

INITIAL FACTORY TEST & ALIGNMENT PROCEDURE

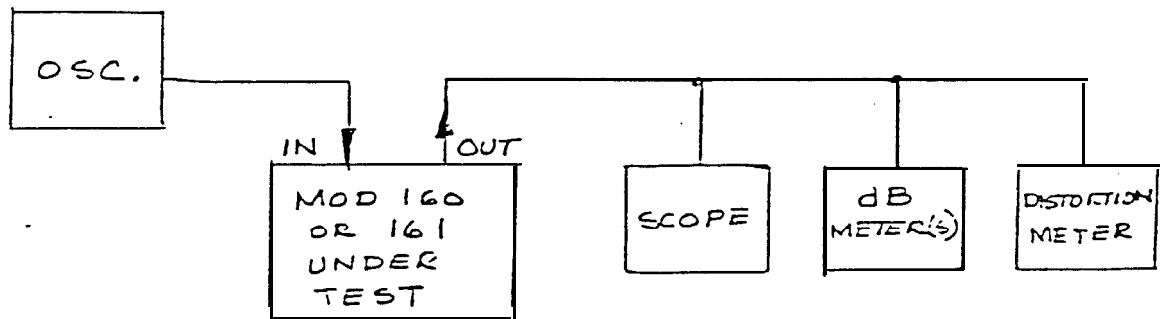
DBX MODELS 160 AND 161

WITHOUT R47 & R39 (LATE 160 & 161)

TEST EQUIPMENT REQUIRED:

<u>QUANTITY</u>	<u>ITEM</u>	<u>TYPE OR EQUIVALENT</u>
1	Signal Oscillator	Kron-Hite 4200, Heath 1272
1	Digital Multimeter	Dana 3300, B & K 282, Digitec 2110
1	Oscilloscope	Any (covering audio band)
1	Wide Range db meter	DBX SK-C-1026, HP 427
1	Harmonic distortion meter	DBX SK-B-1070, Heath 1M58, HP330, GR1500, GR1900
1	+ 3 db meter (cal ref. 1 volt) (optional)	DBX SKC-1071
1	Resistor Substitution Box	Any. $\frac{1}{2}$ W 5% values, typically 10K to 470K

NOTE: On model 160, tie " - " terminals to Gnd, for normal testing.



DBX MODELS 160 - 161INITIAL TEST OUTLINESEQUENCE OF STEPS:

- 1) Supply Trim
- 2) RMS Trim
- 3) VCA & RMS Symmetry
- 4) Level Calibration
- 5) Threshold Calibration
- 6) Gain Change & input zero calibration
- 7) Output Calibration
- 8) Input Tracking
- 9) Compression Circuit Calibration
- 10) (R78) Correct Value Test
- 11) Clipping
- 12) Response
- 13) Signal Clamping (Model 160 only)
- 14) Noise
- 15) Seal Pots
- 16) Burn-in

160/161 INITIAL PROCEDURE

Before **applying** power to unit, check mechanical zero of meter.

- 1) Supply Trim: Put resistance substitution box across R14 and measure DC voltage at (+) side of C7. Turn sub box until voltage is **+15** volts + 50 MV (+14.950 to + 15.050). Solder appropriate resistor in place. Check (-) side of C8 to verify that it is -15 volts **+ 200 MV** (-14.800 to -15.200)
- 2) RMS Trim: (205) Connect sub box across the two RMS trim pins, and measure the offset at the input pin of the RMS module. Trim the sub box until voltage is zero **+ 15** MV, and solder appropriate resistor in place.
- 2A) (209) With input of 1.228 VRMS at 100 Hz, place sub box between + v and the trim pin on the RMS module. Drop input level to **- 60 db** and adjust sub box until a symmetrical waveform is observed on **comp** pin, insert value chosen in R36 spot (typ 8K to 75KR)
- 3) VCA & RMS Symmetry:
 - Set oscillator to 1.228 VRMS
 - a) 100 Hz (Tune for peak on distortion meter) Set front panel compression knob to "3" and output gain to **+20**. Turn threshold control counter clockwise from "**3v**" until external **db** meter reads "0" db. Turn trim pots R27 and R34 until distortion reads minimum.
- 4) Level Calibration:
 - Set oscillator to 1.228 VRMS
 - a) **100Hz** turn R63 until the voltage at the end of R79 (closest to the center of unit) is **-.011** VDC
- 5) Threshold Calibration:

Turn front panel "Threshold Control" until both led's are off. Loosen knob and position so that pointer indicates just past "**1v**" and retighten. (When both leds are off the input signal is at threshold level.) (See fig. 1.) Step the oscillator up and down in 10 **db** steps verifying that the threshold level matches the input signal at successive calibration marks on the threshold dial.

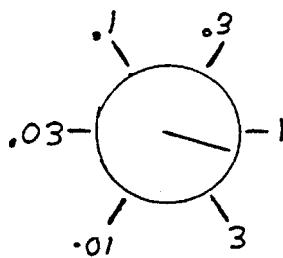


FIGURE 1

6. GAIN CHANGE AND INPUT ZERO CALIBRATION

- 6.1 Set oscillator to 100 Hz at 1.228VRMS.
- 6.2 Set "THRESHOLD" fully CW.
- 6.3 Set "COMPRESSION" fully CCW.
- 6.4 Place "METER" switch to "GAIN CHANGE" and adjust R51 for precisely "0" on the DBX 160/161 meter.
- 6.5 Place "METER" switch to "INPUT" and adjust rear panel pot R62 for precisely "0" on the DBX 160/161 meter.
- 6.6 Repeat steps 6.4 and 6.5.

7. OUTPUT CALIBRATION

- 7.1 Place "METER" switch to "OUTPUT" and adjust the "OUTPUT GAIN" control for precisely "0" on the DBX 160/161 meter. If necessary adjust the knob on the "OUTPUT GAIN" control so that it points precisely to "0" on the front overlay at the same time that the DBX 160/161 meter reads precisely "0".
- 7.2 With the requirements of step 7.1 met, the external DB meter should read "0" +1DB.

8. INPUT TRACKING

- 8.1 Place "METER" switch to "INPUT" and step oscillator to -30DB. Adjust R56 for a reading of precisely -30 on the DBX 160/161 meter.

9. COMPRESSION CIRCUIT CALIBRATION

- 9.1 Set "THRESHOLD" fully CCW.
- 9.2 Set "COMPRESSION" fully CW.
- 9.3 Place "METER" switch to "OUTPUT"
- 9.4 Step oscillator to -40DB, and adjust the "OUTPUT GAIN" control for a convenient reading on the external DB meter. (E.G. -40DB). Step the oscillator to +10DB. The change on the External DB meter must be less than +2DB.
- 9.5 Adjust the "OUTPUT GAIN" control for a convenient reading on the DBX 160/161 meter. (E.G. -30DB). Step the oscillator to -40DB. The change on the DBX 160/161 meter should be less than +1DB. Trim R58 with R102 to obtain this reading. (150K Nominal)
- 9.6 Set "COMPRESSION" to "4". Step oscillator to -30DB. Adjust "OUTPUT GAIN" control for a convenient reading on the External DB meter. (E.G. -30DB) Step oscillator to +10DB. The External DB meter should read -20DB. Adjust R43 to obtain this reading. If necessary change R41 (7.5K) to 10K (Recheck if R43 is adjusted)

10. (R78) CORRECT VALUE TEST

- 10.1 Set "THRESHOLD" control fully CW.
- 10.2 Apply 100Hz at 1.228VRMS
- 10.3 Set "OUTPUT GAIN" control for a reading of "0"DB on the External +3DB meter.
- 10.4 Vary the "COMPRESSION" control from fully CCW to fully CW while watching the External DB meter. The change on the External DB meter must be less than +2DB.

- 11) Clipping:
Step oscillator to + 10db and rotate compression control fully CCW. Turn output gain up until clipping is observed on the scope. Clipping should be clean and should occur well after + 20 dbm output for 160 and at +18 dbm for 161.
- 12) Response:
Vary the frequency of the oscillator with 0db output, and verify that the output of the unit is constant + 1 db from 30 hz to 20 kHz.
- 13) Signal Clamping (Model 160 only)
For 160's turn power on and off, observing scope to check that the output does not contain a transient larger than the signal. After power is switched on the output should climb to normal, smoothly, in about a second.
- 14) Noise:
Short input terminals and observe noise output of unit. With covers on, noise should read less than -80 dbm.
- 15) Seal pots with wax (all except R62).
- 16) Burn-in:
Place in burn-in rack with appropriate power applied. (120 or 240 volts).

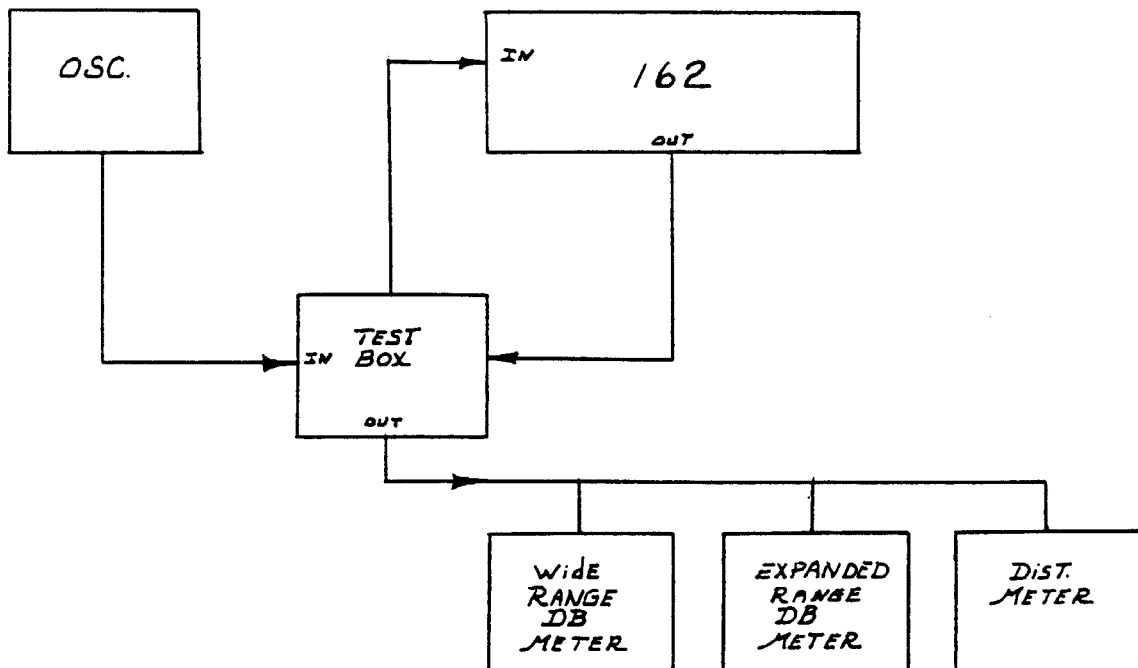
INITIAL FACTORY TEST AND ALIGNMENT PROCEDURES

DBX MODEL 162

TEST EQUIPMENT REQUIRED:

<u>Quantity</u>	<u>ITEM</u>	<u>MFG. TYPE OR EQUIVALENT</u>
1	Signal Oscillator	Kron-Hite 4200
1	Digital Multimeter	Dana 3300
1	Oscilloscope	Any (covering audio range)
1	Wide Range dB Meter	DBX SK-C-1026, HP427
1	Harmonic Distortion Meter	DBX SK-B-1070, Heath IM58 or IM5258 HP330, GR1500, 1900
1	+ 3 dB Meter (Cal. Ref. 1 Volt)	DBX SK-C-1071
1	Test Unit	DBX Model 162
1	Test Adaptor (optional)	DBX TA-16?
1	Tone Burst Generator	GR1396 B, DBX #260247
3	Phono-to-Phono Shielded Cables	
2	Input/Output Phono Shielded Cables	

162 TEST SET-UP



dbx

inc. Waltham, Mass.

COMPRESSOR/LIMITER
MODEL 160DRAWING NUMBER
PL 260182REV. 5..LET OF
2 7

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
				Q1	Q2	Q3	
1		P.C. BOARD	260180	1			dbx
2							
3		SPACERS 4-40X3/16 LG. SWAGE TYPE	51015R-8-105-22	4			ASMCO
4							
5	R7	RESISTOR 4.7Ω 1/4W 5%		1			
6	R1	11 100Ω 1/2W 5%		1			
7	R2, R3, R13, R17, R25 R88, R89, R90,	11 22Ω 1/4W 5%		8			
8	R4,	11 3.3K 1/4W 5%		1			
9	R5	11 39K 1/4W 5%		1			
10	R6, R29	11 470Ω 1/4W 5%		2			
11	R57, R46	11 4.7K 1/4W 5%		2			
12	R8, R13, R53, R67 R74, R87	11 1K 1/4W 5%		6			
13	R9, R20, R86, R94, R82, R85, R95	11 2.2K 1/4W 5%		7			
14	R10	11 220Ω 1/4W 5%		1			
15	R14,	11 4.99K 1/4W 5%		1			
16	R16, R36, R64, R66, R102	11 TRIM 1/4W 5%		5			
17	R18, R19, R23, R24, R33 R50, R79, R83	11 10K 1/4W 5%		8			
18	R21, R22,	11 20K 1/4W 5%		2			
19	R26, R32, R55, R75 R81	11 100K 1/4W 5%		5			
20	R28	11 300K 1/4W 5%		1			

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COMPRESSOR / LIMITER
MODEL 160

DRAWING NUMBER
PL260182

REV. 22
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5. SET OF

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY		
				G1	G2	G3
21	R30, R48	RESISTOR 200 Ω 1/4W 1%		2		
22	R49	1.24M 11 11		1		
23	R37, R61	1.5M 1/4W 10%		2		
24	R38	23.2K 1/4W 1%		1		
25	R72	909K 1/4W 1%		1		
26	R41	7.5 K 1/4W 5%		1		
27	R42, R103	2.4K 11 11		2		
28	R60	270 Ω 1/4W 5%		1		
29	R52	4.7M 1/4W 10%		1		
30	R54	200K 1/4W 5%		1		
31	R31	24.9K 1%		1		
32	R65	390K 1/4W 5%		1		
33	R68, R73	1.5 K 11 11		2		
34	R45, R77, R99, R96	10 K 11 11		4		
35	R78, R93	100 Ω 11 11		2		
36	R15	4.02K 1/4W 1%		1		
37	R35	909K 11 11	SELECT PER 164001	1		
38	R98	1M 11 5%		1		
39	R100	15M 11 10%		1		
40	R101	3.3M 11 10%		1		

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PL260182

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COMPRESSOR/LIMITER
MODEL 160DRAWING NUMBER
PL2601B2

REV. 22 S. LET 4 OF 7

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			S. LET	OF
				Q1	Q2	Q3		
41	R 58	RESISTOR 90.9K 1/4W 1%		1				
42	R 69	5.49K 11 11		1				
43	R 71	523K 11 11		1				
44	R 84, R 92	22.1K 11 11		2				
45	R 27, R 34, R 51, R 56, R 59 R 63	50K POT	RVA-1214H-102-503	7				MURATA
46	R 62	50K POT	3353-W-1-503	1				BOURNS
47	Y1-Y21	JUMPERS		21				
48	R 87, R 91	RESISTOR 5.6K 1/4W 5%		2				
49	Q1, Q2, Q5, Q6, Q8,	TRANSISTORS BC 361		5				SIEMENS
50	Q 7	BC 263	SELECTED PER 4760017	1				11
51	Q 3, Q 4	BC 263		2				11
52	Q 9	BC 261		1				11
53	Q 14	BC 341		1				11
54	Q 10, Q 11, Q 12, Q 13	KE4858		4				
55	CR6-CR9 & CR12-CR19	DIODES IN 4148		12				
56	CR1, CR2, CR3, CR4, CR5	DIODES IN A383		5				
57	C 35	CAPACITOR 22 μS 16V TANT.		1				
58	C 34	CAPACITORS 1μF ELECT 50V		1				NICHICON
59	C 1	CAPACITORS .005 μF DISC 20% 3KV	DD30-502	1				SPRAGUE
60	C 2, C 3	470 μF ELECT. 25V	B 41010	2				SIEMENS

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COM PRESSUR/LIMITER
MODEL 160

DRAWING NUMBER
PL260182

REV. 22
SHEET 5 OF 7

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			MFG
				Q1	Q2	Q3	
61	C4	CAPACITOR 33µF DISC 10%	TYPE CM	1			RMC
62	C6	560µF 11 11	JE	1			11
63	C8, C10, C18, C20 C24, C32	1µF 11 11	11 11	6			11
64	C14	22µF 11 11	CM	1			11
65	C22	150µF 11 11	JE	1			11
66	C23 & C33	100µF 11 11	JK	2			11
67	C25, C26	10µF 11 11	CM	2			11
68	C27, C28, C13, C27, C28	22µF/16V ELECT.	B41313	6			SIEMENS
69	C29	1µF/250V MYLAR 20%	B32234	1			11
70	C16	TRIM ELECT.		1			
71	C30	100µF/25V ELECT.	B41283	1			SIEMENS
72	C11, C12	.33µF/100V MYLAR 20%	B32234	2			11
73	C18	.01µF 100V DISC.	11	1			11
74	C17	.47µF 11 11	711-14-214B4	1			PACKTRON
75	C31	3.3µF POLYPRO 2.5%	B33063	1			SIEMENS
76	C21	4.7µF/25V. POLARIZED NON	TYPE TND	1			IEEC
77	C15	22µF ±.5µF TANT	SELECT PER 164001	1			SIEMENS
78	OA1, *OA6	OP AMP	301	2			RAY
79	OA2		723	1			11
80	OA5		4558	1			11

PL260182 *OA6 TO BE SIGNETICS ONLY

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COMPRESSOR LIMITER
MODEL 160

DRAWING NUMBER
PL 260182

REV. 5. 6
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ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
				Q1	Q2	Q3	
81	P1, P5	WAFERCON 3 PIN	09-18-5031	2			MOLEX
82	P4	9 PIN	09-18-5094	1			
83	P3	5 PIN	09-18-5051	1			
84	P2	NOT USED					
85	M1	MODULE VCA 200	SELECTED PER 160017	1			dbx.
86	M2	RM S 209		1			
87							
88	S1	SWITCH	2500006	1			dbx.
89	S2		2500008	1			
90							
91	T1	TRANSFORMER	110083	1			dbx
92							
93	F1	FUSE 3AG 1/4 A		1			
94		CLIPS, FUSE	102068	2			LITTLE
95	OA3, OA4	OP AMP TL082 CUG		2			T1
96	CR 20	DIODE IN 950 B		1			
97							
98							
99		BOARD STIFFENER	110076	1			
100							

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COMPRESSOR / LIMITER
MODEL 160

DRAWING NUMBER
PL 260182

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S. SET OF 7
7

ITEM NO.	REF.	DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
					Q1	Q2	Q3	
101			HEAT SINK USED ON Q1, Q2 Q5, Q6, QAI, QAS	# 2201 (RED)	6			ASTRODY.
102								
103			TRANSIPAD 5 USED ON Q1, Q2 Q5, Q6, Q8, Q14	# 7717-26	6			THERMALLOY
104								
105								
106								
107			TERMINAL CLIP-ON	*60114-2	2			AMP
108								
109								
110			LOCK TITE			A/R		
111			SCREW #6-32X3/8" LG. PHILLIPS		2			
112			WASHER FLAT #6		4			
113			11 LOCK #6		2			
114			NUT HEX #6-32		2			
115								

PL 260182

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REAR PANEL SUB-ASS'Y
MODELS 160/161

DRAWING NUMBER
PL 380018

REV. 5
04 ET OF
2 2

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
				Q1	Q2	Q3	
1		REAR PANEL EXTRUSION	# 290105	160	161		dbx
2		REAR PANEL OVERLAY	# 290101	1	-		dbx
3		REAR PANEL OVERLAY	# 290103	-	1		dbx
4		BARRIER STRIP	# 280018	1	-		dbx
5		PHONO JACKS (WITH HARDWARE)	# 3501FP	-	2		SWITCHCRAFT
6		STRAIN RELIEF	# SR-4L-4	1	1		HEYCO
7		LINE CORD	320087	1	1		DBX
8	J1	CONN. RECEPTACLE (FEMALE) <small>3 PIN</small>	03-09-1033	1	1		MOLEX
9		SCREW #6-32x5/16 PHIL. PHMS.		2	-		
10		LOCK WASHER #6		2	-		
11		NUT, HEX #6-32		2	-		
12		SOLDER LUG 1/4 I.D.	1410-14 or 1468	-	2		H.H. SMITH
13							
14	J3	CONN. RECEPTACLE (FEMALE) <small>5 PIN</small>	03-09-1052	1	1		MOLEX
15		TERMINAL CRIMP (FEMALE)	02-09-1118	5	3		11
16		11 11 (MALE)	02-09-2118	2	2		11

PL 380018

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COMPRESSOR/LIMITER
MODEL 161

DRAWING NUMBER
PL 260185

REV. SHEET OF
2 2 6

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			REV. SHEET OF
				Q1	Q2	Q3	
1		P.C. BOARD	260180	1			dbx
2							
3		SPACERS 4.40X3/16LG SWAGE TYPE	5105R-B-105-22	4			ASMC0
4							
5	R62	RESISTOR, 50K, POT	3353-W-1-509	1			BOURNS
6	R1	RESISTOR 100 Ω 1/2W 5%		1			
7	R2,R3,R13,R17,R25	11 22 Ω 1/4W 5%		5			
8	R4	11 3.3K 11 11		1			
9	R5	11 39K 11 11		1			
10	R6,R29	11 470 Ω 11 11		2			
11	R7	11 4.7 Ω 11 11		1			
12	R8,R12,R53,R67,R74	11 1K 11 11		5			
13	R9,R20	11 2.2K 11 11		2			
14	R10	11 220 Ω 11 11		1			
15	R14	11 4.99K 1/4W 1%		1			
16	R16,R36,R64,R66,R81	11 TRIM 1/4W 5%		5			
17	R18,R19,R23,R24,R50,R79	11 10K 1/4W 1%		6			
18	R21,R22	11 20K 11 11		2			
19	R32,R55,R75	11 100K 1/4W 5%		3			
20	R28	11 300K 11 11		1			

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COMPRESSOR LIMITER
MODEL 161DRAWING NUMBER
PL260185REV. SHEET OF
1/78 5 6

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
				Q1	Q2	Q3	
21	R27, R34, R51, R56, R59 R63, R43	RESISTOR 50K POT	RVA 124H-102-503	7			MURATA
22	R30, R48	11 200Ω 1/4W 1%		2			
23	R49	11 1.24M 1/4W 1%		1			
24	R37, R61	11 1.5M 1/4W 10%		2			
25	R38	11 23.2K 1/4W 1%		1			
26	R72	11 909K 1/4W 1%		1			
27	R41	11 7.5K 11 5%		1			
28	R33	11 68Ω 1/4W 5%		1			
29	R60	11 270Ω 11 11		1			
30	R52	11 4.7M 11 10%		1			
31	R26	11 47K 1/4W 5%		1			
32	R42	11 2.4K 11 11		1			
33	R65	11 390K 1/4W 5%		1			
34	R68, R73	11 1.5K 11 11		2			
35	R77, R45	11 10K 11 11		2			
36	R58	11 90.9K 1/4W 1%		1			
37	R69	11 5.49K 11 1%		1			
38	R71	11 523K 11 11		1			
39	R46, R57	11 4.7K 1/4W 5%		2			
40	R78	11 100Ω 11 5%		1			

PL260185

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Waltham, Mass.

COMPRESSOR/LIMITER
MODEL 1-1

PL 260185

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ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
				Q1	Q2	Q3	
41	R15	RESISTOR 4.02K 1/4W 1%		1			
42	R54	200K 1/4W 5%		1			
43	R31	24.9K 1%		1			
* 44	R35	909K 1%	SELECT PER 164001				
45	Y1-Y18	JUMPERS		18			
46	Q1,Q2,Q5,Q6	TRANSISTORS BC 361		4			SIEMENS
47	Q7	BC 263	SELECTED PER 160017	1			11
48	Q3,Q4	BC 263		2			11
49							
50	CR1-CR5	DIODES 1N4383		5			
51	CR6-CR9,CR12-CR14	1N4148		7			
* 52	C15	CAPACITOR 22μf ±.5% TANT	SELECT PER 164001	1			
53	C1	CAPACITORS .005μf DISC 20V.3KV	DD30-502	1			SPRAGUE
54	C2,C3	470μf ELECT.25V	B41010	2			SIEMENS
55	C4	33μf DISC 10%	TYPE CM	1			RMC
56	C6	560μf 11 11	11 2E	1			11
57	C14	22pf 11 11	11 CM	1			11
58	C5,C7,C8,C13,	22μf/16V ELECT.	B41313	4			SIEMENS
59	C9,C10	1μf DISC. 10%	TYPE JE	2			RMC
60	C16	TRIM ELECT.		1			

PL 260185

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COMPRESSOR/IMITER
MODEL 161

DRAWING NUMBER
PL260185

REV 5
23 5 6

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			LET OF
				Q1	Q2	Q3	
61	C11,C12	CAPACITOR .33uF/100V NYLAR 20%	B32234	2			SIEMENS
62	C18	.01uF 11 DISC,		1			11
63	C17	.47uF 11 11	711-14-21484	1			PACTRON
64							
65	OAS	OPAMP 4558		1			RAY
66	OAI	11 301		1			SIGNETICS
67	OAA	11 723		1			11
68	OAA3, OAA4	11 T1082CJG		2			T1
69	P1,P5	WAFERCON 3 PIN	09-18-5031	2			MOLEX
70	P4	11 9 PIN	09-18-5094	1			11
71	P2	11 NOT USED					
72	P3	11 5 PIN	09-18-5051	1			MOLEX
73	M1	MODULE VCA 200	SELECTED PER 160017	1			dbx
74	M2	11 RMS 209		1			11
75							
76	S1	SWITCH	2500006	1			dbx
77	S2	11	2500008	1			11
78							
79	T1	TRANSFORMER	110083	1			dbx
80							

PL260185

dbx Inc. Waltham, Mass.

ITEM NO.	REF. DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			REV.	LET OF
				Q1	Q2	Q3		
		COMPRESSO / LIMITER MODEL 161	PL260185				13	6
81	F1	FUSE 3AG 1/4 A		1				
82		CLIPS FUSE	102068	2				LITTLE-F.
83								
84	CR15	DIODE IN 960 B		1				
85								
86								
87		BOARD STIFFENER	110076	1				
88								
89		HEAT SINKS USED ON Q1, Q2, Q41 Q5, Q6 & Q45	# 2201 (RED)	6				ASTRODY
90								
91		TRANSIPADS USED ON Q1, Q2 Q5, Q6	# 7717-26	4				THERMALLOY
92								
93								
94								
95		TERMINAL CLIP-ON	*60114-2	2				AMP
96		LOCKTITE		A/R				
97		SCREW*6-32X 3/8 LG. PH.M.S. PHILL.		2				
98		WASHER FLAT # 6		4				
99		11 LOCK # 6		2				
100		NUT HEX # 6-32		2				

PL260185

dbx

inc. Waltham, Mass.

FRONT PANEL SUB-ASS'Y
MODEL 160/161

DRAWING NUMBER
PL 380017

REV. SH T OF
05 2 2

ITEM NO.	REF.	DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
					Q1	Q2	Q3	
1			FRONT PANEL EXTRUSION	# 290104	1	1		DBX
2			FRONT PANEL OVERLAY	# 290100	1	-		DBX
3			FRONT PANEL OVERLAY	# 290102	-	1		DBX
4			METER	# 110075	1	1		DBX
5			160 SERIES LAMP ASSY	380042	1	1		DBX
6		R40, R70, R80	POTB 20K 1TURN	XRL450-8*	3	3		CTS
7			KNOBS	AR-1-M-L	2	2		ROGAN
8			11	AR-2-M-L	1	1		11
9			POP RIVET	1601-0410 BLK	2	2		AVEX
10		J5	CONN. RECEPTACLE (FEMALE)	03-09-1033	1	1		MOLEX
11		J4	11 11 (FEMALE)	03-09-1093	1	1		11
12			TERMINAL CRIMP (FEMALE)	02-09-1118	10	10		11
13			11 11 (MALE)	02-09-2118	2	2		11
14			NUT, KNURLED (BLACK)	* 1970	3	3		SWITCHCRAFT
15			INTERNAL TOOTH LOCK WASHER 3/81.D.	# 1131	3	3		H.H.SMITH
16			* 18 AWG. BUSS		A/R	A/R		
17			LED SUB ASSY	380066	1	1		DBX
18			SPACER PLASTIC 1/4X1/4	556-2	1	1		RICHCO
19			SCREW #6X5/8LG	PHIL PH BLK OXIDE	TYPE A	1	1	

PL 380017

* ITEM 6 PART NO. BRG 922, 1377633

dbx

inc. Waltham, Mass.

MAIN ASSEMBLY
MODELS 160/161DRAWING NUMBER
PL 400016

REV. 05

SHEET OF
2 3

ITEM NO.	REF.	DESIGNATION	DESCRIPTION	PART NUMBER	QUANTITY			
					Q1	Q2	Q3	
1			P.C. BOARD ASSEMBLY	#260182	1	-		dbx
2			P.C. BOARD ASSEMBLY	#260185	-	1		dbx
3			FRONT PANEL SUB-ASS'Y	#380017	1	1		dbx
4			REAR PANEL SUB-ASS'Y	#380018	1	1		dbx
5			SCREW*4-40X1/4LG. ^{PHIL.} P.H.M.S.		4	4		
6			COVERS (TOP & BOTTOM)	#290110	2	2		dbx
7			SIDE PLATES	#290140	2	2		dbx
8			SCREW *6x5/8 ^{PHIL PAN TYPE 'A'} (BLACK OXIDE)		8	8		
9			WASHER, FLAT #6 (BLACK OXIDE)		8	8		
∅ 10			RUBBER FEET (BLACK)	#SUS5023	4	4		3M.
11			P.C. BOARD SPONGE SUPPORT	#110078	2	2		dbx
12*			CAUTION STICKER	#290114	1	1		dbx
13			PACKING MAT'L OUTER BOX	#390011	1	1		dbx
14			11 11 T&B INSERTS	#390012	1	1		dbx
15			11 11 END INSERTS	#390013	1	1		dbx
16			11 11 4 PACK	#390015	1	1		dbx
∅ 17			MANUAL & PLASTIC BAG		1	1		
18			SCREW*4-40X7/16LG. ^{PHIL.} P.H.M.S.		3	3		
19			BUTTON	FSA/BLK.	4	4		SCHADOW

PL 400016

*CAUTION STICKER TO BE USED ON CANADIAN UNITS ONLY.

ITEM IN QUANTITY TO BE QUOTED IN QUANTITY

