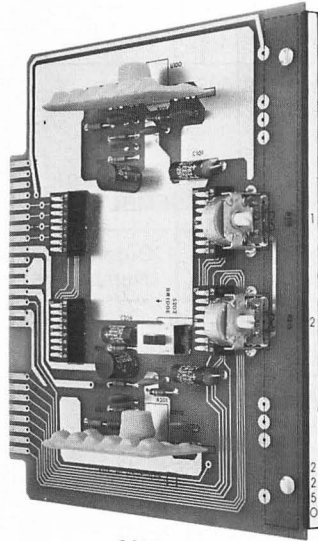
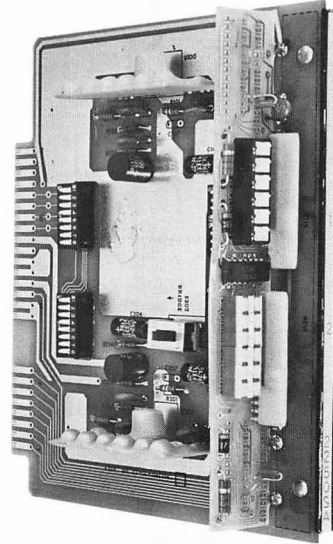


TECHNICAL INSTRUCTIONS



2250



2250SA

SPECIFICATIONS, MODEL 2250/2250SA

Type	Driver Card with 2 drive amplifiers, input and output switch matrix and 2 attenuators.
Driver Amplifiers	X 57.3 (35.2 ± .2 dB voltage amplification) amplifiers designed specifically to drive the Model 2275 Power Amplifiers.
Switches	
Matrix Switches:	DIP (dual inline package) SPST switches—8-switches per DIP; 2 input DIPS and 2 output DIPS.
Bridging Switches:	Slide-type switch to bridge the outputs of two Model 2275 Power Amplifiers for a 70-volt balanced output.
Performance Specifications	Included with Model 2275 Power Amplifier Specifications.
Attenuators	
Model 2250:	One 50K ohm audio taper potentiometer at the input of each driver amplifier; at least 60 dB attenuation at full CCW rotation.
Model 2250SA:	One six-position DIP switch for each attenuator with sumable steps of 1-2-4-8-16-32 dB; maximum 63 dB attenuation.

DESCRIPTION

The Model 2250 and 2250SA Driver Card Modules are plug-in components of the ALTEC Incremental Power System. The driver modules feed inputs to the power amplifier modules to achieve the desired combinations of output signals and output power. One or two driver modules may be inserted in the main frame of the Incremental Power System to process the inputs.

Each driver card module includes two driver amplifier circuits, an 8-channel input switching matrix, an 8-channel output switching matrix, a bridging switch, and two attenuators. Attenuators of the Model 2250 are continuously adjustable to a maximum attenuation of -60 dB. Attenuators of the Model 2250SA are adjustable in discrete increments of 1 dB, to a maximum attenuation of -63 dB.

INSTALLATION, SETUP, OPERATION

Refer to Operating Instructions for Incremental Power System (42-02-045121).

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

PARTS LIST

MAIN PCB ASSEMBLY

Reference Designator	Ordering Number	Name and Description
— *	27-01-045257-01	Circuit Board, 2 Channel Step Attn.
C101,201 206	15-01-045263-01	Cap., 1 mF, 25V
C102,202	15-01-100233-01	Cap., 50 mF, 15V
C103,203	15-02-100032-01	Cap., 250 pF ± 10%, 500V
C104,204	15-02-100007-01	Cap., 3.3 pF ± 10%
C105,205	15-02-100010-01	Cap., 10 pF, 500V
C107,207**	15-02-100024-01	Cap., 100 pF ± 10%, 500V
R101,201	47-01-102185-01	Res., 68kΩ ± 10%, ¼ W

Reference Designator	Ordering Number	Name and Description
R102,202	47-03-108443-01	Res., 1.21 kΩ ± 1%, ¼ W
R103,203, 214	47-03-109159-01	Res., 68.1 kΩ ± 1%, ¼ W
R115,215**	47-06-121822-01	Pot., 50 kΩ, audio taper
S101,103, 201,203	51-02-121529-01	Switch, SPST, 8-sect. mini rocker
S202	51-02-121952-02	Switch, SPDT, slide
U100,200	17-01-121528-01	Int. Ckt, op amp high voltage

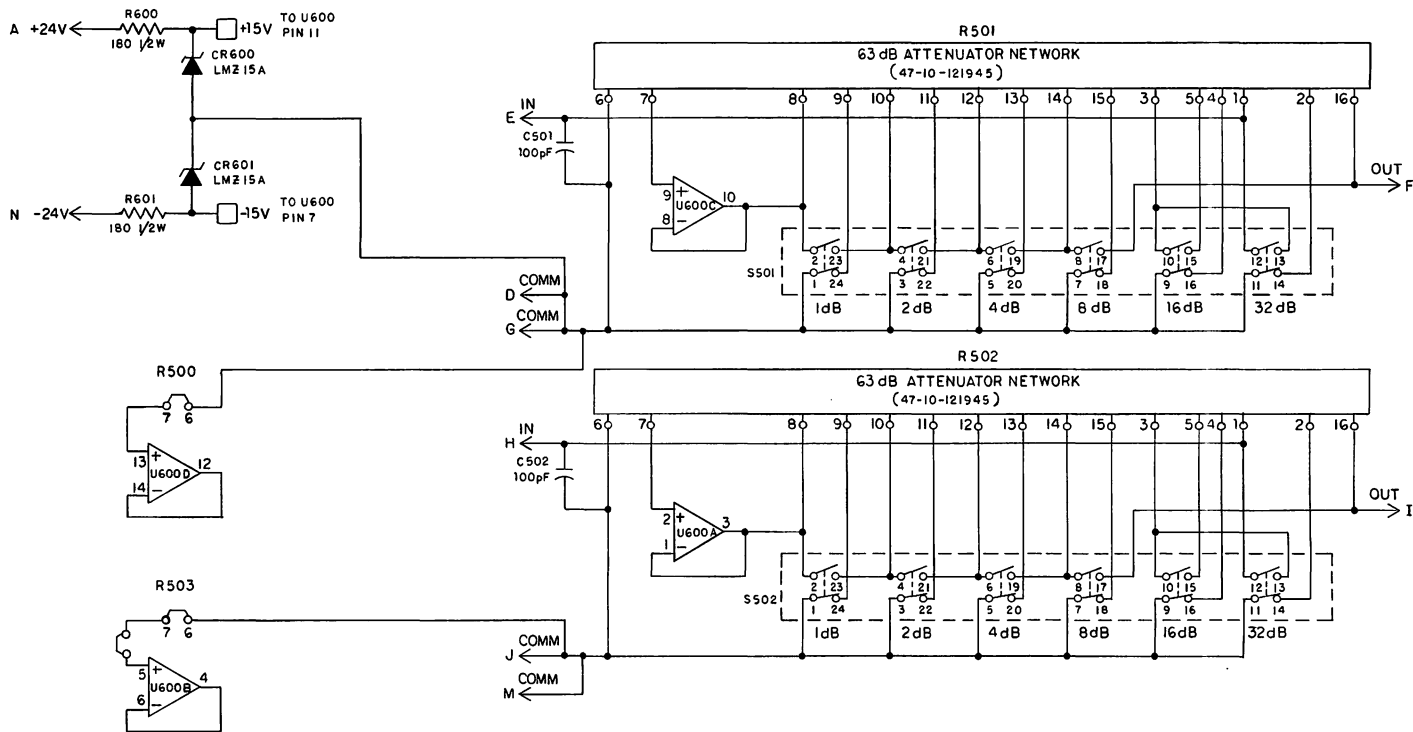
*Model 2250SA only
**Model 2250 only

TWO-CHANNEL STEP ATTENUATOR ASSEMBLY*

Reference Designator	Ordering Number	Name and Description
C501,502	15-02-100024-02	Cap., 100 pF ± 10%, 500V
CR600,601	48-01-108576-02	Diode, Zener, 15V ± 5%, 2W
R501,502	47-10-121945-01	Network, 63 dB attenuation
R600,601	47-01-102345-01	Res., 180Ω ± 10%, ½ W

Reference Designator	Ordering Number	Name and Description
U600	17-01-121305-01	Int. Ckt., op amp
S501,502	51-02-121946-01	Switch, 6X SPDT

*Model 2250SA only



2. SEE ASSY 9C508
1. OP AMPS. RC4136

NOTES: UNLESS OTHERWISE SPECIFIED

Figure 1. Schematic (9D509), 2-Channel Step Attenuator

REVISIONS					
ISSUE	ZONE	ECO	DESCRIPTION	BY	DATE
A			REL. FOR PROTO	L B	
01			REL FOR PRODUCTION		5-178

3

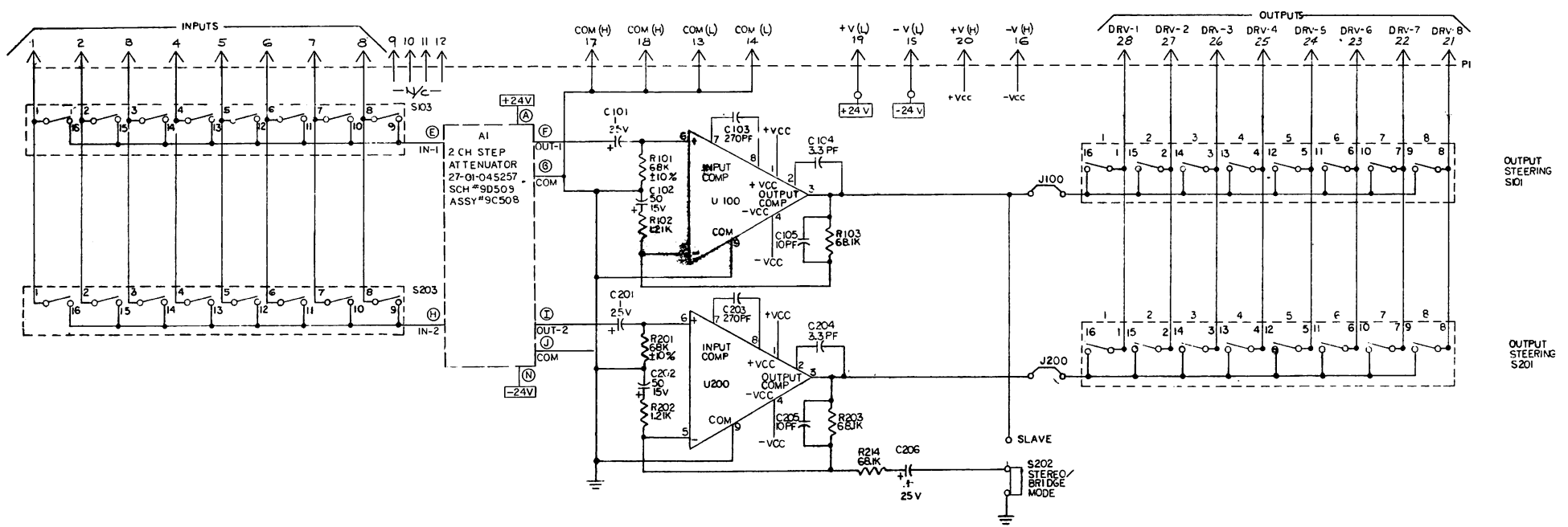
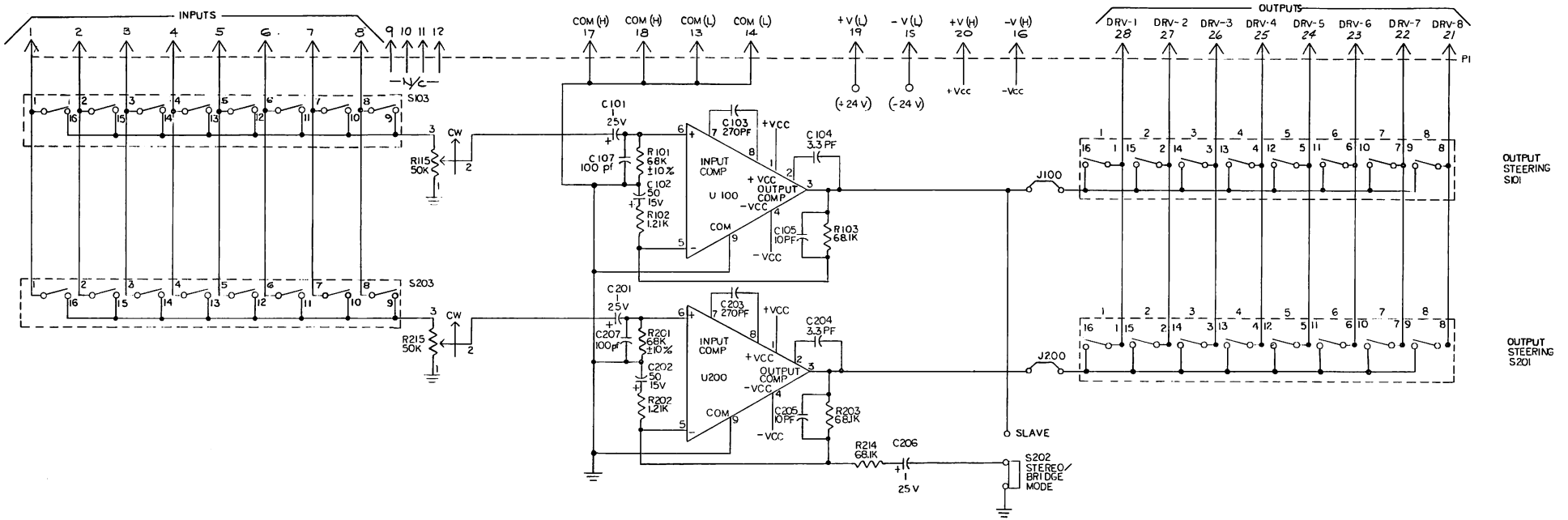


Figure 2. Schematic (9D484), Model 2250SA Driver Module

REVISIONS				APPROVED	
ISSUE	ZONE	ECO	DESCRIPTION	BY	DATE
E			REL FOR PRODUCTION	...	7-18-77
F			DELETE POINT C4 R114 & G8.1K. R172, 25V & C102 STEREO BRIDGE MODE	FB	
G			FOR CHANGE RECORD SEE REV F	FB	10-13-77
99			REL FOR PILOT		
01			REL FOR PRODUCTION		4-1-79



4. FOR ASSEMBLY DRAWING SEE 9C141.
 3. FOR SEPERATE BILL OF MATERIAL SEE 10 02-01 192 & 27-01-045 106.
 2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
 1. ALL RESISTOR VALUES ARE IN OHMS 1/4W 1%.
- NOTES: UNLESS OTHERWISE SPECIFIED

Figure 3. Schematic (9D135), Model 2250 Driver Module