MODEL SAP1626 SOURCE ASSIGN PANEL
MODEL BOP220 I/O CONNECTOR TRANSLATION ASSEMBLY

RTS

INTRODUCTION

Model SAP1626 Source Assign Panel provides a convenient means of assigning any one of 12 intercom channels and/or three program audio channels to 26 individual or groups of intercom user stations. Viewed as a "matrix switch", it transforms a basic two bus intercom system into a 15 bus system.

When used as an intermediary between Series 800 (conference-line) Master Stations and TW Intercom System user stations, the SAP1626 distributes the master station channels to each group of user stations.

While the master stations have multiple channel capability and can access a number of lines independently or simultaneously, user stations have only two channel capability. The SAP1626 programs each user station to correspond with the same channels on the master stations. Once the channel assignments are made, the master station selectively communicates with any combination of user stations programmed on different channels.

The SAP1626 can also be used to assign channels in a 15 channel user station system configuration without master stations.

ASSIGNMENT

Any one of the 12 intercom channels (input buses) or 3 program channels can be assigned to any one of the 26 output lines; each line consists of two separate feeds from the SAP1626. For example, a given user station may be assigned intercom channels 1 and 4. Another station may be assigned intercom channel 1 and program source 3. Almost any combination of channels can be assigned with up to six headset user stations, the output of two thumbwheel switch groups, on a common string.

OUTPUTS

Output pairs 1 thru 6 are designated for television camera intercom. Output connections can be made directly to each camera or to Models VIE306 or CIF612 Station-Isolate Systems. In the latter cases, the outputs are switched and/or processed accordingly and then routed to the individual camera intercom circuits.

To treat the camera outputs as conventional user station outputs, a custom translation device can be used to interface the two connector types. The output pairs can be configured as either 12 single-channel or 6 two-channel outputs. Alternatively, a special cable assembly (25-pin D to 50-pin microribbon) can be used to connect the SAP1626 to a second BOP220 using 6 of the 20 outputs.

Outputs 7 thru 26 are designated "external" and exit the SAP1626 via two 50-pin microribbon connectors. At this point the signals are distributed through the BOP220 for direct connection to the TW Intercom user stations.

BOP220 I/O CONNECTOR TRANSLATION ASSEMBLY

The BOP220 Break Out Panel interfaces the SAP1626 and the TW Intercom user stations. It is a passive routing device (no electronics) which converts the two 50-pin connectors from the SAP1626 to 20 XLR-type 3-pin male connectors for direct connection to the user stations. All 20 user station lines connect to this central point.

PACKAGING

The SAP1626 fits into a standard EIA equipment rack and requires two rack units. The BOP220 requires three rack units and mounts directly behind the SAP1626; it is inset from the rear rack rails to allow for cable connections.

Each connector on the BOP220 is numbered with respect to its pair of thumbwheel switches on the SAP1626. This allows for easy system connection as well as rapid disconnection in the event of a faulty line.

Model SAP1626 Specifications

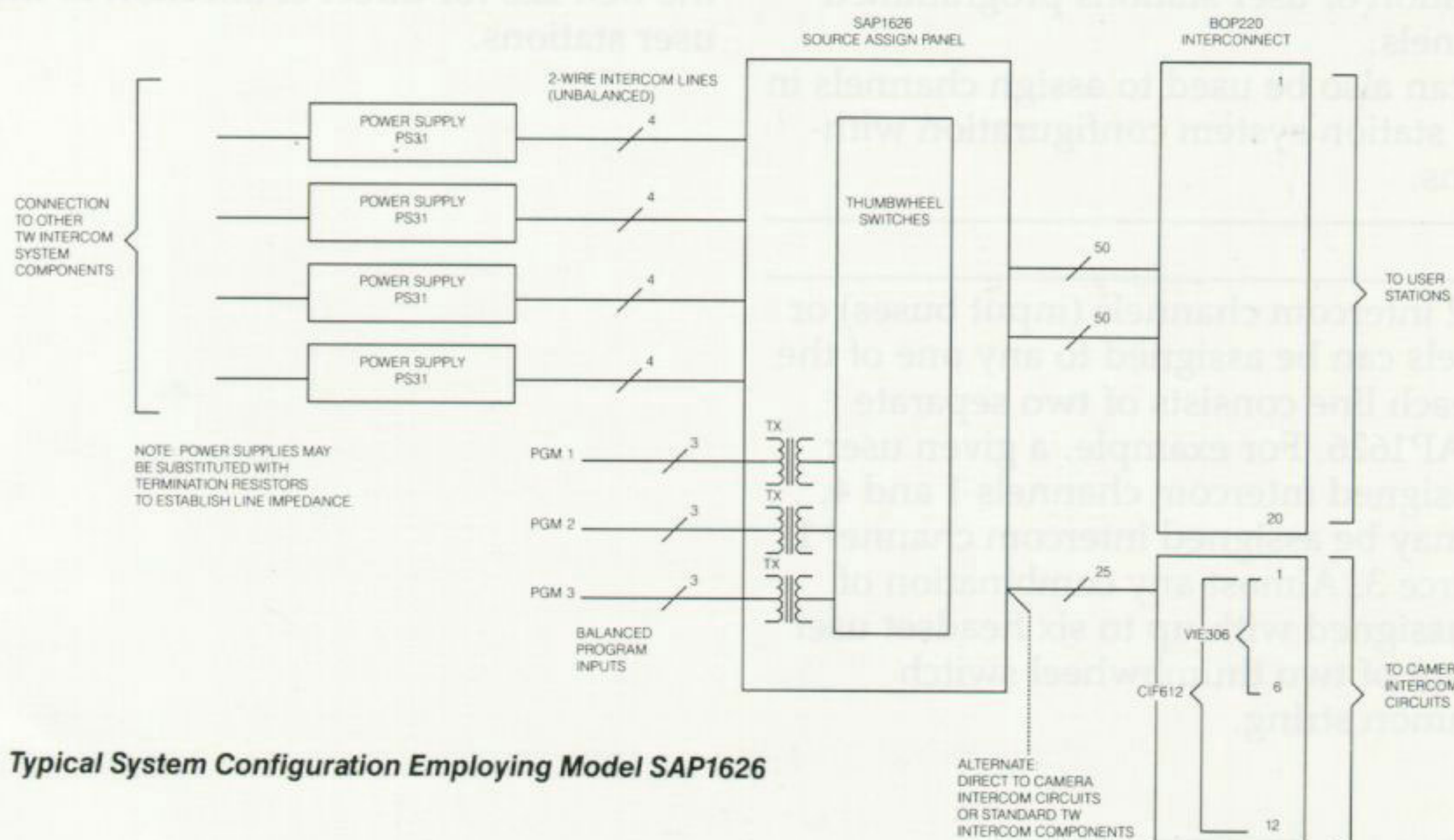|	
Maximum Switch Carrying Current	2.0 amps per output
Maximum Switch Breaking Current	0.5 amps per output
Inputs	
Intercom	12 lines, full-duplex
Levels	2 volts p-p nominal In and out
Program	3 sources, simplex
Input Impedance	800 ohms
Input Level Range	−4 dBm to +8 dBm
Outputs	
User Station	20
Camera	6
Power Requirements	Power is derived from the TW Intercom Power Supply(s)
Dimensions/Weight	3.46"H x 19.0"W x 9.8"D – 10 lbs. 88H x 484W x 249D mm – 4.5 kg.
Finish	Light gray enamel paint
BOP220—Specifications	
Inputs	Two 50-pin male microribbon connectors
Outputs	Twenty 3-pin male XLR-type connectors
Dimensions/Weight	5.46"H x 19.0"W x 5"D – 2.53 lbs. 133H x 484W x 127D mm – 1.1 kg.
Finish	Gold Irridite

BOP220

Typical System Configuration Employing Model SAP1626

Form No. RTS 20060-3