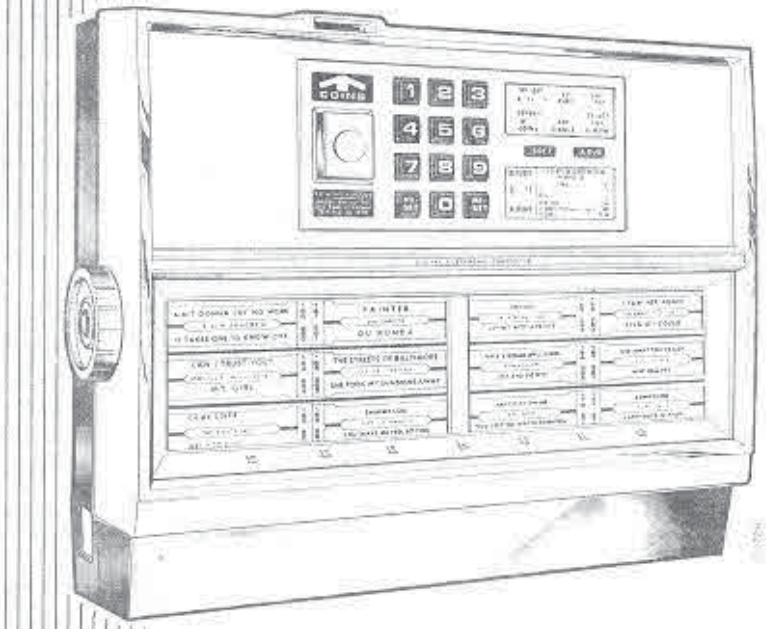
SEEBURG

DIGITAL ELECTRONIC CONSOLETTE,

Types DEC110 & DEC125



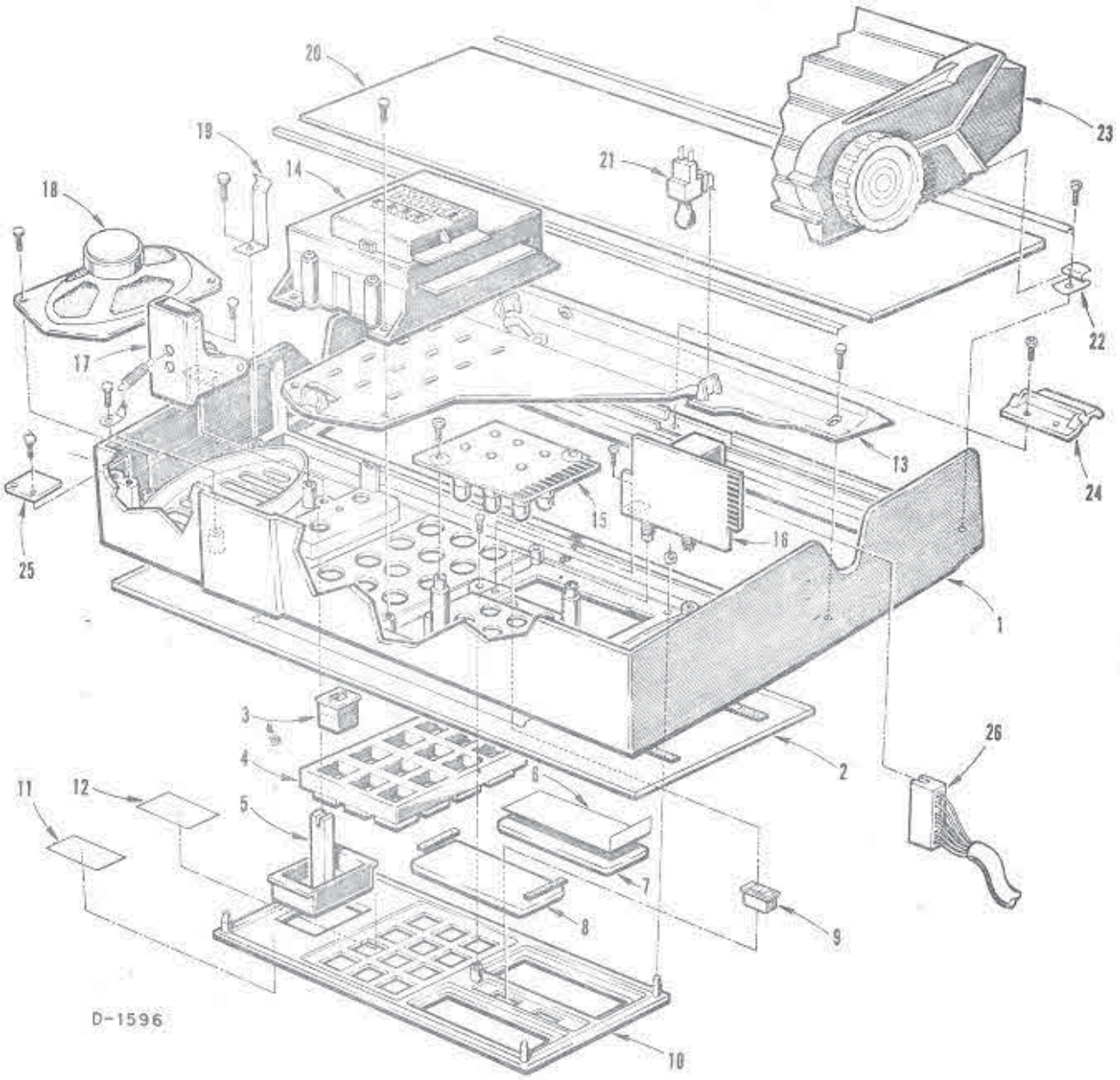
PARTS CATALOG

SEEBURG MICROLOG

THE
SEEBURG SALES CORPORATION
CHICAGO, ILLINOIS 60622 U.S.A.

CATALOG NO. 516005

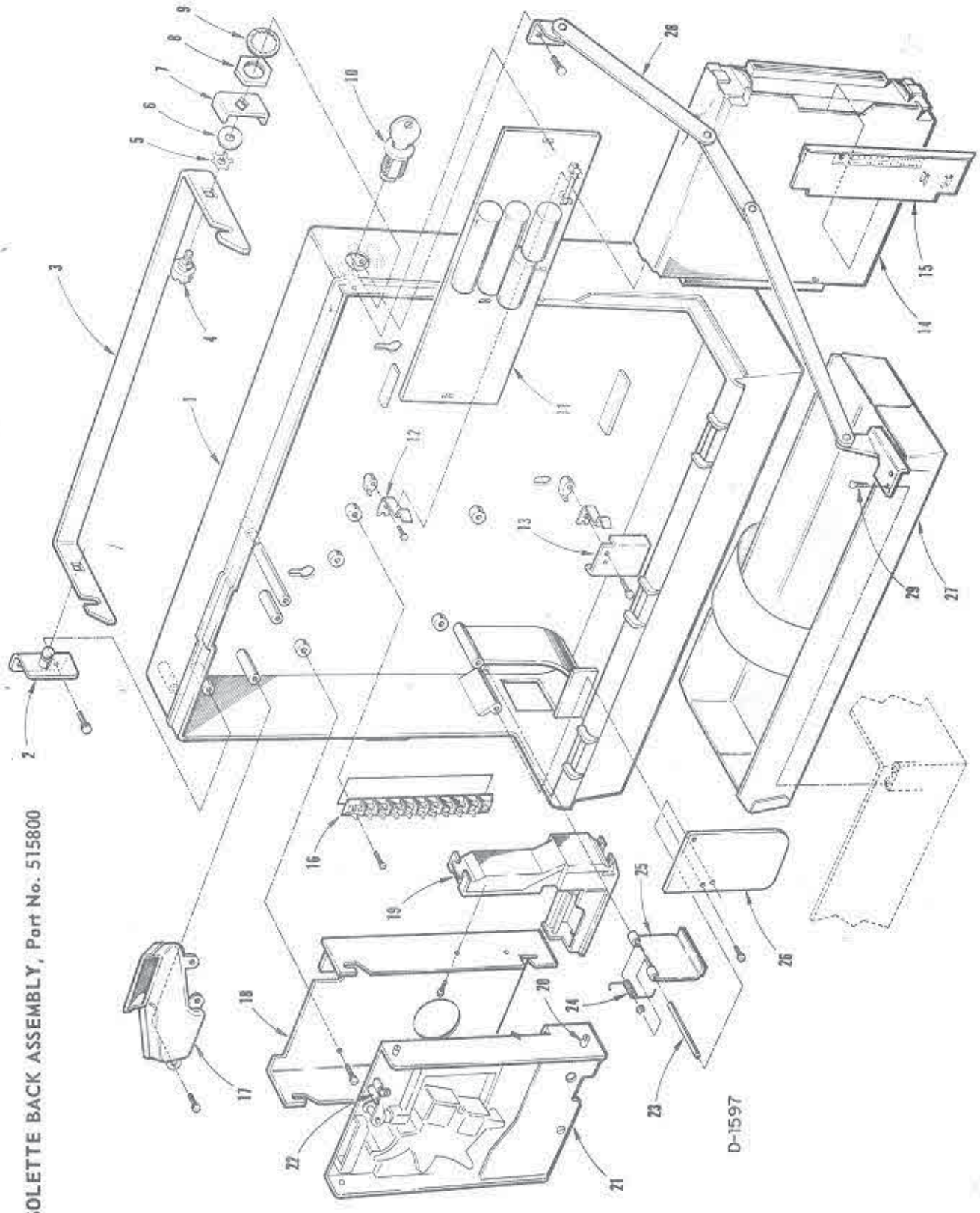
FRONT DOOR ASSEMBLY, Part No. 515830



PARTS LIST FOR FRONT DOOR ASSEMBLY, Part No. 515830

Item	Part No.	Description
* 1	515832	Finished Front Door
2	515747	Grille
	53419	1/8 Wide x 1/16 Adh. Ctd. Sponge Rubber
3	515845	Selector Buttons (Set of 12) (Staple Installed)
4	515740	Button Guide Block
5	515843	Scavenger Button
* 6	515718	Pricing Window (use with Type DEC125)
*	515720	Pricing Window (use with Type DEC110)
7	515844	Pricing Window Glass
* 8	515726	Credit Window
	53419	1/8 Wide x 1/16 Adhesive Ctd. Sponge Rubber
9	515746	Volume Control Buttons (Set of two)
10	515741	Finished Control Panel
	901450	5/32 Nut (4)
	960731	6-32 x 5/16 S.T. Screw
*11	515732	Coin Instruction Plate
*12	516006	Selection Instruction Plate
13	515862	Finished Program Light Guide
	961001	8-32 x 5/16 S.T. Screw
14	412000	Type DES1 Digital Electronic Selector
	961008	8-32 x 3/8 S.T. Screw
15	515852	Light Board Assembly
	318029	No. 1819 Lamp (6)
16	515835	Volume Control Assembly
	960355	4-40 x ¼ S.T. Screw
17	515846	Scavenger Arm Riveted Assembly
	411936	Spring
	961001	8-32 x 5/16 S.T. Screw
18	515865	Speaker (2)
	961001	8-32 x 5/16 S.T. Screw
19	515861	Program Retainer Clip
	960989	8-32 x 5/16 S.T. Screw
20	515859	Front Program Window
	515860	Window Extrusion
*21	515758	Lamp Holder (Part of item 26)
*	507522	No. 19 Lamp (Part of item 26)
22	515864	Program Retainer Clip (2)
	961001	8-32 x 5/16 S.T. Screw
*23	515760	Program Assembly
*24	515710	Hinge Cap (3)
*	960989	8-32 x 5/16 S.T. Screw
25	515833	Latch Plate
	961025	8-32 x ½ S.T. Screw
*26	515716	Cable Assembly (see Cable Assem. Illust.)

* Not part of this assembly.



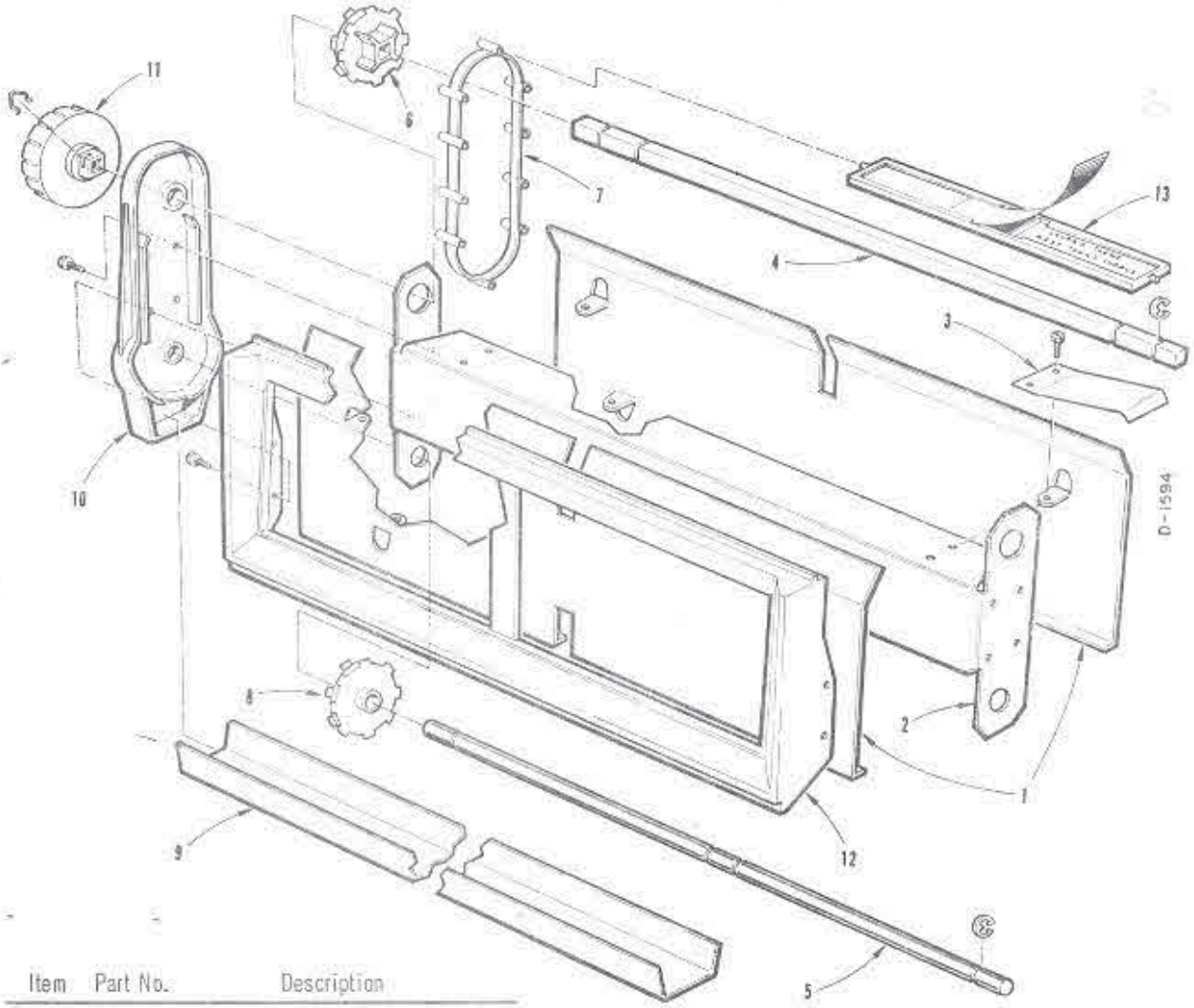
CONSOLETTE BACK ASSEMBLY, Port No. 515800

PARTS LIST FOR CONSOLETTE BACK ASSEMBLY, Part No. 515800

Item	Part No.	Description
1	515802	Finished Back Assembly
2	515816	Bracket & Stud Assembly
	961001	8-32 x 5/16 S.T.Screw
3	515815	Latch Bolt
4	515829	Shoulder Screw
5	924822	Spring Washer
6	922648	Flatwasher
7	515828	Latch Bolt Cam
8	905201	¾-32 Nut
9	925845	Lockwasher
10	515756	Lock Barrel, Plug & Key Assem.
*11	311110	Digital Consolette Interface Board Assembly
*	515290	4/10 Amp. Slo Blo Fuse
12	515819	Transmitter Mtg. Spring (4)
	961001	8-32 x 5/16 S.T. Screw
13	515782	Cable Clamp
	961001	8-32 x 5/16 S.T. Screw
*14	311000	Type "DTP1" Digital Transmitter & Pricing Unit
*15	310103	Pricing Board (0-2-5-14), for Type DEC125
*	310101	Pricing Board (1-3-6-15), for Type DEC110
16	515755	Terminal Strip
	515814	Terminal Strip Label
	961025	8-32 x ½ S.T. Screw
17	515744	Coin Chute
	515745	Coin Chute Cover
	961001	8-32 x 5/16 S.T. Screw
18	515875	Slug Rejector Mtg. Frame
	961001	8-32 x 5/16 S.T. Screw
19	421281	Coin Switch Assembly
	960277	No. 4 x ¼ S.T. Screw
*20	401255	Slug Rejector Mtg. Stud
*21	515687	Slug Rejector (C.A.)
*	189784	Slug Rejector (N.R.I.)
*22	507378	Ejector Lever Extension
23	515811	Pivot Pin
24	757811	Spring
25	506346	Coin Return Door
26	515812	Return Cup Plate
	961001	8-32 x 5/16 S.T. Screw
*27	515717	Cash Box Riveted Assembly
*28	515712	Door Support Riveted Assembly
*	961001	8-32 x 5/16 S.T. Screw (2)
*29	961025	8-32 x ½ S.T. Screw (2)

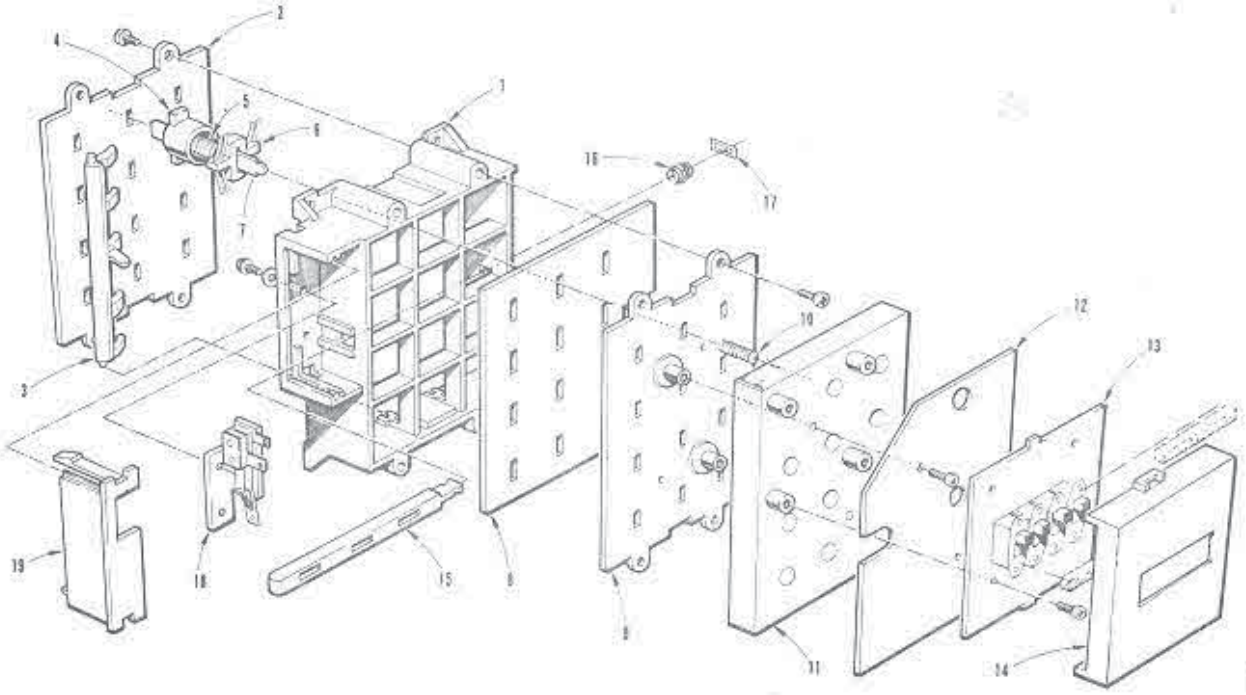
* Not Part of This Assembly.

PROGRAM ASSEMBLY, Part No. 515760



Item	Part No.	Description
1	515767	Frame Cover
	960737	6-32 x 3/8 T.F. Screw
2	515765	Frame
3	515766	Detent Spring
	960737	6-32 x 3/8 T.F. Screw
4	515771	Drive Shaft
	301367	Retaining Ring (4 used)
5	515770	Idler Shaft
	301367	Retaining Ring (4 used)
6	515774	Drive Pulley (3 used)
7	515738	Drive Belt (3 used)
8	515773	Idler Pulley (3 used)
9	515768	Program Guard
10	515766	End Guide (2 used)
	960737	6-32 x 3/8 T.F. Screw
11	515776	Knob (2 used)
	515777	Retaining Clip (2 used)
12	515743	Program Window Frame
	960737	6-32 x 3/8 T.F. Screw
13	515748	Title Strip Holder (20 used)
	515775	Title Number Strip (set of 40)

DIGITAL ELECTRONIC SELECTOR, Type DES1, Part No. 412000

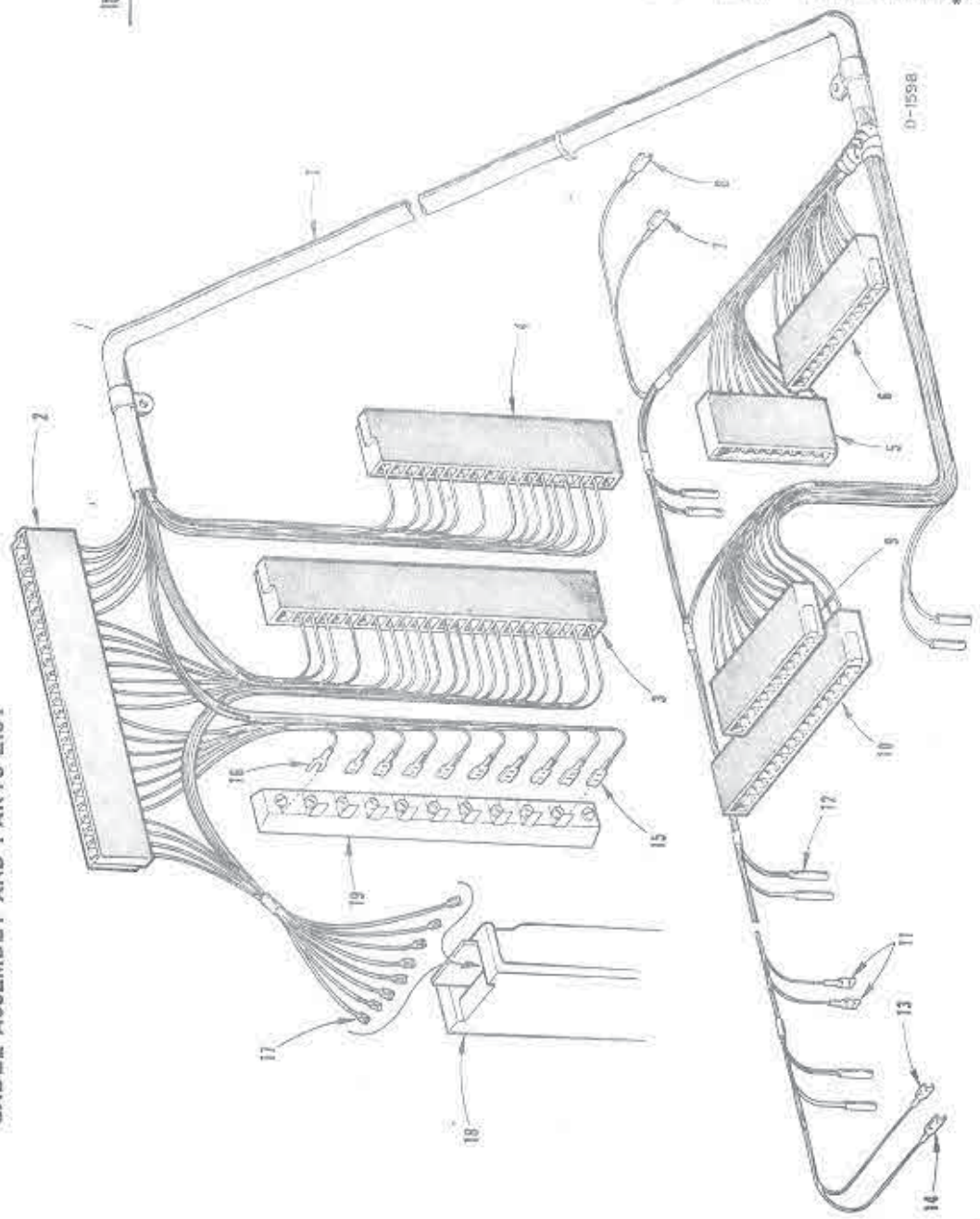


Item	Part No.	Description
1	412017	Switch Main Frame
2	412028	Guide Plate
	960629	No. 6 x 5/16 S.T. Screw
3	412027	Treadle Bar
4	412022	Treadle Actuator
	412023	Actuator Retainer
5	412021	Overload Spring
6	412019	Contact Assembly
7	412018	Stem
8	412014	Printed Contact Board
9	412012	Guide Plate Welded Assembly
	960629	No. 6 x 5/16 S.T. Screw
10	412011	Stem Spring
11	412010	Stem Spring Holder
12	412041	Back Plate
	913176	6-32 x 3/8 M. Screw
13	412031	Switch & Circuit Board Assembly
	412035	Switch
	309481	Diode
	421313	Pad
	960629	No. 6 x 5/16 S.T. Screw
14	412039	Rear Switch Cover
	412040	Switch Label
15	412024	Switch Actuator
16	412025	Actuator Spring
17	400864	Retainer
18	412042	Switch & Bracket Assembly
	912897	6-32 x 3/16 M. Screw
	920630	Flatwasher
19	412038	Trigger Switch Cover

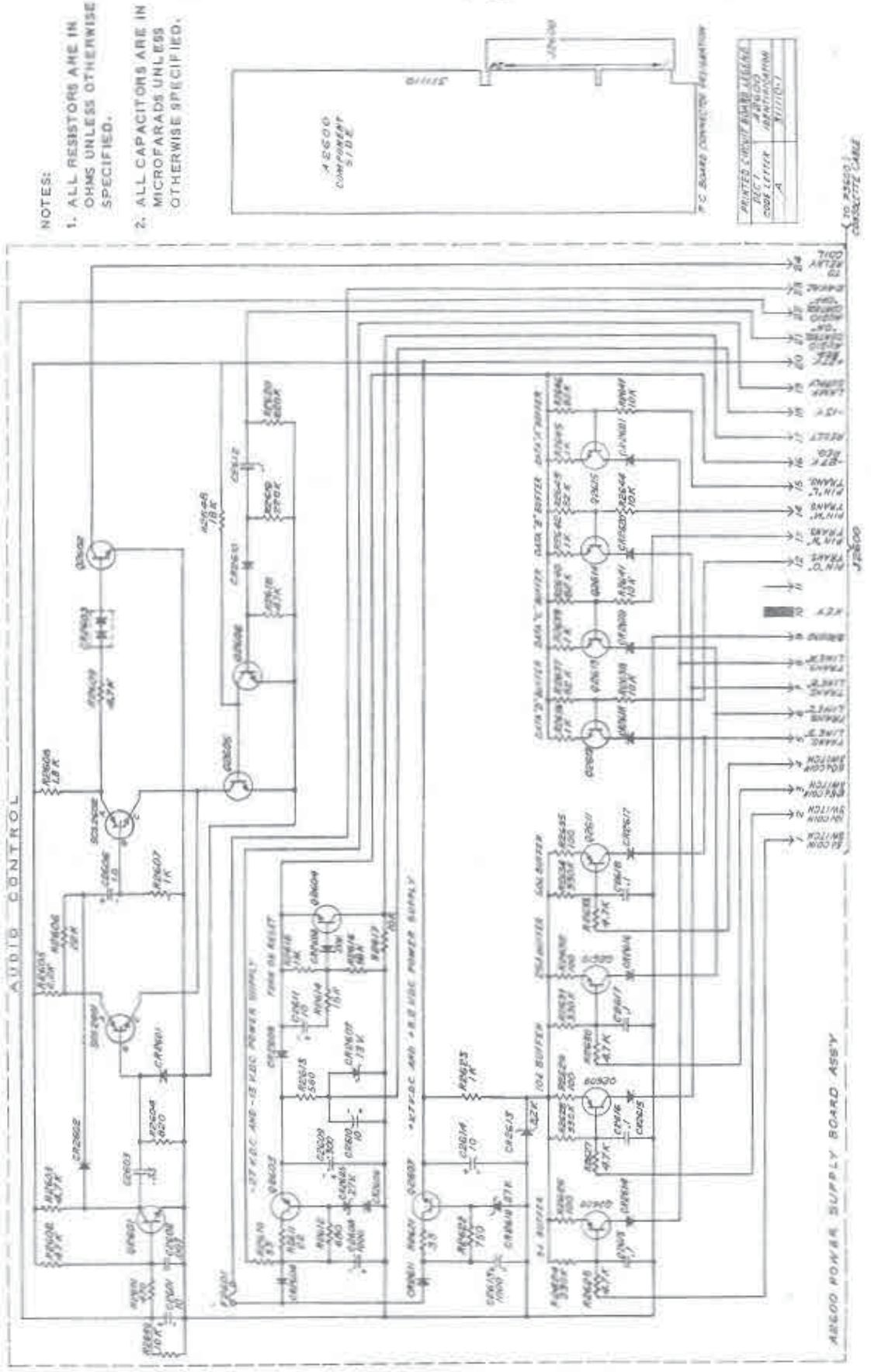
CABLE ASSEMBLY AND PARTS LIST

Item	Part No.	Description
1	515716	Cable Assembly
2	309634	24 Contact Edge Connector
	941854	Contact
	941874	Edge Connector Key
3	309634	24 Contact Edge Connector
	941854	Contact
	941874	Edge Connector Key
4	309632	18 Contact Edge Connector
	941854	Contact
5	318100	9 Contact Edge Connector
	941854	Contact
6	309631	12 Contact Edge Connector
	941854	Contact
7	941785	Receptacle
8	132053	Receptacle
9	309631	12 Contact Edge Connector
	941854	Contact
10	309632	18 Contact Edge Connector
	941854	Contact
11	132053	Receptacle
12	941855	Receptacle
	521101	Sleeving
13	941785	Receptacle
14	132053	Receptacle
15	941785	Receptacle
16	941787	Spade Lug
17	941843	Receptacle
*18	—	Coin Switch
*19	—	Terminal Board

* Not part of this assembly.



CONSOLETTE POWER SUPPLY SCHEMATIC



PARTS LIST FOR CONSOLETTE POWER SUPPLY

Item	Part No.	Description
A2600	311110	Power Supply Board Assembly
C2601	87697	10, 6 V. Lytic
C2602	86278	.003, 500 V., Ceramic
C2603	86328	.33, 50 V., Mylar
C2604		
C2605		
C2606	87760	300, 35 V., Lytic
C2607		
C2608	87743	10, 35 V., Lytic
C2609	86334	.1, 50 V., Mylar
C2610	87759	1 K, 50 V., Lytic
C2611	87743	10, 35 V., Lytic
C2612	86334	.1, 50 V., Mylar
C2613	86334	.1, 50 V., Mylar
C2614	86334	.1, 50 V., Mylar
C2615	86334	.1, 50 V., Mylar
CR2601	309481	Silicon Diode, 40 PIV
CR2602	309481	Silicon Diode 40 PIV
CR2603	309478	Silicon Stabistor
CR2604	309476	Silicon Rectifier 100 PIV, 1A
CR2605	309611	27 V. Zener Diode, 1 W., 5%
CR2606	309384	Silicon Diode 170 PIV
CR2607	309488	13 V. Zener Diode, 400 MW, 5%
CR2608	309384	Silicon Diode 170 PIV
CR2609	309487	20 V. Zener Diode, 400 MW, 10%
CR2610	309481	Silicon Diode, 40 PIV
CR2611	309476	Silicon Rectifier, 100 PIV, 1 A
CR2612	309611	27 V. Zener Diode, 1 W., 5%
CR2613	309612	8.2 V. Zener Diode, 400 MW, 10%
CR2614	309481	Silicon Diode, 40 PIV
CR2615		
CR2616		
CR2617		
CR2618		
CR2619		
CR2620		
CR2621		

Item	Part No.	Description
F2601	602223	⅛ Amp. Fuse
J2600		P.C. Board (A2601)
Q2601	309447	NPN
Q2602		
Q2603	309457	PNP
Q2604	309447	NPN
Q2605		
Q2606		
Q2607	309459	NPN
Q2608	309460	PNP
Q2609		
Q2610		
Q2611		
Q2612	309447	NPN
Q2613		
Q2614		
Q2615		
R2601	82420	470
R2602	82444	47 K
R2603	82432	4,700
R2604	82423	820
R2605	82428	2,200
R2606	82440	22 K
R2607	82424	1 K
R2608	82427	1,800
R2609	82432	4,700
R2610	81290	33, W.W., 2 W.
R2611	81230	22, W.W., 2 W.
R2612	82422	680
R2613	81280	560, W.W., 2 W.
R2614	82438	15 K
R2615	82460	1 Meg.
R2616	82445	56 K
R2617	82436	10 K
R2618	82444	47 K
R2619	82452	220 K

Item	Part No.	Description
R2620	82452	220 K
R2621	81290	33, W.W., 2 W.
R2622	82161	750, 5%
R2623	81262	1 K, W.W., 2 W.
R2624	82454	330 K
R2625	82432	4,700
R2626	82412	100
R2627	82432	4,700
R2628	82454	330 K
R2629	82412	100
R2630	82432	4,700
R2631	82454	330 K
R2632	82412	100
R2633	82432	4,700
R2634	82454	330 K
R2635	82412	100
R2636	82424	1 K
R2637	82447	82 K
R2638	82436	10 K
R2639	82424	1 K
R2640	82447	82 K
R2641	82436	10 K
R2642	82424	1 K
R2643	82447	82 K
R2644	82436	10 K
R2645	82424	1 K
R2646	82447	82 K
R2647	82436	10 K
R2648	82439	18 K
R2649	82436	10 K
SCS2601	309510	Reverse Blocking Thyristor
SCS2602		

NOTES: 1. Unless otherwise specified all resistors are in ohms, ½ watt and 10%.

2. Unless otherwise specified all capacitors are in microfarads.

PARTS LIST FOR CONSOLETTE FRONT DOOR ASSEMBLY AND BACK ASSEMBLY

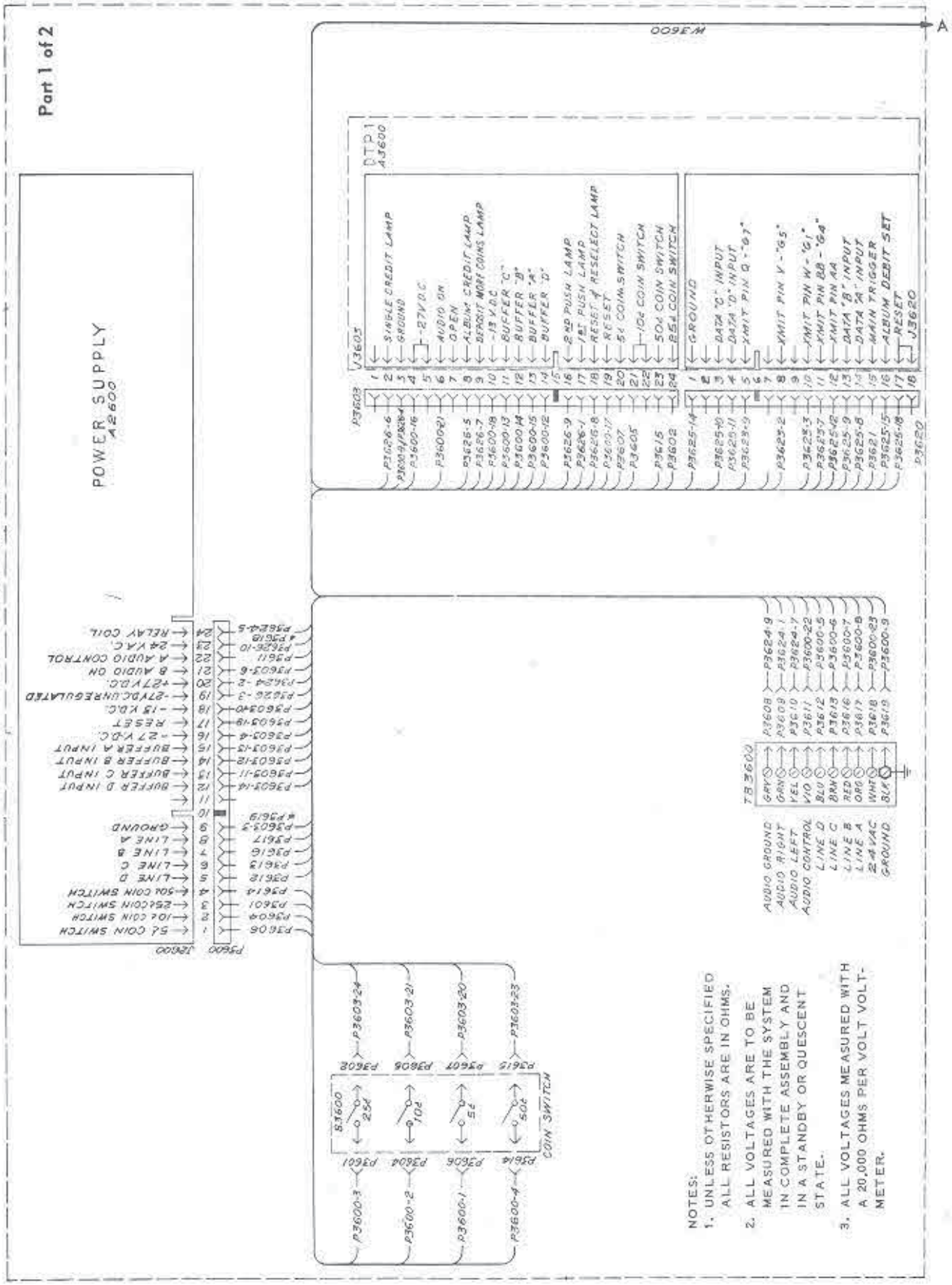
Item	Part No.	Description
A2600	311110	Power Supply
A3600	311000	"DTP1" Digital Transmitter & Pricing
A3601	412000	"DES1" Digital Electronic Switch
A3602	515835	Volume Control Assembly
A3603	515852	Light Board Assembly
CR3600	309384	Silicon Diode
I3600	507522	No. 19 Lamp
I3601	507522	No. 19 Lamp
I3602	507522	No. 19 Lamp
I3603	318029	No. 1819 Lamp
I3604	318029	No. 1819 Lamp
I3605	318029	No. 1819 Lamp
I3606	318029	No. 1819 Lamp
I3607	318029	No. 1819 Lamp
I3608	318029	No. 1819 Lamp
I3609	507522	No. 19 Lamp
K3600	515842	D.C. Relay
LS3600	515865	Speaker
LS3601	515865	Speaker
R3600	81255	15 W.W. 2 W.
R3601	81234	220 W.W. 2 W.
R3602	82406	33
R3603	82406	33
R3604	81255	15 W.W. 2 W.
R3605	81234	220 W.W. 2 W.
R3606	82412	100
to		
R3611	82412	100
R3612	81235	56 W.W. 2 W.
R3613	81235	56 W.W. 2 W.
S3600	421281	Coin Switch Assembly
S3601	515840	Switch Assembly
S3602	515840	Switch Assembly
TB3600	515755	Terminal Strip
W3600	515716	Cable Assembly

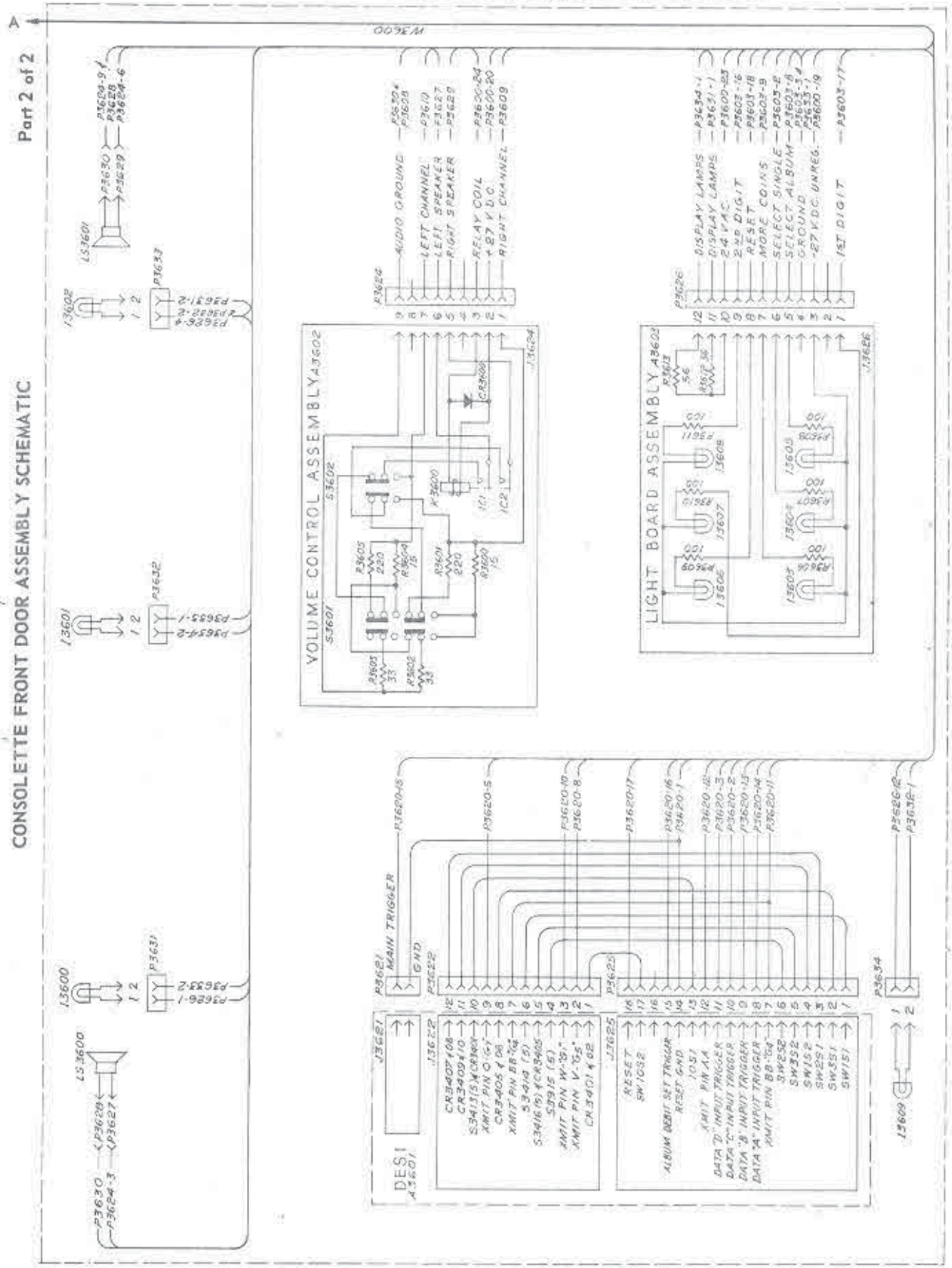
NOTE 1: Unless otherwise specified all resistors are in ohms, ½ watt and 10%

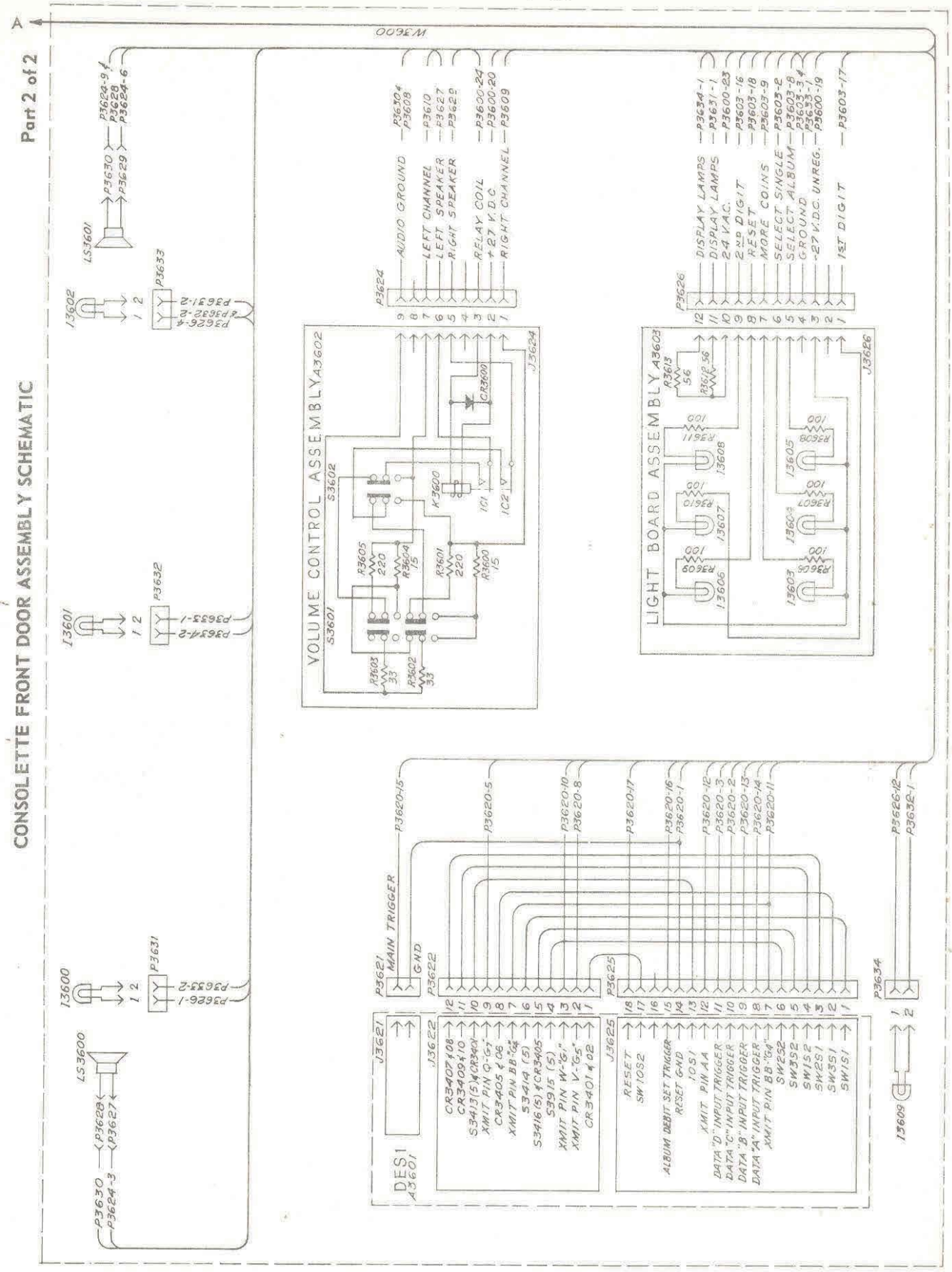
NOTE 2: Unless otherwise specified all capacitors are in microfarads.

CONSOLETTE BACK ASSEMBLY SCHEMATIC

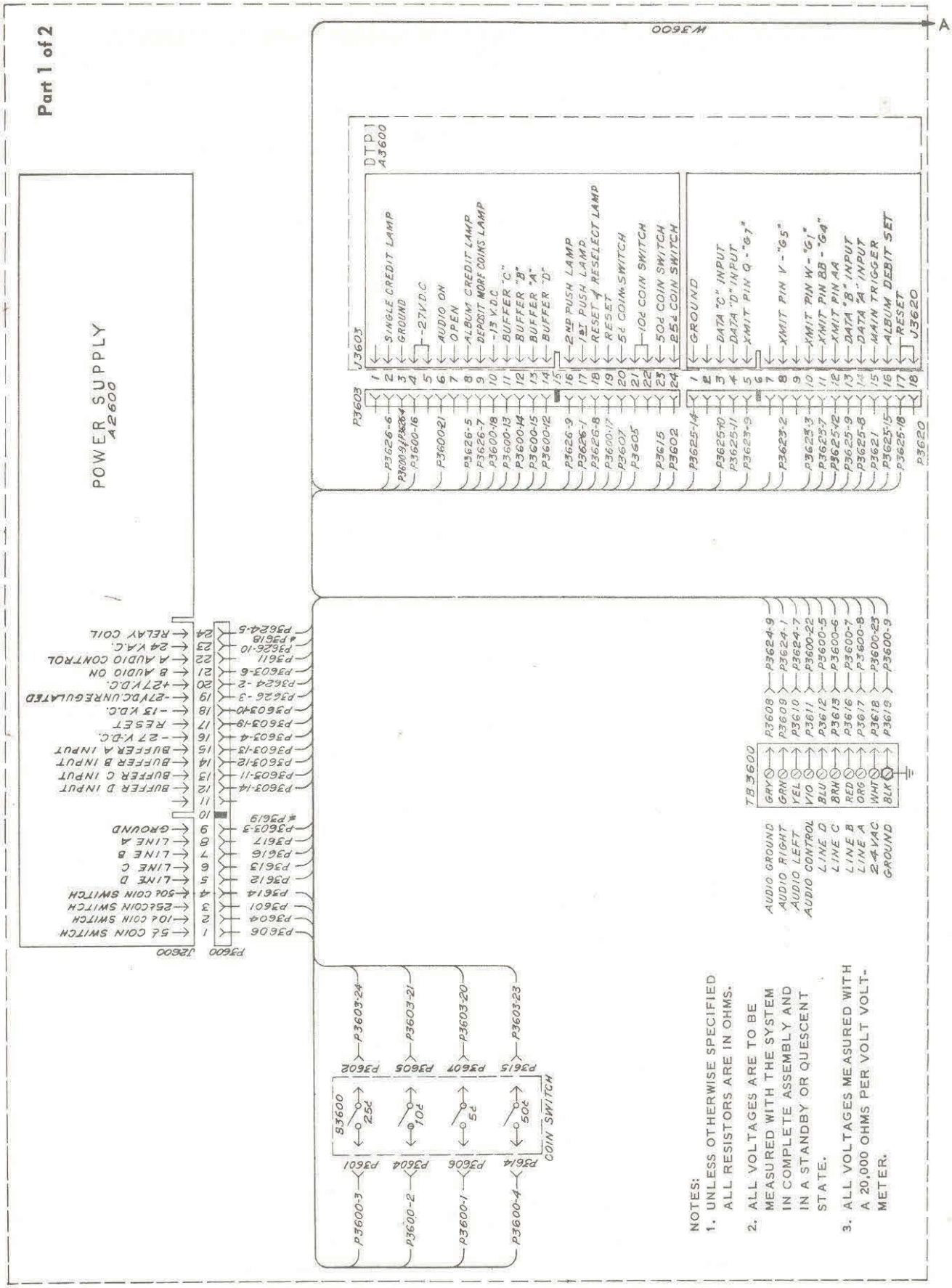
Part 1 of 2



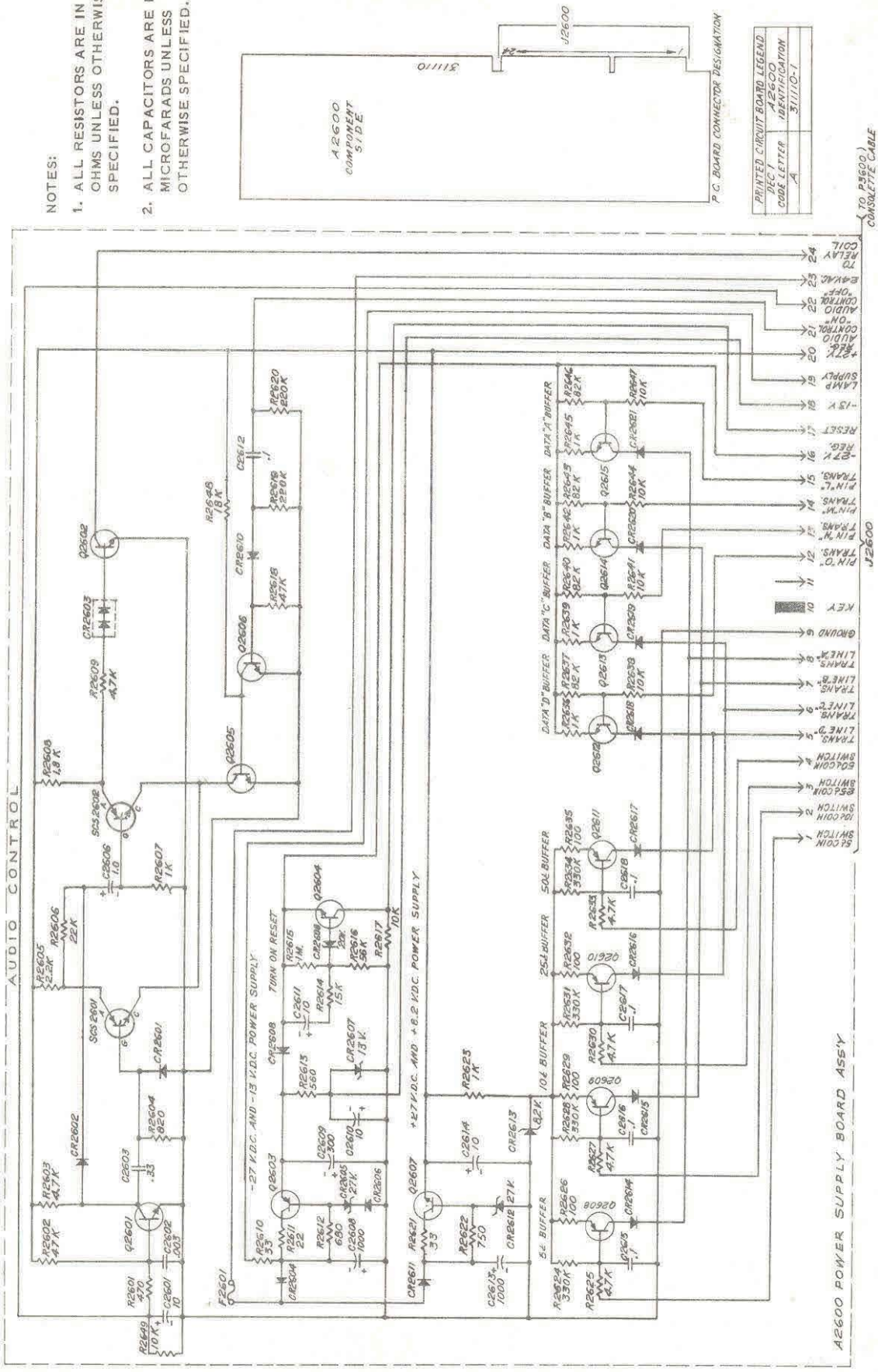

CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC
Part 2 of 2
A
W3600
LS3601
LS3600
J3602
J3601
J3600
P3633
P3632
P3631
P3630
P3629
P3628
P3627
P3626-4
P3624-9
P3624-6
P3624-3
P3633-2
P3633-1
P3632-2
P3631-2
P3626-1
VOLUME CONTROL ASSEMBLY A3602
S3602
S3601
R3605 220
R3604 15
R3601 220
R3600 15
R3605 33
R3602 33
X3600
IC1
IC2
CR3600
J3624
P3624
AUDIO GROUND
LEFT CHANNEL
LEFT SPEAKER
RIGHT SPEAKER
RELAY COIL
+27 V.D.C.
RIGHT CHANNEL
P3610
P3627
P3626-24
P3620-20
P3609
LIGHT BOARD ASSEMBLY A3602
P3626
J3626
R3613 56
R3612 36
R3611 .001
R3610 .001
R3609 .001
R3608 .001
R3607 .001
R3606 .001
I3608
I3607
I3606
I3609
I3604
I3605
DISPLAY LAMPS
DISPLAY LAMPS
24 VAC
2ND DIGIT
RESET
MORE COINS
SELECT SINGLE
SELECT ALBUM
GROUND
-27 V.D.C. UNREG.
1ST DIGIT
P3634-1
P3631-1
P3603-23
P3602-16
P3603-8
P3602-8
P3603-6
P3603-14
P3633-1
P3600-9
P3603-17
P3603
DESI A3601
J3621
J3622
J3625
P3621
P3622
P3625
MAIN TRIGGER
GND
P3620-15
P3620-5
P3620-10
P3620-8
P3620-17
P3620-16
P3620-1
P3620-12
P3620-3
P3620-2
P3620-13
P3620-14
P3620-11
P3620-6
P3620-18
P3634
P3626-12
P3636-1
I3609
CR3403 #08
CR3409 #10
S3415 (W CR3409)
XMIT PIN Q-15
CR3405 #06
XMIT PIN BB-14
S3414 (S)
S3416 (S) #CR3405
S3415 (S)
XMIT PIN W-15
XMIT PIN V-15
CR3401 #02
RESET
SW1S2
ALBUM DEBIT SET TRIGGER
RESET GND
105
XMIT PIN AA
DATA "D" INPUT TRIGGER
DATA "C" INPUT TRIGGER
DATA "B" INPUT TRIGGER
DATA "A" INPUT TRIGGER
XMIT PIN BB-14
SW2S2
SW3S2
SW2S1
SW3S1
SW1S1


CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC
Part 2 of 2
A
W3600
LS3601
P3630
P3629
P3624-9
P3628
P3624-6
J3602
P3633
P3631-2
P3632-2
P3626-4
J3601
P3632
P3633-1
P3634-2
J3600
P3631
P3633-2
P3626-1
LS3600
P3630
P3624-3
P3628
P3627
P3624
AUDIO GROUND
LEFT CHANNEL
LEFT SPEAKER
RIGHT SPEAKER
RELAY COIL
+27 V.D.C.
RIGHT CHANNEL
P3630-4
P3608
P3610
P3627
P3629
P3600-24
P3600-20
P3609
VOLUME CONTROL ASSEMBLY A3602
S3602
S3601
R3605 220
R3604 15
R3601 220
R3600 15
R3603 33
R3602 33
K3600
CR3600
IC1
IC2
J3624
P3626
DISPLAY LAMPS
DISPLAY LAMPS
24 V.A.C.
2ND DIGIT
RESET
MORE COINS
SELECT SINGLE
SELECT ALBUM
GROUND
-27 V.D.C. UNREG.
1ST DIGIT
P3634-1
P3631-1
P3600-23
P3603-16
P3603-18
P3603-9
P3603-2
P3603-8
P3603-3
P3633-1
P3600-19
P3603-17
LIGHT BOARD ASSEMBLY A3603
R3613 56
R3612 56
R3611 100
R3610 100
R3609 100
R3608 100
R3607 100
R3606 100
J3626
P3620-15
P3620-5
P3620-10
P3620-8
P3620-17
P3620-16
P3620-1
P3620-12
P3620-3
P3620-2
P3620-13
P3620-14
P3620-11
P3621
MAIN TRIGGER
GND
P3622
P3625
P3626-12
P3632-1
P3634
J3621
J3622
J3625
DES1 A3601
CR3407 ¢08
CR3409 ¢10
S3413(5) ¢CR3409
XMIT PIN Q-G7
CR3405 ¢06
XMIT PIN BB "G4"
S3414 (5)
S3416(6) ¢CR3405
S3915 (5)
XMIT PIN W-"G6"
XMIT PIN V-"G5"
CR3401 ¢02
RESET
SW1092
ALBUM DEBIT SET TRIGGER
RESET GND
105I
XMIT PIN AA
DATA "D" INPUT TRIGGER
DATA "C" INPUT TRIGGER
DATA "B" INPUT TRIGGER
DATA "A" INPUT TRIGGER
XMIT PIN BB "G4"
SW2S2
SW1S2
SW2S1
SW1S1
SW3S1
SW1S1
J3613
13609

CONSOLETTE BACK ASSEMBLY SCHEMATIC



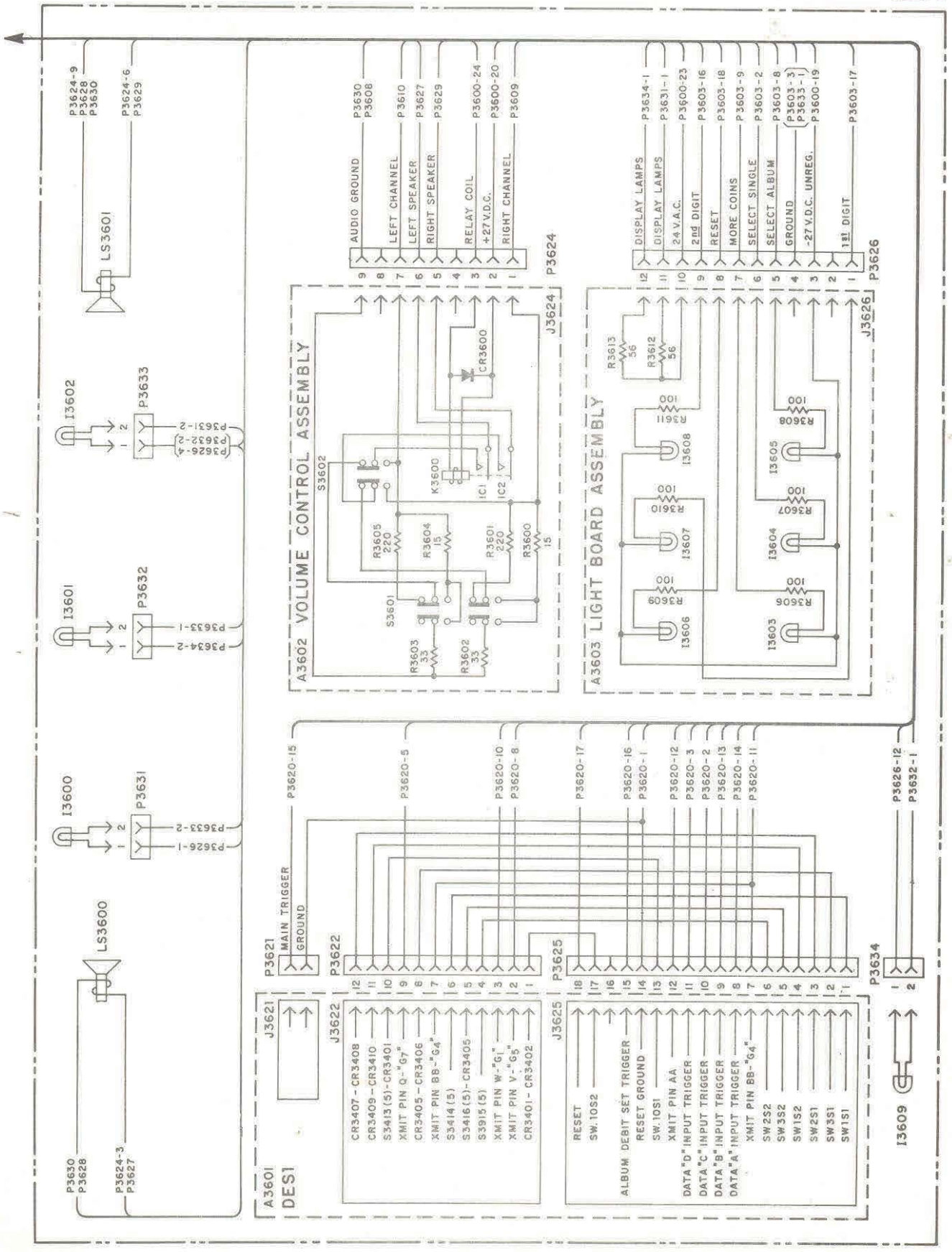
CONSOLETTE POWER SUPPLY SCHEMATIC



Part 2 of 2

CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC

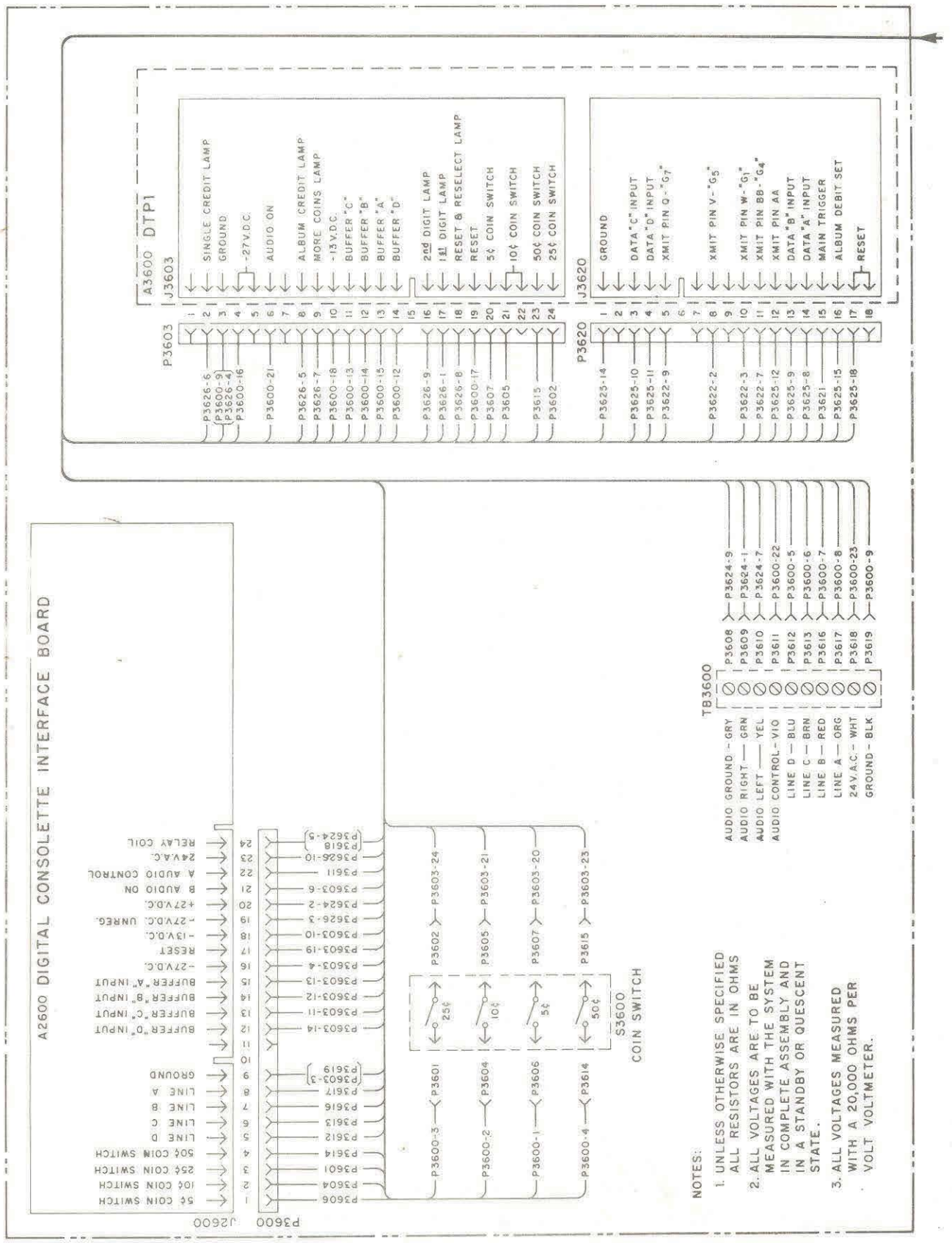
D-1663 (515785-3)



Part 1 of 2

CONSOLETTE BACK ASSEMBLY SCHEMATIC

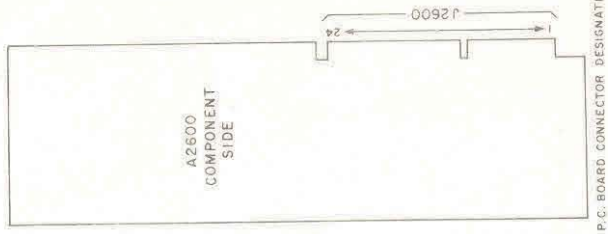
D-1664 (515784-3)



DIGITAL ELECTRONIC CONSOLETTE, Types DEC110, DEC125, DEC210 and DEC225 Page 5

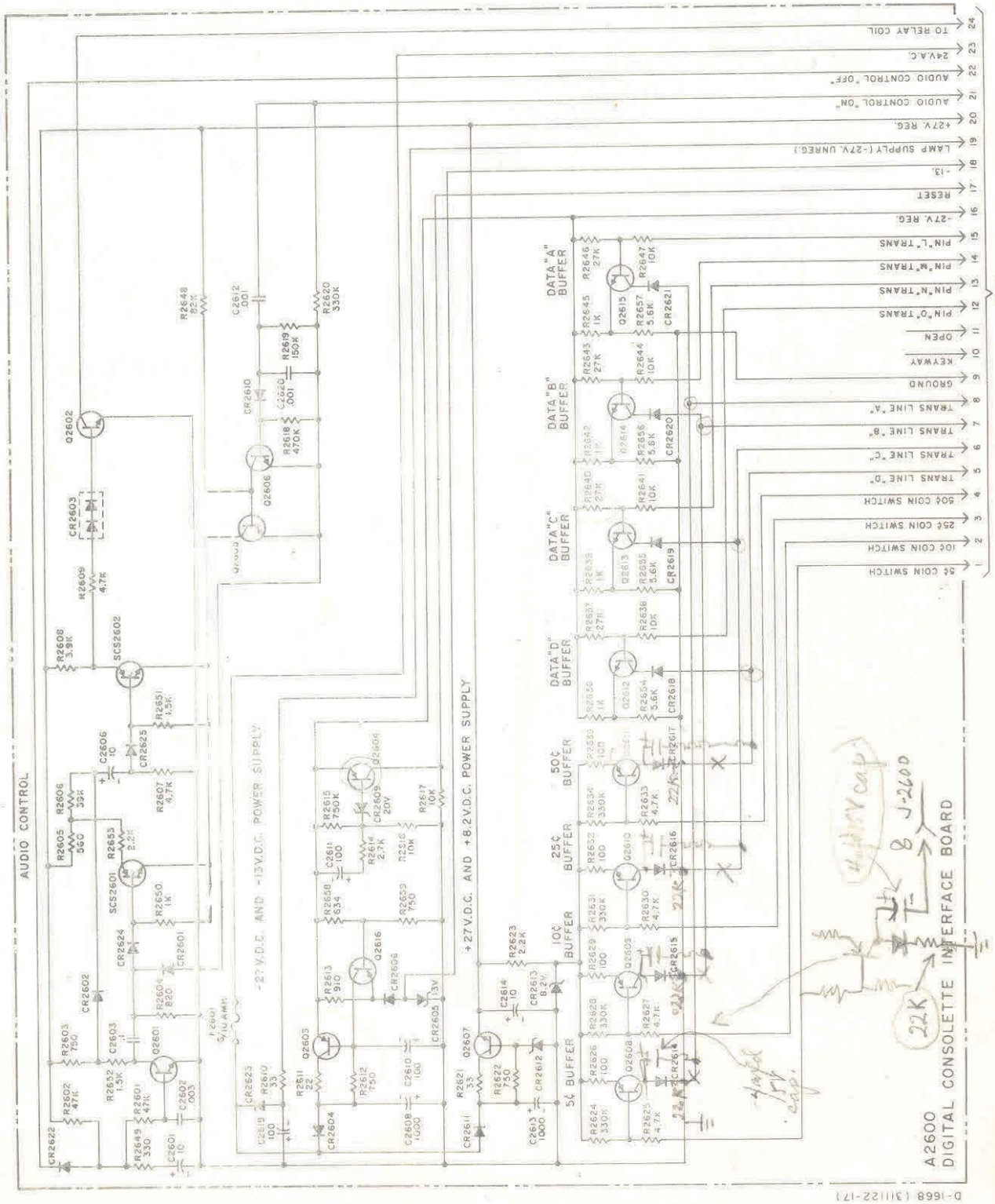
CONSOLETTE INTERFACE BOARD SCHEMATIC

NOTES:
1. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.



P.C. BOARD CONNECTOR DESIGNATION

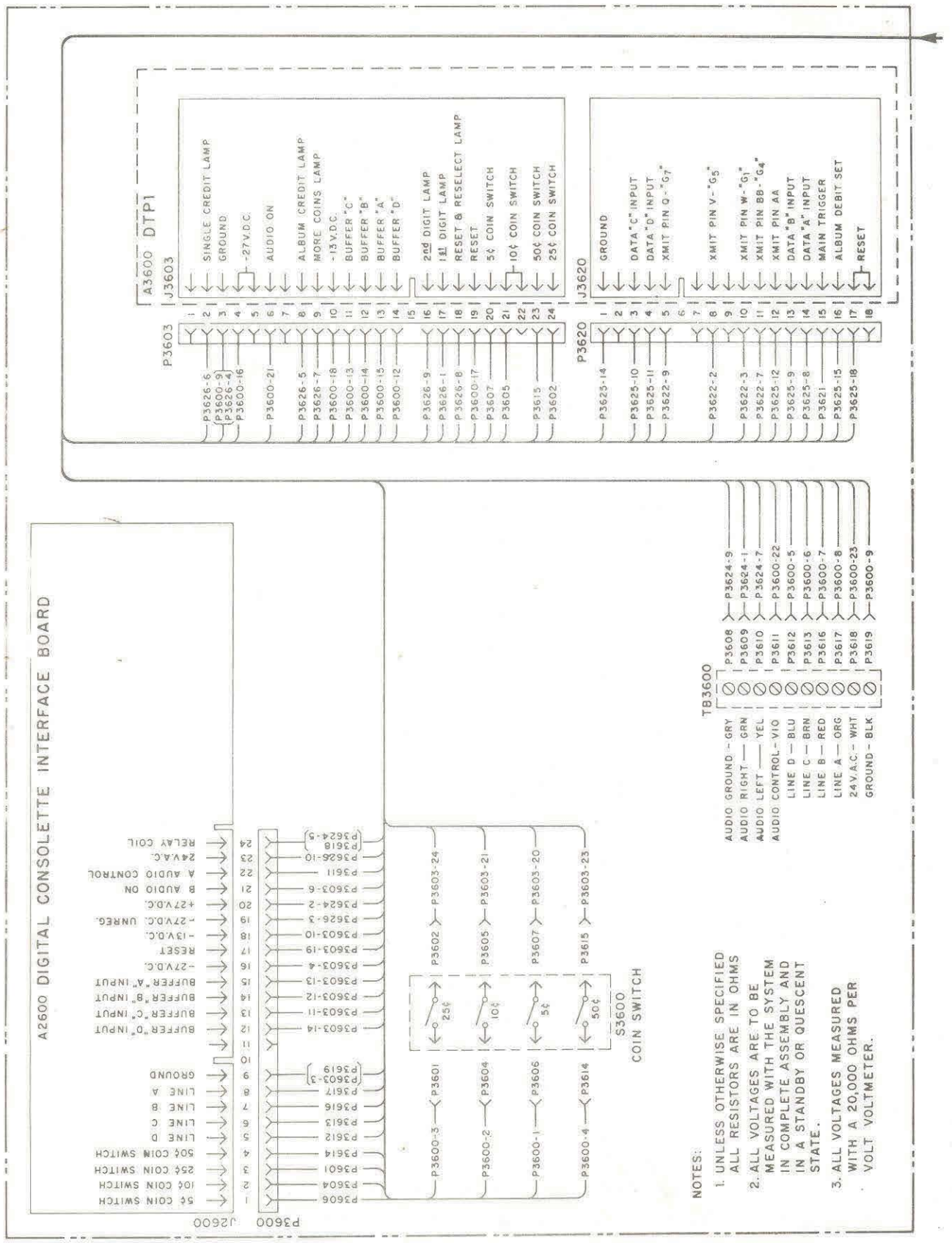
PRINTED CIRCUIT BOARD LEGEND	
DEC 1 CODE LETTER	A2600 IDENTIFICATION
A	311110-1
A	311110-2
A	311110-3
A	311110-4



Part 1 of 2

CONSOLETTE BACK ASSEMBLY SCHEMATIC

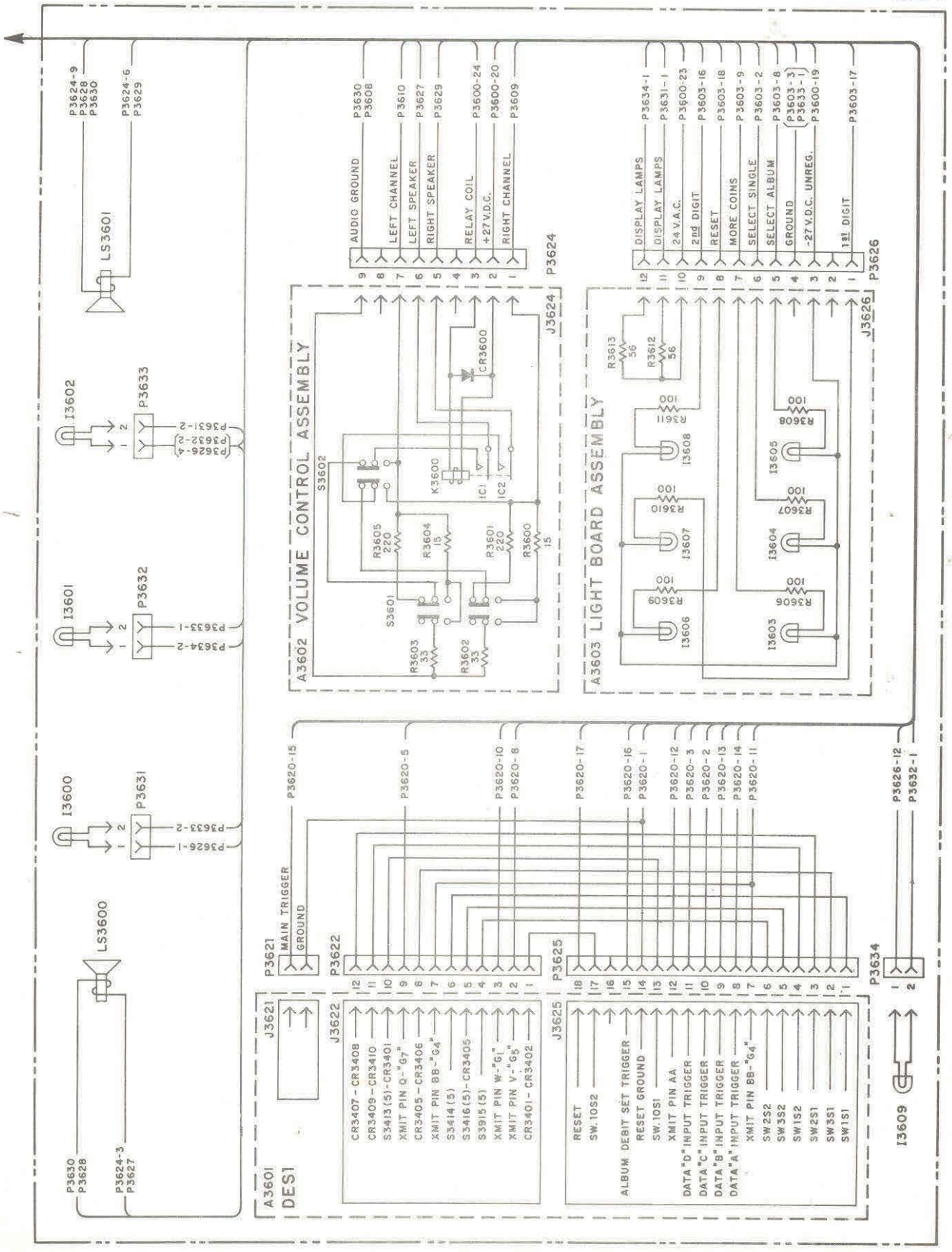
D-1664 (515784-3)



Part 2 of 2

CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC

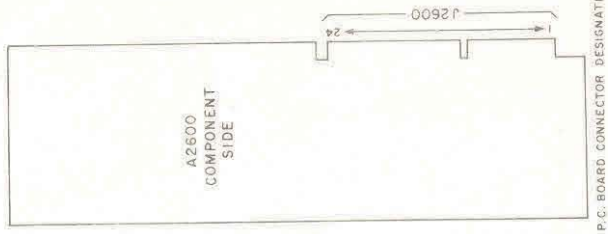
D-1663 (515785-3)



DIGITAL ELECTRONIC CONSOLETTE, Types DEC110, DEC125, DEC210 and DEC225 Page 5

CONSOLETTE INTERFACE BOARD SCHEMATIC

NOTES:
1. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.



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A	311110-3
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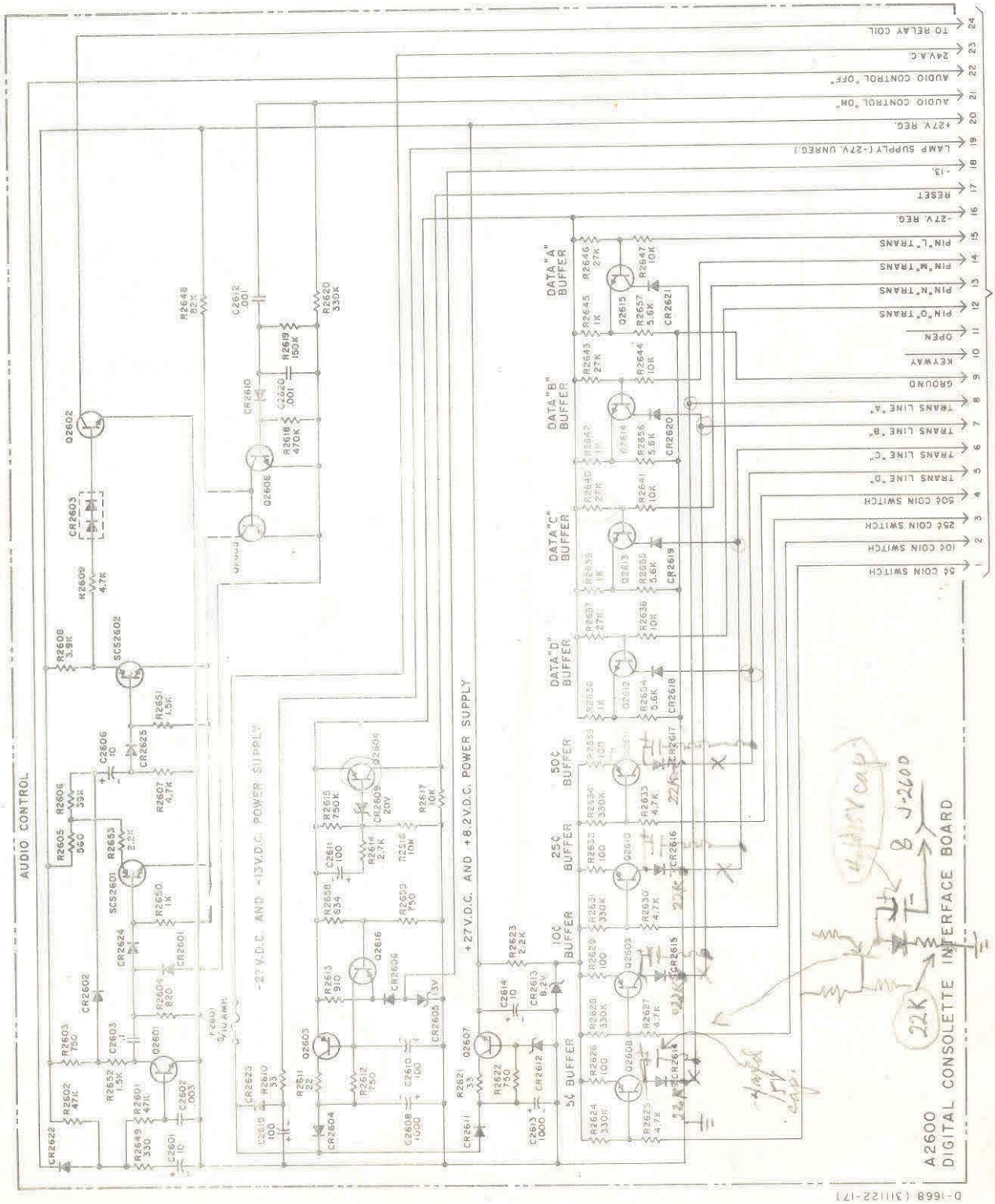
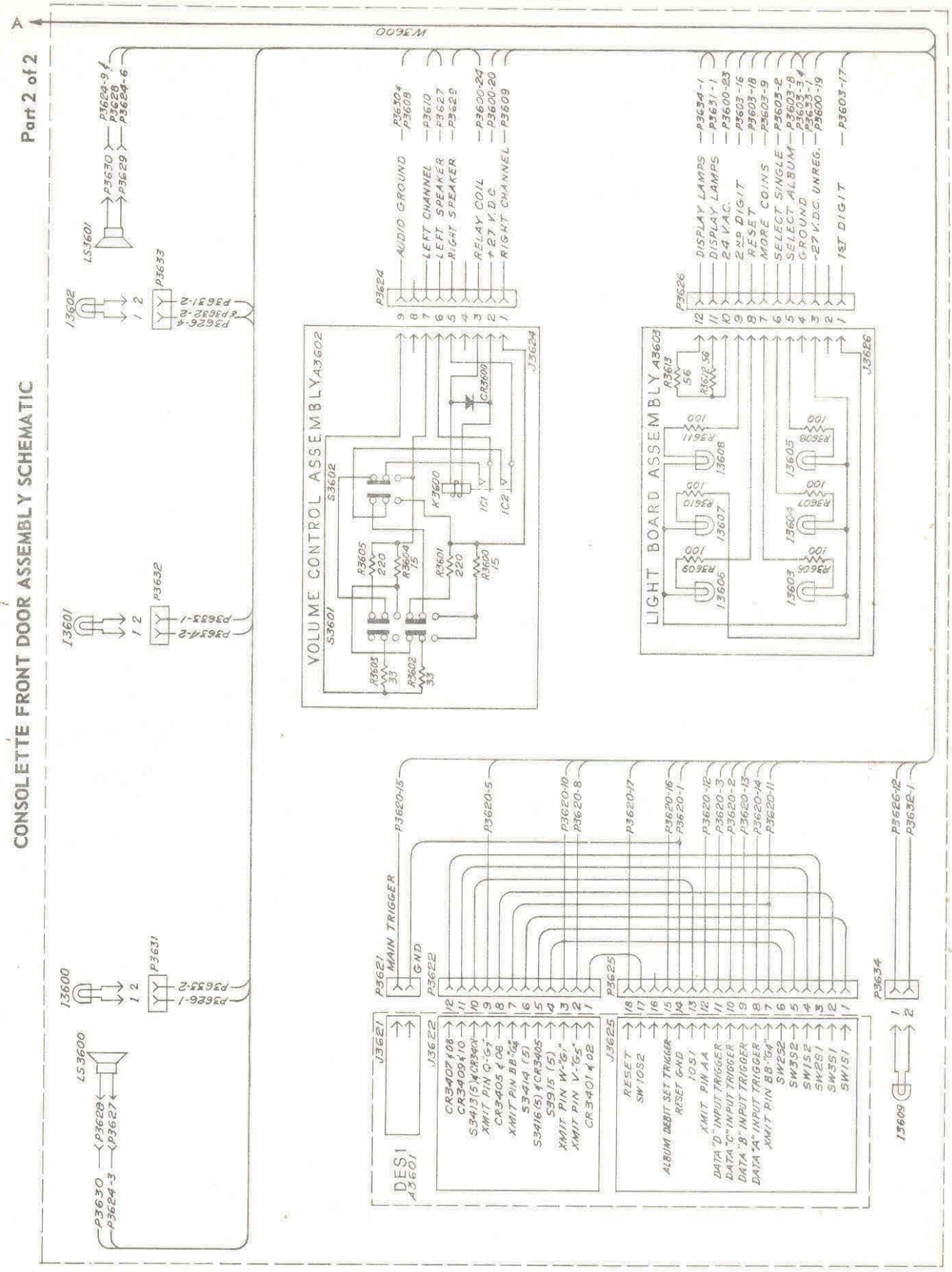
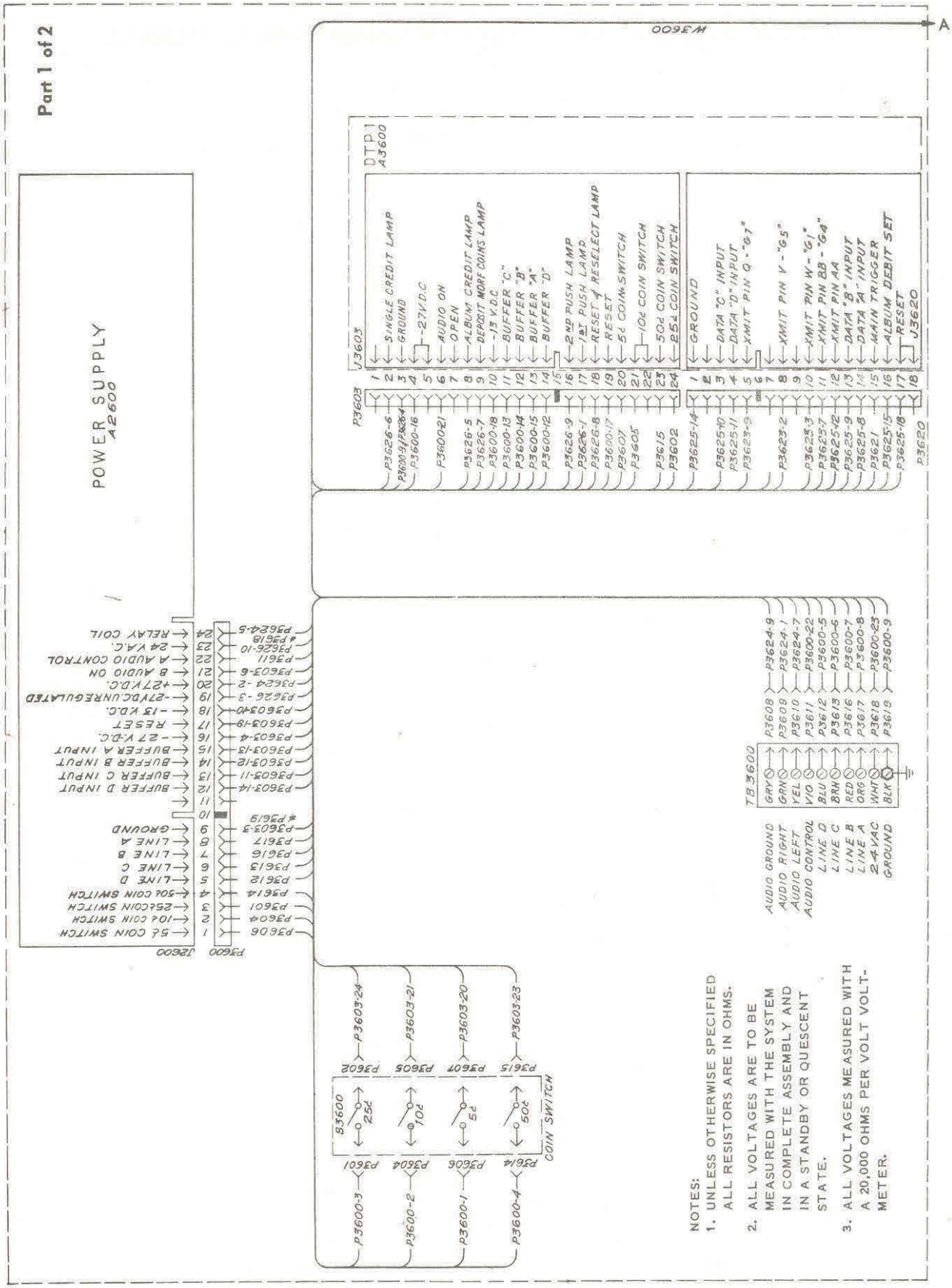
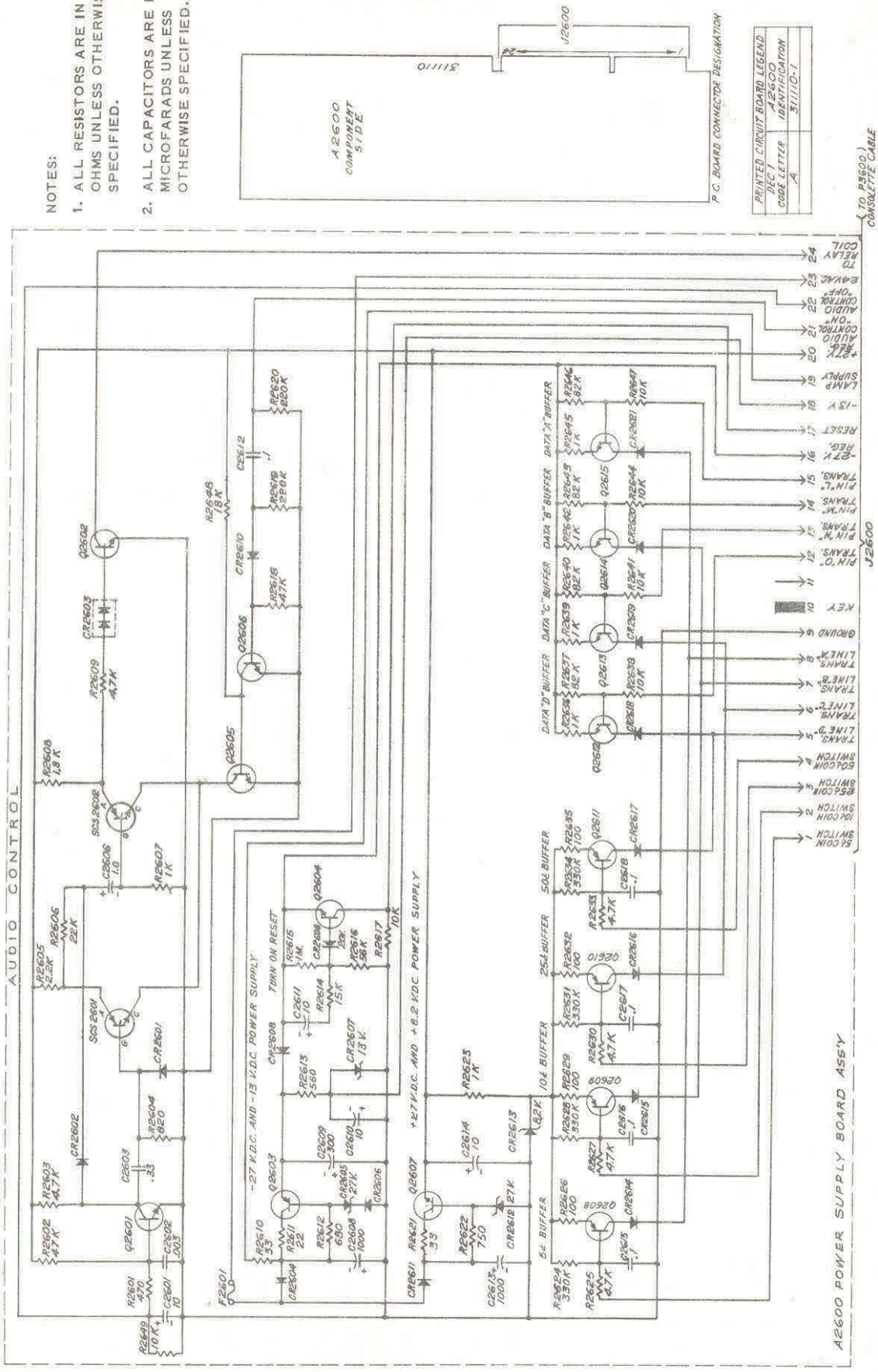



CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC
Part 2 of 2
A
W3600
LS3601
P3630
P3629
P3624-9
P3628
P3624-6
J3602
P3633
P3631-2
P3632-2
P3626-4
J3601
P3632
P3633-1
P3634-2
J3600
P3631
P3633-2
P3626-1
LS3600
P3630
P3624-3
P3628
P3627
P3624
AUDIO GROUND
LEFT CHANNEL
LEFT SPEAKER
RIGHT SPEAKER
RELAY COIL
+27 V.D.C.
RIGHT CHANNEL
P3630-4
P3608
P3610
P3627
P3629
P3600-24
P3600-20
P3609
VOLUME CONTROL ASSEMBLY A3602
S3602
S3601
R3605 220
R3604 15
R3601 220
R3600 15
R3603 33
R3602 33
K3600
CR3600
IC1
IC2
J3624
P3626
DISPLAY LAMPS
DISPLAY LAMPS
24 V.A.C.
2ND DIGIT
RESET
MORE COINS
SELECT SINGLE
SELECT ALBUM
GROUND
-27 V.D.C. UNREG.
1ST DIGIT
P3634-1
P3631-1
P3600-23
P3603-16
P3603-18
P3603-9
P3603-2
P3603-8
P3603-3
P3633-1
P3600-19
P3603-17
LIGHT BOARD ASSEMBLY A3603
R3613 56
R3612 56
R3611 100
R3610 100
R3609 100
R3608 100
R3607 100
R3606 100
J3626
P3620-15
P3620-5
P3620-10
P3620-8
P3620-17
P3620-16
P3620-1
P3620-12
P3620-3
P3620-2
P3620-13
P3620-14
P3620-11
P3621
MAIN TRIGGER
GND
P3622
P3625
P3626-12
P3632-1
P3634
J3621
J3622
J3625
DES1 A3601
CR3407 ¢08
CR3409 ¢10
S3413(5) ¢CR3409
XMIT PIN Q-G7
CR3405 ¢06
XMIT PIN BB "G4"
S3414 (5)
S3416(6) ¢CR3405
S3915 (5)
XMIT PIN W-"G6"
XMIT PIN V-"G5"
CR3401 ¢02
RESET
SW1092
ALBUM DEBIT SET TRIGGER
RESET GND
105I
XMIT PIN AA
DATA "D" INPUT TRIGGER
DATA "C" INPUT TRIGGER
DATA "B" INPUT TRIGGER
DATA "A" INPUT TRIGGER
XMIT PIN BB "G4"
SW2S2
SW1S2
SW2S1
SW1S1
SW3S1
SW1S1
J3613
13609

CONSOLETTE BACK ASSEMBLY SCHEMATIC



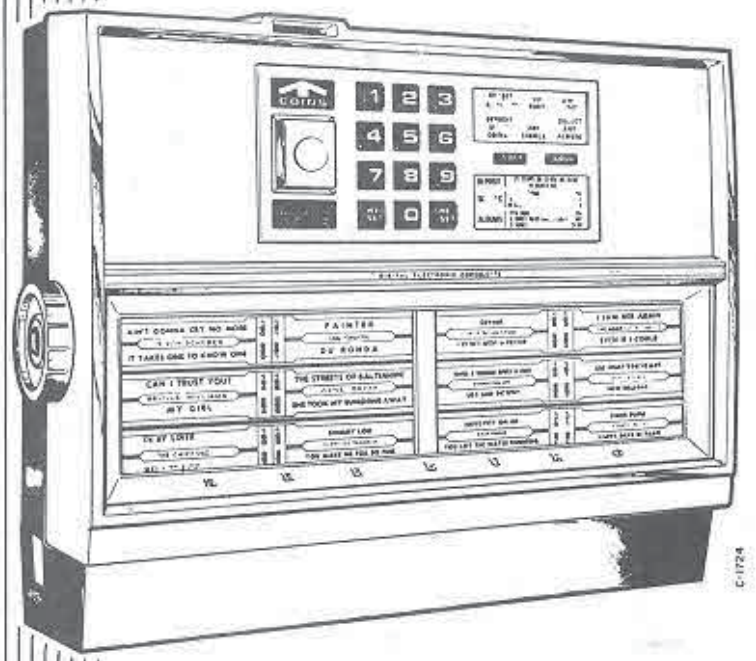
CONSOLETTE POWER SUPPLY SCHEMATIC



SEEBURG

DIGITAL ELECTRONIC CONSOLETTE,

Types DEC110, DEC125, DEC210, DEC225



C-1724

SERVICE MANUAL

SEEBURG MICROLOG

MANUAL NO. 516004

THE SEEBURG SALES CORPORATION
CHICAGO, ILLINOIS 60622 U.S.A.

8-1-71 515898

SEEBURG WARRANTY

We, The Seeburg Corporation of Delaware (Seeburg), are proud to present this new consolette to you. Its engineering advancements and its inherent fine quality features are part of the Seeburg tradition for leadership in the coin phonograph field. With full confidence in our product, we extend the following warranties for COMPLETE ASSEMBLIES, as well as parts, to your attention:

3 Years

DIGITAL TRANSMITTER AND PRICING UNIT

Seeburg warrants the Digital Transmitter and Pricing Unit assembly installed in this consolette to be free from defects in material or workmanship under normal use and service for a period of three years from the date of manufacture. This warranty does not extend to pricing boards or any accessories.

1 Year

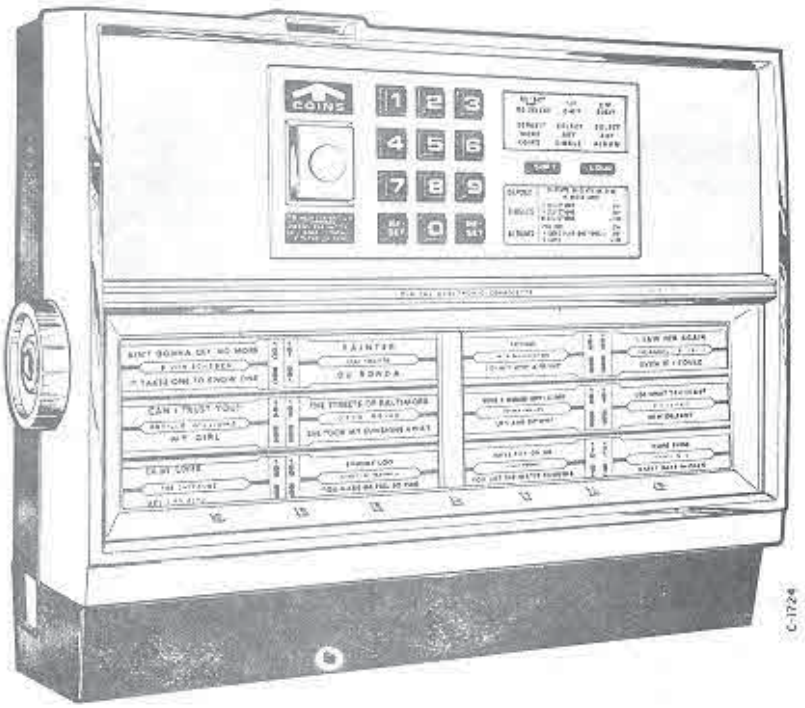
Seeburg warrants this consolette manufactured by it to be free from defects in material or workmanship under normal use and service for a period of one year from the date stamped on PARTS found therein.

Seeburg's obligation under this warranty is limited to making good at its factory any complete units as set forth in the 3-year warranty above, and any part as set forth in the 1 year warranty above, which shall within any of the periods specified above be returned to it through its authorized distributor and by means of its examination shall disclose to its satisfaction to have been thus defective. Any warranted part or assembly found by it to be defective will be exchanged without charge to owner; however, labor and transportation costs incidental to the replacement or exchange of said parts shall be borne by owner. The unexpired portion of the original warranty periods shall continue effective until the original expiration date.

This warranty does not extend (1) to any of our products which have been subject to misuse, neglect, accident, incorrect wiring not our own, improper installations, improper testing, or to use in violation of instructions furnished by us, (2) to units which have been repaired or altered by anyone other than our distributor, (3) to cases where the manufacturer's seal, date, or the serial number of the product has been removed, defaced or changed, (4) to lamps, lamp starters, glass, and fuses, or (5) to accessories not of our own manufacture or design used with our products.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS CONSOLETTE. Seeburg reserves the right to make any changes or improvements on the consolette and/or parts thereof without notice and without any obligations to make corresponding changes or improvements in consolettes theretofore manufactured or sold.

THE SEEBURG CORPORATION OF DELAWARE CHICAGO, ILLINOIS 60622



– SPECIFICATIONS –

POWER REQUIREMENTS. . 24 volt 50/60 Hz.
0.4 amps standby - 0.6 amps maximum

LIGHTING . . . . . Four No. 19 lamps (general lighting)
Six No. 1819 lamps (credit and selection lamps)

DIGITAL ELECTRONIC SELECTOR, Type DES1

CONSOLETTE SPEAKERS. . . Two 3 x 5 inch

DIGITAL TRANSMITTER AND PRICING UNIT Type DTP1

FUSE
Digital Consolette Interface Board Assembly ¾ amp., Part No. 602223

DIMENSIONS AND WEIGHTS:

Height	13½ inches
Width	16 inches
Depth	5 inches
Net Weight	28 pounds
Shipping Weight	32 pounds

ACCESSORIES

Digital Consolette Power Supply Kit, Type DCPS1K-56	Part No. 317168
Digital Consolette Power Supply, Type DCPS1-56	Part No. 317136
Digital Consolette Power Supply Kit, Type DCPS1K-H5	Part No. 317169
Digital Consolette Power Supply, Type DCPS1-H5	Part No. 317137
Bar Bracket Assembly	Part No. 516030
10-Conductor Cable	Part No. 507503

– DESCRIPTION –

GENERAL

The Seeburg Types, DEC110, DEC125, DEC210, and DEC225 Digital Electronic Consolettes are units which comprise a wired remote control system designed for the remote selection of "Album Side" or "Single" play selections in the Digital Select-O-Matic Phonographs.

NOTE!

These types of Consolettes can only be used with the Digital Selection Phonograph Models. They CANNOT be used with any previous model phonographs. Types SC, SCH Consolettes or Wall-O-Matics CANNOT be combined in a circuit with the Types DEC Consolettes.

The Digital Electronic Consolette features a Digital Electronic Selecting and Pricing System identical to that used in the Digital Selection Phonograph.

The Transmitter, Receiver, Decoder and Pricing Unit have no moving parts; instead all logic functions are performed by solid state circuitry incorporating the latest in microelectronic technology (Seeburg MICROLOGS). Both the Digital Transmitter and Pricing Unit and the Digital Receiver and Decoder are factory sealed units, each carrying a 3 year warranty detailed in the Warranty Certificate supplied with the Consolette.

The Pricing System includes a NEW FEATURE of Actual Cash Value Bonus. With this feature, any 25 cent combination of nickels and dimes deposited in succession, gives the same credit as a quarter; and likewise, any 50 cent combination of nickels, dimes, and quarters deposited in succession, gives the same credit as a half dollar. The Pricing Unit permits "Two for Quarter" pricing with nickel and dime acceptance; selections are not permitted until a minimum of 25 cents has been deposited. In the event that less than the minimum amount has been deposited, a window illuminates instructing the customer to deposit more coins. In addition to the Actual Cash Value Bonus feature, the Pricing Unit also features quick, simple price changing by use of plug-in Pricing Boards.

A precision coin switch energizes the pricing unit when a coin is deposited in the Consolette. The switch connections may be modified to suit different makes of coin equipment.

Another new feature is the Selecting System, using only a 10 button selector with an all NEW 3 digit selecting code.

The Digital Electronic Selector is located in the center of the display panel. It consists of ten numerical buttons which are used for making a selection. It also has two Reset Buttons, each of which give the customer the option of changing his selection after pressing the first or second buttons. In the event that a set of buttons are pressed, that do not correspond in price to a programmed selection, a window illuminates, instructing the customer to make another selection.

Information from the Digital Electronic Selector is stored in the Digital Transmitter and Pricing Unit, Type DTP1. Upon completion of the selection, the information is then transmitted to the Digital Receiver and Decoder, Type DRD1, in the phonograph, which in turn, decodes it and transfers this information to the Tormat Memory Unit and other mechanism electronics, for selection play.

With the phonograph power on, the Consolette credit lights will be illuminated immediately after establishing minimum credit, i.e.; after the minimum amount of coins have been deposited. The credit lights remain on as long as unspent credits are available.

Each Consolette is equipped with a pair of speakers which provide for localized stereo listening to selections. Speaker volume may be controlled at the individual Consolette by the SOFT and LOUD push buttons.

In addition, each Consolette is equipped with a special audio control Circuit. When a selection is made at the Consolette, circuits are completed through the phonograph, which permit listening to the program through the Consolette Stereo Speakers. After two excursions (back and forth twice), of the Select-O-Matic mechanism in the phonograph, the speakers are switched off. This will occur even when selections are made from other Consolettes or at the phonograph to permit continued operation of the mechanism.

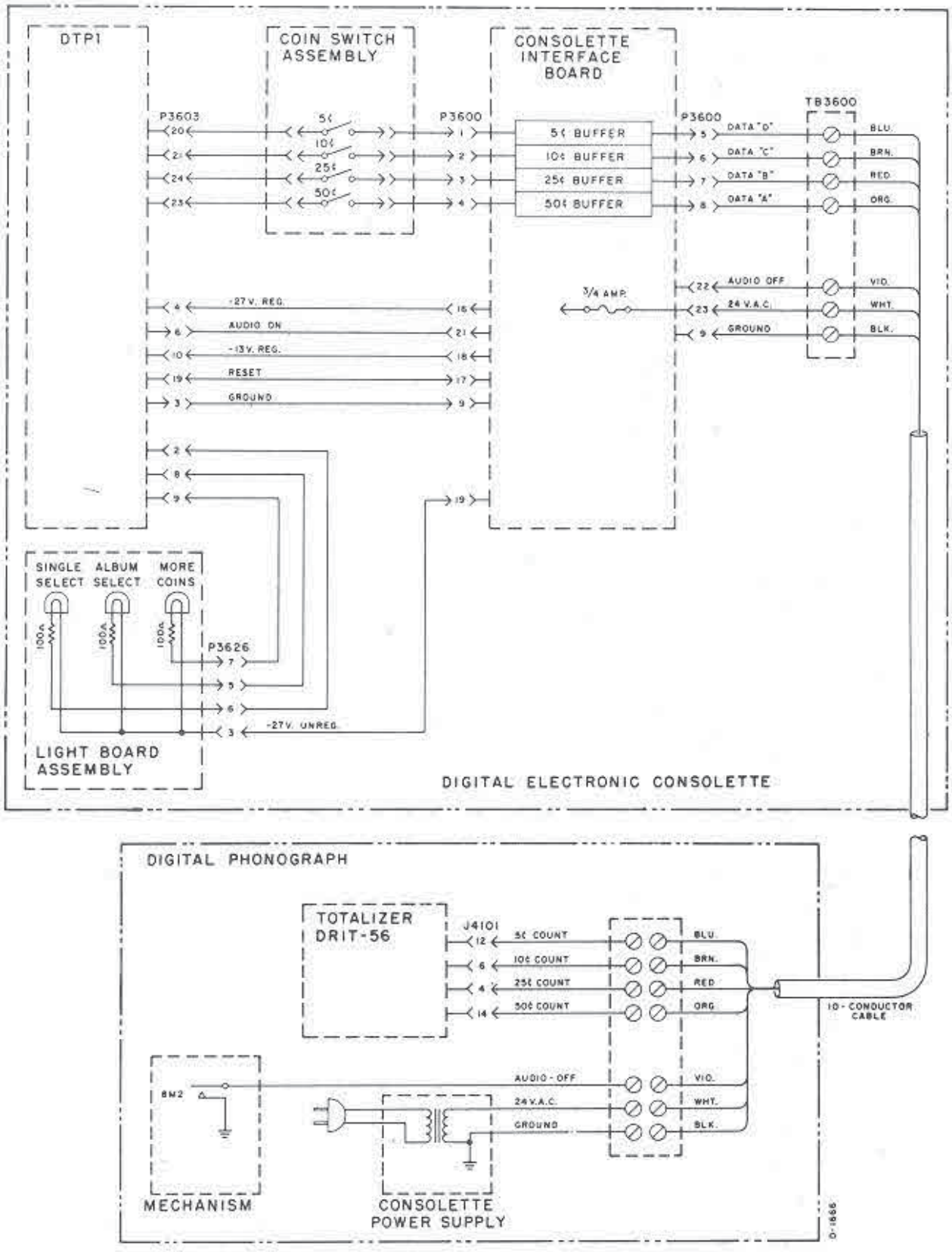
The Consolette operates at 24 volts A.C., 50/60 Hertz. Power is supplied by a Type DCPS1-56 Digital Consolette Power Supply (Part No. 317136), which must be installed in the phonograph for up to eight Consolettes. If the installation requires more than eight Consolettes, an additional power supply must be installed per each additional group of eight Consolettes.

In addition, whenever 8 Consolettes are to be connected and distributed along a ten conductor cable whose length exceeds 150 feet, additional pairs of black and white power wire, AWG16, are needed to ensure a minimum of 22.5 VAC input voltage to each digital Consolette for proper operation. See Chart 1. Additional pairs of power wire to originate from terminal board of DCPS1-56 mounted on bottom of digital phonograph.

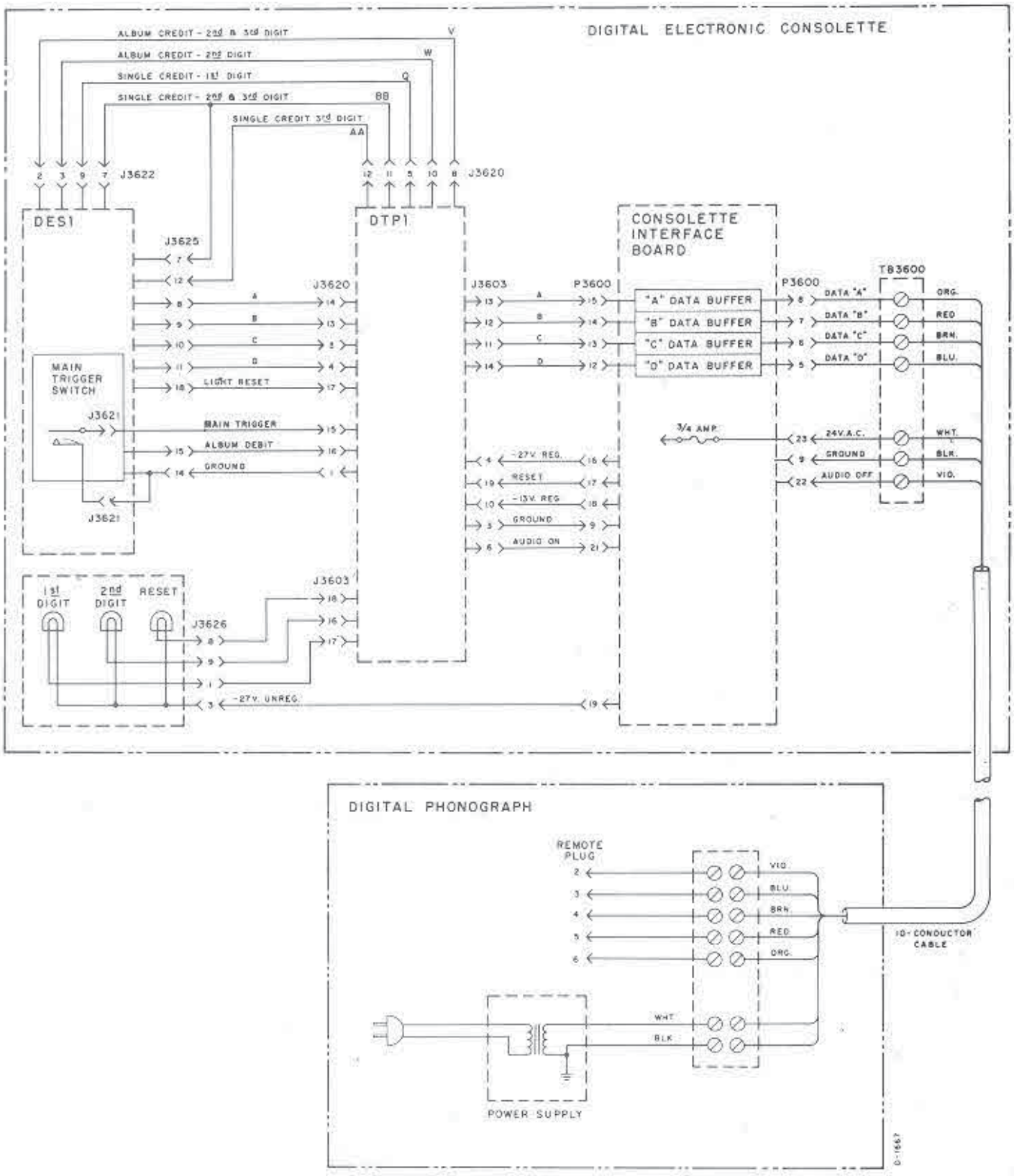
CABLE RUN LENGTH FOR EIGHT CONSOLETTES	NO. OF DEC1's ON ONE PAIR OF POWER WIRE AWG16	EXTRA PAIR OF POWER WIRE AWG16
Up to 150 feet	8	None
Up to 300 feet	4	1 Pair Extra
Up to 600 feet	2	3 Pair Extra
Up to 1200 feet	1	7 Pair Extra

CHART 1. Addition of Power Wire Pairs for Cable Runs over 150 Feet.

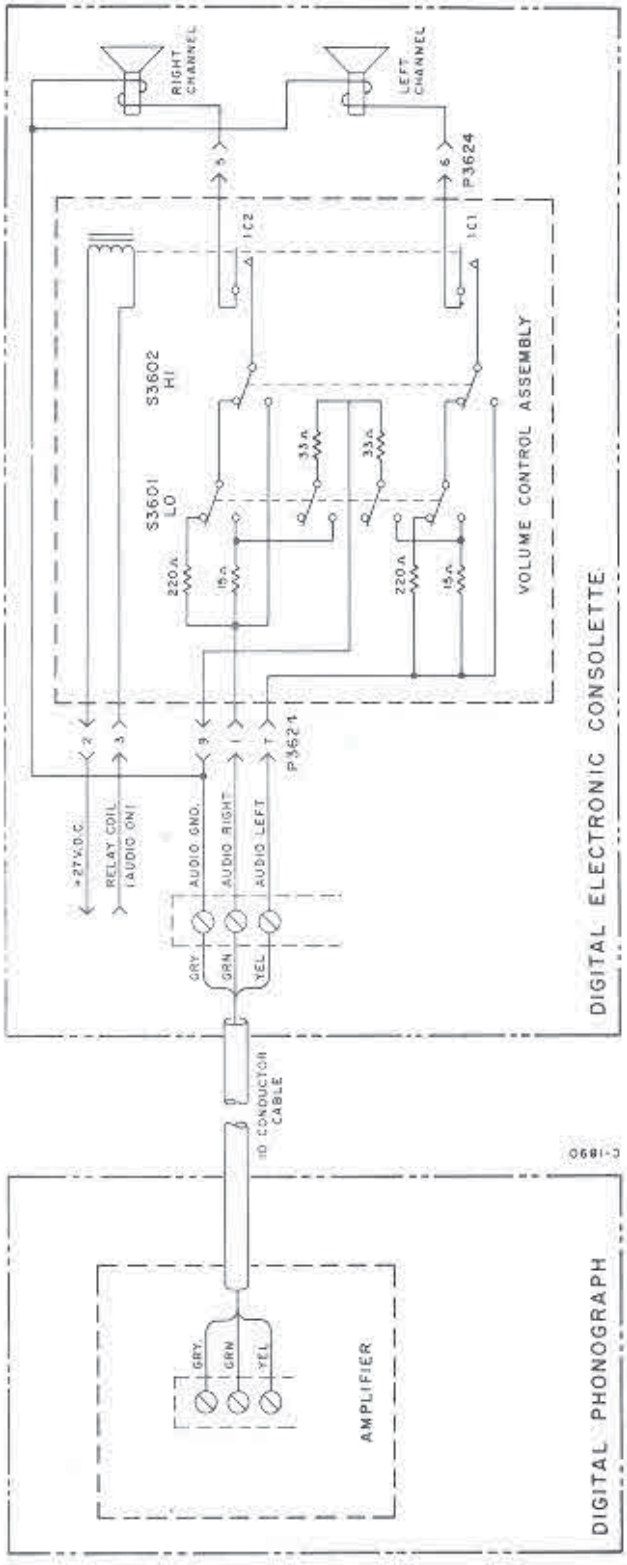
DIGITAL CONSOLETTE CREDIT SYSTEM SERVICE DIAGRAM



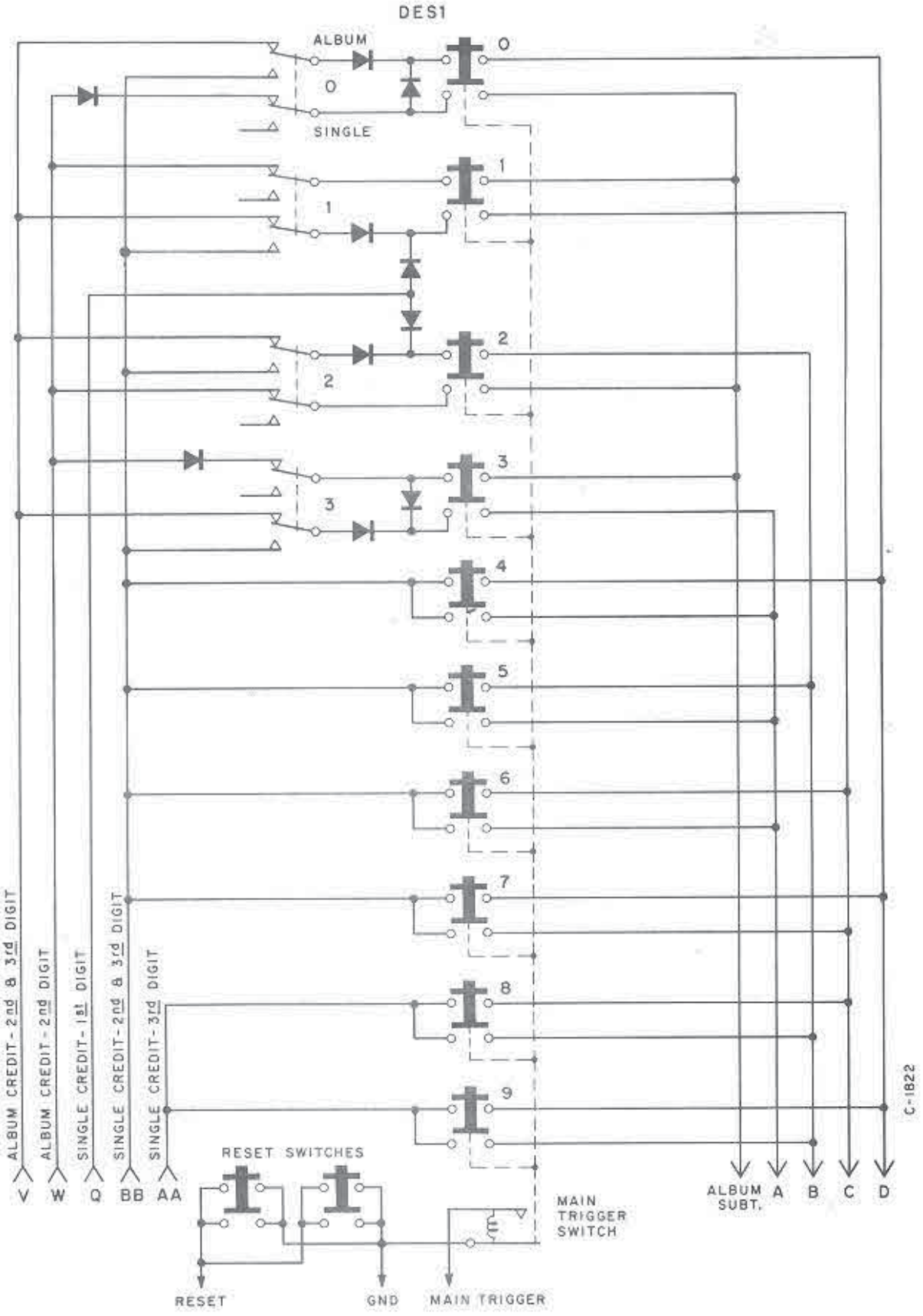
DIGITAL CONSOLETTE SELECTION SYSTEM SERVICE DIAGRAM



DIGITAL CONSOLETTE AUDIO SYSTEM SERVICE DIAGRAM



DIGITAL ELECTRONIC SELECTOR, Type DES1



COIN SWITCH ADJUSTMENT INSTRUCTIONS

– IMPORTANT –

Use care when making blade pressure and contact spacing adjustments. Adjustment screws should be turned only a fraction of a turn at a time. Use a grom gauge for checking blade pressures. A gauge with a range of 0 to 10 grams is recommended.

CAUTION: Turning the screws beyond the adjustment range will cause damage to the contact blades.

1. PRELIMINARY CHECKS

Before making any adjustment, check that:

a. The three (3) Phillips head screws (shown in Figure 1) are pulled up securely. It may be necessary to hold the nut on the center screw in a rigid position when tightening the screw.

b. The paddle pivot pin is free of dirt and grease.

c. The contacts are clean and free of pits. (Burnish if necessary)

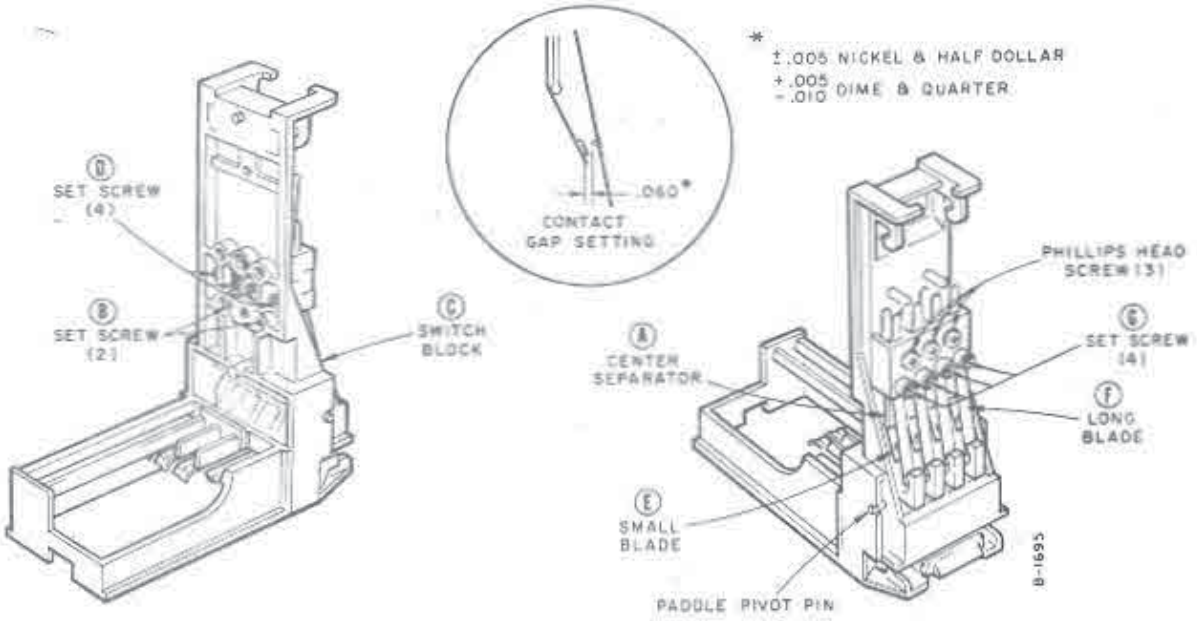


FIGURE 1.

2. CONTACT GAP SETTING

Adjust the two set screws (B, Figure 1) for the following contact gaps:

Quarter and half dollar – .060 ±.005

Quarter and dime – .060 $^{+.005}_{-.010}$

COIN SWITCH ADJUSTMENT INSTRUCTIONS

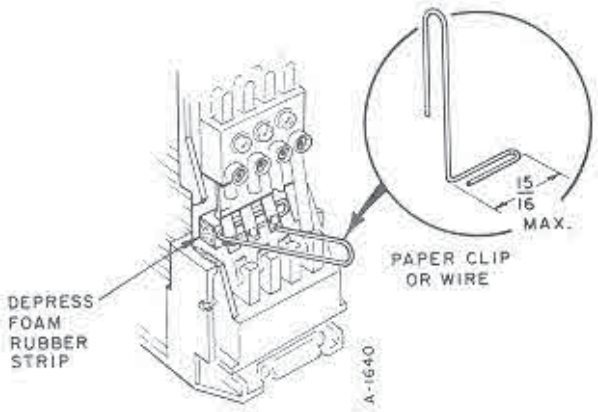


FIGURE 2.

3. NICKEL DIME AND QUARTER SWITCHES (Short Blade Pressure Adjustments)

a. Fashion an implement out of a paper clip similar to that shown in Figure 2. Wire, of a comparable gauge, may also be used.

b. Using this implement, depress the foam rubber pad located behind the short blades, see Figure 2.

c. Adjust each D set screw (Figure 1) so that a pressure of 2 grams ±½ gram is obtained. The blade should just move away from separator A when pressure from the gauge is applied at the correct setting.

4. HALF DOLLAR (Short Blade Pressure Adjustment)

This adjustment is the same as that described in Paragraph 3. except that the pressure is 4 grams ±½ gram.

5. NICKEL, DIME, QUARTER AND HALF DOLLAR (Long Blade Pressure Adjustment)

a. Adjust G set screws until a pressure of 7 to 9 grams at the back of the contacts causes closing. The closure of the contacts is best indicated with a volt-ohm meter.

NOTE: After making the pressure adjustments, recheck the gap settings to make sure they have remained within limits.

DIGITAL ELECTRONIC SELECTOR, Type DESI

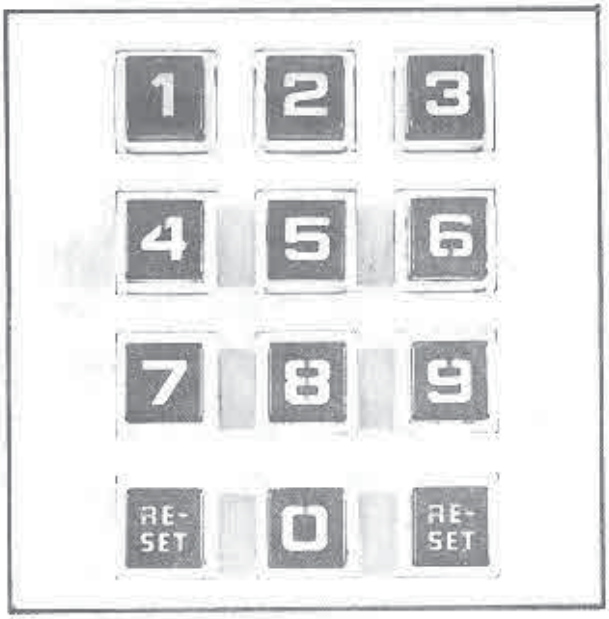


Figure 1. Digital Electronic Selector, Type DESI.

The Digital Electronic Selector, Type DESI is an integral part of the Digital Selection System. It consists of ten (10) selector buttons, two (2) reset buttons, a main trigger switch and four (4) "Album-Single" pricing switches. This unit is connected to the Digital Transmitter Pricing Unit, Type DTPI, by means of a twelve (12) pin and an eighteen (18) pin printed circuit board edge connector. Connection to the main trigger switch is made by two (2) single lug push-on connectors.

The Digital Electronic Selector, Type DESI provides a means for selecting any one (1) of one hundred and sixty (160) selections.

Each selection has a three digit address. The first (hundreds) digit must be a "1" or a "2" Pressing a "1" on the first (hundreds) digit indicates the left side of a record. Pressing a "2" on the first (hundreds) digit indicates the right side of a record.

Pressing a number other than a "1" or a "2" on the first (hundreds) digit is not a valid selection and will cause the "reset and re-select" lamp to light. This will require that the "reset" button be pressed, and a valid selection made. The second (tens) digit indicates the record group selected. There are eight valid record groups, numbered "0" through "7". Pressing an "8" or "9" on the second (tens) digit is not a valid selection and will cause the "reset and re-select" lamp to light.

The third (units) digit indicates a particular record in a record group. There are ten (10) records in a record group and are numbered "0" through "9".

The Digital Electronic Selector, Type DESI receives credit level information from the Digital Transmitter Pricing Unit, Type DTPI on five (5) input lines. This information in the form of voltage levels is distributed by the printed circuit board to the ten (10) selector buttons. As a particular button is depressed, the individual selector switch closes before the main trigger switch closes. When the main trigger switch closes, the input lines from the Digital Transmitter and Pricing Unit to the Digital Electronic Selector are activated, permitting voltage levels to pass through the selector switch to four (4) data lines which return to the Digital Transmitter Pricing Unit.

ADJUSTMENTS

Selector Switches –

Each individual selector switch should close with 1/32 inch to 3/32 inch of SWITCH STEM TRAVEL.

(not necessarily selector button travel)

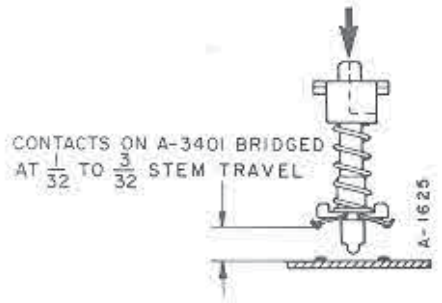


Figure 2. Selector Switch Adjustment.

DIGITAL ELECTRONIC SELECTOR, Type DES1

NOTE:

When checking a particular selector switch, consult the DES1 Schematic Diagram, Figure 4. Disconnect edge connectors from DES1 and connect a continuity tester to proper printed board contacts associated with selector switch being checked.

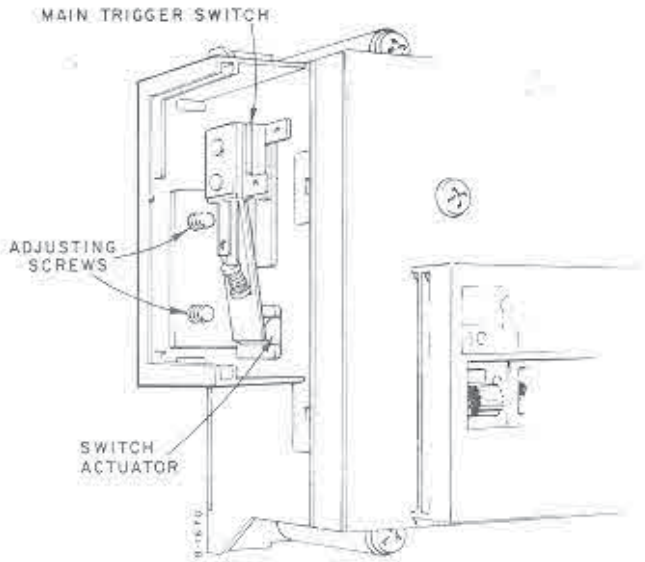


Figure 3. Trigger Switch Adjustment.

Main Trigger Switch –

The Main Trigger Switch should operate with 1/8 inch to 5/32 inch of any selector switch stem travel. (not necessarily selector button travel).

		DIGITAL SELECTOR BUTTONS										STAND-BY
		0	1	2	3	4	5	6	7	8	9	
DATA LINES	A	1	1	1	0	0	0	0	1	1	1	1
	B	1	1	0	1	1	0	1	1	0	0	1
	C	1	0	1	1	1	1	0	0	0	1	1
	D	0	1	1	1	0	1	1	0	1	0	1
		FOUR PART DIGITAL CODES-QUADRIBITS DEVELOPED BY DES1										

Figure 4. Four-Part Digital Codes – Quadribits.

FOUR PART DIGITAL CODE – QUADRIBIT

Three quadribits make up a three digit selection address. From Figure 4, a particular selection address can be shown. The three quadribits for the three digit selection 156 would be 0010 for the hundreds digit "1", 0011 for the ten's digit "5", and 0101 for the units digit "6".

The 0's of the quadribit are gound pulses. The 1's are - 6VDC levels - normal condition of data lines. Pressing button "5" approximately 1/16 inch, closes two switch segments 5S1 and 5S2, see Figure 5. Switches 5S1 and 5S2 connects credit set line "BB" (single credit - 2nd and 3rd digit) to data lines A and B, approximately 1/16 inch further travel of button "5" will close main trigger switch S3417. A ground pulse then appears on set line "BB", which passes through closed switch segments 5S1 and 5S2 to the A and B data lines. The data lines provide a path to the quadribit storage area in DTP1.

DIGITAL ELECTRONIC SELECTOR, Type DES1

Item	Part No.	Description
A3401	412014	Printed Contact Board
A3402	412031	Sw. & Circuit Board Assem.
CR3401 thru CR3410	309481	Diode
J3401		Part of A3401
J3402		Part of A3402
J3403		Part of S3417
J3404		Part of S3417
S3401 thru S3412	412019	Contact Assembly
S3413 thru S3416	421035	Switch
S3417	412042	Sw. & Bracket Assem.

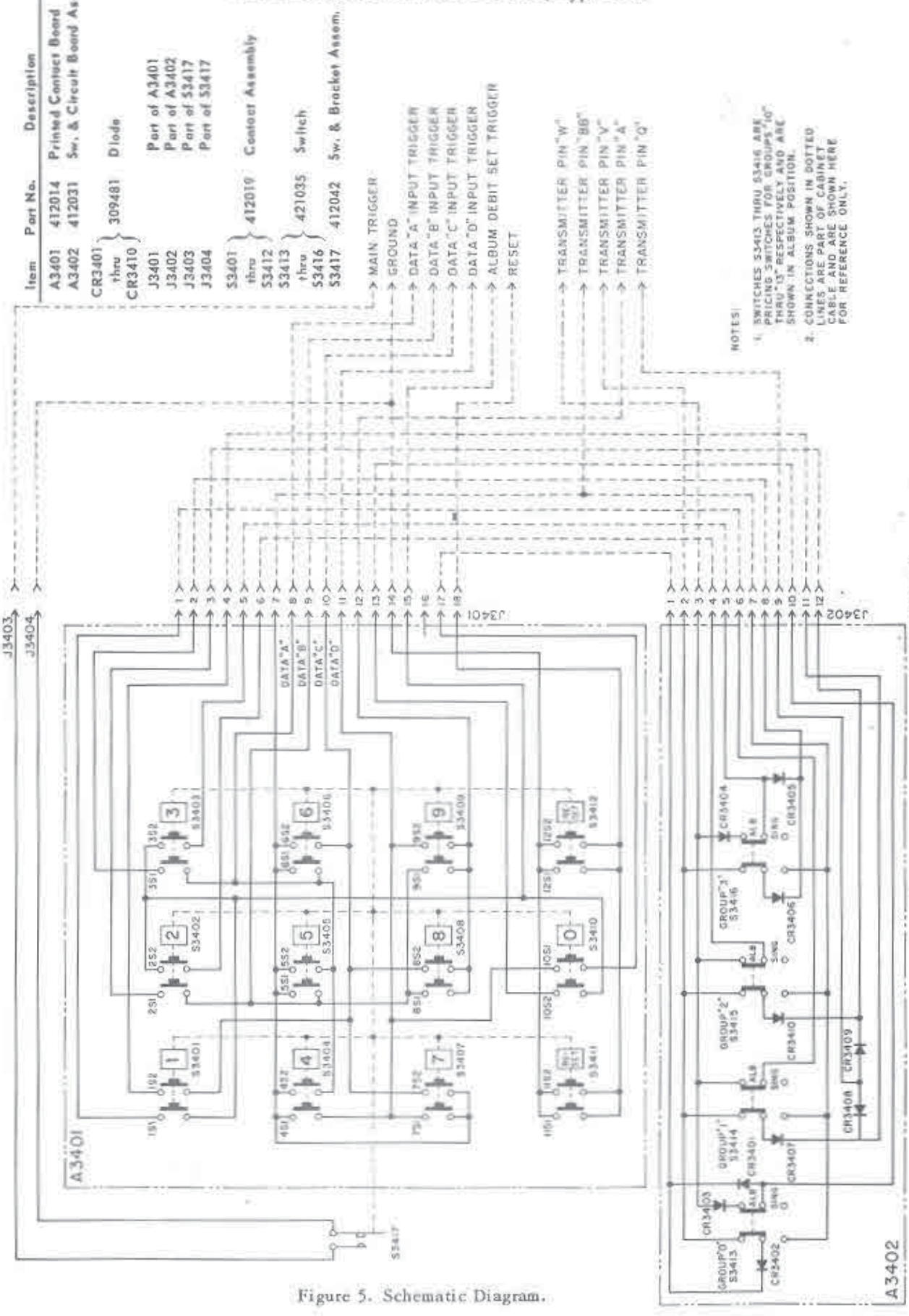


Figure 5. Schematic Diagram.

DIGITAL ELECTRONIC CONSOLETTE INTERFACE BOARD

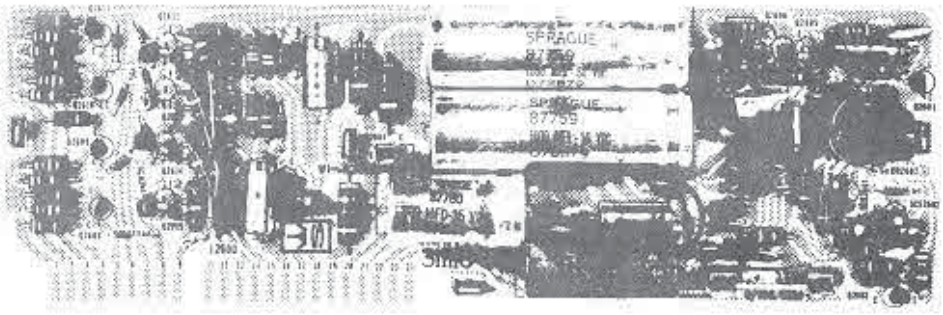


FIGURE 1. Digital Electronic Consolette Interface Board - A2600.

GENERAL

The interface board contains all DC power supplies necessary to operate the Remote Digital Electronic Consolette. Audio control electronic switching, credit buffers for counting coins deposited, data buffers for digital selection system and reset circuit for resetting binary circuits to zero also, are on the interface board.

CAUTION:

Before removing interface board from mounting posts or unplugging edge connector, turn main power off by removing white wire slip-on connector at TB3600.

–27 VDC REGULATED POWER SUPPLY PHASE 1

CR2604 half wave rectifies the negative half cycle of the 24 VAC input voltage charging C2608 near peak value of 24 VAC. Q2603 acts as a variable resistor to load current to maintain power supply voltage at –27 VDC ± 1 VDC. The zener diode CR2609 references base of Q2603 to –27 VDC. Voltage drop from emitter to base of Q2603 is compensated by the use of CR2606. As load current changes, Q2603 changes its emitter to collector resistance to compensate for any voltage change in power supply. The –27 VDC regulated power supply is used to provide power for the DTP1, and the data buffers.

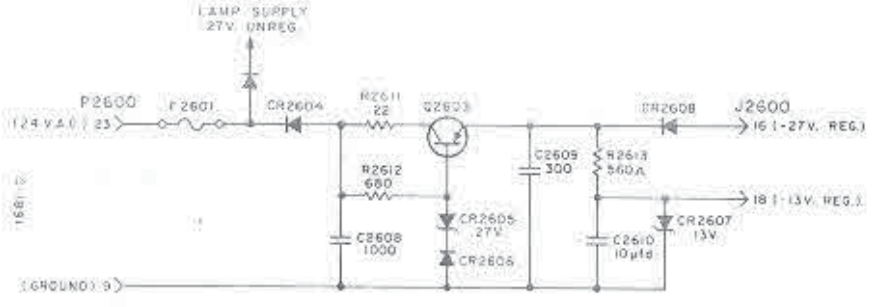


FIGURE 2a. –27 VDC Regulated Power Supply (Phase 1).

DIGITAL ELECTRONIC CONSOLETTE INTERFACE BOARD

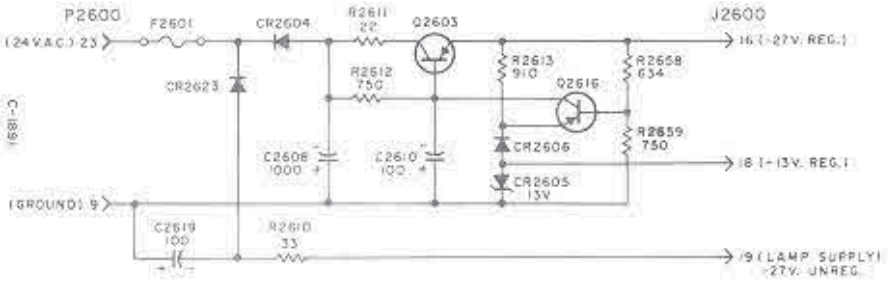


FIGURE 2b. –27 VDC Regulated Power Supply (Phase 2).

–27 VDC REGULATED POWER SUPPLY PHASE 2

Zener diode CR2609 was replaced by Q2616 providing the reference voltage for Q2603. The emitter of Q2616 is held at a constant –13 VDC by the –13 V power source regulator zener diode CR2605. The voltage divider R2658 and R2659 samples the –27 VDC and applies a portion to the base of Q2616. When the –27 VDC goes down the internal resistance of Q2616 goes up. The collector voltage of Q2616 applies a higher voltage to the base of Q2603 the series current regulator. The higher negative voltage applied to the base of Q2603 reduces the eternal resistance of Q2603 maintaining the output voltage of –27 VDC power supply at a constant value.

–27 VDC UNREGULATED POWER SUPPLY

CR2623 rectifies the negative half cycle of the 24 VAC input voltage charging C2619 to approximately –27 VDC. The unregulated –27 VDC is used to power credit, 1st digit, 2nd digit, reset lamps and deposit more coins lamp.

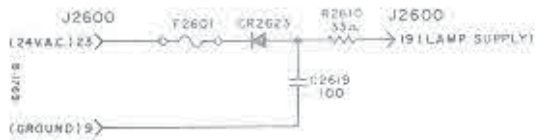


FIGURE 3. –27 VDC Unregulated Power Supply.

–13 VDC REGULATED POWER SUPPLY

CR2607 acts as a shunt regulator to provide –13 VDC ± ½ VDC used in the DTP1. R2613 drops the –27 VDC to approximately –13 VDC. As load current changes the internal resistance of CR2607 will change to maintain the voltage across itself to –13 VDC. The –13 VDC regulated power supply is used to power portions of the DTP1.

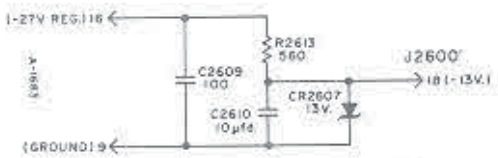


FIGURE 4. –13 VDC Regulated Supply.

RESET CIRCUIT

Q2604 is the reset device to insure resetting the digital systems in DTP1 to zero whenever power is turned off, and power is turned on. As power is reapplied Q2604 will be biased at cut off due to the charging current of C2611 through R2616 and R2614 until C2611 has charged to approximately –27 VDC. The delayed rise in voltage across the collector resistor R2617 of Q2604 is used to reset all digital circuits to the zero state.

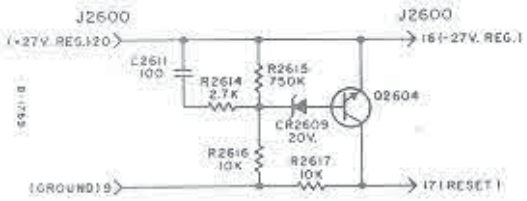


FIGURE 5. Power Reset Circuit.

+27 VDC REGULATED POWER SUPPLY

CR2611 rectifies the positive half cycle of the input 24 VAC input power and capacitor C2613 charges approximately to the peak value of the input voltage. Q2607 acts as a series variable resistor to load current much in the same way as Q2603 in the –27 VDC regulated power supply. The +27 VDC is used to power the Audio Control Circuit and Audio Relay.

DIGITAL ELECTRONIC CONSOLETTE INTERFACE BOARD

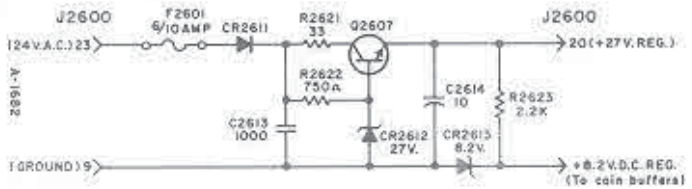


FIGURE 6. +27 VDC and +8.2 VDC Regulated Power Supply.

+8.2 VDC REGULATED POWER SUPPLY

+8.2 VDC Regulated Power Supply is used to power the credit buffers to enable counting coins deposited. It is regulated by the shunt regulator CR2613 zener diode, see Figure 6.

DATA BUFFERS

The four Data Buffers are used to transmit the four bit digital data code to the receiver buffers in the control center of the Digital Phonograph for making selections. The input pulses of the data buffers originate from the Digital Transmitter and Pricing Unit shortly after pushing the last digit of the three digit selections.

Three digital codes will be transmitted by the data buffers for each selection. A code will appear as pulses on the red, brown, orange and blue wires interconnecting the Digital Consolettes with the Digital Phonograph. The time for transmission of all three codes will be only 1.5 miliseconds. This time is so short that the probability of selection codes from various Digital Consolettes arriving simultaneously at the Digital Phonograph is for all practical purposes nonexistant.

Q2612, Q2613, Q2614 and Q2615 are normally not conducting. As a ground pulse appears at the base of any data buffer conduction will take place. The momentary conduction of a data buffer causes a −27 VDC pulse to appear on a data line, one of the brown, red, orange and blue wires of the ten conductor cable.

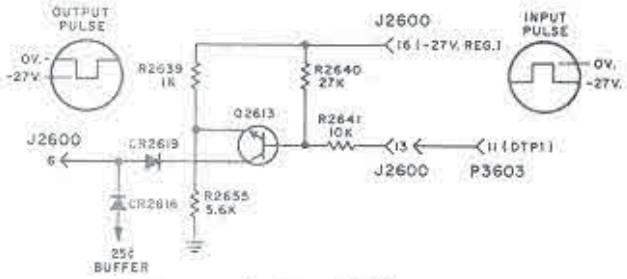


FIGURE 7. Data Buffers.

COIN SWITCH BUFFERS

Normally the coin switch buffers are nonconducting. When a coin passes through a coin switch, a negative voltage is applied to one of the buffer bases, Q2608, Q2609, Q2610 or Q2611 through the closed coin switch from the DTP1 side of the coin switch forward biasing a buffer. This places a +8.2 voltage pulse on one of the data lines; brown, red, orange or blue wires of the ten conductor cable. This positive pulse is used in those digital phonographs equipped with a Digital Recording Income Totalizer, Type DRIT-56 to register the coins deposited in the Digital Consolettes.

The coin pulses and digital selection codes are multiplexed on the same red, brown, orange and blue wires of the ten conductor cable. This is possible due to the positive polarity sensitive input of the DRIT-56 and the negative polarity sensitive input of the receiver buffers of the control center of the digital phonograph. Many negative selection data pulses could occur during a 30 milisecond positive coin pulse without interfering with each other.

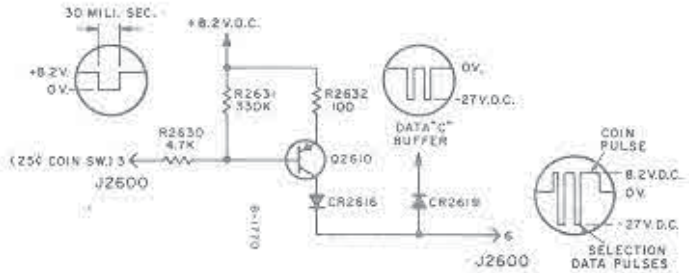


FIGURE 8. Coin Switch Buffers.

DIGITAL ELECTRONIC CONSOLETTE INTERFACE BOARD

AUDIO CONTROL CIRCUIT

Audio relay K3600 is de-energized when power is first applied and the Consolette speakers are turned off. SCS2601 and SCS2602 will conduct through the forward biased Q2605 in that the gate circuits of the Silicon Control Switches will have a positive going voltage applied to their gates. The conduction of SCS2602 places the base of Q2602 at ground preventing it from conducting.

Upon making a selection a positive going pulse from the DTP1 will be applied to the base of Q2606. This turns on Q2606 applying a ground or negative going pulse to Q2605, turning it off. SCS2601 and SCS2602 then loses its cathode circuit momentarily, turning them off. Q2602 now has its base tied back to +27 VDC turning it on energizing K3600 turning on the Consolette speakers.

As the mechanism scans in the Digital Phonograph, a ground pulse will appear on the violet audio control wire in the ten conductor cable connected to the Digital Consolette from the audio control switch 8M2 of the Select-O-Matic mechanism. This ground pulse is applied to Q2601 turning it off momentarily. The collector of Q2601 going positive charges C2603 applying a positive pulse to the gate of SCS2601 turning it on. The conduction of SCS2601 forward biases CR2602 and discharges C2606 so that the next ground pulse from 8M2 will cause the positive pulse of Q2601 to be applied through CR2602 to SCS2602 turning it on. Whenever SCS2602 conducts, Q2602 will be turned off, de-energizing audio relay K3600.

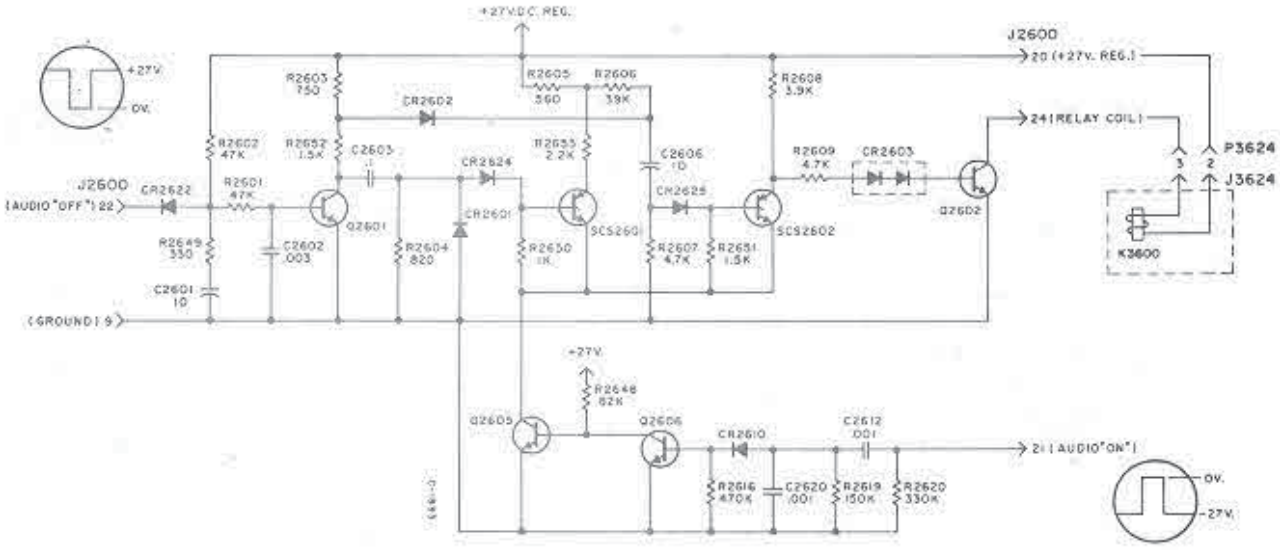


FIGURE 9. Audio Control Circuit.

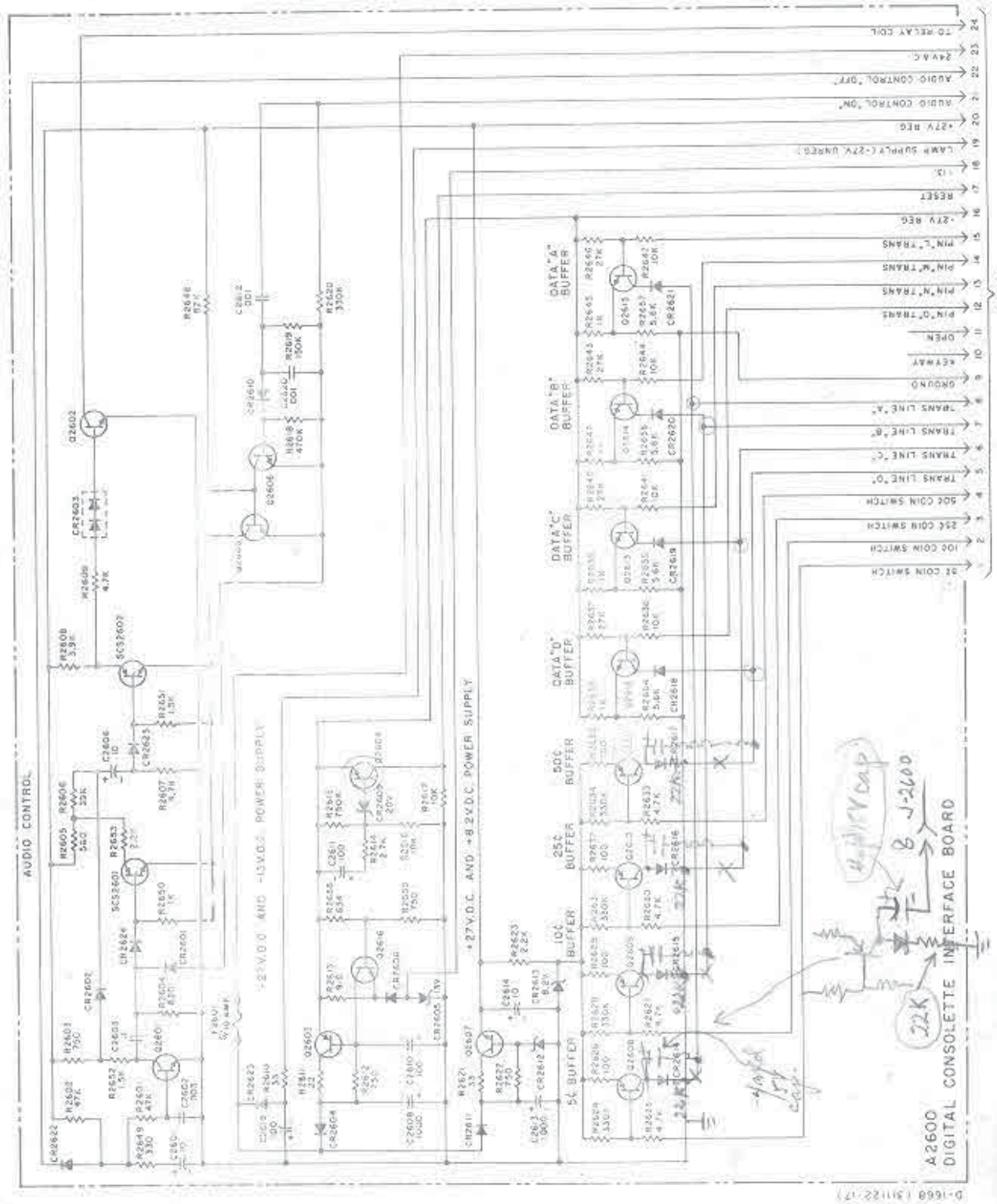
DIGITAL ELECTRONIC CONSOLETTE, Types DEC110, DEC125, DEC210 and DEC225 Page 5

CONSOLETTE INTERFACE BOARD SCHEMATIC

NOTES:
1. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

P.C. BOARD CONNECTOR DESIGNATION

PRINTED CIRCUIT BOARD LEGEND	
DEC 1 CODE LETTER	A2600 IDENTIFICATION
A	311110-1
A	311110-2
A	311110-3
A	311110-4



PARTS LIST FOR CONSOLETTE INTERFACE SCHEMATIC

Item	Part No.	Description
A2600	311110	Digital Consolette Interface Board Assem.
C2601	87743	10, 35 V. Lytic
C2602	86278	.003, 500 V. Ceramic
C2603	86316	.1, 100 V. Ceramic
C2606	87743	10, 35 V. Lytic
C2608	87759	1000, 50 V. Lytic
C2610	87700	100, 35 V. Lytic
C2611	87700	100, 35 V. Lytic
C2612	86309	.001, 500 V. Ceramic
C2613	87759	1000, 50 V. Lytic
C2614	87743	10, 35 V. Lytic
C2619	87695	100, 50 V. Lytic
C2620	86309	.001, 500 V. Ceramic
CR2601	309481	Silicon Diode, 40 Piv
CR2602	309481	Silicon Diode, 40 Piv
CR2603	309478	Silicon Stabistor
CR2604	309476	Silicon Rectifier, 100 Piv, 1 A
CR2605	309613	13 V. Zener Diode, 1 W., 5%
CR2606	309384	Silicon Diode, 170 Piv
CR2609	309487	20 V. Zener Diode, 400 MW, 10%
CR2610	309481	Silicon Diode, 40 Piv
CR2611	309476	Silicon Rectifier, 100 Piv, 1 A
CR2612	309611	27 V. Zener Diode, 1 W., 5%
CR2613	309612	8.2 V. Zener Diode, 500 MW, 10%
CR2614 to CR2622	309481	Silicon Diode, 40 Piv
CR2623	309476	Silicon Diode, 100 Piv, 1 A
CR2624 CR2625	309481	Silicon Diode, 40 Piv
F2601	311112	6/10 Amp. Fuse
J2600		P.C. Board (A2601)
Q2601 Q2602	309684	NPN
Q2603	309457	PNP
Q2604 Q2605 Q2606	309684	NPN
Q2607	309459	NPN
Q2608 to Q2611	309683	PNP
Q2612 to Q2615	309684	NPN
Q2616	309683	PNP
R2601 R2602	82444	47,000
R2603	82161	750, 5%
R2604	82423	820
R2605	82421	560
R2606	82443	39,000
R2607	82432	4,700
R2608	82431	3,900
R2609	82432	4,700
R2610	81290	33, W.W., 2 W.
R2611	81230	22, W.W., 2 W.
R2612	82161	750, 5%
R2613	82661	910, 5%
R2614	82429	2,700
R2615	82607	750,000, 5%
R2616	82436	10,000
R2617	82436	10,000
R2618	82456	470,000
R2619	82450	150,000
R2620	82454	330,000
R2621	81290	33, W.W., 2 W.
R2622	82161	750, 5%
R2623	82428	2,200
R2624	82454	330,000
R2625	82432	4,700
R2626	82412	100
R2627	82432	4,700
R2628	82454	330,000
R2629	82412	100
R2630	82432	4,700
R2631	82454	330,000
R2632	82412	100
R2633	82432	4,700
R2634	82454	330,000
R2635	82412	100
R2636	82424	1,000
R2637	82441	27,000
R2638	82436	10,000
R2639	82424	1,000
R2640	82441	27,000
R2641	82436	10,000
R2642	82424	1,000
R2643	82441	27,000
R2644	82436	10,000
R2645	82424	1,000
R2646	82441	27,000
R2647	82436	10,000
R2648	82447	82,000
R2649	82418	330
R2650	82424	1,000
R2651	82426	1,500
R2652	82426	1,500
R2653	82428	2,200
R2654	82433	5,600
R2655	82433	5,600
R2656	82433	5,600
R2657	82433	5,600
R2658	82576	634, 1%
R2659	82577	750, 1%
SCS2601	309510	Reverse Blocking Thyristor
SCS2602	309510	Reverse Blocking Thyristor

NOTES:

1. Unless otherwise specified all resistors are in ohms, ½ watt & 10%.
2. Unless otherwise specified all capacitors are in microfarads.

PARTS LIST FOR CONSOLETTE FRONT DOOR ASSEMBLY AND BACK ASSEMBLY

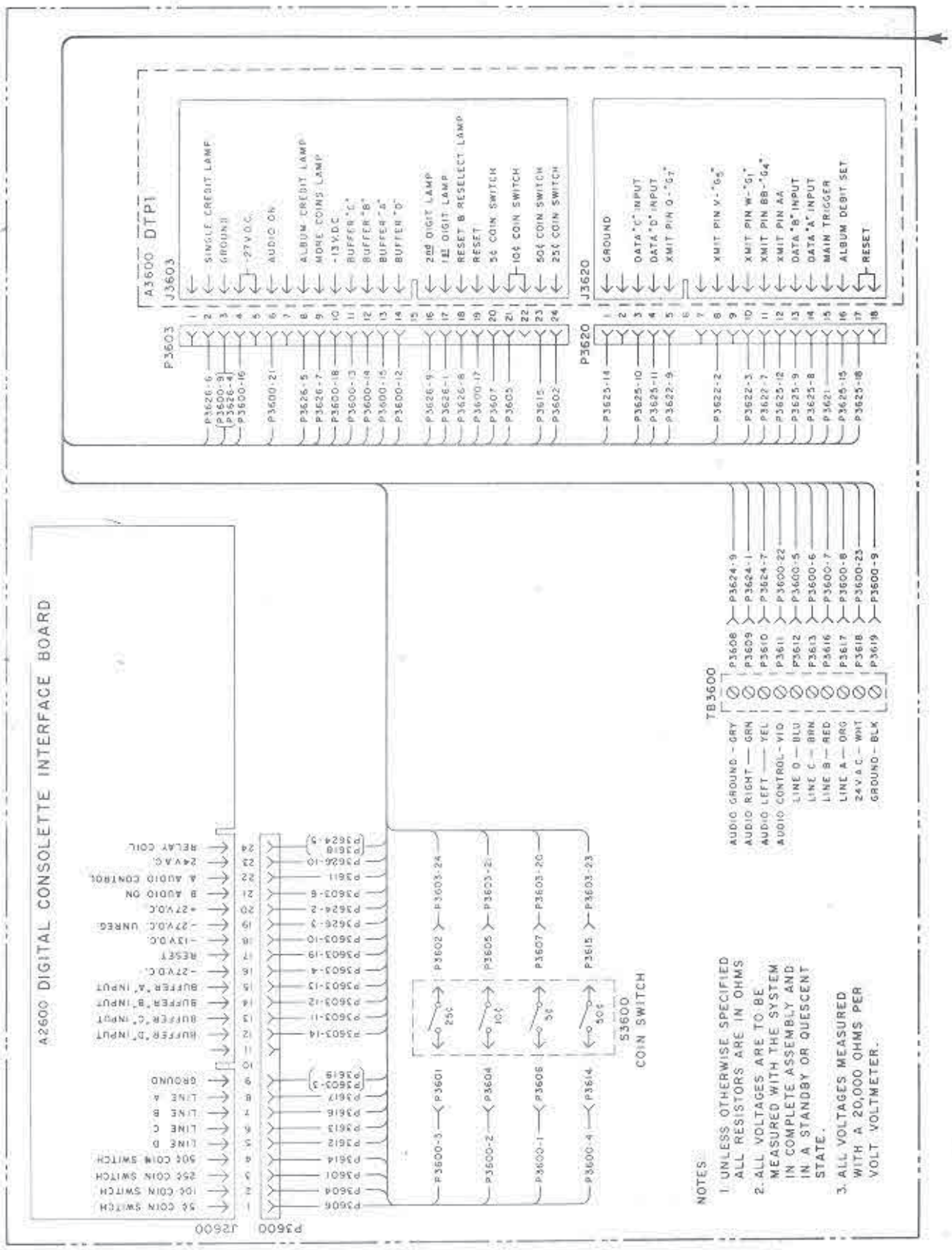
Item	Part No.	Description
A2600	311110	Power Supply
A3600	311000	"DTP1" Digital Transmitter & Pricing
A3601	412000	"DES1" Digital Electronic Switch
A3602	515835	Volume Control Assembly
A3603	515852	Light Board Assembly
CR3600	309384	Silicon Diode
I3600	507522	No. 19 Lamp
I3601	507522	No. 19 Lamp
I3602	507522	No. 19 Lamp
I3603	318029	No. 1819 Lamp
I3604	318029	No. 1819 Lamp
I3605	318029	No. 1819 Lamp
I3606	318029	No. 1819 Lamp
I3607	318029	No. 1819 Lamp
I3608	318029	No. 1819 Lamp
I3609	507522	No. 19 Lamp
K3600	515842	D.C. Relay
LS3600	515865	Speaker
LS3601	515865	Speaker
R3600	81255	15 W.W. 2 W.
R3601	81234	220 W.W. 2 W.
R3602	82406	33
R3603	82406	33
R3604	81255	15 W.W. 2 W.
R3605	81234	220 W.W. 2 W.
R3606 to R3611	82412	100
R3612	81235	56 W.W. 2 W.
R3613	81235	56 W.W. 2 W.
S3600	421281	Coin Switch Assembly
S3601	515840	Switch Assembly
S3602	515840	Switch Assembly
TB3600	515755	Terminal Strip
W3600	515716	Cable Assembly

NOTE 1: Unless otherwise specified all resistors are in ohms, ½ watt and 10%

NOTE 2: Unless otherwise specified all capacitors are in microfarads.

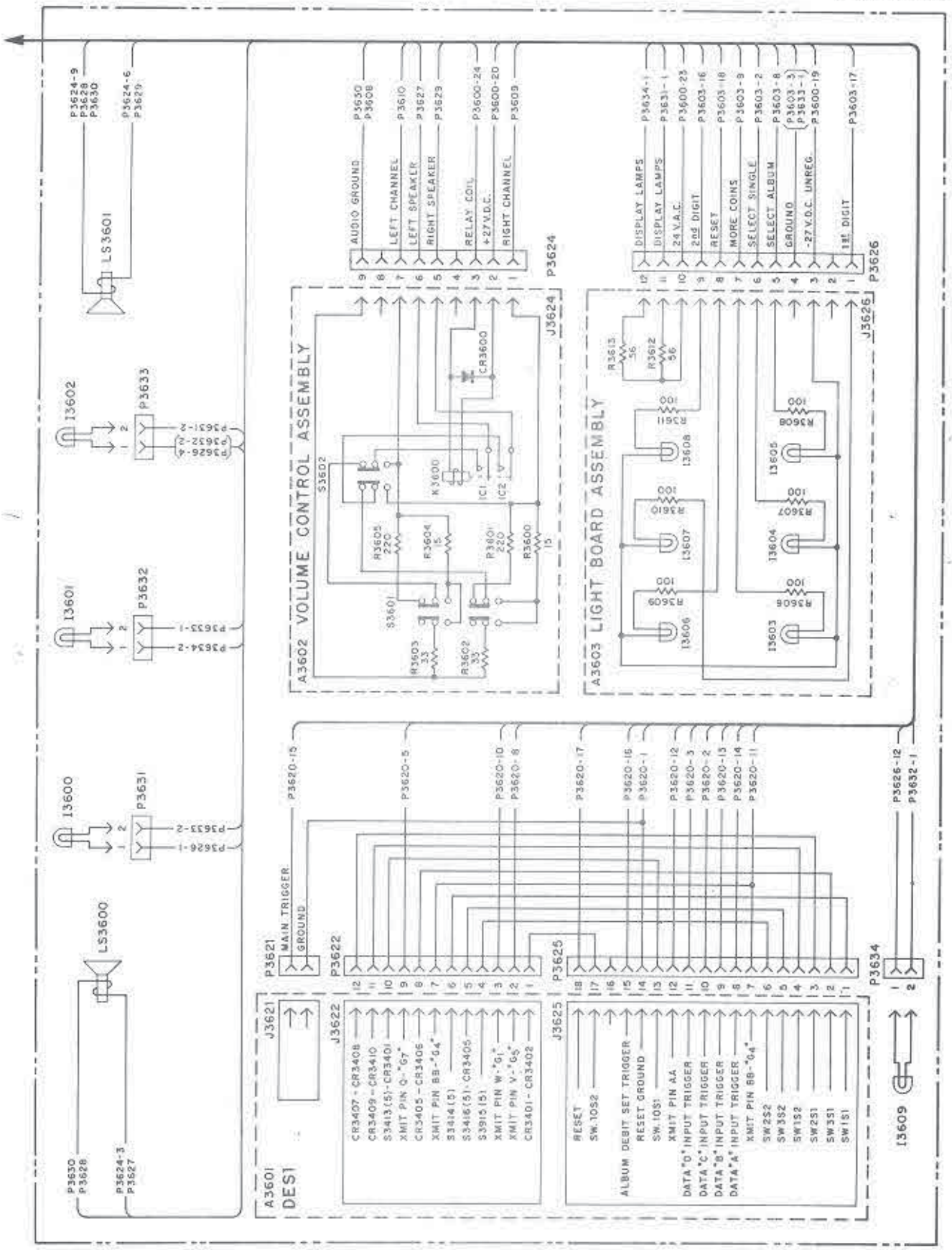
Part 1 of 2

CONSOLETTE BACK ASSEMBLY SCHEMATIC



Part 2 of 2

CONSOLETTE FRONT DOOR ASSEMBLY SCHEMATIC



SEEBURG

DIGITAL TRANSMITTER PRICING UNIT, Type DTP1

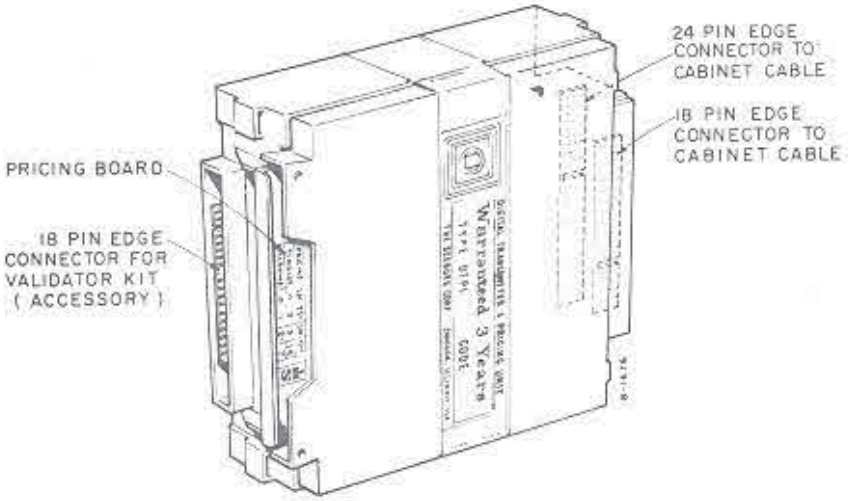


FIGURE 1. Digital Transmitter Pricing Unit, Type DTP1.

GENERAL

The Digital Transmitter Pricing Unit, Type DTP1 has no moving parts; all logic functions are performed by solid state circuitry incorporating the latest in microelectronic technology which includes MOS (metal oxide silicon) devices. The Digital Transmitter Pricing Unit, Type DTP1 is a factory sealed unit carrying a 3-year warranty detailed in the Warranty Certificate on the phonograph.

Basically this unit can be divided into two parts:

1. Pricing Functions
2. Selection Transmitter Functions.

1. Pricing Functions –

The Type DTP1, Digital Transmitter Pricing Unit includes the feature of Actual Cash Value Bonus. With this feature any 25 cent combination of nickels and dimes deposited in succession gives the same credit as a quarter and likewise any 50 cent combination of nickels, dimes and quarters deposited in succession gives the same credit as a half dollar.

Three credit lamps are associated with the pricing functions:

a. "Deposit More Coins" lamp lights when an insufficient number of coins have been deposited for a single selection.

b. "Select Any Single" and "Select Any Album" lamps will light when appropriate credit has been established.

A Programmed Pricing Board is needed in each unit. Five Pricing Boards are presently available. See Figure 2.

In order to set the phonograph on "Free Play" merely remove the Pricing Board from the Digital Transmitter Pricing Unit and the Credit System will automatically be programmed for Free Play.

2. Selection Transmitter Functions –

The transmitter portion of the Digital Transmitter Pricing Unit accepts and stores selection information received from the selector, on four data input lines, until the selection is completed. At the time the third digit is pressed on the selector, the complete selection information is transmitted on four data transmission lines through the Digital Control Center, Type DCC1 to the Digital Receiver Decoder Unit, Type DRD1 in a period of approximately 1 millisecond.

NOTE:

The Digital Transmitter Pricing Unit is a factory sealed unit, carrying a 3-year Warranty. Breaking the Factory Seal Automatically Voids Warranty.

DIGITAL TRANSMITTER PRICING UNIT, Type DTP1

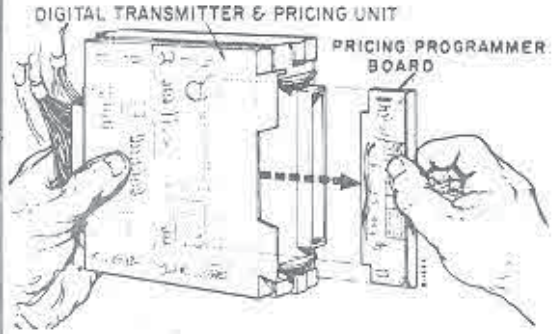
CAUTION NOTE:

If it becomes necessary to replace the Digital Transmitter Pricing Unit, Type DTP1, BE SURE TO CHECK –27 V. SUPPLY in Consolette Power Board. Use a voltmeter or a 28 V. Test Lamp Socket, Part No. 133720, using a No. 1819 bulb ONLY, Part No. 318029. Amount of illumination on +27 V. and –27 V. supply should be the same. Remove white push-on connector from TB3600 to turn off power of DEC before unplugging DTP1.

PRICING

	PRICING WINDOW	PRICING PROGRAMMER	STANDARD IN MODEL
2 FOR 25 CENTS Part No. 515720	DEPOSIT 10¢, 25¢, 50¢ OR $1.00 IN MIXED COINS SINGLES: 1 SELECTION ..... 10¢; 3 SELECTIONS ..... 25¢; 6 SELECTIONS ..... 50¢; 12 SELECTIONS ..... $1.00 ALBUMS: PER SIDE ..... 25¢; 2 SIDES ..... 50¢; 4 SIDES $1.00	310103 14 SINGLES = $ BILL	DEC125 & DEC225
		310102 12 SINGLES = $ BILL	DEC125 & DEC225
10 CENTS Part No. 515718	DEPOSIT 25 CENTS 50 CENTS OR $1.00 IN MIXED COINS 2 SINGLES ..... 25¢ OR QUARTER 5 SINGLES ..... 50¢ IN MIXED COINS 10 SINGLES ..... $1.00 IN MIXED COINS ALBUMS: PER SIDE ..... 25¢; 2 SIDES PLUS 1 SINGLE ..... 50¢; 5 SIDES $1.00	310101 15 SINGLES = $ BILL	Pricing Modification
7 FOR 50 CENTS Part No. 515953	DEPOSIT 10 CENTS 25 CENTS 50 CENTS OR $1.00 IN MIXED COINS 1 SINGLE ..... DIME OR 2 NICKLES 3 SINGLES ..... 25¢ OR QUARTER 7 SINGLES ..... 50¢ IN MIXED COINS 14 SINGLES ..... $1.00 IN MIXED COINS ALBUMS: PER SIDE ..... 25¢; 2 SIDES PLUS 1 SINGLE ..... 50¢; 4 SIDES PLUS 2 SINGLES $1.00	310104 15 SINGLES = $ BILL	Pricing Modification
1 FOR 25 CENTS Part No. 516191	DEPOSIT 25 CENTS 50 CENTS OR $1.00 IN MIXED COINS 1 SINGLE ..... 25¢ OR QUARTER 3 SINGLES ..... 50¢ IN MIXED COINS 6 SINGLES ..... $1.00 IN MIXED COINS ALBUMS: 2 SIDES ..... 50¢; 4 SIDES $1.00	310105 7 SINGLES = $ BILL	Pricing Modification

CHANGE OF PRICING – To obtain other pricing setups, simply change the Pricing Programmer and Pricing Window. Any available Pricing Programmer may be used with the DTP1. The proper combination of Pricing Programmers and Pricing Windows are as shown in diagram to the left.



REMOVING PROGRAMMER BOARD

NOTE:
Pricing Programmers, Part Nos. 310102 and 310103 may be used interchangeably, unless a Dollar Bill Validator is installed in the phonograph. The Part No. 310103 Programmer is then used where it is desired to give 14 selections for a dollar bill. For 12 selections for a dollar bill, use Pricing Programmer Part No. 310102.

Figure 2. Five Pricing Boards.

DIGITAL TRANSMITTER PRICING UNIT, Type DTP1

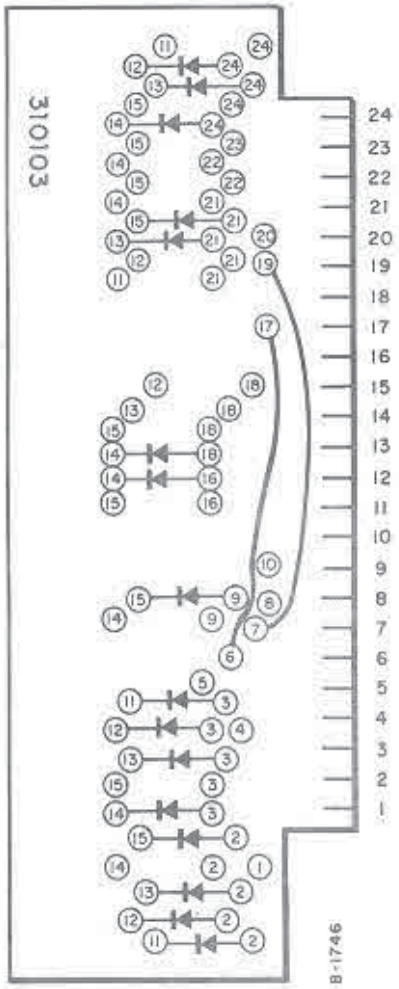


Figure 3a.

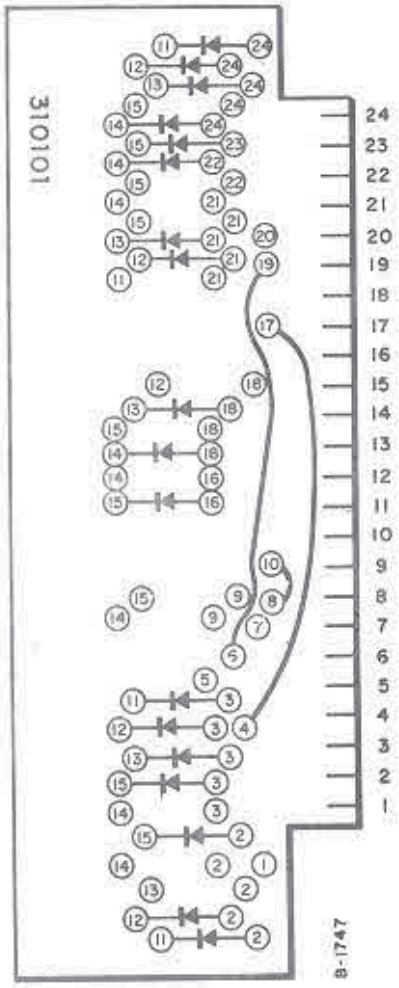


Figure 3b.

Figures 3a and 3b. Typical Pricing Program Boards.

PRICING PROGRAM BOARD

1. KEYED –

The Pricing Program Board is keyed to prevent insertion in Digital Transmitter Pricing Unit improperly. The decal side (where the program diodes are mounted) should be towards the right side. See Figures 3a and 3b.

CAUTION:

Pricing Boards edge connector must be fully seated to ensure proper credit operation. Too much credit or too little credit could result with improper seating of Pricing Board.

2. TROUBLE SHOOTING –

Circled numbers on typical Pricing Program Boards in Figure 3 represent pin numbers of edge connector for convenience in measuring front to back continuity of program diodes. Typical front to back continuity of a properly working program diode would be measured with negative lead connected to the edge connector pin number on the left side of the diode and the positive lead to the pin number on the right side, see Figures 3a and 3b. A low resistance should be measured. Reversing meter leads should show an increase of at least 1000 times first reading.

CAUTION:

Use a low wattage soldering iron to remove or replace a program diode. A 25 watt soldering iron is sufficient.

Types DEC110, DEC125, DEC210, DEC225