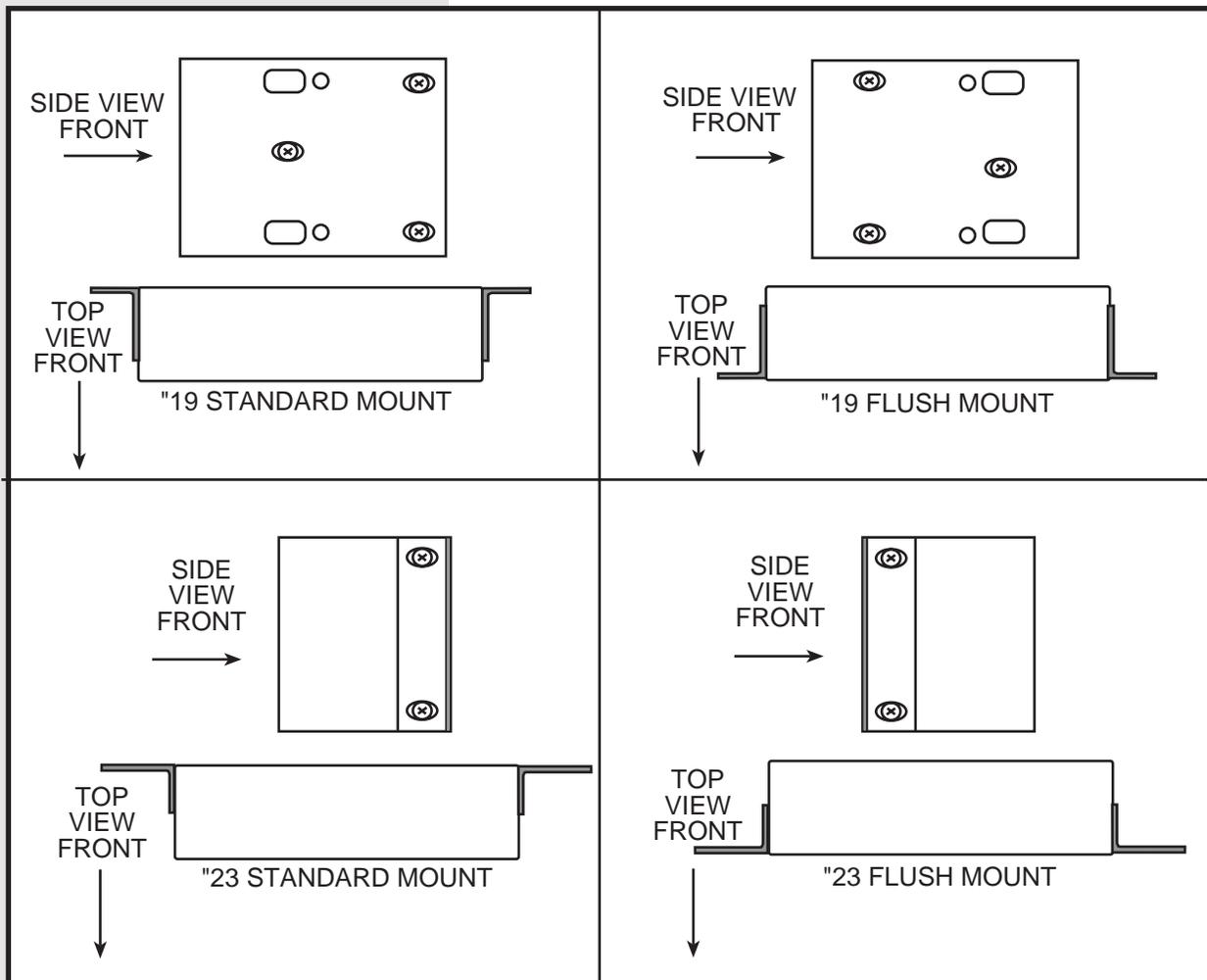
4. Install the inter-panel wiring for each channel.

Refer to Table B, Fig. 4 and Fig. 5. Dress the wiring across the rear of the 05775 Panel and through the wire-passage notches in the mounting brackets. Leave enough slack for the panel to open freely.

TABLE B - INTER-PANEL WIRING

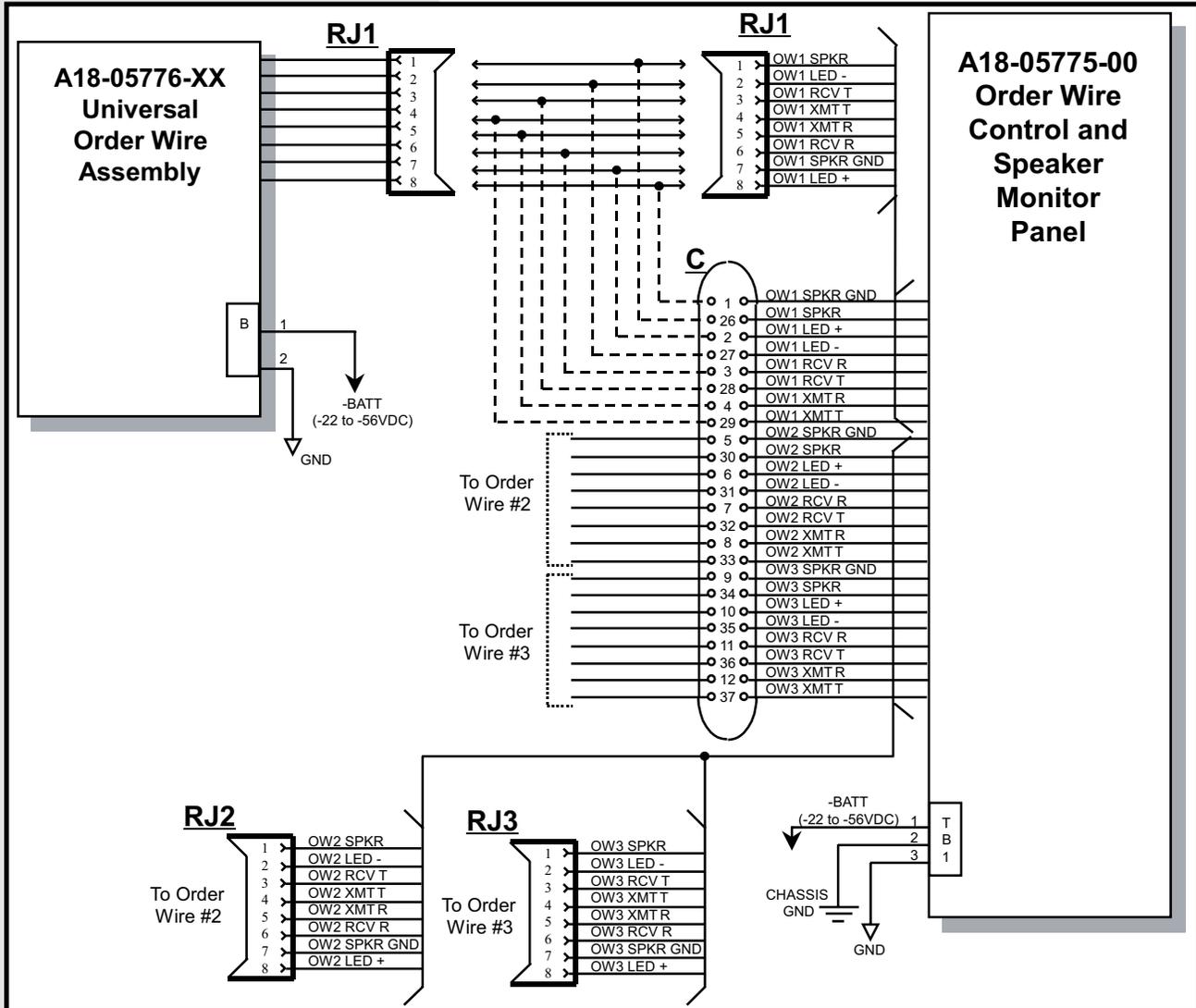| POWER			
–Battery	TB1-1		
Ground	TB1-3		
Chassis Ground	TB1-2		
SIGNAL AND LAMP CONNECTIONS	**CHANNEL 1**	**CHANNEL 2**	**CHANNEL 3**
RCV Ring	RJ1-6 or C-3	RJ2-6 or C-7	RJ3-6 or C-11
XMT Tip	RJ1-4 or C-29	RJ2-4 or C-33	RJ3-4 or C-37
+Lamp	RJ1-7 or C-2	RJ2-7 or C-6	RJ3-7 or C-10
RCV Tip	RJ1-3 or C-28	RJ2-3 or C-32	RJ3-3 or C-36
XMT Ring	RJ1-5 or C-4	RJ2-5 or C-8	RJ3-5 or C-12
–Lamp	RJ1-2 or C-27	RJ2-2 or C-31	RJ3-2 or C-35
External Speaker	RJ1-1 or C-26	RJ2-1 or C-30	RJ3-1 or C-34
Speaker Ground	RJ1-8 or C-1	RJ2-8 or C-5	RJ3-8 or C-9

FIG 4 - 05775 REAR VIEW

FIG 5 - WIRING DIAGRAM

A18-05776-XX Universal Order Wire Assembly

RJ1

Pin	
1	
2	
3	
4	
5	
6	
7	
8	

RJ1

Pin	Signal
1	OW1 SPKR
2	OW1 LED -
3	OW1 RCV T
4	OW1 XMT T
5	OW1 XMT R
6	OW1 RCV R
7	OW1 SPKR GND
8	OW1 LED +

A18-05775-00 Order Wire Control and Speaker Monitor Panel

B
1
2

-BATT
(-22 to -56VDC)

GND

C

Pin	Signal
1	OW1 SPKR GND
26	OW1 SPKR
2	OW1 LED +
27	OW1 LED -
3	OW1 RCV R
28	OW1 RCV T
4	OW1 XMT R
29	OW1 XMT T
5	OW2 SPKR GND
30	OW2 SPKR
6	OW2 LED +
31	OW2 LED -
7	OW2 RCV R
32	OW2 RCV T
8	OW2 XMT R
33	OW2 XMT T
9	OW3 SPKR GND
34	OW3 SPKR
10	OW3 LED +
35	OW3 LED -
11	OW3 RCV R
36	OW3 RCV T
12	OW3 XMT R
37	OW3 XMT T

To Order Wire #2

To Order Wire #3

RJ2

To Order Wire #2

Pin	Signal
1	OW2 SPKR
2	OW2 LED -
3	OW2 RCV T
4	OW2 XMT T
5	OW2 XMT R
6	OW2 RCV R
7	OW2 SPKR GND
8	OW2 LED +

RJ3

To Order Wire #3

Pin	Signal
1	OW3 SPKR
2	OW3 LED -
3	OW3 RCV T
4	OW3 XMT T
5	OW3 XMT R
6	OW3 RCV R
7	OW3 SPKR GND
8	OW3 LED +

-BATT
(-22 to -56VDC)

TB1	
1	
2	
3	

CHASSIS GND

GND

5. Install the assembled unit into the rack.

6. Connect supply leads.

7. Connect input and/or output ports.

Connect the appropriate input and/or output ports on each order wire (see the 00330 DTSS3A and subassembly documentation.)

OPERATION

Initiate a call to the VNET (Off-Net) assembly by pressing the desired channel push-button, lifting the handset (or plugging in a headset) and dialing the desired station code. Answer an incoming call by pressing the channel push-button below the CALL LAMP LED and lifting the handset (or plugging in a headset).

To call another station, remove the handset from its cradle and call the desired site by speaking the site name into the handset.

Monitor all three order wire channels by turning the ALL CHAN SPEAKER VOLUME CONTROL clockwise until a sufficient level is heard.

Monitor a single channel by pressing the desired SPEAKER MONITOR CHAN SELECT push-button and turning the CHAN SELECT SPEAKER VOLUME CONTROL clockwise until a sufficient level is heard.

Reduce the level of other channel traffic by turning down the ALL CHAN SPEAKER VOLUME CONTROL. A limit resistor prevents other channel traffic from being completely turned off. This limit resistor can be bypassed with a bypass strap.

Monitor two channels at once by pressing two SPEAKER MONITOR CHANNEL SELECT push-buttons. When channel monitoring is no longer desired, return to all-channel monitoring by pressing and releasing the SPEAKER MONITOR CHANNEL SELECT push-button(s).

TECHNICAL SPECIFICATIONS

DESCRIPTION	VALUE
Input Voltage Range	−21 to −56 VDC
Input Current	
Idle	75 mA @ −56 VDC
Maximum	250 mA @ −56 VDC
Heat Dissapation	
Idle	14.3 BTU/Hr. @ −56 VDC
Maximum	47.7 BTU/Hr. @ −56 VDC
Weight	
Option -00	4 lb., 2 oz.
Physical Dimensions	17 1/4"W (plus mounting hardware) x 3 1/2"H x 6"D
	Handset projects 2 1/2" in front of panel.
Mounting Projection	5" or flush for 19" or 23" rack
Operation Temperature Range	0° to 55° C.
Output Power	1 Watt
Maximum Input Level	−10 dBm
Frequency Response	300 hz. to 3.6 Khz $\pm$ 1 dB @ 1 Watt (measured w/ 8 ohm resistor)
Input Impedance	Low Impendance

WARRANTY

LIMITED WARRANTY

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PUR-POSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.

IN CASE OF DIFFICULTY

If you experience difficulty with this equipment, check the following, as appropriate:

1. **Switch settings**
2. **Signal levels**
3. **Software configuration**
4. **Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

1-800-4DANTEL (1-800-432-6835).

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL** (1-800-432-6835).

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

Dantel, Inc.   •   2991 North Argyle Avenue   •   Fresno, California 93727-1388

Dantel