

ENGINEERING NOTES

51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH AT&T PRACTICES NONE.

52. THIS DOCUMENT CONTAINS COMPLETE ENGINEERING INFORMATION FOR THE SUBJECT EQUIPMENT. JOB INFORMATION SHALL BE RECORDED BY LIST OR GROUP.

53. WHEN THE ED-4C191-30,G2 COOLING UNIT IS REQUIRED. IN SYTEMS OTHER THEN THE 3B IT WILL BE THE RESPONSIBILITY OF THE USER TO FURNISH THE FOLLOWING APPARATUS:

1	97D	APPARATUS MTG
6	5A	CARD GUIDE
		POS 1T,27T,
		POS 1B,3B,25B,
		POS 27B
1	KS-21244,L1	CONNECTOR
1	841999303	ADAPTOR BOARD
8	840851786	TERMINAL
1	70D	FUSE, 5 AMP.

54. ED-4C191-30,G2 USED ON J1C129AF-1. ED-4C191-30,G3 USED ON J1C162AA-1.

ISSUE NOTES (CONTINUED)

FIG 2 COVER 843040668 QTY CHGD TO 2. SL ITEM 1040,1221,1295 CHGD. PER OCW PT IS 8.1,8.2,8.3

ORIG ISS: 06/08/79 CHANGE CLASS: D

DRAFT: TPS	ENGR: RWR	SUPV:	CERTIFIED: 03/30/87	ISSUE: 9
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NOTE 13 'AV221' READ 'RAV2217'.

ORIG ISS: 06/08/79 CHANGE CLASS: M

DRAFT: MSB	ENGR: KAG	SUPV:	CERTIFIED: 07/03/89	ISSUE: 10
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THIS DWG WILL BE RATED "DA" WITH THIS ISSUE.

ORIG ISS: 06/08/79 CHANGE CLASS: M

DRAFT: TPS	ENGR: TPS	SUPV: CDH	CERTIFIED: 05/24/99	ISSUE: 11
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ISSUE NOTES

ORIG ISS: 06/08/79 NDD NBR: 4C129IH-7 CHANGE CLASS:

DRAFT: JRP	ENGR: JRR	SUPV: JPH	VAULT: 06/08/79	ISSUE: 1
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IN S.L. LINE 1030 LINED OUT. LINE 1031,1141 ADDED. LINE 1150 INDENT CHGD. LINE 1220 RA867 READ RAV2217. NOTE 15 ADDED. GRAPHICS CHGD.

AT&T CL: B ORIG ISS: 06/08/79 WECO CL: B

DRAFT: JRP	ENGR: JRR	SUPV:	VAULT: 11/05/79	ISSUE: 2
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GROUP A ADDED.

AT&T CL: D ORIG ISS: 06/08/79 NDD NBR: 1C129IH-8 WECO CL: D

DRAFT: JRP	ENGR: GJL	SUPV:	VAULT: 08/19/80	ISSUE: 3
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IN S.L. ITEM 1220 QTY '1' READ '9'. ITEMS 1070,1141,1255 LINED OUT,ITEMS 1071, 1221,1256,1142 ADDED.

AT&T CL: AC ORIG ISS: 06/08/79 WECO CL: AC

DRAFT: JRP	ENGR: GJL	SUPV:	VAULT: 08/19/80	ISSUE: 4
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GROUP 3 ADDED. NOTE 54 ADDED. IN SL,ITEMS 1330,1340,1350 & 1360 ADDED.

AT&T CL: AC ORIG ISS: 06/08/79 WECO CL: AC

DRAFT: JRP	ENGR: JRR	SUPV:	VAULT: 03/17/81	ISSUE: 5
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IN SL,ITEM 1031 ADD MOD B,C TO IDENT. CN5720IH

AT&T CL: A ORIG ISS: 06/08/79 WECO CL: A

DRAFT: JRP	ENGR: JRR	SUPV:	VAULT: 03/17/81	ISSUE: 6
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IN SL ITEM 1030 ADD MOD A,D, TO IDENT. CN5720IH

AT&T CL: A ORIG ISS: 06/08/79 WECO CL: A

DRAFT: JRP	ENGR: MAL	SUPV:	VAULT: 04/10/81	ISSUE: 7
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 * DRAWING CONVERTED FROM SEDBS TO MDS COMPUTER SYSTEMS. *
 * THIS IS A MACHINE COPY OF THE LATEST SEDBS CERTIFIED ISSUE *
 * AND MAY CONTAIN MINOR DIFFERENCES. THE TABLE OF ASSOCIATED *
 * DRAWINGS WAS ELIMINATED DURING MIGRATION TO ASSIST THE *
 * SCRUBBING OF PROPRIETARY INFORMATION. *

SL ITEM 1390 ADDED. SL ITEM 1170,1240,1300 & 1360 COMCODES READ 840058333, 996230488,402406748 & 843040650 RESP. TABLE B; FIG B,2 CHGD. DRAWING WAS RATED PROVISIONAL. DRAWING PARTITIONED. DRAWING RATING READ 'STANDARD'. ORIGINAL SEDBS CERTIFICATION DATE OF THIS ISSUE IS 04/18/84.

AT&T CL: D ORIG ISS: 06/08/79 WECO CL: D

DRAFT: GES	ENGR: JRG	SUPV:	CERTIFIED: 09/22/86	ISSUE: 8
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RN98

COMMON SYSTEMS
 SPECIFICATION FOR
 3B COMPUTER
 COOLING UNIT

DWG SIZE	ISSUE
C2	11

LUCENT TECHNOLOGIES INC ED4C191-30 SHEET 11 OF 8

TABLE A-FEATURES

EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
ASSEMBLY, WIRING AND EQUIPMENT FOR ONE COMMON COOLING UNIT.		MD	1	1	ED4C191-30	GRP1					
ASSEMBLY, WIRING AND EQUIPMENT FOR ONE COMMON COOLING UNIT FOR USE WITH 8 INCH FAN UNIT. DA EFF:05/31/99 FE/RA:NONE		DA	2	1	ED4C191-30	GRP2					
ASSEMBLY, WIRING AND EQUIPMENT FOR ONE COMMON COOLING UNIT FOR USE WITH 4 INCH FAN UNIT. DA EFF:05/31/99 FE/RA:NONE		DA	3	1	ED4C191-30	GRP3					
APPARATUS ALWAYS REQUIRED IN ADDITION TO GROUP 2. PROVIDES NEW BELL SYSTEM COLOR SCHEME. DA EFF:05/31/99 FE/RA:NONE		DA	A	1	ED4C191-30	GRPA					

END OF TABLE-A

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COMMON SYSTEMS
 SPECIFICATION FOR
 3B COMPUTER
 COOLING UNIT

DWG SIZE C2 ISSUE 11

ED4C191-30

LUCENT TECHNOLOGIES INC ED4C191-30

SHEET A2 OF 8

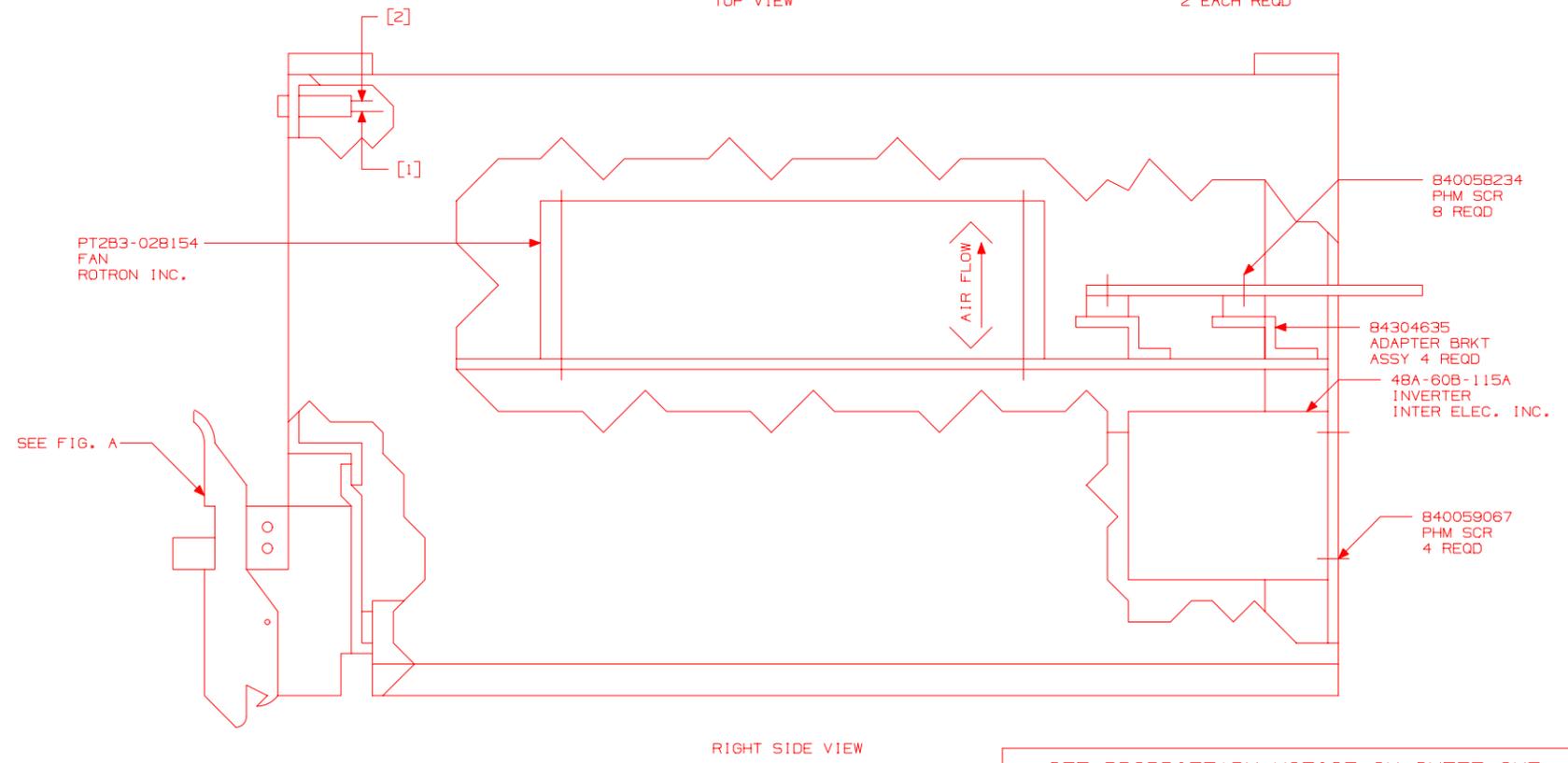
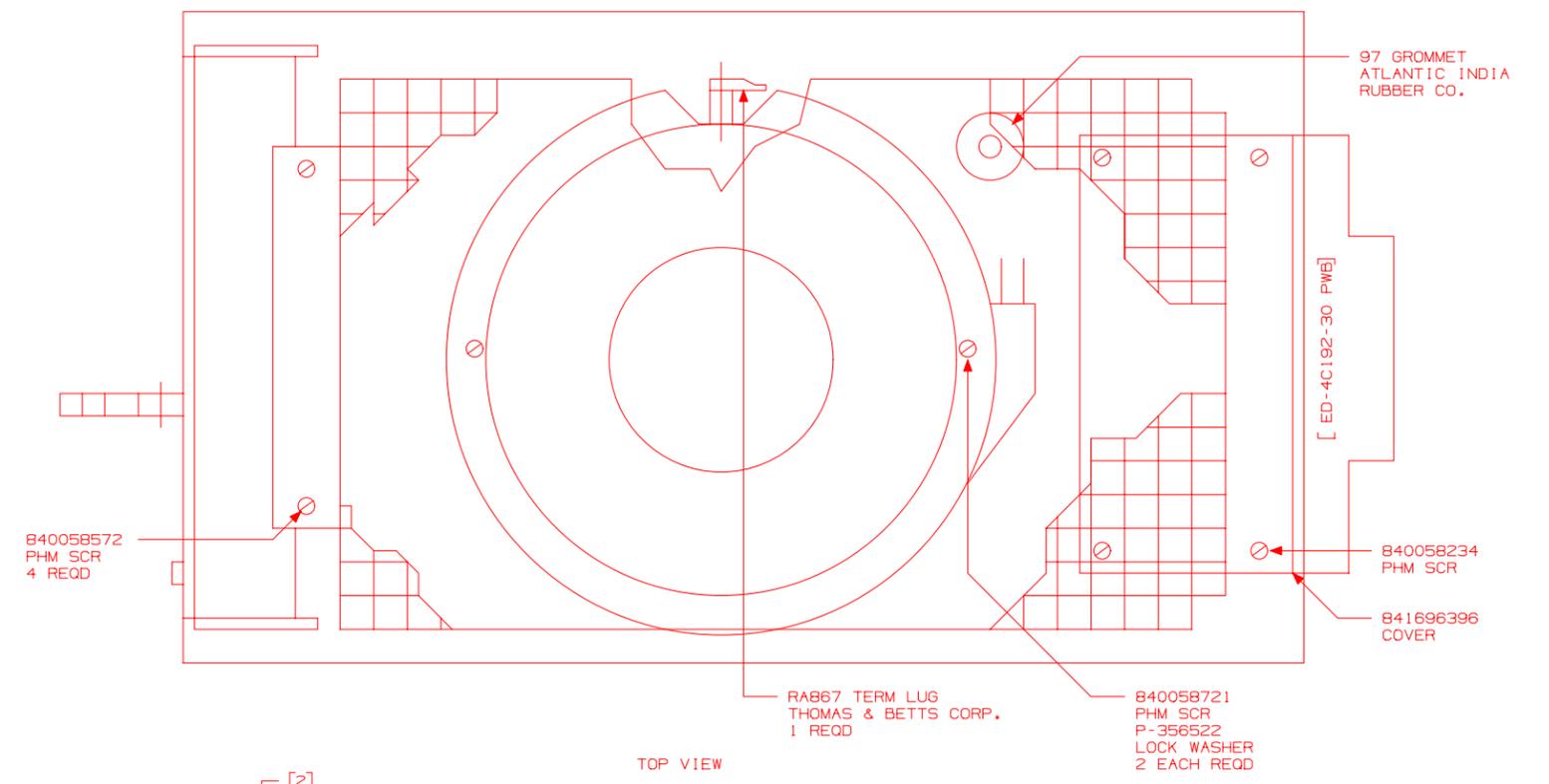
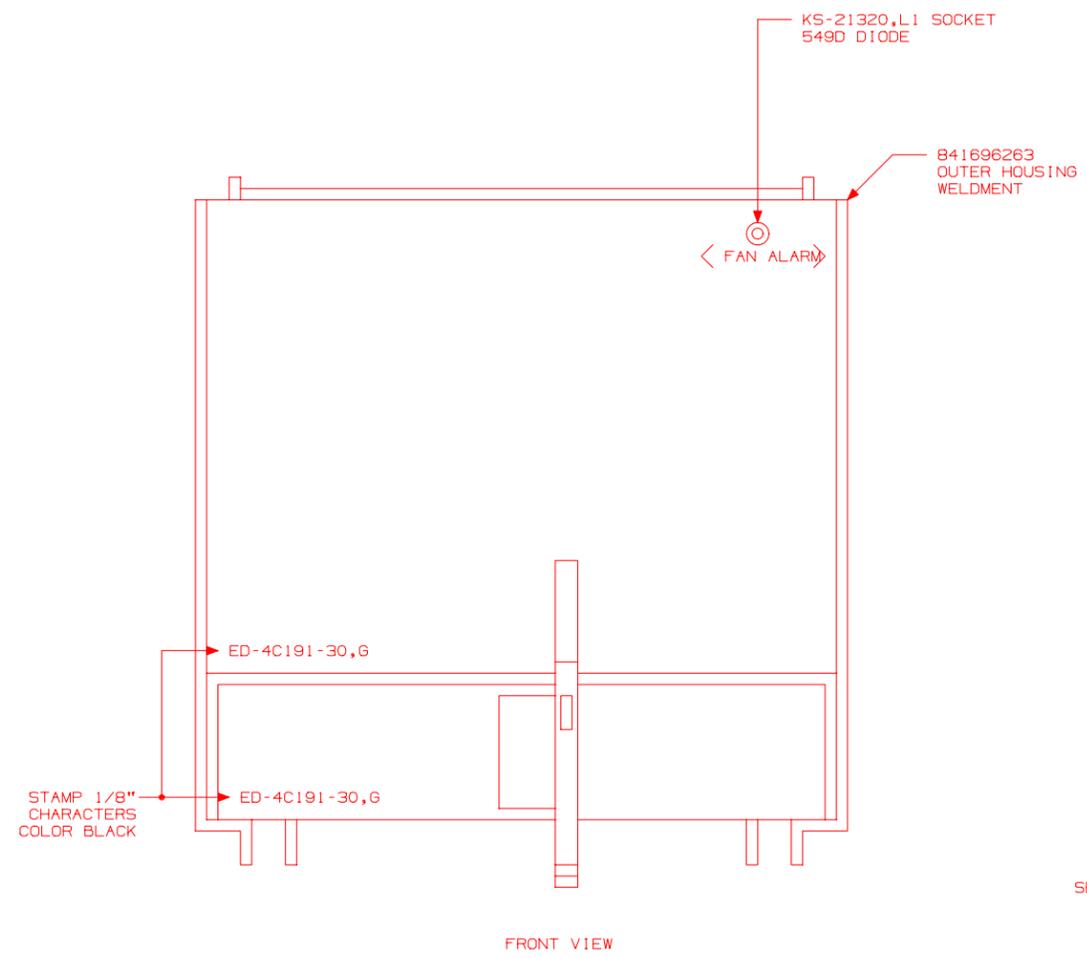


FIG. 1
GROUP 1
MFR MISC.

SEE PROPRIETARY NOTICE ON SHEET ONE		
COOLING UNIT	DWG SIZE	ISSUE
	C2	11
LUCENT TECHNOLOGIES INC	ED4C191-30 <small>PRINTED IN U.S.A.</small>	SHEET B1

SHEET INDEX	ISSUE								
	SH NO.								
	ISSUE								
	SH NO.								
	ISSUE	11	11	11					
	SH NO.	B1	B2	B3					

ED4C191-30

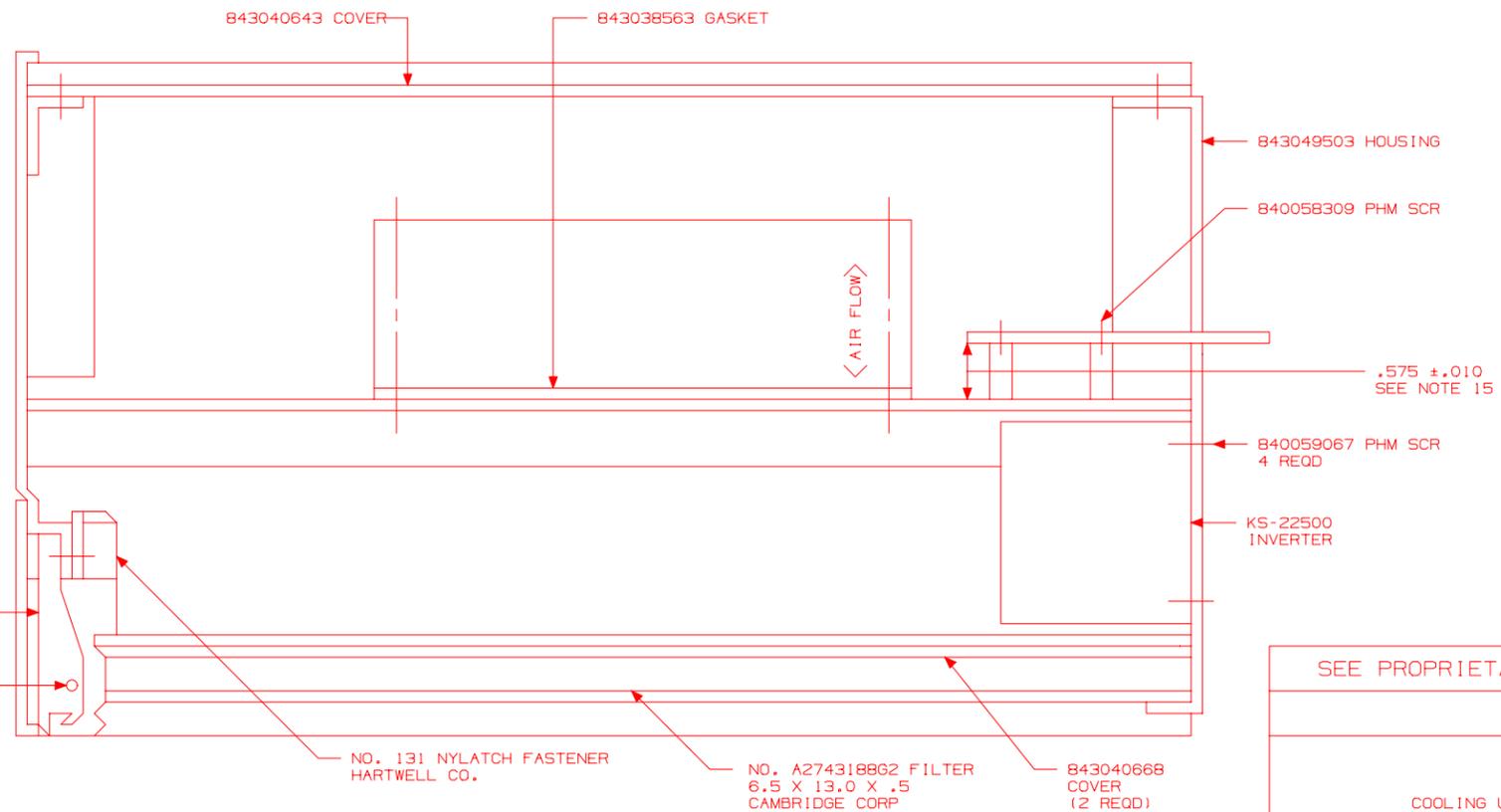
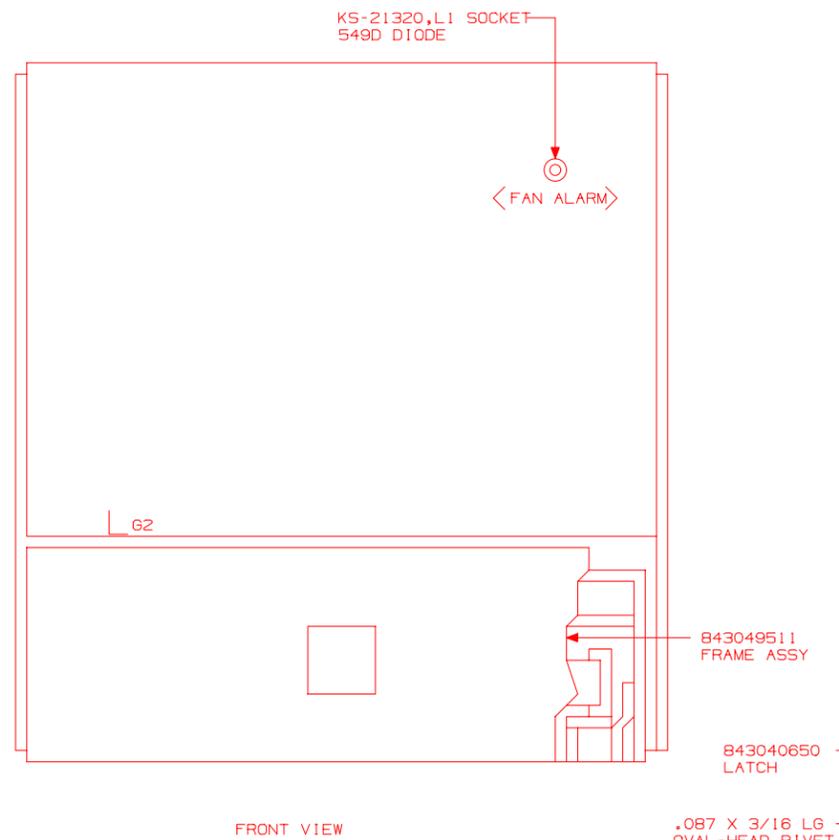
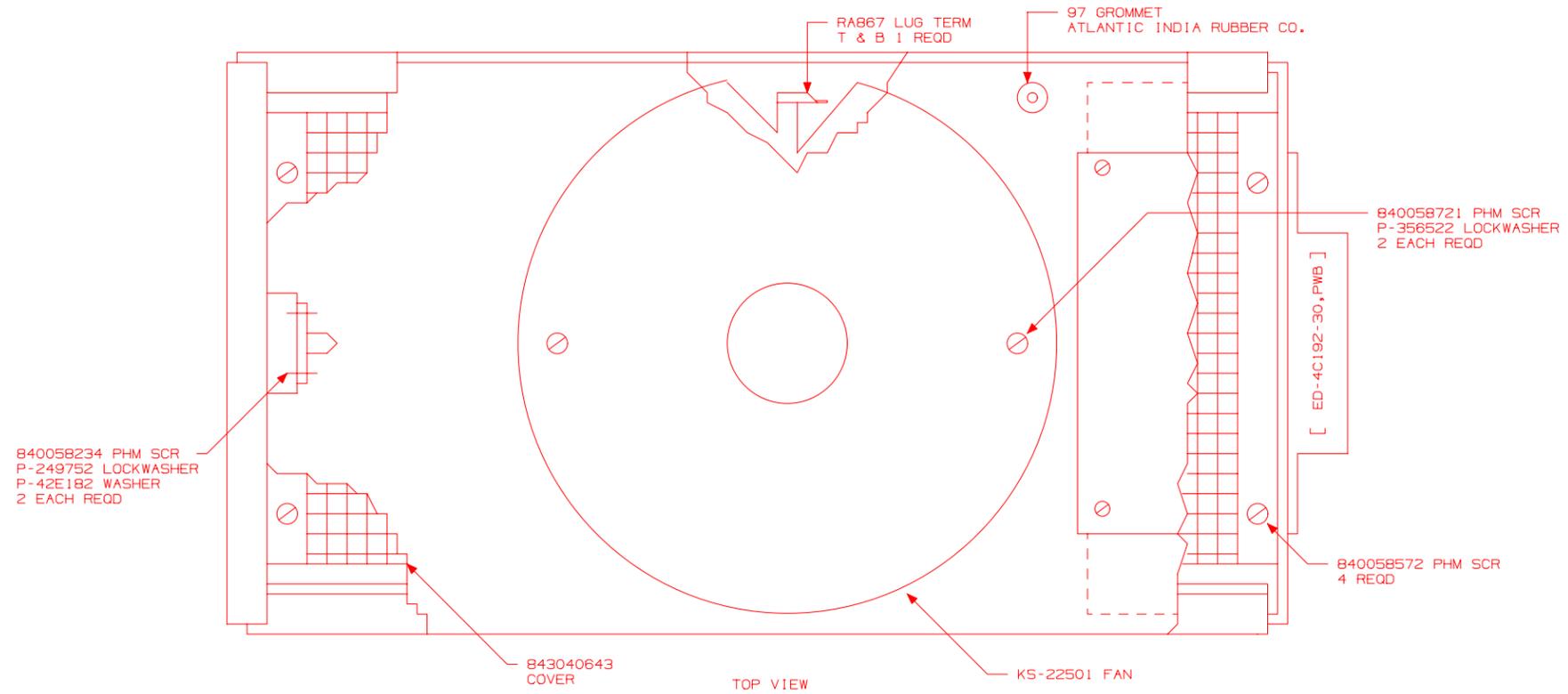
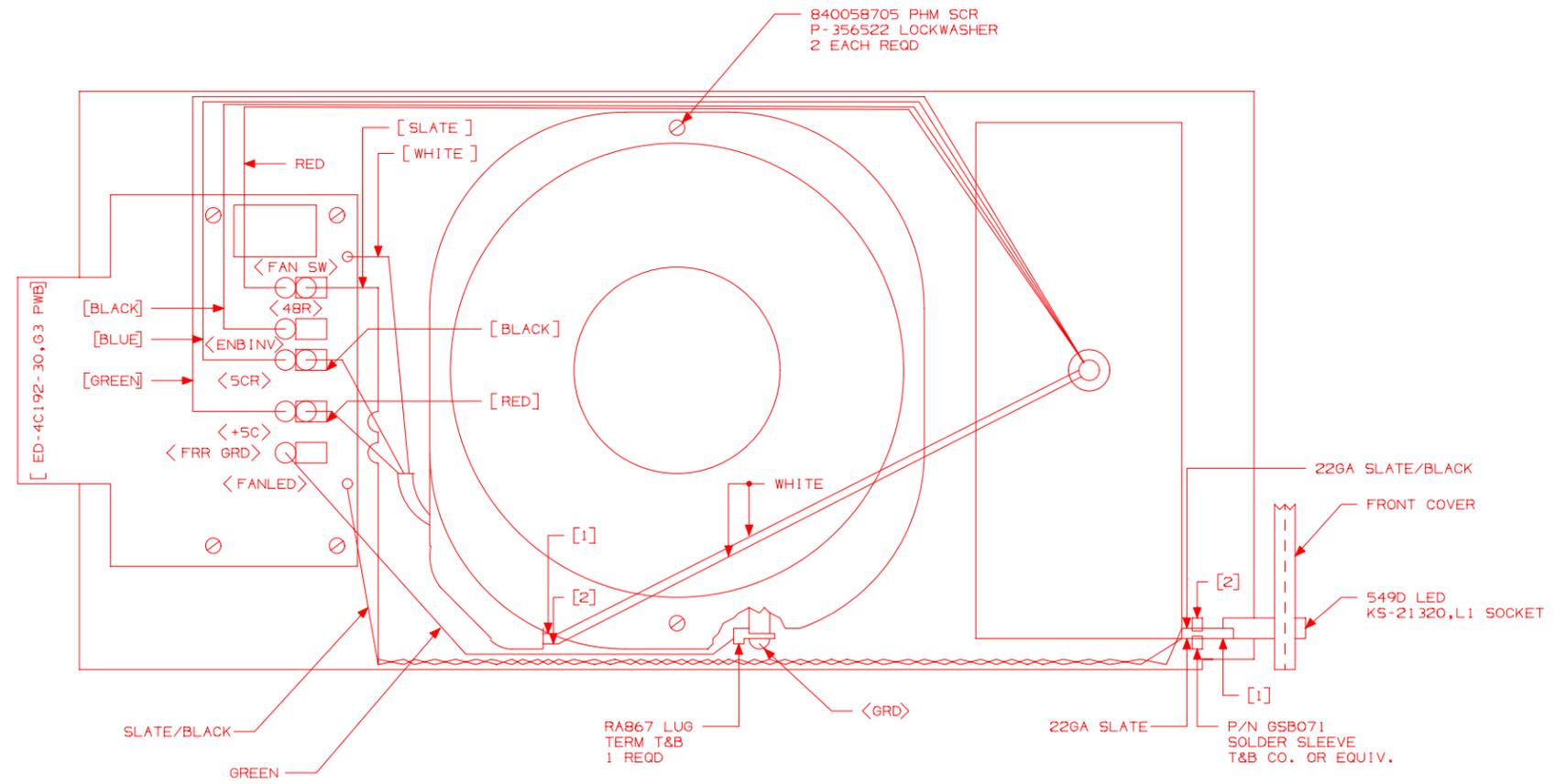
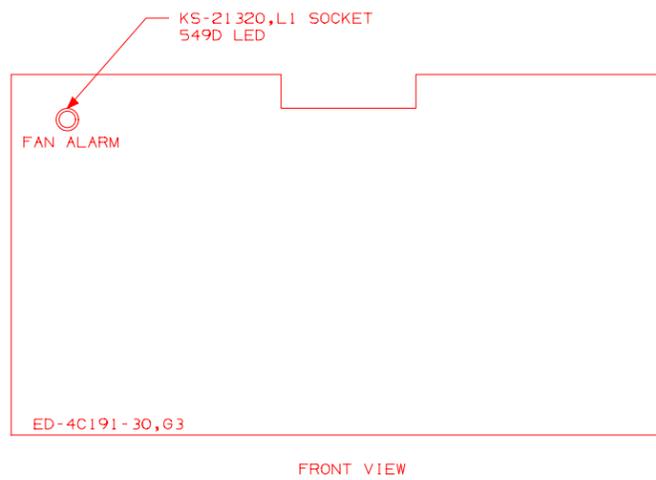
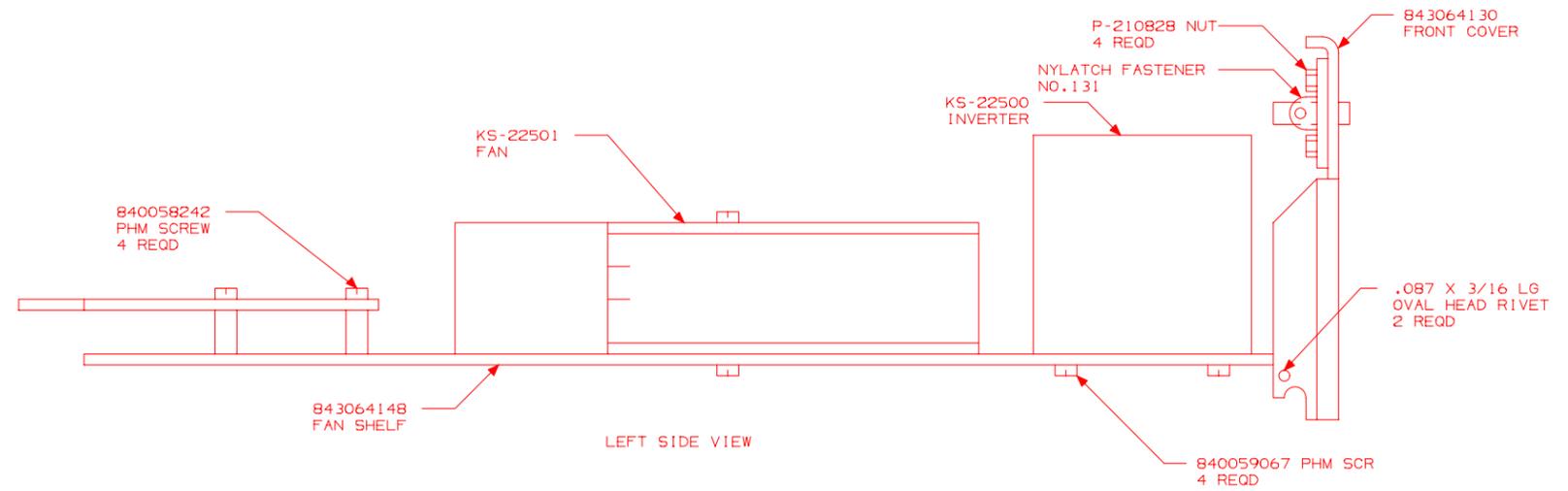


FIG. 2
GROUP 2
RIGHT SIDE VIEW

SEE PROPRIETARY NOTICE ON SHEET ONE		
COOLING UNIT	DWG SIZE	ISSUE
	C2	11
LUCENT TECHNOLOGIES INC	ED4C191-30 <small>PRINTED IN U.S.A.</small>	SHEET B2



TOP VIEW
METHOD OF WIRING FAN UNIT
AS VIEWED FROM TOP OF UNIT
SEE TABLE B

SEE PROPRIETARY NOTICE ON SHEET ONE

COOLING UNIT	DWG SIZE	ISSUE
	C2	11
ED4C191-30		SHEET
PRINTED IN U.S.A.		B3

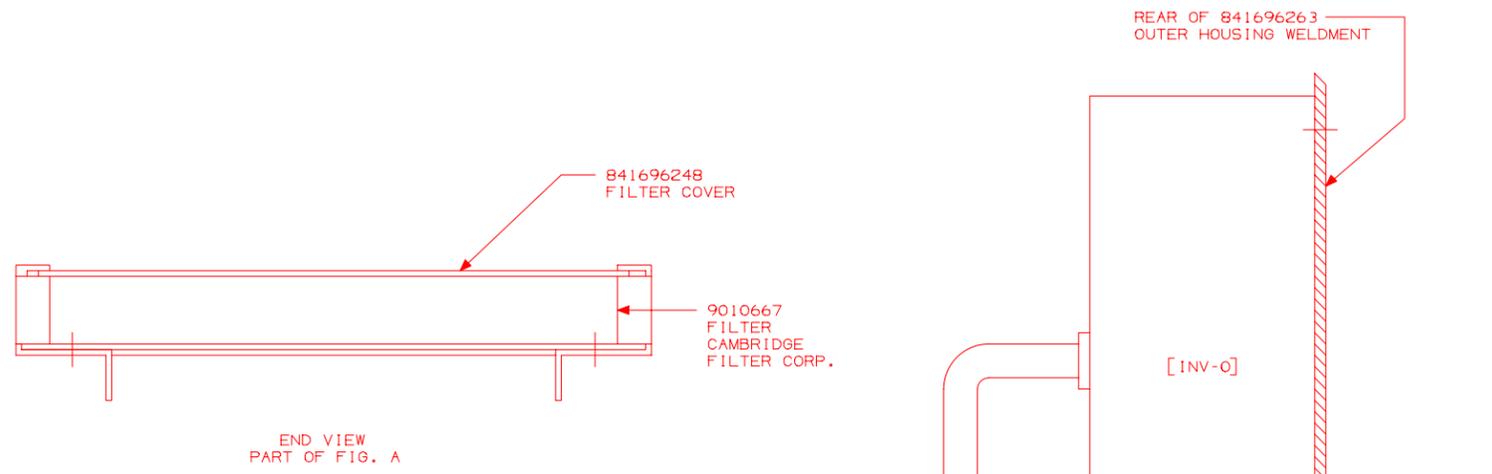
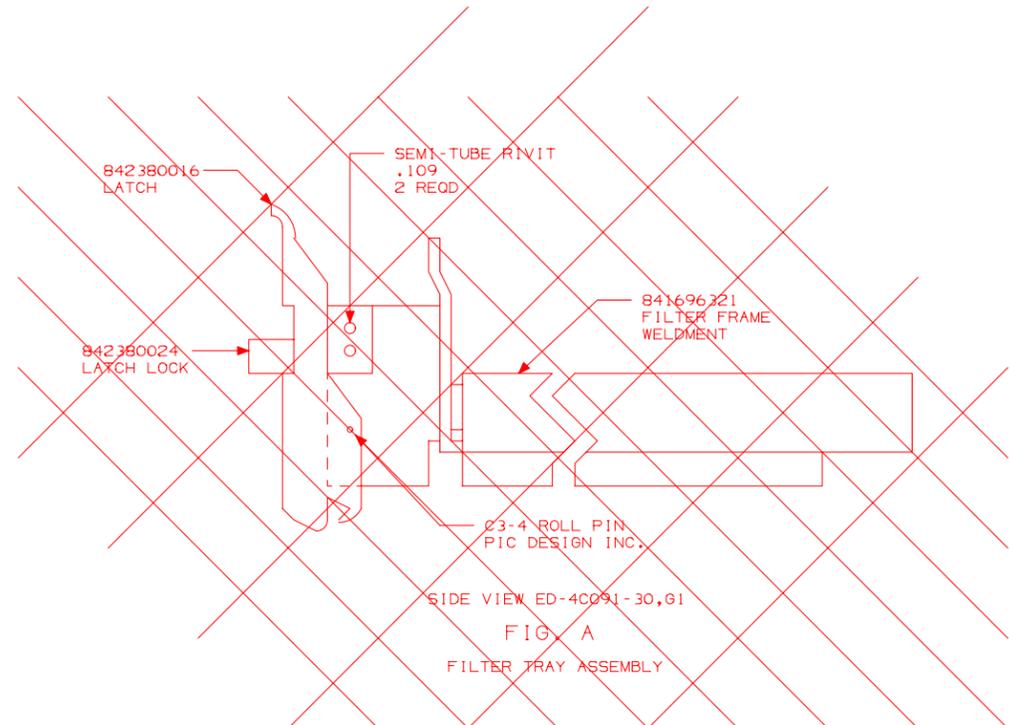


TABLE B										
LW ED-4C191-30										
WIRE METHOD LW (SEE FIG. B)										
LEAD LENGTH	NOTE	FROM			COLOR	GAUGE	TO			NOTE
		CPNT TYPE	FUNCTIONAL DESIGNATION	TERM			CPNT TYPE	FUNCTIONAL DESIGNATION	TERM	
		STRANDED WIRE, SINGLE FURNISHED WITH INVERTER								
		INVERTER	INV-O	—	BR	-	PWB	ED-4C192-30	48R	13
					BK	-	PWB	ED-4C192-30	ENBINV	13
					BL	-	PWB	ED-4C192-30	5CR	13
					G	-	PWB	ED-4C192-30	+5C	13
					W	-	FAN	FAN-O	1	
					W	-	FAN	FAN-O	2	
		STRANDED WIRE, SINGLE FURNISHED WITH FAN								
		FAN	FAN-O	—	BK	-	PWB	ED-4C192-30	5CR	13
					R	-	PWB	ED-4C192-30	+5C	13
					W	-	PWB	ED-4C192-30	FAN SW	
		KS-19195, L1 STRANDED WIRE, SINGLE								
12.0	13	FAN	FAN-O	GRD	G		PWB	ED-4C192-30	FRRGRD	13
		KS-13385, L1 STRANDED WIRE, PAIR								
14.0	14	DIODE		1	S		PWB	ED-4C192-30	48R	13
14.0	14	DIODE		2	S-BK		PWB	ED-4C192-30	FANLED	

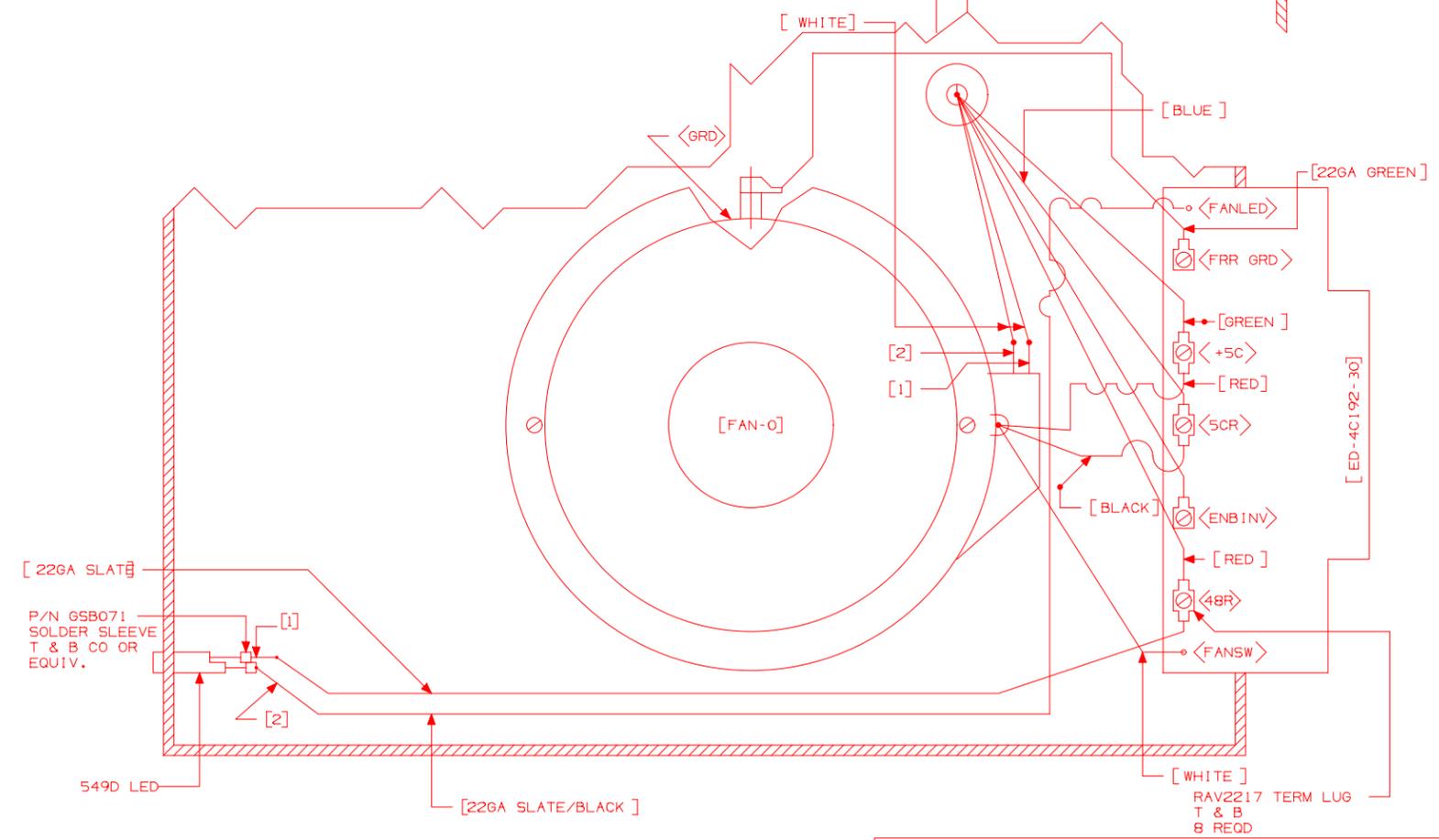


FIG. B
METHOD OF WIRING FAN UNIT
AS VIEWED FROM TOP OF UNIT
SEE TABLE B

SEE PROPRIETARY NOTICE ON SHEET ONE

COOLING UNIT	DWG SIZE	ISSUE
	C2	11
LUCENT TECHNOLOGIES INC	ED4C191-30	SHEET C1

PRINTED IN U.S.A.

SHEET INDEX	ISSUE								
	SH NO.								
	ISSUE								
	SH NO.								
	ISSUE	11							
	SH NO.	C1							

ED4C191-30

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1010	1	1	841696263		HOUSING, OUTER WELDMENT			
1020	1	1	841696321		FILTER, WELDMENT FRAME			
1030	1	1	ED4C192-30,G2		ASSEMBLY, PRINTED WIRING BOARD			16
	2	1	G2		MOD A,D			
1031	2	1	ED4C192-30,G3		ASSEMBLY, PRINTED WIRING BOARD			
	3	1	G3		MOD B,C			
1040	1,2,3	1	102602117	549D	DIODE, LIGHT EMITTING RED			
1050	1,2,3	1	401273040	KS21320L1	SOCKET, RELAY			
1070	1,2	1	402241814		INVERTER			
					#18A-60B-115A			
					INTELECTRONICS INC.			
1071	2,3	1	402668701	KS22500L1	INVERTER			
1080	1,2	1	996512083		GROMMET #97 ATLANTIC INDIA RUBBER CO			
1100	1	1	841696396		COVER, TOP			
1110	1	1	842380016		LATCH			
1120	1	1	842380024		LATCH, LOCK			
1130	1	2	900363607		RIVET, SEMI-TUBULAR .059 X 7/64 IN.LG.ZINC PLATED FINISH STEEL .0002 IN.THICK TUBULAR RIVET & STUD CO. R.H. .109			
1140	1	1	996223111		PIN, STAINLESS STEEL ROLL 1/16 X 1/4 IN. AISI 420 CORROSION RESISTANT BENRUS CORP.			
1141	2	2	996223111		PIN, STAINLESS STEEL ROLL 1/16 X 1/4 IN. AISI 420 CORROSION RESISTANT BENRUS CORP.			
1142	2	2	900574419		RIVET, OVAL HEAD .059 DIA X .172 IN LONG SEMI-TUBULAR STEEL			
1150	1	1	402241764		FILTER #9010667 CAMBRIDGE FILTER CORP (6.75 IN. X 11.5 IN. X .5 IN.)			
1160	1	1	841696248		COVER FILTER			
1170	2	4	840058309		SCREW, PAN HEAD MACHINE .112-40 X 5/8 STEEL 289A FINISH			
1180	1,2	4	840058572		SCREW, PAN HEAD MACHINE .138-32 X 1/4 STEEL 289A FINISH			
1190	1,2	2	840058721		SCREW, SPECIAL PAN HEAD MACHINE .138-32 X 2-1/4 STEEL 289A FINISH			
1200	1,2,3	2	803565225	P356522	WASHER, INTERNAL TOOTH LOCK .138 STEEL 289A FINISH			
1210	1,2,3	4	840059067		SCREW, PAN HEAD MACHINE .164-32 X 3/8 STEEL 289A FINISH			
1220	1,2,3	1	402369698		LUG, TERMINAL #RA867 THOMAS & BETTS CO.			
1221	1,2,3	8	401521943		LUG, TERMINAL #AV221 STA-KON THOMAS & BETTS CO.			13
1230	1,2,3	A/R	401169339	KS19195L1	WIRE 22GA STRANDED G STRANDED, SINGLE			
1240	1,2,3	A/R	401299359	KS13385L1	WIRE 22GA STRANDED PAIR S/S-BK PAIR			
1250	1,2,3	2	900191123		SLEEVE, SOLDER #GSB-071 THOMAS & BETTS CO.			14

STOCKLIST CONTINUED ON SHEET D2

ED4C191-30

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MANUFACTURING NOTES

1. X PARTS REQUIRED FOR INSTALLATION.
- X/ PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED OR BY THE INSTALLER WHEN THE EQUIPMENT IS TO BE FIELD MOUNTED.
- * PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
- */ PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT INVOLVED IS SHOP MOUNTED OR (B) TO BE SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.
- () INDICATES DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
- { } INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
- < > INDICATES DESIGNATIONS AND/OR INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
- "W" PARTS ASSEMBLED AT THE SAME TIME THE EQUIPMENT IS MOUNTED.
- "W*" PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.
- "S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.
- A/R AS REQUIRED.
- "B" PARTIAL ASSEMBLIES ON OTHER DRAWINGS WITH STOCKLISTS.
- X 13. SHINE 22 GA WIRES 1/4 INCH AND EQUIP. EACH LEAD WITH A AV221 THOMAS & BETTS STA-LON TERMINAL.
- X 14. EQUIP LEADS WITH SOLDER SLEEVES GSB-071.
- X 15. PROPER CLEARANCE MUST BE MAINTAINED BETWEEN THE BOT OF THE PWB AND THE TOP OF THE SHELF ASSY. STUDS SHALL BE MODIFIED IF NECESSARY.
- X X 16. GROUP TWO IS NOT FIELD GRADE, AND SHALL NOT BE ORDERED.

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COMMON SYSTEMS
 SPECIFICATION FOR
 3B COMPUTER
 COOLING UNIT

RN98

DWG SIZE C2 ISSUE 11

LUCENT TECHNOLOGIES INC ED4C191-30 SHEET OF 8

STOCKLIST

ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1255	1,2	1	402241756		FAN #1A600-A30318-10-70 TORIN CORP.			
1256	2,3	1	402668693	KS22501L1	FAN			
1260	1	4	843040635		ASSEMBLY, BRACKET ADAPTER			
1261	1	8	840058234		SCREW, PAN HEAD MACHINE .112-40 X 3/16 STEEL 289A FINISH			
1270	2	1	843040569		ASSEMBLY, HOUSING			
1271	A	OMIT 1	843040569		ASSEMBLY, HOUSING			
1272	A	1	843049503		ASSEMBLY, HOUSING			
1275	1,2	1	843038563		GASKET			
1280	2	1	843040627		ASSEMBLY, FRAME			
1281	A	OMIT 1	843040627		ASSEMBLY, FRAME			
1282	A	1	843049511		ASSEMBLY, HOUSING			
1285	2	1	843040643		COVER			
1290	2	1	843040650		LATCH			
1295	2	2	843040668		COVER			
1300	2	1	402973416		FILTER, FAN #A2743188G2 CAMBRIDGE FILTER CORP. (6.5 IN. X 13.0 X .5)			
1305	2	1	900573130		FASTENER, NYLATCH #131 HARTNELL CO.			
1310	2	2	840058234		SCREW, PAN HEAD MACHINE .112-40 X 3/16 STEEL 289A FINISH			
1315	2	2	802497529	P249752	WASHER, INTERNAL TOOTH LOCK .112 STEEL 289A FINISH			
1320	2	2	814251823	P42E182	WASHER, PLAIN .112 STEEL 289A FINISH			
1330	3	4	802108282	P210828	NUT, HEXAGON HEAD .112-40 STEEL			
1340	3	1	843064148		ASSEMBLY, SHELF FAN			
1350	3	1	843064130		ASSEMBLY, COVER FRONT			
1360	3	2	900573130		FASTENER, NYLATCH #131 HARTNELL CO.			
1370	3	4	840058242		SCREW, PAN HEAD MACHINE .112-40 X 1/4 STEEL 289A FINISH			
1380	3	2	840058705		SCREW, PAN HEAD MACHINE .138-32 X 1-3/4 STEEL 289A FINISH			
1390	3	2	996240404		RIVET, OVAL HEAD SEMI-TUBULAR STEEL .087 X 3/16 IN. ZINC PLATE NO 289A FINISH			

***** END OF STOCKLIST *****

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COMMON SYSTEMS
SPECIFICATION FOR
3B COMPUTER
COOLING UNIT

DWG SIZE C2 ISSUE 11

ED4C191-30

LUCENT TECHNOLOGIES INC ED4C191-30

SHEET OF D2 8