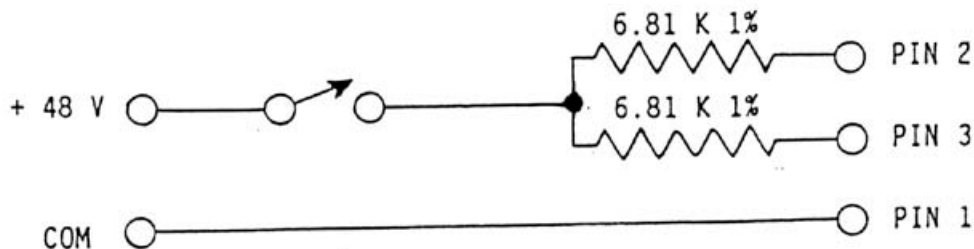


Application Note

PHANTOM POWER CIRCUITS

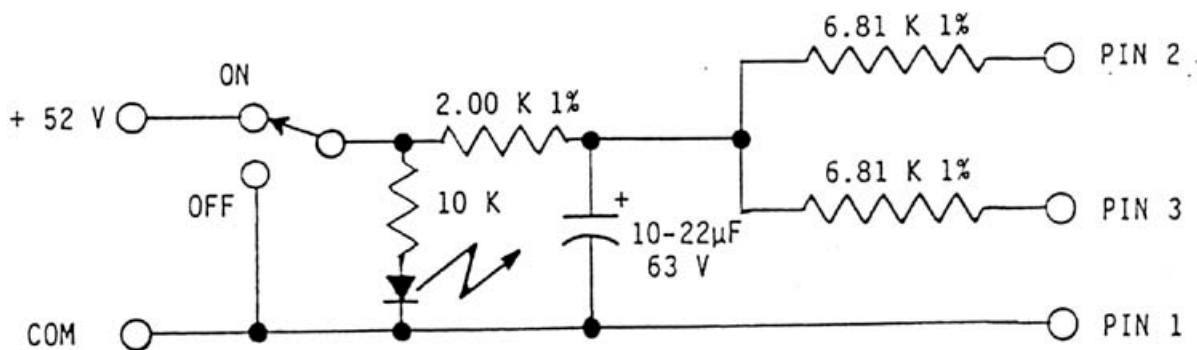
jensen transformers
INCORPORATED

NEUMANN ONLY



UNIVERSAL CIRCUIT

Compatible with: AKG 12V & 48V, Neumann,
Sennheiser 48V, Schoeps,
Shure SM81 & SM85, Crown PZM



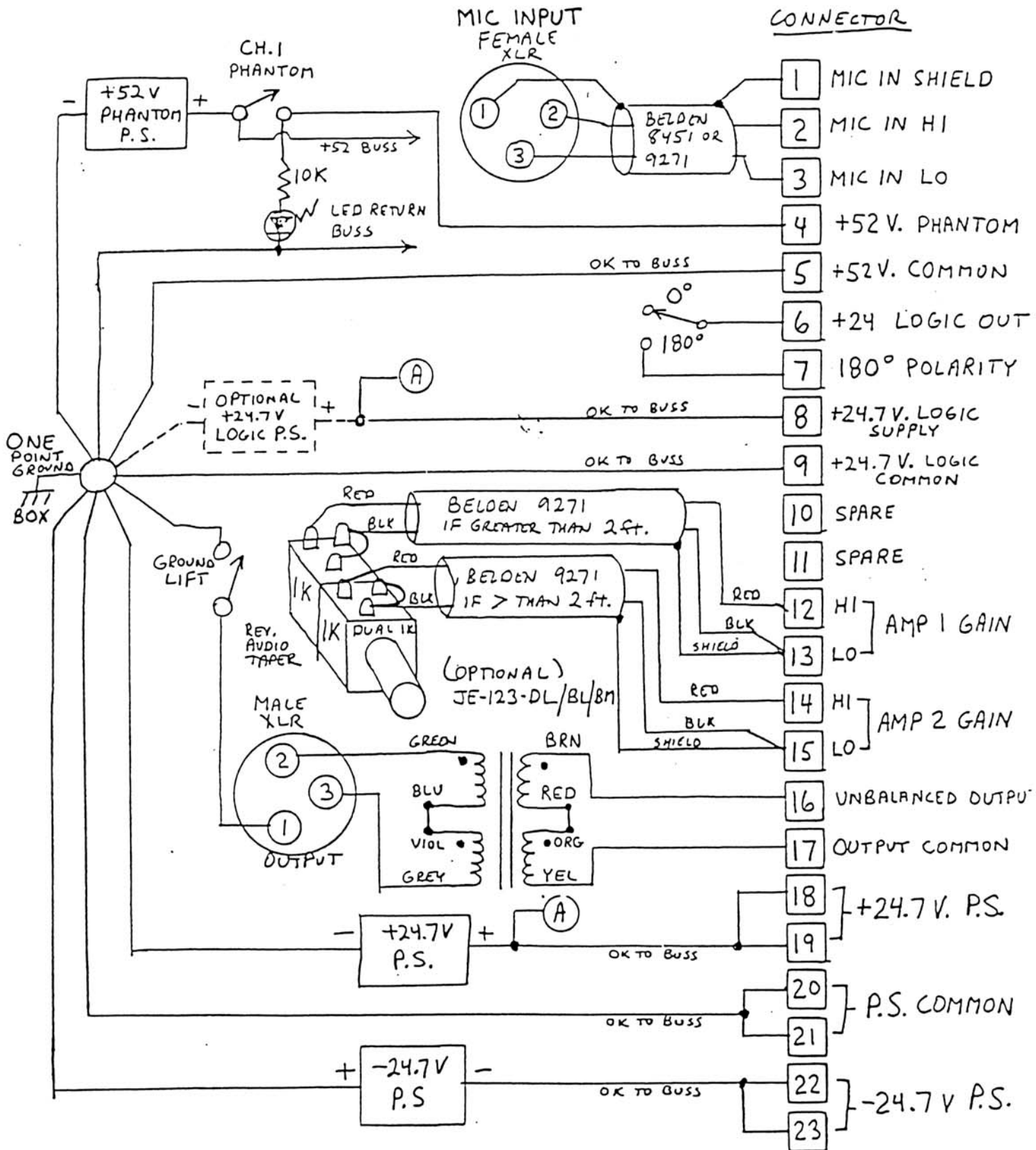
NOTES:

1. Match 6.81 K resistors as closely as possible, absolute value is not critical. Roederstein (Resista) MK-2 series metal film recommended.
2. LED/10 K resistor combination is optional to indicate powered channel.
3. Note that switch is wired to discharge filter capacitor through the 2.00 K resistor when power is turned off.
4. Maximum current demand (shorted terminals) is:
15 mA with LED indicator
10 mA without LED

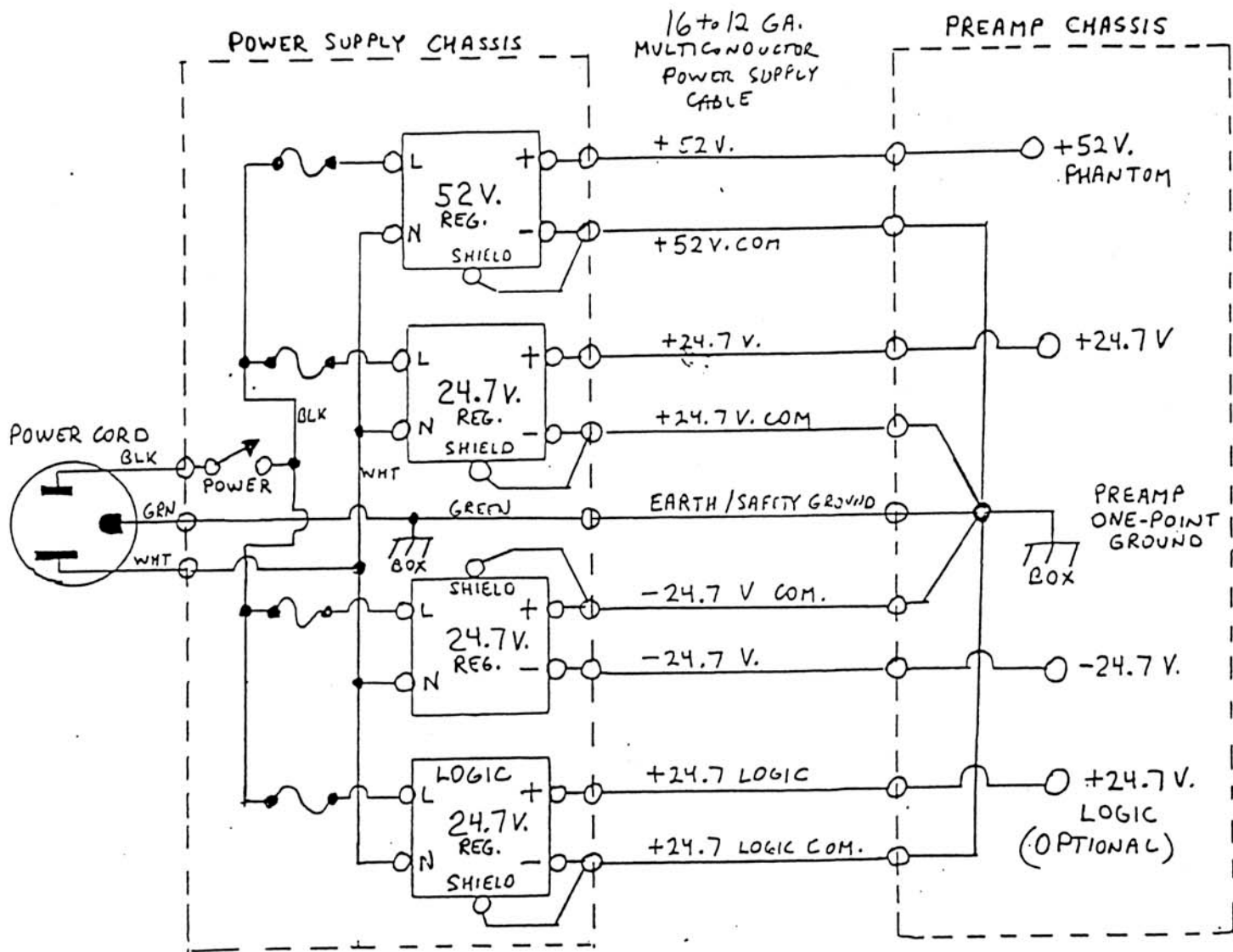
REV. 7-17-84

HOOK-UP DIAGRAM

REV.
10-20-83



TWIN SERVO
APPLICATIONS:
SAFE, CLEAN POWER SUPPLY
FOR HIGH QUALITY AUDIO
SHOWING PROPER GROUNDING &
ROUTING OF POWER SUPPLY WIRING

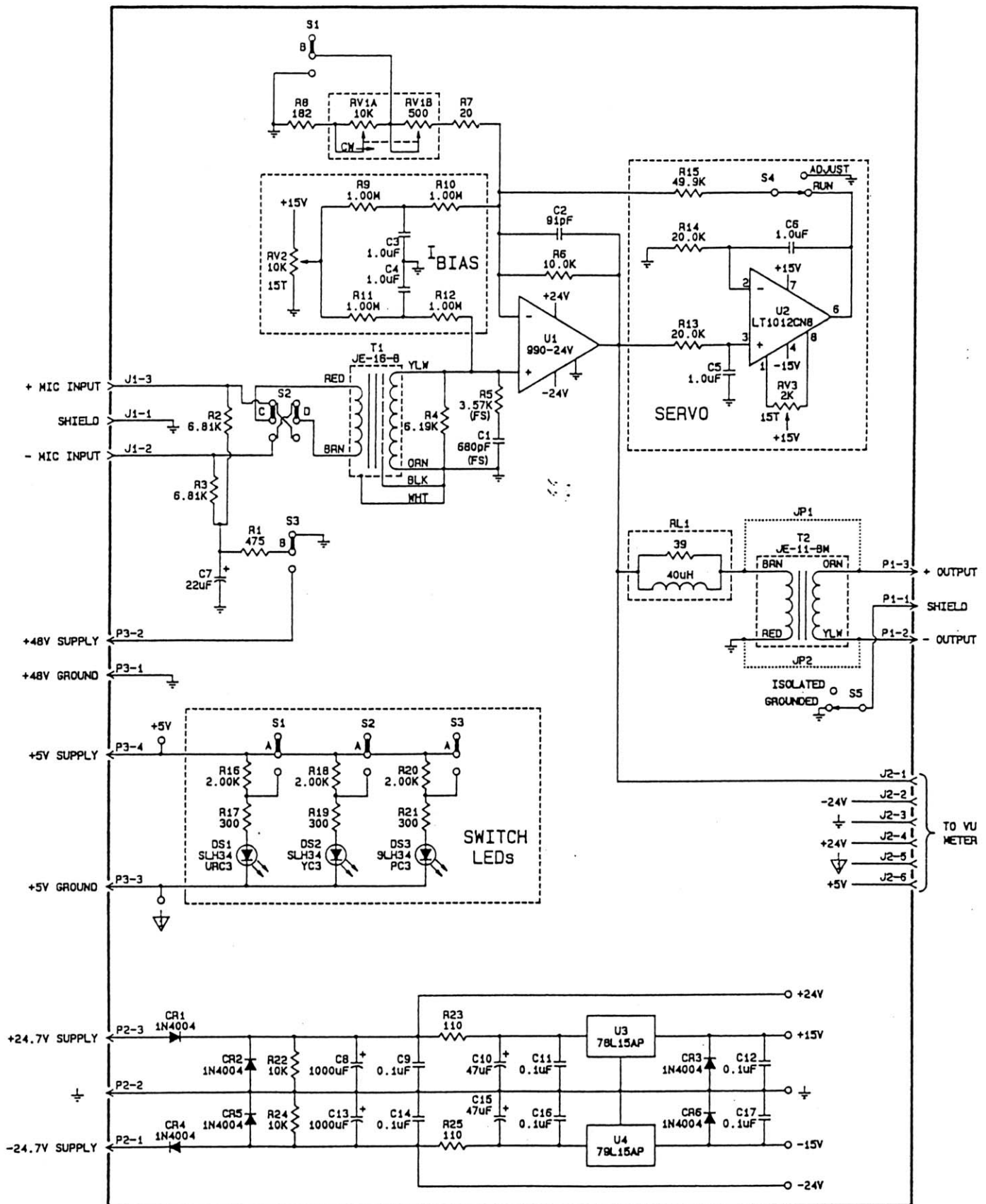


NOTES:

1. 24.7 VOLT POWER SUPPLIES ARE POWERTEC OEM II SERIES OR EQUAL
2. 52 VOLT POWER SUPPLY IS TSS-006 UNIVERSAL PHANTOM POWER SUPPLY CARD. OR EQUAL
3. POWER SUPPLY CABLE IS MULTIPLE-CONDUCTOR (16 GA. MINIMUM) CONTROL CABLE
4. NOTE THAT NO CURRENT FLOWS IN EARTH/SAFETY GROUND WIRE
5. ALL COMMONS IN PREAMP MUST TIE DIRECTLY TO ONE-POINT GROUND
6. LOGIC SUPPLY IS NOT NECESSARY FOR TSS-M2 TWIN SERVO CARDS. TO USE +24.7 VOLT SUPPLY FOR LOGIC, DELETE "+24.7V. LOGIC COMMON" CONDUCTOR. AND CONNECT "+24.7 VOLT LOGIC" CONDUCTOR TO +24.7V SUPPLY INSIDE POWER SUPPLY BOX.

REV. 10-20-83

MPC-1

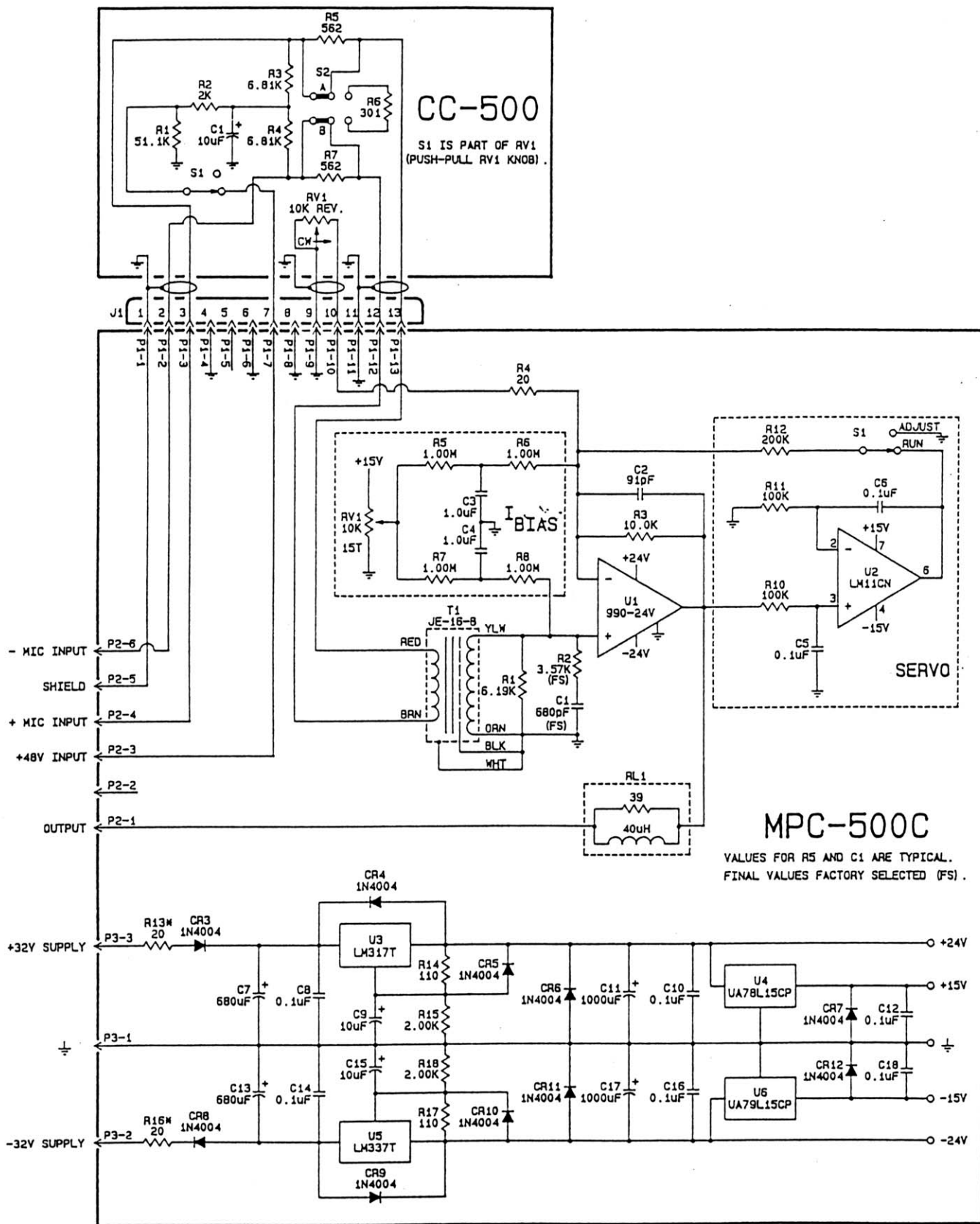


PUSHBUTTON SWITCHES SHOWN IN UP POSITION.

VALUES FOR R5 AND C1 ARE TYPICAL. FINAL VALUES ARE FACTORY SELECTED (FS).

THE JOHN HARDY CO.
1728 BRUMMEL ST.
P.O. BOX AA631
EVANSTON, IL 60204
(312) 864-8060
DRAWING #86061201P

MPC-500C & CC-500



*THESE RESISTORS MAY BE REPLACED WITH JUMPERS
FOR CUSTOM APPLICATIONS.

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EVANSTON, IL 60204
(312) 864-8060
DRAWING #86070801J

