

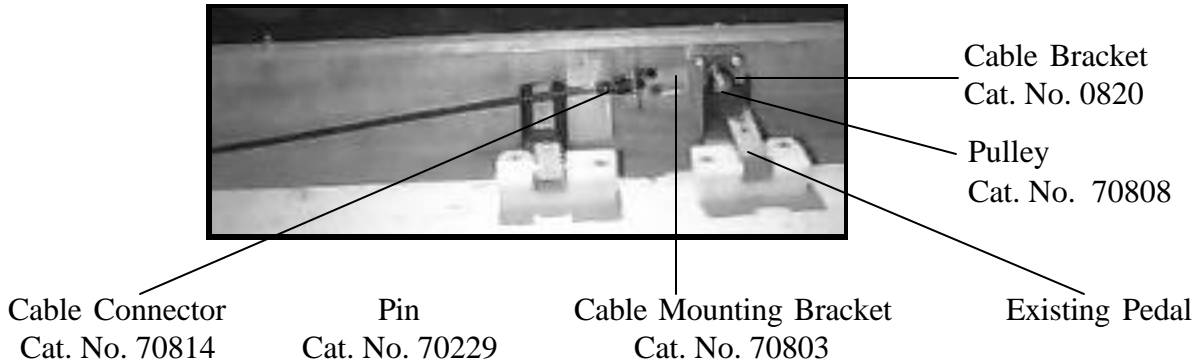
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# Cable Trapwork

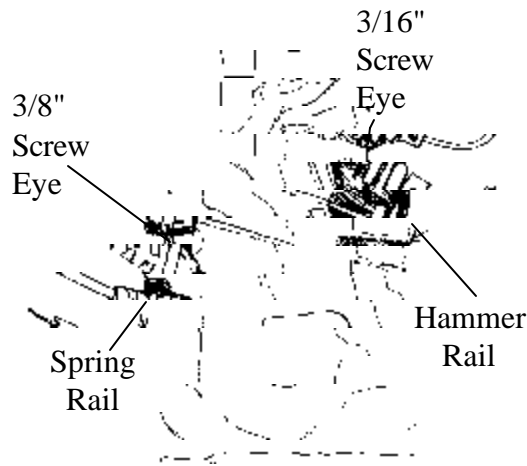
A unique system of cables are employed to eliminate space consuming bar trapwork. The layout is depicted below.

## Bottom Assembly Piano Floor

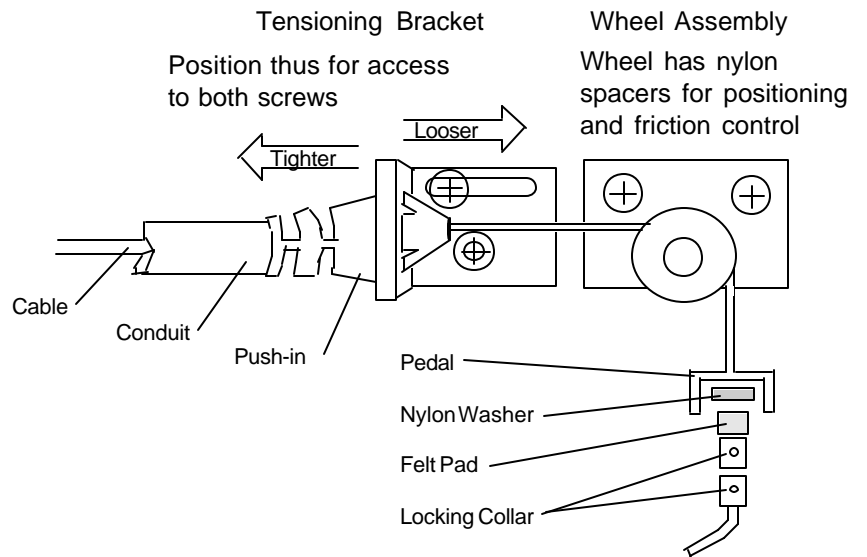


## Soft Shift Trapwork - Upright & Nick

Pre-drill into the ends of the action parts so they don't split. Open the eyes enough to remove cable for servicing.



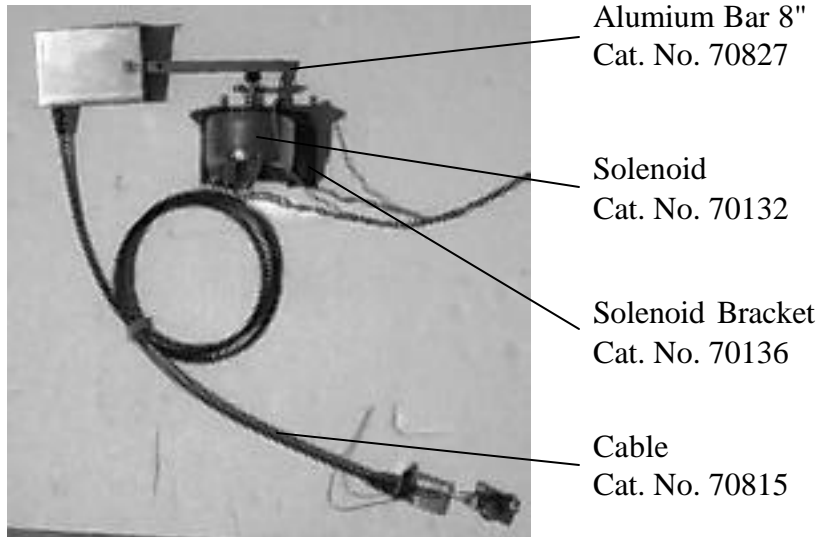
Note that the tensioning bracket need not be right next to the wheel assembly. The cable is okay with straight, free length if needed for clearance around pedals.



# Pedal Solenoid Assembly

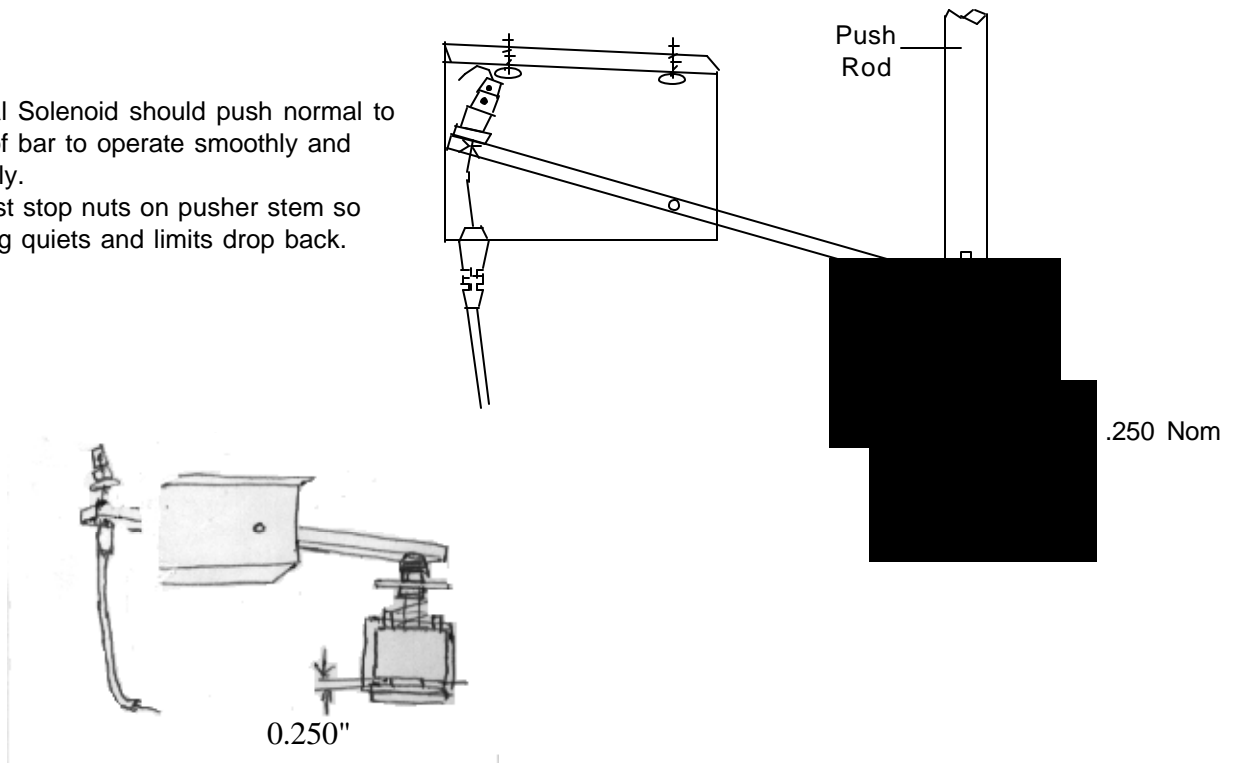
Both the sustain and soft play pedals are active. The sustain action can be activated by either the foot pedal or in the play mode automatically by the pedal solinoid. The design activates the movement of the sustain pedal in the playback mode.

## Top Assembly Key Bed



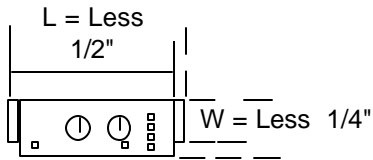
## PEDAL SOLENOID HOOKUP

Pedal Solenoid should push normal to arc of bar to operate smoothly and quietly.  
Adjust stop nuts on pusher stem so spring quiets and limits drop back.



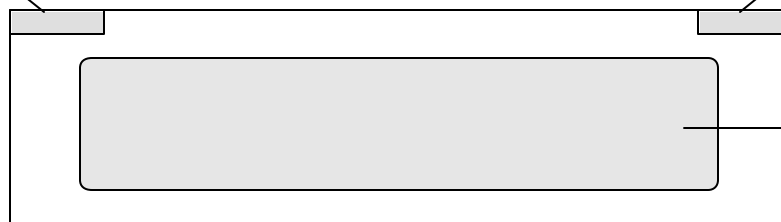
# Bottom Piano Panel

To remove bottom glass piano panel, open CD player door and then turn locking latch fully counter clockwise. Be sure to hold panel so that it doesn't free fall. This panel must be removed to gain access to the bottom instrument platforms.



Cut Here

Cut Here

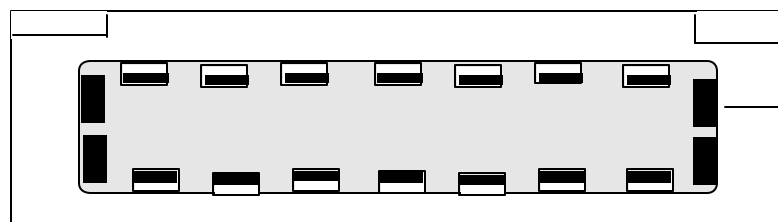


Window

**Bottom Panel**

Replacement of leaded glass window.

The leaded glass window is held in place with glaziers push points. To remove use putty knife to pry from wood frame. See illustration below.



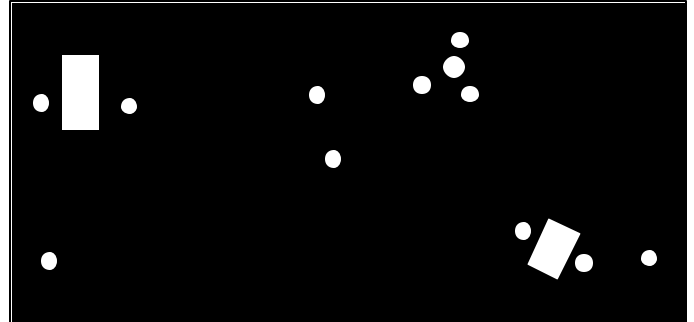
Push Points

**Bottom Panel**

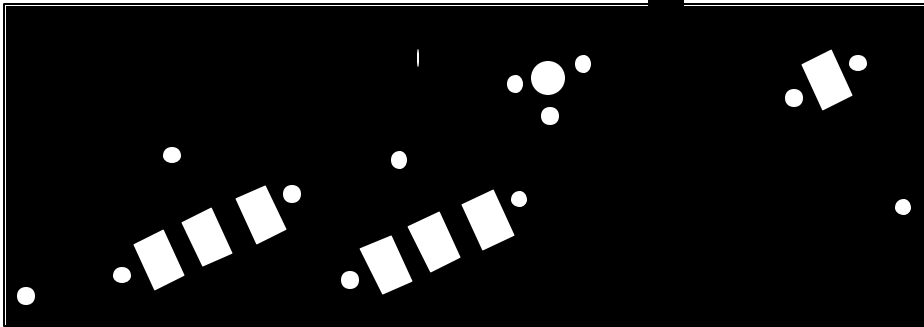
# Bottom Instrument Assembly Right

Both bottom instrument assemblies are removable. Two screws on each platform hold them in place. Remove these screws and gently lift up and tip the platforms toward the front of the piano. Do not tug or try to force the instrument panels from the piano. Tilt the instrument platform on the floor and detach the wires leading to the solenoids. The unit is now clear of all encumbrances.

Top View Cymbal Platform  
26 1/2" x 7 3/4" x 1/2"



To access right platform, remove two screws at these locations

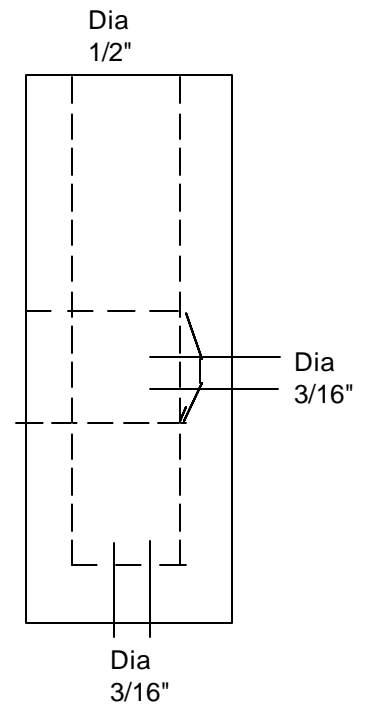
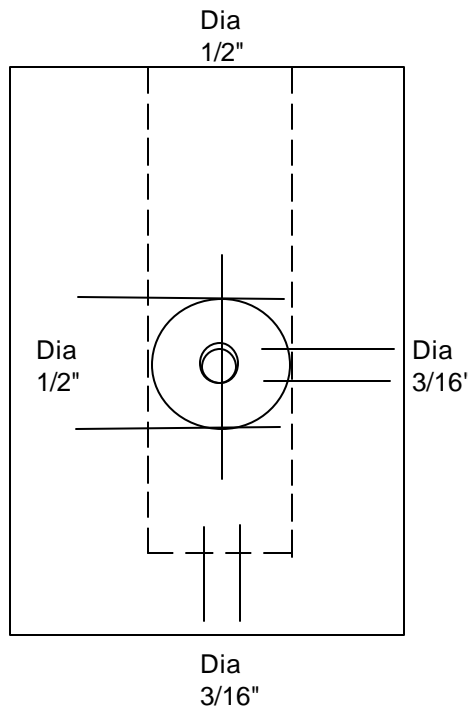


Top View Drum Platform  
23 1/2" x 7 3/4" x 1/2"

To access left platform, remove two screws at these locations

Spacer Wood Blocks for mounting lower instrument panels floor of piano.

Blocks  
1" x 2" x 2-3/4" 3/  
16" Thru 1/2  
6 Pcs per Nick  
Countersink



# Bottom Instrument Assembly Left

## Bass & Snare Drum Assembly

Bass Drum  
Cat. No. 70784

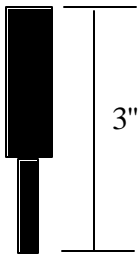
1-1/4" Ball  
drill 1/4" Hole  
Varnish  
Cat. No. 70791

Beater Stick  
6 3/4" x 1/4"OD  
Cat. No. 70777



Snare Drum  
Cat. No. 70796

Snare  
Cat. No. 70772  
Hidden from view



Plunger Length 3"  
exclusive of rubber tip

Left Metal Base  
Cat. No. 70844

5/8" Ball  
drill 1/4" Hole  
Varnish  
Cat. No. 70798

Jack Spring  
Schaff Piano  
#3776

Triple beaters  
Cat. No. 70789



Bass drum stick 6-3/4"

1-1/8" Ball drilled out with 1/4" hole. Hole depth 3/8"

# Snare Drum & Cymbal

## Snare Drum



### Attach Snare to Drum

Cut snare in 1/2 with shears

Bend end bracket perpendicular to wire strands.

Use two # 70116 to fasten to rim of drum.

Make sure wire strands are lying flat on inside of drum head.

### Snare stick 5-3/8"

5/8" Ball drilled out with 1/4" hole.

Hole depth 3/8"

Glue in place with Elmer's glue.

## Cymbal



### Cymbal

Cat# 70774

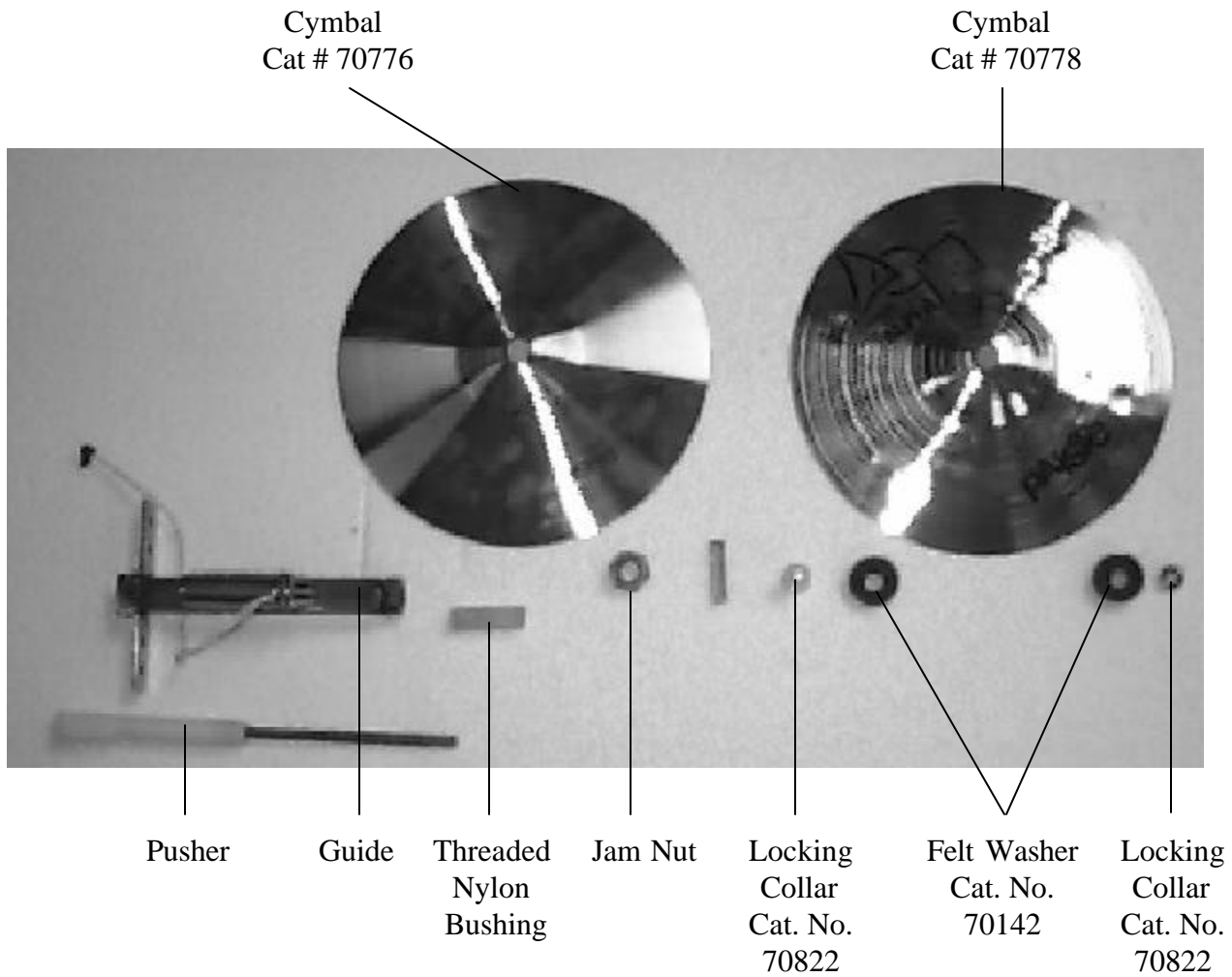
Single beater Housing Cat# 70781

(not shown)

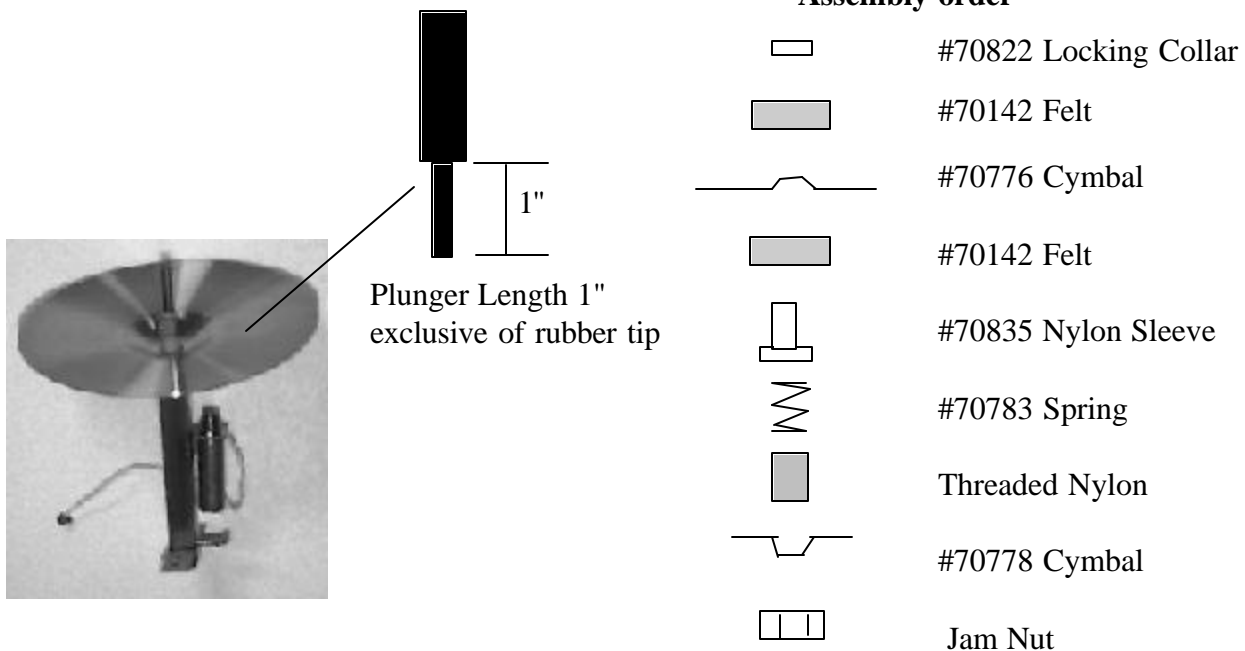
Mounting Post Cat# 70775

(not shown)

# Top Hat



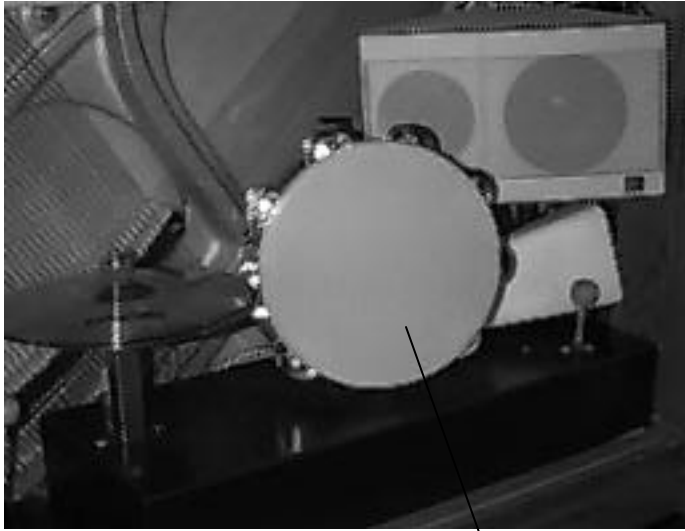
## Assembly order





# Bottom Instrument Assembly Left

## Tamborine Assembly



Tamborine  
Cat. No. 70768

Rubber Tip Here



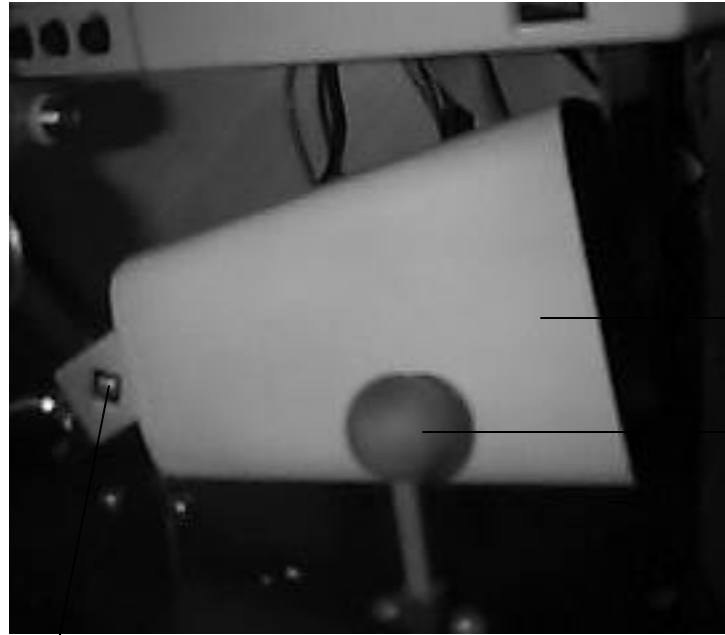
Back View

\*NOTE: Left bracket is  
different from right bracket -  
not matched pairs.

1/4" Nylon Washer  
Cat. #70832

1/4" Locking Collar  
Cat. #70822

# Cow Bell



Thumb  
screw  
secures  
cow bell

Cow Bell  
Cat. No.  
70764

Beater is  
positioned  
at 1/3  
distance  
from  
bottom of  
bell

# Speaker Installation

## Speaker

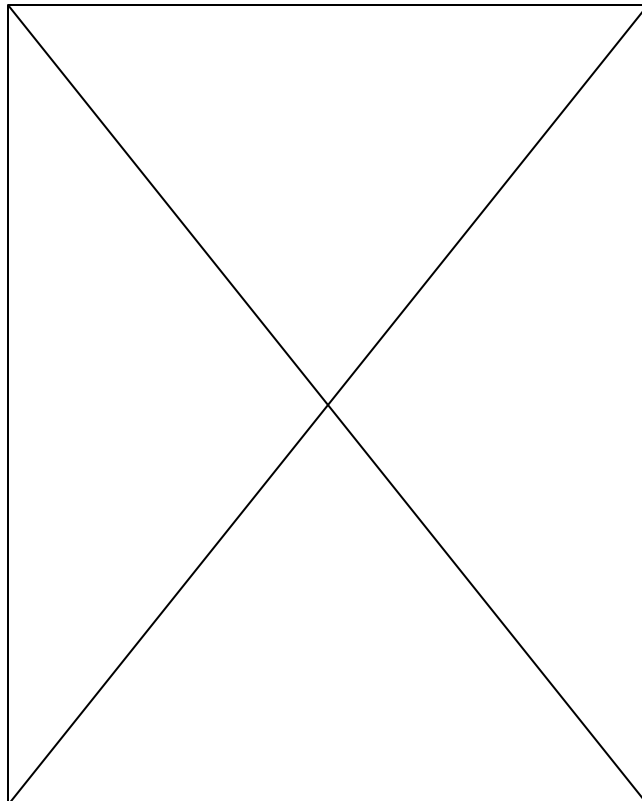


Refer to manufacturer's instructions for maintenance and servicing details of AR speaker.

Volume setting on this unit determines the upper volume at which the audio tracks can be played. User volume control is located adjacent to user box.

AR Speaker  
Cat. No. 70040

The diagram below shows the appropriate dimensions for mounting the speaker.

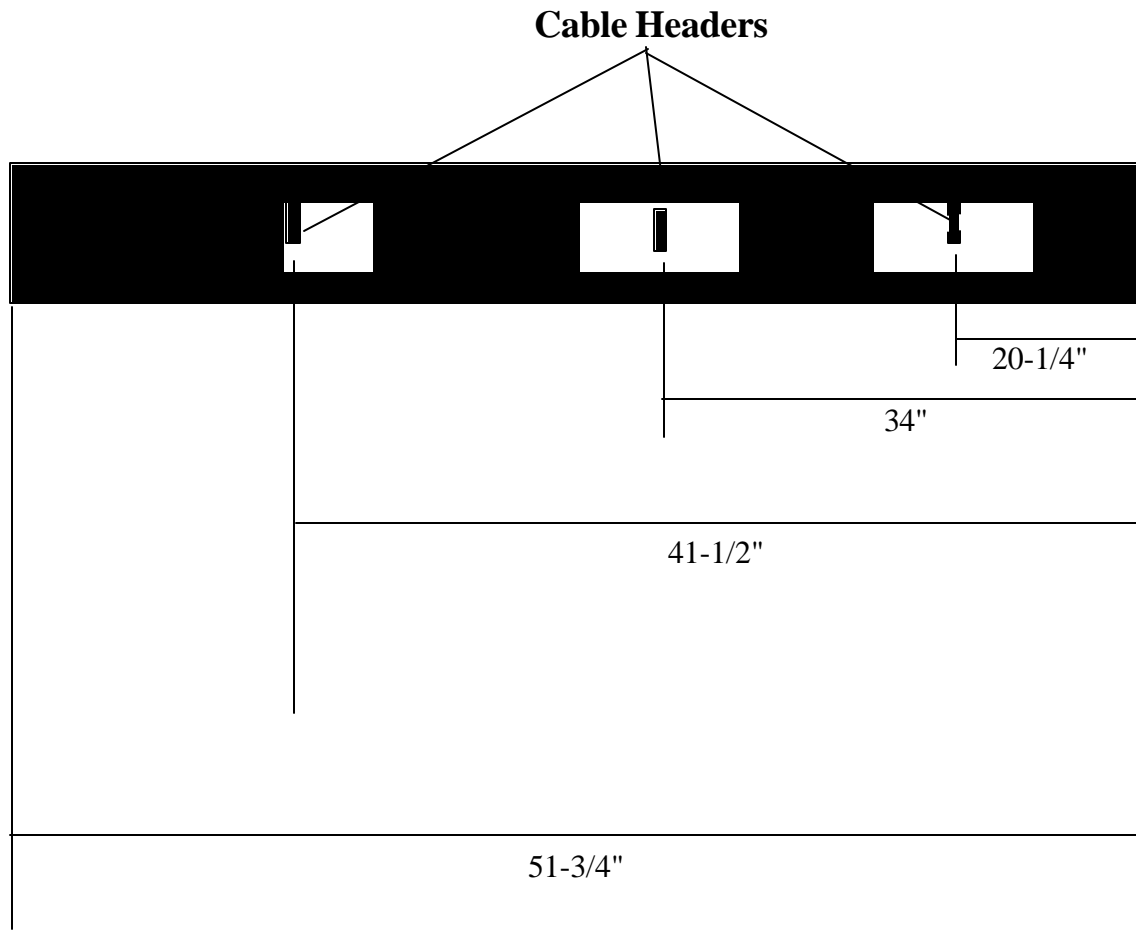


# Processor & Power supply

The power supply is mounted on the bottom floor of the piano on the right hand side. It is under the right platform. Cable connections face left.

The processor is mounted directly behind the power supply. It is mounted vertically with access to cables facing upward. The processor is held in place with Velcro to permit easy access and removal.

Note driver boards are situated under the xylophone. The position and spacing of these boards is important as the solenoid cables are of specific lengths and might not reach if the position of the note driver board is changed.



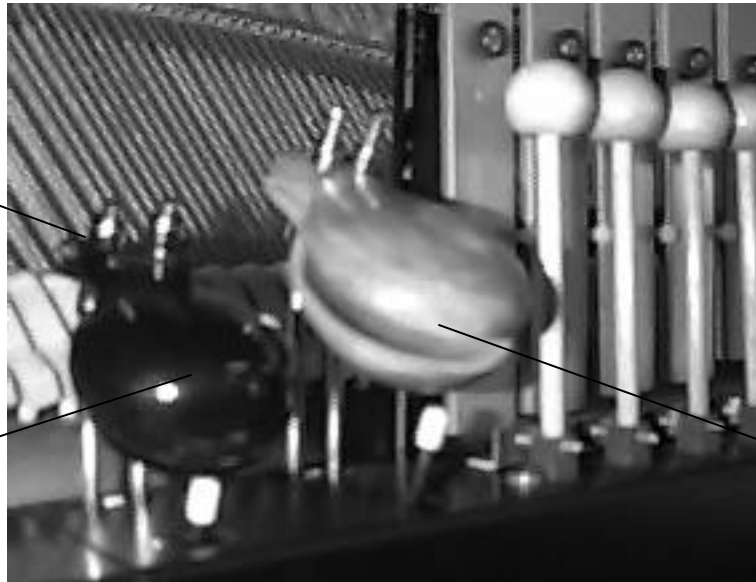
**Note Driver Board Placement**

# Top Shelf Castanets

Two diferent materials of construction are used to enhance the tonal quality of the nickelodeon.

Locking  
Collars  
Cat. No.  
70822

Bakelite  
Castanet  
Cat. No.  
70786



Wood  
Castanet  
Cat. No.  
70790

## Triangle



Triangle  
Cat. No.  
70770

# Top Shelf - Left Layout - Front View

## xylophone

Beater Ball  
Cat. No.  
70779

Xylophone

Beater Stick  
Cat. No.  
70777



Finger Jingle  
Cat. No. 70788

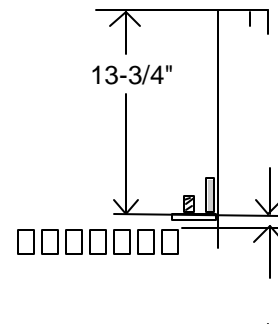
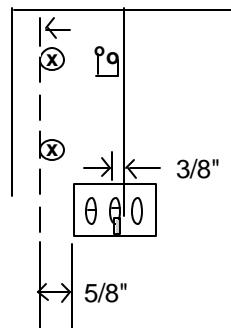
6" Triangle  
Cat. No. 70770

### Top Section Brackets and mousing of top instrument support rail

Locate brackets above backchecks  $1/4'' - 1/2''$ , approximately  $13-3/4''$  below top. This height puts the glockenspiel tops even with leaded glass line.

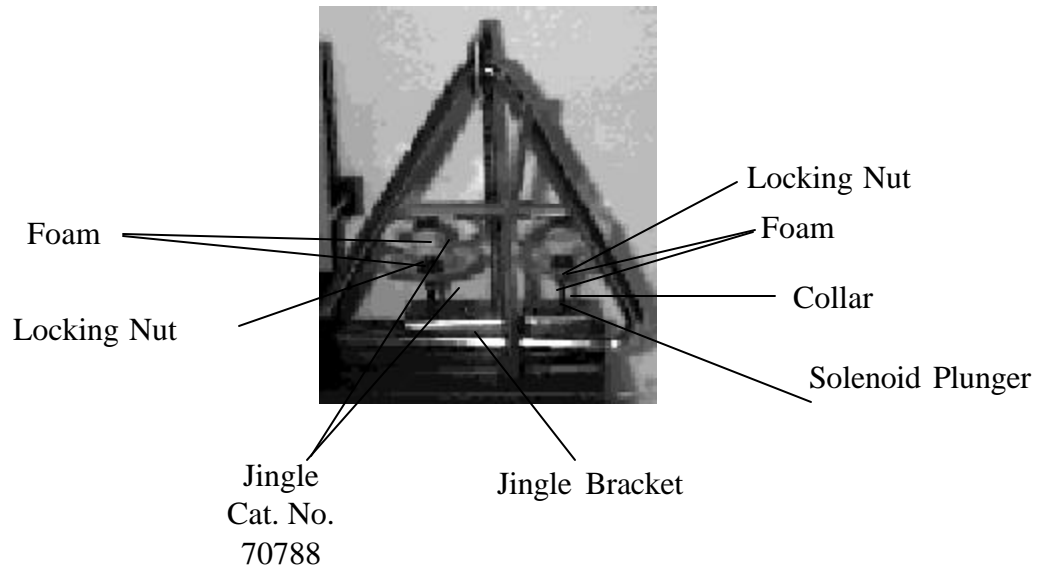
To remove entire top rail assembly, remove two screws located at far left and right of the support rail. Unplug solenoid cable.

Inside Front Panel

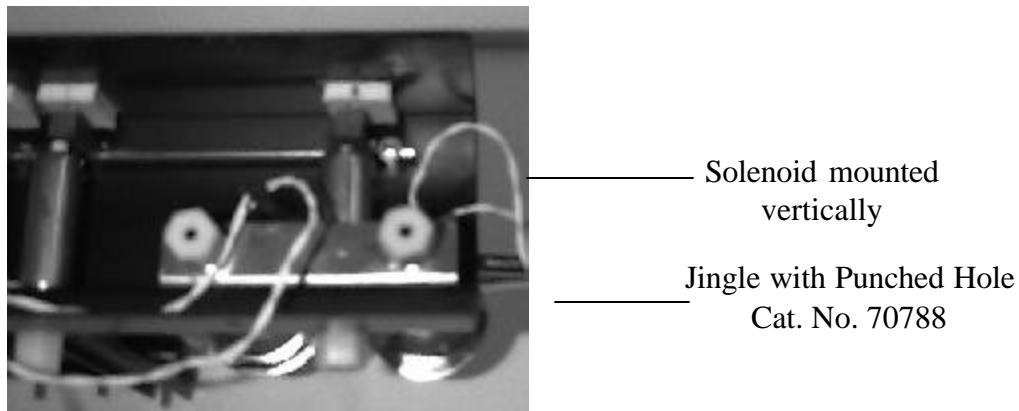


# Jingle Assembly Front View

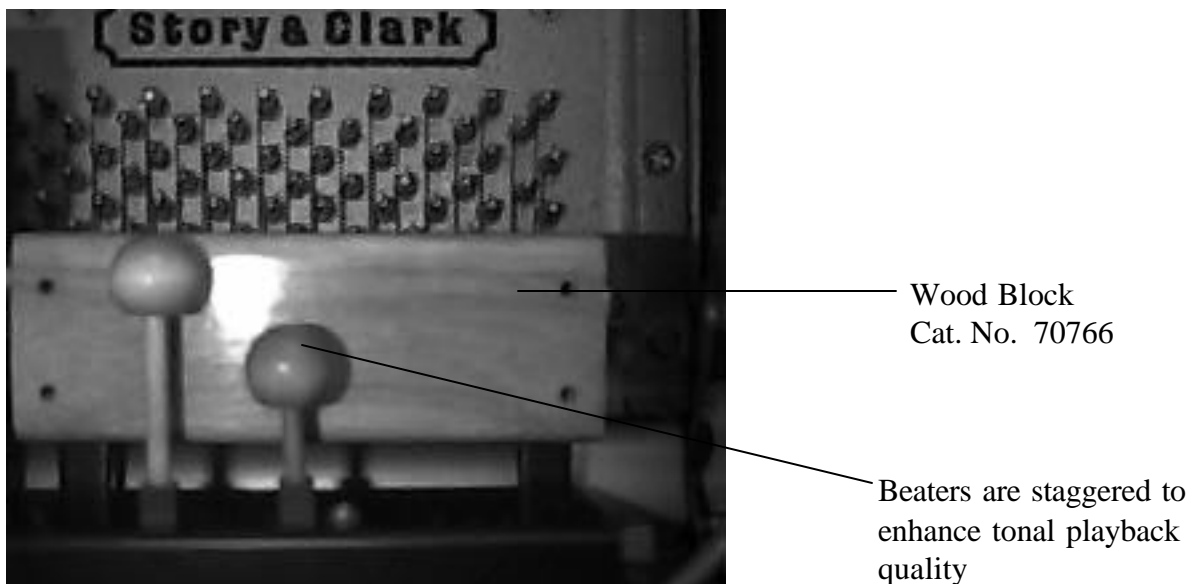
## Finger Jingles



## Jingle Assembly Bottom View



## Wood Block



# Instrument Assignments

## Driver Board #6

Conn.	Addr.
J1	x0
J2	x1
J3	x2
J4	x3
J5	x4
J6	x5
J7	x6
J8	x7
J9	x8
J10	x9
J11	xA
J12	xB
J13	xC
J14	xD
J15	xE
J16	xF

## Base Solenoid Address 5x

Notes
Wood Block Center
Wood Block Left
Xylophone A7
Xylophone G#7
Xylophone G7
Xylophone F#7
Xylophone F7
Xylophone E7
Xylophone D#7
Open
Finger Cymbals
Finger Cymbals
Bass Right
Bass Center
Bass Left
Tambourine

## Driver Board #7

Conn.	Addr.
J1	x0
J2	x1
J3	x2
J4	x3
J5	x4
J6	x5
J7	x6
J8	x7
J9	x8
J10	x9
J11	xA
J12	xB
J13	xC
J14	xD
J15	xE
J16	xF

## Base Solenoid Address 6x

Notes
Snare Right
Snare Center
Snare Left
Cow Bell
Crash Cymbal
Hi-Hat
Xylophone D7
Xylophone C#7
Xylophone C7
Xylophone B6
Xylophone A#6
Xylophone A6
Xylophone G#6
Xylophone G6
Xylophone F#6
Xylophone F6

## Driver Board #8 (1/2)

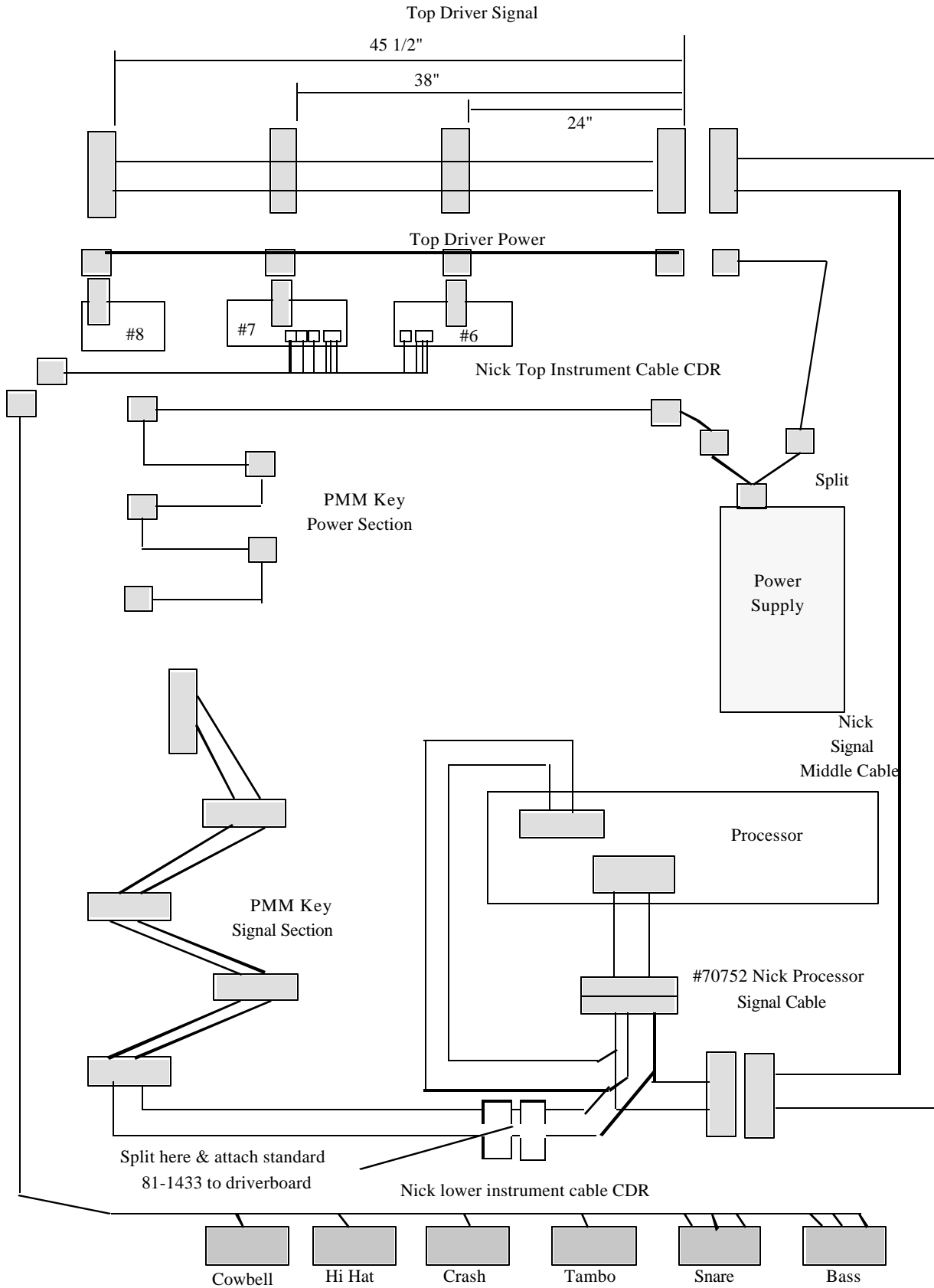
Conn.	Addr.
J1	x0
J2	x1
J3	x2
J4	x3
J5	x4
J6	x5
J7	x6
J8	x7

## Base Solenoid Address 7x

Notes
Xylophone E6
Xylophone D#6
Xylophone D6
Xylophone C#6
Xylophone C6
Xylophone B5 Castanets Right
Xylophone A#5 Castanets Left
Triangle



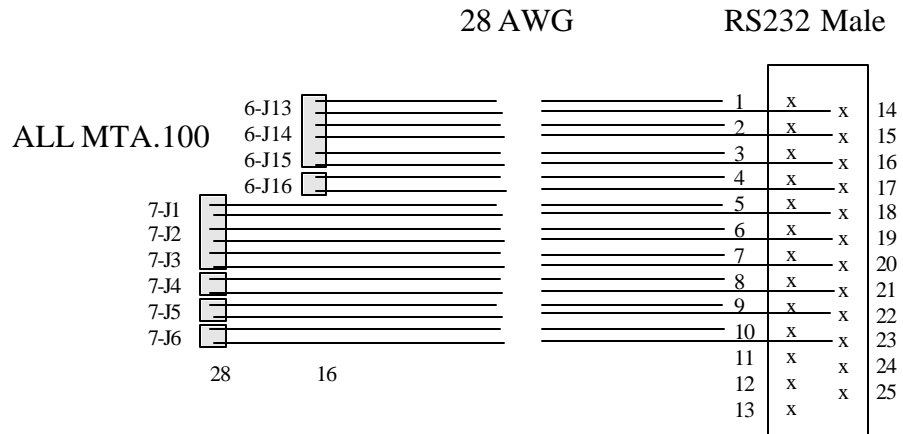
# Wiring



# Wiring

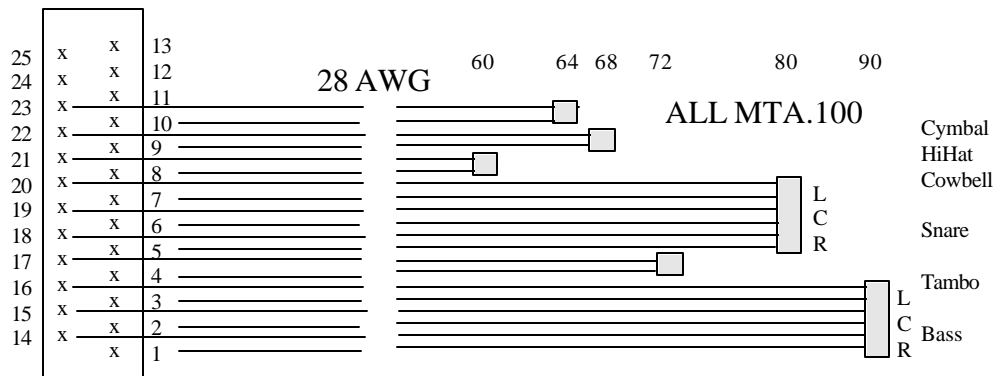
## Nickelodeon Top Cable

CAT# 70762



## Nickelodeon Lower Cable

RS232 Female



# Wiring

## Note Driver Board Assembly

