2600 Audio Console

TECHNICAL MANUAL

AUDITRONICS

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2600 Audio Console Technical Manual - 1st Edition

AUDITRONICS
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2600 Technical Manual

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Installation

Installing the Console

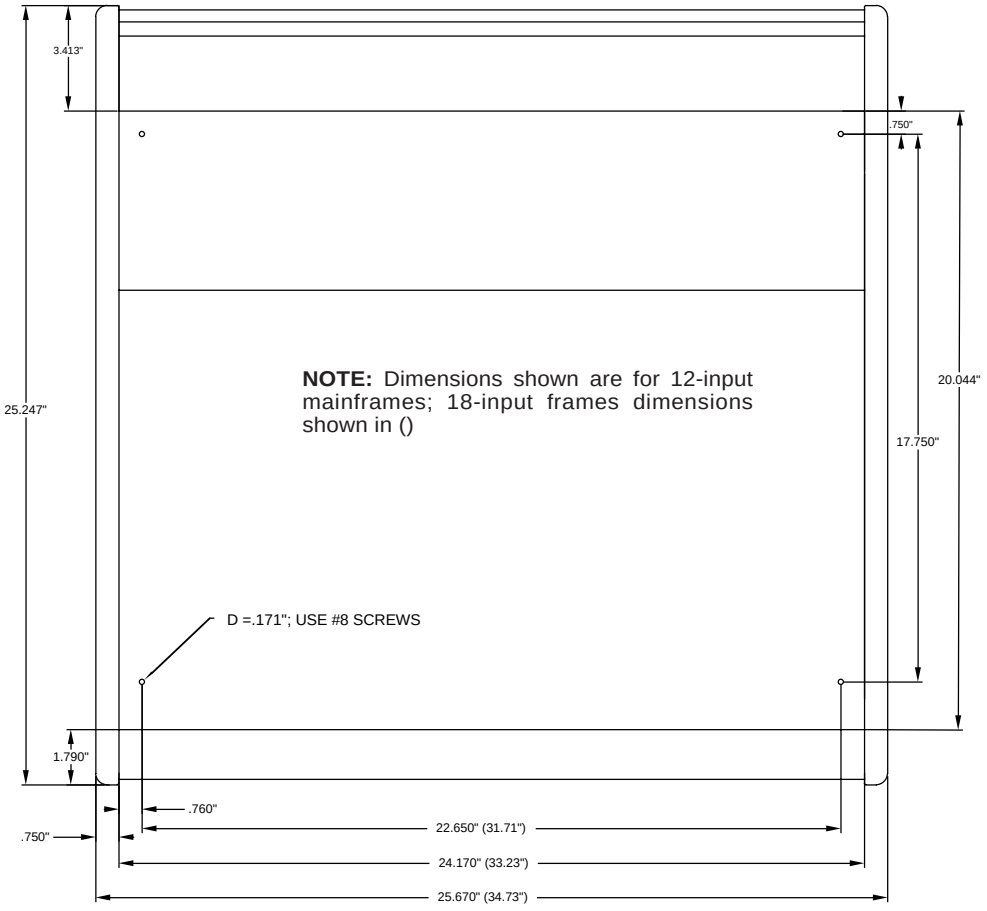
The 2600 console is shipped in a single carton, held in place with foam blocks.

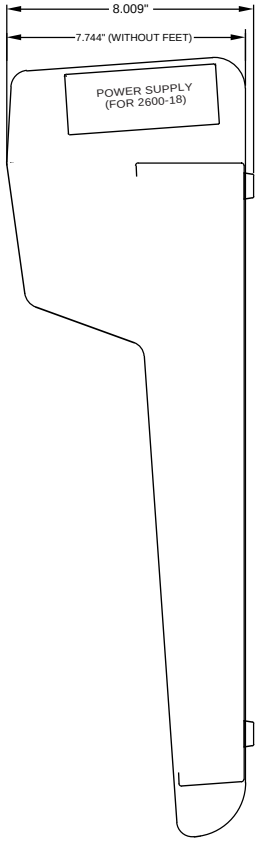
The 2600 audio console is designed for countertop mounting. Console placement should avoid proximity to any electromagnetic fields, such as large power transformers, motors, and fluorescent lighting fixtures. If you will be securing the console to the counter top, you may want to pre-drill the mounting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

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





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).

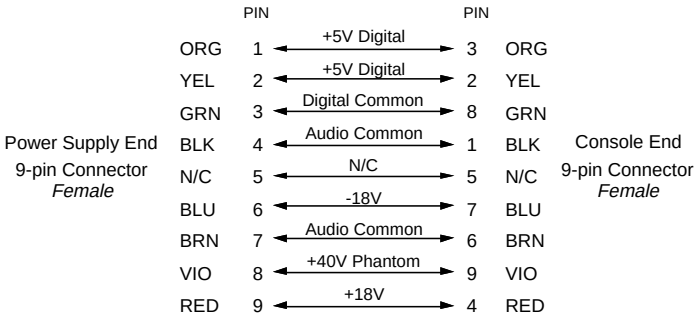
2600-18 Console

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



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).*

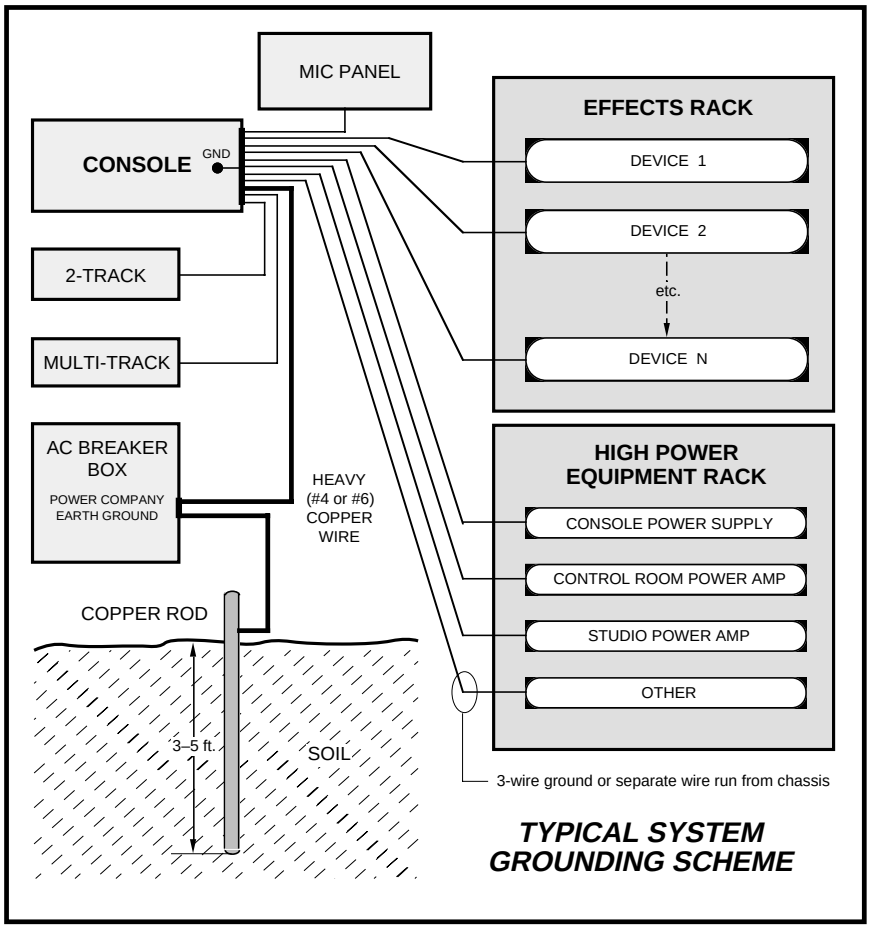
Once it is plugged in, the console will power up; the VU meters will light up, and all modules OFF switches will activate.

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).

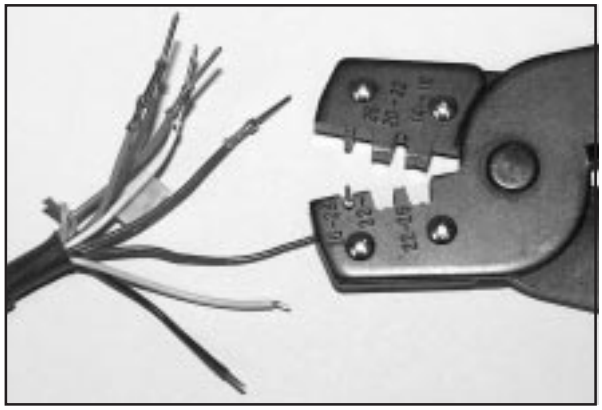
Unbalanced Connections (analog audio)

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.

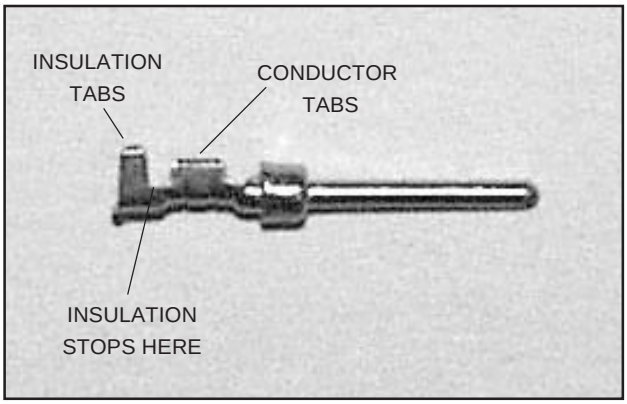
ANALOG OUTPUTS — 2600 consoles use a balanced output circuit which behaves exactly like the secondary of a high-quality transformer, with no center tap—this output is both balanced and floating. Either the HIGH or LOW side of the output should be strapped to ground, with the output taken from the other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

HAND CRIMP TOOL WIRING INSTRUCTIONS

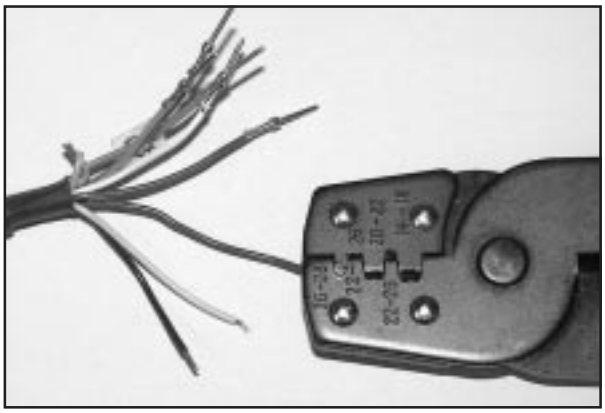
The supplied hand crimping tool (W/S#850068) is used for all I/O wiring connections to and from the console. It is to be used with the supplied pin (figure 1) intended for 24"-28" gauge wire.



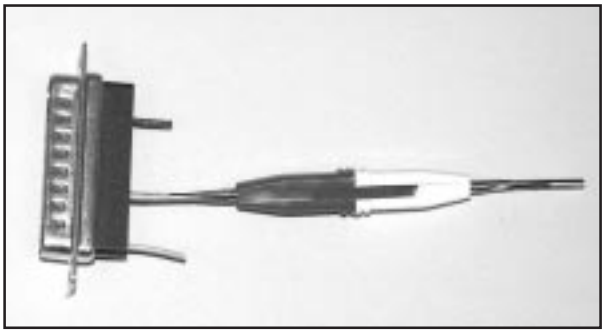
(2) The terminal conductor tabs with stripped wire are placed in anvil 26-28.



(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).

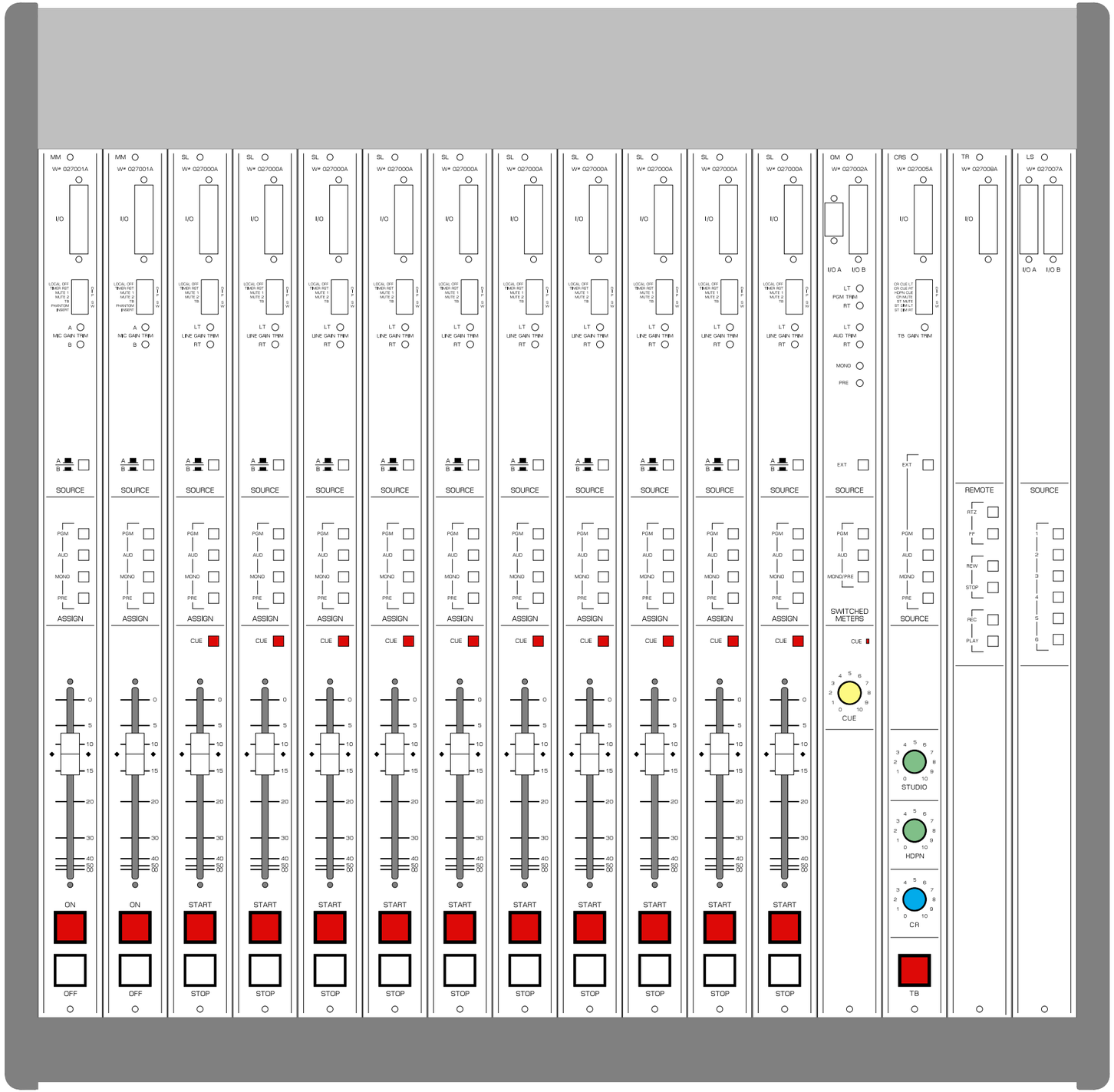
3) CRIMP by squeezing handles until jaws are fully closed to secure wire in the terminal (figure 3).

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 a 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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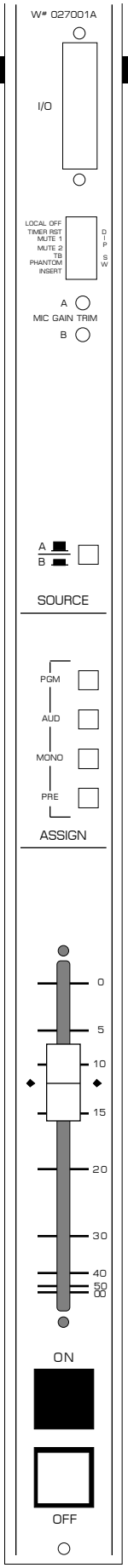


Mono Mic Input Module (MM-2600)

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 @150Ω 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 the DB-25 connector). Note that 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.

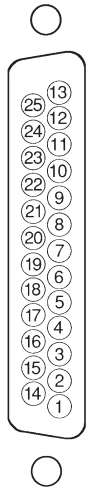
Talkback

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 2-6 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.



Typical DB-25 connector

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

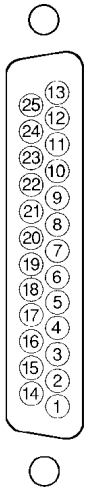
Pin 8 – Insert In SH
Pin 7 – Insert In HI
Pin 20 – N/C

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

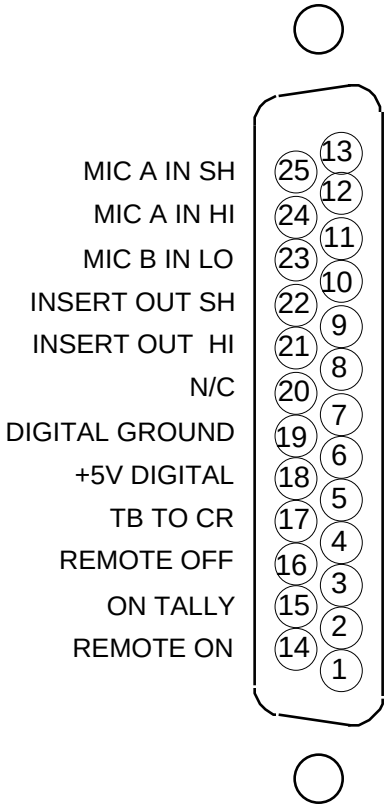
Provides a remote indication that the module's B source has been selected. This control function provides a continuous closure (open collector) between Pin 6 (Tally B) and Digital Ground (Pin 19) whenever the B source is selected.

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

I/O PORTS ANALOG AND LOGIC



Stereo Line Input (SL-2600)

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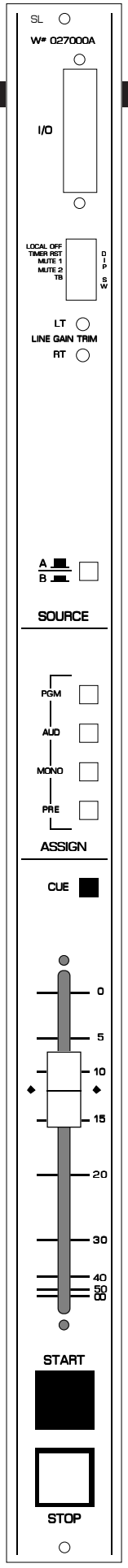


Stereo Line Input (SL-2600)

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 the DB-25 connector). Note that 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

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

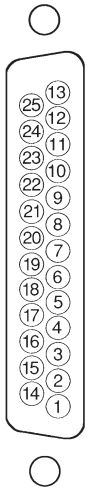
These include A and B source inputs; level is +4dBu balanced.

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



Typical DB-25 connector

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

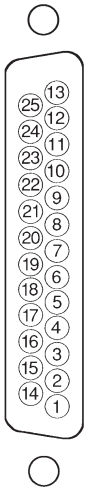
To Turn the Module ON & OFF from a Remote Location

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 (Pin19) 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.)



Typical DB-25 connector

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 (Ready) and pin 19 (Ground). The module's Ready port is looking for a 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.)

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

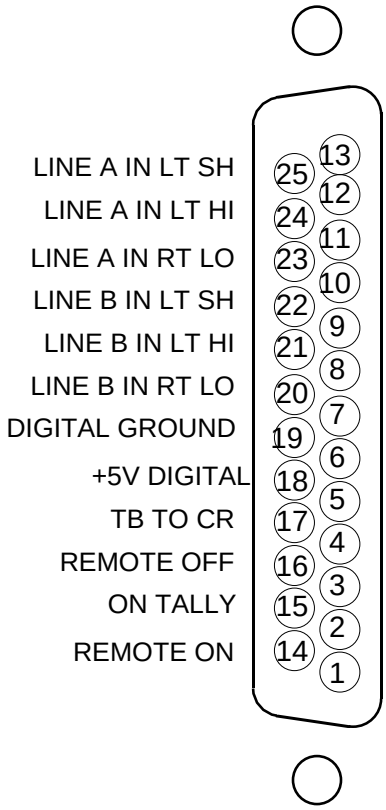
Provides a remote indication that the module's B source has been selected. This control function provides a continuous closure (open collector) between Pin 6 (Tally B) and Digital Ground (Pins 19) whenever the B source is selected.

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

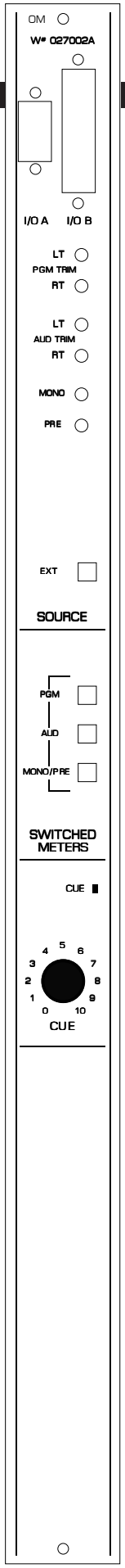
I/O PORTS ANALOG AND LOGIC



Output Module

(OM-2600)

Chapter Contents



Output Module

(OM-2600)

Module Overview

The master output module handles the console's Program, Audition, and Mono/Pre outputs. All outputs are calibrated with recessed front panel multi-turn trimpots.

Each 2600 console has two pairs of left-right VU meters: PGM and SWT (switched) located on the console's meterbridge. The switched meter follows the SELECT switching, allowing the console operator to meter PGM, AUD, MONO and PRE, and an external stereo line signal (analog, +4dBu balanced), which may be brought into the module on its DB-25 connector.

The OM-2600 module houses the master Cue LED. Whenever Cue is activated anywhere on the console this LED will illuminate and the CUE signal will automatically appear on the switched VU meter pair. When cue is de-activated, the switched meter pair goes back to its previously selected signal.

The CUE master level control sets the level of the console's cue signal.

Whenever CUE is activated elsewhere on the console (stereo line inputs or for studio talkback) its signal will appear at the console's built-in cue speaker mounted in the meterbridge. Depending on how the CRS-2600 module has been programmed, cue can also interrupt the control room monitor speakers. The way Cue interrupts the control room/studio outputs is determined by PCB-mounted dipswitch. See "Cue Interrupt" on 5-3 page.

The OM-2600 module also generates the console's monitor signals, which feed the Control Room/Studio module.

All user wiring to and from the OM-2600 module takes place at DB-25 and DB-9 multi-pin connectors mounted on top of the module and located underneath the hinged meterbridge. All analog audio is +4dBu balanced. Pinout drawings on pages 4-5 show all wiring connections at a glance.

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

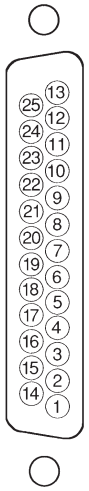
Pin 8 – AUD Rt Out SH
Pin 7 – AUD Rt Out HI
Pin 20 – AUD Rt Out LO

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

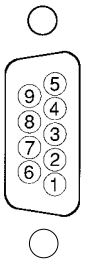


Typical DB-25 connector

DB-9 Connector – Audio

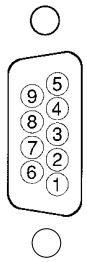
Handles CUE output.

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



Typical DB-9 connector

DB-9 Connector — Control



Typical DB-9 connector

Handles Tally 1 and Tally 2 control connections.

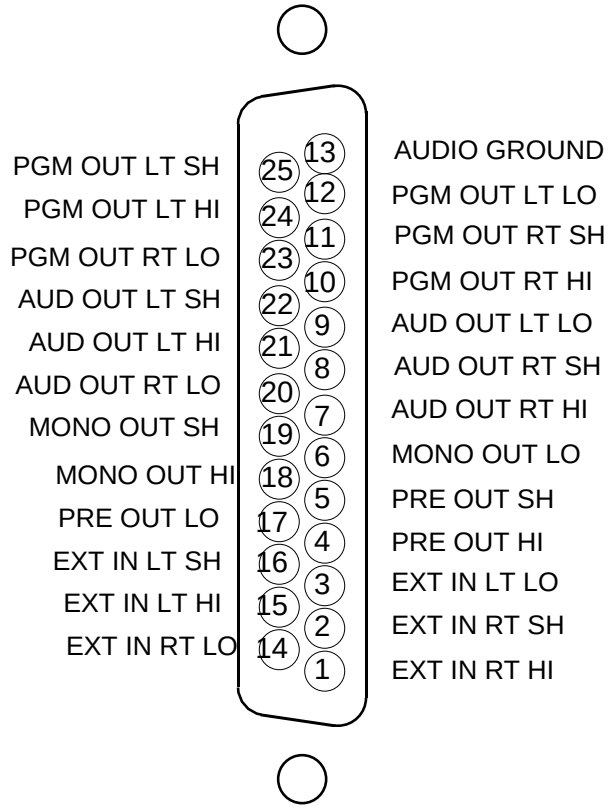
Pin 3 – Tally 1 N.O.
Pin 7 – Tally 1 Com.
Pin 6 – Tally 2 Com
Pin 1 – Tally 2 N.O.
Pins 2 and 8 - Audio Common

These are simple relay closures that activate whenever programmed input modules are turned ON (see pages 2-3 and 3-3). The Tally 1 closure is activated whenever the CR mute is activated, and the Tally 2 closure is activated whenever the studio mute is activated. The ports can be used to control externally powered tally lights that requires a continuous closure to function.

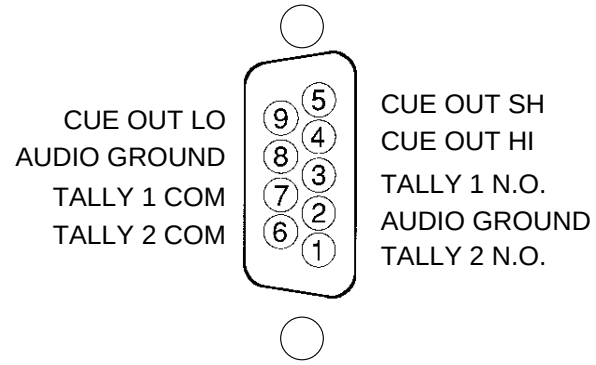
OM-2600 Output Module

DB Connector Pinouts

I/O PORTS ANALOG (DB-25)



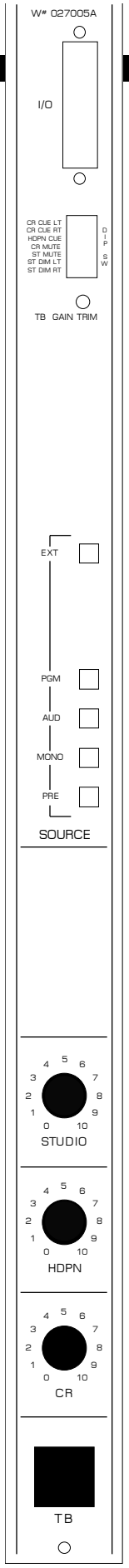
ANALOG OUTPUT PORTS



Control Room/Studio Module

(CRS-2600)

Chapter Contents



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 the DB-25 connectors). Note that 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

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

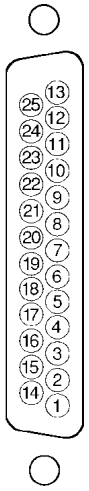
Note the DIM functions also affect the talkback interrupt. Note also if the studio is muted, talkback cannot be heard. However, if the studio is programmed to DIM instead of MUTE, talkback audio could presumably make it from the studio monitor speakers to the open studio mic.

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.



Typical DB-25 connector

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

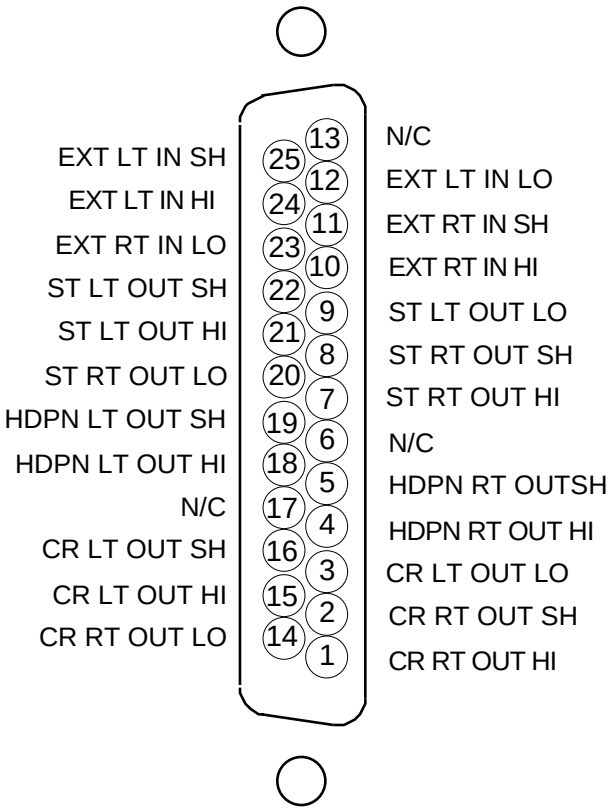
Pin 16 – CR Lt Out SH
Pin 15 – CR Lt Out HI
Pin 3 – CR Lt Out LO

Pin 2 – CR Rt Out SH
Pin 1 – CR Rt Out HI
Pin 14 – CR Rt Out LO

CRS-2600 Control Room/Studio Module

DB Connector Pinouts

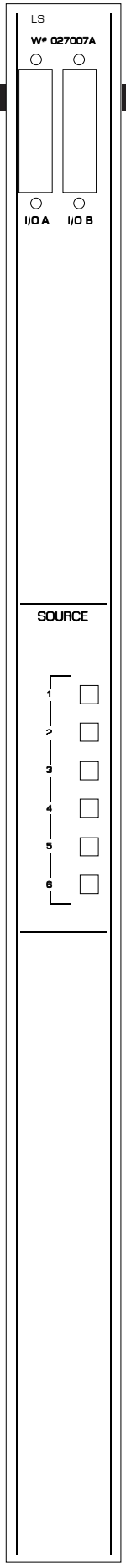
I/O PORTS (DB-25)



Line Preselector Module-Analog

(LS-2600; optional)

Chapter Contents



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

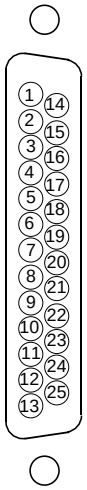
Left DB-25 “A” Connector - Audio Inputs 5, 6

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



Typical DB-25 connector

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

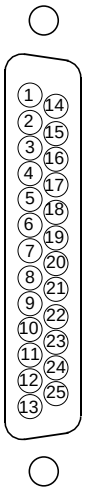
Pin 22 – Line 2 Lt In SH
Pin 21 – Line 2 Lt In HI
Pin 9 – Line 2 Lt In LO

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

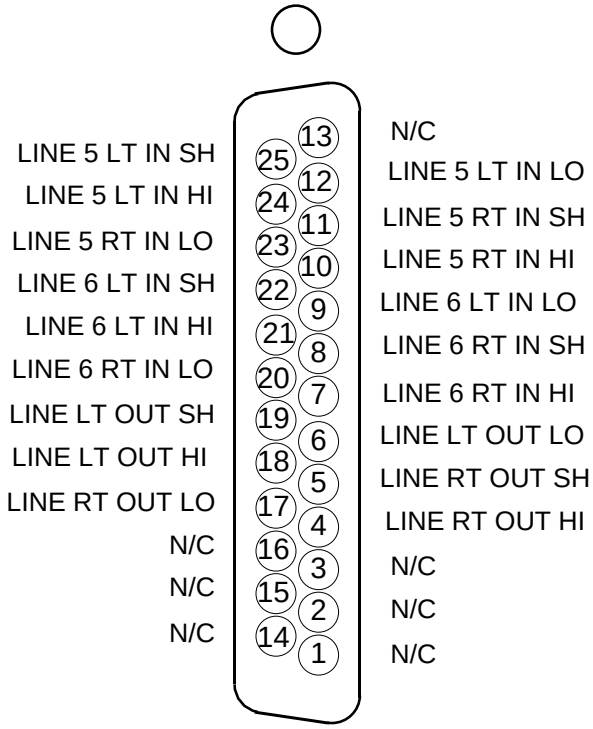
Pin 16 – Line 4 Lt In SH
Pin 15 – Line 4 Lt In HI
Pin 3 – Line 4 Lt In LO
Pin 2 – Line 4 Rt In SH
Pin 1 – Line 4 Rt In HI
Pin 14 – Line 4 Rt In LO



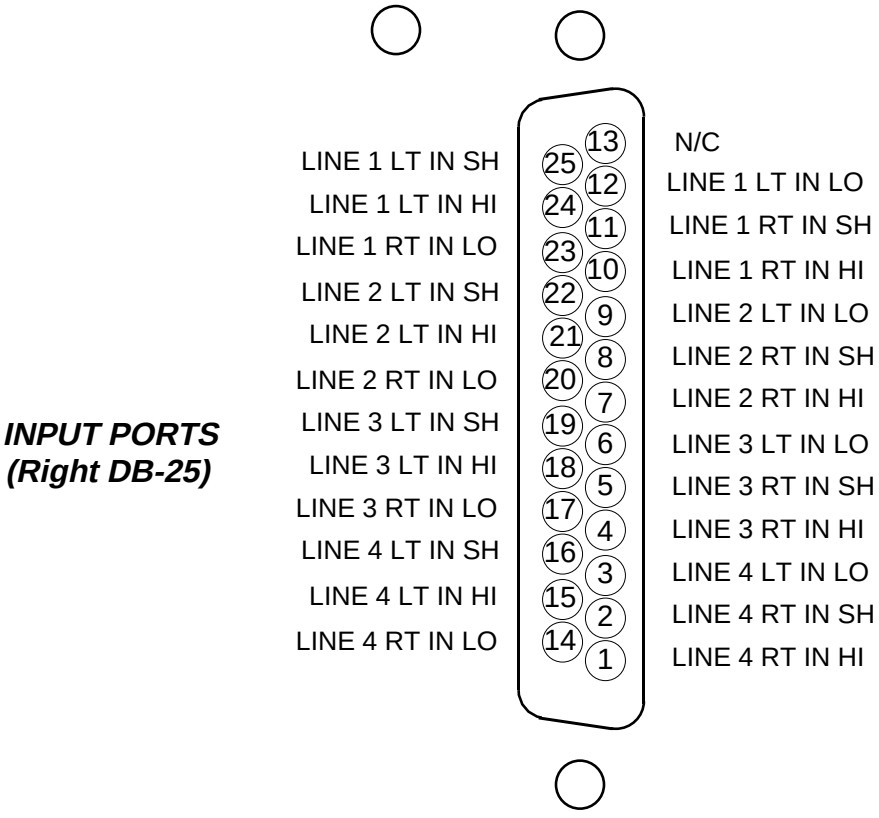
Typical DB-25 connector

LS-2600 Line Selector Module

DB Connector Pinouts



INPUT/OUTPUT
(Left DB-25)

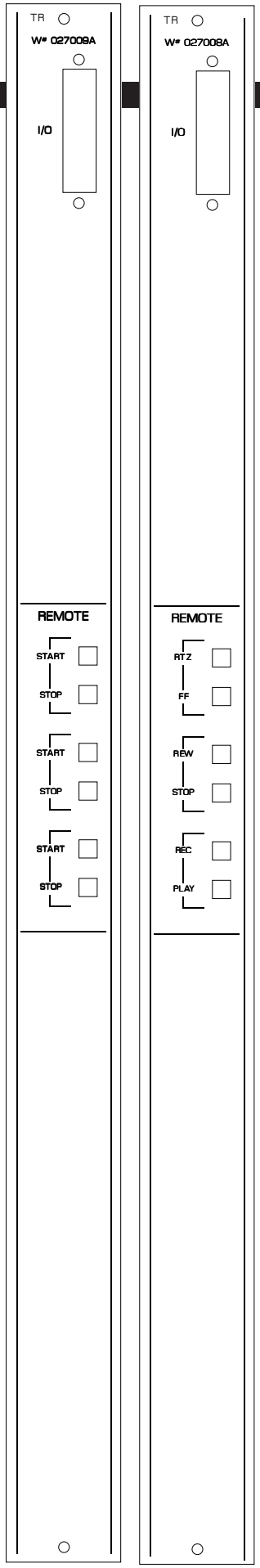


INPUT PORTS
(Right DB-25)

Tape Remote Module

(TR-2600; optional)

Chapter Contents

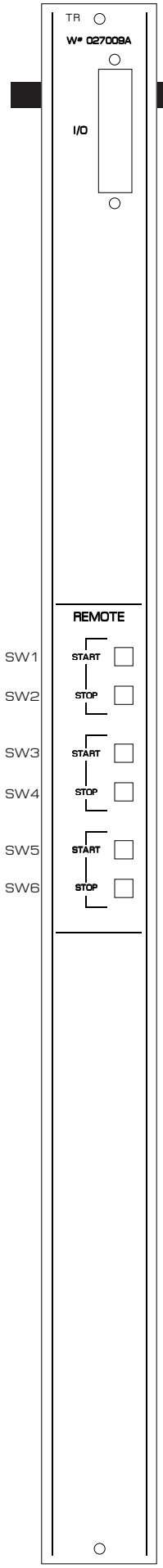


Tape Remote Module

(TR-2600; optional)

Module Overview

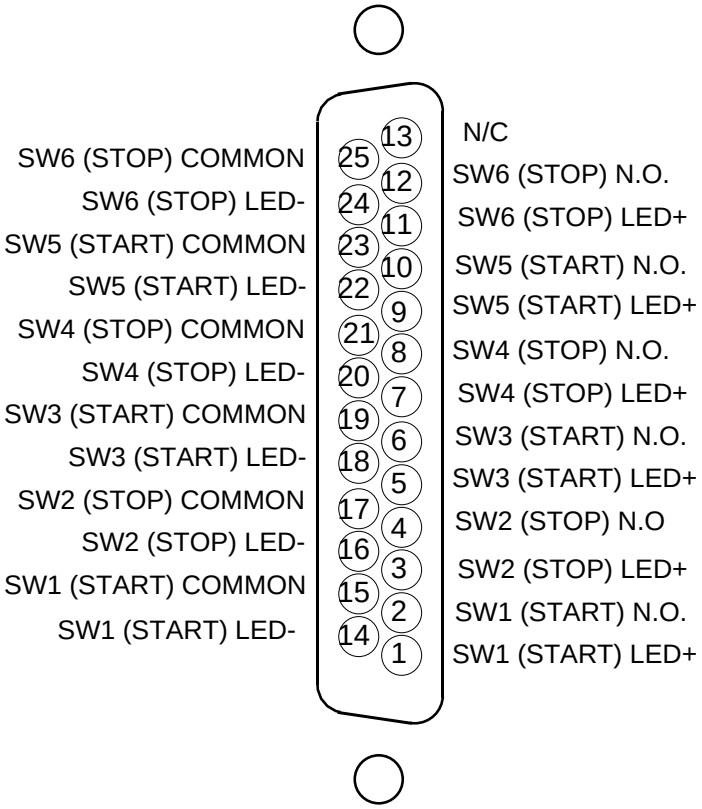
This optional module is available in two versions. The START/STOP version offers three sets of START and STOP buttons to provide start-stop control of three remote reel-to-reel machines. The full function version provides RTZ, FF, REW, STOP, REC, and PLAY buttons for a single machine. LED indicators 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.

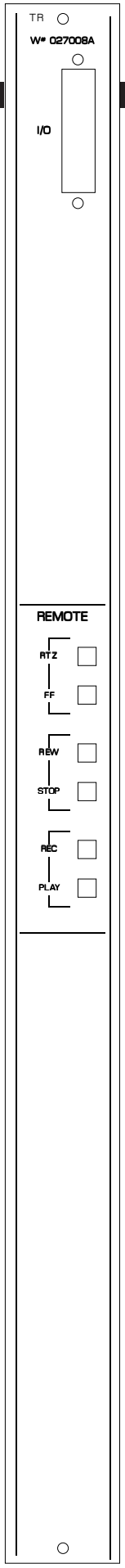


TR-2600/SS Tape Remote Module

DB Connector Pinouts

I/O CONTROL PORTS (DB-25)

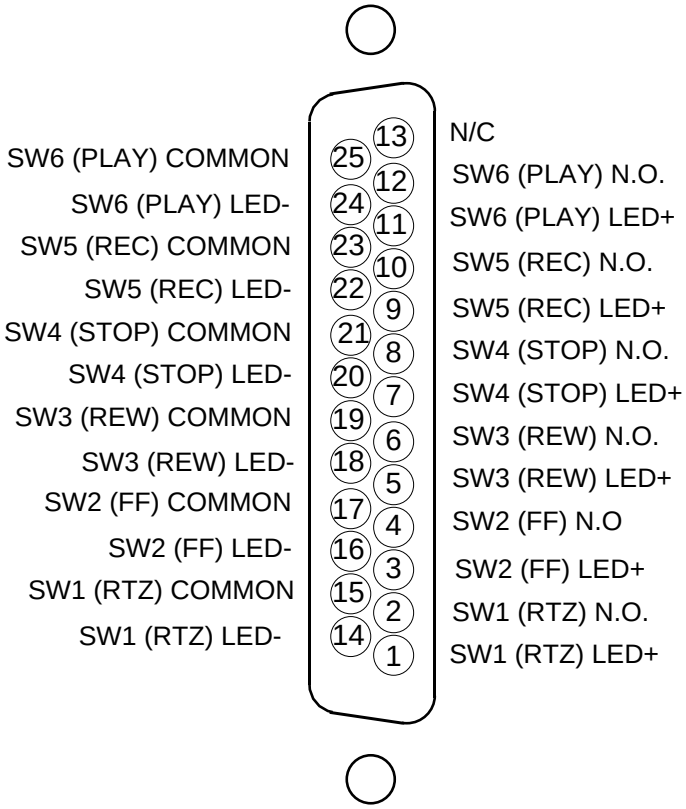




TR-2600/FF Tape Remote Module

DB Connector Pinouts

I/O CONTROL PORTS (DB-25)



Meterbridge

Chapter Contents

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

Chapter Contents

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/ POLYSWITCH .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, 22µF 25V ELECTROLYTIC SMT	11	***405002***
C2, C3, C11, C32, C40, C41	CAPACITOR, 100µF 25V ELECTROLYTIC SMT	6	***405003***
C5-C7, C9, C10, C14-C16, C18, C19, C21, C29	CAPACITOR, 10pF 100V CERAMIC SMT	12	***415001***
C44	CAPACITOR, .01µF 50V CERAMIC SMT	1	***415006***
C4, C8, C13, C17, C20, C23, C30, C34-C36, C38, C43, C46, C47	CAPACITOR, .1µF 50V CERAMIC SMT	14	***415007***
C45	CAPACITOR, .22µF 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/ POLYSWITCH .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 .O98" 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	10KΩ 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 STANDOFFJACK HARDWARE 3/16" LONG	2	***820047***
	PEM FASTENERS	4	***821009***
F1-F3	FUSE/ POLYSWITCH .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, R188, R189	2.00 KOHM 1% .25W MC1206 RESISTOR	4	***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	20.0 KOHM 1% .25W MC1206 RESISTOR	2	***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	***220027***
CT13	60 PIN BOARD-TO-BOARD MALE CONNECTOR	1	***220074***
PCB_MBE2011	PRINTED CIRCUIT BOARD	1	***700652***

MBR-2600 MOTHER BOARD (RIGHT) PARTS LIST

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

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, 22µF 25V ELECTROLYTIC SMT	4	***405002***
C13, C14	CAPACITOR, 330µF 25V ELECTROLYTIC SMT	2	***405004***
C11, C17, C19	CAPACITOR, 1µF 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, .01µF 50V CERAMIC SMT	6	***415006***
C6-C8, C15, C18, C20	CAPACITOR, .1µF 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, .0047µUF 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, .0047µUF 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	500Ω 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

Chapter Contents

Model 2600 System Flow Diagram

LOGIC

ACNS

MONITOR

LINE INPUT SL-2600

A/B LOGIC FOLLOW
TB
COUGH
READY
START
STOP
MACHINE COMMON
ON TALLY
REMOTE OFF
REMOTE ON

LOGIC

DIP SW

TIMER RESTART
MUTE 2
MUTE 1
TB BUS
LOCAL OFF
CUE LOGIC

ON | OFF | CUE

LINE IN A / B (L, R)

A/B SEL FET SW

TRIM L / TRIM R

FADER

ON FET SW

CUE

PGM | AUD | MONO | PRE

MIC INPUT MM-2600

A/B LOGIC FOLLOW
TB
COUGH
READY
START
STOP
MACHINE COMMON
ON TALLY
REMOTE OFF
REMOTE ON

LOGIC

DIP SW

CUE LOGIC
TIMER RESTART
MUTE 2
MUTE 1
TB BUS
LOCAL OFF

ON | OFF | CUE

MIC IN A / B (H, L)

A/B SEL SW

TRIM A / TRIM B

FADER

ON FET SW

PGM | AUD | MONO | PRE

OUT
INSERT
IN
INSERT BYPASS

TIMER

AUTO | HOLD | RESET | START

TAPE REMOTE TR/FF-2600

Optional

RTZ | FF | REW | STOP | REC | PLAY

OUTPUTS OM-2600

Mute
Pwr Amp
SPKR
CUE LOGIC

TB
CUE OUT
PGM OUT
AUD OUT
MONO OUT
PRE OUT

TRIM

CONTROL ROOM/ STUDIO CRS-2600

TALLY 2 RELAY
TALLY 1 RELAY
STUDIO MUTE
CR MUTE

Cue To HDPN
FET
LEVEL
HDPN
HDPN JACK

Cue To CR
FET
CR

PGM
AUD
MONO
PRE
EXT

TB TRIM
TB FET SW
LEVEL
MUTE FET SW
DIM DIPSW
MUTE
STUDIO

VU

TRIM
VU
PGM
SWT

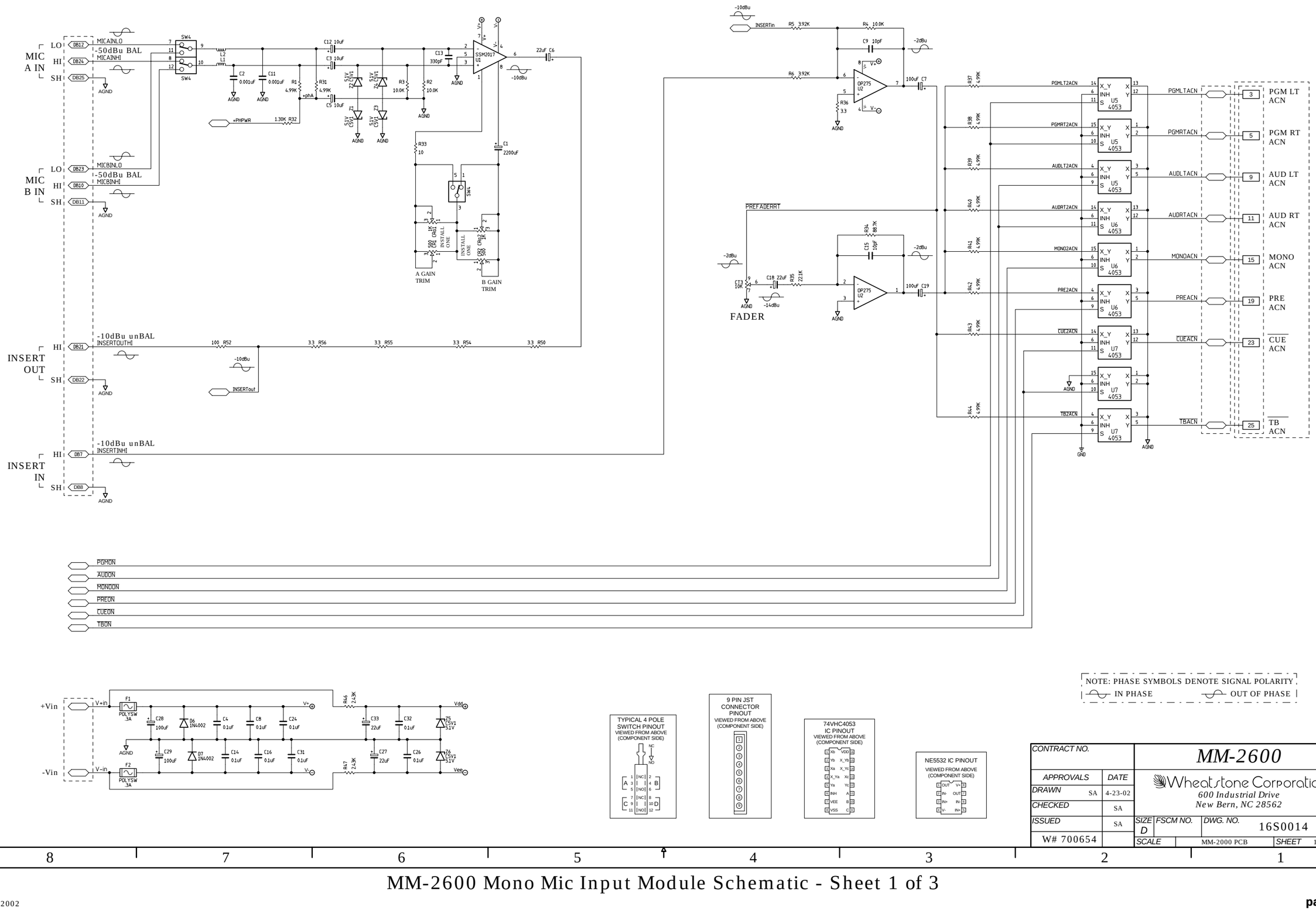
CUE
PGM
AUD
MONO
PRE
EXT

LINE SELECT LS-2600

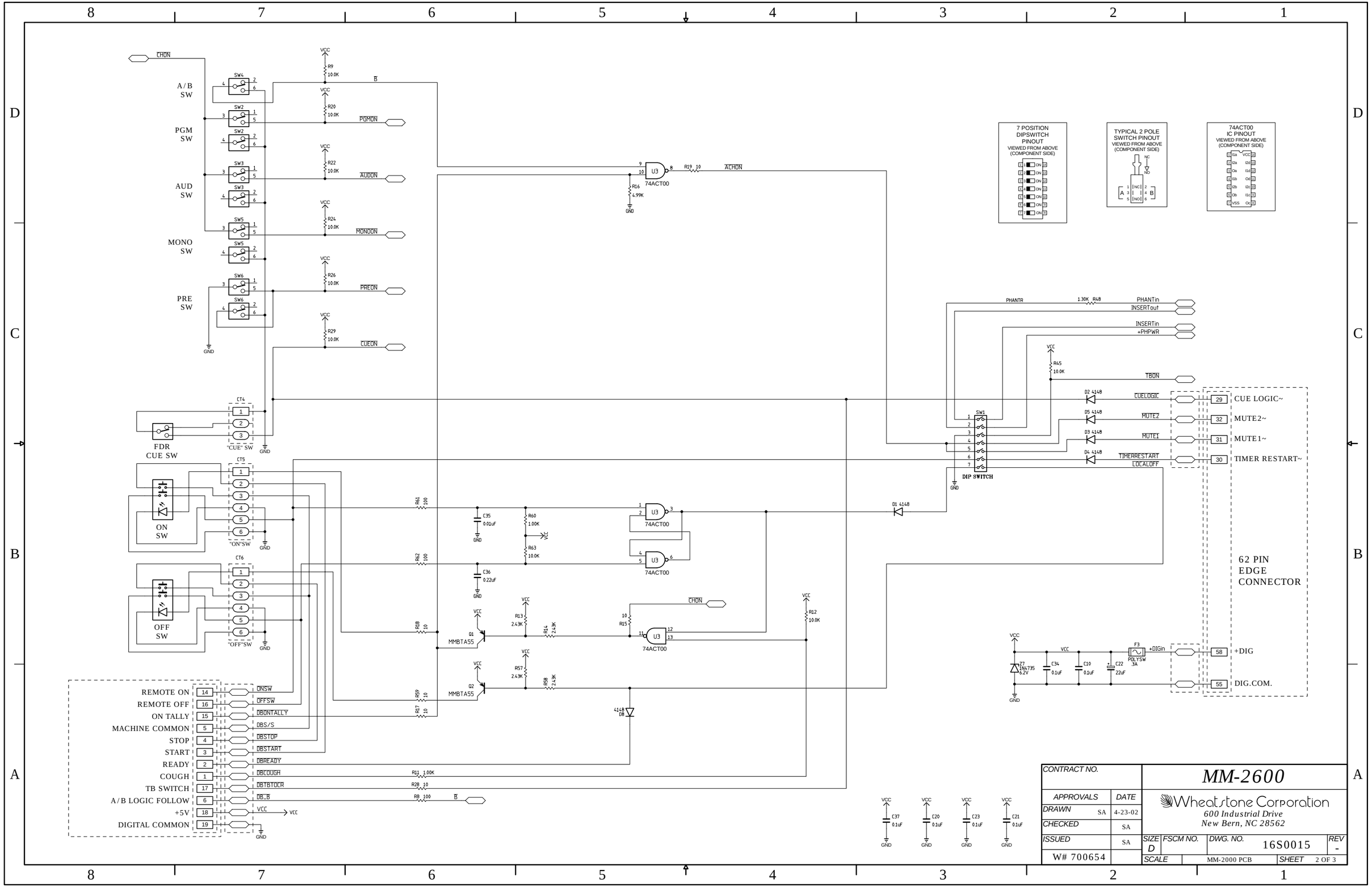
LINE 1
LINE 2
LINE 3
LINE 4
LINE 5
LINE 6

SOURCE SELECT

OUT



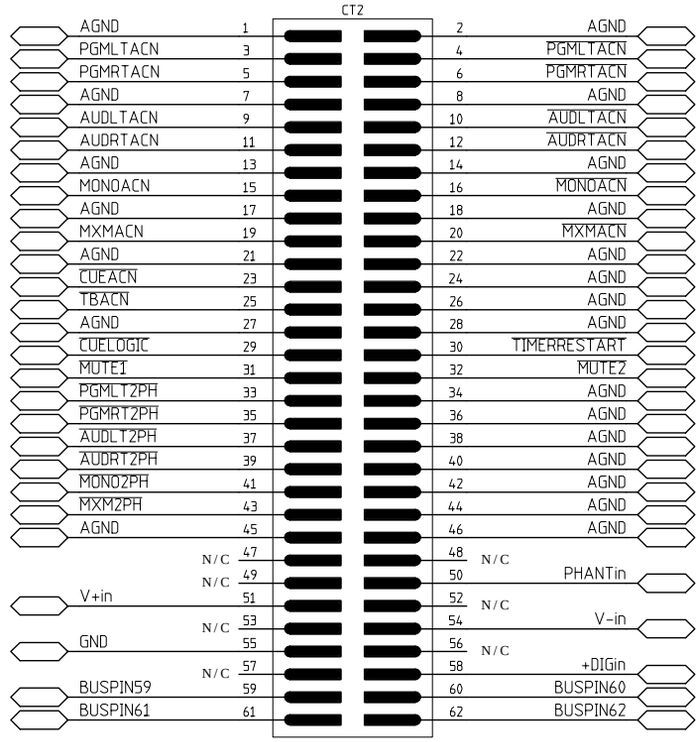
MM-2600 Mono Mic Input Module Schematic - Sheet 1 of 3



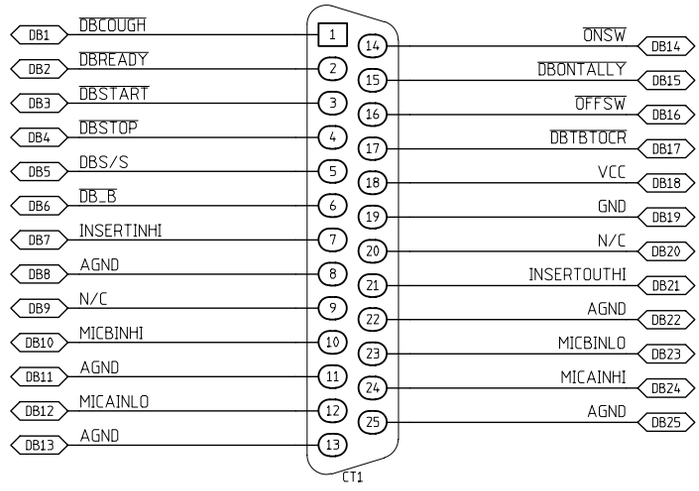
CONTRACT NO.		*MM-2600*	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-23-02		
CHECKED	SA		
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0015 / REV -	
W# 700654		SCALE / MM-2000 PCB / SHEET 2 OF 3	

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

EDGE CONNECTOR BUSS CHART

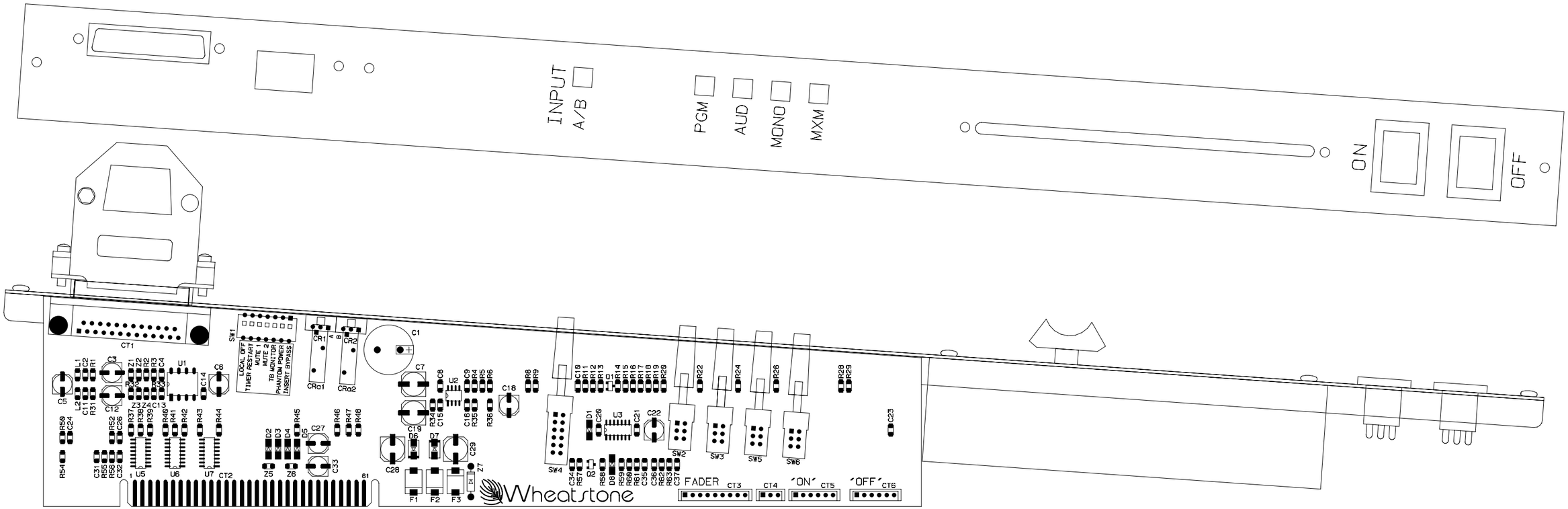


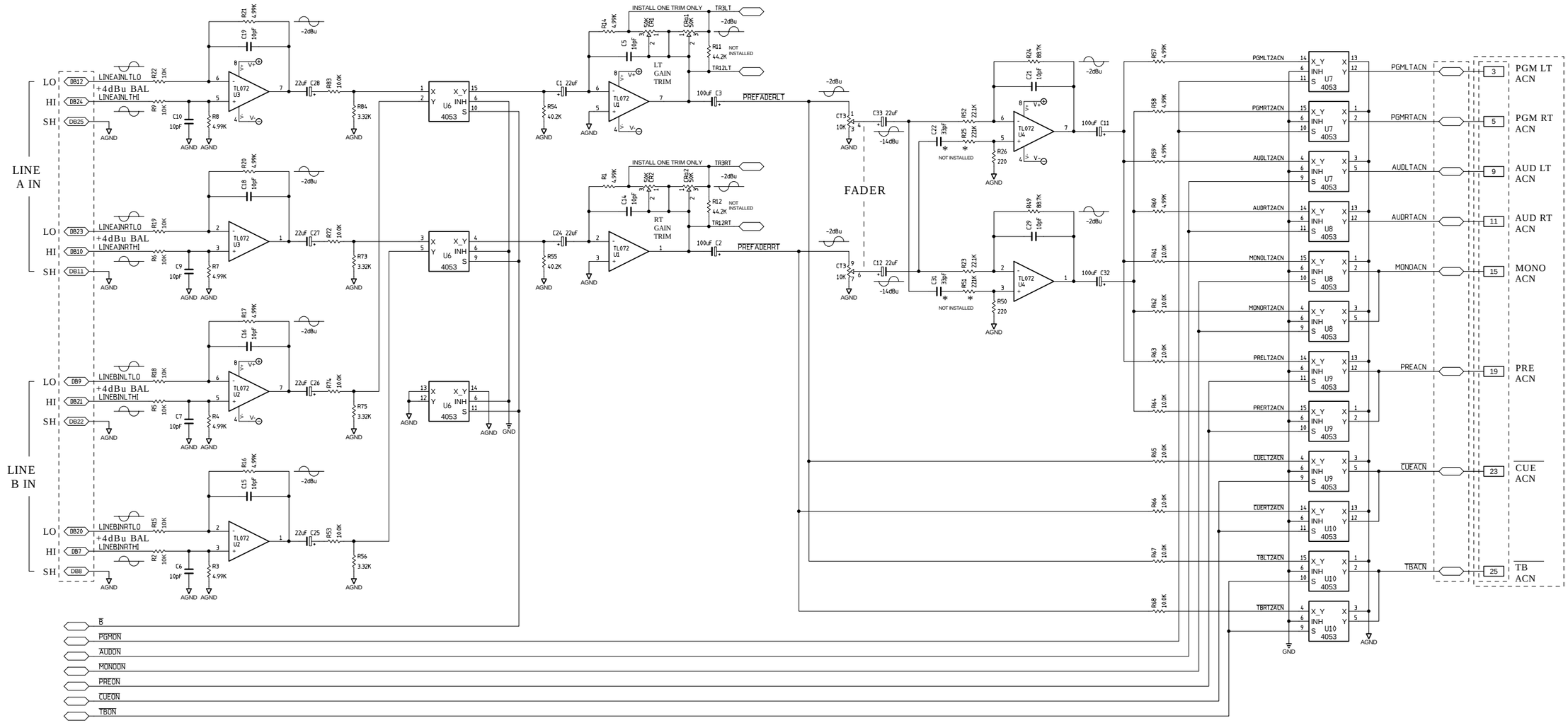
DB-25 CONNECTOR



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

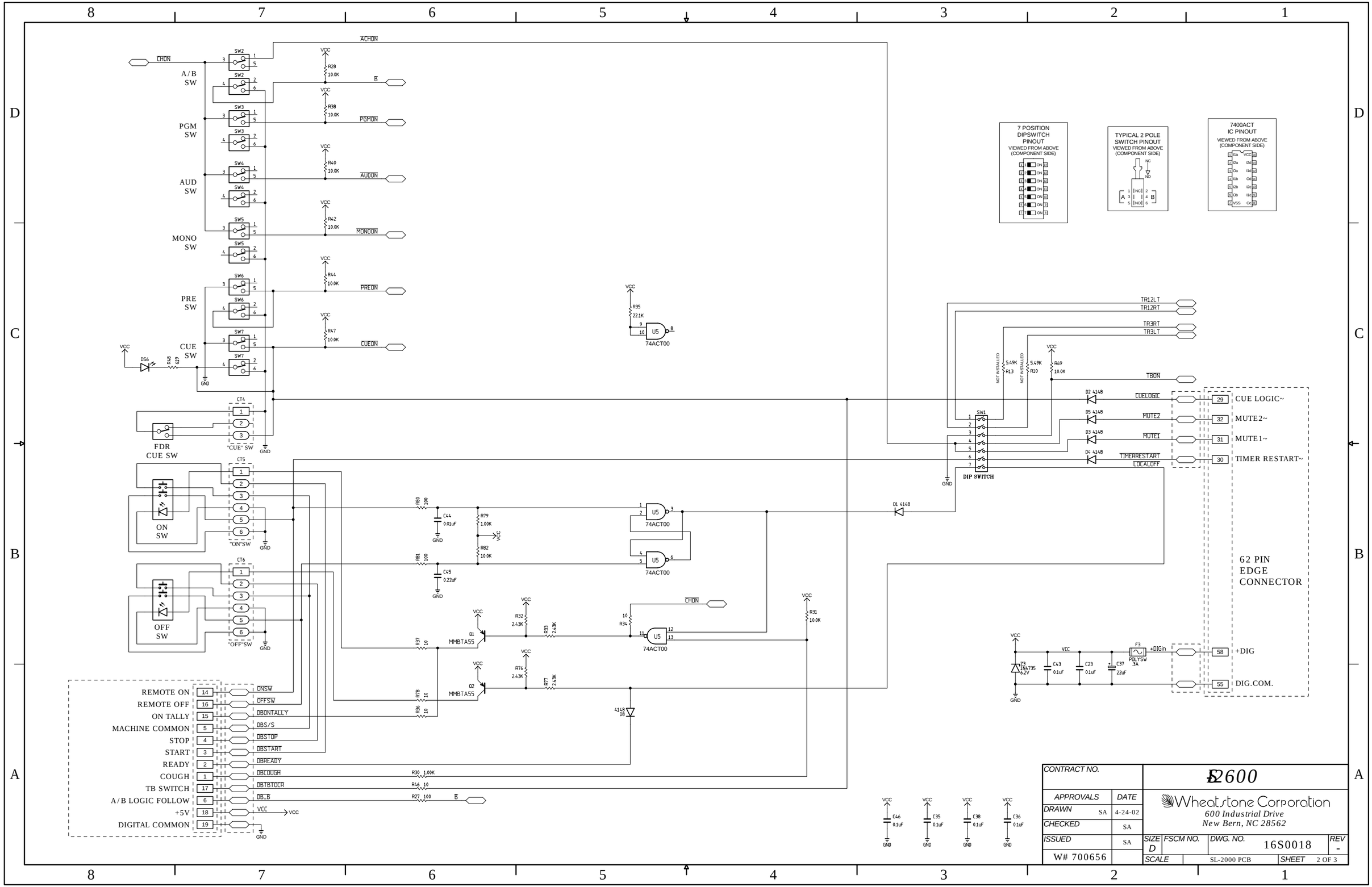
MM-2600 Mono Mic Module Schematic - Sheet 3 of 3


INPUT
A/B
PGM
AUD
MONO
MXM
ON
OFF
SW1
LOCAL OFF
TIMER RESTART
MUTE 1
MUTE 2
TB MONITOR
PHANTOM POWER
INSERT BYPASS
CR1
CR2
CRa1
CRa2
C1
CT1
U1
U2
U3
SW2
SW3
SW4
SW5
SW6
CT2
CT3
CT4
CT5
CT6
FADER
´ON´
´OFF´
F1
F2
F3
Wheatstone



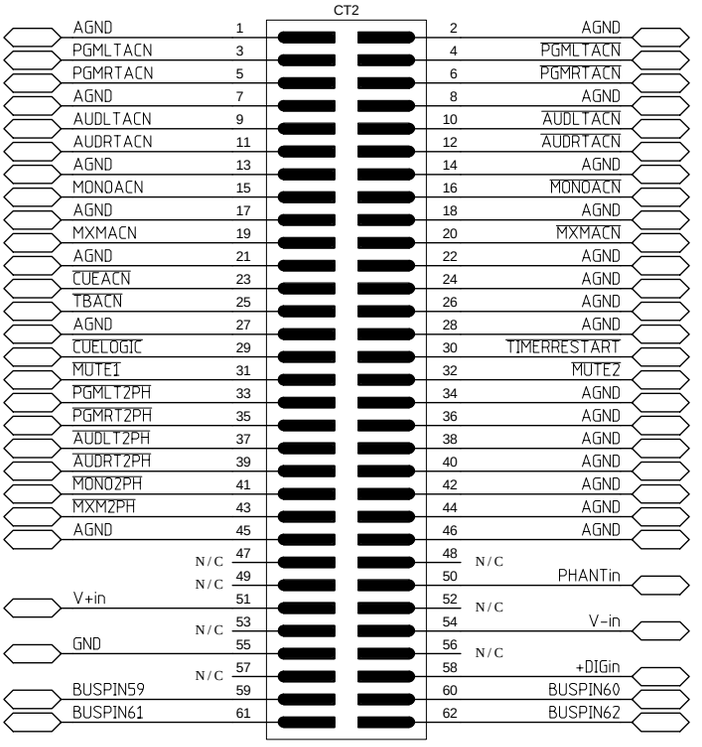
CONTRACT NO.		SL-2600	
APPROVALS	DATE	Wheatstone Corporation	
DRAWN SA	4-24-02	600 Industrial Drive	
CHECKED	SA	New Bern, NC 28562	
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0018 / REV -	
W# 700656		SCALE SL-2000 PCB / SHEET 1 OF 3	

SL-2600 Stereo Line Input Module Schematic - Sheet 1 of 3

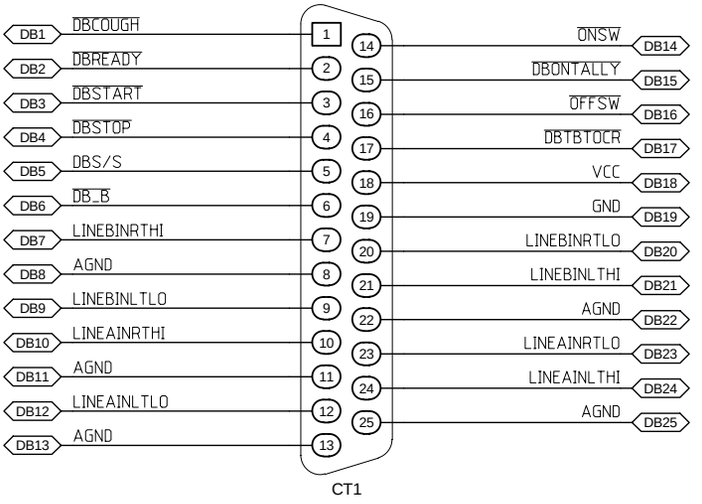


SL-2600 Stereo Line Input Module Schematic - Sheet 2 of 3

EDGE CONNECTOR BUSS CHART



DB-25 CONNECTOR



CONTRACT NO.		SL2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-24-02		
CHECKED	SA		
ISSUED	SA	SIZE B / FSCM NO. / DWG. NO. 16S0019 / REV -	
W# 700656		SCALE SL-2000 PCB	SHEET 3 OF 3

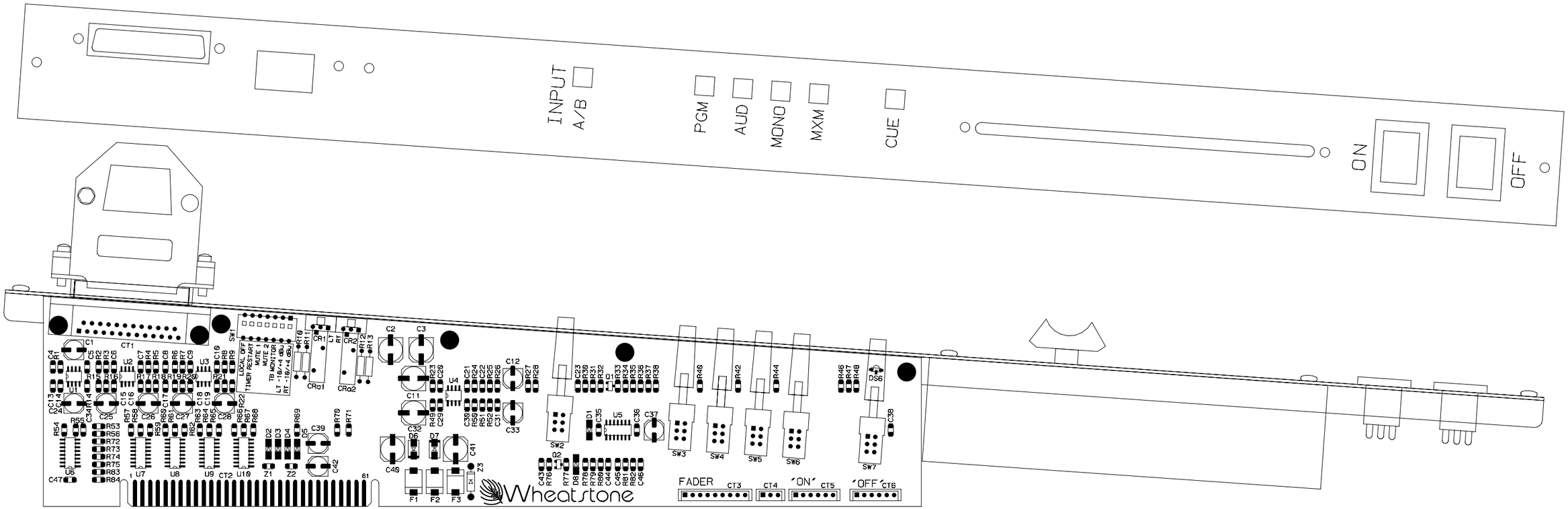
AGND

AGND

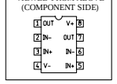
AGND

AGND

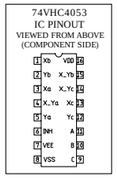
SL-2600 Stereo Input Module Schematic - Sheet 3 of 3


INPUT
A/B
PGM
AUD
MONO
MXM
CUE
ON
OFF
FADER
CT3
CT4
ON
CT5
OFF
CT6
Wheatstone

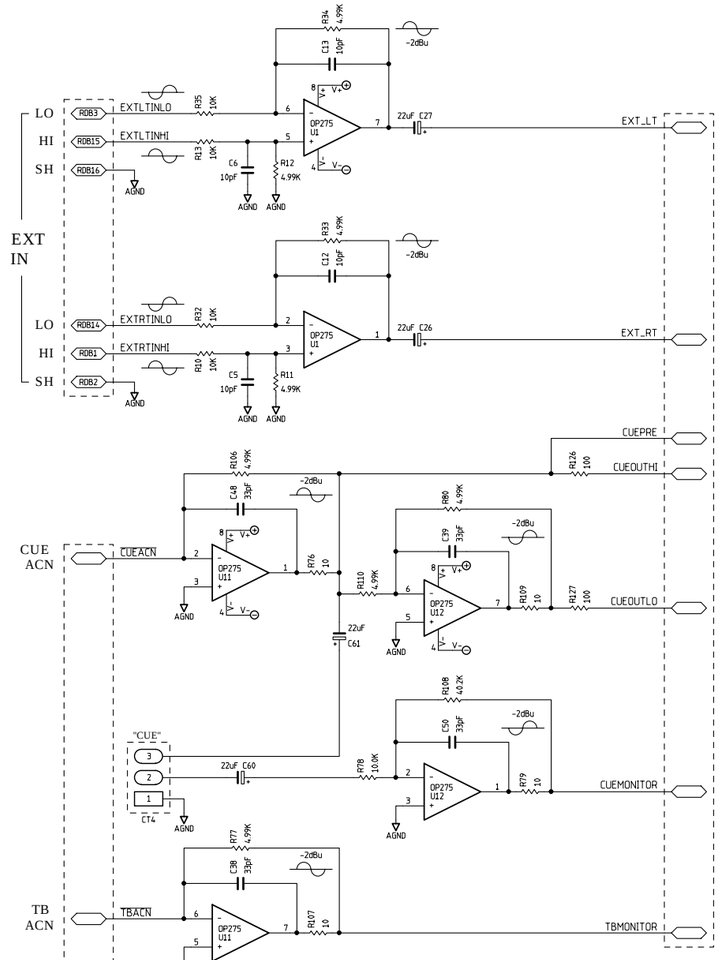
OP-275 IC PINOUT
VIEWED FROM ABOVE
(COMPONENT SIDE)

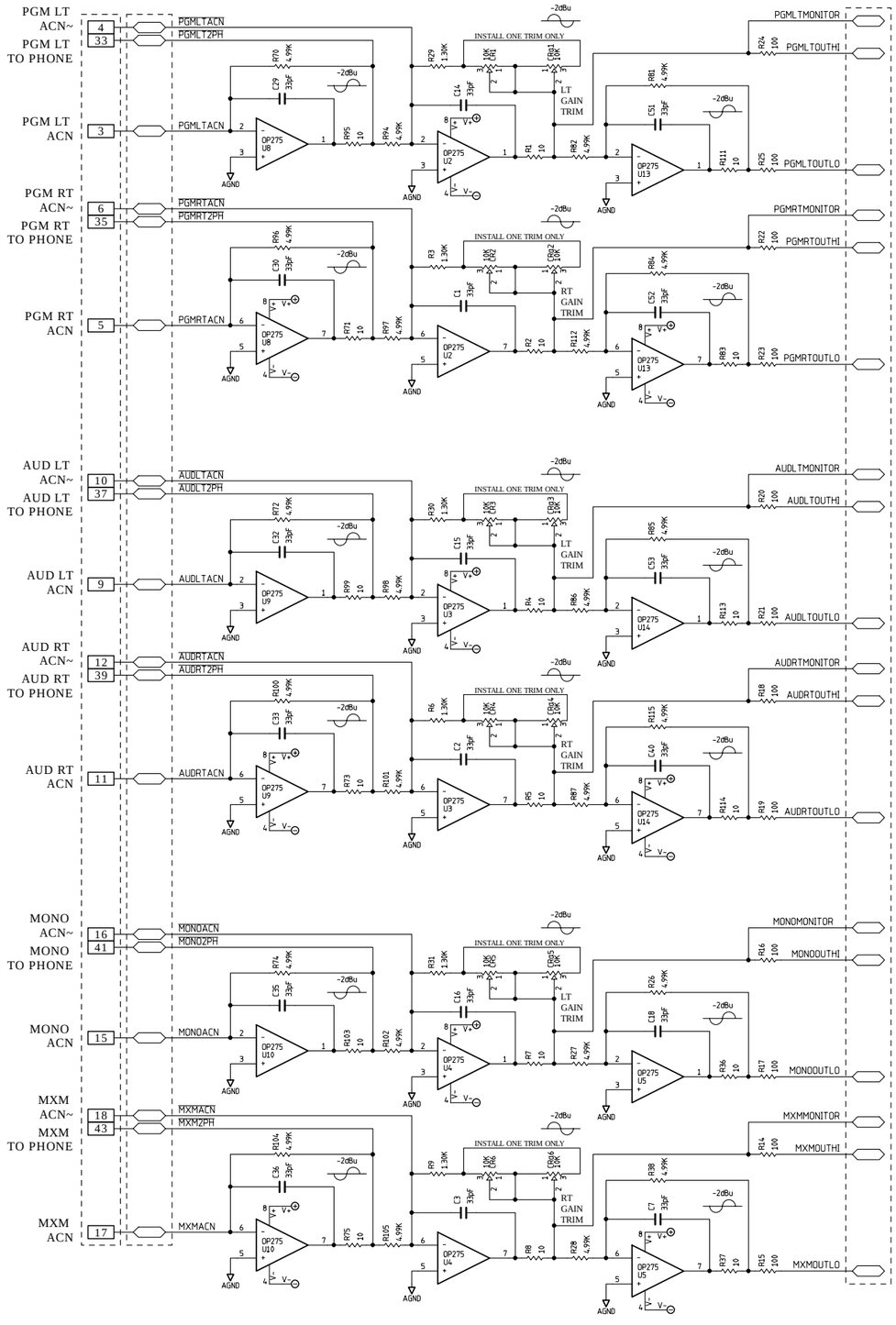


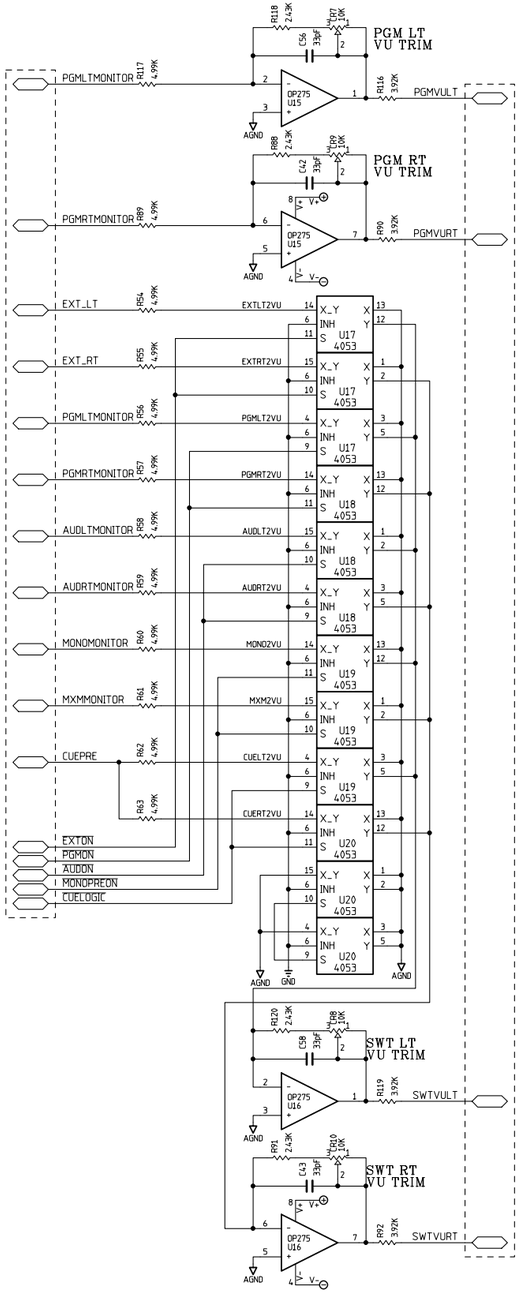
74VHC4053
IC PINOUT
VIEWED FROM ABOVE
(COMPONENT SIDE)



3 PIN JST
CONNECTOR
PINOUT
VIEWED FROM
ABOVE
(COMPONENT
SIDE)



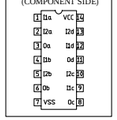




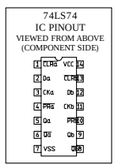
CONTRACT NO.		OM-2600	
APPROVALS	DATE	Wheatstone Corporation	
DRAWN SA	4-26-02	600 Industrial Drive	
CHECKED	SA	New Bern, NC 28562	
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0016 / REV A	
W# 700655		SCALE OM-2000A PCB / SHEET 1 OF 3	

OM-2600 Output Module Schematic - Sheet 1 of 3

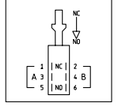
74AC00
IC PINOUT
VIEWED FROM ABOVE
(COMPONENT SIDE)



74LS74
IC PINOUT
VIEWED FROM ABOVE
(COMPONENT SIDE)



TYPICAL 2 POLE
SWITCH PINOUT
VIEWED FROM ABOVE
(COMPONENT SIDE)



62 PIN
EDGE
CONNECTOR

CUE LOGIC~ 29 CUELOGIC

VCC R52 4.99K

D2 4148 SS14 D1 R51 88.7K C20 100uF GND

CUE LED DS4 R53 475

EXT SW DS1 R41 619

PGM SW DS2 R44 619

AUD SW DS3 R46 332

MONO/ PRE SW DS5 R48 619

SW1 SW2 SW3 SW4

R39 40.2K R40 40.2K R42 40.2K R43 40.2K R45 40.2K R49 40.2K R47 40.2K R50 40.2K

U6 U21 74ACT74

U7 74ACT00

EXTON PGMON AUDON MONOPREON

TIMER RESTART~ 30 TIMERRESTART R64 4.99K RESTART

F2 POLYSW 3A +DIGin

Z3 1N4735 6.2V C10 0.1uF C54 0.1uF C25 22uF

58 +DIG
55 DIG.COM.
62 PIN
EDGE
CONNECTOR

MUTE1~ 31 MUTE1 R122 3.32K R123 3.32K Q1 MMBTA55 D3 1N4002W

MUTE2~ 32 MUTE2 R124 3.32K R125 3.32K Q2 MMBTA55 D4 1N4002W

TALLY1 K2 RELAY TALLY1NO TALLY1C
TALLY 1 N.O. 3
TALLY 1 C. 7

TALLY 2 K2 RELAY TALLY2NO TALLY2C
TALLY 2 N.O. 1
TALLY 2 C. 6

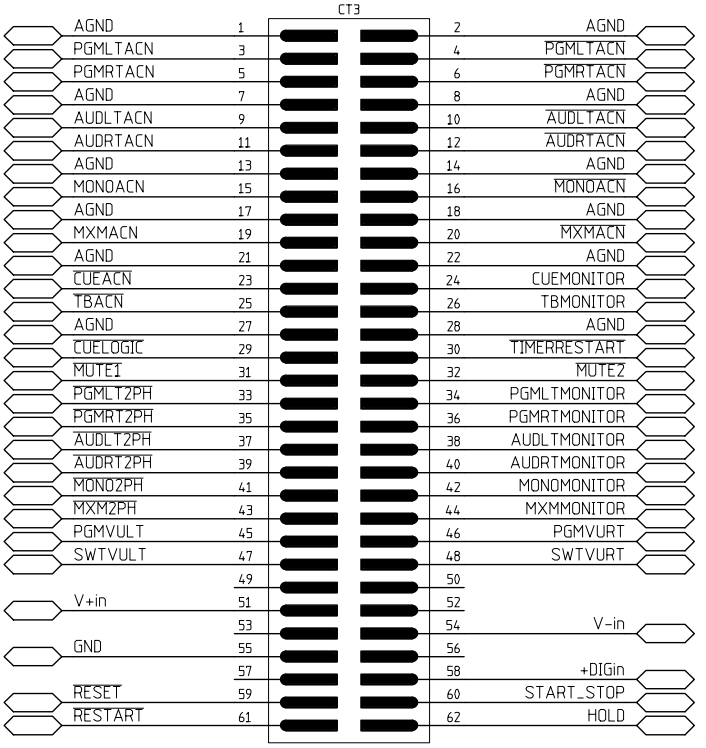
DB-9
CONNECTOR

C55 0.1uF C23 0.1uF C21 0.1uF C24 0.1uF

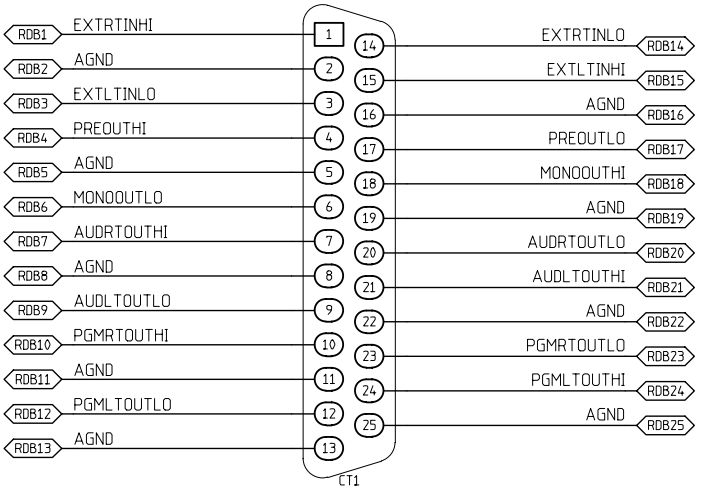
CONTRACT NO.		OM-2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-26-02		
CHECKED	SA		
ISSUED	SA		
W# 700655		SIZE D / FSCM NO. / DWG. NO. 16S0017 / REV A	
		SCALE OM-2000A PCB / SHEET 2 OF 3	

OM-2600 Output Module Schematic - Sheet 2 of 3

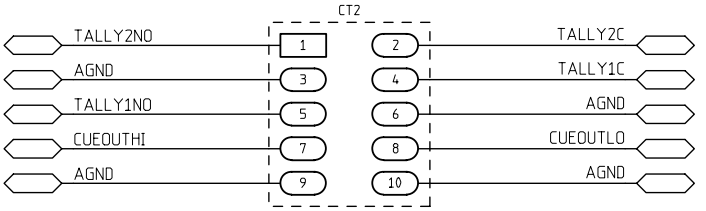
EDGE CONNECTOR BUSS CHART



RIGHT DB-25 CONNECTOR



TO LEFT DB-9 CONNECTOR



CONTRACT NO.		OM-2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-26-02		
CHECKED	SA		
ISSUED	SA	SIZE B / FSCM NO. / DWG. NO. 16S0008 / REV A	
W# 700655		SCALE / OM-2000A PCB / SHEET 3 OF 3	

AGND

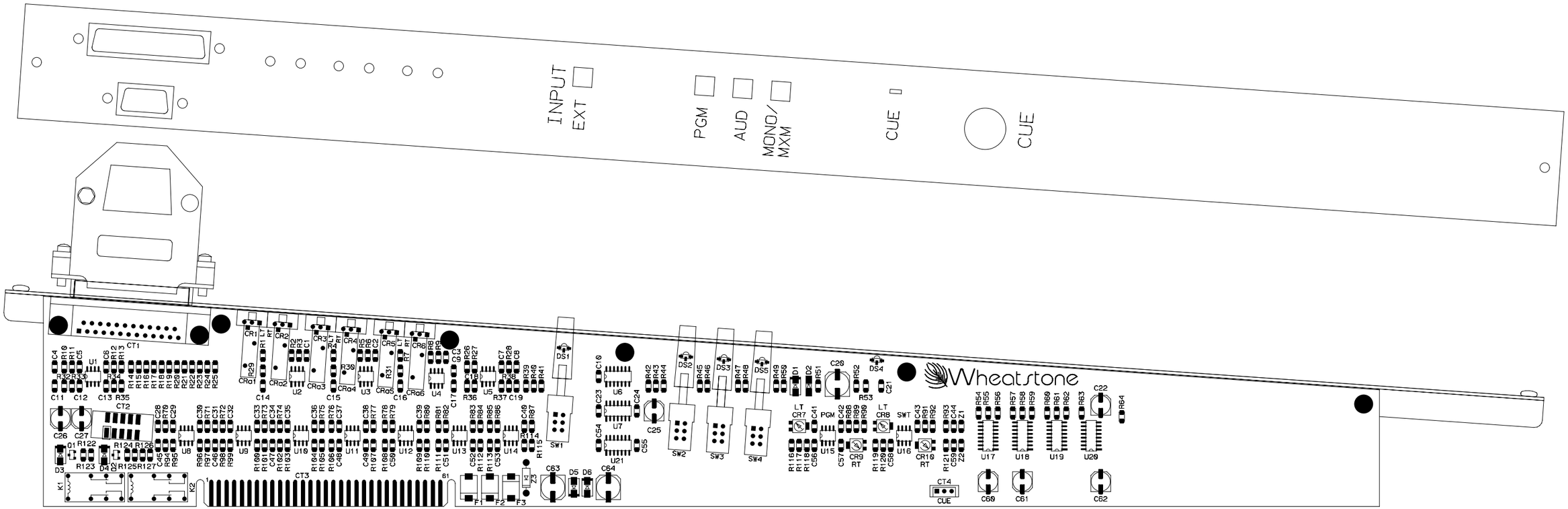
AGND

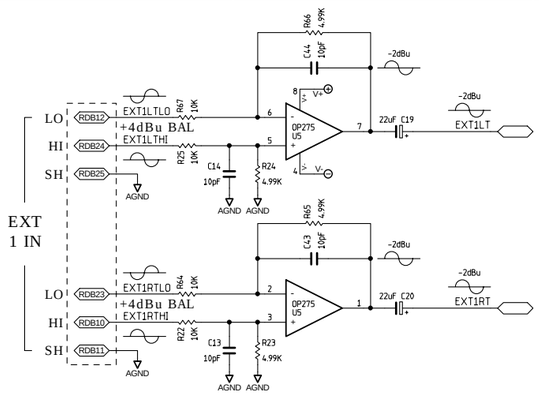
AGND

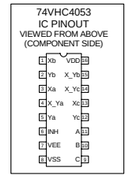
AGND

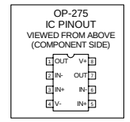
AGND

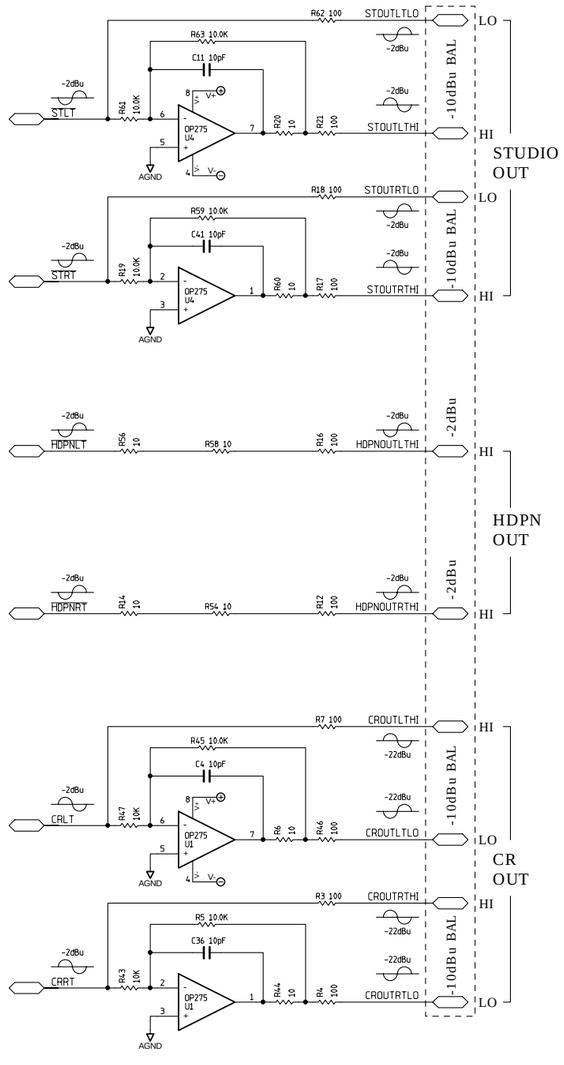
OM-2600 Output Module Schematic - Sheet 3 of 3

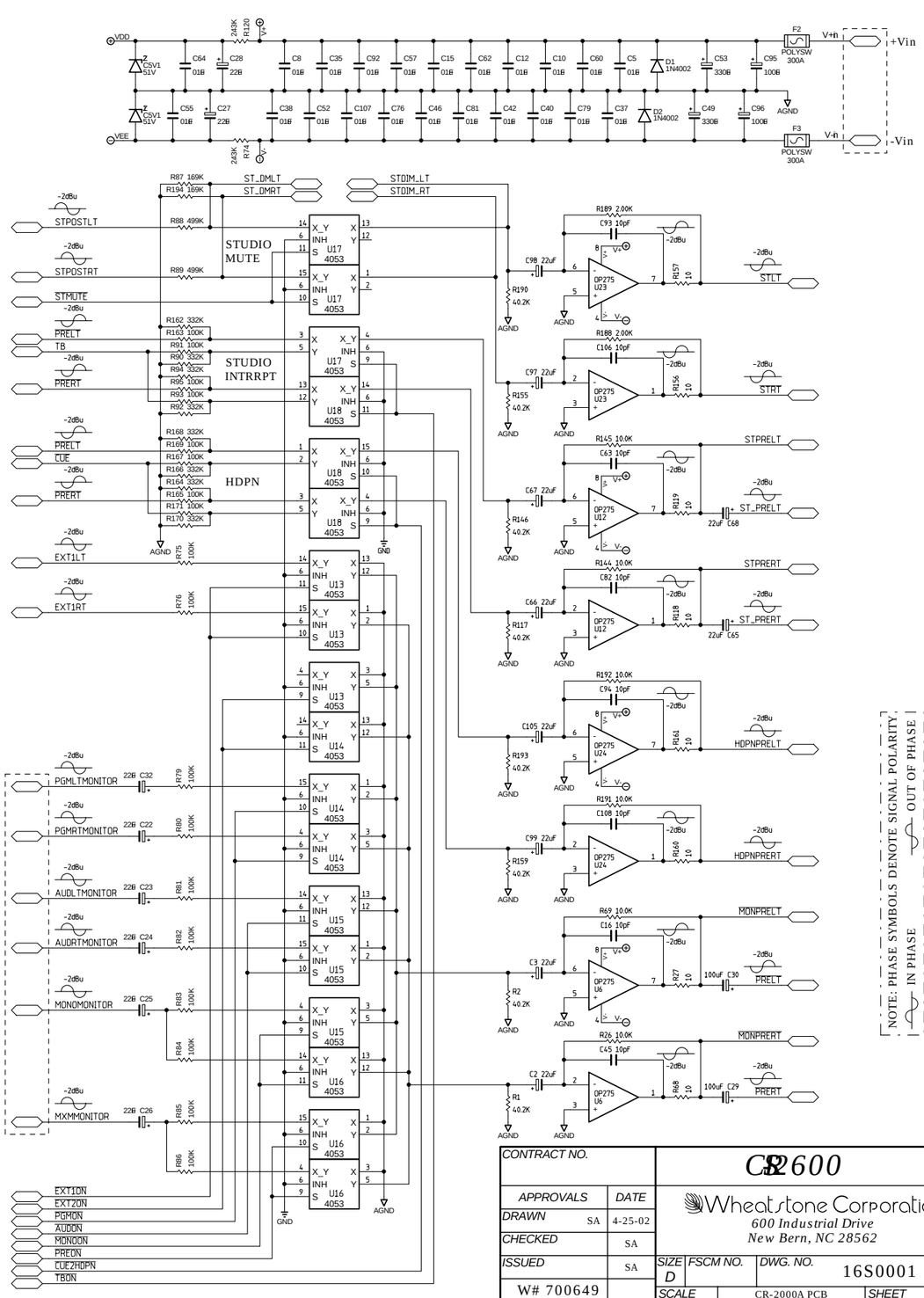

INPUT
EXT
PGM
AUD
MONO/
MXM
CUE
CUE
Wheatstone







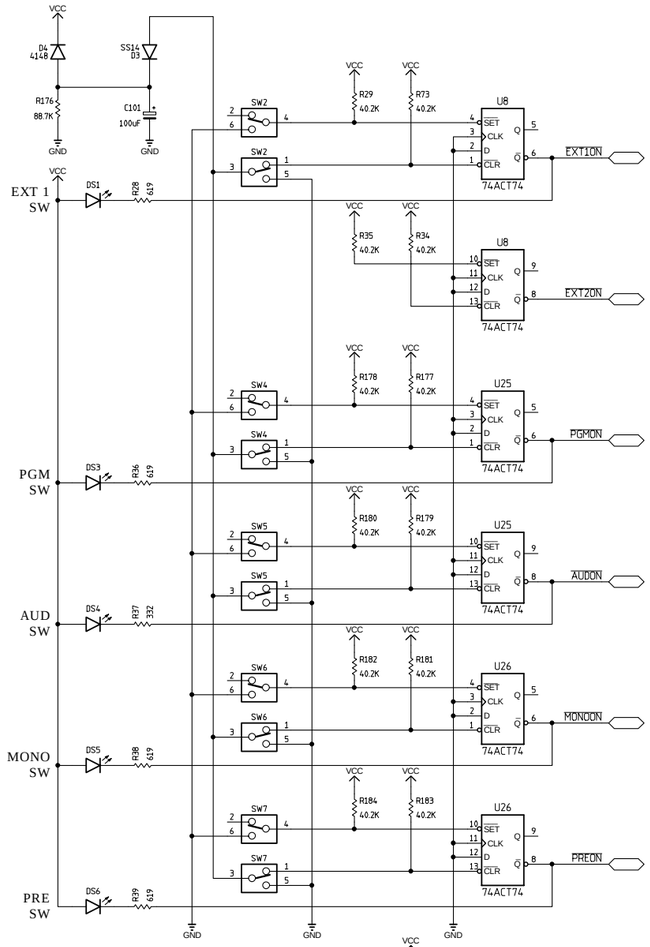


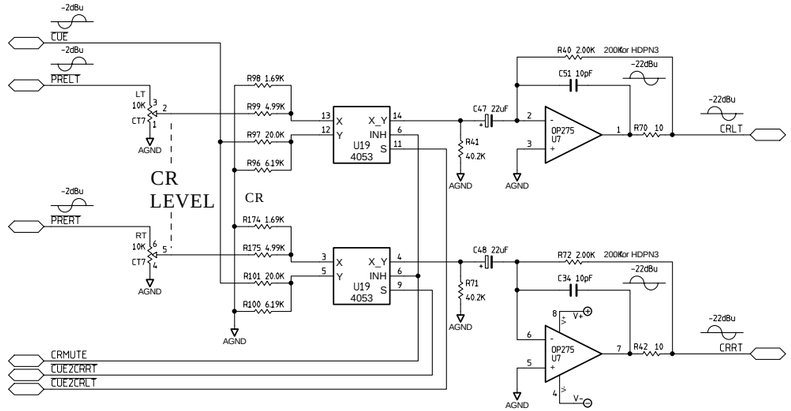


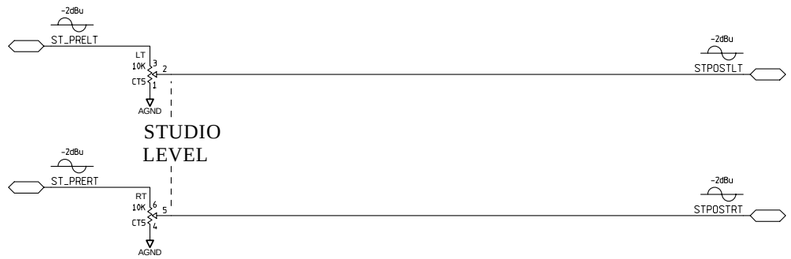
NOTE: PHASE SYMBOLS DENOTE SIGNAL POLARITY
OUT OF PHASE
IN PHASE

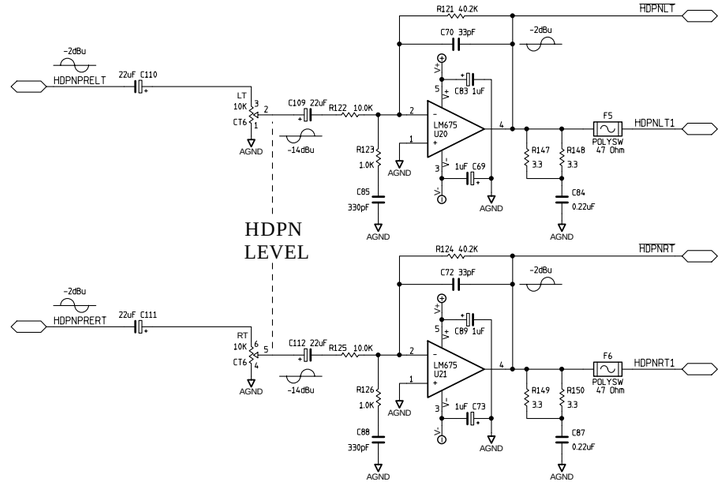
CONTRACT NO.		CRS2600		
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562		
DRAWN SA	4-25-02			
CHECKED	SA			
ISSUED	SA	SIZE D	FSCM NO.	DWG. NO. 16S0001 REV A
W# 700649		SCALE CR-2000A PCB		SHEET 1 OF 3

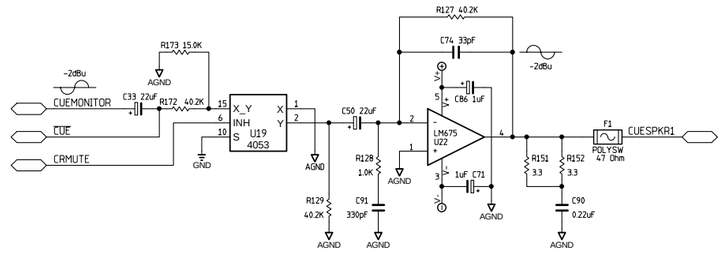
CRS-2600 Control Room/Studio Module Schematic - Sheet 1 of 3

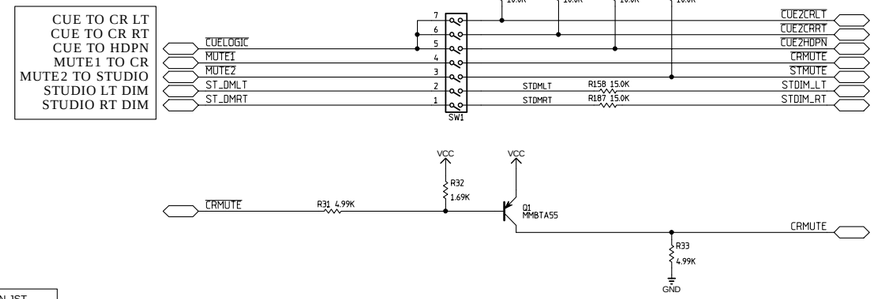


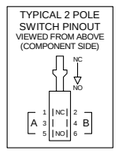


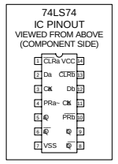




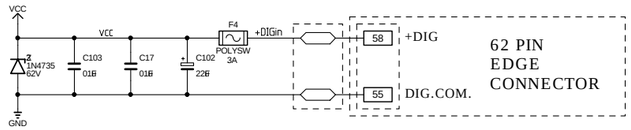


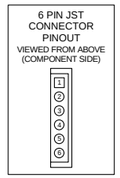






NOTE: PHASE SYMBOLS DENOTE SIGNAL POLARITY
IN PHASE OUT OF PHASE





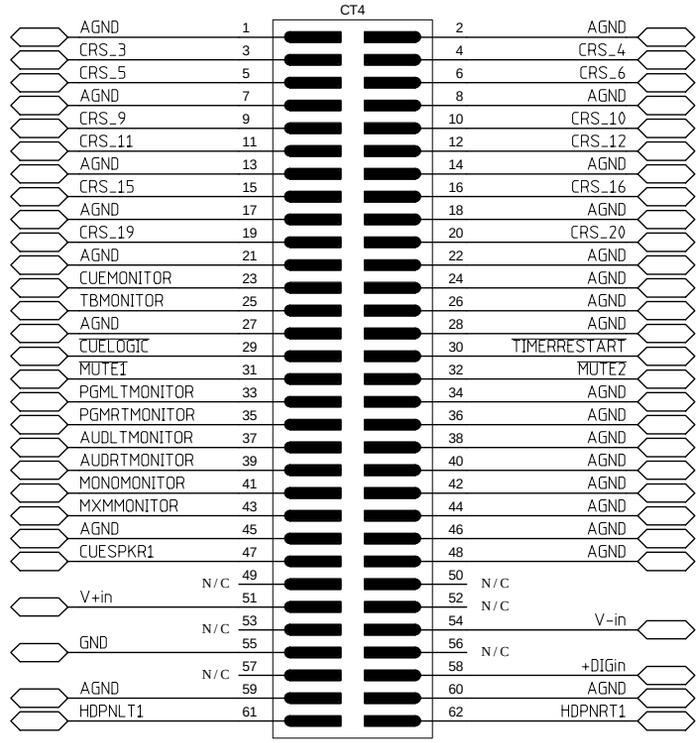
CONTRACT NO.	
APPROVALS	DATE
DRAWN SA	4-25-02
CHECKED	SA
ISSUED	SA
W# 700649	

CRS-2600

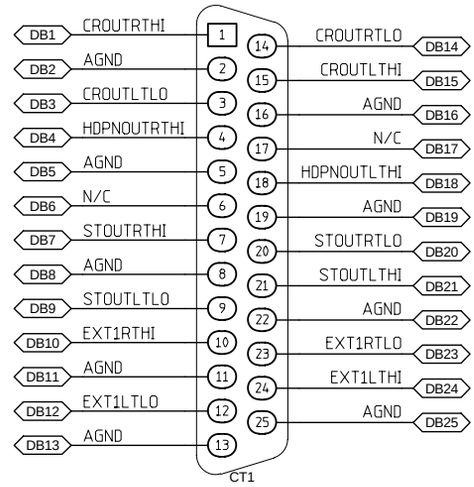
Wheatstone Corporation
600 Industrial Drive
New Bern, NC 28562

SIZE	FSCM NO.	DWG. NO.	REV
D		16S0002	A
SCALE	CR-2000A PCB	SHEET	2 OF 3

EDGE CONNECTOR BUSS CHART



DB-25 CONNECTOR



CONTRACT NO.		CR2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-25-02		
CHECKED	SA		
ISSUED	SA		
W# 700649		SIZE B / FSCM NO. / DWG. NO. 16S0013 / REV -	
		SCALE / CR-2000A PCB / SHEET 3 OF 3	

AGND

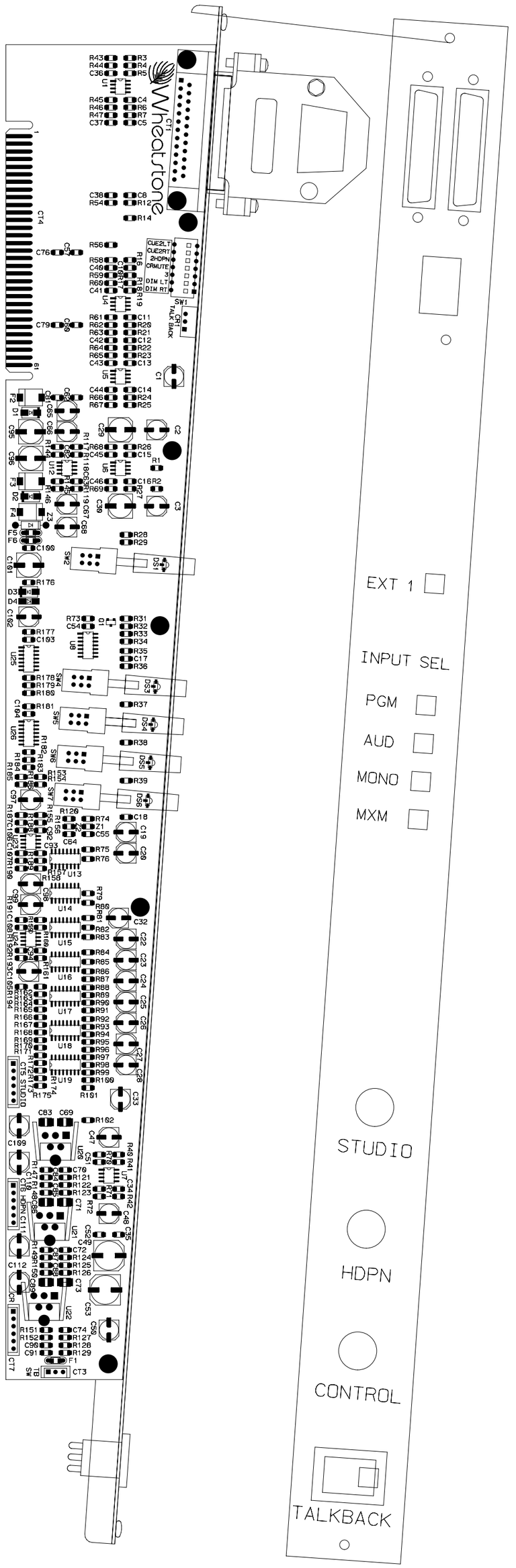
AGND

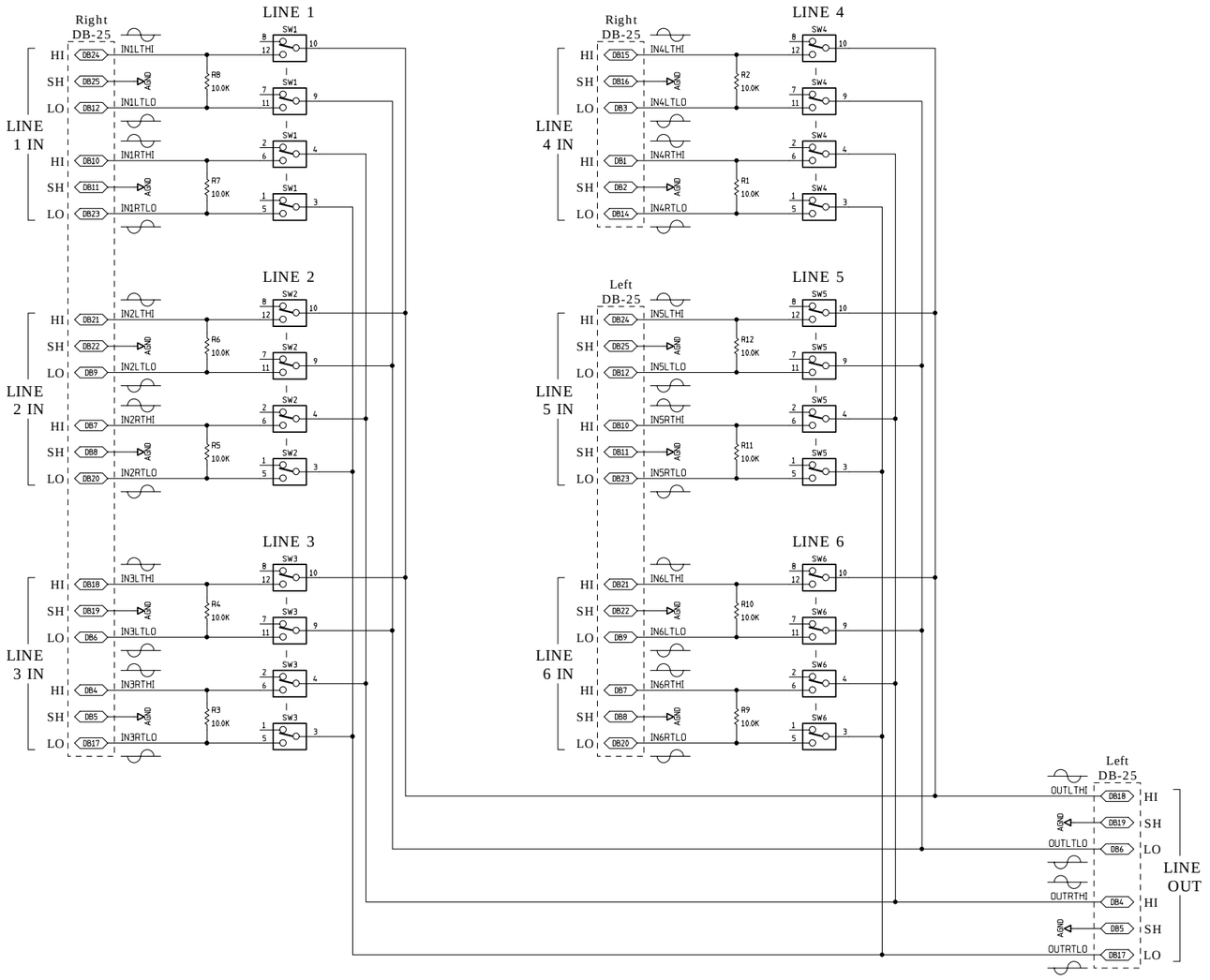
AGND

AGND

AGND

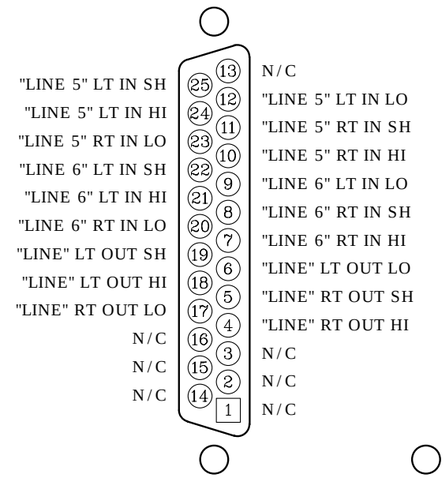
CRS-2600 Control Room/Studio - Sheet 3 of 3


EXT 1
INPUT SEL
PGM
AUD
MONO
MXM
STUDIO
HDPN
CONTROL
TALKBACK

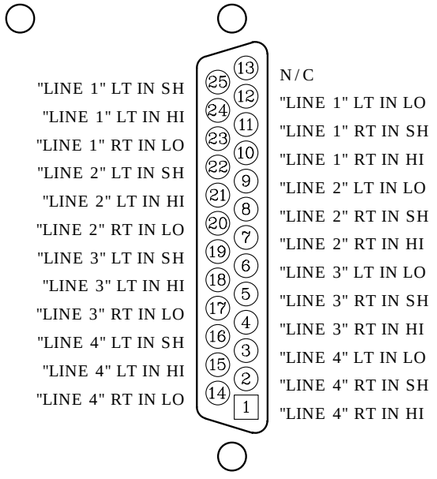


LS-2600 Line Selector

DB Connector Pinouts

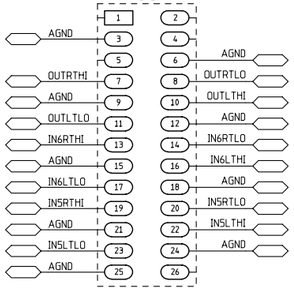


I/O PORTS
(Left DB25)

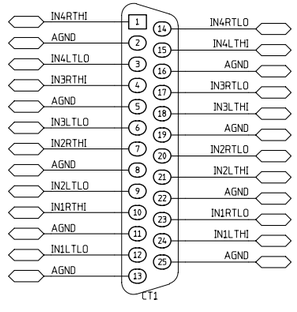


I/O PORTS
(Right DB25)

To Left DB-25 CONNECTOR

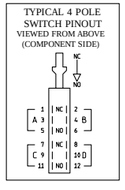


Right DB-25 CONNECTOR



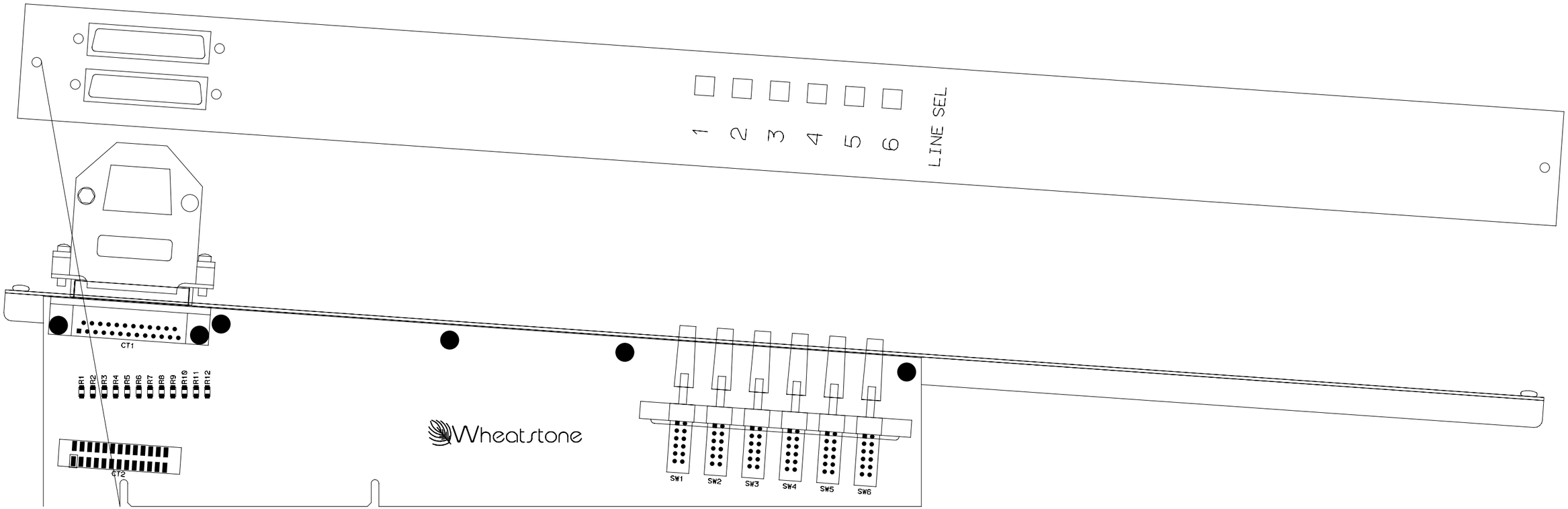
NOTE: PHASE SYMBOLS DENOTE SIGNAL POLARITY
IN PHASE — OUT OF PHASE

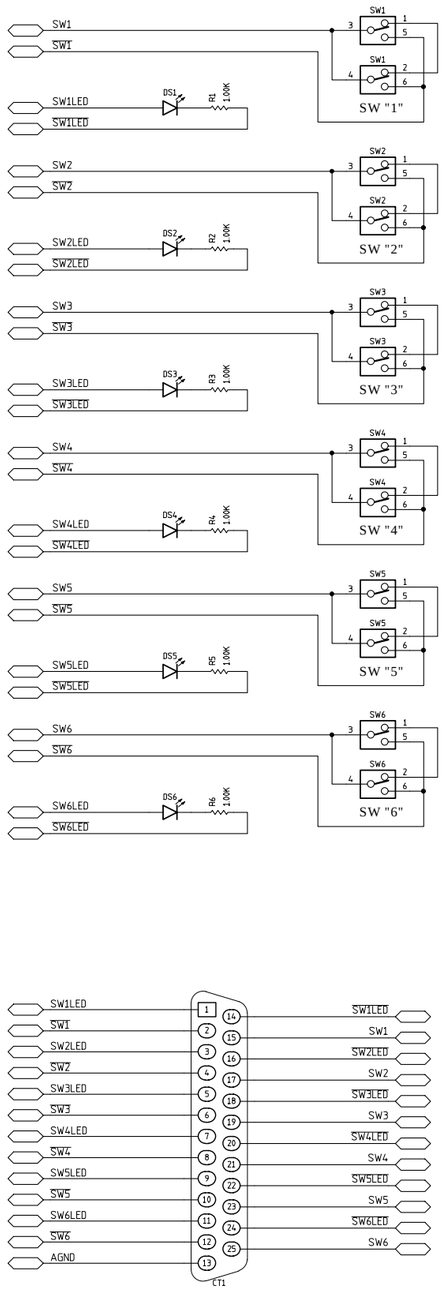
TYPICAL 4 POLE SWITCH PINOUT VIEWED FROM ABOVE (COMPONENT SIDE)



CONTRACT NO.		LS-2600
APPROVALS	DATE	Wheatstone Corporation
DRAWN SA	6-6-01	600 Industrial Drive
CHECKED	SA	New Bern, NC 28562
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0025 / REV -
W# 700679		SCALE / LS-2600 PCB / SHEET 1 OF 1

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

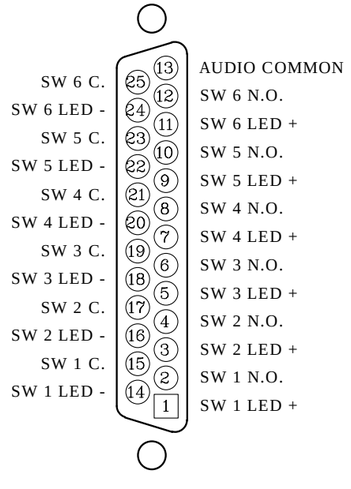

1
2
3
4
5
6
LINE SEL
CT1
CT2
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
Wheatstone
SW1
SW2
SW3
SW4
SW5
SW6

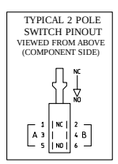


TR-2600 I/O

DB Connector Pinouts

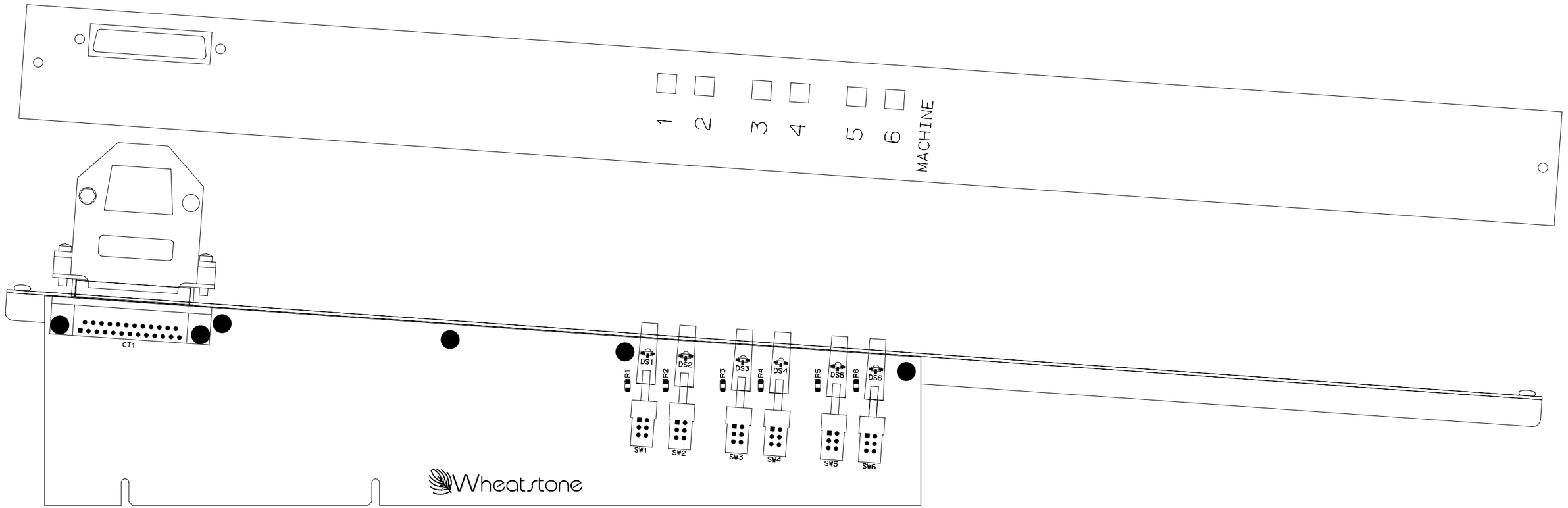
I/O PORTS

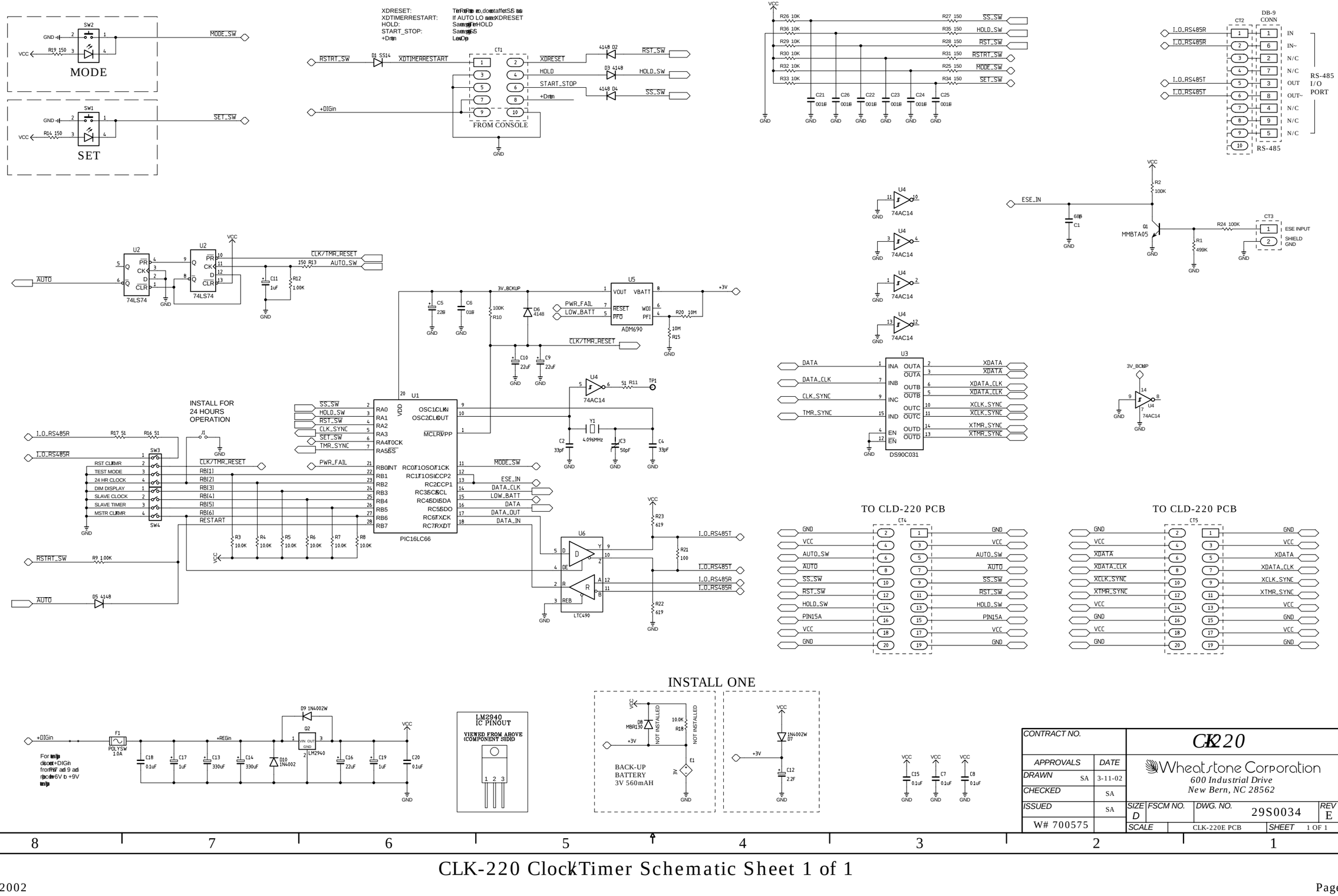




CONTRACT NO.		TR-2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	1-3-01		
CHECKED	SA		
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0022 / REV -	
W# 700658		SCALE TR-2000 PCB / SHEET 1 OF 1	

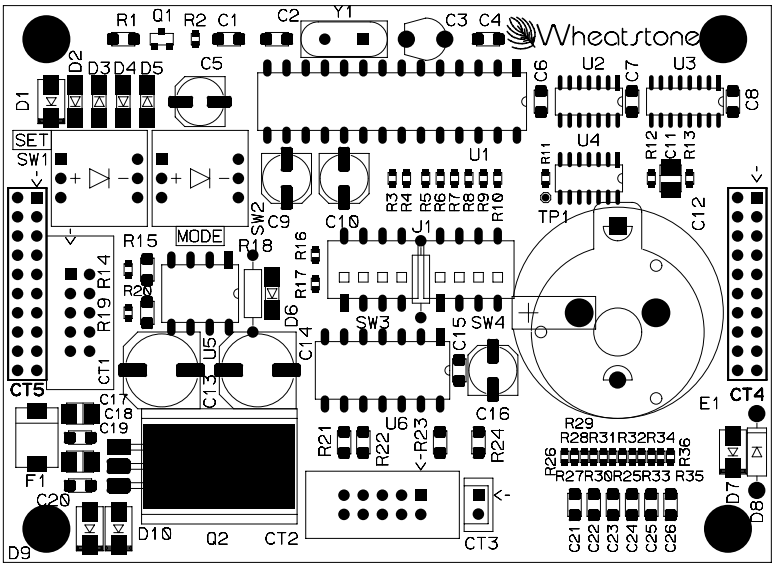
TR-2600 Tape Remote Module Schematic - Sheet 1 of 1


1
2
3
4
5
6
MACHINE
CT1
DS1
DS2
DS3
DS4
DS5
DS6
R1
R2
R3
R4
R5
R6
SW1
SW2
SW3
SW4
SW5
SW6
Wheatstone

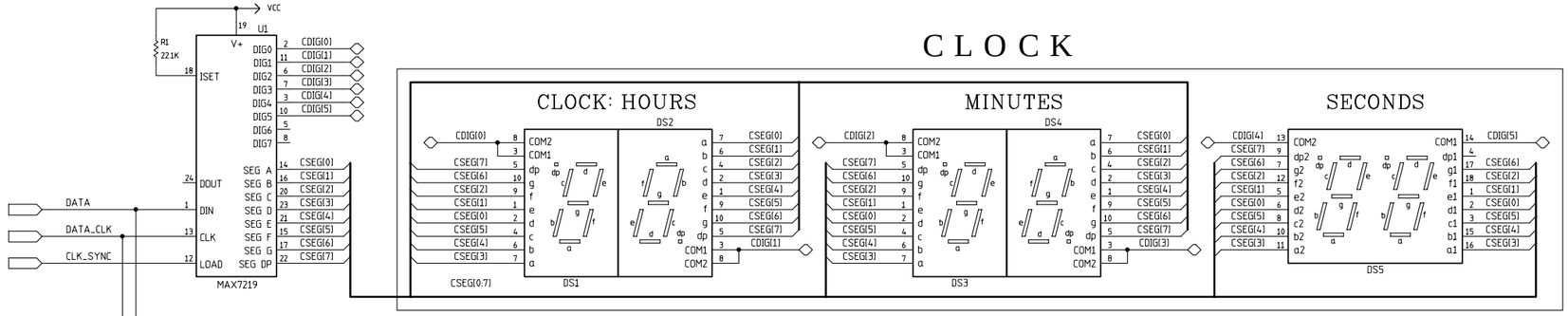


CONTRACT NO.		CLK220	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	3-11-02		
CHECKED	SA		
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 29S0034 / REV E	
W# 700575		SCALE / CLK-220E PCB / SHEET 1 OF 1	

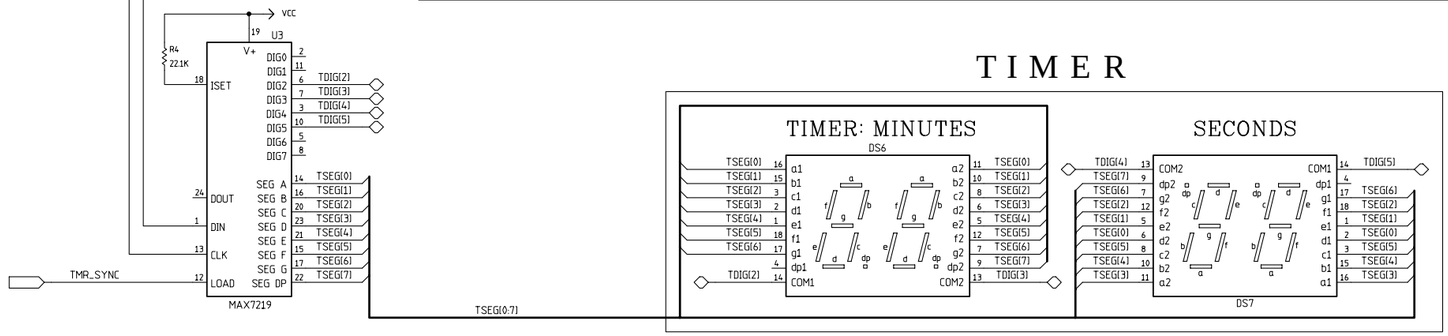
CLK-220 Clock/Timer Schematic Sheet 1 of 1

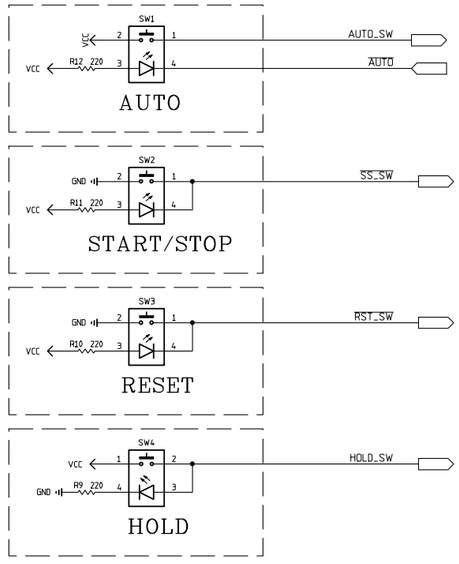

Wheatstone
R1
Q1
R2
C1
C2
Y1
C3
C4
D2
D3
D4
D5
C5
D1
C6
U2
C7
U3
C8
SET
SW1
U1
U4
R12
C11
R13
R11
TP1
C12
R3
R4
R5
R6
R7
R8
R9
R10
SW2
C9
C10
J1
R15
MODE
R18
R16
R17
R14
R19
R20
D6
SW3
SW4
C15
C14
U5
C13
CT1
CT5
C16
E1
CT4
C17
C18
C19
R29
R28R31R32R34
R26
R27R30R25R33 R35
U6
R21
R22
R23
R24
F1
C20
D7
D8
D9
D10
Q2
CT2
CT3
C21
C22
C23
C24
C25
C26

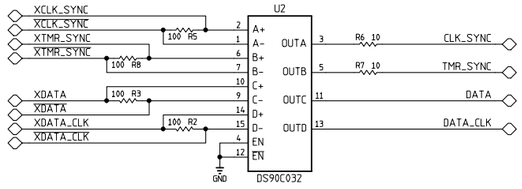
CLOCK

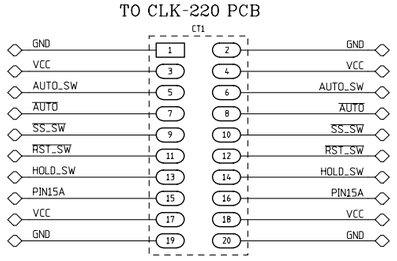


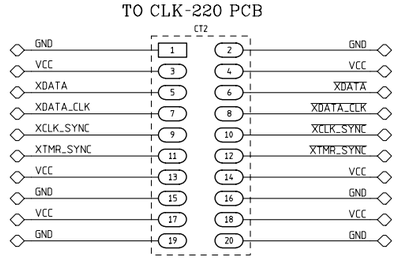
TIMER

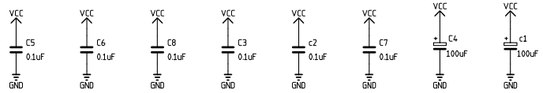










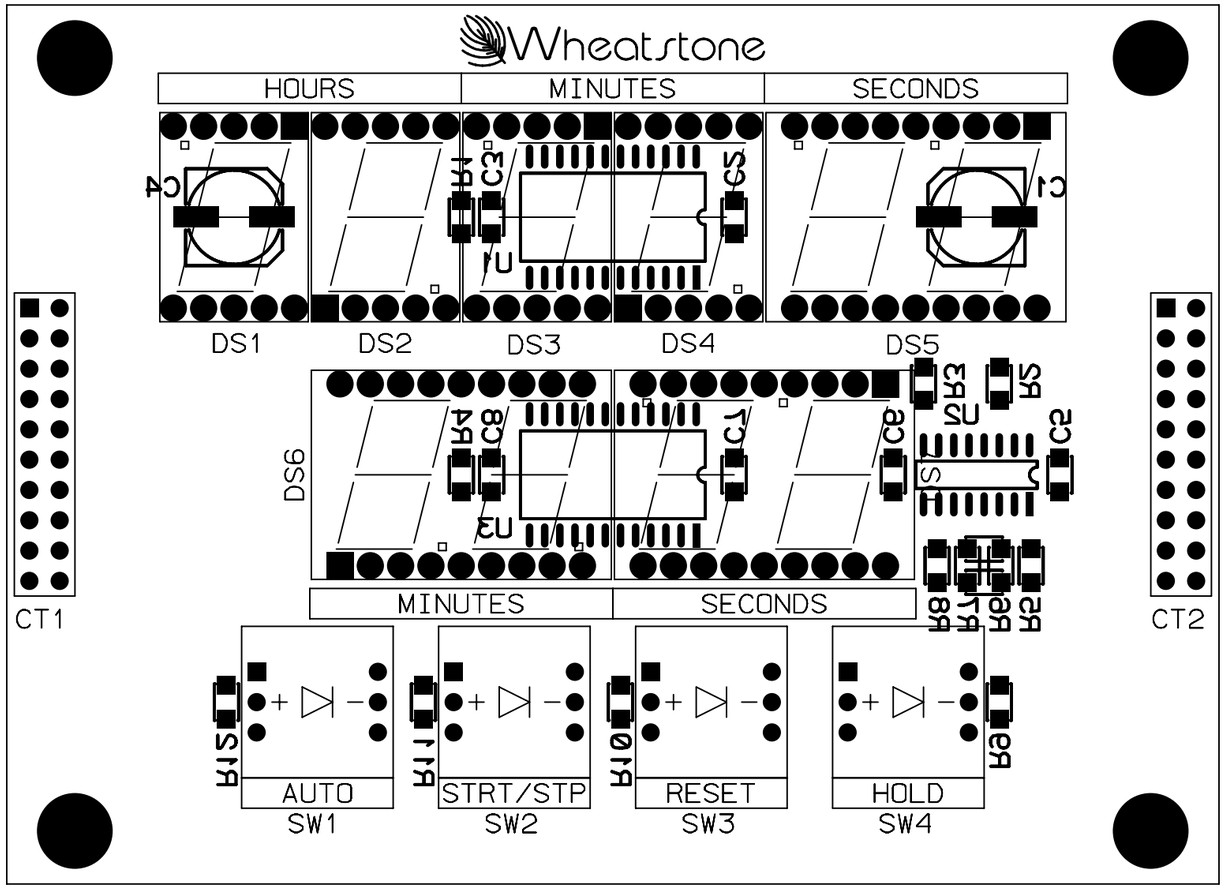


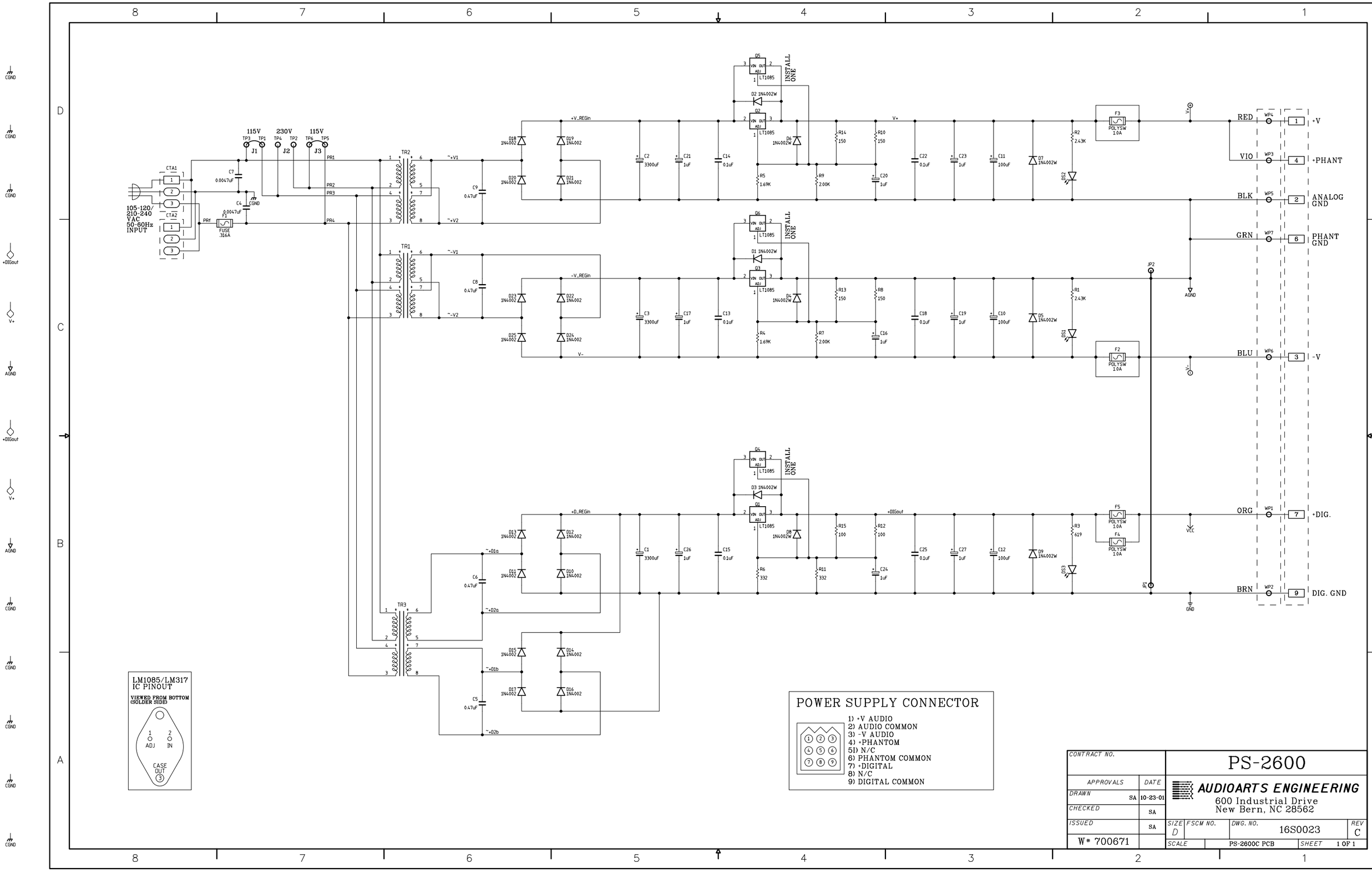
CONTRACT NO.	
APPROVALS	DATE
DRAWN JBB	9-26-00
CHECKED	SA
ISSUED	SA
W# 700575	

CD-220

Wheatstone Corporation
600 Industrial Drive
New Bern, NC 28562

SIZE	FSCM NO.	DWG. NO.	REV
D		29S0024	B
SCALE	CLD-220B PCB	SHEET	1 OF 1


Wheatstone
HOURS
MINUTES
SECONDS
DS1
DS2
DS3
DS4
DS5
DS6
MINUTES
SECONDS
CT1
CT2
AUTO
SW1
STRT/STP
SW2
RESET
SW3
HOLD
SW4



PS-2600 Power Supply Schematic - Sheet 1 of 1

GND

115/230V
AC CONNECTOR

CTA2 GND CTA1

S/N [redacted]

Wheatstone

Sergey Averin USA
Сергей Аверин США

F1

C4

C7

115V J1
230V J2
115V J3

AC IN	INSTALL	REMOVE
115V	J1, J3	J2
230V	J2	J1, J3

C5

C6

C1

C2

C3

+DIG. GND

+PH

-PH

+V AGND -V

TR1

PRI

TR2

PRI

TR3

PRI

Q1

Q4

Q2

Q5

Q3

Q6

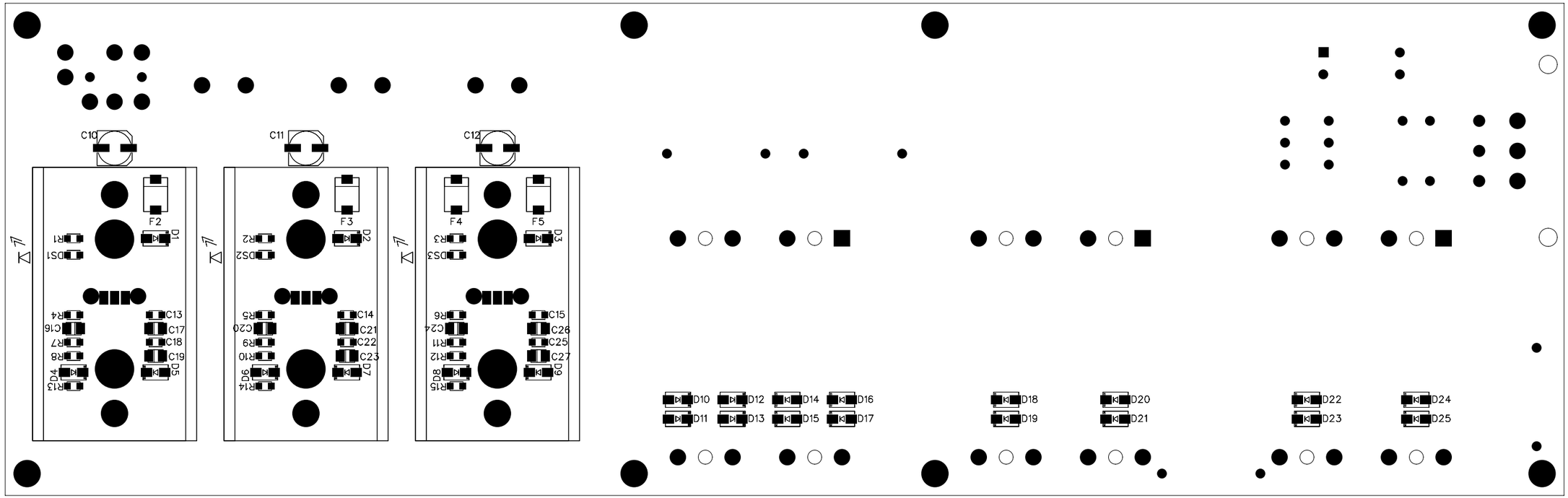
C8

C9

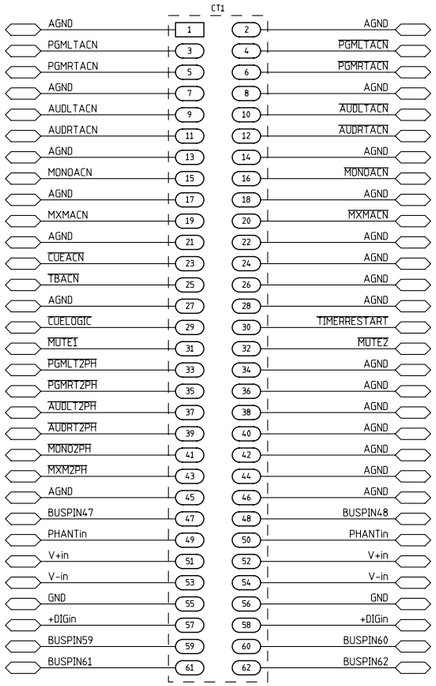
+DIG.

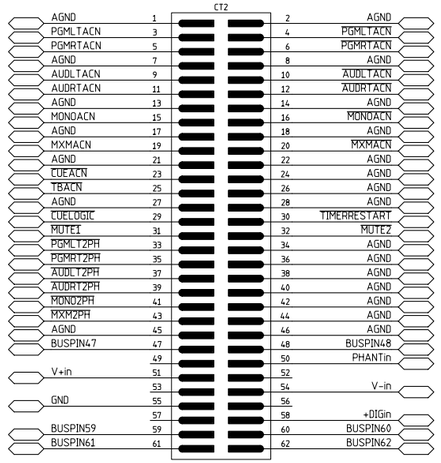
+V

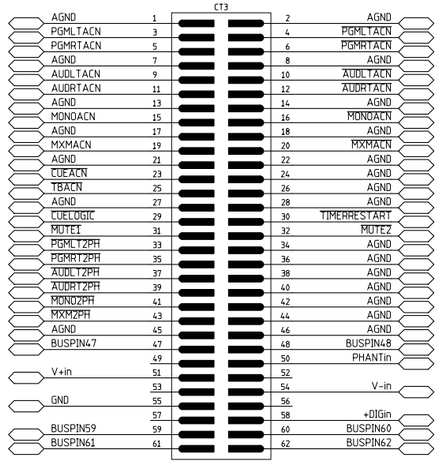
-V

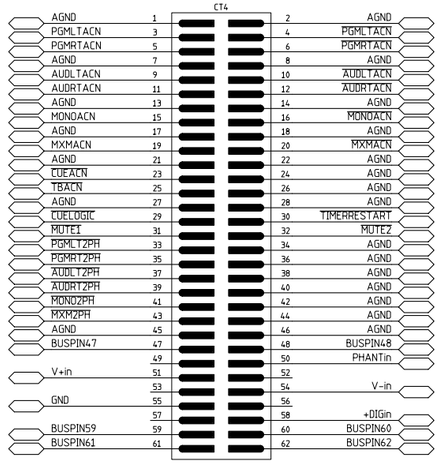

C10
C11
C12
F2
F3
F4
F5
D1
D2
D3
R1
R2
R3
DS1
DS2
DS3
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25

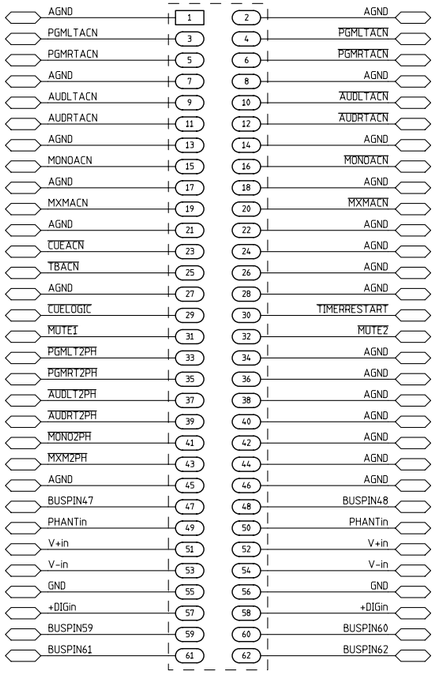
EDGE CONNECTORS BUSS CHART

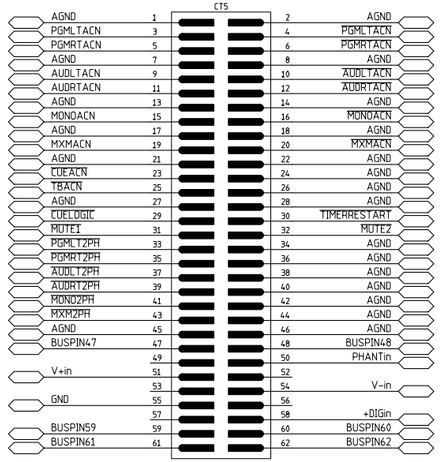


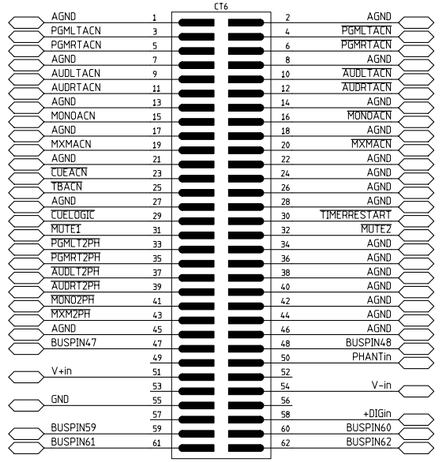


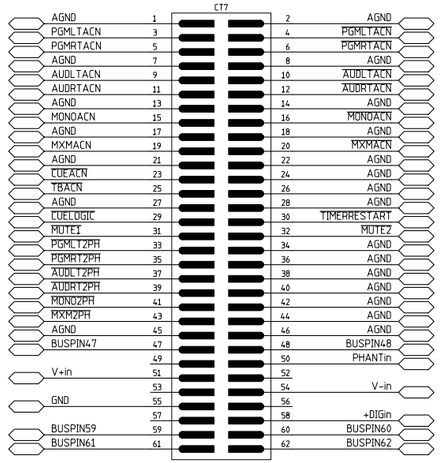








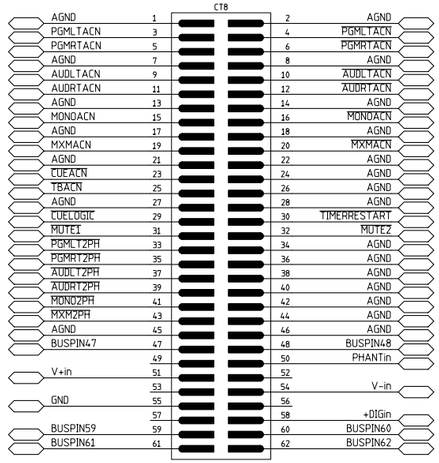


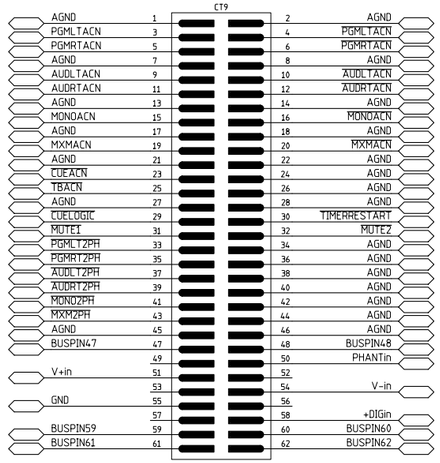


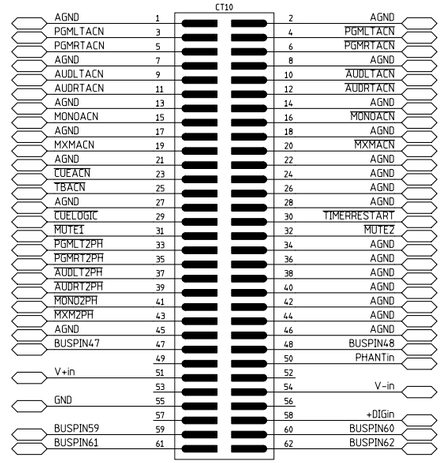
CONTRACT NO.		MBE-2011
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562
DRAWN SA	11-14-00	
CHECKED		SIZE D · FSCM NO. · DWG. NO. 16S0008 · REV
ISSUED		SCALE · MBE-2011 PCB · SHEET 1 OF 2
W* 700652		

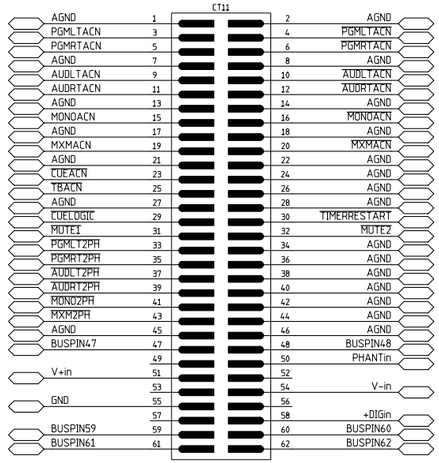
MBE-2011 11 Position Mother Board (Extender) Schematic - Sheet 1 of 2

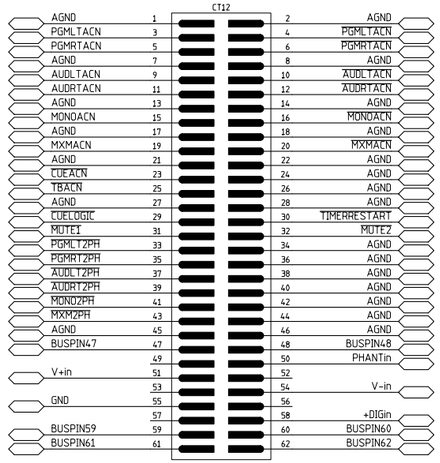
EDGE CONNECTORS BUSS CHART









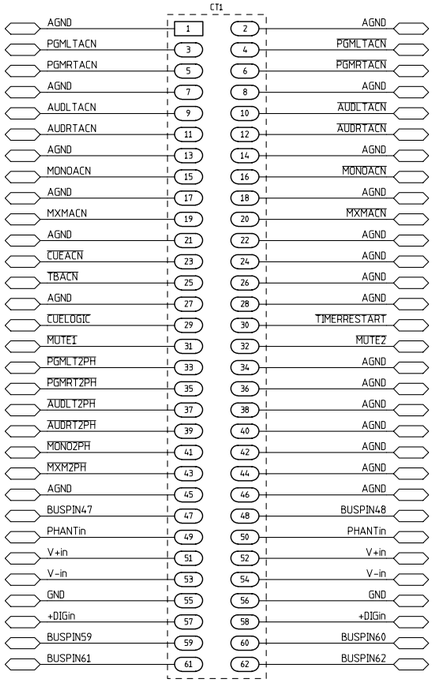


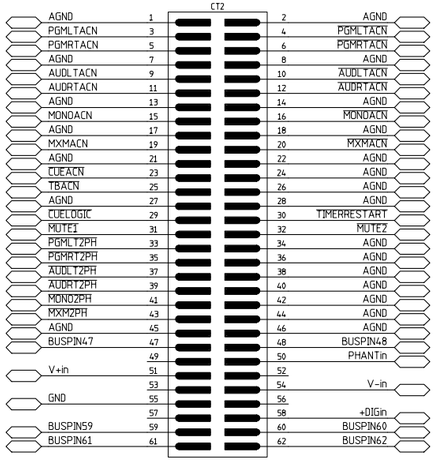
CONTRACT NO.		MBE-2011
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562
DRAWN SA	11-14-00	
CHECKED		
ISSUED		SIZE D · FSCM NO. · DWG. NO. 16S0009 · REV
W* 700652		SCALE · MBE-2011 PCB · SHEET 2 OF 2

CT1
CT2
CT3
CT4
CT5
CT6
CT7
CT8
CT9
CT10
CT11
CT12
CT13
PIN1->
PIN11->
PIN21->
PIN31->
PIN41->
PIN51->
PIN61->
S/N
Wheatstone
Sergey Averin USA
Сергей Аверин США
MBE-2011

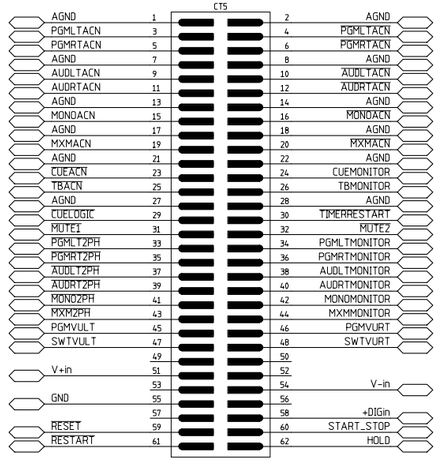
EDGE CONNECTORS BUSS CHART

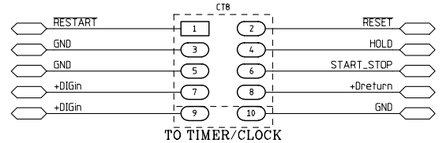
INPUT MODULE

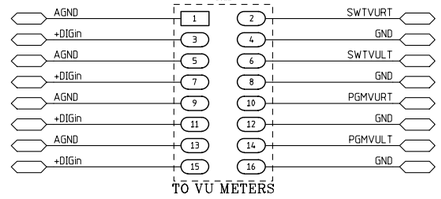




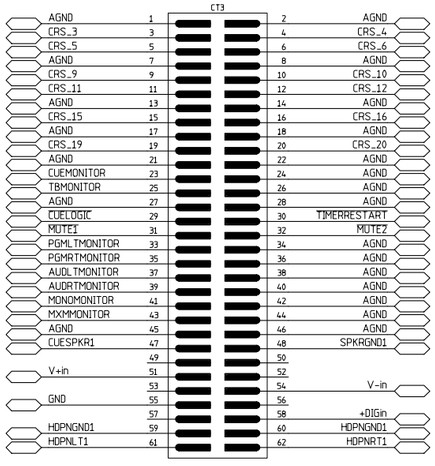
OUTPUT MODULE

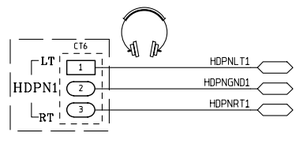


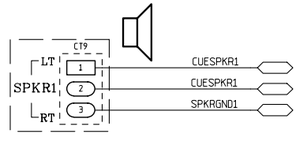




CR MODULE

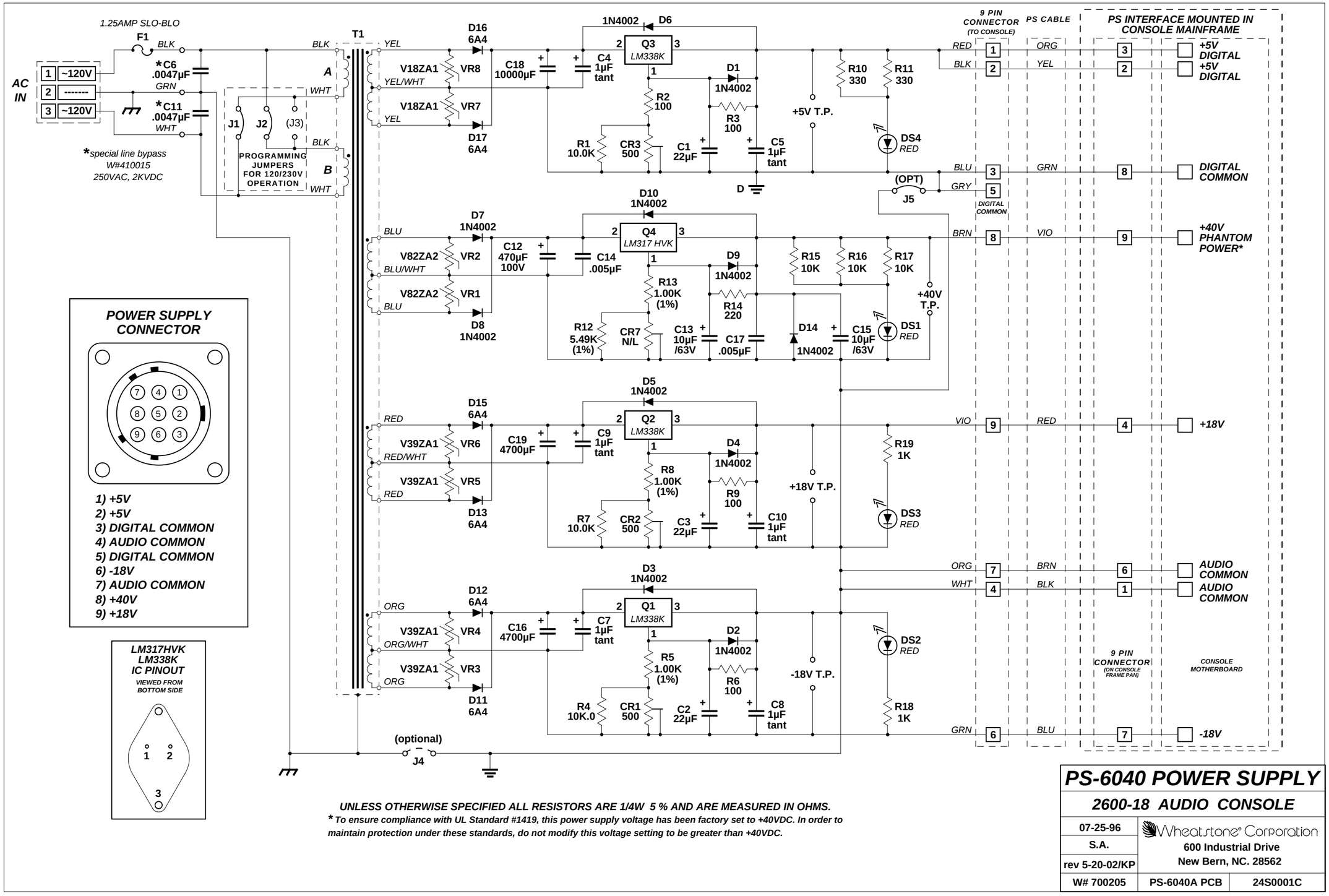






CONTRACT NO.		MBR-2600	
APPROVALS	DATE	Wheatstone Corporation 600 Industrial Drive New Bern, NC 28562	
DRAWN SA	4-25-02		
CHECKED	SA		
ISSUED	SA	SIZE D / FSCM NO. / DWG. NO. 16S0010 / REV A	
W# 700653		SCALE MBR-2000A PCB / SHEET 1 OF 1	

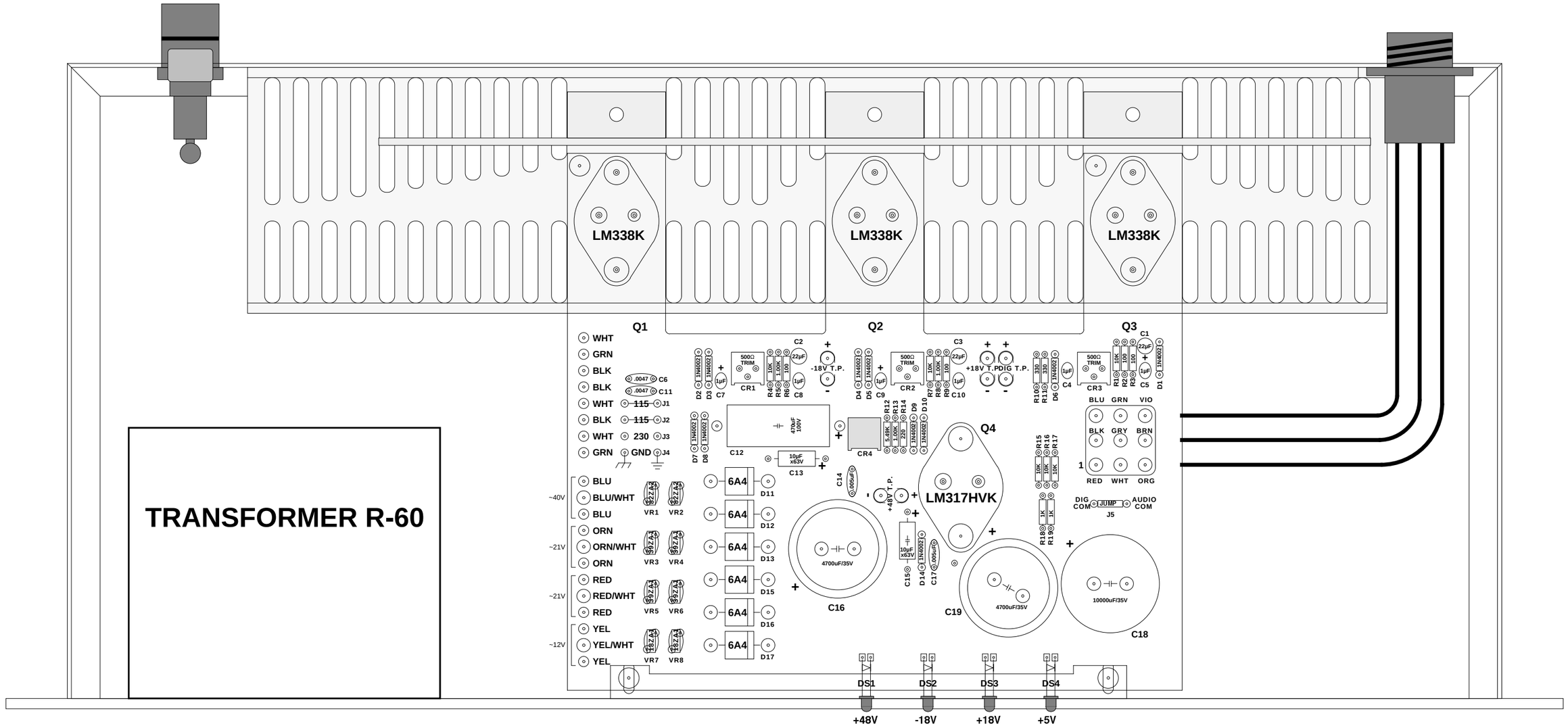
CT1
CT2
PIN1->
PIN11->
PIN21->
PIN31->
PIN41->
PIN51->
PIN61->
MBR-2000A
WP1
AGND
WP2
AGND
CT5
OUTPUT MODULE
+PHNT
P41->
V+
V-
DIG.GND
+DIG
AGND
WP3
WP6
WP5
WP4
WP9
WP8
WP7
Sergey Averin USA
Сергей Аверин США
CONTROL ROOM/STUDIO MODULE
CT3
CT4
S/N
STUDIO 2 MODULE
CT9
SPKR 1
CT10
SPKR 2
CT6
HDPN 1
CT7
HDPN 2
CT11
TO VU METERS
CT8
TO TIMER/CLOCK
Wheatstone



UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W 5 % AND ARE MEASURED IN OHMS.

** To ensure compliance with UL Standard #1419, this power supply voltage has been factory set to +40VDC. In order to maintain protection under these standards, do not modify this voltage setting to be greater than +40VDC.*

PS-6040 POWER SUPPLY		
2600-18 AUDIO CONSOLE		
07-25-96	Wheatstone® Corporation	
S.A.	600 Industrial Drive	
rev 5-20-02/KP	New Bern, NC. 28562	
W# 700205	PS-6040A PCB	24S0001C



100Ω
220Ω
1.00K
5.49K
10.0K
} 1%

WHEATSTONE CORP.
PS-6040A
LOAD SHEET
24L0014A