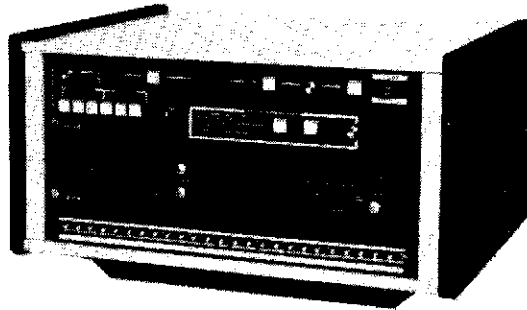
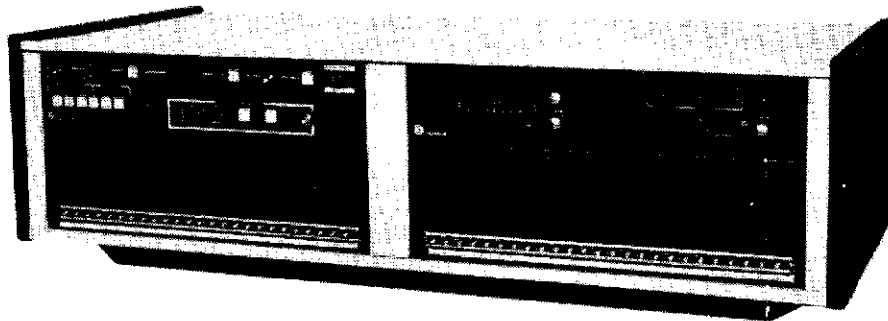


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**DUKANE**  
**Installation Instructions**  
**COMPACT COMMUNICATION CENTERS**  
**MODELS 12(A,B)902**  
**12(A,B)903**  
**12(A-D)904**



**MODEL 12C904**  
**With Tuner/Cassette**  
**Option**



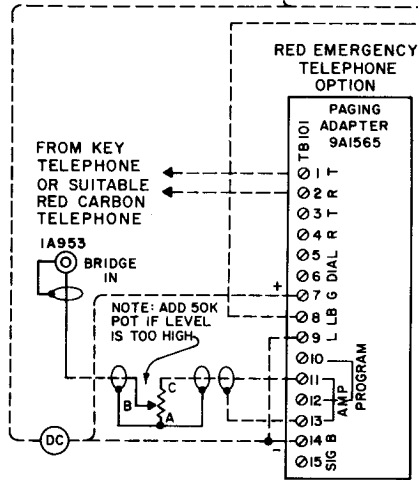
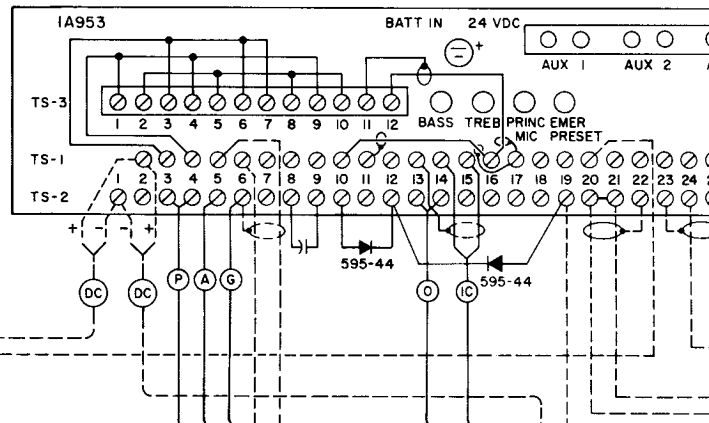
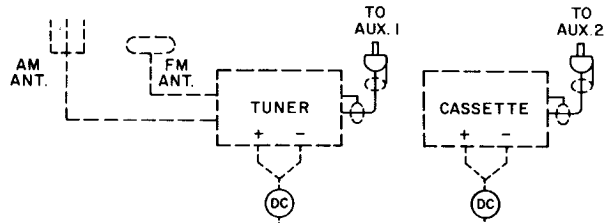
**MODEL 12B903**  
**With Tuner/Cassette**  
**Option**

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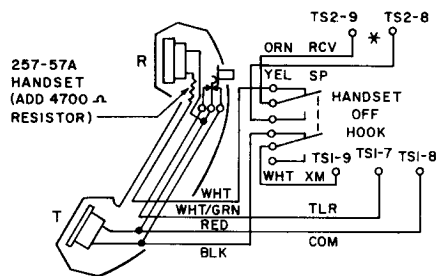
403-288B



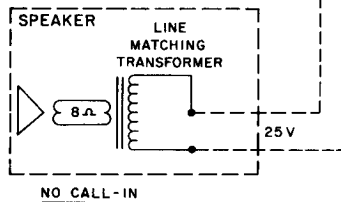
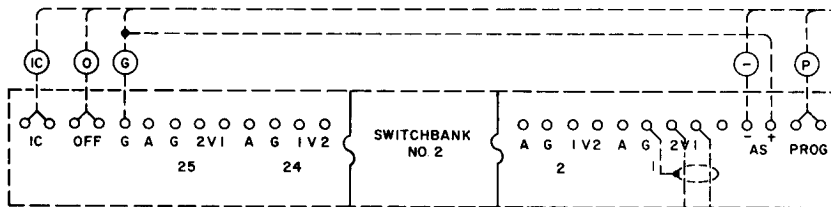
FOR AM AND FM ANTENNA CONNECTIONS, REFER TO IOA161-IOA165 INSTALLATION MANUAL (DOCUMENT NO. 403-267).



7A825A HANDSET CONNECTIONS TO IA953

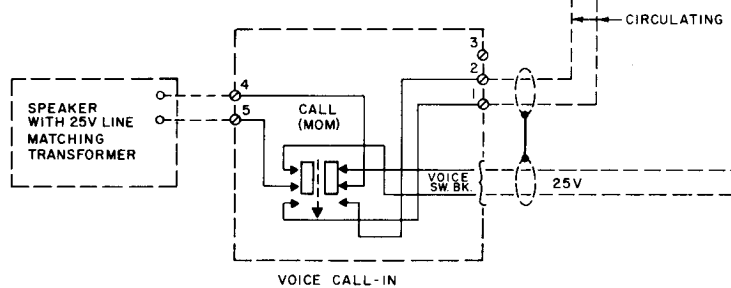


\* WHEN USING A HANDSET, REMOVE CAPACITOR CONNECTED BETWEEN TERMINALS 8 AND 9 OF TS-2. THE 500 μF CAPACITOR SUPPLIED WITH THE 7A825A HANDSET IS NOT REQUIRED.

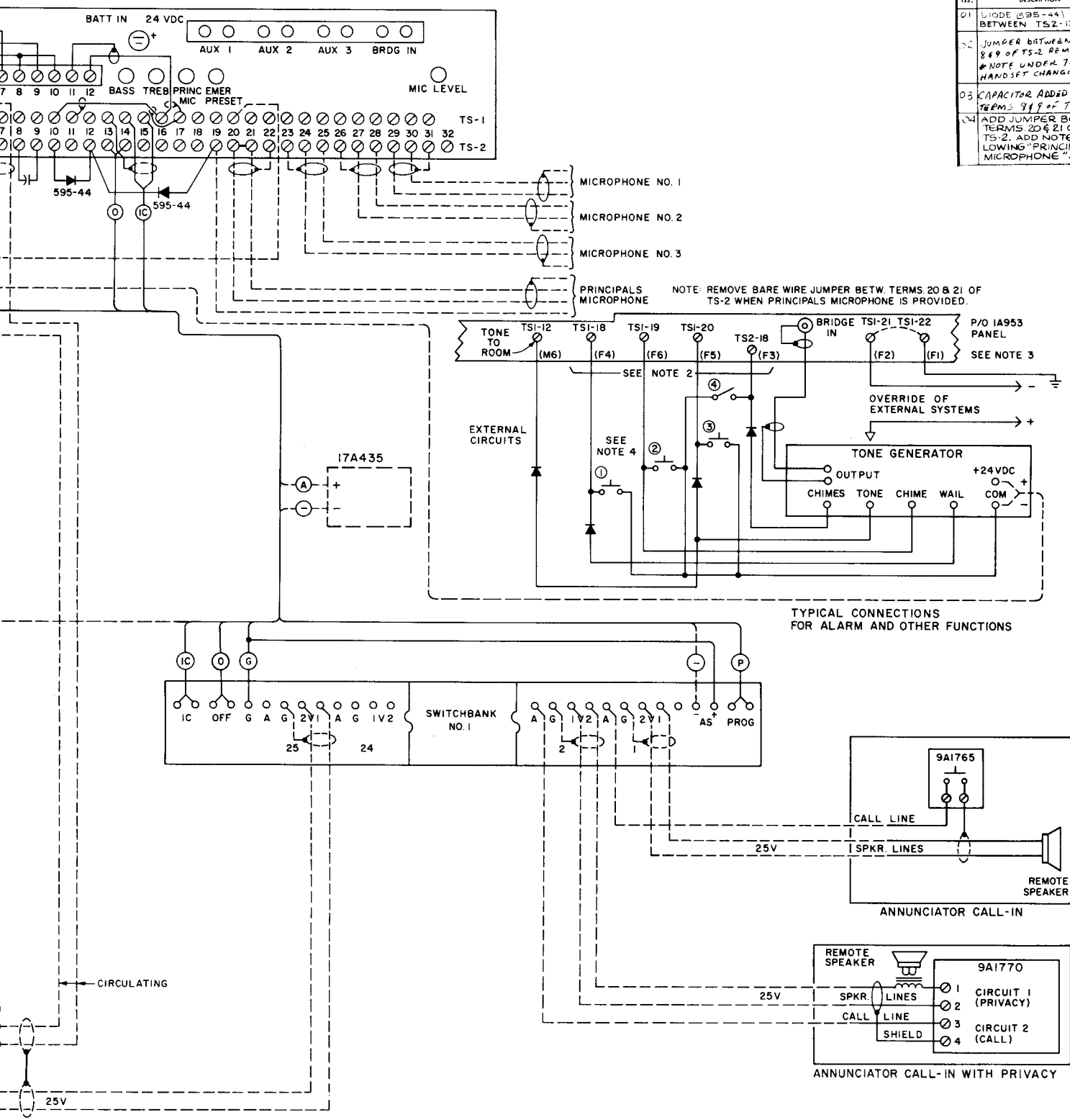


NOTES:

1. ALL UNITS SHOWN IN DASHED LINES ARE OPTIONAL AND MAY BE ADDED AS REQUIRED.
2. COMMON PLACED ON ANY OF THESE LEADS WILL RESULT IN A GATHERING OF ALL SPEAKERS IN THE SYSTEM.
3. CONTINUITY IS ESTABLISHED BETWEEN F1 AND F2 DURING EMERG., PRINCIPAL MIC, AND ALL CALL CONDITIONS.
4. TYPICAL SWITCHES: ① DISASTER (FIRE, TORNADO, ETC.) - WAIL ② JANITOR CALL - CHIME ③ OPEN DOOR - TONE ④ TIME SIGNAL - CHIMES.



REVISIONS			
ISS.	DESCRIPTION	APP'D	DATE
01	DIODE (595-44) ADDED BETWEEN TS2-12 AND 9	RJB	4/2/83
02	JUMPER BETWEEN TERMS 8 & 9 OF TS-2 REMOVED. # NOTE UNDER 7A825A HANDSET CHANGED.	RJB	11/11/83
03	CAPACITOR ADDED bet. TERMS 8 & 9 OF TS-2	RJB	8/5/84
04	ADD JUMPER BETW. TERMS 20 & 21 OF TS-2. ADD NOTE FOLLOWING "PRINCIPALS MICROPHONE".	RLB	8/24/84



UNLESS OTHERWISE SPECIFIED:	DIMENSIONS ARE IN INCHES	FRACTIONS: $\frac{\quad}{\quad}$	2 PLACE DECIMAL: $\pm$	3 PLACE DECIMAL: $\pm$	ANGLES: $\pm$
<b>DUKANE</b> ST CHARLES, ILLINOIS 60174		MODELS 12 (A, B) 902/903 12 (A-D) 904 COMPACT COMMUNICATION CENTERS		SCALE: #	DATE DRAWN: 2-8-83
DRAWN: OP	APP'D: RJB	NO. 400-1714		CHECKED: ENGR.	SHEET 1 OF 1

## POWER REQUIREMENTS

The Dukane Compact Communication Centers operate from a primary source of either 120 VAC or 240 VAC (selectable at the AC power connection to the 1A953 Control Panel), 50-60 Hz at 240 watts full rated load and 30 watts idle. Power may be obtained by inserting the 3-wire AC power plug into a convenient wall outlet.

Battery backup to the AC source is optional. The battery source required is +24 VDC at 5 amperes maximum and is connected to the control panel by means of a polarized socket located on the rear panel.

## EXTERNAL CONNECTIONS

The wiring diagram No. 400-1714 shows typical connections for microphone lines, auxiliary program and bridge inputs, remote speaker stations, and remote call-in lines. The call-in lines may be either voice or annunciator.

Speaker matching transformers should be used at the remote speakers, as typically illustrated in the diagram, properly connected as determined by installation planning.

The system may be supplied with either one or two of the following switchbanks:

Model 9A1780 (without annunciators)

Model 9A1785 (with annunciators) – requires a Model 17A435 Power Supply.

Both AM-FM Tuner and Cassette Tape Player are optional.

The systems may be enclosed in either a single cabinet, Model 13A455, or a dual cabinet, Model 13A460, depending on the system model.

The various models are composed of the components as shown in the chart below.

	1A953	9A1780	9A1785	17A435	13A455	13A460
12A902	1	1				1
12B902	1	2				1
12A903	1		1	1		1
12B903	1		2	1		1
12A904	1	1			1	
12B904	1	2			1	
12C904	1		1	1	1	
12D904	1		2	1	1	

## RELATED DOCUMENTS

1A952/3 Installation Instructions – document #403-276B.

12(A, B)902, 903, 12(A-D)904 Operating Instructions – document #401-424.