

2011-02-07 08:42:48 CRS000 828-3775-002 C

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NOTES:
1. "T" DESIGNATES CIRCUIT CARD ASSEMBLY TOP SURFACE.
2. REFERENCE DESIGNATORS USED IN LIEU OF ITEM NUMBERS.
3. PARENTHETICAL INFORMATION IS FOR REFERENCE ONLY.
4. ITEM IDENTIFICATION BALLOONS DENOTE ITEM NUMBER OR ITEM NUMBER - QUANTITY.
5. UNLESS OTHERWISE SPECIFIED, ASSEMBLY SHALL BE IN ACCORDANCE WITH ITEM 3. ADDITIONAL MODIFICATIONS SHALL BE IN ACCORDANCE WITH ITEM 59.
6. Z MAX DIMENSIONS, EXCLUDING CONNECTORS, PIN FIELDS, AND MECHANICAL HARDWARE:
 Z TOP SHALL BE 1.063
 Z BOTTOM SHALL BE .198
 MAXIMUM LEAD PROTRUSION SHALL BE .090
7. APPLY IDENTIFICATION MARKING IN APPROXIMATE LOCATION SHOWN, IN ACCORDANCE WITH ITEM 4, TYPE 2, CLASS II.
8. CAUTION: THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES, AND/OR ASSEMBLIES IDENTIFIED AS CLASS 1 IN ACCORDANCE WITH MIL-STD-1686. HANDLE IN ACCORDANCE WITH ITEM 5. ESD SYMBOL APPLIED BY PRINTED WIRING BOARD FABRICATION PROCESS.
9. THIS CIRCUIT CARD ASSEMBLY WILL BE TESTED AT A HIGHER LEVEL.
10. CONFORMAL COAT ASSEMBLY USING ITEM 7 IN ACCORDANCE WITH ITEM 6. HATCHED AREAS INDICATED SHALL BE FREE OF CONFORMAL COATING, AND SHALL APPROXIMATE SOLDER MASK CLEARANCE ON FAB BOARD.ITEM 50 SHALL BE CONFORMAL COATED.
11. ITEM 8 MAY BE UTILIZED ON THIS ASSEMBLY.
12. UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE EXPRESSED IN INCHES AND SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5M-1994.
13. ABBREVIATIONS AND ACRONYMS NOT IN ACCORDANCE WITH ASME Y14.38:
 VERY HIGH FREQUENCY (VHF)
14. ITEM 49 KEYED AS SHOWN. DARKENED PORTION INDICATES CLOSED PORTION OF KEYWAY.
15. INSERT ITEMS 46 AND 47 INTO ITEM 21, AND INSERT ITEM 45 INTO ITEM 57, SOLDER TO ITEM 1.
16. LIQUID STAKE ALL SCREW THREADS USING ITEM 10 IN ACCORDANCE WITH ITEM 9 OR ITEM 11 WHEN NO OTHER LOCKING METHOD IS PROVIDED.
17. BOND ITEM 31 TO CONNECTOR, ITEM 49, APPROXIMATELY WHERE SHOWN BY CROSSHATCH USING ITEM 56 IN ACCORDANCE WITH ITEM 55.
18. BOND ITEMS 50, 51 AND 52 TO EACH OTHER AND TO ITEM 1 USING ITEM 56 IN ACCORDANCE WITH ITEM 55.

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THE TECHNICAL DATA IN THIS DOCUMENT (OR FILE) IS CONTROLLED FOR EXPORT UNDER THE EXPORT ADMINISTRATION REGULATIONS (EAR), 15 CFR PARTS 730-774. VIOLATIONS OF THESE EXPORT LAWS MAY BE SUBJECT TO FINES AND PENALTIES UNDER THE EXPORT ADMINISTRATION ACT.

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CAUTION
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD)

PARTS LIST CONTINUED ON THE FOLLOWING SHEET

10	35	844-0103-010	SEMICON DVC, DIODE				VR3-12
4	34	844-0077-010	DIODE, RECTIFIER				CR2,4-6
2	33	834-5034-030	CAPACITOR, 1200pF				C164, 165
48	32	834-5031-010	CAPACITOR, 100pF				C9, 10, 29, 30, 32-74, 85
2	31	714-1694-020	RESISTOR, VOLTAGE DEPENDENT			17	RV1, 2
4	30	714-1680-050	RESISTOR, VOLTAGE DEPENDENT				RV4, 6-8
44	29	705-3621-120	RESISTOR, FIXED, 18 OHM, 1W, 10%				R63-88, 93, 94, 98-104, 108-116
56	28	705-3621-100	RESISTOR, FIXED, 5.6K OHM, .33W, 1%				R1-13, 15-55, 95, 96
2	27	705-3551-970	RESISTOR, 0 OHMS				R56, 97
1	25	705-3543-020	RESISTOR, 0.0 OHM				R105
4	24	705-3538-890	RESISTOR, 162K OHMS				R89-92
1	23	705-2437-010	RESISTOR, 0 OHM				R14
1	22	664-0242-020	TRANSFORMER				T5
2	21	653-2695-002	SPRING, COAX GROUND			15	
1	20	653-2673-001	SPACER - BOTTOM ARINC CONNECTOR				
1	19	653-2672-001	SPACER - MIDDLE ARINC CONNECTOR				
1	18	653-2671-001	SPACER - TOP ARINC CONNECTOR				
2	17	372-7577-060	CONNECTOR, PCB, HEADER				P6, 7
1	16	353-0631-020	SEMICON DVC, DIODE				VR13
8	15	353-0620-120	DIODE, TRANSIENT SUPPRESSOR				VR1, 2, 14-19
6	14	330-1716-080	SCREW, PAN, 0.086-56				
6	13	310-0129-000	WASHER, FLAT - .188 OD				
REF	12	839-0518-001	REQUIREMENTS, THREAD-LOCKING				
REF	11	580-5677-001	PROCESS, THREAD-LOCKING			16	
AR	10	005-2028-010	COMPOUND, THREAD-LOCKING			16	
REF	9	580-6039-001	PROCESS, THREAD-LOCKING			16	
REF	8	580-6520-001	STANDARD ASSY PRACTICES			11	
AR	7	821-0650-020	INSULATING COMPOUND, ACRYLIC			10	
REF	6	580-5458-001	CONFORMAL COATING, ACRYLIC-BASED, APPLIC			10	
REF	5	489-0004-001	PROCEDURE, ESD			8	
REF	4	580-1497-001	PROCESS, MARKING IDENT			7	
REF	3	523-0778764	RC WORKMANSHIP STD MANUAL			5	
REF	2	828-9175-002	SCHEMATIC DIAGRAM				
1	1	826-0004-385	PRINTED WIRING BOARD				
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR
PARTS LIST							

CONTRACT NO

PREP
S. RUTHERFORD 2010-03-30

CHK
R. LOVE 2010-03-30

APVD
B. AULAKH 2010-03-30

828-3775-001

VHF-2200

NEXT ASSY

USED ON

ALL SHEETS ARE THE SAME REVISION STATUS

APPLICATION

THIRD ANGLE PROJECTION

ROCKWELL COLLINS

CIRCUIT CARD ASSEMBLY
REAR INTERCONNECT A1

SIZE
D

CAGEC
0EFDO

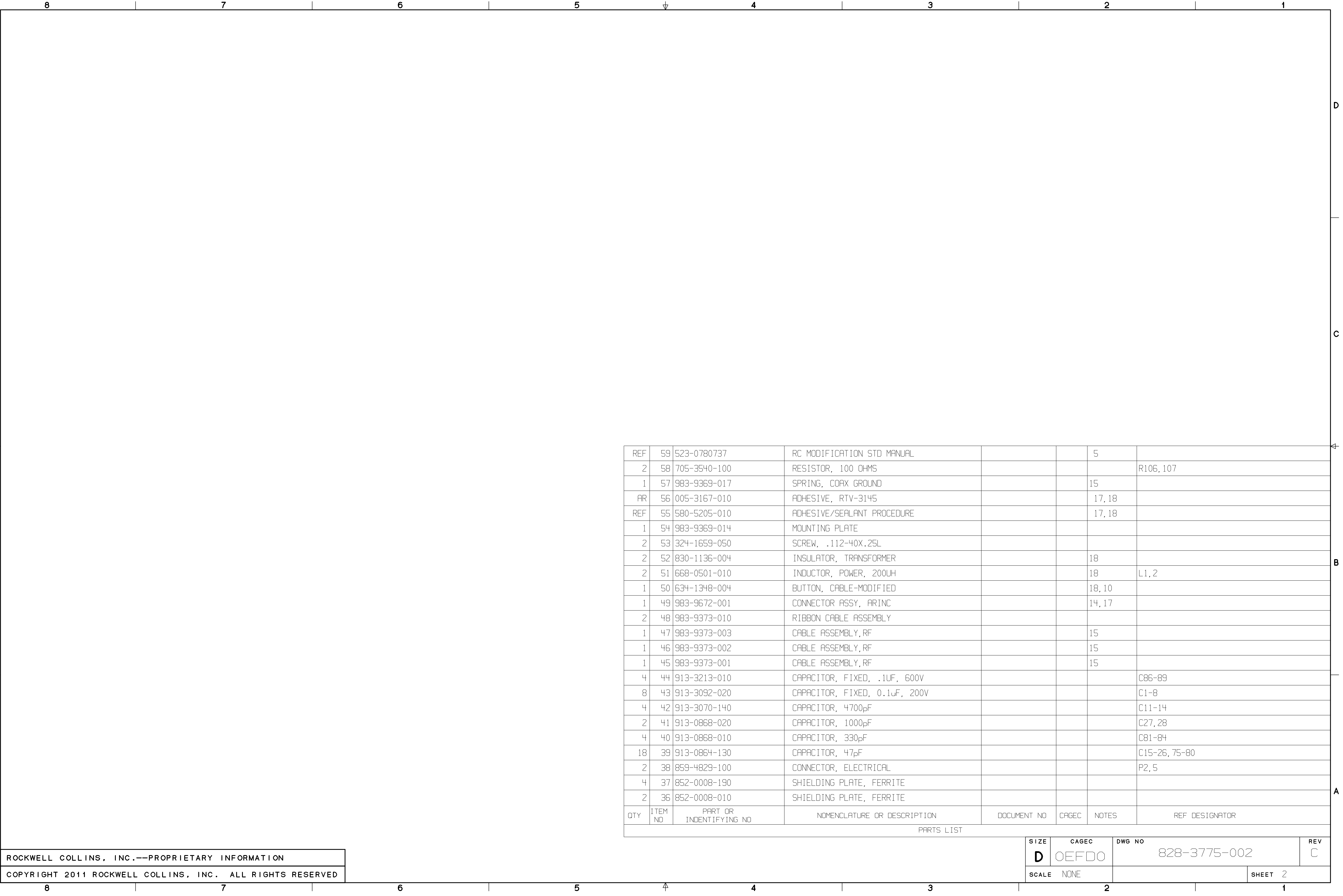
DWG NO
828-3775-002

REV
C

SCALE
NONE

SHEET
1 OF 6

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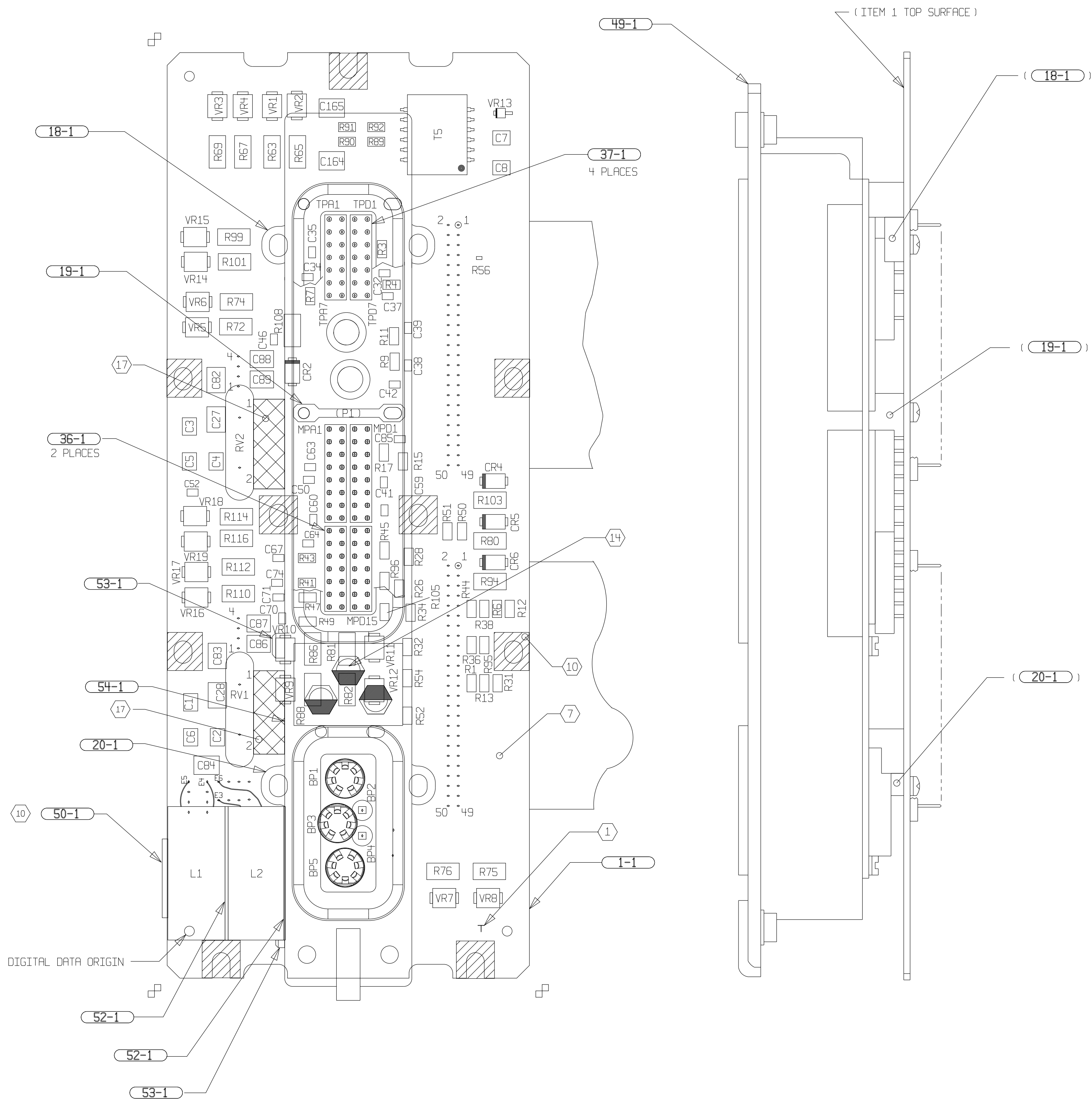
REF	59	523-0780737	RC MODIFICATION STD MANUAL			5	
2	58	705-3540-100	RESISTOR, 100 OHMS				R106, 107
1	57	983-9369-017	SPRING, COAX GROUND			15	
AR	56	005-3167-010	ADHESIVE, RTV-3145			17, 18	
REF	55	580-5205-010	ADHESIVE/SEALANT PROCEDURE			17, 18	
1	54	983-9369-014	MOUNTING PLATE				
2	53	324-1659-050	SCREW, .112-40X.25L				
2	52	830-1136-004	INSULATOR, TRANSFORMER			18	
2	51	668-0501-010	INDUCTOR, POWER, 200UH			18	L1, 2
1	50	634-1348-004	BUTTON, CABLE-MODIFIED			18, 10	
1	49	983-9672-001	CONNECTOR ASSY, ARINC			14, 17	
2	48	983-9373-010	RIBBON CABLE ASSEMBLY				
1	47	983-9373-003	CABLE ASSEMBLY, RF			15	
1	46	983-9373-002	CABLE ASSEMBLY, RF			15	
1	45	983-9373-001	CABLE ASSEMBLY, RF			15	
4	44	913-3213-010	CAPACITOR, FIXED, .1UF, 600V				C86-89
8	43	913-3092-020	CAPACITOR, FIXED, 0.1uF, 200V				C1-8
4	42	913-3070-140	CAPACITOR, 4700pF				C11-14
2	41	913-0868-020	CAPACITOR, 1000pF				C27, 28
4	40	913-0868-010	CAPACITOR, 330pF				C81-84
18	39	913-0864-130	CAPACITOR, 47pF				C15-26, 75-80
2	38	859-4829-100	CONNECTOR, ELECTRICAL				P2, 5
4	37	852-0008-190	SHIELDING PLATE, FERRITE				
2	36	852-0008-010	SHIELDING PLATE, FERRITE				
QTY	ITEM NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	DOCUMENT NO	CAGEC	NOTES	REF DESIGNATOR
PARTS LIST							

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SCALE	NONE	SHEET 2	

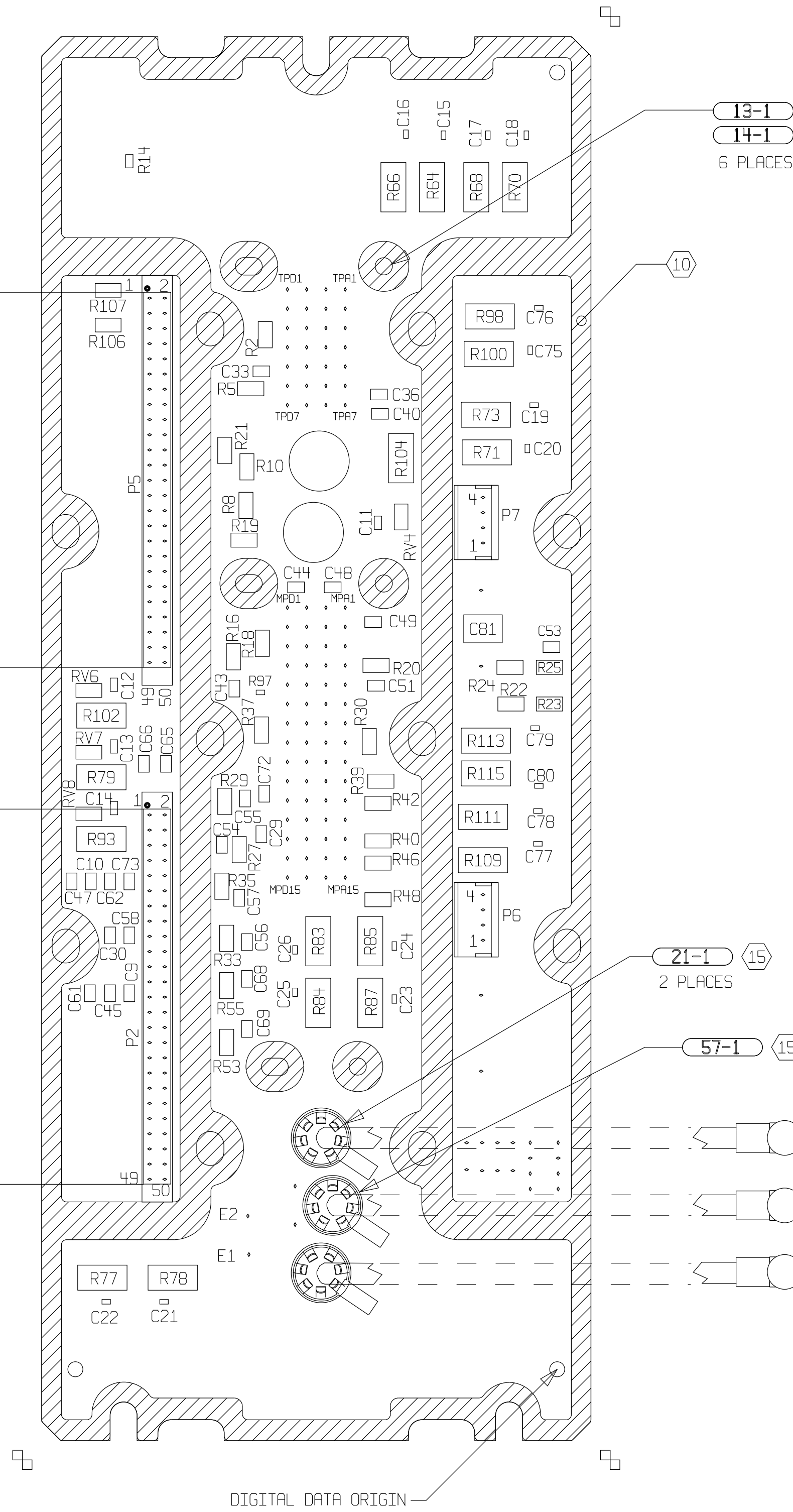
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COMPONENTS TOP

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SIZE	CAGEC	DWG NO	REV
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SCALE	NONE	SHEET 3	



COMPONENTS BOTTOM

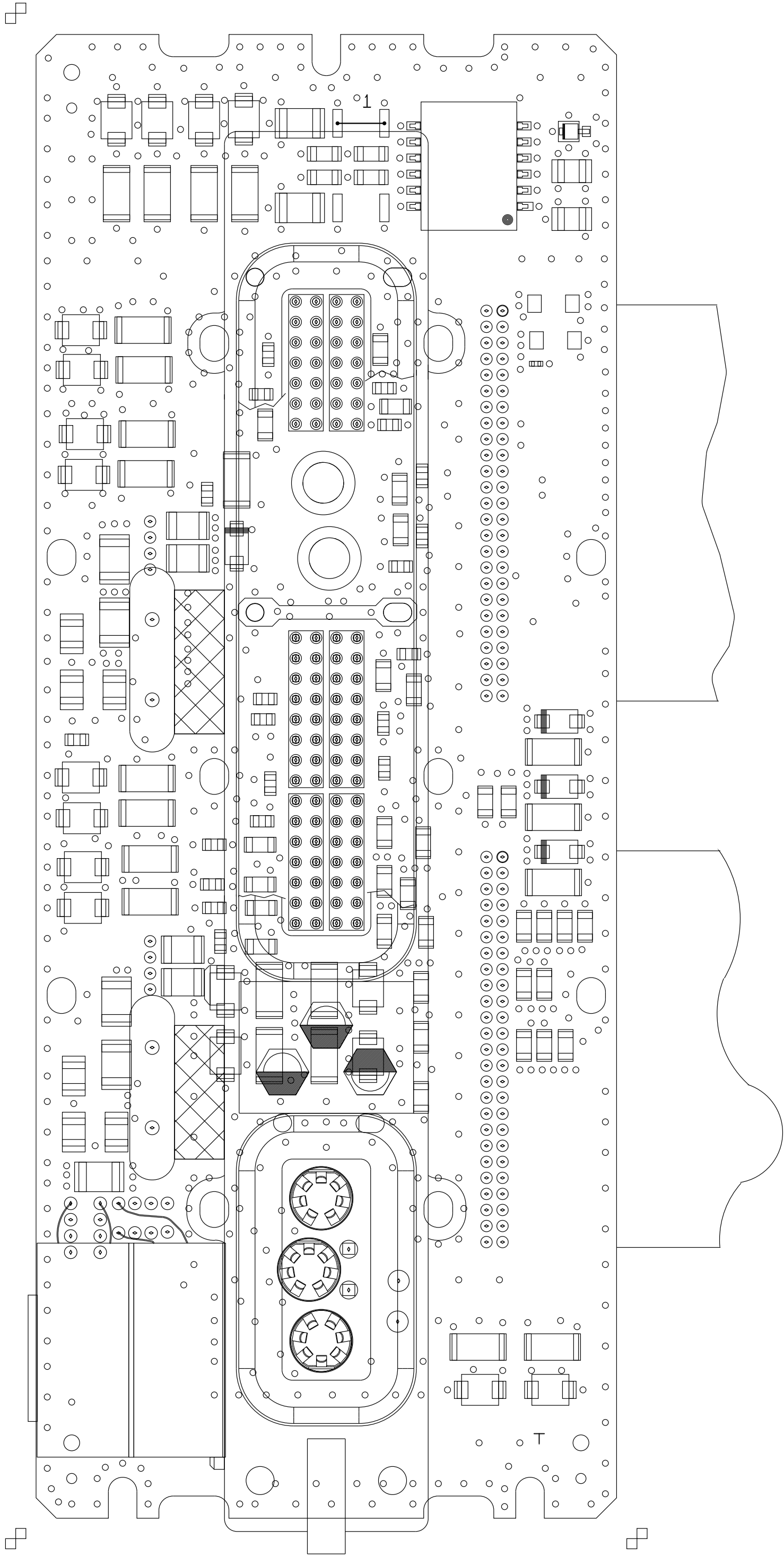
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SIZE D	CAGEC OEFD0	DWG NO 828-3775-002	REV C
SCALE NONE		SHEET 4	

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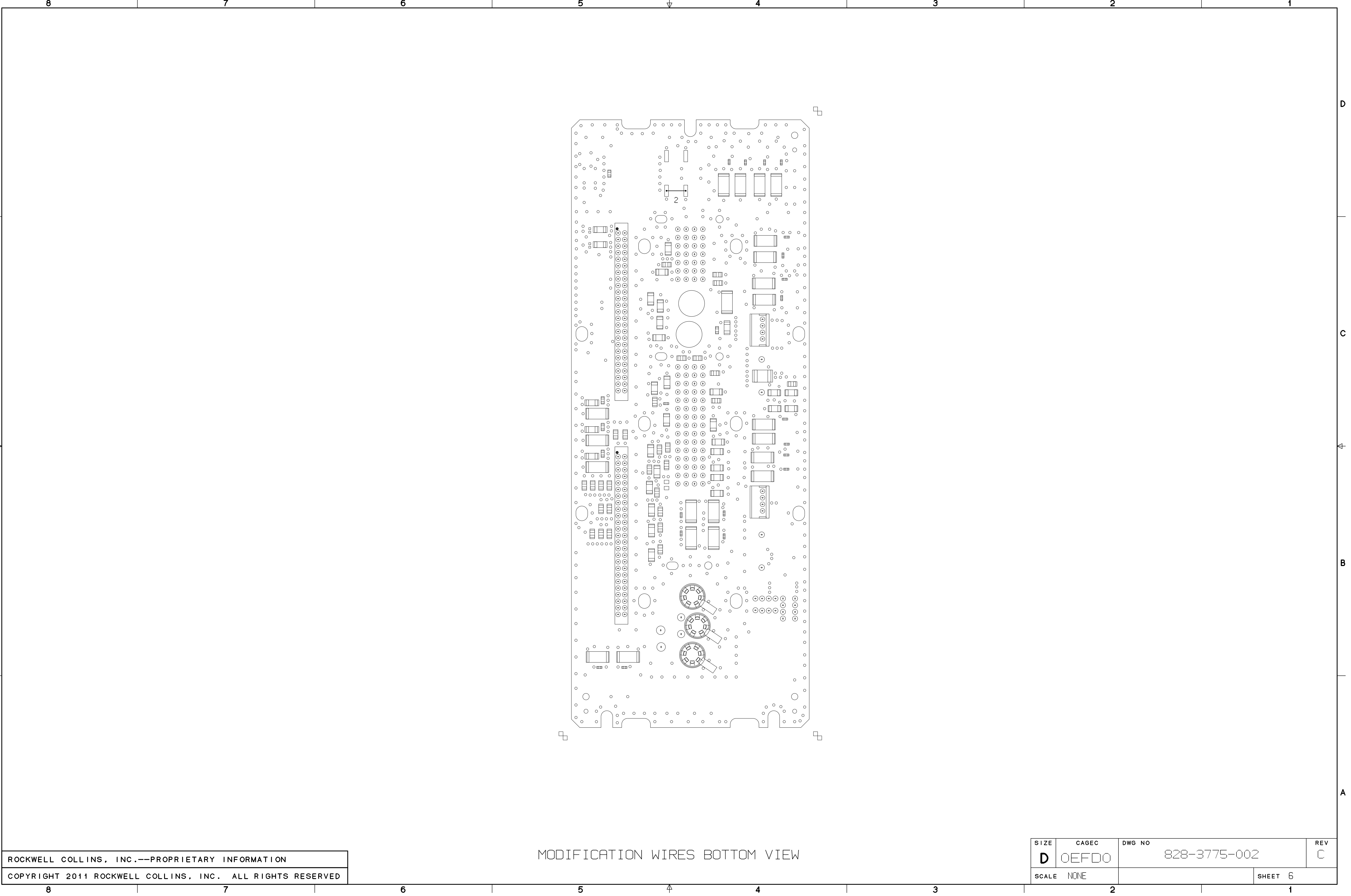
ROUTE WIRES APPROXIMATELY AS SHOWN UNLESS SPECIFIED BY NOTE.
USE 30 GAUGE WIRE UNLESS SPECIFIED BY CHART.

MODIFICATION WIRE USAGE CHART				
NO.	CONNECTS	TOP/BOT	GAUGE	NOTES
1	PAD TO PAD	TOP	22	
2	PAD TO PAD	BOT	22	



MODIFICATION WIRES TOP VIEW

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MODIFICATION WIRES BOTTOM VIEW

SIZE	CAGEC	DWG NO	REV
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SCALE	NONE		SHEET 6