DCX PACKAGING

- I. Each circuit board should be shipped in a plastic bag with (except internal power supply):
 - 1 The circuit board.
 - 2 4 Screws.
 - 3 Front label.
 - 4 Back label.
 - 5 Manual (2 pages stapled) (3 pages for tt controller)
- II. Each universal box should be shipped with :
 - 1 2 Black labels taped to the inside.
 - 2 4 Sheet metal screws
 - III. Each external power supply should be shipped with:
 - 1 Manual (2 pages, stapled)
- IV. Each internal power supply board should be shipped with:
 - 1 The circuit board.
 - 2 4 Screws.
 - 3 Front label.
 - 4 Rear label.
 - 5 Manual (2 pages, stapled)
 - 6 DC jumper cord (spade-lugs each end)
 - 7 AC cord (spade lugs one end)
 - 8 Internal strain relief

 $\Phi_{\mathbf{z}} = \Phi_{\mathbf{z}} = \Phi_{\mathbf{z}}$ (1)

The DCX Network INTERNAL From Radio Systems POWER SUPPLY

The DCX series from Radio Systems offers quality professional broadcast electronics in a low cost modular package.

DCX boards are available separately and may be powered by a common, external DC power supply. This results in reductions in costs, noise levels, and package size.

DCX units come pre-assembled, factory tested, and ready for mounting in the DCX universal enclosure. Each enclosure will accommodate two DCX circuit boards. Boards can be intermixed to create a variety of functional combinations, or a single board can be combined with an internal power supply to create a stand-alone unit.

Assembly

- Tilt board forward and insert controls through front panel holes, lower rear of board into enclosure.
- Reposition circuit board to align mounting holes.
- Insert and tighten mounting screws.
- Punch out label holes and affix front and rear panel labels. Front labels can be re-positioned if removed quickly, but adhere permanently after several hours.
- Install second board if the slot is not used, black labels are supplied to cover unused front and rear panel holes.
- Mount knobs on shafts (for DC-HP and DC-PW).
- Install cover (4 screws). If the unit is to be surface mounted, the cover must be installed after mounting.

Wiring

- Use of spade lugs is recommended.
- Connect the DC power terminals +, -, G, to the regulated 18v + /- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DCK boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

- Install the model DC-PS18W internal power supply in the right hand side of the universal cabinet and label the box as described above.
- Remove the hole plug in the rear upper left of the cabinet and insert the power
- Wire the two AC space lugs to the two red screws closer to the front of the circuit board. The rear screw terminal is provided for ground.
- Crimp the strain relief around the cord firmly and insert into the hole until it clicks in place.

Warranty

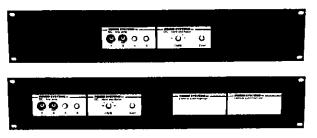
Radio Systems warrants for one year from date of purchase, parts and labor on any unit returned to us for repair. Before a unit can be returned, a return authorization number must be obtained from Radio Systems. Repair and return of the unit will be made promptly. Within the warranty period, there is no charge for this service on units which show no sign of misuse or unauthorized alterations.

DCX Circuitboard	Model Number	Input Imp (in ohms)	Max. Output Level	THD (Note 1)	Signal/Noise (Note 2)	Channel Separation	Power Consumption	Configuration
5 Mic Pre-amp	DC-5MA	150	+26 dbm	.02%	-97 db	>97 db	7 watts	5 ch.
Phono Pre-amp	DC-PA	47K	+22 dbm	.05%	-70 db	>70 db	2.5 watts	dual/stereo
Line Amp	DC-LA/F DC-LA/S	47K	+25 dbm	.02%	-80 db	>80 db	2.5 watts	dual/stereo
Mic Pre-amp	DC-MA	150	+25 dbm	.03%	-80 db	>80 db	2.5 watts	dual
Headphone	DC-HP	20K	½ watt (10 v RMS high Z)	.01%	-90 db	>90 db	6.5 watts	2 chstereo
Power Amp	DC-PW	. 20K	12 watts	.02%	-80 db	_	18 watts	mono
Oscillator	DC-OS	-	+24 dbm	.05%	_	_	1.5 watts	one channel
Synchronizers	DC-TTS DC-TAS		_				self powered 1 watt	single

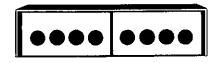
NOTE 1: THD is measured at maximum output before clipping into 600 ohms (8 ohms for the power and headphone amps).

NOTE 2: Signal to noise measured A weighted, input terminated (where applicable), relative to maximum output. Noise is degraded by approximately 6 db with use of internal power supply.

NOTE3: Add power consumption of boards to determine the total number which can be utilized with a common power supply. Internal supply provides 18 watts. External supply provides 36 watts.



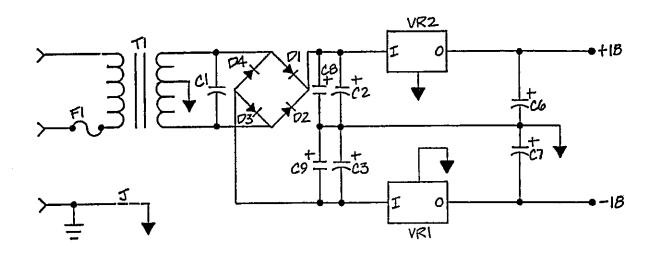
DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 3½" H x 19" W



DCX Universal Cabinet Model DC-CBU Dimensions: 1%" H x 7¾" W x 6¼" D



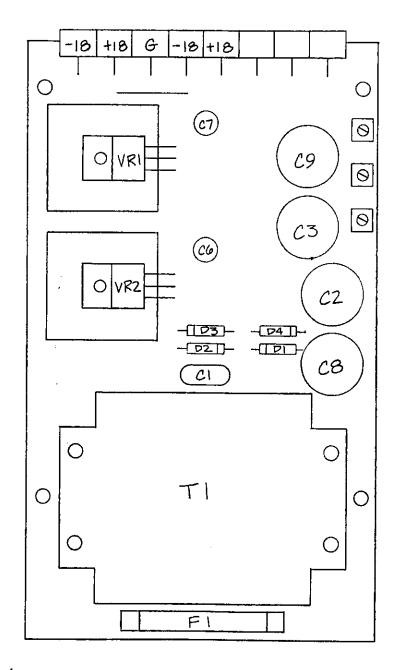
DCX Power Supply-External Model DC-PS36X DCX Power Supply-Internal Model DC-PS18I (not shown) Dimensions: 134" H x 336" W x 534" D



DCX Internal Power Supply

1985 @ RADIO SYSTEMS, INC

PAGE	1 ASSY	/# 3051 R	S DCX	INTERNAL POWER SUPPLY	01 (DCT 1987
REF-DE	ES		1	DESC	PART#	aty. UM
			-	TERMINAL BLOCK 8 PIN CLIP FUSE SCREW 6-32 3/8 PANHEAD WASHER LOCK #6 HEAT SINK AAVID 5750B SCREW PANHEAD 6-32X1/4 NUT SM PT 6-32 CORD 18/2 PVT1 BROWN STRAIN RELIEF 822 PCB RSM PSM-B DCX INT.PWR SUP LABEL DCX FRONT LABEL DCX REAR BAG ZIPLOCK 6X8 BAG ZIPLOCK 6X8 BAG ZIPLOCK 3 X 4 DCX JUMPER FORK TERMINAL RED SCREW TERMINAL PC MOUNT #1478 CAP .1 UF MYLAR CAP 1000 UF 35V POL. CAP 15 UF POL 35V DIODE 1N4004 FUSE 1/4 AMP SLO BLO TRANSFORMER PF12-34 VR MC7918CT VR MC7818CT	1003	1 EA
			,	CCPEN 6-30 3/0 DANGEAR	1074	2 EA
			·	MOCHED LUCK WE MOCHED LUCK WE	1091	2 EA
			i	HEAT SINK AQUID 5750R	1174	6 EA 2 EA
			ġ	SCREW PANHEAD 6-32X1/4	1157	4 EA
				NUT SM PT 6-32	1159	2 EA
			į	CURD 18/2 PVT1 BROWN	2959	1 EA
			•	DUB BOW DOW'D DUA INT UMB GHU	2050 2050	1 EA 1 EA
			i	LOBEL DOX EBONT	3147	1 EA
			ĺ	LABEL DCX REAR	3148	1 EA
]	BAG ZIPLOCK 6X8	3149	1 EA
			i	BAG ZIPLOCK 3 X 4	3150	2 EA
			1	DCX JUMPER	3151	i EA
			F	FORK TERMINAL RED	3152	2 EA
			5	SCREW TERMINAL PC MOUNT #1478	3153	3 EA
C1			0	CAP .1 UF MYLAR	1013	1 EA
C2;C3;	C8;C9		(CAP 1000 UF 35V POL.	1080	4 EA
C6;C7			C	CAP 15 UF POL 35V	1026	2 EA
D1-D4				DIODE 1N4004	1020	4 EA
F1			F	FUSE 1/4 AMP SLO BLO	1083	1 EA
T1				TRANSFORMER PF12-34	3053	1 EA
VR1 VR2				VR MC/918CT	7070	1 EA
VKE			'	VR MU7818U1	7069	1 EA



DCX Internal Power Supply 1985@RADIOSYSTEMS, INC.

PHONO PRE

The DCX Network From Radio Systems

The DCX series from Radio Systems offers quality professional broadcast electronics in a low cost modular package.

DCX boards are available separately and may be powered by a common, external DC power supply. This results in reductions in costs, noise levels, and package size.

DCX units come pre-assembled, factory tested, and ready for mounting in the DCX universal enclosure. Each enclosure will accommodate two DCX circuit boards. Boards can be intermixed to create a variety of functional combinations, or a single board can be combined with an internal power supply to create a stand-alone unit.

Assembly

- Tilt board forward and insert controls through front panel holes, lower rear of board into enclosure.
- Reposition circuit board to align mounting holes.
- Insert and tighten mounting screws.
- Punch out label holes and affix front and rear panel labels. Front labels can be re-positioned if removed quickly, but adhere permanently after several hours.
- Install second board if the slot is not used, black labels are supplied to cover unused front and rear panel holes.
- Mount knobs on shafts (for DC-HP and DC-PW).
- Install cover (4 screws). If the unit is to be surface mounted, the cover must be installed after mounting.

Wiring

- Use of spade lugs is recommended.
- Connect the DC power terminals +, -, G, to the regulated 18v +/- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DC% boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

- Install the model DC-PS18W internal power supply in the right hand side of the universal cabinet and label the box as described above.
- Remove the hole plug in the rear upper left of the cabinet and insert the power cord.
- Wire the two AC space lugs to the two red screws closer to the front of the circuit board. The rear screw terminal is provided for ground.
- Crimp the strain relief around the cord firmly and insert into the hole until it clicks in place.

Warranty

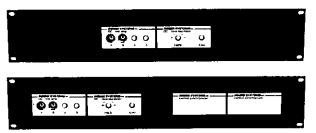
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DCX Circuitboard	Model Number	Input Imp (in ohms)	Max. Output Level	THD (Note 1)	Signal/Noise (Note 2)	Channel Separation	Power Consumption	Configuration
5 Mic Pre-amp	DC-5MA	150	+26 dbm	.02%	-97 db	>97 db	7 watts	5 ch.
Phono Pre-amp	DC-PA	47K	+22 dbm	.05%	-70 db	>70 db	2.5 watts	dual/stereo
Line Amp	DC-LA/F DC-LA/S	47K	+25 dbm	.02%	-80 db	>80 db	2.5 watts	dual/stereo
Mic Pre-amp	DC-MA	150	+25 dbm	.03%	-80 db	>80 db	2.5 watts	dual
Headphone	DC-HP	20K	½ watt (10 v RMS high Z)	.01%	-90 db	>90 db	6.5 watts	2 chstereo
Power Amp	DC-PW	20K	12 watts	.02%	-80 db		18 watts	топо
Oscillator	DC-OS	_	+24 dbm	.05%			1.5 watts	one channel
Synchronizers	DC-TTS DC-TAS		_	_	_		self powered 1 watt	single

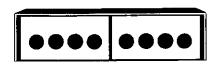
NOTE 1: THD is measured at maximum output before clipping into 600 ohms (8 ohms for the power and headphone amps).

NOTE 2: Signal to noise measured A weighted, input terminated (where applicable), relative to maximum output. Noise is degraded by approximately 6 db with use of internal power supply.

NOTE3: Add power consumption of boards to determine the total number which can be utilized with a common power supply. Internal supply provides 18 watts. External supply provides 36 watts.



DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 3½"H x 19"W

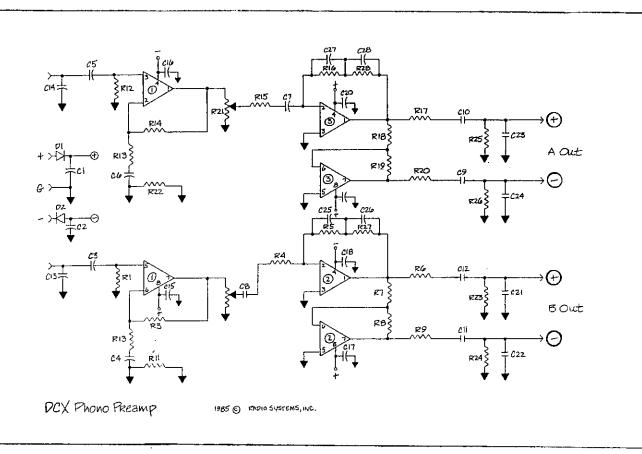


DCX Universal Cabinet Model DC-CBU Dimensions: 1%" H x 7¾" W x 6¼" D

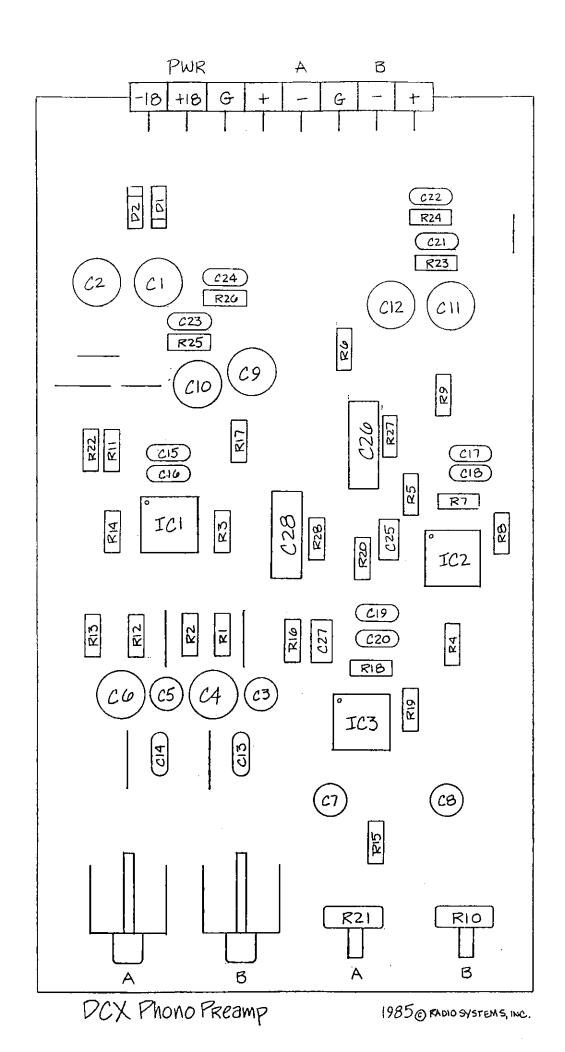


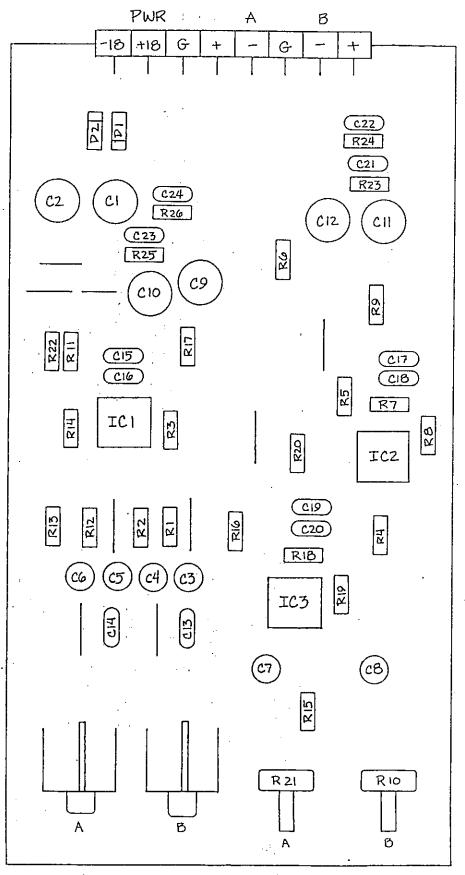
DCX Power Supply-External Model DC-PS36X
DCX Power Supply-Internal Model DC-PS18I (not shown)
Dimensions: 1¾" H x 3%" W x 5¾" D





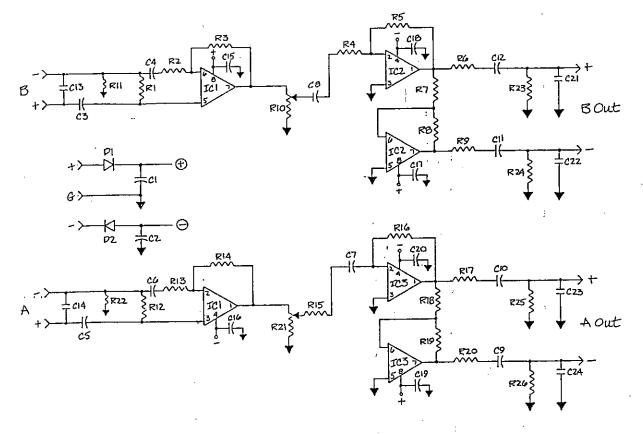
PAGE 1 ASSY# 1111 PHONO 1	PRE-AMP, DCX 17 FE	1986	
REF-DES	DESC	PART#	QTY. UM
	TERMINAL BLOCK, 8 PIN	1003	1 EA
	SOCKET, 8 PIN	1011	ЗЕА
	Washer, Lock #6	1093	4 EA
	PCB, TRI AMP DCX RSM PRDC	1100	1 EA
	PHONO JACK, NTT333-15	1101	2 EA
	SCREW, PANHEAD 6-32X1/4	1157	4 EA
	RES, 47K 1/2W 5%	2827	2 EA
	LABEL, DCX FRONT	3147	1 EA
	LABEL, DCX REAR	3148	1 EA
	BAG, ZIPLOCK 6X8	3149	1 EA
m	BAG, ZIPLOCK 3 X 4	3150	2 EA
C1-C2	CAP, 220 UF 25V POL.	1021	2 EA
C13;C14	CAP, 100 PF SILVER MICA	1102	2 EA
C15-C20	CAP, .1 UF MYLAR	1013	6 EA
C21-C24	CAP, .001 UF CERAMIC DISC	1103	4 EA
C25; C27	CAP, 1500 PF POLY	1046	2 EA
C25; C28	CAP, 5600 PF POLY	1112	2 EA
C3-C5	CAP, 2.2 UF 50V NP	2763	2 FA
C4;C6;C9-C12	CAP, 100 UF 16/25V NP	1049	6 EA
C7-C8	CAP, 10UF 25V NP	1014	2 EA
D1-D2	DIODE, 1N4004	1020	2 EA
101-103	IC, 5532	1010	3 EA
R10; R21	POT, 10K PT15WB	1105	2 EA
R11;R22	RES, 2.2 OHM 1/4W 5%	1104	2 EA
R2-R13	RES, 75 OHM 1/4W 1%	1140	2 EA
R27-R28	RES, 562K 1/4W 1%	1114	2 EA
R3;R14	REŞ, 2.2K, 1/4W, 5%	1016	2 EA
R4;R15	RES, 5.6K 1/4W 5%	1117	2 EA
K5; R16 ·	RES, 49.9K 1/4W 1%	1113	2 EA
K6; R9; R17; R20	RES, 100 OHM 1/4W 5%	1033	4 EA
C1-C2 C13;C14 C15-C20 C21-C24 C25;C27 C26;C28 C3-C5 C4;C6;C9-C12 C7-C8 D1-D2 IC1-IC3 R10;R21 R11;R22 R2-R13 R27-R28 R3;R14 R4;R15 R5;R16 R6;R9;R17;R20 R7;R8;R18;R19;R23-R26	RES, 100 OHM 1/4W 5% RES, 10K 1/4W 5%	1017	8 EA





DCX Line Amp.

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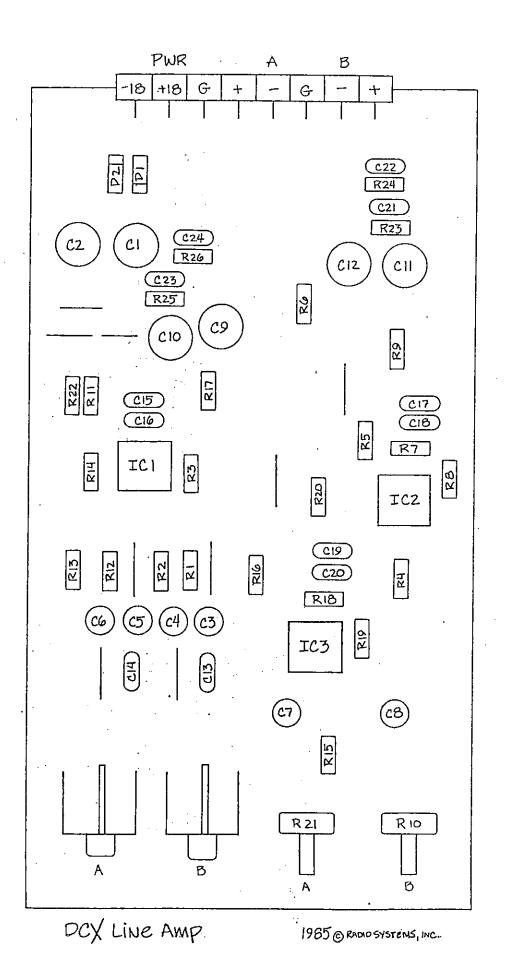


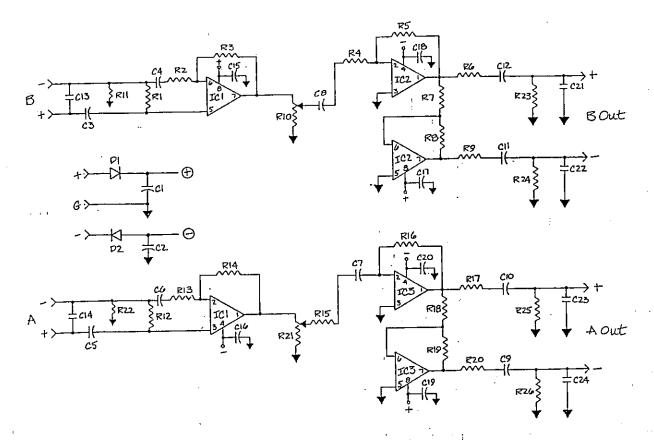
DCX Line Amp

1905 @ RADIO SYSTEMS, WC

PAGE	1 /	ASSY#	1099	LINE	AMP,	DCX			. 1	7 FE	B 1986			
REF	-DES			• • • • •	D	ESC.		: • • • • •		• • • •		PART#	GTY.	UM
					1	ERMI	NAL	BLOCK,	8 PI	N		1003		EΑ
					5	OCKE	Τ, 8	PIN				1011	3	EA
					'n	ASHE	R, L	OCK #6	5			1093	4	ΕA
					F	CB. T	'RI A	MP DC	K RSM	PRDC		1100	1	EΑ
					F	номо	JAC	K, NT	r333-1	5		1101	2	EΑ
					2	CREW	, PA	NHEAD	`6-32X	1/4		1157	4	ΕA
					F	RES,	47K	1/28 5	5%			2827	2	EA
	•				I.	ABEL	., DC	X FROM	T			3147	1	EA
					L	ABEL	., DC	X REAL	?			3148	1	ΕA
							PETDI	0011 01				2140	4	EΑ
					F	BAG,	ZIPL	OCK 3	X 4			3150	2	EΑ
C1-	C2				. (CAP,	220	UF 25	V POL.		:C	1021	2	ΕA
C13	-C14				(CAP,	100	PF SI	LVER M	IICA		1102	3	ΕĀ
C15	-C2O				(CAP,	.1 (JF MYL.	AR ·			1013	6	ΕA
C21	-C24				(CAP,	.00	L UF C	ERAMIC	DIS	C	1103	4	EΑ
C3-	CB				(CAP,	1001	257	NP			1014	6	ΕA
C9-	C12				' (CAP,	100	UF 16	/25V H	1P		1049	4	ΕA
D1-	·D2				1	DIODE	E, 11	14004				1020	2	EA
ICi	IC3				;	IC, 5	5532					1010	3	EA
R10)-R21]	POT,	TOK	PT15	WB		*	1105	2	EA
	.;R22					RES,	2.2	OHM 1	/4W 5	%		1104	2	EA
R2-														
	R7;R8;R15	;R18;	R19;R	23-R2	:6	RES,	10K	1/4W	5%			1017	1.0	EA
•	:R16													•
R6;	R9;R17;R2	:0				RES,	100	OHM 1	/4W 5	%		1033	4	EA

* * *





DCX Line Amp

1985 @ RADIO SYSTEMS, NIC

PAGE	1	ASSY#	1099	LINE	AMP,	DCX		:	17	FEB	1986			
REF-	DES				D	ESC.		• • • •				PART#	QTY.	UM
		-			T	ERMI	NAL BL	ock,	8 PIN			1003	. 1	EA
							T, 8 P					1011	3	ΕA
'					W	ASHE	R, LOC	K #6				1093	4	EA
					P	CB, T	RI AMP	DCX	RSM P	RDC		1100	1	EA
							JACK,							EA
					S	CREW,	, PANH	EAD '6	5-32X1	14		1157	4	ΕĀ
					F	ES,	47K 1/	2W 57	•			2827		ΕA
					L	ABEL	, DCX	FRONT	r			3147	1	EA
					I.	.ABEL	, DCX	REAR				3148	1	EA
					E	BAG,	ZIPLOC	K 6X8	3			3149	1	EA
					· I	BAG,	ZIPLOC	жэ:	₹ 4			3150	2	EA
C1-0	2				, . · · (CAP,	220 UF	257	POL.			1021	2	EA
C13-	-C14				(CAP,	100 PF	SIL	VER MI	CA		1102	3	ΕA
C15-	-C20				(CAP,	.1 UF	MYLA	R			1013	6	EA
C21	-C24						.001 l			DISC		1103		EA
¢3-0	8						TOUR 3					1014		EA
C9-0	212				(CAP,	100 U	16/	25V NI	•		1049		EA
D1-3	D 2						E, 1N40					1020		EA
	-IC3						5532					1010		EA
	-R21						10K					1105		EA
	;R22					RES,	2.2 0	HM 1/	4W 5%					EA EA
	R3;R13-F						2.2K,					1016		EA EA
	R7;R8;R1	.5;R18;	:K19;F	(23-R2								1017		EA
R5;							100K					1018		EA
R6;	R9;R17;F	20				KES,	100 0	HU 1/	4W 3%			1033	•	. EA

* * *

HEADPHONE

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<u>Assembly</u>

- Tilt board forward and insert controls through front panel holes, lower rear of board into enclosure.
- Reposition circuit board to align mounting holes.
- Insert and tighten mounting screws.
- Punch out label holes and affix front and rear panel labels. Front labels can be re-positioned if removed quickly, but adhere permanently after several hours.
- Install second board if the slot is not used, black labels are supplied to cover unused front and rear panel holes.
- Mount knobs on shafts (for DC-HP and DC-PW).
- Install cover (4 screws). If the unit is to be surface mounted, the cover must be installed after mounting.

Wiring

- Use of spade lugs is recommended.
- Connect the DC power terminals +, -, G, to the regulated 18v +/- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DC% boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

- Install the model DC-PS18W internal power supply in the right hand side of the universal cabinet and label the box as described above.
- Remove the hole plug in the rear upper left of the cabinet and insert the power cord.
- Wire the two AC space lugs to the two red screws closer to the front of the circuit board. The rear screw terminal is provided for ground.
- Crimp the strain relief around the cord firmly and insert into the hole until it clicks in place.

<u>Warranty</u>

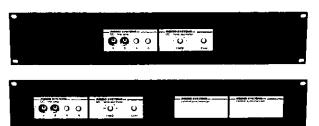
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Synchronizers	DC-TTS DC-TAS	<u> </u>	_	_	_		self powered 1 watt	single

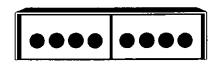
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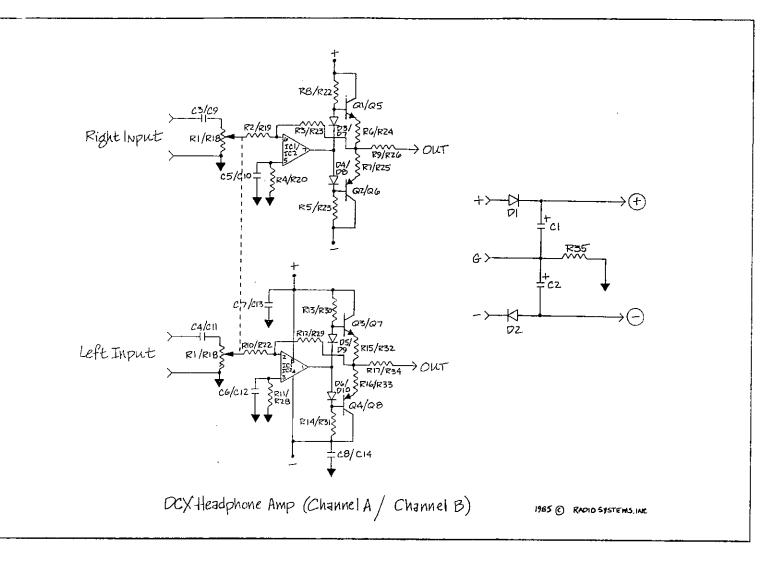
DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 3½" H x 19" W



DCX Universal Cabinet Model DC-CBU **Dimensions:** 1%" H x 7%" W x 6%" D

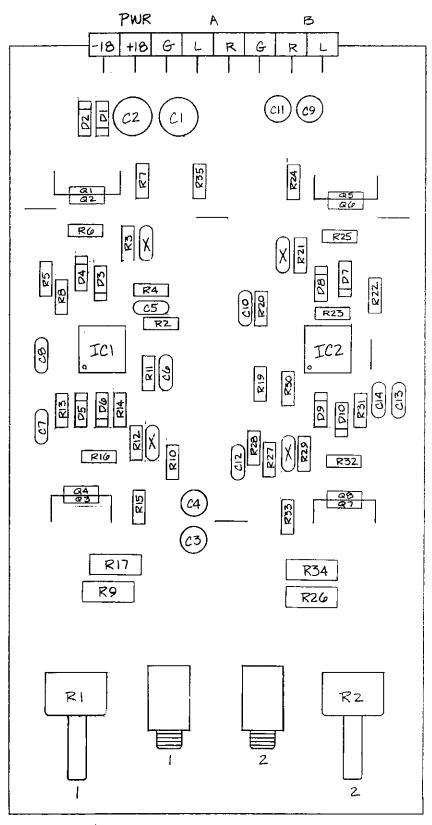


DCX Power Supply - External Model DC-PS36X
DCX Power Supply - Internal Model DC-PS181 (not shown)
Dimensions: 13" H x 3%" W x 534" D



PAGE 1 ASSY# 1001 HEADPHO	NE AMP, DCX	20 FEB	1986		
REF-DES	DESC		PART#	QTY.	UM
	SCREW, PANHEAD 6-32X1/4 KNOB, .245 KNURLED G 101	.2BPC	1003 1004 1008 1011 1093 1157 3146	1 2 4 2 4 4 2	EA EA EA EA EA
C1-C2 C3;C4;C9;C11 C5-C8;C10;C12-C14 D1-D2 D3-D10 IC1-IC2 Q1;Q3;Q5;Q7 Q2;Q4;Q6;Q8 R1;R18	LABEL, DCX FRONT		3147	1	FΑ
IC1-IC2 Q1;Q3;Q5;Q7 Q2;Q4;Q6;Q8 R1;R18 R2;R10;R19;R27 R3-R4;R11-R12;R20-R21;R28-R29 R35 R5;R8;R13-R14;R22-R23;R30-R31 R6-R7;R15-R16;R24-R25;R32-R33 R9;R17;R26;R34	RES, 10K 1/4W 5% RES, 10OK 1/4W 5% RES, 10 OHM 1/4W 5% RES, 2.2K, 1/4W, 5%		1017 1018 1019 1016	4 8 1 8 8	EA EA EA

* * *



DCX Headphone Amp

1985@RADIOSYSTEMS, INC.

The DCX Network From Radio Systems

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Assembly

- Tilt board forward and insert controls through front panel holes, lower rear of board into enclosure.
- Reposition circuit board to align mounting holes.
- Insert and tighten mounting screws.
- Punch out label holes and affix front and rear panel labels. Front labels can be re-positioned if removed quickly, but adhere permanently after several hours.
- Install second board if the slot is not used, black labels are supplied to cover unused front and rear panel holes.
- Mount knobs on shafts (for DC-HP and DC-PW).
- Install cover (4 screws). If the unit is to be surface mounted, the cover must be installed after mounting.

Wiring

- Use of spade lugs is recommended.
- Connect the DC power terminals +, -, G, to the regulated 18v +/- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DCX boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

- Install the model DC-PS18W internal power supply in the right hand side of the universal cabinet and label the box as described above.
- Remove the hole plug in the rear upper left of the cabinet and insert the power cord.
- Wire the two AC space lugs to the two red screws closer to the front of the circuit board. The rear screw terminal is provided for ground.
- Crimp the strain relief around the cord firmly and insert into the hole until it clicks in place.

Warranty

Radio Systems warrants for one year from date of purchase, parts and labor on any unit returned to us for repair. Before a unit can be returned, a return authorization number must be obtained from Radio Systems. Repair and return of the unit will be made promptly. Within the warranty period, there is no charge for this service on units which show no sign of misuse or unauthorized alterations.

DCX Circuitboard	Model Number	Input Imp (in ohms)	Max. Output Level	THD (Note 1)	Signal/Noise (Note 2)	Channel Separation	Power Consumption	Configuration
5 Mic Pre-amp	DC-5MA	150	+26 dbm	.02%	-97 db	>97 db	7 watts	5 ch.
Phono Pre-amp	DC-PA	47K	+22 dbm	.05%	-70 db	>70 db	2.5 watts	dual/stereo
Line Amp	DC-LA/F DC-LA/S	47K	+25 dbm	.02%	-80 db	>80 db	2.5 watts	dual/stereo
Mic Pre-amp	DC-MA	150	+25 dbm	.03%	-80 db	>80 db	2.5 watts	dual
Headphone	DC-HP	20K	½ watt (10 v RMS high Z)	.01%	-90 db	>90 db	6.5 watts	2 chstereo
Power Amp	DC-PW	20K	12 watts	.02%	-80 db	-	18 watts	mono
Oscillator	DC-OS	_	+24 dbm	.05%	_	_	1.5 watts	one channel
Synchronizers	DC-TTS DC-TAS	_	-				self powered 1 watt	single

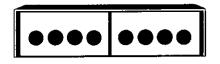
NOTE 1: THD is measured at maximum output before clipping into 600 ohms (8 ohms for the power and headphone amps).

NOTE 2: Signal to noise measured A weighted, input terminated (where applicable), relative to maximum output. Noise is degraded by approximately 6 db with use of internal power supply.

NOTE3: Add power consumption of boards to determine the total number which can be utilized with a common power supply. Internal supply provides 18 watts. External supply provides 36 watts.



DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 3½"H x 19"W

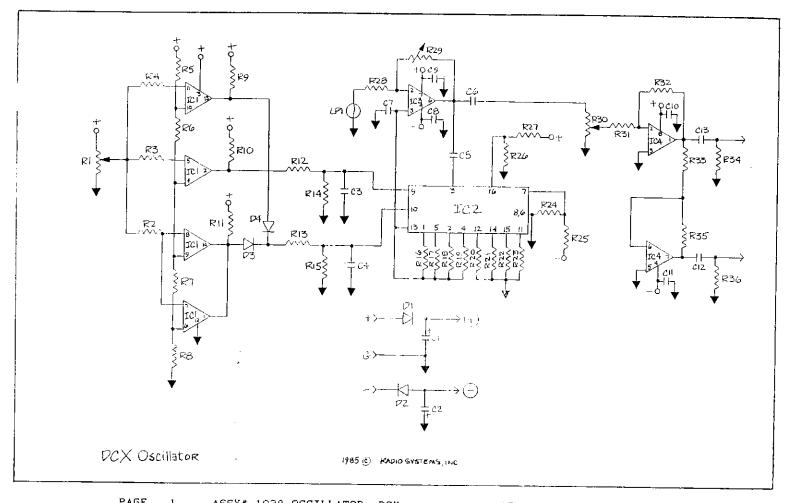


DCX Universal Cabinet Model DC-CBU **Dimensions:** 1%" H x 7¾" W x 6¼" D



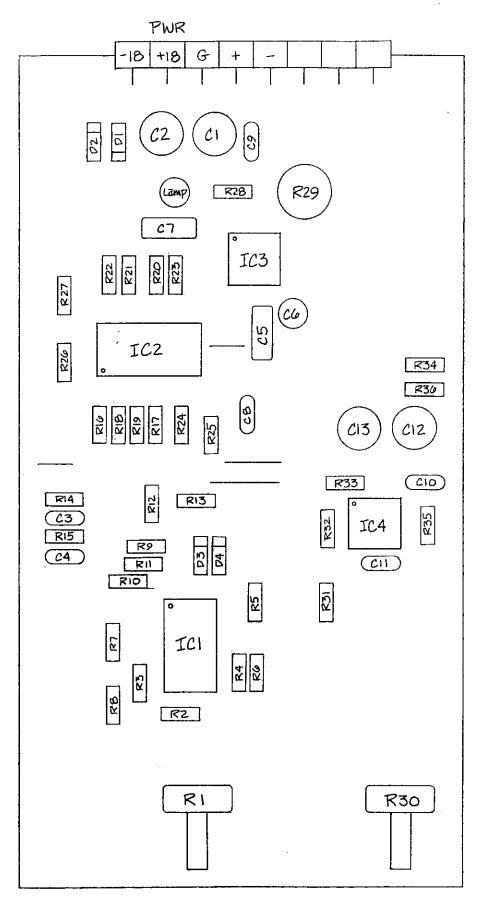
DCX Power Supply-External Model DC-PS36X
DCX Power Supply-Internal Model DC-PS18I (not shown)
Dimensions: 134" H x 356" W x 534" D





PAGE 1 ASSY# 1038 OSCILLA	TOR, DCX 17 FEB	1986		
C1-C2 C12-C13 C3-C4;C8-C11 C5;C7 C6 D1;D2 D3-D4 IC1 IC2 IC3 IC4 R12-R15;R19;R23;R31;R33-R36 R16-R20 R18-R22 R1;R30 R2-R4;R17;R21 R24-R26 R28 R29 R32 R5-R8;R25;R27	DESC	PART# (QTY.	UM
	TERMINAL BLOCK, 8 PIN	1003	1	EA
	SOCKET, 8 PIN	1011	1	FΑ
	SOCKET, 8 PIN	1011	1	FΔ
	SOCKET, 14 PIN	1027	1	EA
	SOCKET, 16 PIN	1039	1	EA
	LAMP, SYLVANIA 10CS	1051	î	FA
	PCB, OSCILLATOR, RSM DCD1	1052	1	FΛ
	WASHER, LOCK #6	1093	4	ΕA
	SCREW, PANHEAD 6-32X1/4	1157	4	FA
	LABEL, DCX FRONT	3147	î	EA
	LABEL, DCX REAR	3148	ī	FA
	BAG, ZIPLOCK 6X8	3149	ī	FΑ
C1 C5	BAG, ZIPLOCK 3 X 4	3150	2	EA
C1-02	CAP, 220 UF 25V POL.	1021	2	EA
C12-C13	CAP, 100 UF 16/25V NP	1049	2	EA
C5.C7	CAP, .1 UF MYLAR	1013	- ē	EA
C5; C7	CAP, 1500 PF POLY	1046	2	EA
Di Da	CAP, 10UF 25V NP	1014	1	ΕA
D3-D4	DIODE, 1N4004	1020	2	EA
701	DIODE, 1N4148	1012	2	EA
TC2	IC, LM339	1042	1	EA
102	IC, MC14052	1040	1	ΕA
TC4	IC, LF351	1044	1	ΕĄ
R12-R15-R19-R23-R31-R32-R36	10, 3332	1010	1	EΑ
R16-R20	RES, IUK 1/4W 5%	1017	11	ΕA
R18-R22	RES, I REG 1/4W 5%	1047	2	ΕA
R1:R30	ROT 100 DULL DIVER	1031	2	EΑ
R2-R4:R17:R2	PEG 1008 1748 EN	1005	2	ΕA
R24-R26	DEC 1 SK 1/4M SK	1018	5	ΕA
R28	BEG 10 ORM 1/4M EN	2760	2	ΕA
R29	POT 18 TOTAL	1019	1	ΕA
R32	RES. 39K 1/AW SV	1045	1	ΕA
R5-R8; R25; R27	RES. 2.2K 174W 5V	1053	1	EA
R16-R20 R18-R22 R1;R30 R2-R4;R17;R21 R24-R26 R28 R29 R32 R5-R8;R25;R27 R9-R11	RES, 3.3K 1/4W 5%	1016 1043	6 3	EA EA
			_	

* # *



DCX Oscillator

1985@RADIOSYSTEMS, INC.

The DCX Network From Radio Systems

INTERNAL POWER SUPPLY

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<u>Assembly</u>

- Tilt board forward and insert controls through front panel holes, lower rear of board into enclosure.
- Reposition circuit board to align mounting holes.
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Wiring

- Use of spade lugs is recommended.
- Connect the DC power terminals +, -, G, to the regulated 18v +/- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DCK boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

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Warranty

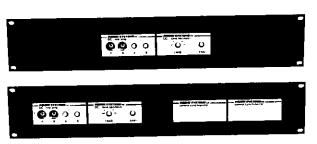
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Oscillator	DC-OS		+24 dbm	.05%			1.5 watts	one channel
Synchronizers	DC-TTS DC-TAS	<u> </u>	_	_	_		self powered 1 watt	single

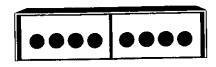
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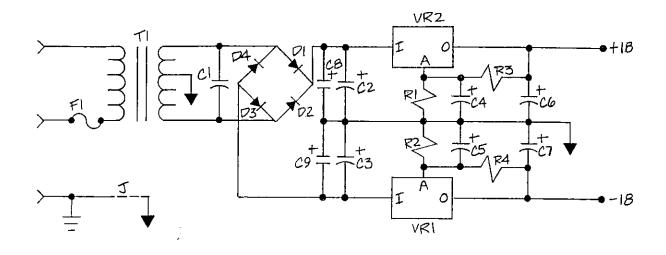
DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 31/2" H x 19" W



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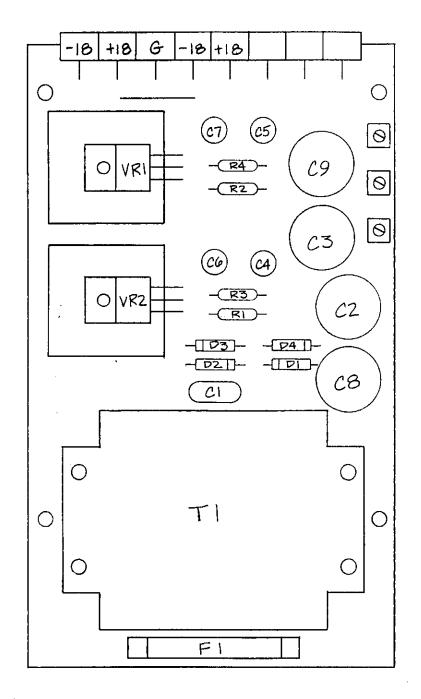
DCX Power Supply - External Model DC-PS36X
DCX Power Supply - Internal Model DC-PS181 (not shown)
Dimensions: 1¾" H x 3¾" W x 5¾" D



DCX Internal Power Supply

1985 @ RADIO SYSTEMS, INC

PAGE	1	ASSY#	3051	INTERNAL	PWR S	UPPLY-DCX		:	17 F	EB	1986
REF-I	DES				DESC	• • • • • • • • • • • • • •		PART#	QTY		UM
					TERMIN.	AL BLOCK, 8 PIFUSE HERMAL NYLON 4-40X1/ , LOCK #6 INK, AAVID 575 PANHEAD 6-32) 18/25 PVT1 BRO RELIEF, 822 SM PSM-B, DCX I YLON 4-40 DCX FRONT DCX REAR IPLOCK 6X8 IPLOCK 6X8 IPLOCK 3 X 4 MPER ERMINAL, RED TERMINAL, RED TERMINAL, PC MO 1 UF MYLAR 000 UF 35V POL 5 UF POL. 35V 1N4004 1/4 AMP SLO BL 580 OHM 1/4W I 18 OHM 1/4W I ORMER PF12-34 337T 317T	r N	1003		1	EA
					CLIP,	FUSE		1074		2	EA
					PAD, T	HERMAL		1078		2	EA
					SCREW,	NYLON 4-40X1/	/2 PANHEAD	1079		2	EA
					WASHER	, LOCK #6		1093		4	EA
					HEAT S	INK, AAVID 575	50B	1134		2	EA
					SCREW,	PANHEAD 6-32)	(1/4	1157		4	EA
					CORD,	18/25 PVT1 BRO	OWN	2959		1	EA
					STRAIN	RELIEF, 822		2960		1	EA
					PCB, R	SM PSM-B, DCX]	INT. PWR SUP	3052		1	EA
					NUT, N	YLON 4-40		3145		2	EA
					LABEL,	DCX FRONT		3147		1	EA
					LABEL,	DCX REAR		3148		1	EA
					BAG, Z	IPLOCK 6X8		3149		1	EA
					BAG, Z	IPLOCK 3 X 4		3150		2	EA
					DCX JU	MPER		3151		1	EA
					FORK T	ERMINAL, RED		3152		2	EA
<i>C</i> 1					SCREW	TERMINAL, PC MC	OUNT #1478	3153		3	EA
C2.C	3.00.00				CAP, .	1 UF MYLAR		1013		1	EA
CA-C*	3;C0;C3				CAP, 1	000 UF 35V POL		1080		4 -	EA
D1 - D	, ,				CAP, 1	5 UF POL. 35V		1025		4	EA
F1	2				DIUDE,	1N4004		1020		4	EA
P1 • D'	ל				FUSE,	1/4 AMP SLO BL	.0	1083		1	EA
P7.0	4				KES, 1	580 UHM 1/4W]	L %	1085		2	EA
T1	T				KES, 1	18 UHM 1/4W 1%	4	1084		2	EA
VRI					IKANSE	OKMEK PF12-34		3053		1	EA
VR2					va, la:	337T 317T		1076		1	EA
					vn, Ln.	31/1		1077		1	EA



DCX Internal Power Supply 1985@RADIOSYSTEMS, INC.

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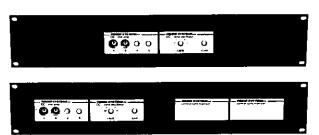
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Synchronizers	DC-TTS DC-TAS	<u> </u>	_		<u> </u>	<u> </u>	self powered 1 watt	single

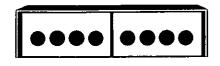
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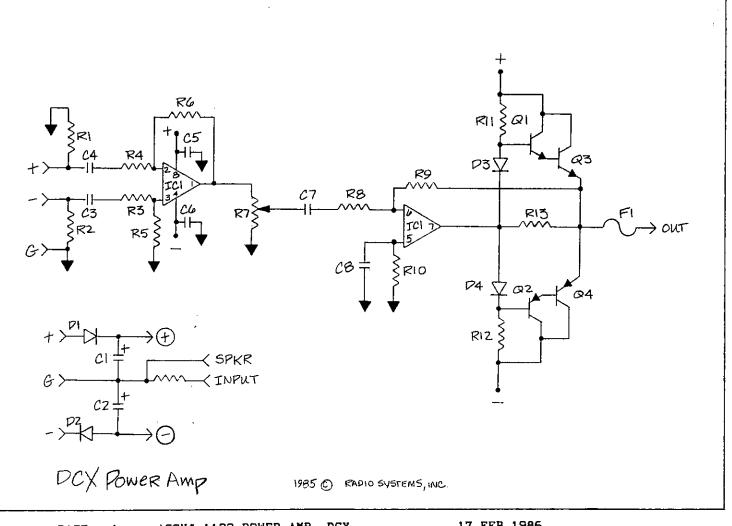


DCX Universal Cabinet Model DC-CBU Dimensions: 1%" H x 734" W x 614" D

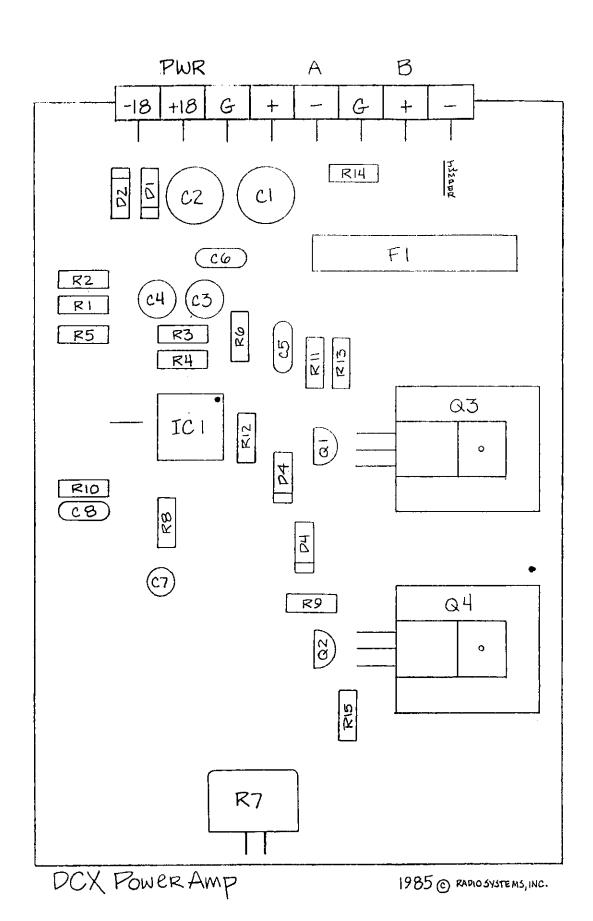


DCX Power Supply - External Model DC-PS36X DCX Power Supply - Internal Model DC-PS181 (not shown) Dimensions: 134" H x 356" W x 534" D





PAGE	1	ASSY#	1132	POWER	AMP,	DC	Х	17	7 FEB 198	6		
REF-I	DES				DE	sc.				PART#	QTY.	UM
					TE	RMI	NAL BLOCK T, 8 PIN FUSE R, NYLON 4 R, LOCK # SINK, AAV PANHEAD NYLON 4-4 .245 KNU DCX FRO DCX REA ZIPLOCK 6 ZIPLOCK 7 ZIPLOCK 6 ZIPLOCK	, a PIN		1003	1	EA4
					so	CKE.	T, 8 PIN			1011	1	EA
					CL	IP,	FUSE			1074	2	EA
					SC	REW.	, NYLON 4	-40X1/2	PANHEAD	1079	2	EA
					WA	SHE	R, LOCK #	6		1093	4	EA
					HE	AT :	SINK, AAV	ID 5750	В	1134	2	EA
					SC	REW.	, PANHEAD	6-32X1	/4	1157	4	EA
					NU	Τ, Ι	NYLON 4-4	.0		3145	2	EA
					KN	OB,	.245 KNU	RLED G	101 WL	3146	1	EA
					LA	BEL	, DCX FRO	NT		3147	1	EA
					LA	BEL	, DCX REA	R		3148	1	EA
					BA	G, :	ZIPLOCK 6	8X8		3149	1	EA
					BA	G,	ZIPLOCK 3	3 X 4		3150	2	EA
C1-C2	2				CA	Ρ, :	220 UF 25	V POL.		1021	2	EA
C3:C4	4				CA	Ρ,	10UF 25V	NP		1014	3	EA
C5-C6	6:C8				CA	P,	, 1 UF MYL	.AR		1013	3,	EA
D1-D2	2				DI	ODE	, 1N4004			1020	2	EA
D3-D4	4				DI	ODE	, 1N4148			1012	2	EA
F1					FU	SE,	1 AMP			1135	1	EA
IC1					IC	, 5	532			1010	1	EA
Q 1					TR	ANS	SISTOR, 21	13904		1128	1	EA
Q 2					TR	ANS	SISTOR, 21	13906		1056	1	EA
@ 3					TR	ANS	SISTOR, M.	JE 15030		1007	1	EA
₽4					TR	ANS	SISTOR, MJ	JE15031		1006	. 1	EA
R1-R	2				RE	s,	100K 1/4V	1 5%		1018	2	EA
R11-	R12				RE	s,	2.2K, 1/4	W, 5%		1016	2	EA
R13	•				RE	s,	100 OHM 3	L/4W 5%		1033	1	EA
R14					RE	s,	10 OHM 1.	/4W 5%		1019	1	EA
R3-R	6				RE	s,	20K 1/4W	5%		1031	4	EA
R7					PC	Τ,	10K DUAL,	PIHER		1005	1	EA
R9-R	10				RE	s,	39K 1/4W	5%		1053	2	EA



The DCX Network SYNCHRONIZER **From Radio Systems**

TURN-TABLE

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- Insert and tighten mounting screws.
- Punch out label holes and affix front and rear panel labels. Front labels can be re-positioned if removed quickly, but adhere permanently after several hours.
- Install second board if the slot is not used, black labels are supplied to cover unused front and rear panel holes.
- Mount knobs on shafts (for DC-HP and DC-PW).
- Install cover (4 screws). If the unit is to be surface mounted, the cover must be installed after mounting.

Wiring

- Connect the DC power terminals +, -, G, to the regulated 18v +/- supply. If the DC-PS18I internal supply is used, jumper leads are enclosed for this purpose.
- DCX boards utilize balanced inputs and outputs where appropriate. When connecting an unbalanced input line, use the DC "+" and "G" terminals and tie the unused "-" terminal to ground. When connecting an unbalanced output line, use the DC "+" and "G" terminals and leave the "-" terminal unconnected.

Utilizing the Internal Power Supply

- Install the model DC-PS18W internal power supply in the right hand side of the universal cabinet and label the box as described above.
- Remove the hole plug in the rear upper left of the cabinet and insert the power
- Wire the two AC space lugs to the two red screws closer to the front of the circuit board. The rear screw terminal is provided for ground.
- Crimp the strain relief around the cord firmly and insert into the hole until it clicks in place.

Warranty

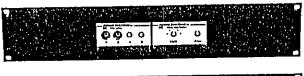
Radio Systems warrants for one year from date of purchase, parts and labor on any unit returned to us for repair. Before a unit can be returned, a return authorization number must be obtained from Radio Systems. Repair and return of the unit will be made promptly. Within the warranty period, there is no charge for this service on units which show no sign of misuse or unauthorized nlterations.

DCX Circuitboard	Model Number	Input Imp (in ohms)	Max. Oulput Level	THD (Note 1)	Signal/Noise (Nofe 2)	Channel Separation	Power Consumption	Configuration
5 Mic Pre-amp	DC-5MA	, 150	+26 dbm	.02%	-97 db	>97 db	7 watts	5 ch.
Phono Pre-amp	DC-PA	47K	+22 dbm	.05%	-70 db	>70 db	2.5 watts	dual/stereo
Line Amp	DC-LA/F DC-LA/S	47K	+25 dbm	.02%	-80 db	>80 db	2.5 watts	dual/stereo
Mic Pre-amp	DC-MA	150	+25 dbm	.03%	-80 db	>80 db	2.5 watts	dual
Headphone	DC-HP	[′] 20K	1/2 watt (10 v RMS high Z)	.01%	-90 db	>90 db	6.5 watts	2 chstereo
Power Amp	DC-PW	20K	12 watts	.02%	-80 db	_	18 watts	mono
Oscillator	DC-OS		+24 dbm	.05%		_	1.5 watts	one channel
Synchronizers	DC-TTS DC-TAS	·			_	_	self powered 1 watt	single

NOTE 1: THD is measured at maximum output before clipping into 600 ohms (8 ohms for the power and headphone amps).

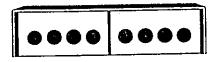
NOTE 2: Signal to noise measured A weighted, input terminated (where applicable), relative to maximum output. Noise is degraded by approximately 6 db with use of internal power supply.

NOTE3: Add power consumption of boards to determine the total number which can be utilized with a common power supply. Internal supply provides 18 watts. External supply provides 36 watts.





DCX Rack Mount Model DC-RK1 DCX Dual Rack Mount Model DC-RK2 Dimensions: 3½"H x 19"W



DCX Universal Cabinet Model DC-CBU Dimensions: 1%"H x 7%".W x 6%"D



DCX Power Supply-External Model DC-PS36X DCX Power Supply-Internal Model DC-PS181 (not shown) Dimensions: 1¼" H x 3¾" W x 5¾" D

Radio SYSTEMS Inc.

5113 West Chester Pike • Edgemont, PA 19028 • 215/356-4700



USING THE DCX TURNTABLE SYNCHRONIZER WITH RS SERIES CONSOLES

- 1. Set the pulse/holding strap (J6) for the turntable input to holding.
- Connect pins 3 & 5 (for input A) or 3 & 4 (for input B) on the remote control connector to terminals G & H on the turntable synchronizer board.

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,			
		•	

Radio Systems Control Synchronizer

Console Interface for Technics models: SL-1200, SP-25, SP-15, SP-10 MKII and SP-10 MKIIA

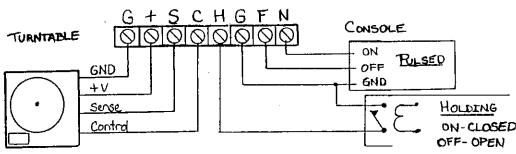
The Radio Systems RS-TTS turntable control synchronizer is designed to interface console remote start/stop switching with the Technics professional turntables. The unit allows the use of separate start and stop remote commands by synchronizing the console with the turntable. This is achieved through the use of a motion sensing circuit. The synchronizer prohibits a start command from stopping a turntable already in motion, and vice-versa.

The control synchronizer is programmable and will interface consoles with either holding remote contacts (push on/push off) or those with separate on and off control pulses (both positive and grounding pulses). Turntable pushbuttons are unaffected by

the control synchronizer.

Connections

Four wires from the control synchronizer must be internally connected to the turntable; V+, ground, the control line (start/stop) and the motion sensing line. Turntable connection points are indicated in the attached diagrams. Use extreme care in soldering, avoiding solder bridges on the densely populated circuit boards. Console connections are shown below for both pulsed controlled and holding contact consoles.



Programming

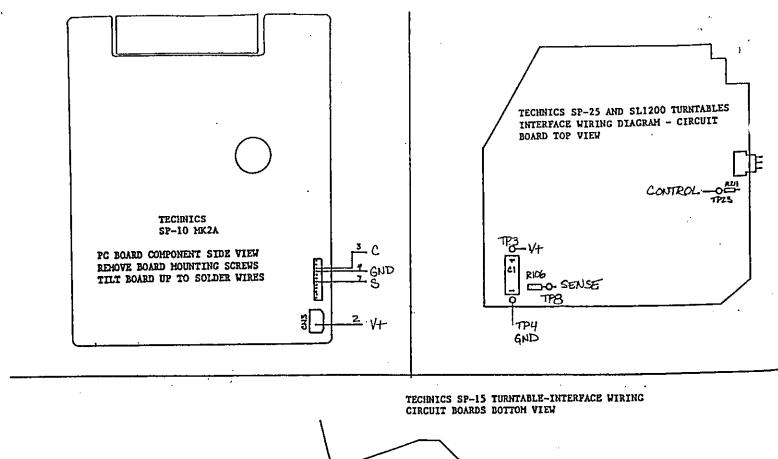
To program move switches to the indicated position for the proper mode.

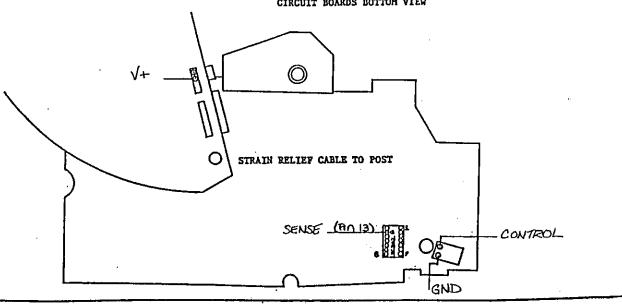
Switch Position

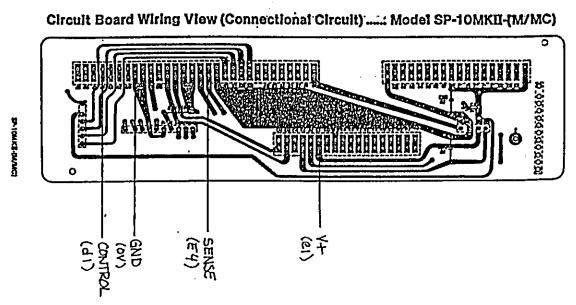
<u>Model</u>	\$1	S2	53	54	85
Holding	ON	OFF	OFF	ON	OFF
Pulse (Pull to ground)	ON	ON	ON	OFF	OFF
Pulse (+5 to +20v)	OFF	ON	OFF	OFF	ON

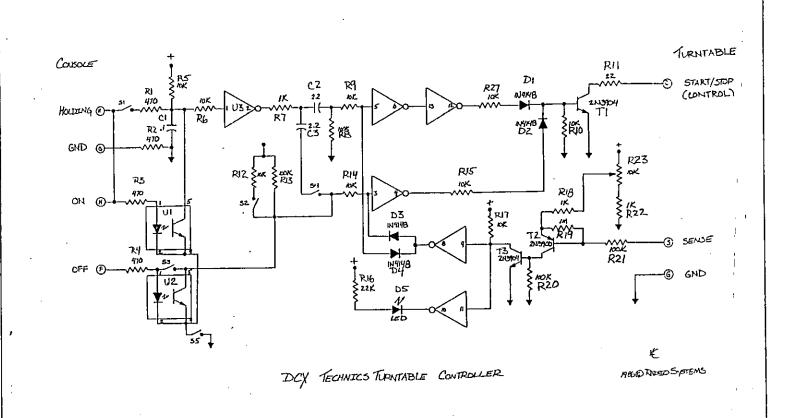
Adjustment

To calibrate the unit for the turntable run-sense voltage, turn the pot counterclockwise until the LED lights with the turntable running. Then turn past this point by ten degrees. The LED should extinguish when the turntable is stopped.

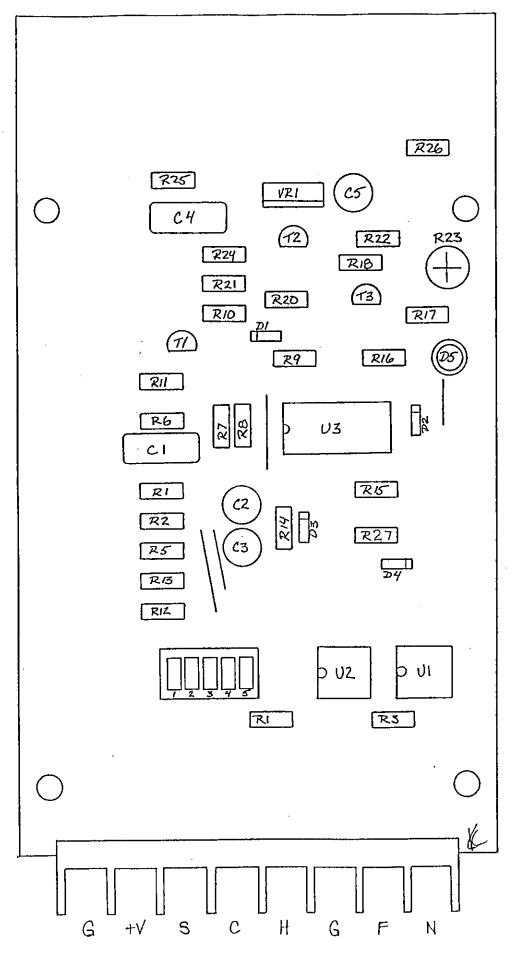




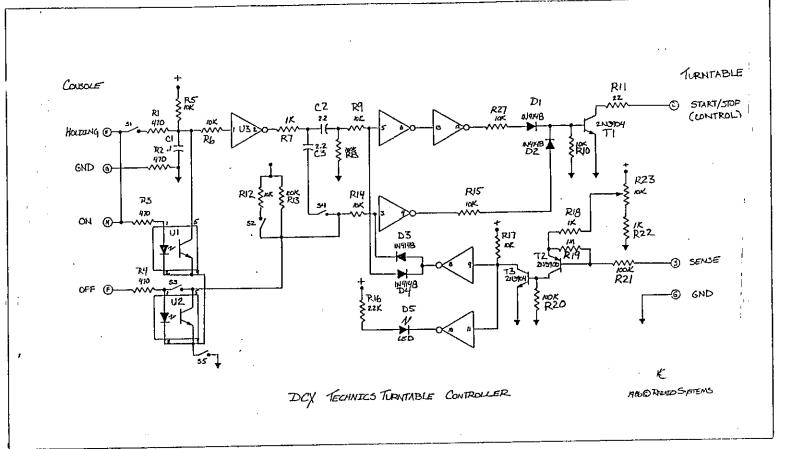




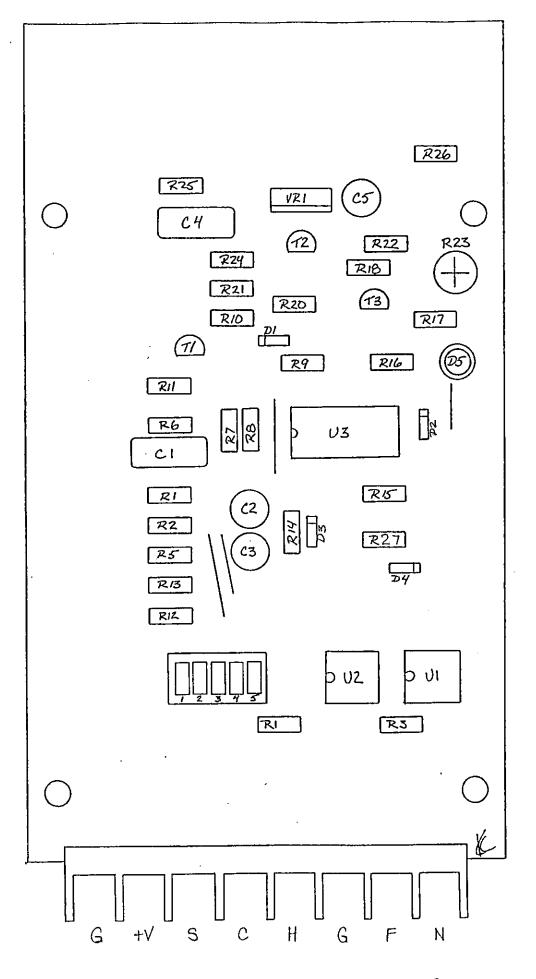
PAGE	1	ASSY#	3221	DCX	TTC	TURNTABLE CONTROLLER	10	MAR 1986
REF-	DES.					DESC	PART#	QTY. UM
C1;C C2;C C5 D1-D D5 R1-R R11 R16 R19 R26 R7;R	4 3 4 4 ;9;1	0;12;14;1 22;825	5;17;	27		SOCKET, 14 PIN PCB, RS TTC DCX TURNTABLE CONT. SOCKET, 6 PIN SWITCH, 5 POSITION DIP CAP, .1 UF MYLAR CAP, 2.2 UF 50V NP CAP, 15 UF POL. 35V DIODE, 1N4148 DIODE, LED RED HP HLMP3000 RES, 470 OHM 1/4W 5% RES, 22 OHM 1/4W 5% RES, 2.2K, 1/4W, 5% RES, 1 MEG 1/4W 5% POT, 10K TRIM RES, 100 OHM 1/4W 5% RES, 10K 1/4W 5% RES, 10K 1/4W 5% RES, 1 K 1/4W 5% RES, 10K 1/4W 5%	1027 3222 3225 3226 1013 2763 1026 1012 1030 1028 1016 1047 1129 1033 1017 1032 1018 1128 1128 1128 1223	1 1 2 1 2 2 1 4 1 1 1 1 1 1 1 1 2 1 2 2 1 4 1 1 1 1
VR1						AK* FEBILI	1077	- - - ·



DCX TURNTABLE CONTROLLER



PAGE	1	ASSY#	3221	DCX	TTC	TURNTABLE CONTROLLER	10	MAR 1	1986
REF-I	DES					DESC	PART#	QTY.	UM
						SOCKET, 14 PIN			
						PCB, RS TTC DCX TURNTABLE CONT.	3222	1	
							3225		
						SWITCH, 5 POSITION DIP	3226	1	
C1;C	4						1013		
C2 C							2763		EA
C5						CAP. 15 UF POL. 35V	1026	1	EA
D1D						DIODE, 1N4148	1012	4	EA
D5	•					DIODE, LED RED HP HLMP3000	1130	1	EA
R1-R	Δ					DED 470 DUM 174U 54	1030	4	EA
R11	7					RES, 22 OHM 1/4W 5% RES, 2.2K, 1/4W, 5% RES, 1 MEG 1/4W 5%	1028	1	EA
R16			•			RES. 2.2K. 1/4W. 5%	1016	1	EA
R19						RES. 1 MEG 1/4W 5%	1047	1	EA
R23						POT. 10K TRIM	TICD.		
R25						RES, 100 OHM 1/4W 5%	1033	1	EA
	;9;10;12	. 14.1	5-17:	27		RES, 10K 1/4W 5%	1017	9	EA
07.0	1211011	-14714 205	U , 21,			RES, 1K 1/4W 5%	1032	4	EA
70 - D	18;R22;F 13;R20;F	221				DED 100V 174U 5%	1018	4	EΑ
Tick	.z T?łuenłu	\C.I				TRANSISTOR, 2N3904	1128	2	EΑ
	_					TRANSISTOR, 2N3906	1056	1	EΑ
T2						IC. TIL111	3224	_	
V1;V V3	5					IC, TIL111 IC, CD40105	3223		
						VR, LM317T	1077	1	EA
VR1									



DCX TURNTABLE CONTROLLER