
2600 Audio Console

TECHNICAL MANUAL



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2600 Audio Console Technical Manual - 1st Edition

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2600 Technical Manual

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Installation

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Installation

Installing the Console

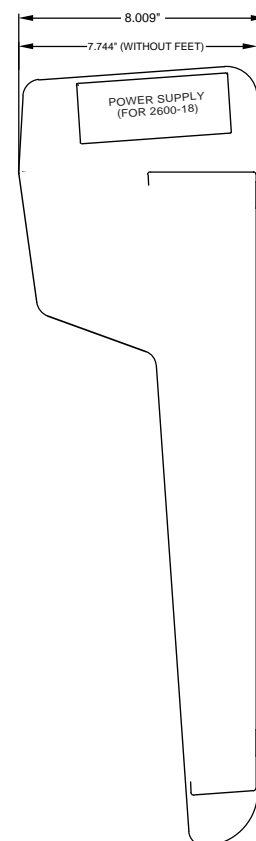
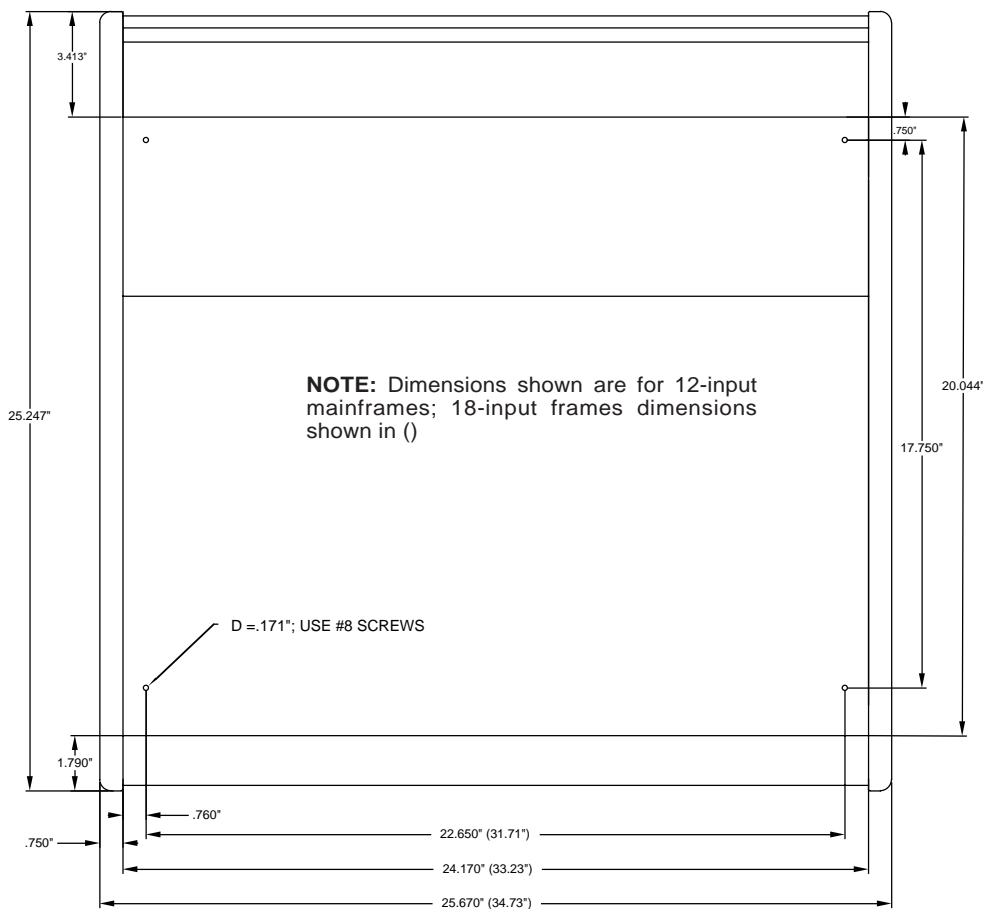
The 2600 console is shipped in a single carton, held in place with foam blocks.

The 2600 audio console is designed for countertop mounting. Console placement should avoid proximity to any electromagnetic fields, such as large power transformers, motors, and fluorescent lighting fixtures. If you will be securing the console to the counter top, you may want to pre-drill the mounting holes (see sketch below).

Set the console in place on the counter, and remove the screws that hold down the first and the last modules in place (two per module). Carefully remove those modules from the frame. Attach the console mainframe to the counter top, using the holes provided in the bottom of the chassis and screws appropriate to the counter material, and reinstall the removed modules.

The console extends approximately 8" above the countertop at the meterbridge. The hinged meterbridge will require 15" above the countertop surface and 5" behind the rear meterbridge to open freely.

NOTE: This console contains static-sensitive devices. Normal precautions against static discharge should be observed when handling individual modules.



Power Supply

2600-12 Console

The 12-input 2600 console is powered by a built-in power supply.

The power supply connector, that is located on the right side of the power supply, wires to the PS-2600 PCB with wire gauge 16AWG as shown below:

- Pin 1 [RED]: +V
- Pin 2 [BLK]: Analog Ground
- Pin 3 [BLU]: -V
- Pin 4 [VIO]: Phantom
- Pin 5 : N/C
- Pin 6 [GRN]: Phantom Ground
- Pin 7 [ORG]: +Digital
- Pin 8: N/C
- Pin 9 [BRN]: Digital Ground

Connect the console's power cord to a clean 120V AC outlet (that is, an AC source that feeds only the control room audio gear).

2600-18 Console

The 18-input console is powered by a model PS-6040 power supply. Mount the PS-6040 power supply in a standard 19" equipment rack, keeping in mind that adequate ventilation is necessary to prevent heat build-up within the rack.

Once the supply is rackmounted, it should be connected to the console using the factory supplied cable. The cable has two different types of 9-pin connectors on its end: a plastic shell connector that connects to the console's power supply connector, and a multi-pin cable-mount connector that plugs into the PS-6040 power supply. The console's power supply connector is located at the rear of the console, at the right end of the meterbridge bottom pan.

Note that the power supply cable's 9-pin female connector has to be rotated until its locating pins match the male connector on the power supply. Do not force a connector on; it attaches easily when properly aligned. Connect the cable first to the console, then to the rear of the rackmount power supply.



2600-18 PS Cable Pinout

Power Supply End			Console End		
PIN		PIN			
ORG	1	← +5V Digital →	3	ORG	
YEL	2	← +5V Digital →	2	YEL	
GRN	3	← Digital Common →	8	GRN	
BLK	4	← Audio Common →	1	BLK	
N/C	5	← N/C →	5	N/C	
BLU	6	← -18V →	7	BLU	
BRN	7	← Audio Common →	6	BRN	
VIO	8	← +40V Phantom →	9	VIO	
RED	9	← +18V →	4	RED	

Note each power supply is fitted with a 3-wire grounded AC cord that should be plugged into a "clean" AC power source, that is, an AC source that feeds only the control room audio gear. This source should be a separate feed from those powering lighting, air-conditioning, or any other non-audio machinery. The third pin ground wire of the AC

The power feed recommended in the text is often installed and referred to in studios as an "isolated AC ground" outlet. It is usually orange in color.

source should be tied to the central system ground point. *Note that while the AC power cord ground wire terminates at the power supply chassis, it does NOT connect to the 2600 console common; the console itself must be grounded separately. (See section "System Ground" below).*

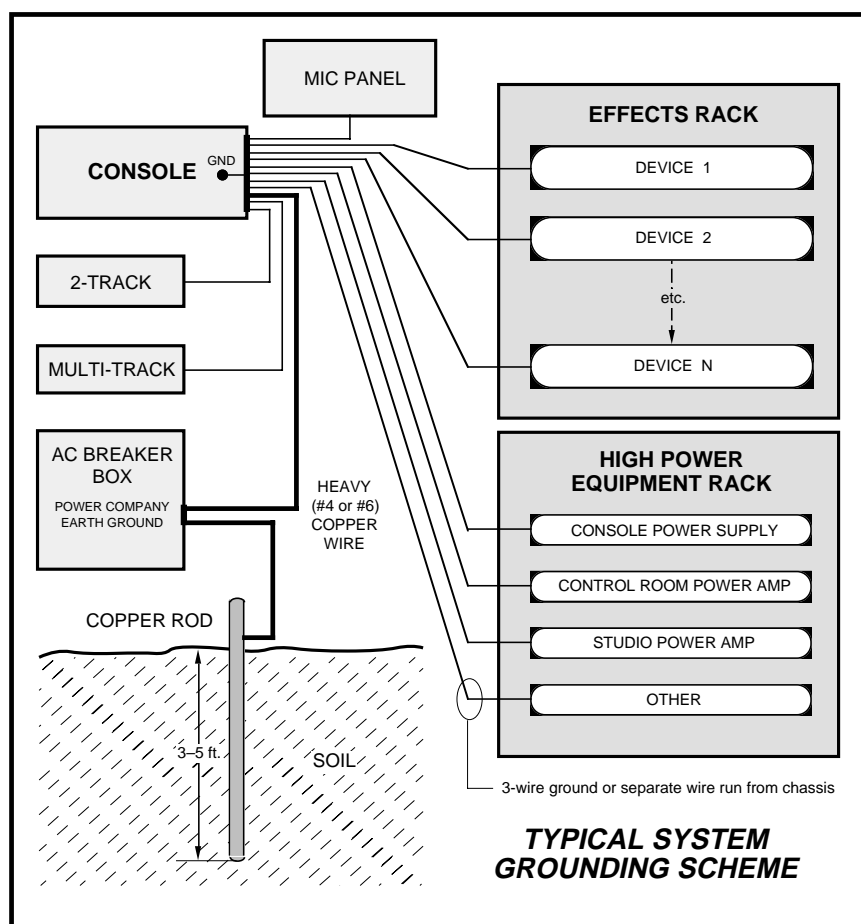
Once it is plugged in, the console will power up; the VU meters will light up, and all modules OFF switches will activate.

The first major installation step is to make sure the console is properly grounded. Once this is accomplished, audio and control connections may be made.

System Ground

The first step is to ground the console.

Safety requirements dictate that a positive connection from the console mainframe to electrical ground be made in the completed installation. Use the grounding lug on the rear of the mainframe to establish your system ground. The grounding lug may be found at the rear of the console, on the rear frame panel, to the left if you are looking at the rear of the console.



Tie the console ground lug terminal strip to the system earth ground. Tie every piece of equipment in the entire audio system to the console ground lug terminal strip.

The system ground serves two important purposes:

- (1) It provides a zero signal reference point for the entire audio system;
- (2) It assures safety from electrical shock.

There exist two terms that one encounters in a discussion of ground:

(A) EARTH GROUND, which is usually a heavy copper rod driven into the soil adjacent to the building (around 6 feet down) or a connection to the copper water pipes leading into the building. Either is acceptable (unless, of course, the water pipe is made of plastic).

(B) THE POWER COMPANY EARTH CONDUCTOR that enters the building at the power line breaker box; this conductor should be (and is often by code) tied to the above-mentioned earth ground at one point. This point is the SYSTEM EARTH GROUND.

TIE THE CONSOLE GROUND LUG TO THE SYSTEM EARTH GROUND. TIE EVERY PIECE OF EQUIPMENT IN THE ENTIRE AUDIO SYSTEM TO THE CONSOLE GROUND LUG. If the system earth ground point is inaccessible, tie the console ground lug to the power company earth conductor at the main breaker box (see drawing "Typical Grounding Scheme" above).

Each piece of equipment should be connected by its own ground wire (usually the round third pin on the AC cord). This means that every AC outlet must have a separate conductor run to the console ground lug; the outlets cannot be daisy-chained as is normally encountered in commercial and residential AC systems. Any equipment not supplied with 3-wire AC cables must have individual ground wires (16 gauge or larger) connected to their chassis grounds and then run to the console ground lug.

Further Grounding Details

Check all equipment to be absolutely certain that each unit is power transformer isolated from the AC mains to prevent safety hazards.

It is assumed that in each piece of audio equipment the audio ground and the chassis are tied together at some point. Any piece of equipment lacking a grounded chassis is likely to be prone to interference problems.

Locate all unbalanced audio equipment in the same rack if possible, to minimize chassis ground potential differences. It may also be helpful to insulate each piece of unbalanced equipment from its mounting rails in the rack by means of nylon 10-32 screws and insulating washers between rails and faceplates.

Once the system is properly grounded, proceed with the console connection (next section).

Audio and Control Wiring

All audio and control I/O connections to the 2600 console are made through multipin DB-25 connectors located on the top of each module. The output module also has a DB-9 connector.

Connection Procedures

As supplied from the factory, the console requires no logic connections to function. Therefore an orderly installation begins with the audio wiring. Note this manual is organized by module type (inputs, outputs, monitor modules, etc.); each chapter contains detailed wiring instructions for its module type. Proceed through the manual, chapter by chapter, until all modules have been wired to suit your particular installation requirements. Once proper audio operation is verified, go back to each individual chapter and proceed with control wiring.

Analog Insert Points

The MONO MIC INPUTS (MM-2600) have insert patch points in their signal chains to allow outboard audio processing.

Normally these points are internally bridged at the factory (via PCB-mounted programming dipswitch) prior to shipment. If you intend to use outboard signal loops at these points, you must reprogram this dipswitch. See page 2-3 (mic inputs).

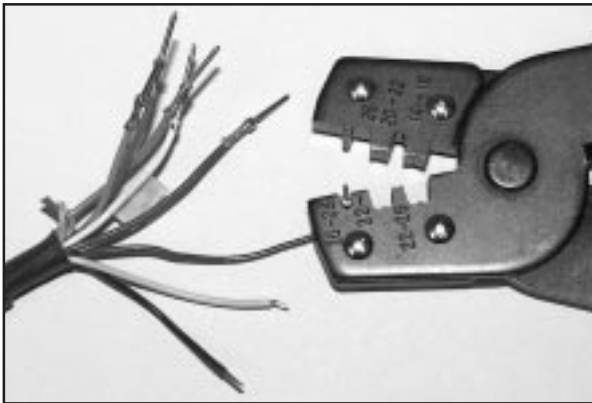
Unbalanced Connections (analog audio)

ANALOG INPUTS — Wire to the console with typical shielded two conductor cable (like Belden 9451), just as if you were connecting a balanced source. At the unbalanced source machine's output, connect the black wire (LOW) to the shield. If the machine has a -10 dBv output, don't hesitate to turn module input gain as high as is needed.

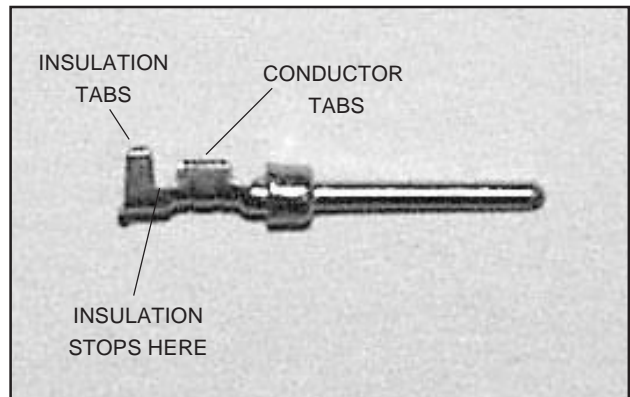
ANALOG OUTPUTS — 2600 consoles use a balanced output circuit which behaves exactly like the secondary of a high-quality transformer, with no center tap—this output is both balanced and floating. Either the HIGH or LOW side of the output should be strapped to ground, with the output taken from the other side. (Normally you'd strap LOW to ground, and take HIGH to feed your unbalanced equipment.

HAND CRIMP TOOL WIRING INSTRUCTIONS

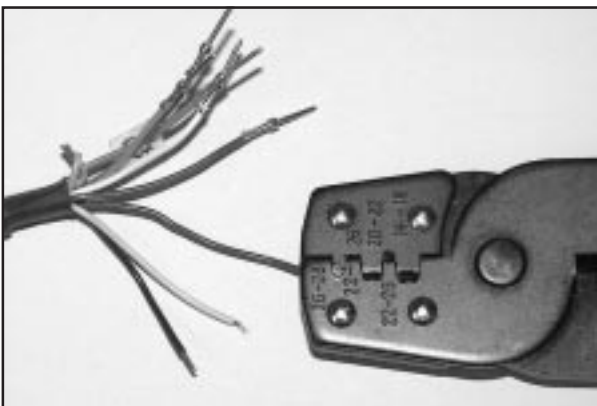
The supplied hand crimping tool (W/S#850068) is used for all I/O wiring connections to and from the console. It is to be used with the supplied pin (figure 1) intended for 24"-28" gauge wire.



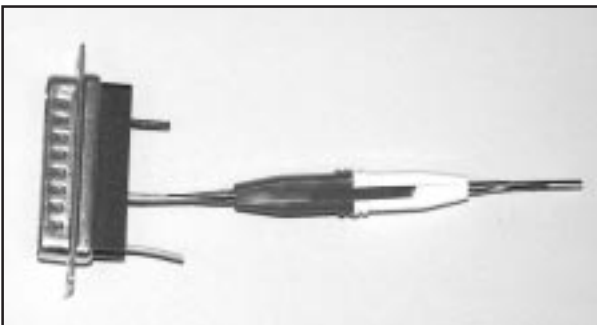
(2) The terminal conductor tabs with stripped wire are placed in anvil 26-28.



(1) Pin crimp terminal



(3) Jaws fully closed; the insulation tabs have been crimped.



(4) Place extractor tip over pin terminal to be removed.

1) Strip wire approximately 3/16" (insert in proper wire stripper, rotate one half turn, and pull insulation off wire).

2) Insert wire into terminal until wire insulation is stopped by conductor tabs, and place the conductor tabs on the anvil marked as 26-28 (figure 2).

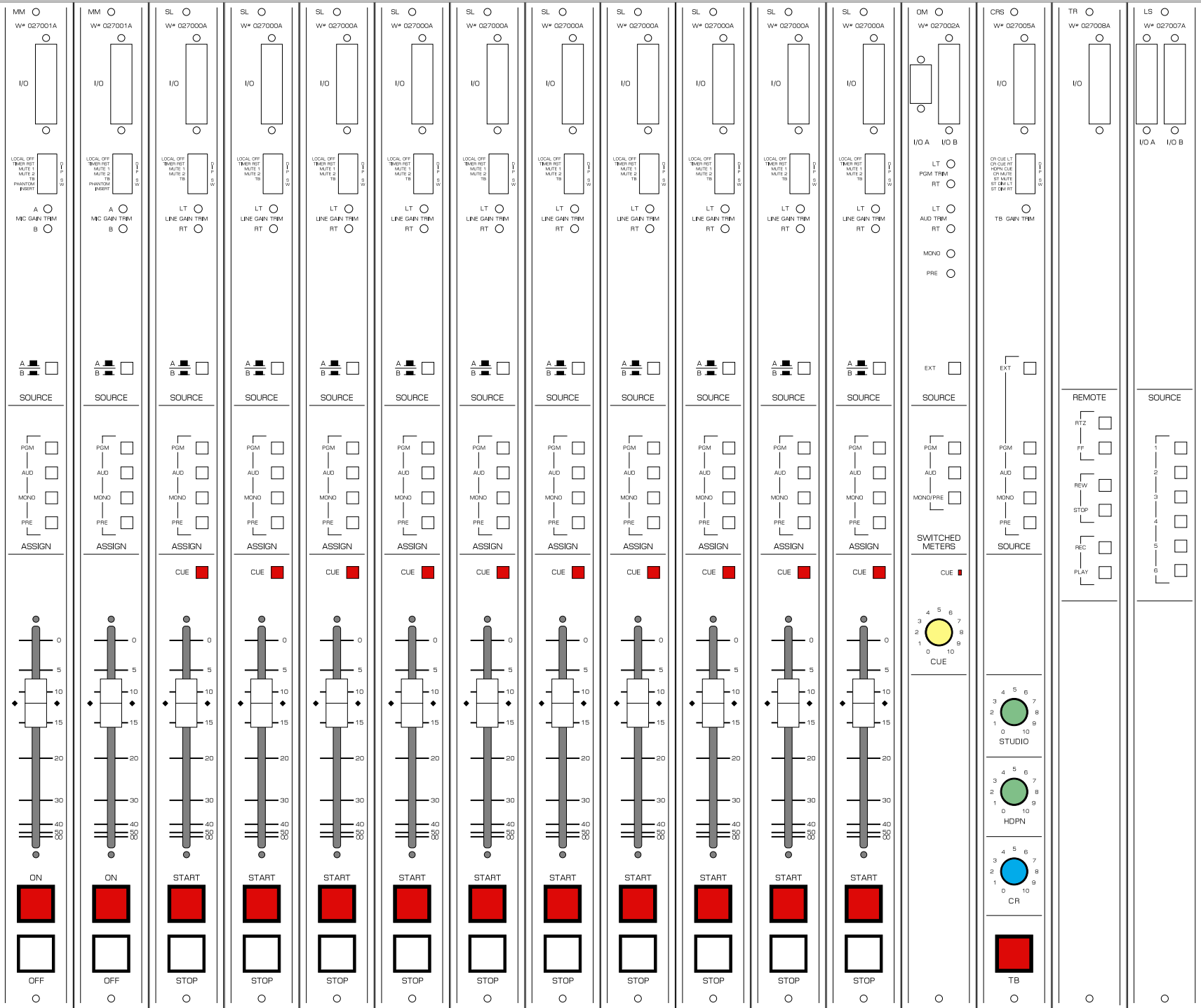
3) CRIMP by squeezing handles until jaws are fully closed to secure wire in the terminal (figure 3).

4) If there is an insertion error or if a circuit change is needed, you'll need to use the supplied pin extractor tool (W/S#850069) to remove terminals, and correct your mistake without having to sacrifice a connector. Place extractor tip (red side) over pin terminal to be removed (figure 4), and press it downwards motion until tip rests upon Housing. Then pull out the pin terminal from Housing. It should never be necessary to discard a connector due to a wiring error.

Note that metallized plastic hoods for each connector are also supplied with the console.

Module Layout

The 2600 console's mainframe comes supplied with 12 input modules (2600-12) or 18 input modules (2600-18) along with an output module and a control room/studio module. Each module type has its assigned slot (see drawing on page 1-9). Also there can be optional modules: a line select module and tape remote module. Optional modules can be placed in any input slot, or in the two slots to the right of the control room/studio module.



- NOTE: 1. CONSOLE CAN ACCOMMODATE UP TO 12 (FOR CONSOLE 2600-12) OR 18 (FOR CONSOLE 2600-18) INPUT MODULES IN ANY COMBINATION.
2. THE MIC MODULES SHOULD BE LOCATED AT THE LEFT SIDE OF THE CONSOLE.
- IN 2600-12 CONSOLE THE MIC INPUT CABLES SHOULD BE ROUTED TO THE LEFT SIDE OF THE POWER SUPPLY. KEEP THE MIC CABLES AS FAR AWAY FROM THE FRONT OF THE POWER SUPPLY AS POSSIBLE.
3. OPTIONAL MODULES—LINE SELECT AND TAPE REMOTE—CAN BE PLACED IN ANY SLOT POS.1-12 (FOR 2600-12) AND IN ANY SLOT POS 1-18 (FOR 2600-18), OR IN TWO SLOTS AT THE RIGHT END OF THE FRAME. DO NOT INSTALL INPUT MODULES IN THESE SLOTS.

2600 CONSOLE - MODULE LAYOUT

Mono Mic Input Module (MM-2600)

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Mono Mic Input Module (MM-2600)

Module Overview

MM-2600 modules are for microphone input signals (-50dBu nominal). Each module accepts two mono sources: A and B, switched at the top of the module.

Phantom power is available at both input ports; it may be selectively activated by a dipswitch SW1 pos 2 (the factory default is OFF). Recessed front panel multi-turn trimpots (range 38dB) adjust the level of the A and B inputs independently.

Example: with a microphone input of -60dBm @150 at the port, gain trim can set levels from -22dBu to +16dBu (note maximum preamp gain is +76dB).

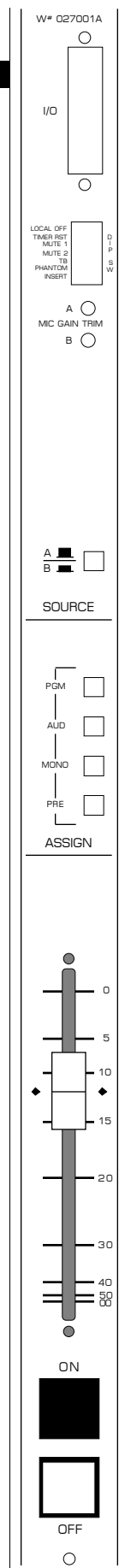
An analog insert point (-10dBu unbalanced) is provided: it is post-trim and may be internally bypassed, which is the factory default setting.

Output switches assign the selected source signal to any combination of the console's four outputs: two stereo outputs—PGM (program) and AUD (audition); and two mono outputs—MONO and PRE.

Level is set by a long-throw fader.

The channel ON and OFF switches are at the bottom of the module. In addition to being controlled remotely, these can also be programmed (via dipswitch) to perform a variety of console control functions, including activating control room and studio mutes, talkbacks, external tallies, and timer restart.

All audio and control input and output signals are made via a multi-pin DB-25 connector mounted on the top of each individual module and located underneath the hinged meterbridge.



Internal Programming Options

Internal programming for the mono mic module is made via printed circuit board (PCB) mounted dipswitch SW1 located on the top of the module (beneath of the DB-25 connector). Note when a dipswitch position is thrown to the right it is ON.

Insert Bypass

Dipswitch SW1 position 1 will bypass the module's insert point in and out of the audio signal chain. Note that the factory default is "insert bypassed". In other words, when shipped from the factory SW1 position 1 is thrown to the right.

Phantom Power

Dipswitch SW1 position 2 turns phantom power on for the module's two microphone input ports.

Note the factory default setting for phantom power is OFF.

Note: 2600-12 console - Phantom voltage = 16V (16 volts may not be sufficient for some older microphones); 2600-18 console - Phantom voltage = 40V.

Mutes

When a microphone is live in a room, that room's monitor speakers must be muted to prevent feedback. The 2600 console has two mute control lines: control room and studio. Each of these is activated by an A microphone input. The dipswitch SW1 programs these muting functions:

SW1 position 4 mutes the studio when source A is ON

SW1 position 5 mutes the control room when source A is ON

Timer Restart

The console's digital timer can be programmed to automatically reset to zero and begin counting up when the module's ON button is pressed.

SW1 position 6 activates timer restart

Local/Ready

The module's channel OFF switch normally has its LED indicator controlled by the switch itself (Local). This is the factory default setting. However, should you wish to have the LED function as a Ready light for an external source machine, dipswitch SW1 position 7, when thrown to the left, passes control to the Ready input on the module's DB-25 connector. A closure between the Ready input (DB-25 pin 2) and Digital Ground (DB-25 pin 19) will activate the OFF switch LED. As long as the closure is maintained, the LED will be lit.

Talkback

Typically, one of the 2600 console's input modules will be used for the control room (CRS) console operator's microphone. The third position of the dipswitch SW1 allows that microphone to also function as a talkback mic. It places the signal (pre-fader, pre-on/off) onto the console's talkback bus. When the console operator presses a TB switch on the console's CRS-2600 Control Room/Studio module, the talkback bus (which is carrying his microphone signal) will interrupt the regular monitor signal being fed to the studio and talent will hear his voice through the studio monitor speakers.

In order for the studio to reply to the console operator, the MM-2600 module controlling the studio's microphone signal must be routed to the console's cue bus, where it can interrupt the regular control room monitor feed and be heard by the operator. This is accomplished by a user-supplied TB switch in the studio. The switch provides a momentary closure between the module's DB-25 connector "TB to CR" control pin and Digital Ground (see page 2-7 for wiring details). As long as this closure is maintained (i.e., as long as talent holds down the studio TB button) the module's (pre-fader, pre-on/off) signal will be placed on the console's Cue bus.

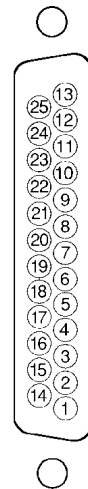
Hook-Ups

As stated before, all user wiring to and from MM-2600 modules takes place at the DB-25 multi-pin connector mounted on the top of each module. A pinout drawing on page 2-7 shows all wiring connections at a glance.

Audio Connections

These include A and B mic inputs, and insert in and out. The mic input level is nominally -50dBu. Insert points are -10dBu unbalanced in and out. All signals are analog mono.

- Pin 25 – Mic A In SH
- Pin 24 – Mic A In HI
- Pin 12 – Mic A In LO
- Pin 11 – Mic B In SH
- Pin 10 – Mic B In HI
- Pin 23 – Mic B In LO
- Pin 22 – Insert Out SH
- Pin 21 – Insert Out HI
- Pin 9 – N/C



Typical DB-25
connector

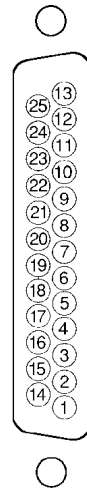
Pin 8 – Insert In SH
 Pin 7 – Insert In HI
 Pin 20 – N/C

Note the insert points are normally bypassed by PCB-mounted dipswitch SW1 pos 1 (see page 2-3). The Insert Out pins may be used as a channel direct output if desired.

Control Connections

These include remote on and off, cough, talkback and tally functions.

Pin 1 – Cough
 Pin 2 – Ready
 Pin 3 – Start
 Pin 4 – Stop
 Pin 5 – Start/Stop Com
 Pin 6 – Tally B
 Pin 14 – Remote On
 Pin 15 – On Tally
 Pin 16 – Remote Off
 Pin 17 – TB to CR
 Pin 18 – +5V Digital
 Pin 19 – Digital Ground



Typical DB-25
connector

To Turn the Module ON & OFF from a Remote Location

REMOTE ON — Activates the module's channel ON switch. Provide a momentary closure between Pin 14 (Remote On) and Digital Ground (Pin 19). This will latch the module ON. (User-supplied momentary contact switch required.)

REMOTE OFF — Activates the module's channel OFF switch. Provide a momentary closure between Pin 16 (Remote Off) and Digital Ground (Pin 19). This will latch the module OFF. (User-supplied momentary contact switch required.)

COUGH — Temporarily Mutes the module. Provide a closure between Pin 1 (Cough) and Digital Ground (Pin 19). This will turn the module OFF. Note this is a non-latching mode; the module will turn ON again as soon as the closure stops. (User-supplied momentary contact switch required.)

To START and STOP Remote Source Machines Using Module ON/OFF Switches

EXTERNAL START — Hook up the remote machine's Start control pins to the MM-2600 module's DB-25 connector control pins: for START wire to pins 3 and 5.

EXTERNAL STOP — Hook up the remote machine's Stop control pins to the MM-2600 module's DB-25 connector control pins: for STOP wire to pins 4 and 5.

To Control the Module's OFF Switch LED with an External Source Machine

READY — Hook up the remote machine's Ready output to the MM-2600 module's DB-25 connector pin 2 (Ready) and pin 19 (Digital Ground). The module's Ready port is looking for a contact closure. As long as the closure is maintained the OFF switch LED will be illuminated.

Talkback to Control Room

If an MM-2600 module is being used for a studio microphone, this connection allows talkback from that studio to the console operator. Provide a closure between Pin 17 (TB to CR) and Digital Ground (Pin 19). This will cause the module's pre fader signal to be sent to the console's Cue bus, where it may be heard by the console operator. This non-latching condition continues until the closure is released. (Requires user-supplied momentary action TALKBACK switch at the studio microphone location.)

On Tally

Lets the module's channel ON switch control an on-air light or other "microphone on" indicator at a remote location. This control function provides a continuous +5 volt signal at Pin 15 (On Tally) whenever the module is ON.

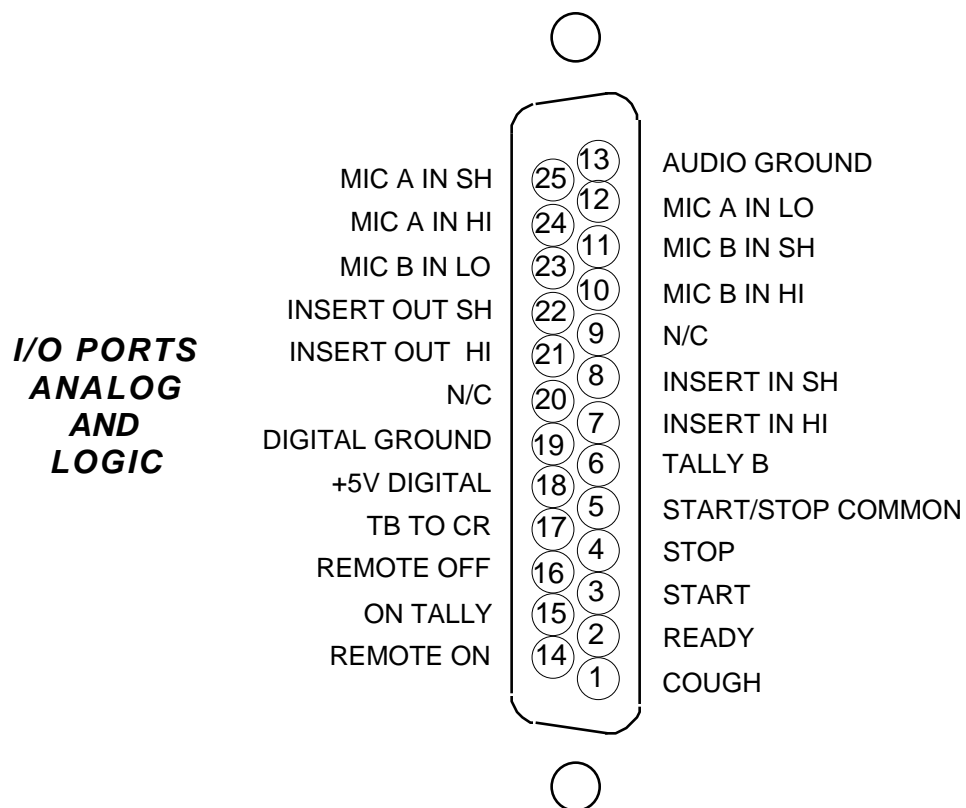
This signal can be used to control an externally powered tally light that requires a continuous signal to function. Or an external tally light (i.e., LED) can be powered from the input module by connecting the external LED to Digital Ground (Pin 19) and the On Tally port. In either case, current should not exceed 30 milliamps.

Tally B

Provides a remote indication that the module's B source has been selected. This control function provides a continuous closure (open collector) between Pin 6 (Tally B) and Digital Ground (Pin 19) whenever the B source is selected.

This closure can be used to control an externally powered tally light that requires a continuous closure to function. An external tally light (i.e., LED) can be powered from the input module by connecting the external LED to +5V Digital (Pin 18) and the B Tally port. Current should not exceed 30 milliamps.

MM-2600 Mono Mic Input *DB Connector Pinouts*



Stereo Line Input (SL-2600)

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Stereo Line Input (SL-2600)

Module Overview

SL-2600 modules are for stereo line input signals.

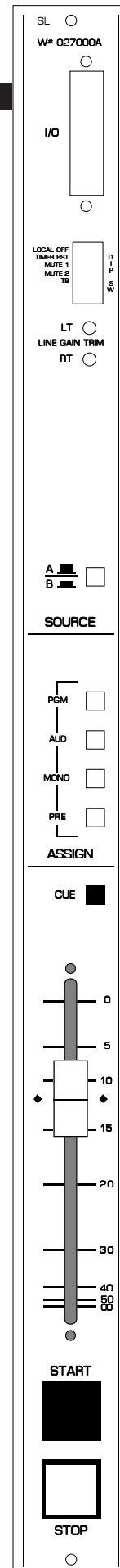
Each module accepts two stereo sources: A and B, switched at the top of the module. Recessed front panel multi-turn trimpots adjust the left and right levels. Output switches assign the selected source signal to any combination of the console's four outputs: two stereo outputs—PGM (program) and AUD (audition); and two mono outputs—MONO and PRE.

A CUE switch places the module's signal on the console's cue bus, where it may be heard on the meterbridge mounted cue speaker and/or as an interrupt to the console operator's headphones and/or control room monitor speakers. The various cue interrupt modes are programmed at the console's CRS-2600 (Control Room/Studio) module via PCB-mounted dipswitch. See page 5-3.

Level is set by a long-throw fader.

Channel ON (START) and OFF (STOP) switches are at the bottom of the module. In addition to being controlled remotely, these can also be programmed (via internal PCB-mounted dipswitch) to perform a variety of functions, including starting and stopping external source machines, activating control room and studio mutes, external tallies, and timer restart. The STOP switch's LED can be controlled by an external source machine to act as a "ready" indicator.

All audio and control input and output signals are made via the multi-pin DB-25 connector mounted on the top of the module and located underneath the hinged meterbridge.



Internal Programming Options

All internal programming is made via PCB mounted dipswitch SW1 located on the top of the module (beneath of the DB-25 connector). Note when a dipswitch position is thrown to the right it is ON.

Mutes

Like MM-2600 inputs, an SL-2600 module can be programmed to mute speakers when the channel is ON. The 2600 console has two mute control lines: control room and studio. Each of these is activated by an A input source.

SW1 position 4 mutes the studio when source A is ON

SW1 position 5 mutes the control room when source A is ON

Timer Restart

The console's digital timer can be programmed to automatically reset to zero and begin counting up when the module's ON button is pressed.

SW1 position 6 activates timer restart*

*factory default settings

Local/Ready

The module's channel OFF switch normally has its LED indicator controlled by the switch itself (Local). This is the factory default setting. However, should you wish to have the LED function as a Ready light for an external source machine, dipswitch SW1 position 7, when thrown to the left, passes control to the Ready input on the module's DB-25 connector. A closure between the Ready input (DB-25 pin 2) and Digital Ground (DB-25 pin 19) will activate the OFF switch LED. As long as the closure is maintained, the LED will be lit.

Talkback

Typically, one of the 2600 console's input modules will be used for the control room (CRS) console operator's microphone. The third position of the dipswitch SW1 allows that microphone to also function as a talkback mic. It places the signal (pre-fader, pre-on/off) onto the console's talkback bus. When the console operator presses a TB switch on the console's CRS-2600 Control Room/Studio module, the talkback bus (which is carrying his microphone signal) will interrupt the regular monitor signal being fed to the studio and talent will hear his voice through the studio monitor speakers.

In order for the studio to reply to the console operator, the SL-2600 module controlling the studio's microphone signal must be routed to the console's cue bus, where it can interrupt the regular control room monitor feed and be heard by the operator. This is accomplished by a user-supplied TB switch in the studio. The switch provides a momentary closure

between the module's DB-25 connector "TB to CR" control pin and Digital Ground (see page 3-7 for wiring details). As long as this closure is maintained (i.e., as long as talent holds down the studio TB button) the module's (pre-fader, pre-on/off) signal will be placed on the console's Cue bus.

Hook-Ups

As stated before, all user wiring to and from SL-2600 modules takes place at the DB-25 multi-pin connector mounted on the top of each module. There is one connector per module. Pinout drawings on page 3-7 show all wiring connections at a glance.

Audio Connections

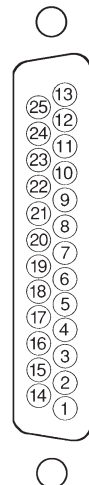
These include A and B source inputs; level is +4dBu balanced.

- Pin 25 – Line A In Lt SH
- Pin 24 – Line A In Lt HI
- Pin 12 – Line A In Lt LO
- Pin 11 – Line A In Rt SH
- Pin 10 – Line A In Rt HI
- Pin 23 – Line A In Rt LO
- Pin 22 – Line B In Lt SH
- Pin 21 – Line B In Lt HI
- Pin 9 – Line B In Lt LO
- Pin 8 – Line B In Rt SH
- Pin 7 – Line B In Rt HI
- Pin 20 – Line B In Rt LO

Control Connections

All control ports (except Tally) are opto-isolated. Functions include remote on and off, tally, ready, and start/stop for remote source machines.

- Pin 1 – Cough
- Pin 2 – Ready
- Pin 3 – Start
- Pin 4 – Stop
- Pin 5 – Start/Stop Com
- Pin 6 – B Tally
- Pin 14 – Remote On
- Pin 15 – On Tally
- Pin 16 – Remote Off
- Pin 17 – TB to CR
- Pin 18 – +5V Digital
- Pin 19 – Digital Ground



Typical DB-25 connector

To Turn the Module ON & OFF from a Remote Location

In the case of stereo line input modules, “remote location” can also refer to a remote source machine that is feeding its audio to the module in question. A contact closure (which may be sourced by the external machine), will activate the module’s channel ON and OFF switches.

REMOTE ON — Activates the module’s channel ON switch. Momentary connect Pin 14 (Remote On) and Digital Ground (Pin 19) to latch the module ON.

REMOTE OFF — Activates the module’s channel OFF switch. Momentary connect Pin 16 (Remote Off) and Digital Ground (Pin 19) to latch the module OFF.

COUGH — Temporarily Mutes the module. Provide a closure between Pin 1 (Cough) and Digital Ground (Pin 19). This will turn the module OFF. Note this is a non-latching mode; the module will turn ON again as soon as the closure stops. (User-supplied momentary contact switch required.)

To START and STOP Remote Source Machines Using Module ON/OFF Switches

EXTERNAL START — Hook up the remote machine’s “start” control pins to the SL-2600 module’s DB-25 connector control pins: for START wire to Pins 3 and 5.

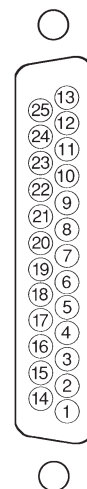
EXTERNAL STOP — Hook up the remote machine’s “stop” control pins to the SL-2600 module’s lower DB-25 connector control pins: for STOP wire to Pins 4 and 5.

To Control the Module’s OFF Switch LED with an External Source Machine

READY — Hook up the remote machine’s Ready output to the SL-2600 module’s DB-25 connector pin 2. The module’s Ready port is looking for contact closure. As long as the closure is maintained, the module’s OFF LED will be illuminated.

Talkback to Control Room

If an SL-2600 module is being used for a studio microphone, this connection allows talkback from that studio to the console operator. Provide a closure between Pin 17 (TB to CR) and Digital Ground (Pin 19). This will cause the module’s pre fader signal to be sent to the console’s Cue bus, where it may be heard by the console operator. This non-latching condition continues until the closure is released. (Requires user-supplied momentary action TALKBACK switch at the studio microphone location.)



Typical DB-25 connector

On Tally

Lets the module's channel ON switch control an on-air light or other "microphone on" indicator at a remote location. This control function provides a continuous +5 volt signal at Pin 15 (On Tally) whenever the module is ON.

This signal can be used to control an externally powered tally light that requires a continuous signal to function. Or an external tally light (i.e., LED) can be powered from the input module by connecting the external LED to Digital Ground (Pin 19) and the On Tally port. In either case, current should not exceed 30 milliamps.

Tally B

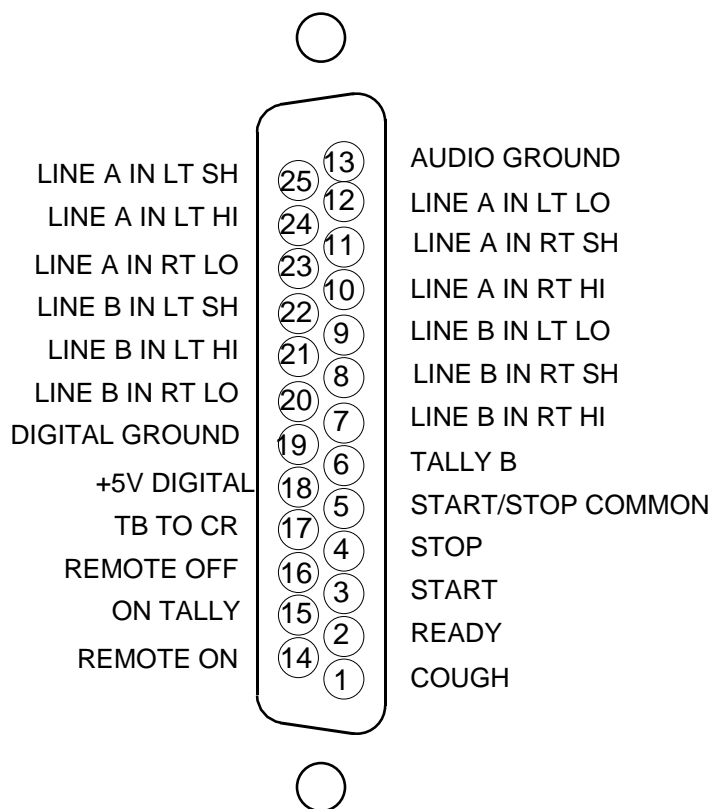
Provides a remote indication that the module's B source has been selected. This control function provides a continuous closure (open collector) between Pin 6 (Tally B) and Digital Ground (Pins 19) whenever the B source is selected.

This closure can be used to control an externally powered tally light that requires a continuous closure to function. An external tally light (i.e., LED) can be powered from the input module by connecting the external LED to +5V Digital (Pin 18) and the B Tally port. Current should not exceed 30 milliamps.

SL-2600 Stereo Line Input

DB Connector Pinouts

I/O PORTS ANALOG AND LOGIC



Output Module

(OM-2600)

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DB-25 Connector - Audio	4-3
DB-9 Connector - Audio	4-3
DB-9 Connector - Control	4-4
DB Connector Pinout Drawing	4-5

Hook-Ups

As stated before, all user wiring to and from the OM-2600 modules takes place at DB-25 and DB-9 multi-pin connectors on the top of module.

DB-25 Connector – Audio

Handles External input and Program, Audition, Mono, and Pre outputs. All signals are +4dBu balanced.

Pin 25 – PGM Lt Out SH
Pin 24 – PGM Lt Out HI
Pin 12 – PGM Lt Out LO

Pin 11 – PGM Rt Out SH
Pin 10 – PGM Rt Out HI
Pin 23 – PGM Rt Out LO

Pin 22 – AUD Lt Out SH
Pin 21 – AUD Lt Out HI
Pin 9 – AUD Lt Out LO

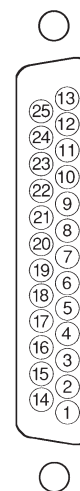
Pin 8 – AUD Rt Out SH
Pin 7 – AUD Rt Out HI
Pin 20 – AUD Rt Out LO

Pin 19 – MONO Out SH
Pin 18 – MONO Out HI
Pin 6 – MONO Out LO

Pin 5 – PRE Out SH
Pin 4 – PRE Out HI
Pin 17 – PRE Out LO

Pin 16 – EXT Lt In SH
Pin 15 – EXT Lt In HI
Pin 3 – EXT Lt In LO

Pin 2 – EXT Rt In SH
Pin 1 – EXT Rt In HI
Pin 14 – EXT Rt In LO

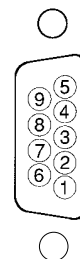


Typical DB-25 connector

DB-9 Connector – Audio

Handles CUE output.

Pin 5 – CUE Out SH
Pin 4 – CUE Out HI
Pin 9 – CUE Out LO



Typical DB-9 connector

DB-9 Connector — Control

Handles Tally 1 and Tally 2 control connections.

Pin 3 – Tally 1 N.O.

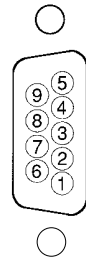
Pin 7 – Tally 1 Com.

Pin 6 – Tally 2 Com

Pin 1 – Tally 2 N.O.

Pins 2 and 8 - Audio Common

These are simple relay closures that activate whenever programmed input modules are turned ON (see pages 2-3 and 3-3). The ports can be used to control externally powered tally lights that requires a continuous closure to function.

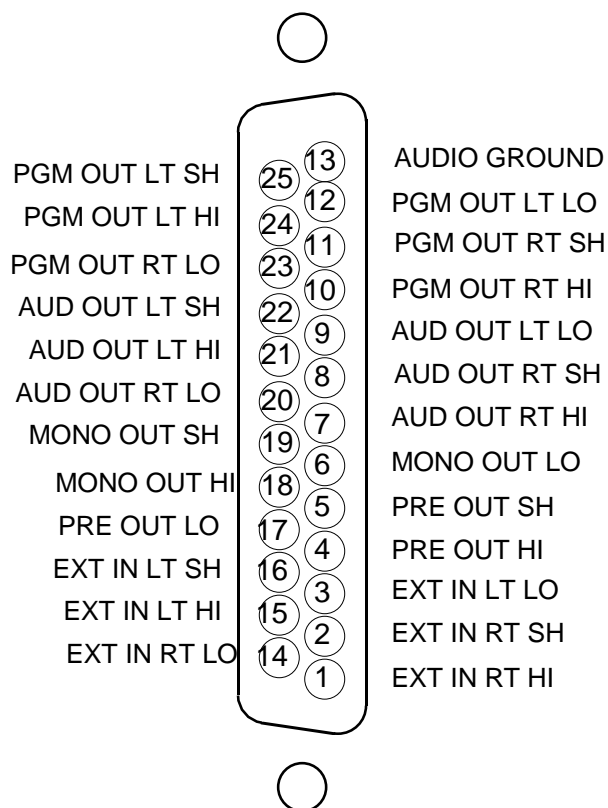


Typical DB-9
connector

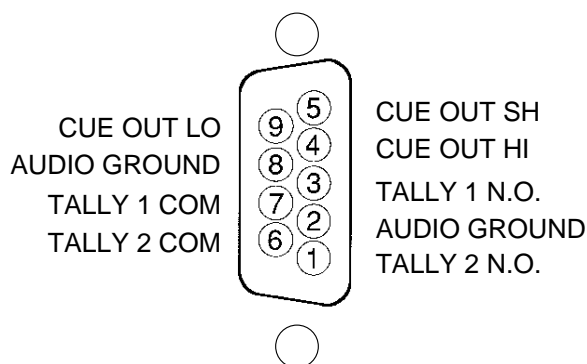
OM-2600 Output Module

DB Connector Pinouts

I/O PORTS ANALOG (DB-25)



ANALOG OUTPUT PORTS



Control Room/Studio Module

(CRS-2600)

Chapter Contents

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Control Room/Studio Module

(CRS-2600)

Module Overview

The CRS-2600 module is the 2600 console operator's monitor module. It allows the operator to listen to the console's two stereo (PGM & AUD) outputs, two mono (MONO & PRE) outputs, and an external stereo line level input brought directly into the module.

A recessed front panel multi-turn trimpot adjusts talkback level.

The CRS-2600 module also houses three console monitor circuits, which follow the source selection switches. They are:

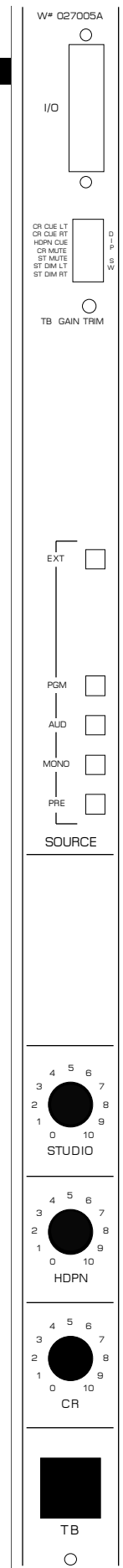
CONTROL ROOM (CR)—a dedicated output designed to drive a separate, user provided power amp/speaker system in the main control room;

STUDIO—a second stereo output intended for a remote (i.e., non CR) studio power amp/speaker system;

HEADPHONE (HDPN)—an additional output (w/built-in power amp) that drives the console operator's headphones. There are two types of headphone output: the -2dBu unbalanced output at the module's DB-25 connector, and the headphone jack mounted in the right-hand corner of the console, which is actually the output from a built-in headphone amplifier.

The CRS-2600 module has a talkback switch. When the talkback switch is pressed (it is momentary action) the console operator's microphone signal will interrupt the regular monitor signals being sent to the studio.

All user wiring to and from the CRS-2600 module takes place at the DB-25 multi-pin connector mounted at the top of the module and located underneath the hinged meterbridge. All audio connections are stereo line level analog signals. A pinout drawing on page 5-5 shows all wiring connections at a glance.



Internal Programming Options

Internal programming for the control room/studio module is made via printed circuit board (PCB) mounted dipswitch SW1 located on the top of the module (beneath of the DB-25 connectors). Note when a dipswitch position is thrown to the right it is ON.

Cue Interrupt

Dipswitch SW1 pos 5-7 determines how the console's Cue function will interrupt regular monitor signals:

- SW1 position 7 sends cue to CR left
- SW1 position 6 sends cue to CR right
- SW1 position 5 sends cue to HDPN*

*factory default settings

CR/Cue Mute

The audio from both the control room speakers and the console's built-in meterbridge speaker can easily be picked up by the console operator's microphone. This is a potential source of feedback. For this reason the console provides muting to the control room output and the built-in cue speaker whenever the mic is live (see pages 2-3 and 3-3).

- SW1 position 4 will mute cue and the CR output whenever an input channel set to activate the CR mute is ON*

*factory default settings

Studio Mute

When SW1 pos 3 is activated, it automatically mutes talkback out and the console's studio output whenever an input module is turned ON with A selected as the input source. This is used to prevent feedback from studio mics.

Studio Dim

Input modules controlling studio microphones can be programmed to MUTE a studio whenever the module is turned on (i.e., it's microphone is live). If you wish, you can have a studio DIM (drop -20dB in level) instead of MUTE:

- SW1 positions 1 causes Studio right to DIM
- SW1 positions 2 causes Studio left to DIM

Note the DIM functions also affect the talkback interrupt. Note also if the studio is muted, talkback cannot be heard. However, if the studio is programmed to DIM instead of MUTE, talkback audio could presumably make it from the studio monitor speakers to the open studio mic.

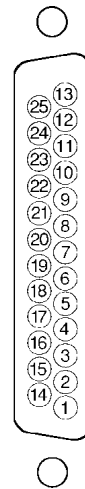
Hook-Ups

As stated before, all user wiring to and from the CRS-2600 module takes place at a DB-25 multi-pin connector mounted at the top of the module.

DB-25 Connector — Audio

Handles module's External Stereo inputs and studio, headphone, and control room outputs. All audio signals are analog stereo.

Pin 25 – Ext Lt In SH
 Pin 24 – Ext Lt In HI
 Pin 12 – Ext Lt In LO
 Pin 11 – Ext Rt In SH
 Pin 10 – Ext Rt In HI
 Pin 23 – Ext Rt In LO
 Pin 22 – St Lt Out SH
 Pin 21 – St Lt Out HI
 Pin 9 – St Lt Out LO
 Pin 8 – St Rt Out SH
 Pin 7 – St Rt Out HI
 Pin 20 – St Rt Out LO
 Pin 19 – HDPN Lt Out SH
 Pin 18 – HDPN Lt Out HI
 Pin 6 – N/C
 Pin 5 – HDPN Rt Out SH
 Pin 4 – HDPN Rt Out HI
 Pin 17 – N/C
 Pin 16 – CR Lt Out SH
 Pin 15 – CR Lt Out HI
 Pin 3 – CR Lt Out LO
 Pin 2 – CR Rt Out SH
 Pin 1 – CR Rt Out HI
 Pin 14 – CR Rt Out LO

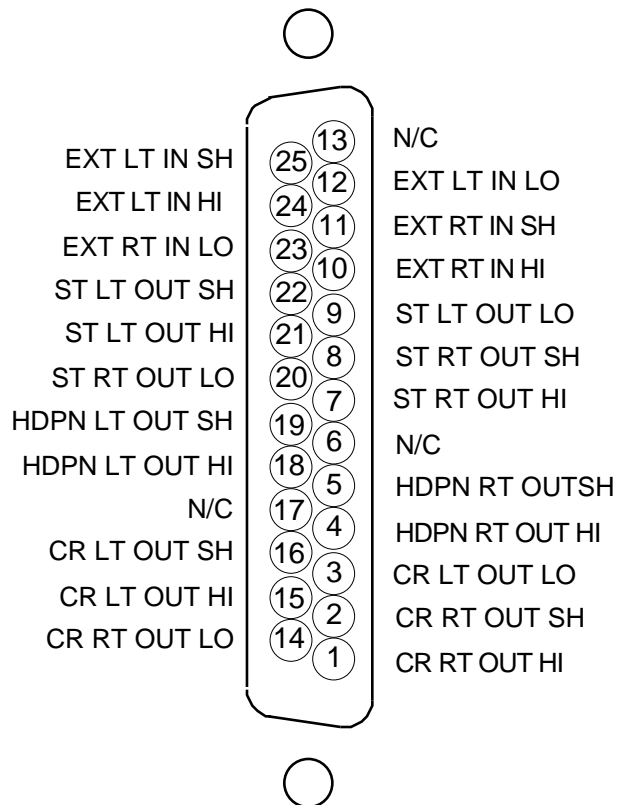


Typical DB-25
connector

CRS-2600 Control Room/Studio Module

DB Connector Pinouts

I/O PORTS (DB-25)



Line Preselector Module- Analog

(LS-2600; optional)

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Line Preselector Module- Analog

(LS-2600; optional)

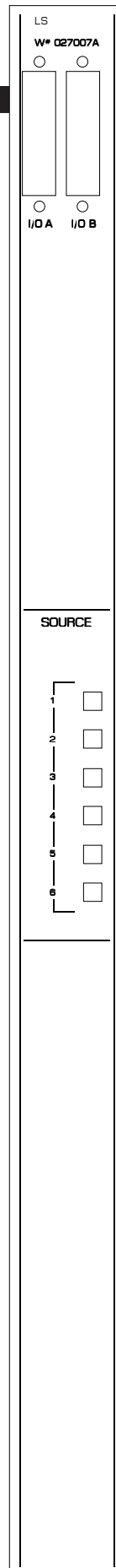
Overview

This optional module electronically selects one of six stereo line sources and routes it to one stereo output, allowing you to expand the source capability of an input channel or monitor module.

All audio input and output signals are made via two DB-25 multi-pin connectors mounted at the top of the module and located underneath the hinged meterbridge.

Internal Programming Options

There are no internal programming options on the LS-2600 module.



Hook-Ups

Left DB-25 “A” Connector - Audio Inputs 5, 6

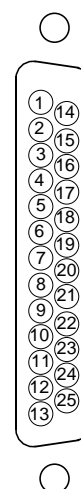
Pin 25 – Line 5 Lt In SH
 Pin 24 – Line 5 Lt In HI
 Pin 12 – Line 5 Lt In LO
 Pin 11 – Line 5 Rt In SH
 Pin 10 – Line 5 Rt In HI
 Pin 23 – Line 5 Rt In LO
 Pin 22 – Line 6 Lt In SH
 Pin 21 – Line 6 Lt In HI
 Pin 9 – Line 6 Lt In LO
 Pin 8 – Line 6 Rt In SH
 Pin 7 – Line 6 Rt In HI
 Pin 20 – Line 6 Rt In LO

Left DB-25 “A” Connector - Audio Outputs

Pin 19 – Line Lt Out SH
 Pin 18 – Line Lt Out HI
 Pin 6 – Line Lt Out LO
 Pin 5 – Line Rt Out SH
 Pin 4 – Line Rt Out HI
 Pin 17 – Line Rt Out LO

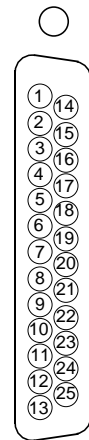
Right DB-25 “B” Connector - Audio Inputs 1-4

Pin 25 – Line 1 Lt In SH
 Pin 24 – Line 1 Lt In HI
 Pin 12 – Line 1 Lt In LO
 Pin 11 – Line 1 Rt In SH
 Pin 10 – Line 1 Rt In HI
 Pin 23 – Line 1 Rt In LO
 Pin 22 – Line 2 Lt In SH
 Pin 21 – Line 2 Lt In HI
 Pin 9 – Line 2 Lt In LO
 Pin 8 – Line 2 Rt In SH
 Pin 7 – Line 2 Rt In HI
 Pin 20 – Line 2 Rt In LO
 Pin 19 – Line 3 Lt In SH
 Pin 18 – Line 3 Lt In HI
 Pin 6 – Line 3 Lt In LO
 Pin 5 – Line 3 Rt In SH
 Pin 4 – Line 3 Rt In HI
 Pin 17 – Line 3 Rt In LO



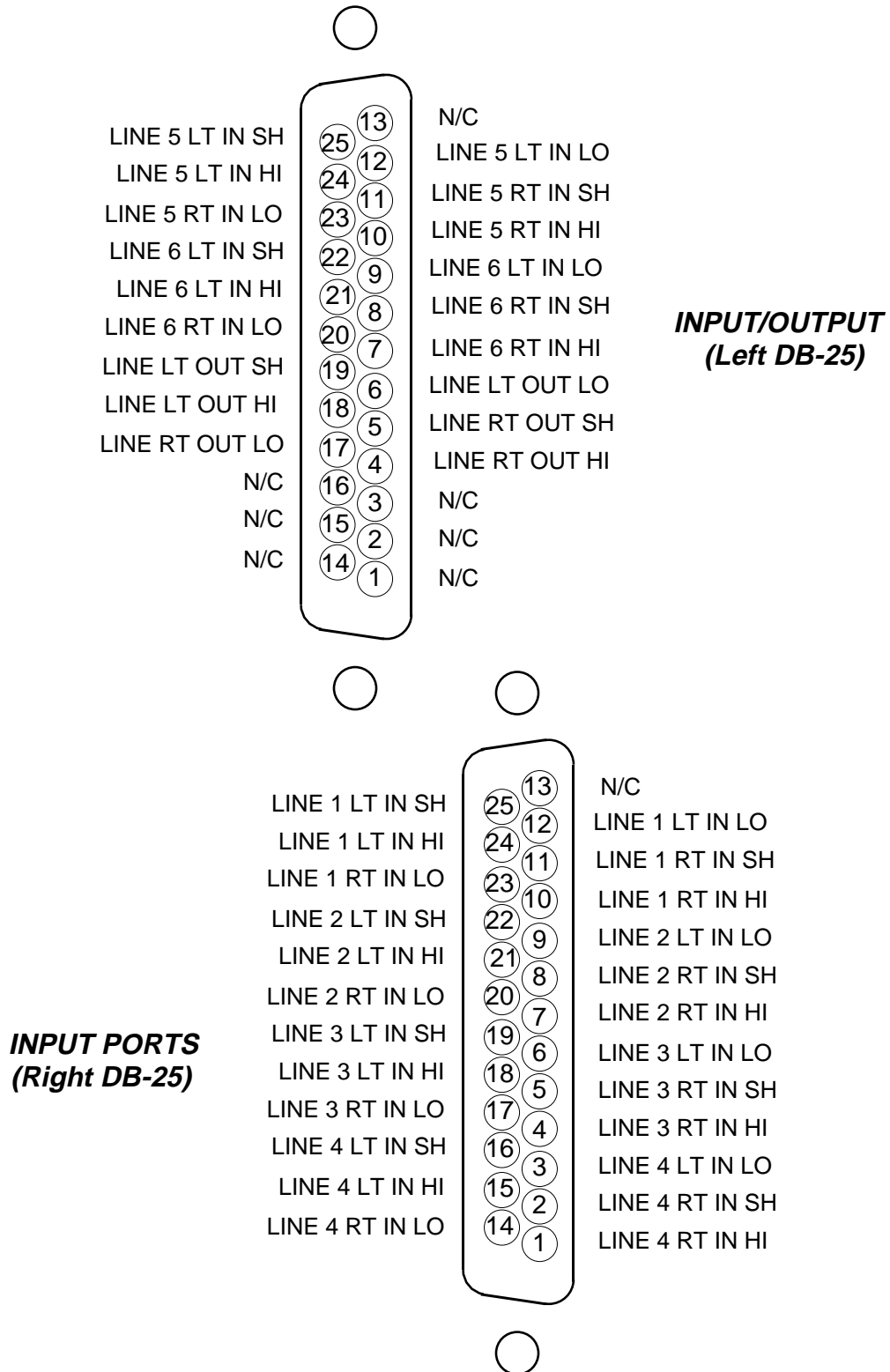
Typical DB-25 connector

Pin 16 – Line 4 Lt In SH
 Pin 15 – Line 4 Lt In HI
 Pin 3 – Line 4 Lt In LO
 Pin 2 – Line 4 Rt In SH
 Pin 1 – Line 4 Rt In HI
 Pin 14 – Line 4 Rt In LO



Typical DB-25
connector

LS-2600 Line Selector Module *DB Connector Pinouts*



Tape Remote Module

(TR-2600; optional)

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Module Overview 7-2

DB Connector Pinout Drawings

START/STOP Function Control I/O 7-3

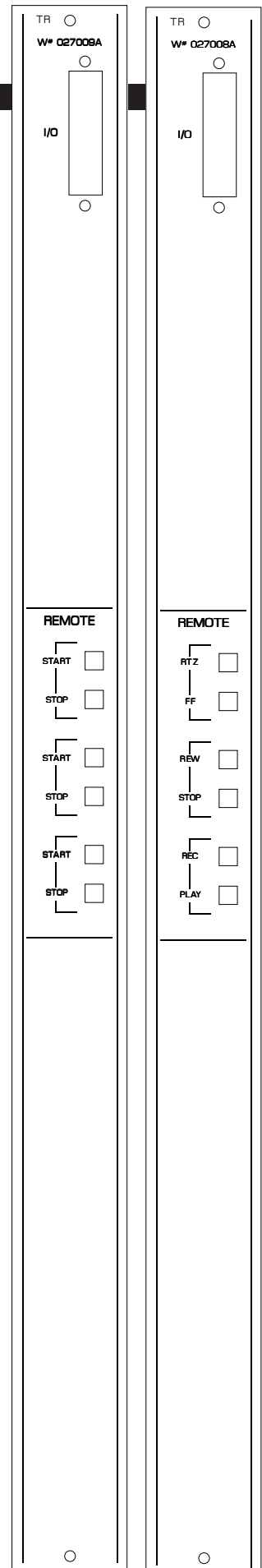
Full-Function Control I/O 7-4

Tape Remote Module

(TR-2600; optional)

Module Overview

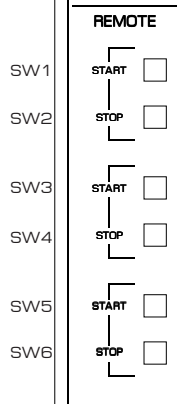
This optional module is available in two versions. The START/STOP version offers three sets of START and STOP buttons to provide start-stop control of three remote reel-to-reel machines. The full function version provides RTZ, FF, REW, STOP, REC, and PLAY buttons for a single machine. LED indicators in each switch function as tallyback indicators and are powered by the source machine. There are no internal connections between the tape remote panel and the console's power rails.



TR ○
W# Q27009A
I/O ○

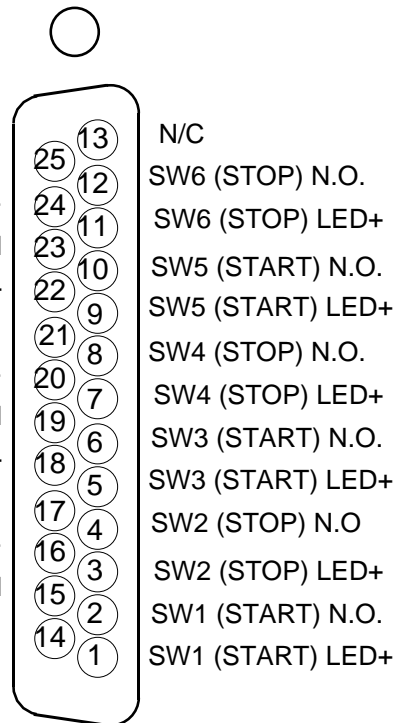
TAPE REMOTE MODULE

TR-2600/SS Tape Remote Module DB Connector Pinouts



I/O CONTROL PORTS (DB-25)

SW6 (STOP) COMMON
SW6 (STOP) LED-
SW5 (START) COMMON
SW5 (START) LED-
SW4 (STOP) COMMON
SW4 (STOP) LED-
SW3 (START) COMMON
SW3 (START) LED-
SW2 (STOP) COMMON
SW2 (STOP) LED-
SW1 (START) COMMON
SW1 (START) LED-



TR ○
W# 027008A

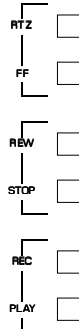
I/O

TAPE REMOTE MODULE

TR-2600/FF Tape Remote Module DB Connector Pinouts

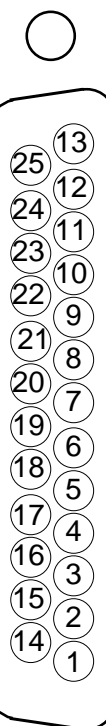
SW1
SW2
SW3
SW4
SW5
SW6

REMOTE



I/O CONTROL PORTS (DB-25)

SW6 (PLAY) COMMON
SW6 (PLAY) LED-
SW5 (REC) COMMON
SW5 (REC) LED-
SW4 (STOP) COMMON
SW4 (STOP) LED-
SW3 (REW) COMMON
SW3 (REW) LED-
SW2 (FF) COMMON
SW2 (FF) LED-
SW1 (RTZ) COMMON
SW1 (RTZ) LED-



N/C
SW6 (PLAY) N.O.
SW6 (PLAY) LED+
SW5 (REC) N.O.
SW5 (REC) LED+
SW4 (STOP) N.O.
SW4 (STOP) LED+
SW3 (REW) N.O.
SW3 (REW) LED+
SW2 (FF) N.O.
SW2 (FF) LED+
SW1 (RTZ) N.O.
SW1 (RTZ) LED+

Meterbridge

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Meterbridge

Overview

The console's meterbridge houses two pairs of left-right VU meters (Program and Switched; see "Output Module" Chapter 4), the digital timer, and the cue speaker.

The meterbridge assembly hinges open for easy access (VU meter lamp replacement). Simply swing the bridge up and back until it rests in a fully opened position.

Digital Timer

The timer is provided with an AUTO-RESTART function so programmed input modules can automatically reset the timer display to zero and start a new count, allowing the announcer to easily track his own pace.

The START/STOP button halts the timer, holds the last count, and then restarts and accumulates the count when depressed again—perfect for compiling tapes of desired duration.

RESET has a dual-mode capability:

- if you depress it while the timer is counting, the display will instantly reset to zero and start a fresh count;
- if the timer is already stopped, depressing this button will reset the timer to zero, where it will hold until start is pressed.

HOLD button allows you to hold the display for a longer viewing duration, while still allowing the counter to continue in the background. Releasing the button will then display the current count.

Parts List

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2600-18 Connector Kit	9-23
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2600 Spare Parts Kit	9-25

MM-2600 MONO MIC INPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027021A
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
	6 PIN .098" PLUG FOR #26 AWG	2	230031
	9 PIN .098" PLUG FOR #26 AWG	1	230032
U1	8 PIN .3" DIP SMT SOCKET	1	245001
CT5, CT6	6 PIN .098" HEADER	2	250065
CT3	9 PIN .098" HEADER	1	250066
U3	74ACT00 TTL SMT Quad 2-Input NAND	1	305004
U1	2017 MIC PREAMP IC	1	320003
U2	OP-275 DUAL LINEAR OP-AMP SMT	1	325002
Q1, Q2	MMBTA55 PNP SMT TRANSISTOR	2	345002
Z7	6.2V 1W ZENER DIODE	1	350013
D6, D7	1N4002W RECTIFYING 1AMP SMT DIODE	2	355001
Z1-Z6	5.1V SMT ZENER DIODE C5V1	6	355002
D1-D5, D8	1N4148 FAST SWITCHING SMT DIODE	6	355003
U5-U7	4053 SMT	3	385000
C1	CAPACITOR, 2200μF 25V ELECTROLYTIC	1	400015
C3, C5, C12	CAPACITOR, 10μF 50V ELECTROLYTIC SMT	3	405001
C6, C18, C22, C27, C33	CAPACITOR, 22μF 25V ELECTROLYTIC SMT	5	405002
C7, C19, C28, C29	CAPACITOR, 100μF 25V ELECTROLYTIC SMT	4	405003
L1, L2	FERRITE BEAD SMT 1206 PACKAGE	2	405010
C9, C15	CAPACITOR, 10pF 100V CERAMIC SMT	2	415001
C13	CAPACITOR, 330pF 100V CERAMIC SMT	1	415004
C2, C11	CAPACITOR, .001μF 50V CERAMIC SMT	2	415005
C35	CAPACITOR, .01μF 50V CERAMIC SMT	1	415006
C4, C8, C10, C14, C16, C20, C21, C23, C24, C26, C31, C32, C34, C37	CAPACITOR, .1μF 50V CERAMIC SMT	14	415007
C36	CAPACITOR, .22μF 50V CERAMIC SMT	1	415009
R36, R50, R54-R56	3.3 OHM 5% .25W MC1206 RESISTOR	5	435001
R15, R17-R19, R28, R33, R59	10 OHM 5% .25W MC1206 RESISTOR	7	435002
R8, R52, R61, R62	100 OHM 5% .25W MC1206 RESISTOR	4	435007
R11, R60	1.00 KOHM 1% .25W MC1206 RESISTOR	2	435015
R32, R48	1.30 KOHM 1% .25W MC1206 RESISTOR	2	435016
R13, R14, R46, R47, R57, R58	2.43 KOHM 1% .25W MC1206 RESISTOR	6	435020
R5, R6	3.92 KOHM 1% .25W MC1206 RESISTOR	2	435022
R1, R16, R31, R37-R39, R40-R44	4.99 KOHM 1% .25W MC1206 RESISTOR	11	435023
R2, R3, R4, R9, R12, R20, R22, R24, R26, R29, R45, R63	10.0 KOHM 1% .25W MC1206 RESISTOR	12	435028

MM-2600 MONO MIC INPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
R35	22.1 KOHM 1% .25W MC1206 RESISTOR	1	435036
R34	88.7 KOHM 1% .25W MC1206 RESISTOR	1	435043
CR1, CR2	1K 15 TURN TRIM POT	2	500123
ON/OFF SWITCH	PUSHBUTTON SWITCH, 2 POLE MOMENTARY (LUGS)	2	510080
SW4	4 POLE PUSHBUTTON SWITCH, ALTERNATE ACTION	1	510085
SW2, SW3, SW5, SW6	2 POLE PUSHBUTTON SWITCH, ALTERNATE ACTION	4	510097
SW1	7 POSITION RIGHT ANGLE DIP SWITCH	1	510282
FADER KNOB	BLUE FADER KNOB WITH WHITE LINE	1	520052
OFF SWITCH BUTTON	A50 STYLE AMBER BUTTON, PRINTED "OFF"	1	530048
ON SWITCH BUTTON	A50 STYLE RED BUTTON, PRINTED "ON"	1	530049
PGM/AUD/MOMO/PRE SWITCH BUTTON	SOLID WHITE LUMA-230 BUTTON	4	530272
A/B	SOLID GREY LUMA-230 BUTTON	1	530273
FADER	10K SINGLE AUDIO TAPER SELMARK CARBON FADER 100mm	1	540027
ON SWITCH LAMP	5V LED REPLACEMENT FOR T 1 3/4 LAMP RED SLEEVE REQUIRED	1	600025
OFF SWITCH LAMP	T 1 3/4 MIDGET FLANGED BASE SINGLE CHIP YELLOW LED LAMP REPLACEMENT	1	600029
PCB_MM2000	PRINTED CIRCUIT BOARD	1	700654
	PEM FASTENERS	3	821009
F1-F3	FUSE/ POLY SWITCH .3AMP SMT RESETABLE	3	835001

SL-2600 STEREO LINE INPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027020A
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
	6 PIN .098" PLUG FOR #26 AWG	2	230031
	9 PIN .098" PLUG FOR #26 AWG	1	230032
CT5, CT6	6 PIN .098" HEADER	2	250065
CT3	9 PIN .098" HEADER	1	250066
U5	74ACT00 TTL SMT Quad 2-Input NAND	1	305004
U1-U4	NE5532 DUAL LINEAR OP-AMP SMT	4	325001
Q1, Q2	MMBTA55 PNP SMT TRANSISTOR	2	345002
Z3	6.2V 1W ZENER DIODE	1	350013
D6, D7	1N4002W RECTIFYING 1AMP SMT DIODE	2	355001
Z1, Z2	5.1V SMT ZENER DIODE C5V1	2	355002
D1-D5, D8	1N4148 FAST SWITCHING SMT DIODE	6	355003
U6-U10	4053 SMT	5	385000
C1, C12, C24-C28, C33, C37, C39, C42	CAPACITOR, 22 μ F 25V ELECTROLYTIC SMT	11	405002
C2, C3, C11, C32, C40, C41	CAPACITOR, 100 μ F 25V ELECTROLYTIC SMT	6	405003
C5-C7, C9, C10, C14-C16, C18, C19, C21, C29	CAPACITOR, 10pF 100V CERAMIC SMT	12	415001
C44	CAPACITOR, .01 μ F 50V CERAMIC SMT	1	415006
C4, C8, C13, C17, C20, C23, C30, C34-C36, C38, C43, C46, C47	CAPACITOR, .1 μ F 50V CERAMIC SMT	14	415007
C45	CAPACITOR, .22 μ F 50V CERAMIC SMT	1	415009
R34, R36, R37, R46, R78	10 OHM 5% .25W MC1206 RESISTOR	5	435002
R27, R80, R81	100 OHM 5% .25W MC1206 RESISTOR	3	435007
R26, R50	220 OHM 5% .25W MC1206 RESISTOR	2	435009
R48	619 OHM 1% .25W MC1206 RESISTOR	1	435013
R30, R79	1.00 KOHM 1% .25W MC1206 RESISTOR	2	435015
R32, R33, R70, R71, R76, R77	2.43 KOHM 1% .25W MC1206 RESISTOR	6	435020
R56, R73, R75, R84	3.32 KOHM 1% .25W MC1206 RESISTOR	4	435021
R1, R3, R4, R7, R8, R14, R16, R17, R20, R21, R57-R60	4.99 KOHM 1% .25W MC1206 RESISTOR	14	435023
R2, R5, R6, R9, R15, R18, R19, R22, R28, R31, R38, R40, R42, R44, R47, R53, R61-R69, R72	10.0 KOHM 1% .25W MC1206 RESISTOR	26	435028
R74, R82, R83	10.0 KOHM 1% .25W MC1206 RESISTOR	3	435028
R23, R35, R52	22.1 KOHM 1% .25W MC1206 RESISTOR	3	435036
R54, R55	40.2 KOHM 1% .25W MC1206 RESISTOR	2	435039
R24, R49	88.7 KOHM 1% .25W MC1206 RESISTOR	2	435043
CR1, CR2	50K 15 TURN TRIM POT	2	500015
SW2-SW7	2 POLE PUSHBUTTON SWITCH, ALTERNATE ACTION	6	510097
START/STOP SWITCH	PUSHBUTTON SWITCH, 2 POLE MOMENTARY (LUGS)	2	510080

SL-2600 STEREO LINE INPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
SW1	7 POSITION RIGHT ANGLE DIP SWITCH	1	510282
FADER KNOB	WHITE FADER KNOB WITH BLACK LINE	1	520051
START SWITCH CAP	A50 STYLE AMBER BUTTON, PRINTED "OFF"	1	530048
STOP SWITCH CAP	A50 STYLE RED BUTTON, PRINTED "ON"	1	530049
CUE SWITCH BUTTON	CUSTOM WHITE LIGHT PIPE BUTTON	1	530083
PGM/AUD/MONO/PRE SWITCH BUTTON	SOLID WHITE LUMA-230 BUTTON	4	530272
A/B	SOLID GREY LUMA-230 BUTTON	1	530273
FADER	10K DUAL AUDIO TAPER SELMARK CARBON FADER 100mm	1	540028
START SWITCH LAMP	5V LED REPLACEMENT FOR T 1 3/4 LAMP RED SLEEVE REQUIRED	1	600025
STOP SWITCH LAMP	T 1 3/4 MIDGET FLANGED BASE SINGLE CHIP YELLOW LED LAMP REPLACEMENT	1	600029
DS6	HIGH INTENSITY RED SMT LED RIGHT ANGLE ULTRBRIGHT	1	605017
PCB_SL2000	PRINTED CIRCUIT BOARD SMT	1	700656
	PEM FASTENERS	4	821009
F1-F3	FUSE/ POLY SWITCH .3AMP SMT RESETABLE	3	835001

OM-2600 OUTPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027022A
CT2	THREADED 9 PIN DB CONNECTOR-IDD9	1	200031
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
	10 PIN RIBBON PLUG	1	230020
	3 PIN .098" PLUG FOR #26 AWG	1	230028
CT4	3 PIN .098" HEADER	1	250062
CT2	10 PIN PC MOUNT STRAIGHT UP SMT HEADER	1	255005
U7	74ACT00 TTL SMT Quad 2-Input NAND	1	305004
U6, U21	74ACT74 TTL SMT Dual D-Type Pos-Edge-Triggered Flip-Flop	2	305021
U1-U5, U8-U16	OP-275 DUAL LINEAR OP-AMP SMT	14	325002
Q1, Q2	MMBTA55 PNP SMT TRANSISTOR	2	345002
Z3	6.2V 1W ZENER DIODE	1	350013
D3-D6	1N4002W RECTIFYING 1AMP SMT DIODE	4	355001
Z1, Z2	5.1V SMT ZENER DIODE C5V1	2	355002
D2	1N4148 FAST SWITCHING SMT DIODE	1	355003
D1	SS14 SCHOTTKY SMT DIODE	1	355004
U17-U20	74VHC4053 SMT Triple 2-Channel Analog Mux	4	385001
C22, C25-C27, C60-C62	CAPACITOR, 22µF 25V ELECTROLYTIC SMT	7	405002
C20, C63, C64	CAPACITOR, 100µF 25V ELECTROLYTIC SMT	3	405003
C5, C6, C12, C13	CAPACITOR, 10pF 100V CERAMIC SMT	4	415001
C1-C3, C7, C14-C16, C18, C29, C30, C32, C33, C35, C36, C38-C40, C42, C43, C48, C50-C53	CAPACITOR, 33pF 100V CERAMIC SMT	24	415002
C56, C58	CAPACITOR, 33pF 100V CERAMIC SMT	2	415002
C4, C8, C9-C11, C17, C19, C21, C23, C24, C28, C31, C34, C37, C41, C44-C47, C49, C54, C55	CAPACITOR, .1µF 50V CERAMIC SMT	22	415007
C57, C59	CAPACITOR, .1µF 50V CERAMIC SMT	2	415007
R1, R2, R4, R5, R7, R8, R36, R37, R71, R73, R75, R76, R79, R83, R95, R99, R103, R107, R109	10 OHM 5% .25W MC1206 RESISTOR	19	435002
R111, R113, R114	10 OHM 5% .25W MC1206 RESISTOR	3	435002
R14-R25, R126, R127	100 OHM 5% .25W MC1206 RESISTOR	14	435007
R46	332 OHM 1% .25W MC1206 RESISTOR	1	435010
R41, R44, R48	619 OHM 1% .25W MC1206 RESISTOR	3	435013
R53	475 OHM 1% .25W MC1206 RESISTOR	1	435011
R3, R6, R9, R29-R31	1.30 KOHM 1% .25W MC1206 RESISTOR	6	435016
R88, R91, R93, R118, R120, R121	2.43 KOHM 1% .25W MC1206 RESISTOR	6	435020
R122-R125	3.32 KOHM 1% .25W MC1206 RESISTOR	4	435021
R90, R92, R116, R119	3.92 KOHM 1% .25W MC1206 RESISTOR	4	435022
R11, R12, R26-R28, R33, R34, R38, R52, R54-R64, R70, R72, R74, R77, R80-R82, R84-R87	4.99 KOHM 1% .25W MC1206 RESISTOR	31	435023
R89, R94, R96-R98, R100-R102, R104-R106, R110, R112, R115, R117	4.99 KOHM 1% .25W MC1206 RESISTOR	15	435023

OM-2600 OUTPUT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
R10, R13, R32, R35, R78	10.0 KOHM 1% .25W MC1206 RESISTOR	5	435028
R39, R40, R42, R43, R45, R47, R49, R50, R108	40.2 KOHM 1% .25W MC1206 RESISTOR	9	435039
R51	88.7 KOHM 1% .25W MC1206 RESISTOR	1	435043
CR1-CR6	10K TRIM POT	6	500021
CUE POT	10K SINGLE AUDIO CONDUCTIVE PLASTIC, BOURNS	1	500058
CR7-CR10	10K TRIM POT SMT	4	505002
SW1-SW4	2 POLE PUSHBUTTON SWITCH, MOMENTARY	4	510113
CUE KNOB	1/8" COLLET KNOB, NO POINTER, NO LINE	1	520053
CUE CAP	PASTEL GREEN CAP W.BLACK LINE FOR 15MM KNOB	1	530079
EXT/ PGM/AUD/MONO SWITCH BUTTON	CUSTOM WHITE LIGHT PIPE BUTTON	4	530272
K1, K2	DPDT RELAY,5V	2	550006
DS1	HIGH INTENSITY AMBER SMT LED RIGHT ANGLE	1	605010
DS4	ULTRABRIGHT RIGHT ANGLE RED SMT	2	605017
DS3	ULTRABRIGHT RIGHT ANGLE GREEN SMT	1	605018
DS5	ULTRABRIGHT RIGHT ANGLE YELLOW SMT	1	605019
PCB_BPSA1000	PRINTED CIRCUIT BOARD	1	700299
PCB_OM2000	PRINTED CIRCUIT BOARD	1	700655
	D SUB STANDOFF JACK HARDWARE 3/16" LONG	2	820047
	PEM FASTENERS	4	821009
F1-F3	FUSE/ POLY SWITCH .3AMP SMT RESETABLE	3	835001

CRS-2600 CONTROL ROOM/STUDIO MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027025A
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
	3 PIN .098" PLUG FOR #26 AWG	1	230028
	6 PIN .098" PLUG FOR #26 AWG	3	230031
CT3	3 PIN .098" HEADER	1	250062
CT5-CT7	6 PIN .098" HEADER	3	250065
U8, U25, U26	74ACT74 TTL SMT Dual D-Type Pos-Edge-Triggered Flip-Flop	3	305021
U20-U22	LM675 POWER OP AMP	3	320007
U1, U4-U7, U12, U23, U24	OP-275 DUAL LINEAR OP-AMP SMT	8	325002
Q1	MMBTA55 PNP SMT TRANSISTOR	1	345002
Z3	6.2V 1W ZENER DIODE	1	350013
D1, D2	1N4002W RECTIFYING 1AMP SMT DIODE	2	355001
Z1, Z2	5.1V SMT ZENER DIODE C5V1	2	355002
D4	1N4148 FAST SWITCHING SMT DIODE	1	355003
D3	SS14 SCHOTTKY SMT DIODE	1	355004
U13-U19	4053 SMT	7	385000
C1-C3, C19, C20, C22-C28, C32, C33, C47, C48, C50, C65-C68, C97-C99, C102, C105,	CAPACITOR, 22μF 25V ELECTROLYTIC SMT	26	405002
C109-C112	CAPACITOR, 22μF 25V ELECTROLYTIC SMT	4	405002
C29, C30, C95, C96, C101	CAPACITOR, 100μF 25V ELECTROLYTIC SMT	5	405003
C49, C53	CAPACITOR, 330μF 25V ELECTROLYTIC SMT	2	405004
C69, C71, C73, C83, C86, C89	CAPACITOR, 1μF 35V ELECTROLYTIC SMT TANTALUM	6	405005
C4, C11, C13, C14, C16, C34, C36, C41, C43-C45, C51, C63, C82, C93, C94, C106, C108	CAPACITOR, 10pF 100V CERAMIC SMT	18	415001
C70, C72, C74	CAPACITOR, 33pF 100V CERAMIC SMT	3	415002
C85, C88, C91	CAPACITOR, 330pF 100V CERAMIC SMT	3	415004
C5, C8, C10, C12, C15, C17, C18, C35, C37, C38, C40, C42, C46, C52, C54, C55, C57, C60	CAPACITOR, .1μF 50V CERAMIC SMT	18	415007
C62, C64, C76, C79, C81, C92, C100, C103, C104, C107	CAPACITOR, .1μF 50V CERAMIC SMT	10	415007
C84, C87, C90	CAPACITOR, .22μF 50V CERAMIC SMT	3	415009
R147-R152	3.3 OHM 5% .25W MC1206 RESISTOR	6	435001
R6, R14, R20, R27, R42, R44, R54, R56, R58, R60, R68, R70, R118, R119, R156, R157, R160,	10 OHM 5% .25W MC1206 RESISTOR	17	435002
R161	10 OHM 5% .25W MC1206 RESISTOR	1	435002
F1, F5, F6	47 OHM 5% .25W MC1206 RESISTOR	3	435005
R3, R4, R7, R12, R16-R18, R21, R46, R62	100 OHM 5% .25W MC1206 RESISTOR	10	435007
R37	150 OHM 5% .25W MC1206 RESISTOR	1	435008
R28, R36, R38, R39	220 OHM 5% .25W MC1206 RESISTOR	4	435009
R123, R126, R128	1.00 KOHM 1% .25W MC1206 RESISTOR	3	435015
R32, R87, R98, R174, R194	1.69 KOHM 1% .25W MC1206 RESISTOR	5	435017

CRS-2600 CONTROL ROOM/STUDIO MODULE PARTS LIST			
ITEM#	DESCRIPTION	QTY	W#
R40, R72	2.00 KOHM 1% .25W MC1206 RESISTOR	2	435018
R74, R120	2.43 KOHM 1% .25W MC1206 RESISTOR	2	435020
R90, R92, R94, R162, R164, R166, R168, R170	3.32 KOHM 1% .25W MC1206 RESISTOR	8	435021
R23, R24, R31, R33, R65, R66, R88, R89, R99, R102, R175	4.99 KOHM 1% .25W MC1206 RESISTOR	11	435023
R96, R100	6.19 KOHM 1% .25W MC1206 RESISTOR	2	435025
R5, R19, R22, R25, R26, R43, R45, R47, R59, R61, R63, R64, R67, R69, R75-R86, R91, R93	10.0 KOHM 1% .25W MC1206 RESISTOR	28	435028
R95, R122, R125, R144, R145, R153, R154, R163, R165, R167, R169, R171, R185, R186	10.0 KOHM 1% .25W MC1206 RESISTOR	14	435028
R191, R192	10.0 KOHM 1% .25W MC1206 RESISTOR	2	435028
R158, R173, R187	15.0 KOHM 1% .25W MC1206 RESISTOR	3	435032
R97, R101, R188, R189	20.0 KOHM 1% .25W MC1206 RESISTOR	4	435034
R1, R2, R29, R34, R35, R41, R71, R73, R117, R121, R124, R127, R129, R146, R155, R159	40.2 KOHM 1% .25W MC1206 RESISTOR	16	435039
R172, R177-R184, R190, R193	40.2 KOHM 1% .25W MC1206 RESISTOR	11	435039
R176	88.7 KOHM 1% .25W MC1206 RESISTOR	1	435043
CR1	10K TRIM POT	1	500021
STUDIO/HDPN/CR POT	10K POT, DUAL AUDIO	3	500029
TB SWITCH	PUSHBUTTON SWITCH, 2 POLE MOMENTARY (LUGS)	1	510080
SW2-SW7	2 POLE PUSHBUTTON SWITCH, MOMENTARY	5	510113
SW1	7 POSITION RIGHT ANGLE DIP SWITCH	1	510282
STUDIO/HDPN/CR KNOB	15mm GREY COLLET KNOB FOR 1/4" SHAFT	3	520038
STUDIO/CR POT CAP	11mm BLUE CAP W/WHITE LINE FOR 15mm KNOB	2	530045
TB SWITCH BUTTON	A50 STYLE AMBER BUTTON, PRINTED "OFF"	1	530048
HDPN POT CAP	CREAM CAP W. BLACK LINE FOR 15MM KNOB	1	530080
EXT/PGM/AUD/MONO/PRE SWITCH BUTTON	CUSTOM WHITE LIGHT PIPE BUTTON	5	530083
DS1	HIGH INTENSITY AMBER SMT LED RIGHT ANGLE	1	605010
DS3	ULTRABRIGHT RIGHT ANGLE RED SMT LED	1	605017
DS4	ULTRABRIGHT RIGHT ANGLE GREEN SMT LED	1	605018
DS5, DS6	ULTRABRIGHT RIGHT ANGLE YELLOW SMT LED	2	605019
PCB_CR2000A	PRINTED CIRCUIT BOARD SMT	1	700649
	PEM FASTENERS	4	821009
U20-U22	HEATSINK FOR T-220 WITH MOUNTING PIN	3	825010
F2-F4	FUSE/ POLYSWITCH .3AMP SMT RESETABLE	3	835001

LS-2600 LINE SELECT MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027027A
CT2	25 PIN DB CONNECTOR	1	200018
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	2	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	50	200101
	25 POSITION PLASTIC HOOD, 4-40 JACK SCREWS AND STRAIGHT CABLE EXIT	2	200108
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
	26 PIN PLUG	1	250043
CT2	26 PIN PC MOUNT STRAIGHT UP SMT HEADER	1	255003
R1-R12	10.0 KOHM 1% .25W MC1206 RESISTOR	12	435028
SW1-SW6	6 STATION 4 POLE INTERLOCKED SWITCH, 12.5MM SPACING	1	510040
1-6 SWITCH BUTTON	SOLID GREY LUMA-230 BUTTON	6	530273
PCB_LS2600	PRINTED CIRCUIT BOARD	1	700679
	PEM FASTENERS	3	821009

TR/FF-2600 TAPE REMOTE MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027028A
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	1	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	25	200101
	METALIZED PLASTIC STRAIGHT HOOD FOR DB25 PLUG, W/S 200100	1	200102
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
R1-R6	1.00 KOHM 1% .25W MC1206 RESISTOR	6	435015
SW1-SW6	2 POLE PUSHBUTTON SWITCH, MOMENTARY	6	510113
RTZ/FF/REW/STOP/REC/PLAY BUTTON	CUSTOM WHITE LIGHT PIPE BUTTON	6	530272
DS1, DS3, DS5	ULTRABRIGHT RIGHT ANGLE RED SMT LED	3	605017
DS2, DS4, DS6	ULTRABRIGHT RIGHT ANGLE GREEN SMT LED	3	605018
PCB_TR2000	PRINTED CIRCUIT BOARD SMT	1	700658
	PEM FASTENERS	4	821009

TR/SS-2600 TAPE REMOTE MODULE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	FACEPLATE	1	027029A
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	1	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	25	200101
	METALIZED PLASTIC STRAIGHT HOOD FOR DB25 PLUG, W/S 200100	1	200102
CT1	RIGHT ANGLE 25 PIN PC MOUNT CONNECTOR .318	1	220120
R1-R6	1.00 KOHM 1% .25W MC1206 RESISTOR	6	435015
SW1-SW6	2 POLE PUSHBUTTON SWITCH, MOMENTARY	6	510113
START /STOP BUTTON	CUSTOM WHITE LIGHT PIPE BUTTON	6	530272
DS1, DS3, DS5	ULTRABRIGHT RIGHT ANGLE RED SMT LED	3	605017
DS2, DS4, DS6	ULTRABRIGHT RIGHT ANGLE GREEN SMT LED	3	605018
PCB_TR2000	PRINTED CIRCUIT BOARD SMT	1	700658
	PEM FASTENERS	4	821009

MBE-2600 MOTHER BOARD (EXTENDER) PARTS LIST			
ITEM#	DESCRIPTION	QTY	W#
CT2-CT12	62 PIN PC MOUNT CARDEDGE CONNECTOR	11	<i>220027</i>
CT13	60 PIN BOARD-TO-BOARD MALE CONNECTOR	1	<i>220074</i>
PCB_MBE2011	PRINTED CIRCUIT BOARD	1	<i>700652</i>

MBR-2600 MOTHER BOARD (RIGHT) PARTS LIST			
ITEM#	DESCRIPTION	QTY	W#
CT2-CT5	62 PIN PC MOUNT CARDEDGE CONNECTOR	4	<i>220027</i>
CT1	60 PIN BOARD-TO-BOARD FEMALE CONNECTOR	1	<i>220075</i>
	MULTIMATE SOCKET CONTACT (LOOSE PACK)	7	<i>230067</i>
	PLASTIC SHELL CABLE CONNECTOR	1	<i>230069</i>
CT6, CT7, CT9, CT10	3 PIN .098" HEADER	4	<i>250062</i>
CT11	16PIN BOXED HEADER, STRAIGHT	1	<i>250075</i>
CT8	10PIN BOXED HEADER, STRAIGHT	1	<i>250077</i>
PCB_MBR2000	PRINTED CIRCUIT BOARD	1	<i>700653</i>

TIMER PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
U1, U4	8 PIN .3" DIP SMT SOCKET	2	245001
U6	14 PIN .3" DIP SMT SOCKET	1	245002
U1	20 PIN .3" DIP SMT SOCKET	1	245004
CT4, CT5	20 PIN DIL SOCKET	2	250057
CT1	10PIN BOXED HEADER, STRAIGHT	1	250077
U4	74AC14 TTL SMT TAPE & REEL ONLY Hex Schmitt Trigger	1	305027
U2	74LS74 TTL SMT Dual D-Type Pos-Edge-Triggered Flip-Flop	1	305029
U3	DS90C031 LVD DIFF LINE DRIVER SMT	1	305051
U6	LTC491 RS485/ RS422 INTERFACE	1	310041
U1	IC PIC16LC66-04/SP MICRO	1	310064A
U5	IC ADM690 POWER SUPERVISORY	1	310065A
Q1	MMBTA05 NPN SMT TRANSISTOR	1	345001
D7, D9, D10	1N4002W RECTIFYING 1AMP SMT DIODE	3	355001
D2-D6	1N4148 FAST SWITCHING SMT DIODE	5	355003
D1	SS14 SCHOTTKY SMT DIODE	1	355004
Y1	CRYSTAL 4.096 MHZ	1	370022A
E1	CAP 2.2F SUPERCAP 5.5V	1	400069A
C5, C9, C10, C16	CAPACITOR, 22 μ F 25V ELECTROLYTIC SMT	4	405002
C13, C14	CAPACITOR, 330 μ F 25V ELECTROLYTIC SMT	2	405004
C11, C17, C19	CAPACITOR, 1 μ F 35V ELECTROLYTIC SMT TANTALUM	3	405005
C3	TRIMMER CAPACITOR	1	410001
C4	CAPACITOR, 10pF 100V CERAMIC SMT	1	415001
C2	CAPACITOR, 33pF 100V CERAMIC SMT	1	415002
C1	CAPACITOR, 68pF 100V CERAMIC SMT	1	415003
C21-C26	CAPACITOR, .01 μ F 50V CERAMIC SMT	6	415006
C6-C8, C15, C18, C20	CAPACITOR, .1 μ F 50V CERAMIC SMT	6	415007
R21	100 OHM 5% .25W MC1206 RESISTOR	1	435007
R22, R23	619 OHM 1% .25W MC1206 RESISTOR	2	435013
R1	49.9 KOHM 1% .25W MC1206 RESISTOR	1	435040
R24	100 KOHM 1% .25W MC1206 RESISTOR	1	435044
R15, R20	10 MOHM 5% .25W MC1206 RESISTOR	2	435050
R13, R14, R19, R25, R27, R28, R31, R34, R35	20.0 KOHM 1% .25W MC1206 RESISTOR	9	435058
R2-R8, R10, R26, R29, R30, R32, R33, R36	53.6 KOHM 1% .25W MC1206 RESISTOR	14	435060
R9, R12	100 KOHM 1% .25W MC1206 RESISTOR	2	435061
R11, R16, R17	10 MOHM 5% .25W MC1206 RESISTOR	3	435062
SW3, SW4	4 POSITION SMT DIP SWITCH, TAPE SEALED	2	515001

TIMER PARTS LIST			
ITEM#	DESCRIPTION	QTY	W#
PCB_CLK220E	PRINTED CIRCUIT BOARD SMT	1	700575
F1	FUSE/ POLYSWITCH 1.0AMP SMT RESETABLE	1	835002

TIMER DISPLAY PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
DS1-DS5	20 POSITION SNAP APART SOCKET, .1" SIL	3	250014
CT1, CT2	40 PIN BREAKAWAY HEADER STRIPS, STRAIGHT .1" SIL	1	250016
U2	DS90C032 LVD DIFF LINE RECEIVER SMT	1	305052
U1	IC ADSP2115 DSP PROCESSOR	1	315044
C1, C4	CAPACITOR, 100µF 25V ELECTROLYTIC SMT	2	405003
C2, C3, C5-C8	CAPACITOR, .1µF 50V CERAMIC SMT	6	415007
R6	10 OHM 5% .25W MC1206 RESISTOR	1	435002
R9-R12	220 OHM 5% .25W MC1206 RESISTOR	4	435009
R1, R4	22.1 KOHM 1% .25W MC1206 RESISTOR	2	435036
S/S/RESET/HOLD SWITCH	PUSHBUTTON SWITCH RED LED/ NO CAP	3	510095
AUTO SWITCH	PUSHBUTTON SWITCH YELLOW LED/ NO CAP	1	510096
AUTO/S/S/RESET/HOLD SWITCH CAP	WHITE SWITCH CAP	4	530004
DS5	DUAL DIGIT LED DISPLAY	1	610003
DS1-DS4	SINGLE DIGIT LED DISPLAY	4	610004
PCB_CLD220	PRINTED CIRCUIT BOARD	1	700590

PS-2600 POWER SUPPLY PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	8400 XFORMER TOP SHIELD	3	008073
	8400 XFORMER BOTTOM SHIELD	3	008074
	2600 POWER SUPPLY CHASSIS	1	027070A
	2600 POWER SUPPLY COVER	1	027071A
	2600 POWER SUPPLY HEATSINK	3	027072A
	7 1/2' BLACK POWER CORD	1	150017
	GROUND LUG	1	230002
	MULTIMATE PLUG CONTACT (LOOSE PACK)	8	230068
	PLASTIC SHELL CHASSIS CONNECTOR	1	230070
	POWER CORD CONNECTOR	1	230071
Q1-Q3	LT1085 3A POSITIVE ADJUSTABLE REGULATOR LOW DROPOUT VOLTAGE PLASTIC	3	330041
D1-D25	1N4002W RECTIFYING 1AMP SMT DIODE	25	355001
C1-C3	CAPACITOR 3300µF 35V ELECTROLYTIC LOW PROFILE	3	400030
C6-C8	CAPACITOR, 100µF 25V ELECTROLYTIC SMT	3	405003
C12, C13, C15-C17, C19, C20, C22, C23	CAPACITOR, 1µF 35V ELECTROLYTIC SMT TANTALUM	9	405005
C4, C5	CAPACITOR, .0047µF 1KV CERAMIC, UL RATED	2	410015
C9-C11, C14, C18, C21	CAPACITOR, .1µF 50V CERAMIC SMT	6	415007
C24-C27	CAPACITOR, .47µF 250V FILM	4	420032
R12, R15	100 OHM 5% .25W MC1206 RESISTOR	2	435007
R8, R10, R13, R14	150 OHM 5% .25W MC1206 RESISTOR	4	435008
R6, R11	332 OHM 1% .25W MC1206 RESISTOR	2	435010
R3	619 OHM 1% .25W MC1206 RESISTOR	1	435013
R4, R5	1.69 KOHM 1% .25W MC1206 RESISTOR	2	435017
R7, R9	2.00 KOHM 1% .25W MC1206 RESISTOR	2	435018
R1, R2	2.43 KOHM 1% .25W MC1206 RESISTOR	2	435020
DS1-DS3	HIGH INTENSITY GREEN SMT LED VERTICAL	3	605014
PCB_PS2600C	PRINTED CIRCUIT BOARD	1	700671
TR1, TR2	POWER TRANSFORMER_8400	2	800021
TR3	POWER TRANSFORMER_PS2600	1	800045
	SPACER_PEM_2600 PS	10	823079
	PC MOUNT FUSE HOLDER	2	830014
F1	SLOW BLOW FUSE, .5 AMP	1	830057
F4, F5	FUSE/ POLYSWITCH 1.0AMP SMT RESETABLE	2	835002

PS-6040 POWER SUPPLY PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	PS-60 POWER SUPPLY FACEPLATE	1	007074
	CHASSIS	1	007075
	COVER	1	007076
	HEATSINK	1	007077
	CARD BRACKET	.1	007078
	HEATSINK FIN	1	007084
	2600-18 POWER SUPPLY CABLE	1	027095A
	GRAY POWER CORD	1	150016
	GROUND LUG	1	230003
	CHASSIS MOUNT MULTI-PIN CONNECTOR	1	230011
	MULTIMATE PIN CONTACT (LOOSE PACK)	9	230015
	PATCH CLIPS	1	280000
Q4	LM317 POSITIVE ADJUSTABLE REGULATOR	1	330012
Q1-Q3	LM338 POSITIVE ADJUSTABLE REGULATOR	3	330014
D1-D10, D14	1N4002 DIODE	11	350003
D11-D13, D15-D17	CR6A4 POWER DIODE	6	350009
VR7, VR8	18ZA1 VARISTOR	2	360000
VR3-VR6	39ZA1 VARISTOR	4	360002
VR1, VR2	82ZA2 VARISTOR	2	360005
C18	CAPACITOR, 10000µF 35V ELECTROLYTIC	1	400006
C13, C15	CAPACITOR, 10µF 63V ELECTROLYTIC	2	400012
C4, C5, C7-C10	CAPACITOR, 1µF 35V TANTALUM ORANGE	6	400014
C1-C3	CAPACITOR, 22µF 25V ELECTROLYTIC	3	400017
C16, C19	CAPACITOR, 4700µF 35V ELECTROLYTIC	2	400019
C12	470UF 100V AXIAL LEAD UL APPROVED ELECTROLYTIC CAPACITOR	1	400031
C6, C11, C14, C17	CAPACITOR, .0047µF 1KV CERAMIC, UL RATED	4	410015
R5, R8, R13, R18, R19	1.00 KOHM 1% .25W METAL FILM RESISTOR	5	430107
R12	5.49 KOHM 1% .25W METAL FILM RESISTOR	1	430140
R1, R4, R7, R15-R17	10.0 KOHM 1% .25W METAL FILM RESISTOR	6	430153
R2, R3, R6, R9	100 OHM 5% .25W CARBON FILM RESISTOR	4	430212
R14	220 OHM 5% .25W CARBON FILM RESISTOR	1	430214
R10, R11	330 OHM 5% .25W CARBON FILM RESISTOR	2	430215
CR1-CR3	500 TRIM POT	3	500019
DS1-DS4	RED LED	4	600017
	PRINTED CIRCUIT BOARD, PS6040	1	700205
T1	POWER TRANSFORMER	1	800005

PS-6040 POWER SUPPLY PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	SOCKET HEAD CAP SCREW	4	820007
	PHILLIPS PANHEAD MACHINE SCREW S/S	2	820016
	PHILLIPS PAN HEAD MACHINE SCREW SS	18	820021
	HEX SOCKETHEAD S/S SCREW BLK	6	820034
	PHILLIP PANHEAD STAINLESS STEEL SCREW	7	820035
	1/4" HEX KEPNUTS S/Z	18	821005
	SMALL PATTERN KEPNUT	10	821006
	ZINC KEPNUT	4	821008
	PEM FASTENERS	2	821009
	PEM FASTENERS	1	821013
	ID=.125_OD=.187_H=.12 NYLON SPACER	6	823049
	RUBBER GROMMET	4	824005
	STRAIN RELIEF	1	824009
	INSULATOR	3	825008
	FUSE HOLDER	1	830010
F1	1.25 AMP SLOW BLOW FUSE	1	830053

2600-12 FRAME PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	LED-3 LOADED CARD	4	007104
	CLD-2600 LOADED CARD	1	027057A
	CLK-2600 LOADED CARD	1	027058A
	PS-2600 POWER UNIT	1	027059A
	2600-12 FRAME PAN	1	027063A
	2600-12 MB REAR	1	027065A
	2600-12 PAN BRACE	1	027067A
	2600-12 METAL ARMREST	1	027069A
	2600-12 MB COVER/FACE	1	027076A
	MBE-2600 LOADED CARD	1	027086A
	MBR-2600 LOADED CARD	1	027088A
	CONNECTOR KIT FOR 2600-12	1	027093A
	2600 LEFT SIDEPLATE	1	100092
	2600 RIGHT SIDEPLATE	1	100093
	ALUMINUM CONTINUOUS HINGE, 72"X1.06" X .040"	.5	110024
	FELT_STRIP	.025	130248
	26 COND FLAT RIBBON CABLE	9	150083
	10 PIN PLUG	4	230020
	3 PIN .098" PLUG FOR #26 AWG	1	230028
	PINS_220_CABLE_FEMALE	8	230067
	CONN_CABLE_220	1	230069
	RTS JACK	1	260005
	PATCH CLIPS	7	280004
	PATCH CLIPS	6	280007
	VU METER	4	630004
	LIGHT BOX FOR AL29 METER WITHOUT LAMP OR LAMPHOLDER	4	630008
	FLAT WASHER	1	822007
	SHOULDER WASHER	1	822008
	4-40 X .250 HEX ZINC	20	823016
	#6 THUMB SCREW	1	823029
	4-40 X .50 ROUND NYLON SPACER	4	823038
	4-40 X .375 THREADED HEX NYLON STANDOFF	4	823045
	RECESSED BUMPER FOR #8 SCREW	4	824032
	METER TERMINAL	8	826001
	SPEAKER	1	960000

2600-18 FRAME PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	A2000 MB POWER CONNECTOR	1	003579
	LED-3 LOADED CARD	4	007104
	CLD-2600 LOADED CARD	1	027057A
	CLK-2600 LOADED CARD	1	027058A
	2600-18 FRAME PAN	1	027073A
	2600-18 MB REAR	1	027074A
	2600-18 PAN BRACE	1	027077A
	2600-18 METAL ARMREST	1	027078A
	2600-18 MB COVER/FACE	1	027079A
	MBE-2600 LOADED CARD	1	027086A
	MBE-2606 LOADED CARD	1	027087A
	MBR-2600 LOADED CARD	1	027088A
	CONNECTOR KIT FOR 2600-18	1	027094A
	2600 LEFT SIDEPLATE	1	100092
	2600 RIGHT SIDEPLATE	1	100093
	ALUMINUM CONTINUOUS HINGE, 72"X1.06" X .040"	.5	110024
	FELT_STRIP	.028	130248
	26 COND FLAT RIBBON CABLE	9	150083
	10 PIN PLUG	4	230020
	3 PIN .098" PLUG FOR #26 AWG	1	230028
	PINS_220_CABLE_FEMALE	8	230067
	CONN_CABLE_220	1	230069
	PATCH CLIPS	7	280004
	PATCH CLIPS	6	280007
	VU METER	4	630004
	LIGHT BOX FOR AL29 METER WITHOUT LAMP OR LAMPHOLDER	4	630008
	4-40 X .250 HEX ZINC	20	823016
	#6 THUMB SCREW	1	823029
	4-40 X .50 ROUND NYLON SPACER	4	823038
	4-40 X .375 THREADED HEX NYLON STANDOFF	4	823045
	RECESSED BUMPER FOR #8 SCREW	4	824032
	METER TERMINAL	8	826001
	SPEAKER	1	960000

2600-12 CONNECTOR KIT PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	2600 MANUAL	1	027099A
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	14	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	359	200101
	METALIZED PLASTIC STRAIGHT HOOD FOR DB25 PLUG, W/S 200100	13	200102
	9 POSITION PLASTIC HOOD, 4-40 JACK SCREWS AND STRAIGHT CABLE EXIT	1	200107
	25 POSITION PLASTIC HOOD, 4-40 JACK SCREWS AND STRAIGHT CABLE EXIT	1	200108
	DB9 INDIVIDUAL CRIMP PIN PLUG	1	200109
	CRIMP TOOL FOR 220 DB PLUG	1	850068
	PIN EXTRACTOR TOOL FOR 220 DB PINS	1	850069

2600-18 CONNECTOR KIT PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	2600 MANUAL	1	027099A
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	20	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	509	200101
	METALIZED PLASTIC STRAIGHT HOOD FOR DB25 PLUG, W/S 200100	19	200102
	9 POSITION PLASTIC HOOD, 4-40 JACK SCREWS AND STRAIGHT CABLE EXIT	1	200107
	25 POSITION PLASTIC HOOD, 4-40 JACK SCREWS AND STRAIGHT CABLE EXIT	1	200108
	DB9 INDIVIDUAL CRIMP PIN PLUG	1	200109
	CRIMP TOOL FOR 220 DB PLUG	1	850068
	PIN EXTRACTOR TOOL FOR 220 DB PINS	1	850069

2600 CONSOLE PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	2600-18 PS-60 POWER SUPPLY	1	007010
	SL-2600 STEREO LINE INPUT MODULE	1	027000A
	MM-2600 MIC MONO INPUT MODULE	1	027001A
	OM-2600 OUTPUT MODULE	1	027002A
	CRS-2600 CONTROL ROOM/STUDIO MODULE	1	027005A
	LS-2600 LINE SELECT MODULE	1	027007A
	TR-2600FF TAPE REMOTE MODULE	1	027008A
	TR-2600SS TAPE REMOTE MODULE	1	027009A
	TIMER-2600 ASSEMBLY	1	027038A
	BK-2600 BLANK MODULE	1	027039A
	2600-12 WIRED MAINFRAME	1	027050A
	2600-18 WIRED MAINFRAME	1	027052A
	2600-18 PS CABLE	1	027096A
	2600 SPARE PARTS KIT	1	053576

2600 SPARE PARTS KIT PARTS LIST

ITEM#	DESCRIPTION	QTY	W#
	WIRED SELMARK CARBON MONO FADER FOR 2600	1	053577
	WIRED SELMARK CARBON STEREO FADER FOR 2600	1	053578
	WIRED ON/OFF LICON SWITCH FOR 2600	2	053579
	DB25 INDIVIDUAL CRIMP PIN PLUG FOR 220 CONNECTOR KIT	1	200100
	MALE PIN FOR DB25 PLUG, W/S 200100	30	200101
	METALIZED PLASTIC STRAIGHT HOOD FOR DB25 PLUG, W/S 200100	1	200102
	2017 MIC PREAMP IC	1	320003
	LM675 POWER OP AMP	2	320007
	OP-275 DUAL LINEAR OP-AMP SMT	2	325002
	4053 SMT	2	385000
	10K POT, DUAL AUDIO	1	500029
	4 POLE PUSHBUTTON SWITCH, ALTERNATE ACTION	1	510085
	2 POLE PUSHBUTTON SWITCH, ALTERNATE ACTION	2	510097
	2 POLE PUSHBUTTON SWITCH, MOMENTARY	1	510113
	DPDT RELAY,5V	1	550006
	5V LED REPLACEMENT FOR T 1 3/4 LAMP RED SLEEVE REQUIRED	1	600025
	T 1 3/4 MIDGET FLANGED BASE SINGLE CHIP YELLOW LED LAMP REPLACEMENT	1	600029
	HIGH INTENSITY AMBER SMT LED RIGHT ANGLE	2	605010
	ULTRABRIGHT RIGHT ANGLE RED SMT LED	2	605017
	ULTRABRIGHT RIGHT ANGLE GREEN SMT LED	2	605018
	ULTRABRIGHT RIGHT ANGLE YELLOW SMT LED	2	605019
	PHILLIPS PANHEAD MACHINE SCREW S/S	10	820016
	SMALL FUSE, .315 AMP	2	830016

Schematic Drawings

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Mother Board—Extender (MBE-2011)

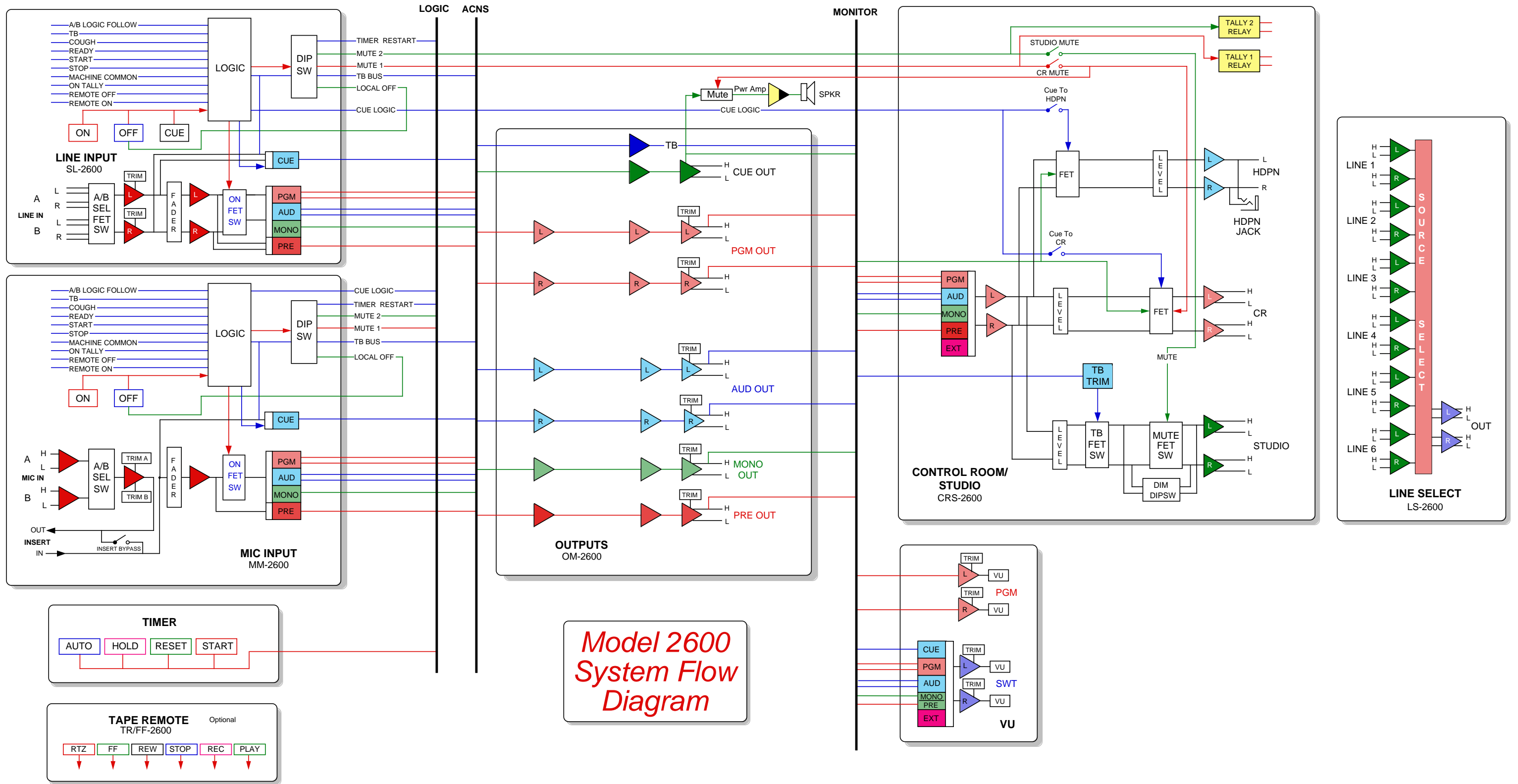
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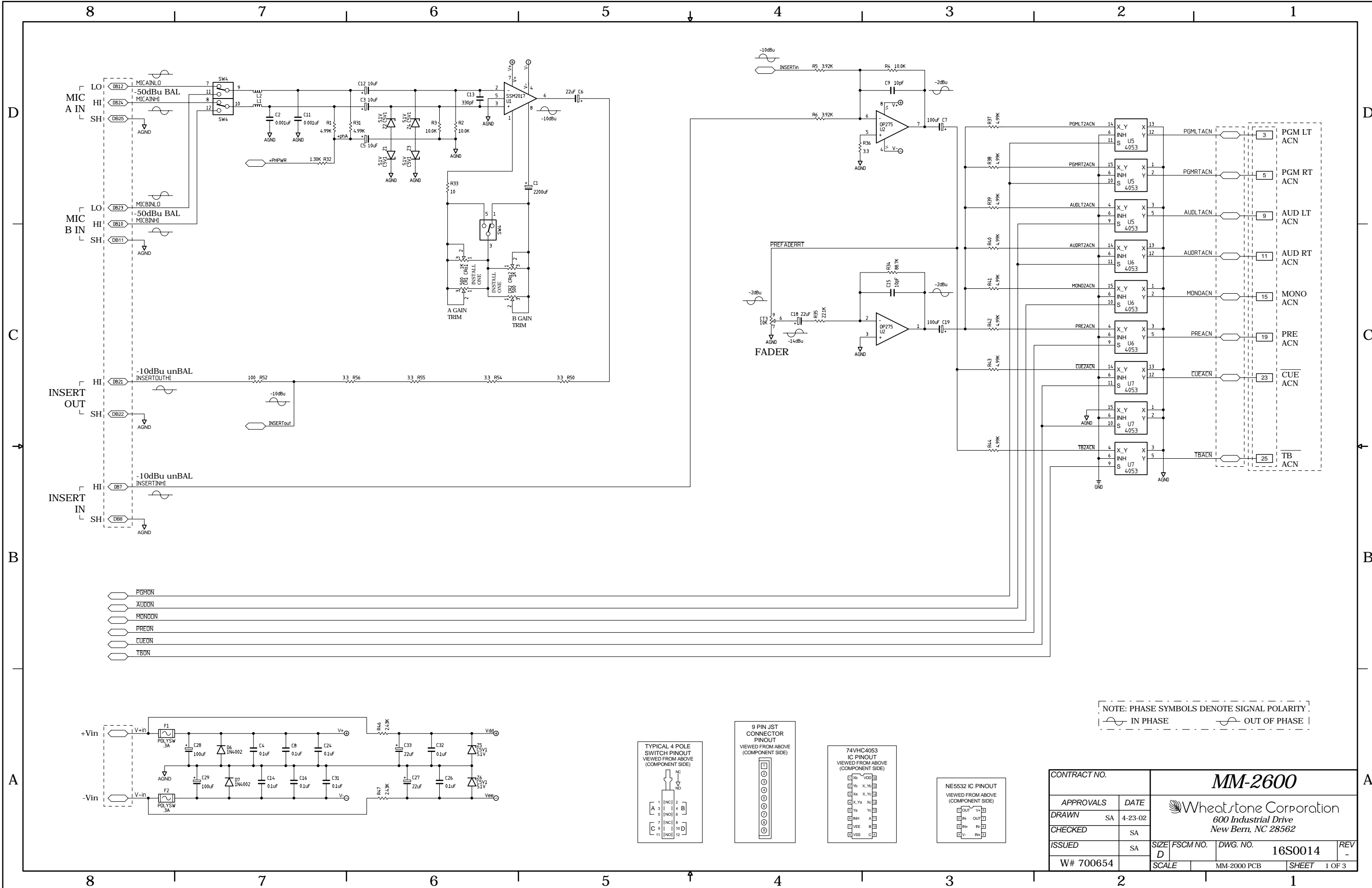
Mother Board—Right (MBR-2600)

schematic	10-32
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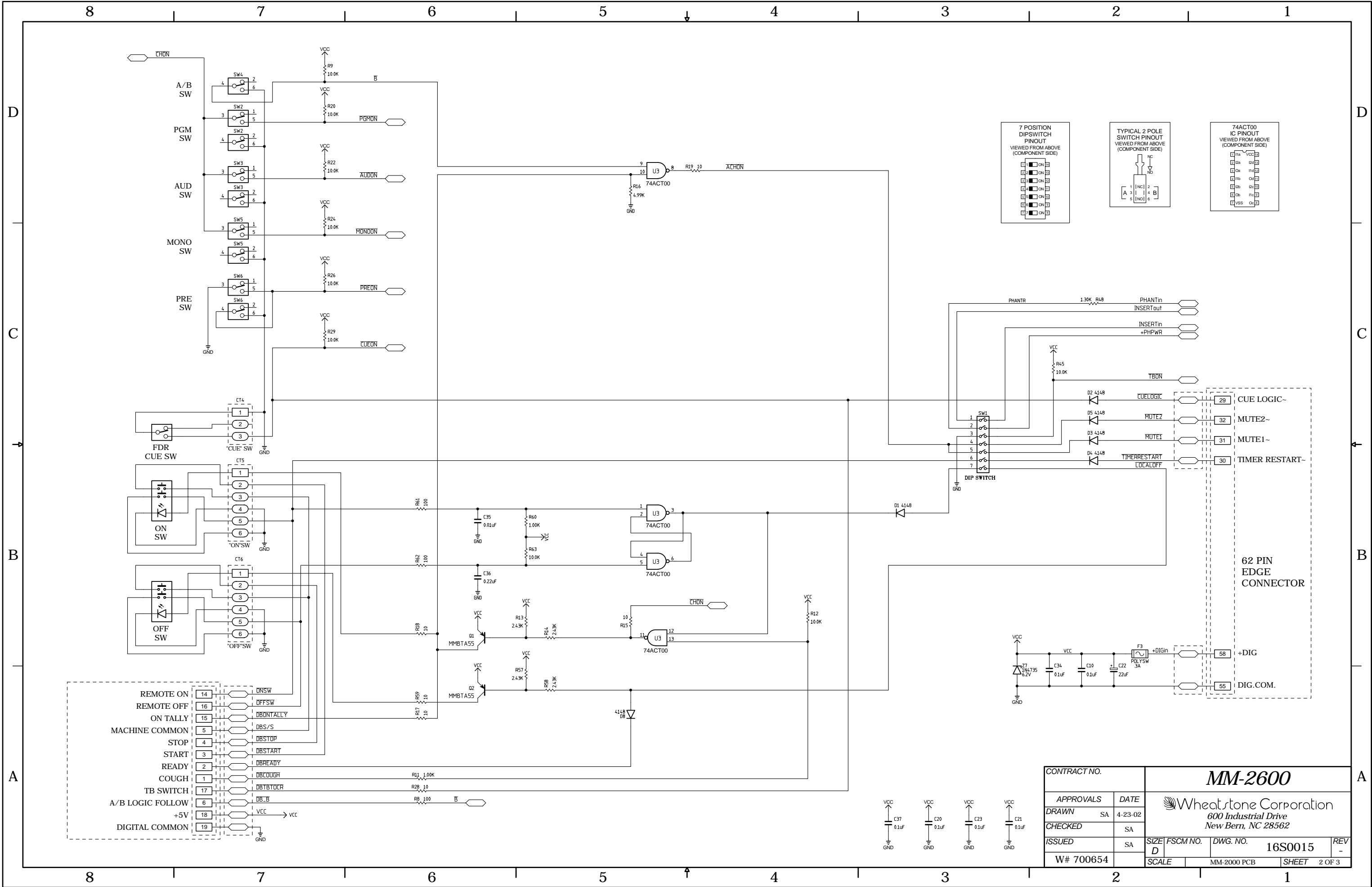
Power Supply (PS-6040)

schematic	10-34
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MM-2600 Mono Mic Input Module Schematic - Sheet 1 of 3



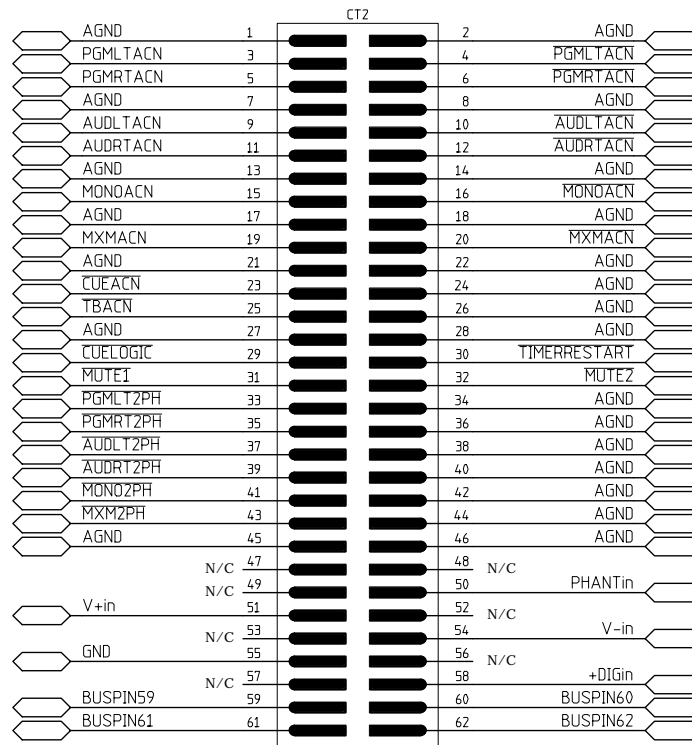
MM-2600 Mono Mic Input Module Schematic - Sheet 2 of 3

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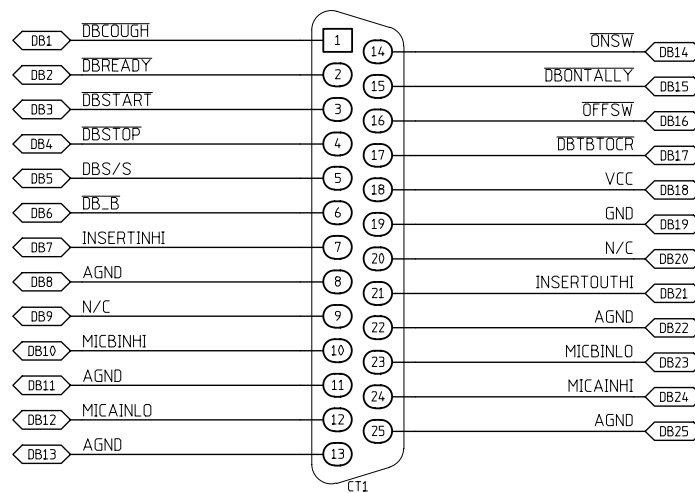



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EDGE CONNECTOR BUSS CHART



DB-25 CONNECTOR

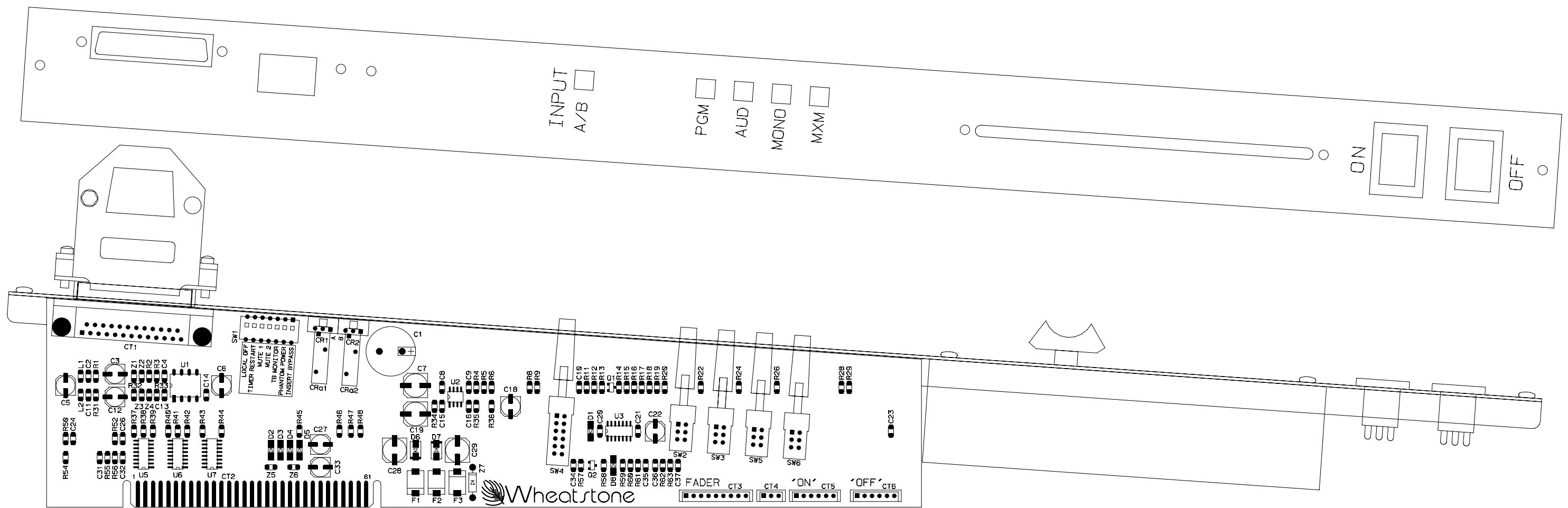


CONTRACT NO.		MM-2600			
APPROVALS		DATE		<div> Wheatstone Corporation</div> <div>600 Industrial Drive</div> <div>New Bern, NC 28562</div>	
DRAWN	SA	4-23-02			
CHECKED	SA				
ISSUED	SA				
W# 700654		SIZE	FSCM NO.	DWG. NO.	REV
		B		16S0024	-
		SCALE	MM-2000 PCB	SHEET	3 OF 3

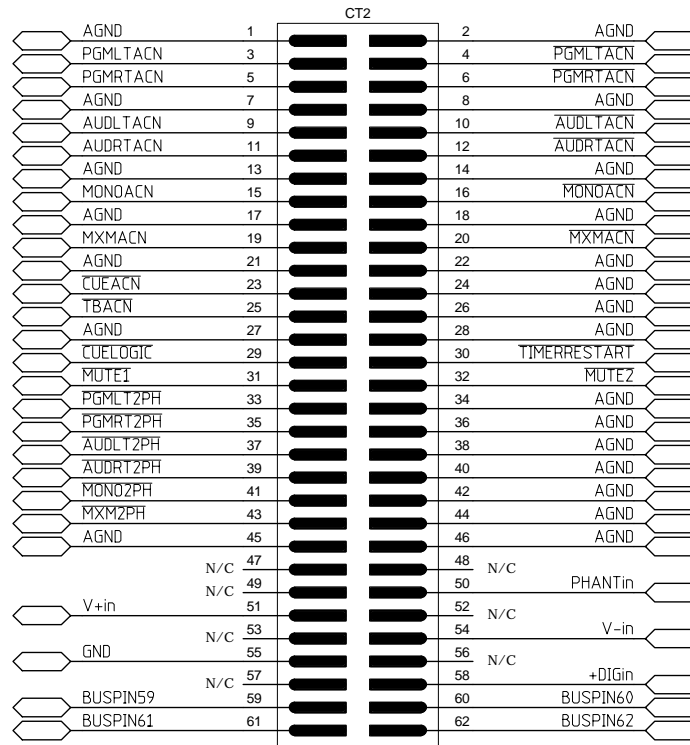
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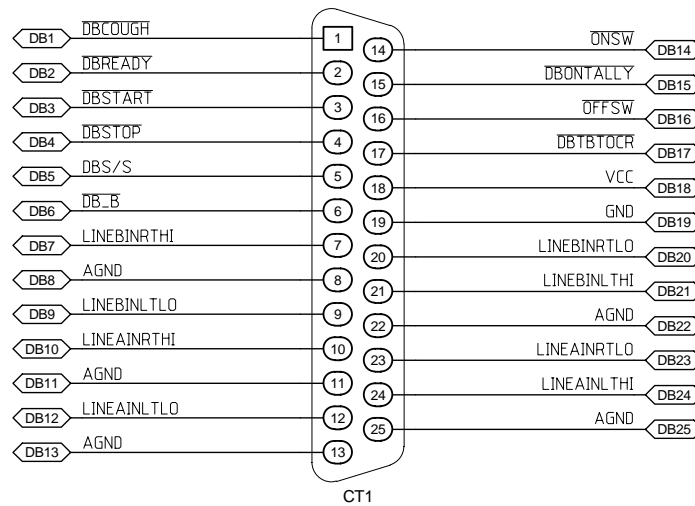
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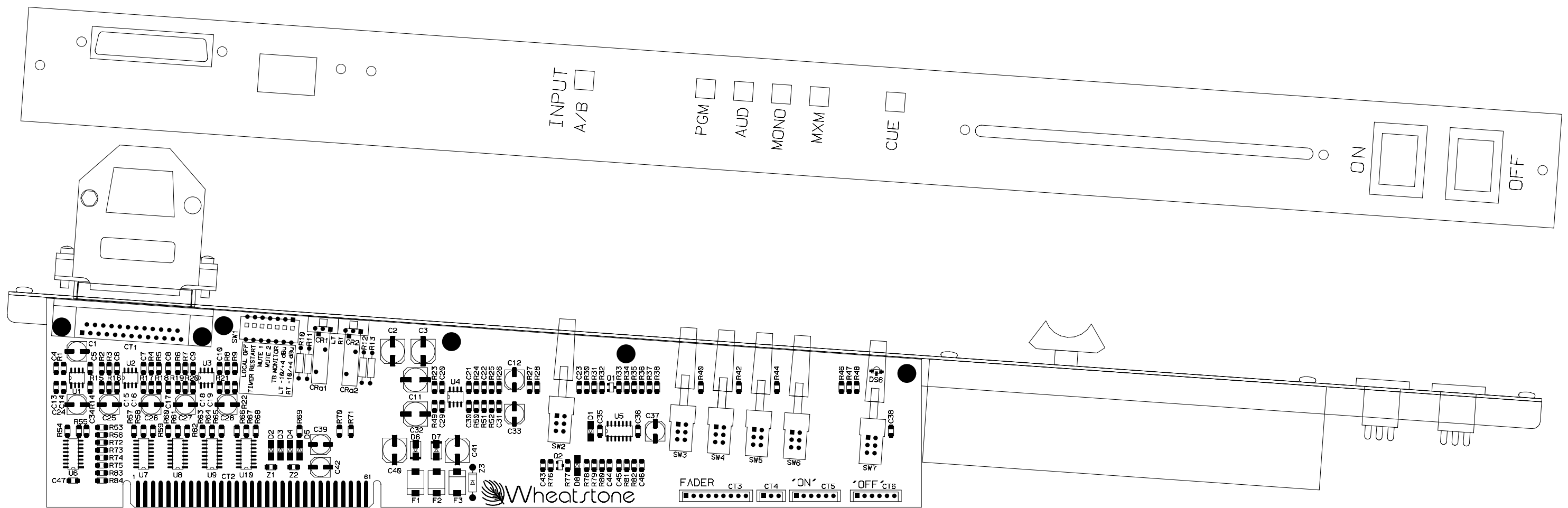
EDGE CONNECTOR BUSS CHART

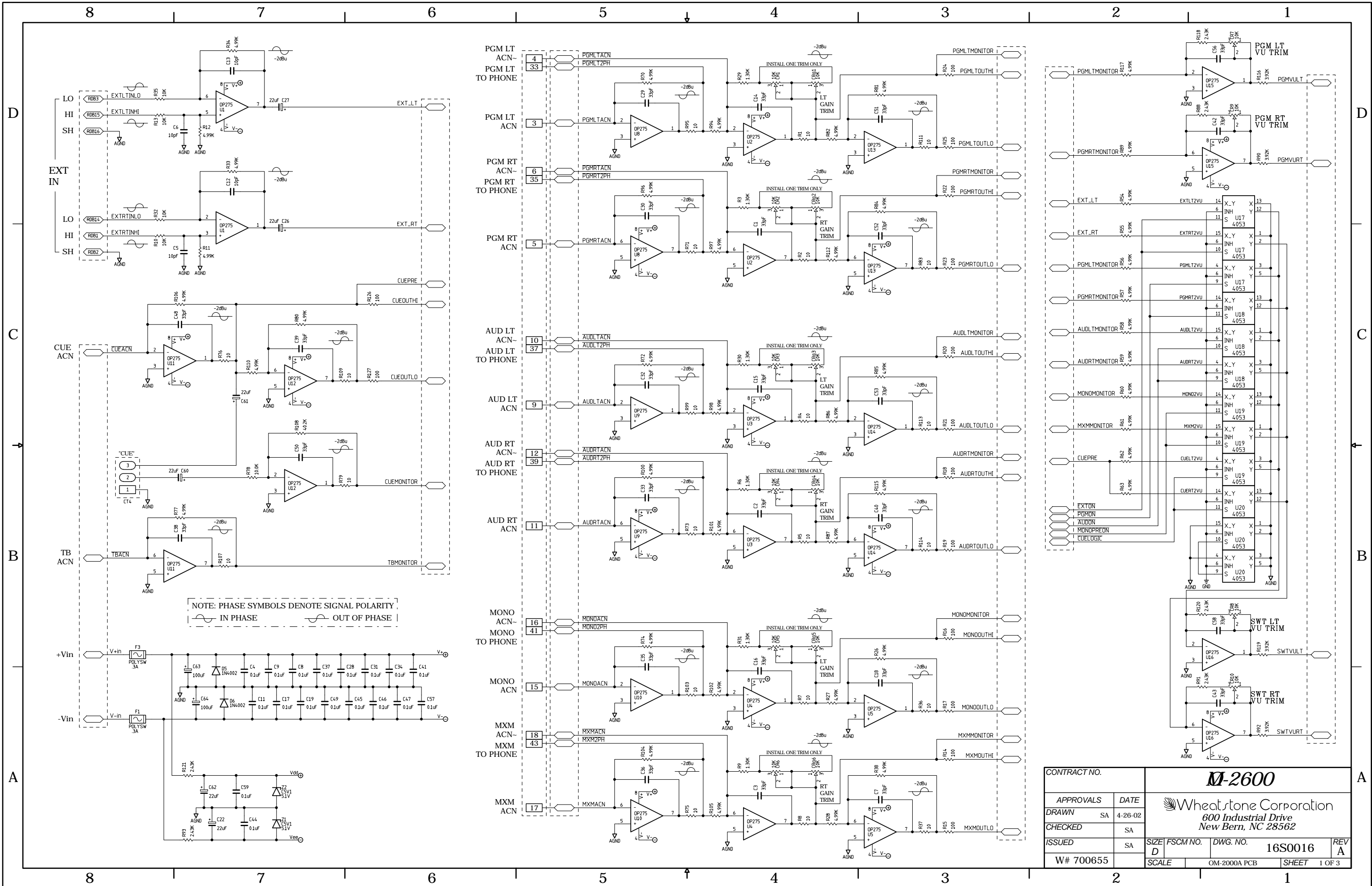
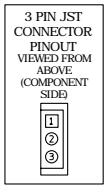
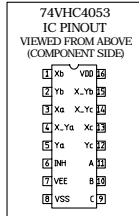
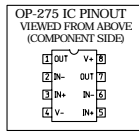


DB-25 CONNECTOR



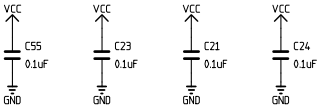
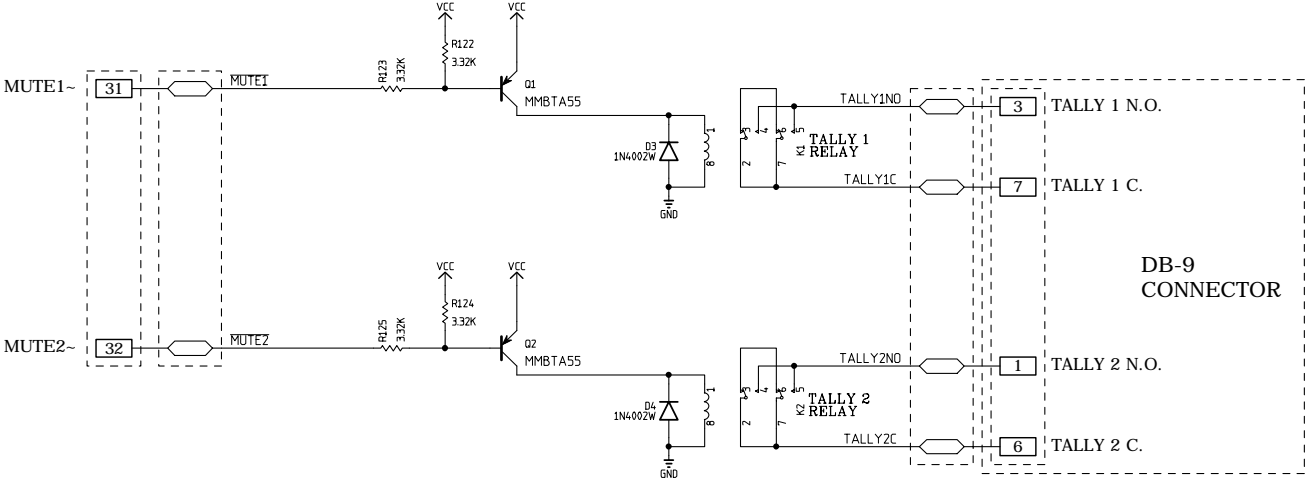
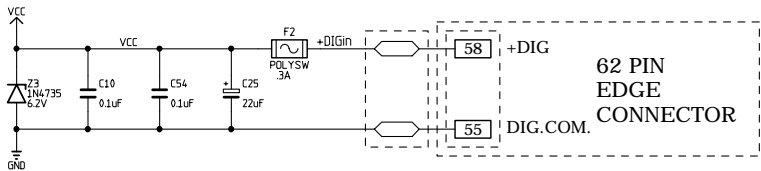
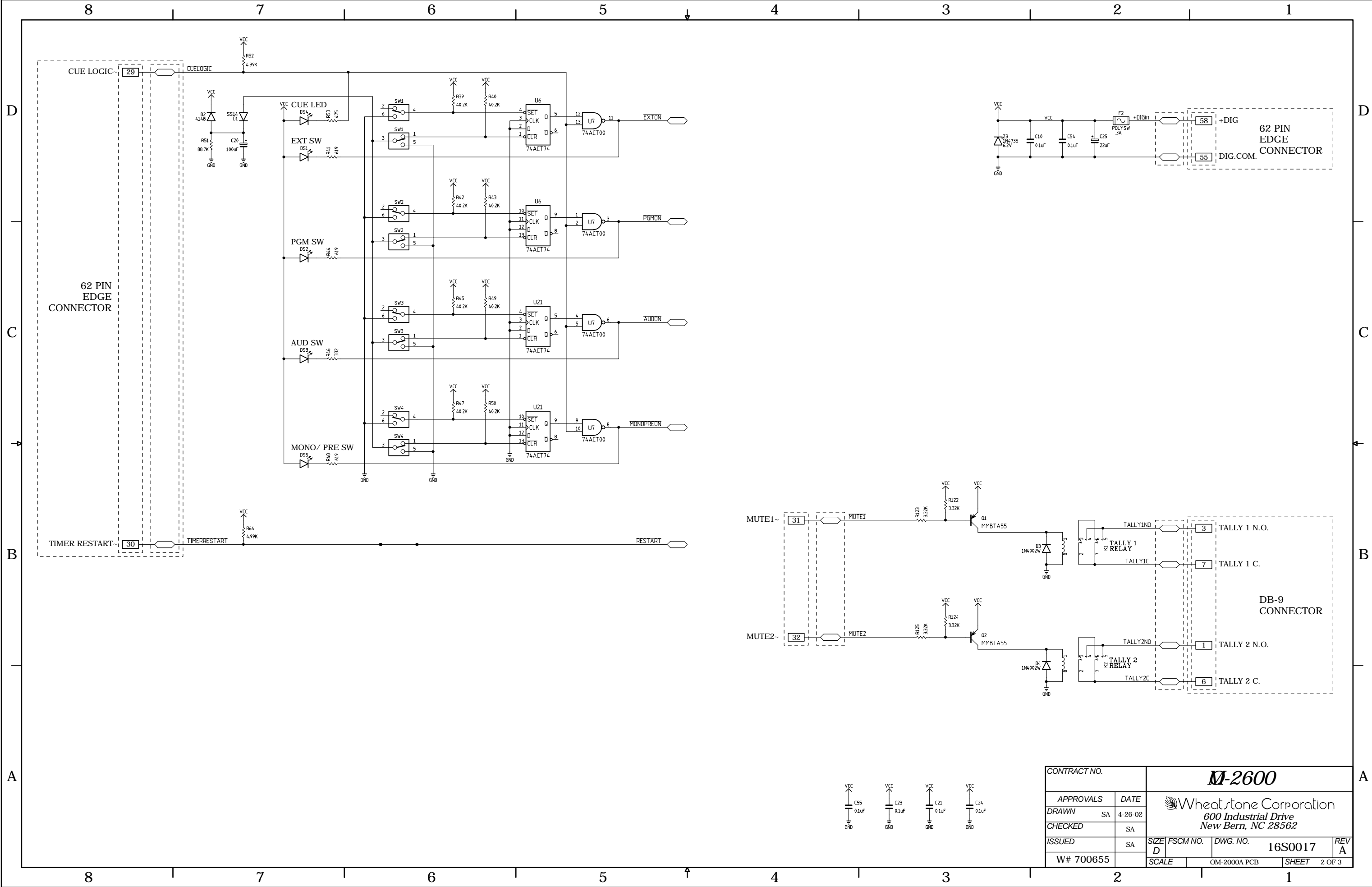
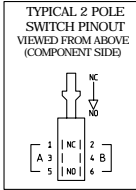
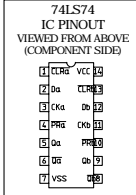
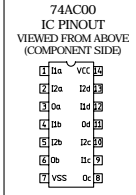
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APPROVALS		DATE		<div>Wheatstone Corporation</div> <div>600 Industrial Drive</div> <div>New Bern, NC 28562</div>	
DRAWN SA		4-24-02			
CHECKED		SA			
ISSUED		SA			
W# 700656		SIZE B	FSCM NO.	DWG. NO.	REV
				16S0019	-
		SCALE	SL-2000 PCB	SHEET	3 OF 3





CONTRACT NO.		M-2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 4-26-02		
CHECKED	SA	SIZE D	FSCM NO. 16S0016
ISSUED	SA	DWG. NO.	16S0016
W# 700655		SCALE	OM-2000A PCB
		SHEET	1 OF 3

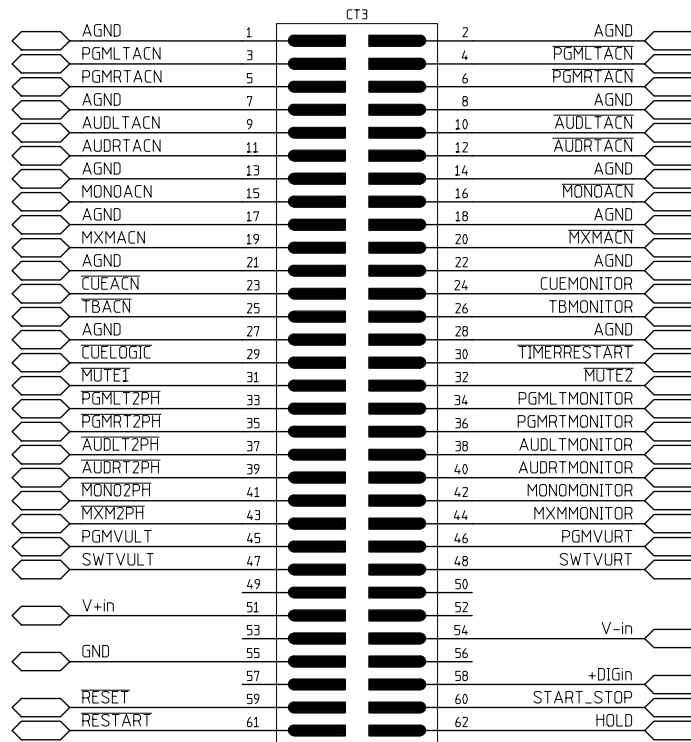
OM-2600 Output Module Schematic - Sheet 1 of 3



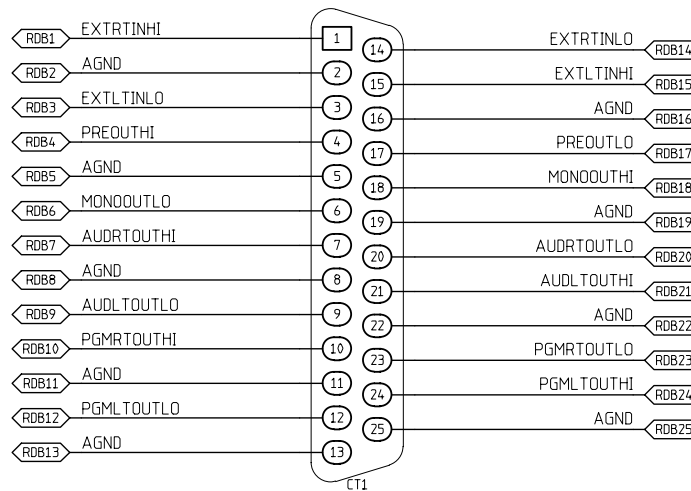
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APPROVALS	DATE	 Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562			
DRAWN	SA 4-26-02				
CHECKED	SA				
ISSUED	SA	SIZE D	FSCM NO.	DWG. NO. 16S0017	REV A
W# 700655		SCALE	OM-2000A PCB	SHEET	2 OF 3

OM-2600 Output Module Schematic - Sheet 2 of 3

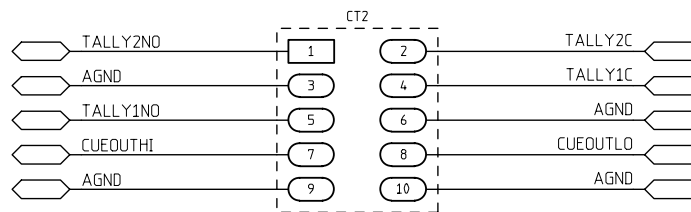
EDGE CONNECTOR BUSS CHART



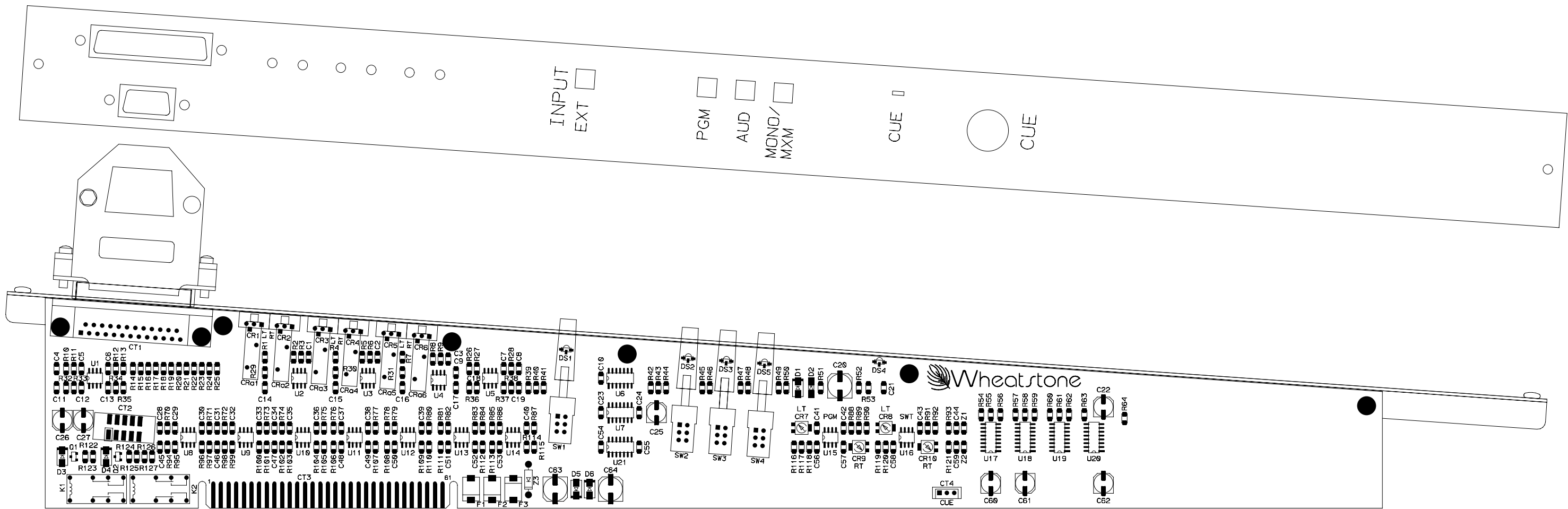
RIGHT DB-25 CONNECTOR

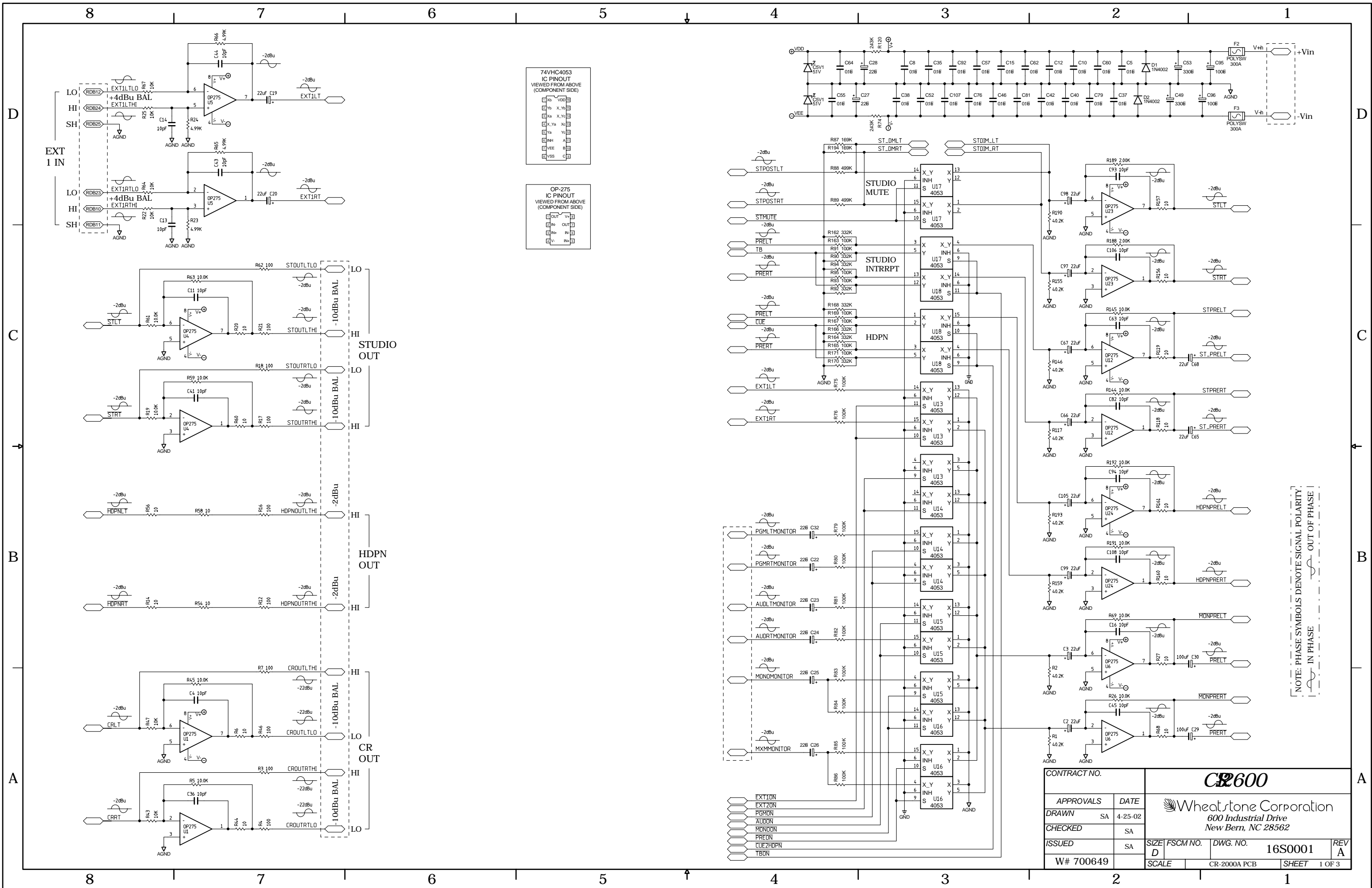


TO LEFT DB-9 CONNECTOR

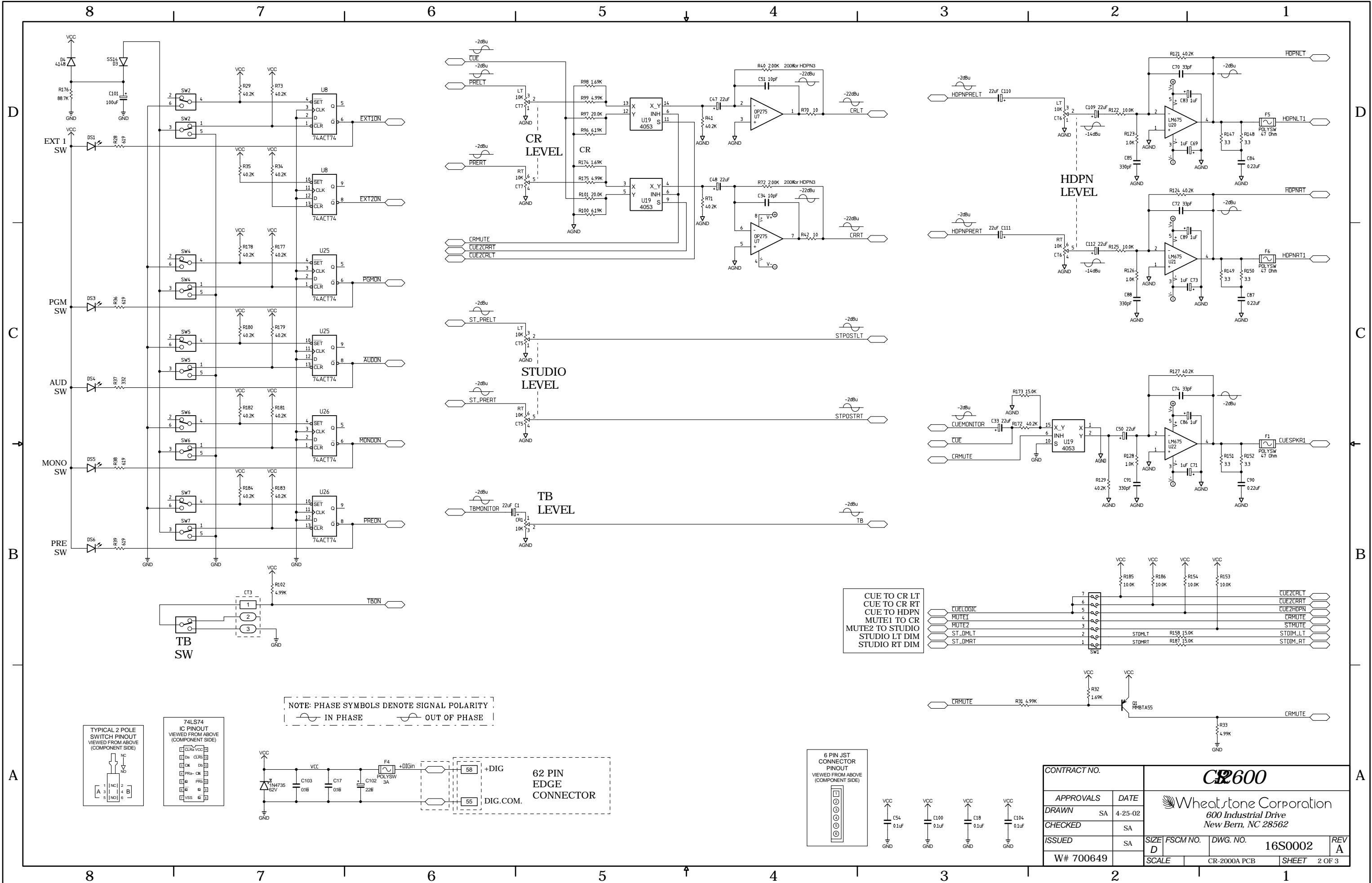


CONTRACT NO.		M-2600			
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562			
DRAWN	SA				
CHECKED	SA				
ISSUED	SA	SIZE	FSCM NO.	DWG. NO.	REV
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		SCALE	OM-2000A PCB	SHEET	3 OF 3





CRS-2600 Control Room/Studio Module Schematic - Sheet 1 of 3



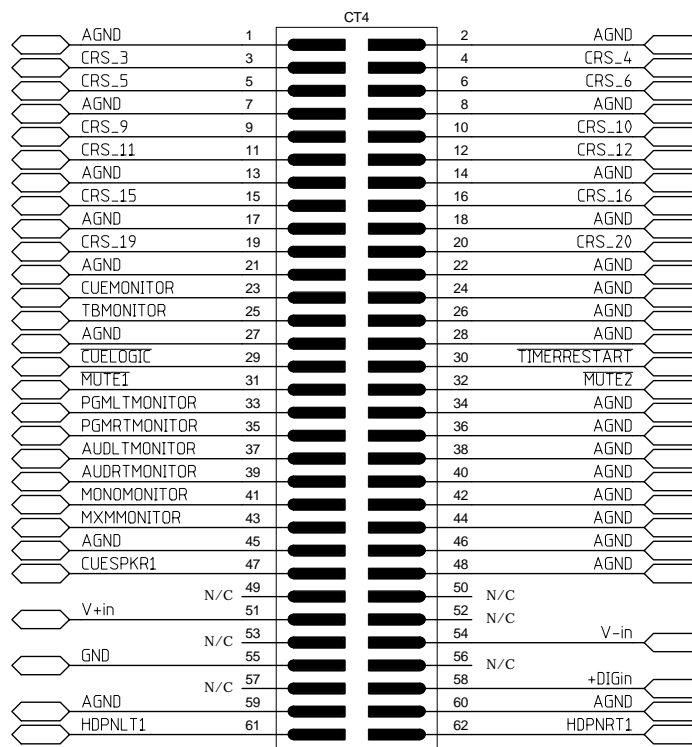
CRS-2600 Control Room/Studio Module Schematic - Sheet 2 of 3

2



1

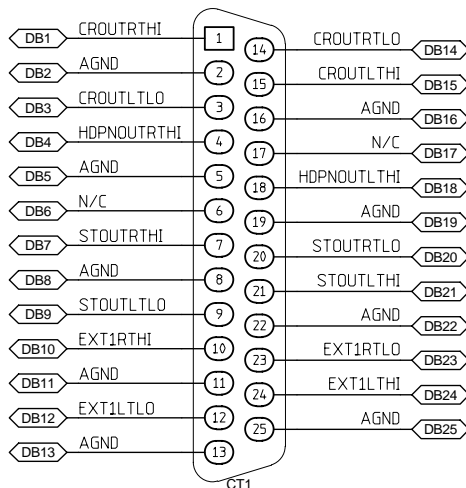
EDGE CONNECTOR BUSS CHART



B


B

DB-25 CONNECTOR



A

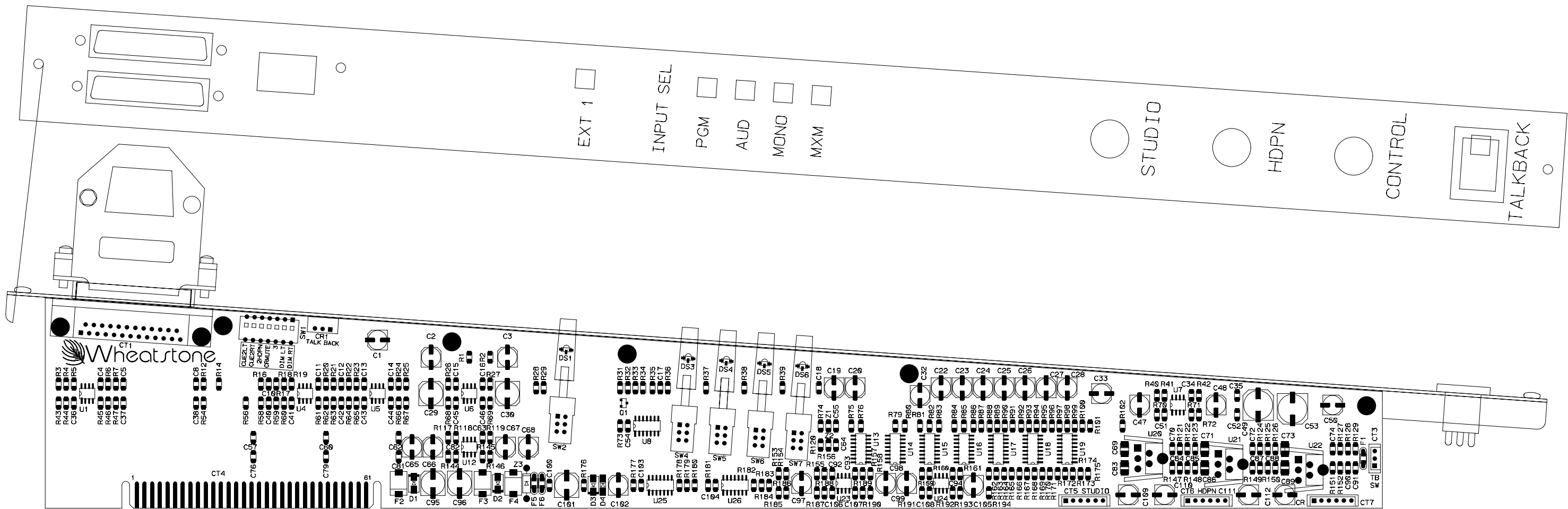
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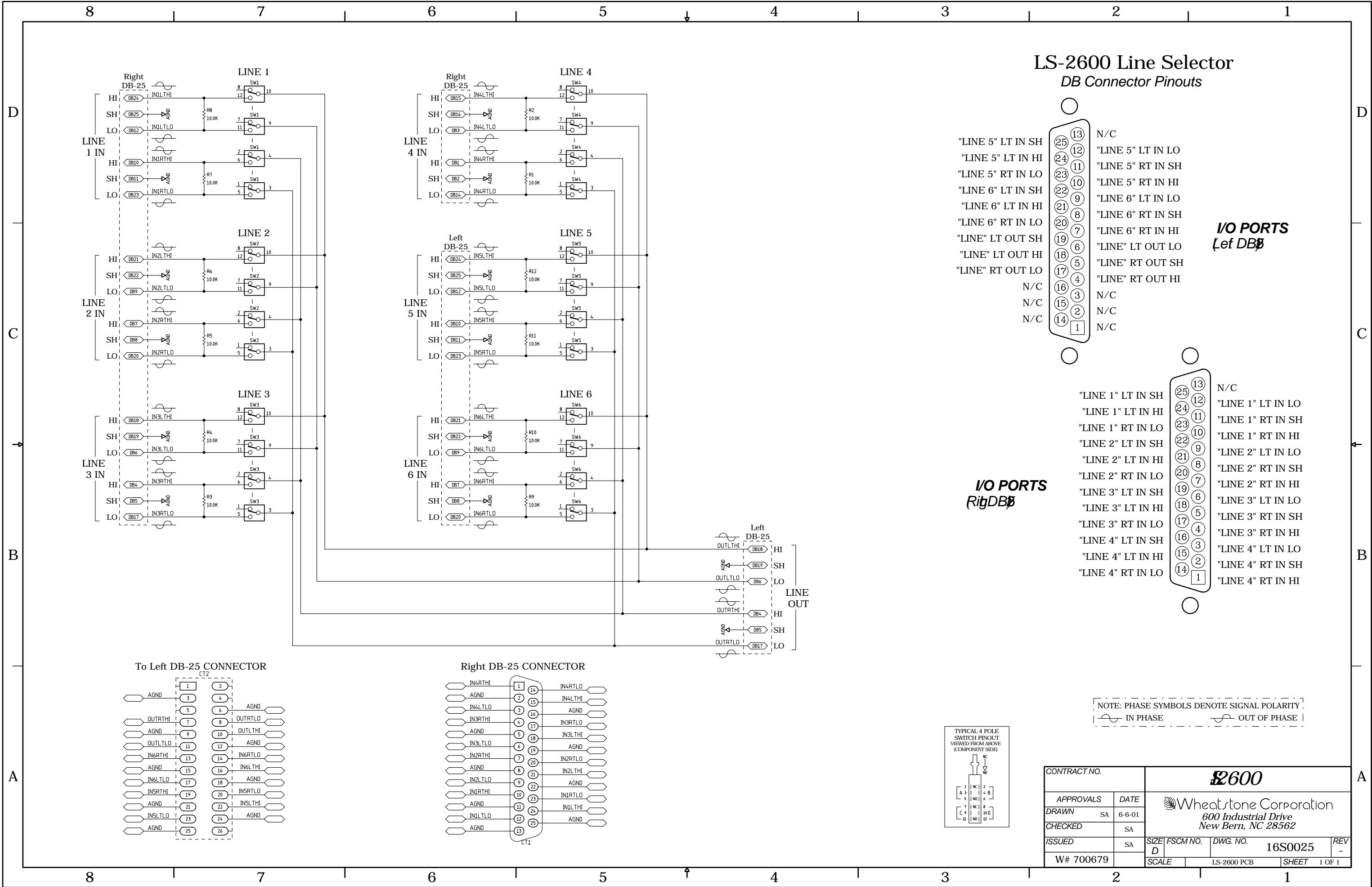
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APPROVALS		DATE		<div> Wheatstone Corporation</div> <div>600 Industrial Drive</div> <div>New Bern, NC 28562</div>	
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CHECKED		SA			
ISSUED		SA			
W# 700649		SIZE B	FSCM NO.	DWG. NO. 16S0013	REV -
		SCALE	CR-2000A PCB	SHEET	3 OF 3

2

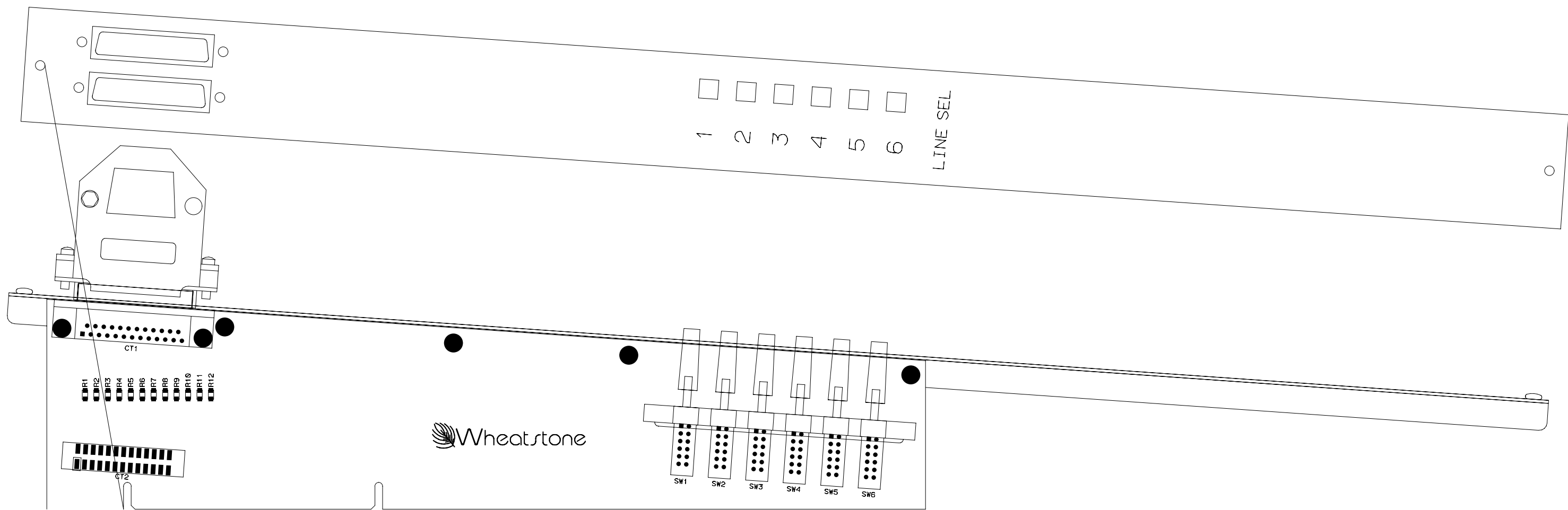


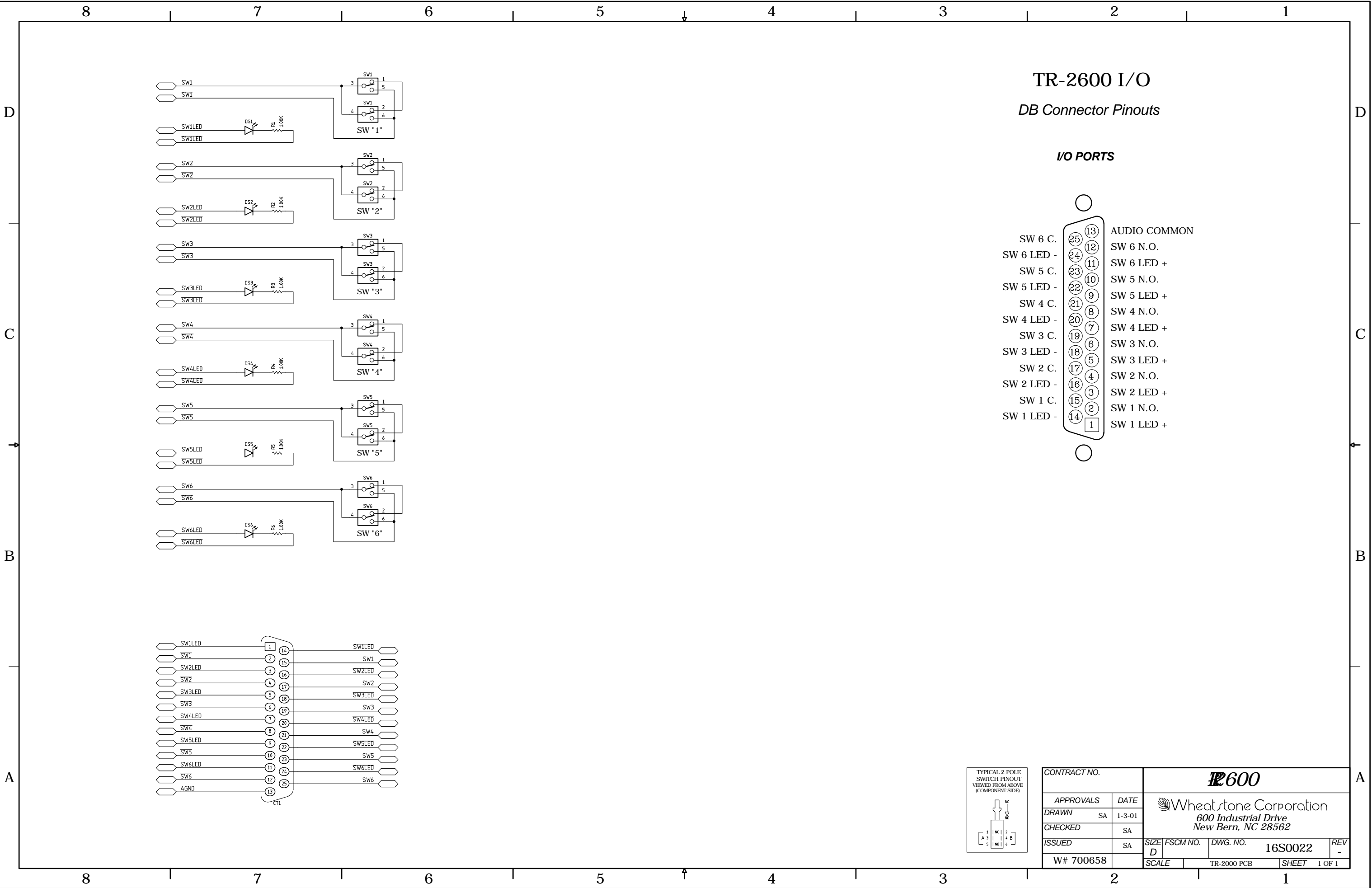
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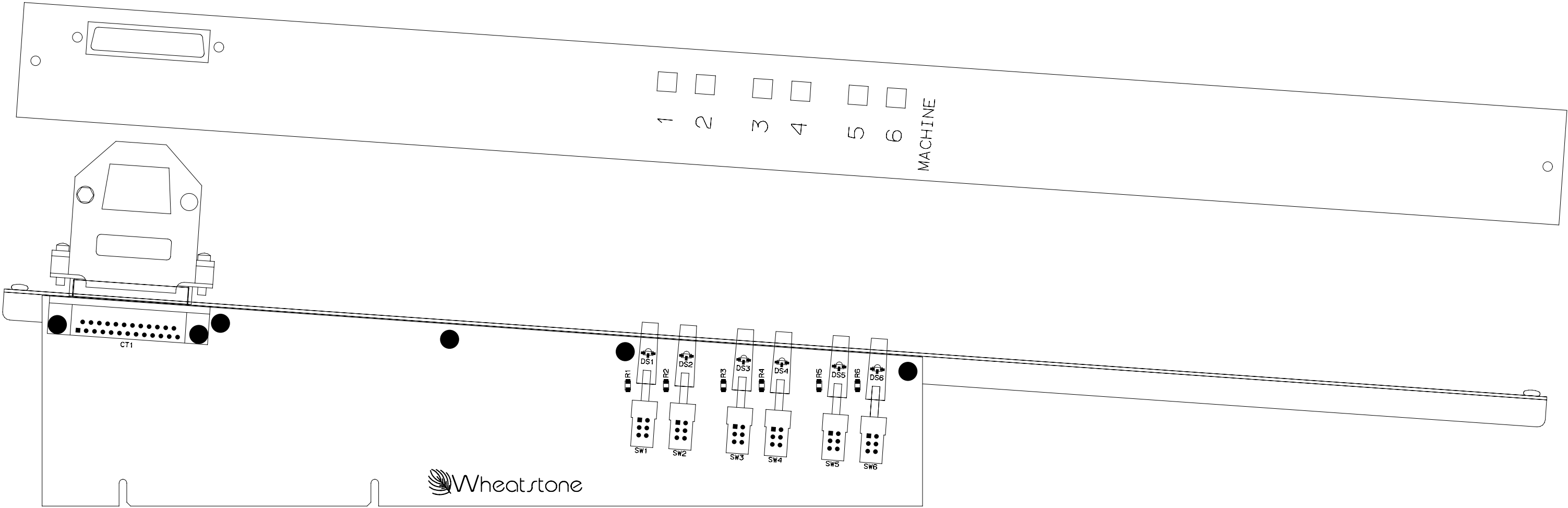


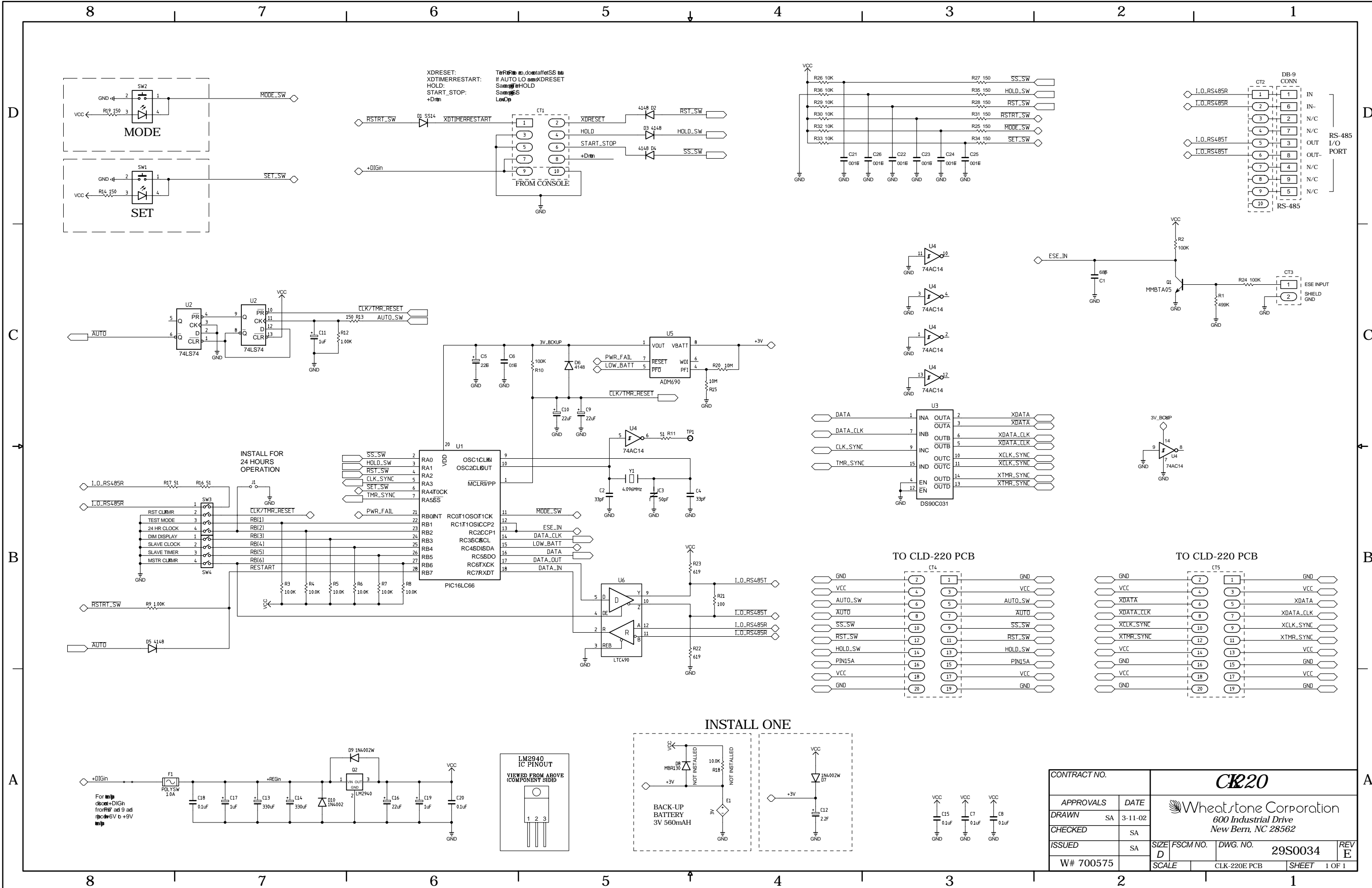


LS-2600 Line Select Module Schematic - Sheet 1 of 1

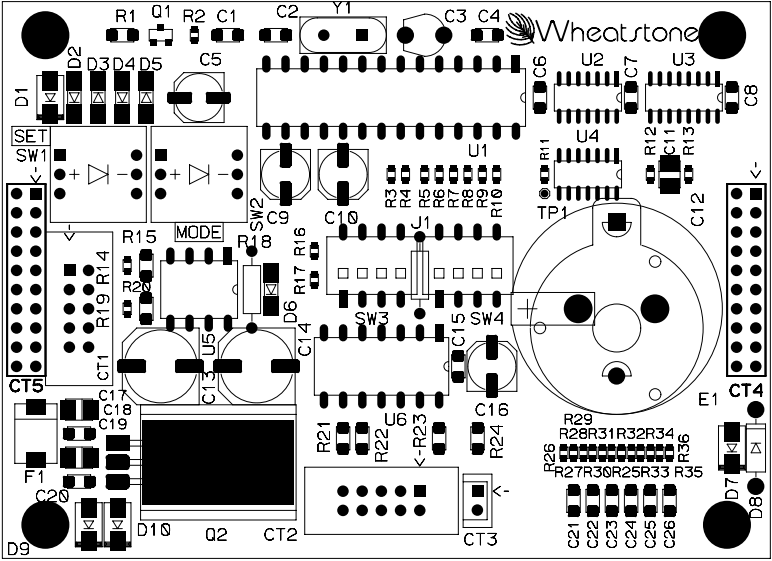


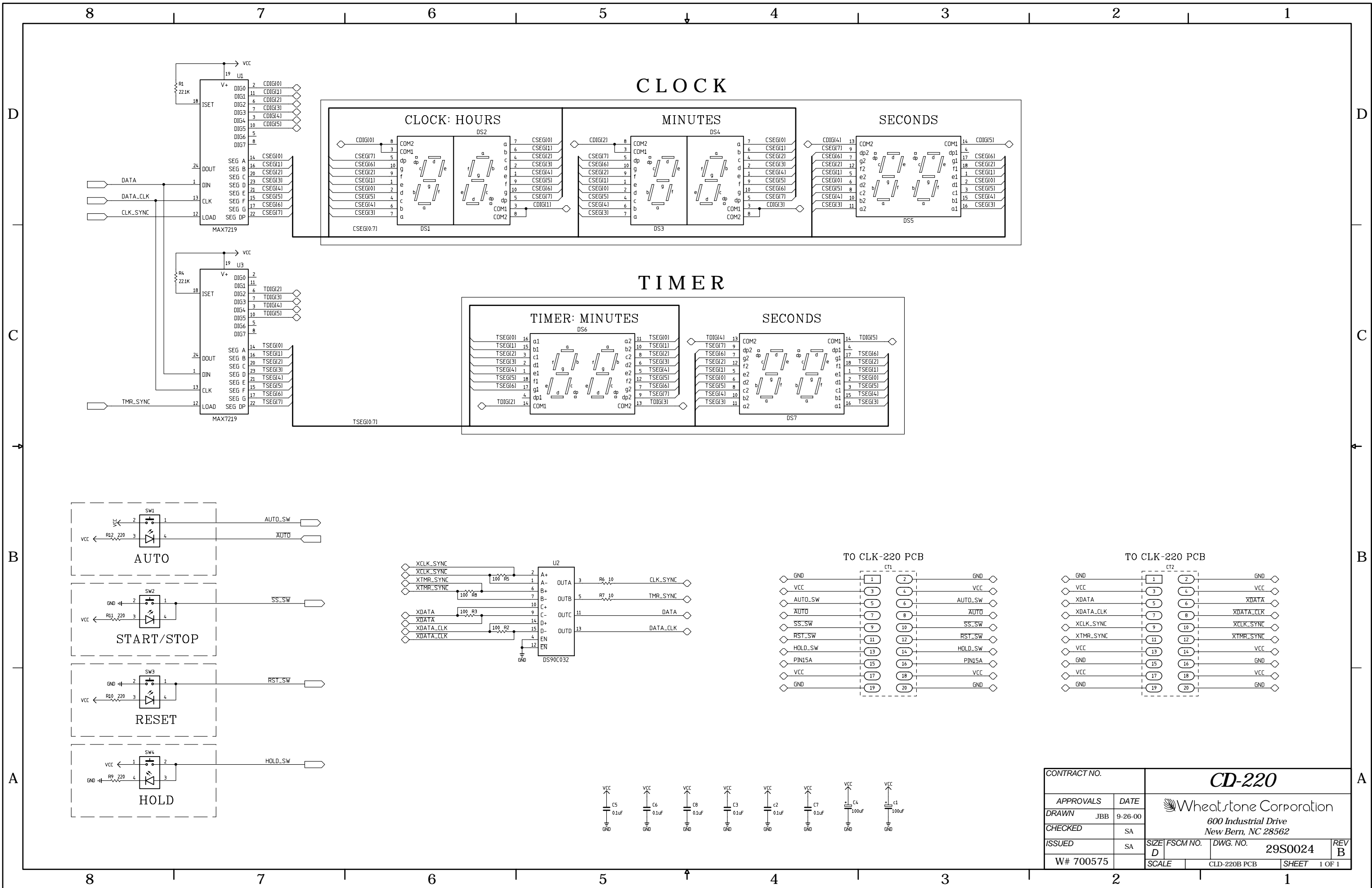




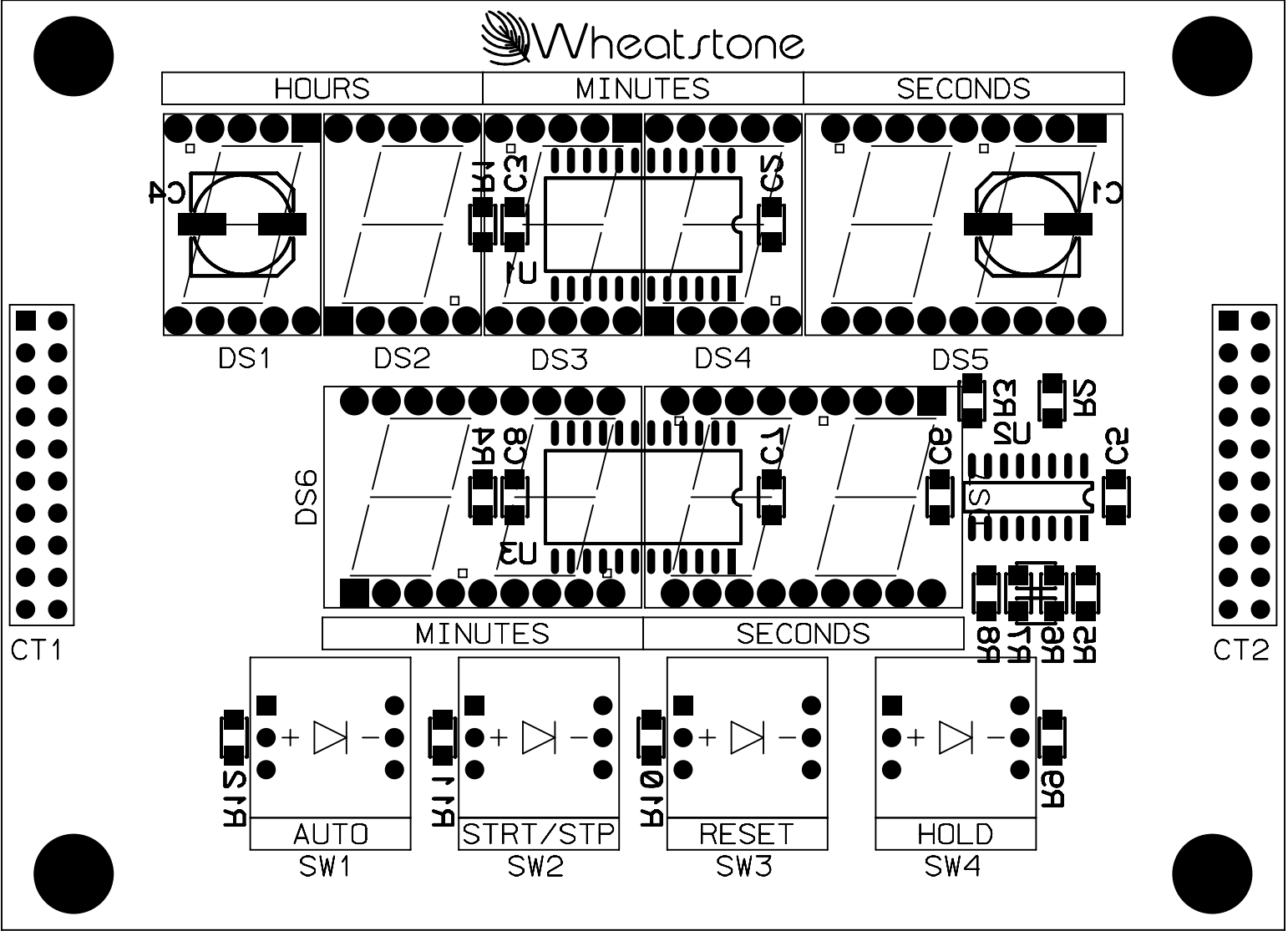


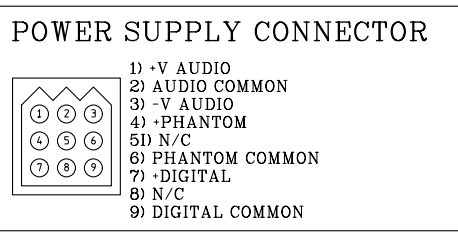
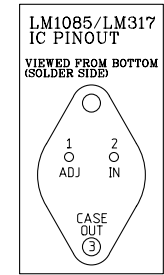
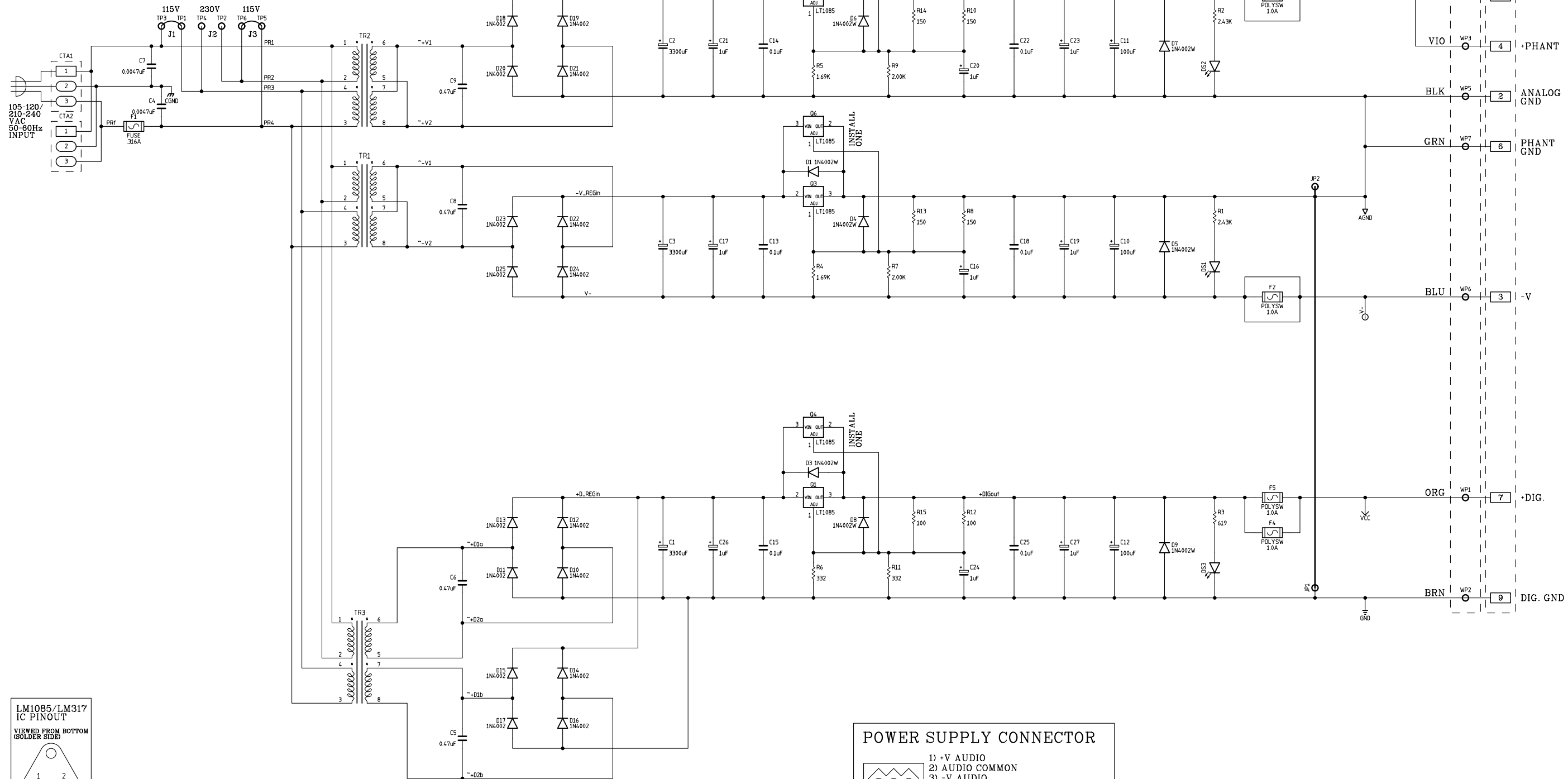
CLK-220 ClockTimer Schematic Sheet 1 of 1





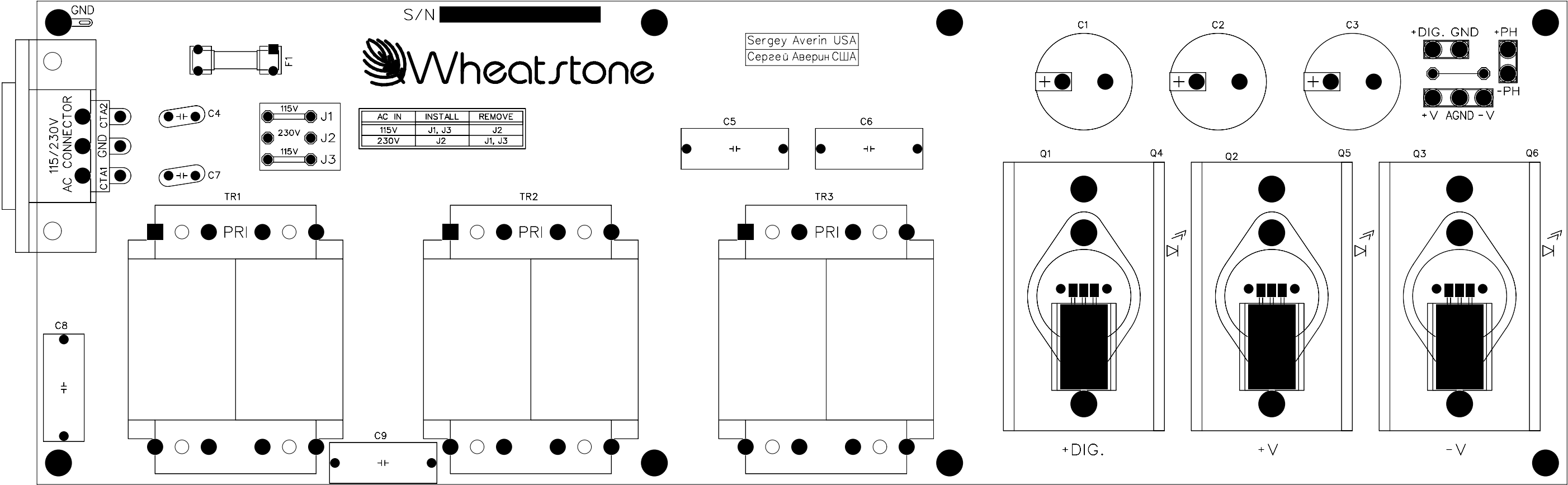
CLD-220 ClockTimer DisplaySchematic Sheet 1 of 1

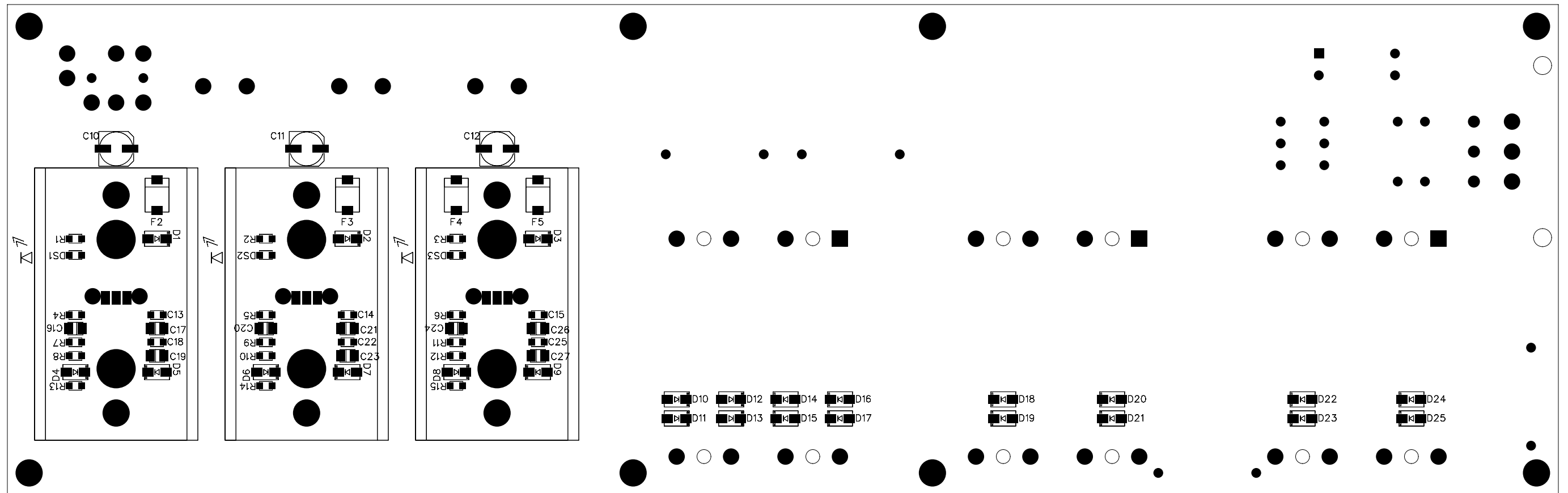




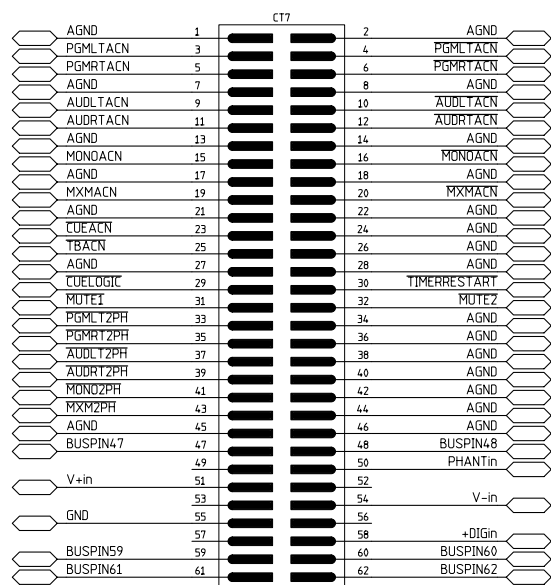
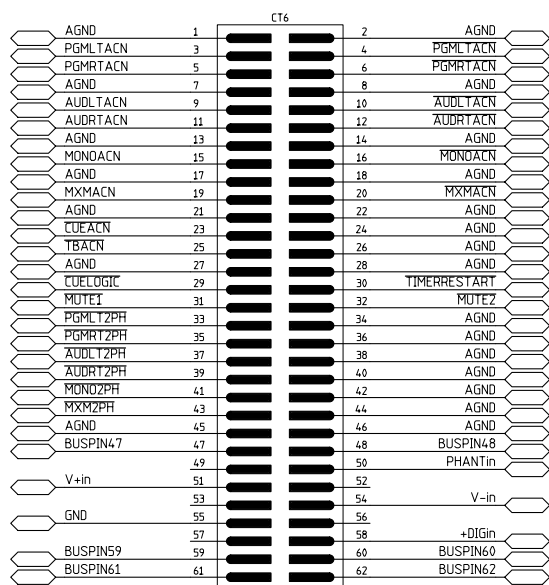
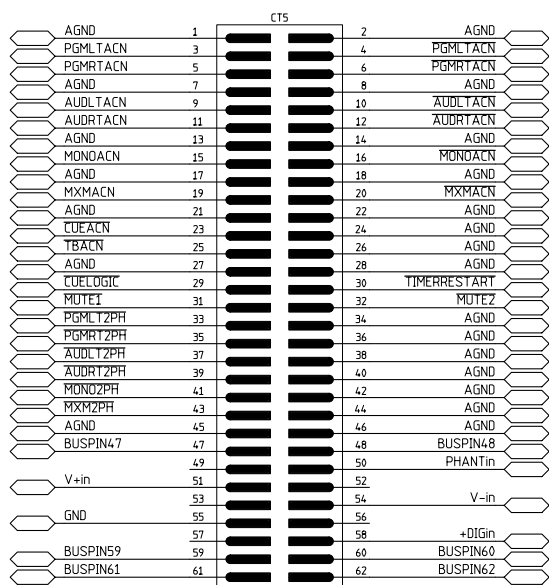
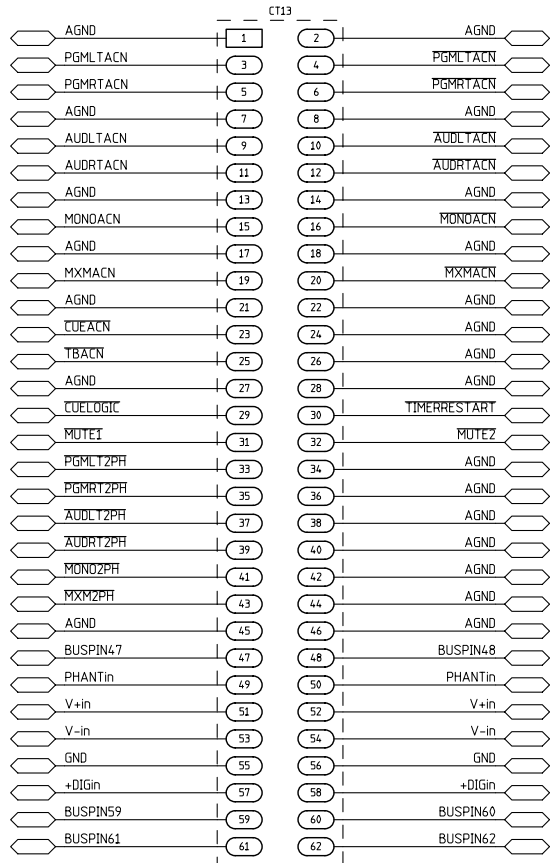
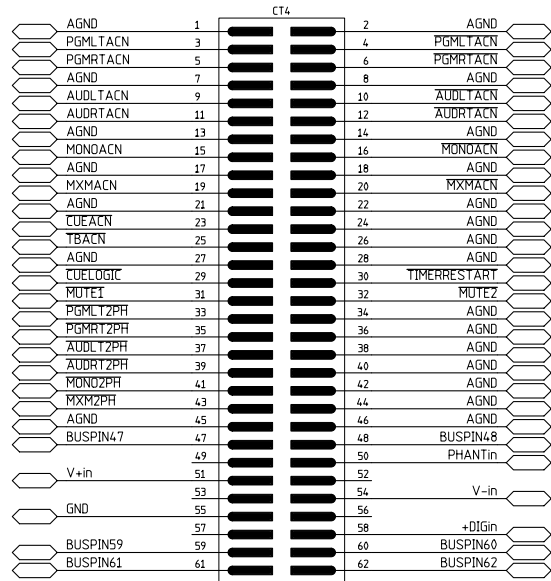
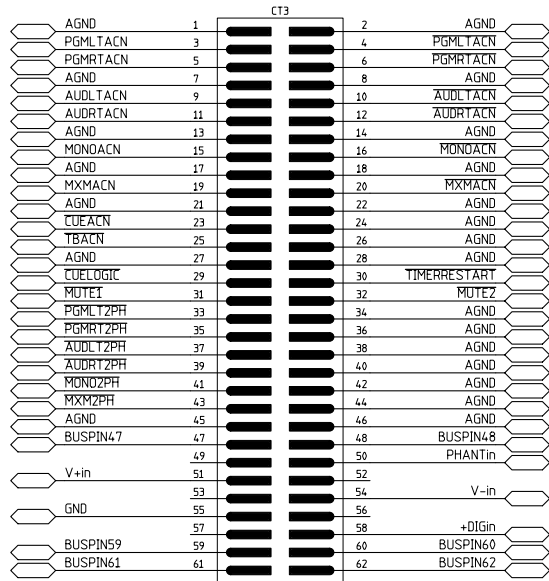
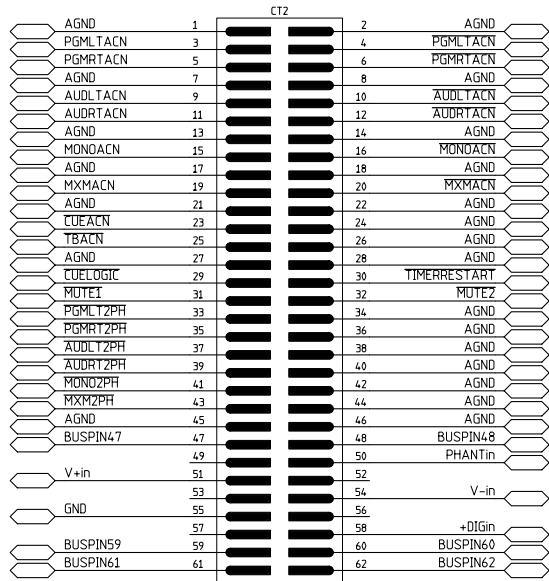
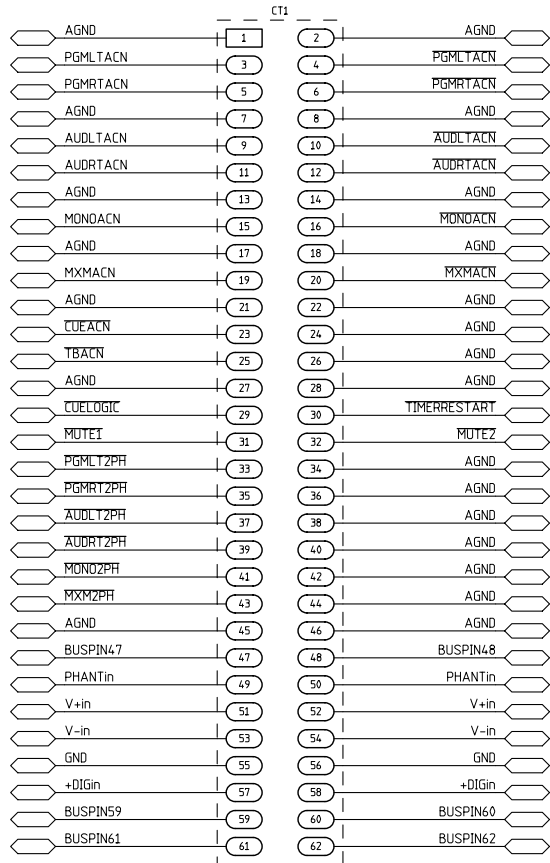
CONTRACT NO.		PS-2600	
APPROVALS	DATE	AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA		
CHECKED	SA	SIZE	FSCM NO.
ISSUED	SA	D	DWG. NO.
W# 700671		16S0023	
SCALE		PS-2600C PCB	SHEET 1 OF 1


PS-2600 Power Supply Schematic - Sheet 1 of 1



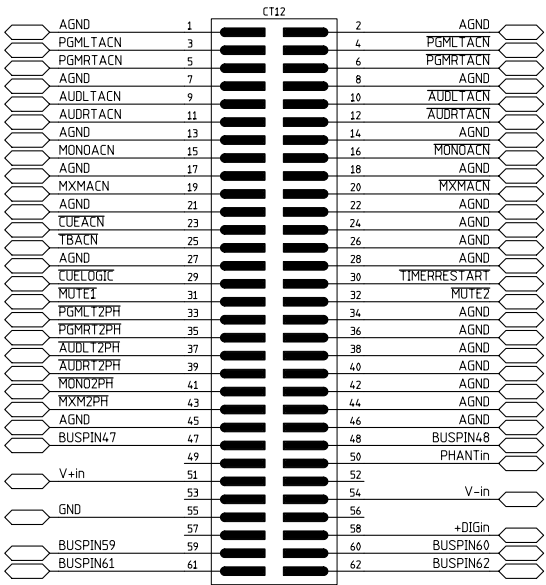
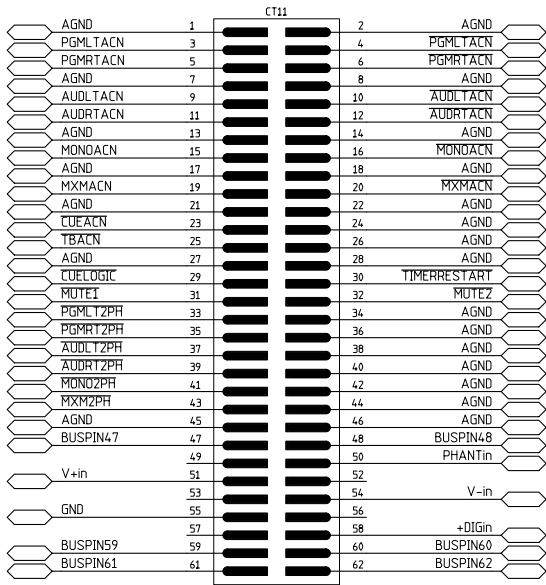
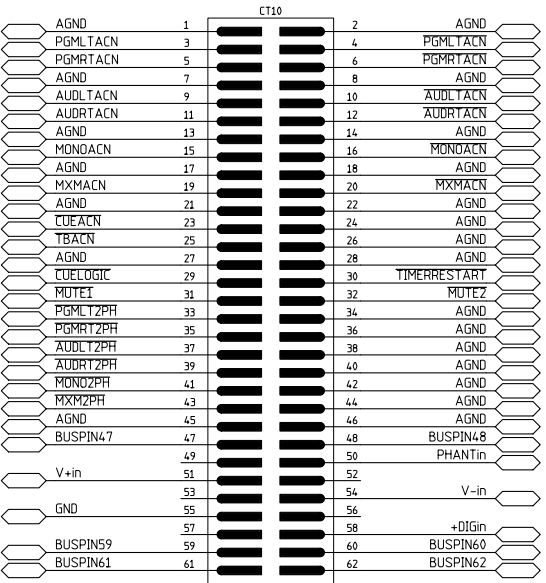
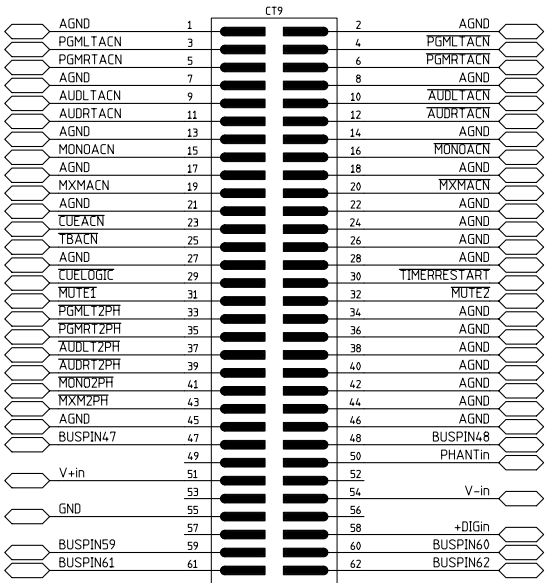
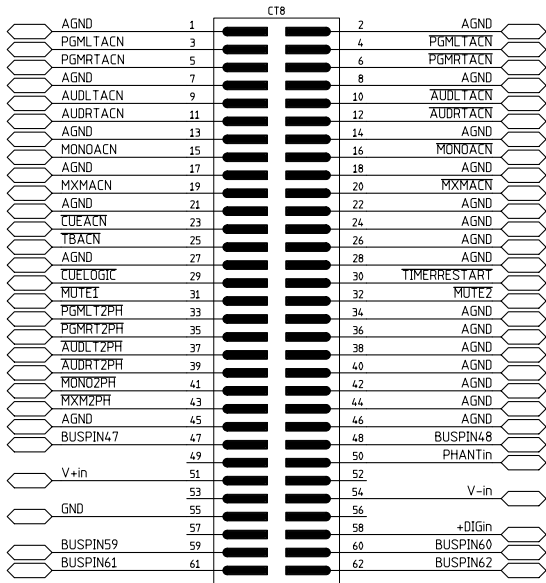



EDGE CONNECTORS BUSS CHART

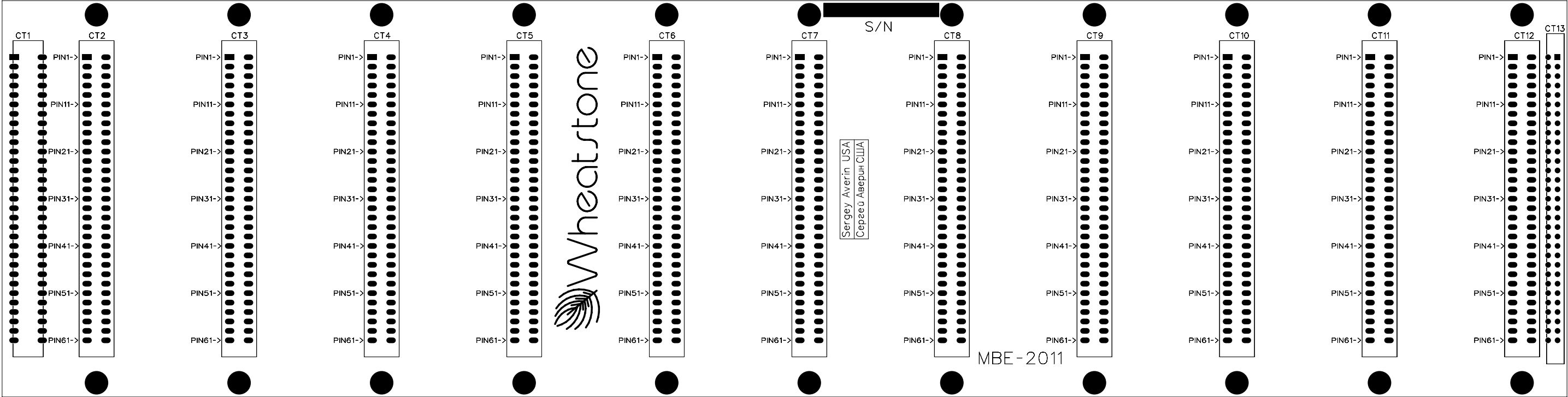


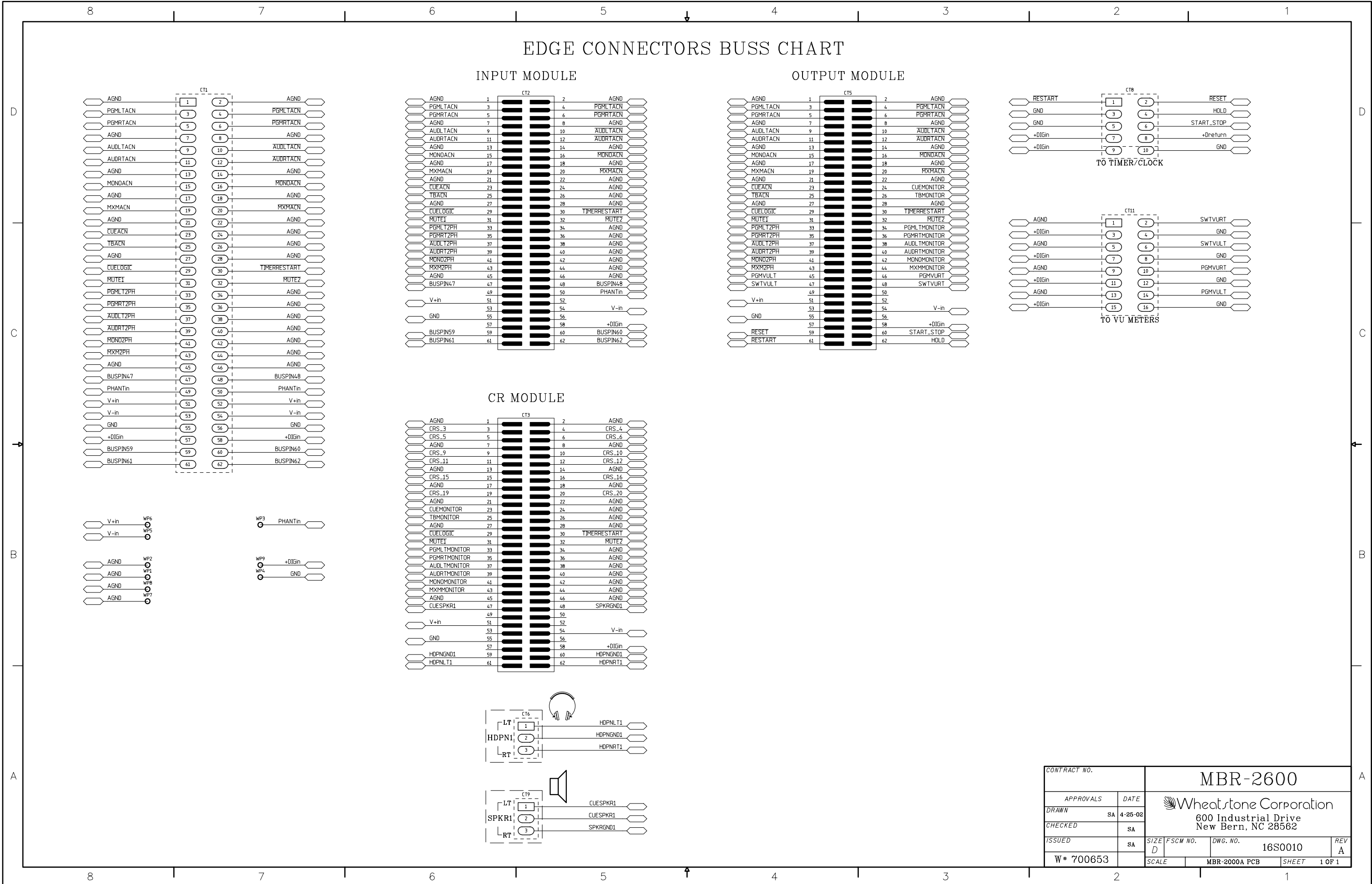
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APPROVALS		DATE		 Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
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ISSUED					
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		SCALE	MBE-2011 PCB		SHEET 1 OF 2

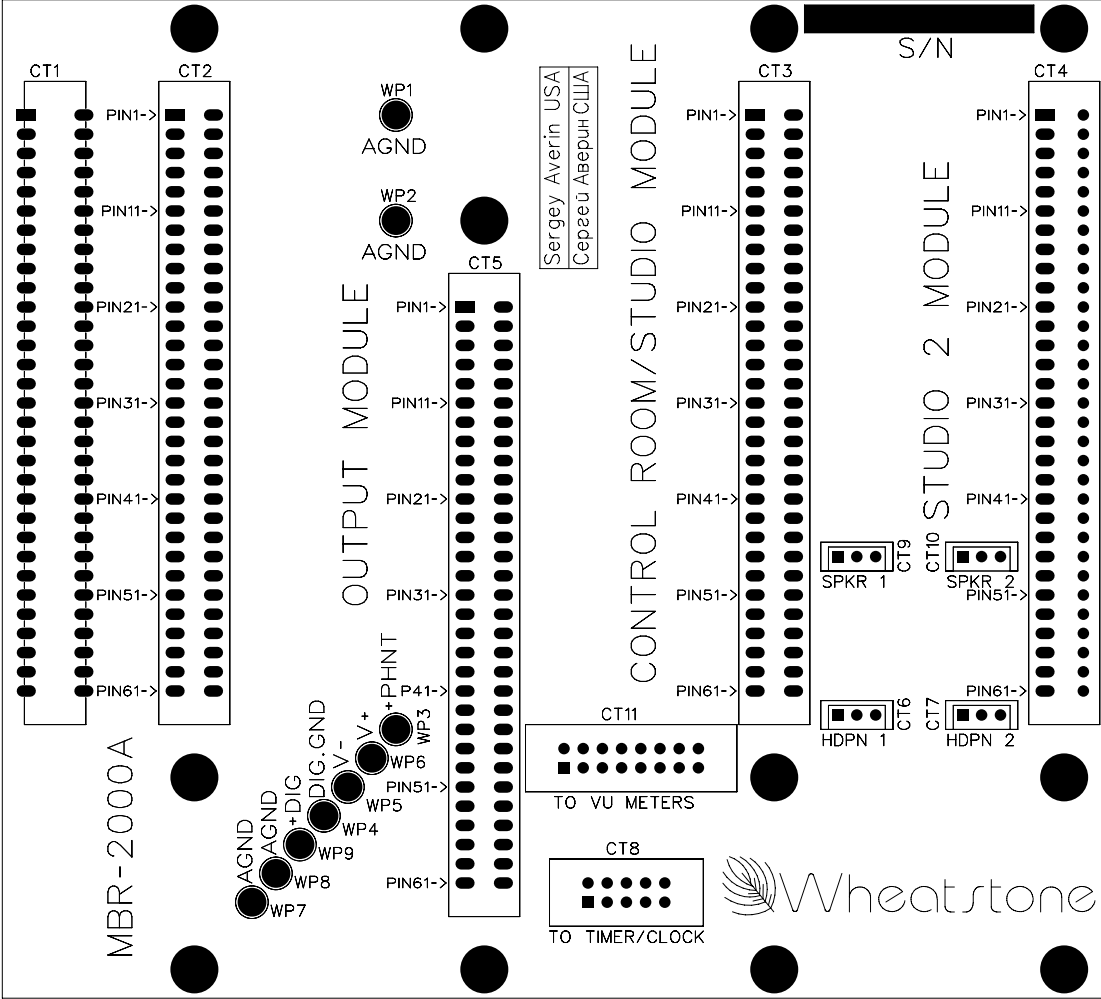
EDGE CONNECTORS BUSS CHART

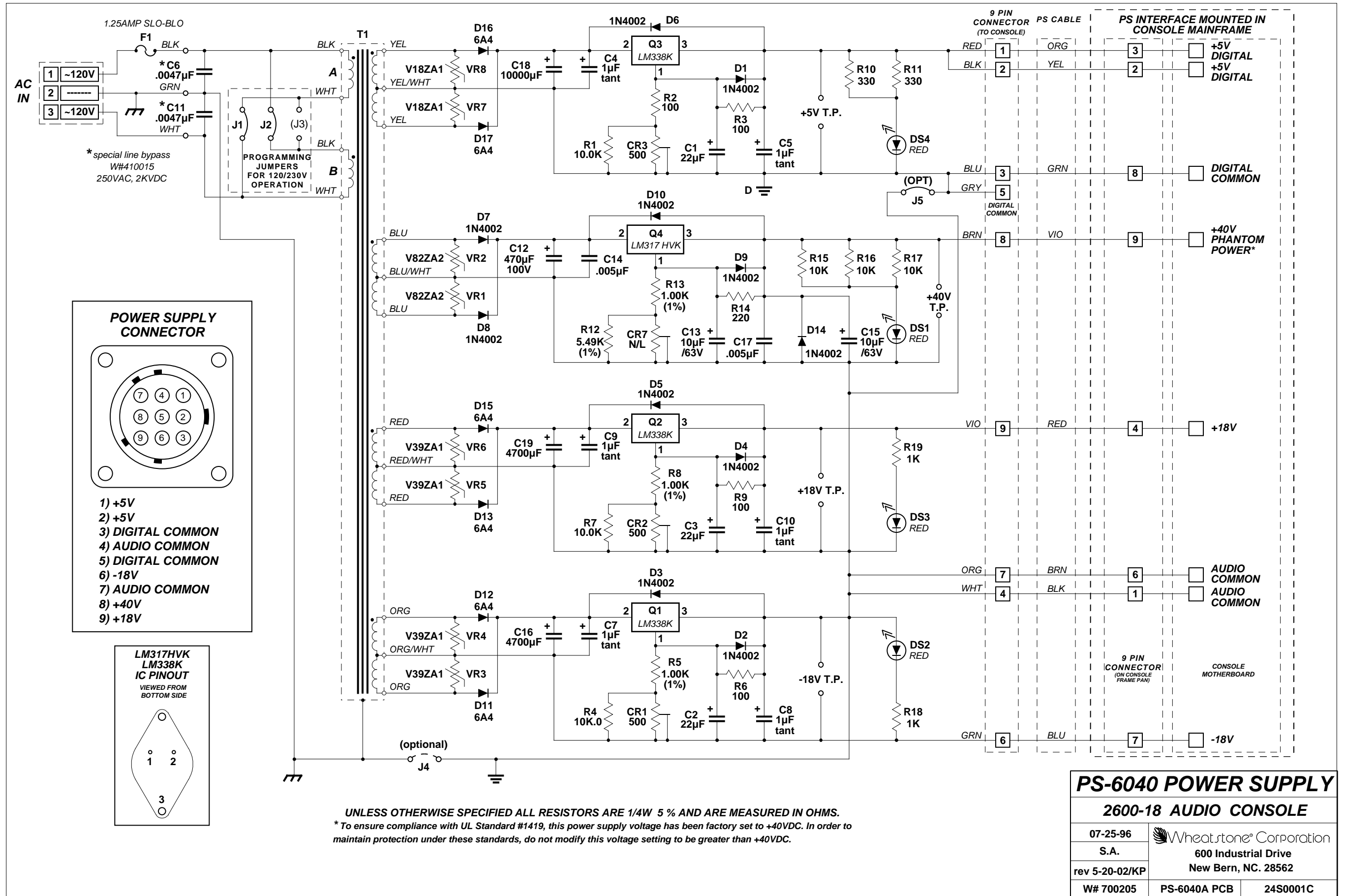


CONTRACT NO.		MBE-2011			
APPROVALS		DATE		 Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN		SA 11-14-00			
CHECKED					
ISSUED					
W* 700652		SIZE	FSCM NO.	DWG. NO.	REV
		D		16S0009	
		SCALE	MBE-2011 PCB		SHEET 2 OF 2









PS-6040 Power Supply Schematic Drawing

