

- NOTES:
1. PARENTHETICAL ITEM IDENTIFICATION DENOTES (ITEM FIND NO.-QTY).
 2. REFERENCE DESIGNATORS ARE USED IN LIEU OF ITEM FIND NUMBERS.
 3. 580-6520-001 MAY BE UTILIZED ON THIS ASSEMBLY.
 4. TO BE TESTED AT A HIGHER LEVEL.
 5. SOLDER PER COMMERCIAL REQUIREMENTS (580-5178-000).
 6. MAXIMUM Z TOP DIMENSION SHALL NOT EXCEED DIMENSIONS SHOWN ON SHEET 10. MAXIMUM Z BOTTOM DIMENSION SHALL NOT EXCEED 0.185 EXCEPT CRS, CR14, Q18, Q19, Q20, R113,140,141,143 AND ITEM 124 WILL HAVE A MAX ZBOT .250.
 7. MARK REV LETTER FOLLOWING THE APPROPRIATE LETTERS REV PER 839-0497-001. ASSEMBLY IDENTIFIED BY APPLICATION OF MARKING REQUIREMENTS ON FAB PART.
 8. MAXIMUM LEAD PROTRUSION TO BE .100.
 9. "T" DESIGNATES BOARD TOP SURFACE.
 10. PER MANUFACTURING, PROJECT OR CONTRACT REQUIREMENTS, MARK THE MANUFACTURING CONTROL NUMBER FOLLOWING THE LETTERS MCN PER 839-0497-001.
 11. CAUTION: THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES, HANDLE PER 489-0004-001. IDENTIFY PER 580-6535-001. LOCATE ITEM 11 APPROXIMATELY AS SHOWN.
 12. POSTCOAT TOP AND BOTTOM SIDES PER 580-5458-001. CROSSHATCHED AREAS TO BE FREE OF POSTCOAT.
 13. ALL JUMPER WIRE, IF APPLICABLE, IS 36 GAUGE OR LARGER ETCHED TEFLON INSULATED WIRE, U.O.S. BOND WIRE(S) TO BOARD PER 580-5573-001. ROUTING OF JUMPERS OPTIONAL U.O.S.
 14. FINELINE/FINEPITCH TECHNOLOGY UTILIZED WITH .005 CIRCUIT LINES AND .005 MINIMUM CONDUCTOR SPACINGS.
 15. ASSEMBLE ITEMS 171 AND 172 PER 580-5481-001.
 16. DESIGNATORS E1-21,35-38,41,43,44,46-48,52-54,68,69,70-88, ARE FOR REFERENCE ONLY.
 17. BOND ITEMS 135 TO PC BOARD ITEM 1 USING ITEM 151 PER 580-5205-010.
 18. INSTALL ITEM 124 FROM BOTTOM SIDE. HEAT STAKE TOP SIDE.
 19. BOND ITEMS 2,3,4 AND 5 TO ITEM 1 AND TO EACH OTHER USING ITEM 151 PER 580-5205-010. ADHESIVE FILLET SHALL EXTEND AROUND PERIMETER AND .100 INCHES MINIMUM UP THE BODY OF ITEMS 2,3,4 AND 5.
 20. SOLDER FILLET NOT REQUIRED UNDER HEEL OF LEAD INDICATED FOR ITEMS 48,50 AND 51.
 21. REMOVE SOLDERMASK FROM AREAS INDICATED.
 22. CUT CIRCUIT LINES AT LOCATION OF .
 23. COVER AREAS OF ITEM 1 UNDER U50 USING ITEM 187 APPROX AS SHOWN. VIAS INDICATED MUST BE COVERED.
 - 24.
 25. REWORK SHALL CONFORM TO PROCESS REQUIREMENTS.
 26. LAP SOLDER WHERE INDICATED BY .
 27. ALL MEASUREMENTS ARE FROM THE MASTER 0-0. MASTER 0-0 OFFSET IS X=0.100 AND Y=0.100.
 28. BY DESIGN ITEM 6 MIDDLE TERMINATION POINTS WILL NOT MEET OVERHANG REQUIREMENTS FOR END TERMINATION.
 29. BOND C450 AND R602 TO ITEM 1 USING ITEM 191 PER 839-0507-001.
 30. JUMPERS 4 AND 5 TO BE AS SHORT AS POSSIBLE.
 31. JUMPER NUMBER 22 IS ROUTED FROM BOARD TOPSIDE, THROUGH HOLE AND TERMINATED ON BOARD BOTTOM SIDE.
 32. APPLY ITEM 189 TO BOARD. TRIM AS REQUIRED. BOND C451,C452 AND R801 TO ITEM 189 USING ITEM 191 PER 839-0507-001.
 33. APPLY ITEM 189 TO BOARD. TRIM AS REQUIRED. BOND C453,C454 AND R802 TO ITEM 189 USING ITEM 191 PER 839-0507-001.
 34. APPLY ITEM 190 TO BOARD. TRIM AS REQUIRED. BOND R800 TO ITEM 190 USING ITEM 191 PER 839-0507-001.
 35. SEE NOTES 29,32,33,38 AND 40.
 36. BOND R49 TO U15 USING ITEM 191 PER 839-0507-001.
 37. BY DESIGN, ITEM 8, MIDDLE TERMINATION POINT WILL NOT MEET OVERHANG REQUIREMENTS FOR END TERMINATION.
 38. BOND C270-285 TO TOP OF CR10 AND CR15-29 USING ITEM 191 PER 839-0507-001.
 39. ISOLATE PAD BY DRILLING AN .047 INCH DIAMETER HOLE AT LOCATION INDICATED BY . FILL WITH HYSOL.
 40. APPLY ITEM 190 TO BOARD. TRIM AS REQUIRED. BOND R601 TO ITEM 190 USING ITEM 191 PER 839-0507-001.
- NOTES CONTINUED ON PAGE 2

SCHEMATIC AND FAB BOARD APPLICABILITY REF. TABLE					
SCHEMATIC	ALT LTR	FAB BOARD	ALT LTR	CKT CARD ASSY	ALT LTR
828-8587-002	B	826-0007-476	A	828-3187-002	C
828-8587-002	C	826-0007-476	B	828-3187-002	D
828-8587-002	D	826-0007-476	B	828-3187-002	E
828-8587-002	E	826-0007-476	B	828-3187-002	F
828-8587-002	E	826-0007-476	B	828-3187-002	G

REVISIONS			
LTR	DESCRIPTION	DATE	APVD
C	RL3049	11/30/2000	C.F.
D	RL4407	03/08/2001	KH
E	RL8325	05/08/2001	K.H.
F	RL9608	06/15/2001	CDP
G	RM3977	08/08/2001	CDP

PARTS LIST CONTINUED ON PAGE 2

1	80	705-2438-430	RESISTOR, 9.09 k	R139
1	79	705-2438-420	RESISTOR, 8.25 k	R99
1	78	705-2438-400	RESISTOR, 7.5 k	R3
5	77	705-2438-350	RESISTOR, 5.11 k	R48,711,724,740,743
9	76	705-2438-330	RESISTOR, 4.75 k	36 R49,51,386-388, 393-395,726
3	75	705-2438-310	RESISTOR, 4.32 k	R20,26,45
3	74	705-2438-180	RESISTOR, 2.21 k	R90,146,476
2	73	705-2438-110	RESISTOR, 1.5 k	R2,84
32	72	705-2438-050	RESISTOR, 1 k	R1,7,25,31,57,58, 60-63,67-69,71-73, 75-77,82,91,136, 249-252,254,255,293, 458,459,702
1	71	705-2437-980	RESISTOR, 825	R92
3	70	705-2437-860	RESISTOR, 475	R23,431,432
9	69	705-2437-480	RESISTOR, 100	32,33,34 R22,24,79,81,731,738
14	68	705-2437-300	RESISTOR, 51.1	800-802
92	67	705-2437-230	RESISTOR, 33.2	R86,88,93,111,112, 257-264,289
1	66	705-2437-050	RESISTOR, 10	R21,47,89,277-281, 286-288,292,294-296, 301-325,327,329,331, 336,340,357,360,364, 401-424,440-455,474, 537-539
3	65	705-2437-010	RESISTOR, 0	R690
1	64	672-0834-030	XFMR, FLYBACK	R70,244,429
1	63	668-0260-020	COIL, 40	T1
1	62	667-0001-010	XFMR, NG300	L2
1	61	653-4029-078	RIBBON CABLE ASSY	T4
1	60	634-1348-008	BUTTON, CABLE MOD	
2	59	372-7577-060	CONN,ELEC	J8,9
1	57	372-7577-010	CONN,ELEC	J10
2	56	357-7553-030	CONN,ELEC	J5,7
16	55	353-8135-030	DIODE, MMBD7000	CR10,15-29
1	54	353-6662-010	DIODE, MBRB1545CT	CR5
2	53	353-6650-010	DIODE, MBRB20200CT	CR3,14
1	52	353-3863-010	DIODE, LM4040CIM3	VR26
3	51	353-1552-010	DIODE, UPS5819	20 CR2,12,30

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

8	50	353-0611-040	DIODE, UPTB8	20	VR4-11
2	49	353-0397-130	DIODE, MMBZ6V8ALT1		VR30,31
7	48	353-0397-090	DIODE, UPTB8	20	VR12-18
1	47	352-9663-090	INSULATOR		
3	46	352-9114-010	TRANSISTOR, 2907		Q6,15,17
7	45	352-9113-010	TRANSISTOR, 2222A		Q3,9-14
1	44	352-1715-010	TRANSISTOR, IRFP260		Q1
1	43	352-1302-320	TRANSISTOR, IRF530S		Q20
1	42	351-9605-050	IC, AD6640		U3
1	41	351-9604-400	IC, AD8801AR		U47
1	40	351-9604-390	IC, X25330S8I-2.5		U45
1	39	351-9604-330	IC, AD1582BRT		U118
1	38	351-9604-240	IC, TPS3305-25D		U56
3	37	351-9604-110	IC, AD5322-BRM		U68,69,124
3	36	351-9604-070	IC, LTC1069-6		U55,125,126
1	35	351-9603-970	IC, AD6620		U1
1	34	351-3298-010	IC, TPS76301DBVT		U42
1	33	351-3222-010	IC, GT28F160C3BA90		U40
1	32	351-3111-050	IC, TMS320VC5416		U44
1	31	351-9603-520	IC, ADG406BP		U49
1	29	351-4104-010	IC, SNOOPY		U10
1	28	831-6205-001	IC, FPG4		U8
1	27	351-2660-010	IC, MAX146		U46
9	26	351-1278-030	IC, 2901		U21,23-25,52,60,71, 73,77
2	25	351-1278-020	IC, LM2903		U48,127
2	24	351-0985-010	IC, MAX490ESA		U2,43
1	23	351-0485-010	IC, MIC5015BM		U62
2	22	351-0475-010	IC, NC7SZ04M5		U120,121
3	21	351-0473-010	IC, NC7SZ32M5		U28,110,111
1	20	351-0414-020	IC, 1129		U61
4	19	350-4081-020	IC, NETWORK		U12,72,74,76
6	18	350-4081-010	IC, NETWORK		U95,96,98-101
1	17	343-0171-000	SCREW, .138-32X.50		
1	16	343-0135-000	SCREW, .112-40X0.38		
1	15	333-0368-000	NUT, SLFLKG, 0.138-32		
1	14	310-0779-050	WASHER, FLAT		
1	13	310-0779-030	WASHER, FLAT		
1	12	310-0279-000	WASHER, LOCK		
1	11	280-2745-040	LABEL, ESD	11	
1	10	277-0825-020	IC, 23.100 MHz		U50
6	8	241-0860-010	FILTER, 3300 pF	37	FL1-6
2	7	240-2933-130	COIL, 10		L6,7
1	6	214-0058-010	RELAY, DPDT		K1
2	5	183-1546-040	CAPACITOR, 15	19	C66,67
1	4	183-1546-030	CAPACITOR, 22	19	C97
5	3	183-1546-020	CAPACITOR, 150	19	C78,80,92-94
2	2	183-1546-010	CAPACITOR, 330	19	C82,91
1	1	826-0007-476	PLB		

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

ROCKWELL COLLINS, INC	
400 COLLINS ROAD NE, CEDAR RAPIDS, IOWA 52498	
PREP R. LOVE Aug 08 2001	CIRCUIT CARD ASSEMBLY, DSP/PS(A2) BOARD
CHK R. COLLETTE	
ENG K. HAMBY	
APVD	
SIZE D	CAGE CODE 4V792
DWG NO. 828-3187-002	REV LTR G
SCALE NONE	SHEET 1 OF 17

ROCKWELL PROPRIETARY INFORMATION.

DIGITAL DATA ONLY, NO MASTER TRACING.

NFD ☐ REL ☒ CR ☒ NO ☒ 1

41. ITEM 175 MAY EXCEED 33 PERCENT MAX OVERHANG REQUIREMENTS.

PARTS LIST CONTINUED ON PAGE 3

4	181	913-0865-460	CAPACITOR, 4700 pF	C26,27,162,163	1	153	843-7007-020	TRANSISTOR, IRFR110	Q2	2	111	705-3205-540	RESISTOR, 243 k	R83,171
2	180	913-0865-450	CAPACITOR, 3900 pF	C202,208	2	152	843-2002-020	TRANSISTOR, MMBT5551	Q4,5	4	110	705-3205-410	RESISTOR, 130 k	R15,129,147,234
11	179	913-0865-380	CAPACITOR, 1000 pF	C22,23,25,197,225,391,394,395,399,402,410	1	151	005-3167-010	ADHESIVE,RTV-3145	17	1	109	705-3205-190	RESISTOR, 43.2 k	R119
2	178	913-0865-300	CAPACITOR, 220 pF	C233,405	2	150	835-4509-010	IC, 74AC00	U17,19	2	108	705-3205-110	RESISTOR, 27.4 k	R290,356
1	177	913-0865-290	CAPACITOR, 180 pF	C28	5	149	835-0367-010	IC, 482	U7,9,13-15	14	107	705-3205-080	RESISTOR, 24.3 k	R435,436,550-554,557-559,578,581-583
22	176	913-0865-260	CAPACITOR, 100 pF	29	2	148	835-0355-050	IC, 1129	U4,6	4	106	705-3205-020	RESISTOR, 18.2 k	R35,231,470,727
1	175	913-3669-100	CAPACITOR, 62 pF	41	1	147	835-0253-030	IC, UCC2804	U5	13	105	705-3204-650	RESISTOR, 3.92 k	R142,543,544,548,549
26	174	913-0865-140	CAPACITOR, 10 pF	C12	1	146	835-0202-030	IC, 33079	U11	3	104	705-3204-400	RESISTOR, 1.3 k	562-565,586-589
110	173	913-0863-050	CAPACITOR, 0.1	C71,83,112-119,123,125-131,148-155	2	144	834-5019-090	CAPACITOR, 0.01	U16,58,59,108	1	103	705-3204-140	RESISTOR, 392	R233,390,397
				C5,6,8-10,15,20,24,30-34,36,39,41,46-54,69,72,109-111,121,122,124,132-141,143,144,146,147,156-161,164-173,175,177,178,183,195,200,201,206,207,217-221,226-229,231,235,267,300,319,324,330,358,362-373,375,390,396,397,407,408,416,424,425	1	143	834-5019-050	CAPACITOR, 0.1	C13	3	102	705-2439-980	RESISTOR, 150	R34
					3	142	834-5005-980	CAPACITOR, 1	C14,16,120,240-248,250,256,257,451,453	2	101	705-2439-380	RESISTOR, 1 M	R241,242,735
					17	141	834-5005-370	CAPACITOR, 0.1	32,33	1	100	705-2439-260	RESISTOR, 511 k	R220,227
					2	140	834-2008-220	CAPACITOR, 15	C251,252	2	99	705-2439-240	RESISTOR, 475 k	R222
					4	139	834-2008-190	CAPACITOR, 10	C74,254,452,454	1	98	705-2439-110	RESISTOR, 200 k	R221,223
					21	138	834-2008-140	CAPACITOR, 4.7	C3,70,75,76,79,87-90	2	97	705-2439-060	RESISTOR, 162 k	R145
					10	137	834-2008-070	CAPACITOR, 1	234,236,237,258-266	5	96	705-2439-050	RESISTOR, 150 k	R226,480
					1	136	834-2008-010	CAPACITOR, 0.1	C2,17,62-65,77,142,145,253	2	95	705-2438-980	RESISTOR, 110 k	R4,5,8,9,228
					3	135	834-1037-450	CAPACITOR, 220	C239	13	94	705-2438-950	RESISTOR, 100 k	29
					5	134	833-6726-300	RESISTOR, 2 k	C105,107,108	1	93	705-2438-910	RESISTOR, 82.5 k	R87,127,128,148-153,158,484,485,602
					2	133	833-6526-550	RESISTOR, 36.5	R126,218,219,375,376	3	92	705-2438-820	RESISTOR, 61.9 k	R471
					4	132	833-6526-340	RESISTOR, 22.1	R382,383	5	91	705-2438-810	RESISTOR, 56.2 k	R133,134,144
					4	131	833-6526-010	RESISTOR, 10	R718,719,732,763	2	89	705-2438-790	RESISTOR, 49.9 k	R64,78,97,100,478
					1	130	833-6083-170	RESISTOR, 0.35	R272,722,723,734	2	88	705-2438-780	RESISTOR, 47.5 k	R720,721
					4	129	833-6009-020	RESISTOR, 10	R494	8	87	705-2438-710	RESISTOR, 33.2 k	R165,166
					1	128	833-4006-020	RESISTOR, 15	R268-271					R6,18,19,53-55,66,102
					1	127	833-4004-820	RESISTOR, 5.11	R113	3	86	705-2438-680	RESISTOR, 30.1 k	R105,122,479
					2	126	833-4004-150	RESISTOR, 0.196	R143	2	85	705-2438-620	RESISTOR, 22.1 k	R65,291
					REF	125	828-8587-002	SCHEMATIC	R140,141	72	84	705-2438-590	RESISTOR, 20 k	R12-14,28,30,32,33,36,37,40,74,103,156,161,167-170,172-174,176-202,205-208,213,216,217,377-380,391,392,398,400,477,693,694,700,704,705,709,710,736
					2	124	763-0889-003	RIVET	18					R56,389,396
					3	123	705-3540-390	RESISTOR, 200	R27,159,160					R162
					12	122	705-3539-390	RESISTOR, 18.2	R273-276,282-285,297-300	3	83	705-2438-510	RESISTOR, 13 k	R10,29,46,85,95,96,98,101,104,106-110,114,115,120,121,123-125,130-132,154,155,157,203,204,232,235,240,256,265,266,326,328,330,332-335,337-339,341-355,381,463-465
					2	121	705-3539-140	RESISTOR, 10	R487,601	1	82	705-2438-490	RESISTOR, 12.1 k	
					2	120	705-3537-620	RESISTOR, 5.11 k	R16,17	64	81	705-2438-440	RESISTOR, 10 k	
					1	119	705-3538-250	RESISTOR, 28.7 k	R725					
					2	118	705-3537-170	RESISTOR, 1.5 k	R229,230					
					2	117	705-3535-730	RESISTOR, 475	R137,138					
					3	116	705-3535-550	RESISTOR, 301	R358,472,473					
					30	115	705-3535-270	RESISTOR, 12.1 k	R163,164,359,361-363,365-374,384,385,542,545-547,555,556,560,561,566,569-571					
					4	114	705-3535-200	RESISTOR, 1 k	R236-239					
					1	113	705-3535-060	RESISTOR, 100 k	R426					
					1	112	705-3535-030	RESISTOR, 20 k	R267					

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

ROCKWELL PROPRIETARY INFORMATION.

PREP. R. LOVE
CHK R. COLLETTE

ROCKWELL COLLINS, INC			
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
SIZE	DRAWING CODE	DWG NO.	REV LTR
D	4V792	828-3187-002	G
SCALE	NONE	SHEET	2

DIGITAL DATA ONLY, NO MASTER TRACING.

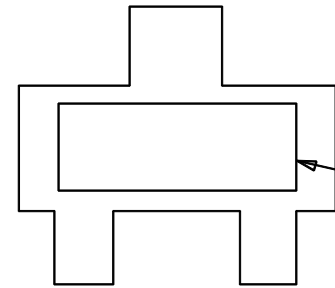
1	194	705-3540-270	RESISTOR, 150		R427
18	193	913-0865-620	CAPACITOR, 0.1	38	C270-287
2	192	705-2439-590	RESISTOR, 22.1		R245,246
AR	191	838-0002-010	ADHESIVE,UNISCT	35	
2	190	628-7676-016	INSULATOR	34,40	
2	189	628-7676-014	INSULATOR	32,33	
4	188	705-3535-020	RESISTOR, 10 k		R50,52,118,135
AR	187	014-1375-010	TAPE,INSULATION (FT.)	23	
8	186	913-0865-680	CAPACITOR, 1000 pF		C35,38,204,205,210, 211,224,232
1	185	913-0865-640	CAPACITOR, 470 pF		C99
23	183	913-0865-500	CAPACITOR, 0.01		C7,11,18,29,37,42-45 55-61,196,357,361, 401,403,440,441
2	182	913-0865-470	CAPACITOR, 5600 pF		C203,209

QTY	ITEM NO.	PART OR IDENT NO.	NOMENCLATURE OR DESCRIPTION	NOTES	REF DESIGNATORS
PARTS LIST (US CUSTOMARY MEASUREMENTS ONLY)					

ROCKWELL PROPRIETARY INFORMATION.		PREP. LOVE		SIZE D		CAGE CODE 4V792		DWG NO. 828-3187-002		REV LTR G	
		CHK R. COLLETTE		SCALE NONE				SHEET 3			

ROCKWELL COLLINS, INC
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498

DIGITAL DATA ONLY, NO MASTER TRACING.

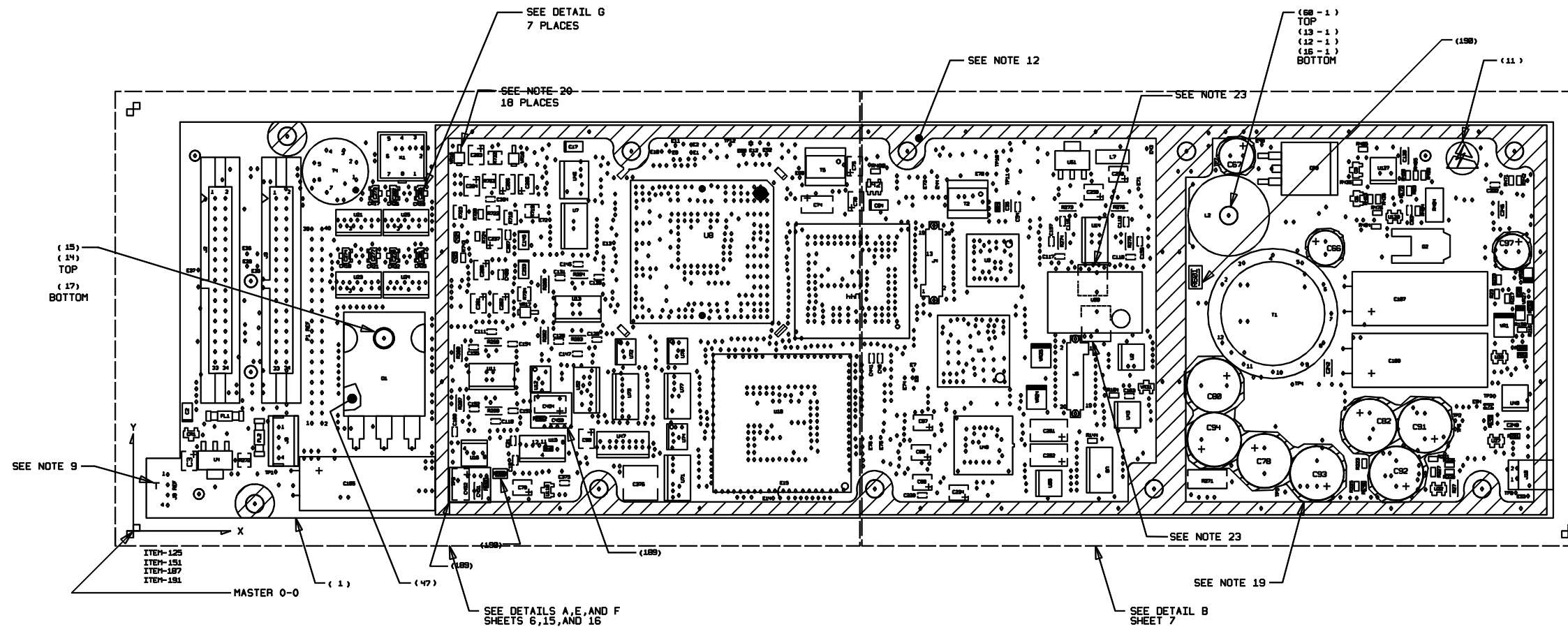


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22,23,24,25,26,27,28,29

REF C270,271,272,273,274,275,276,277,
278,279,280,281,282,283,284,285

SEE NOTE 38

DETAIL G
(FOR TOP SIDE COMPONENTS)

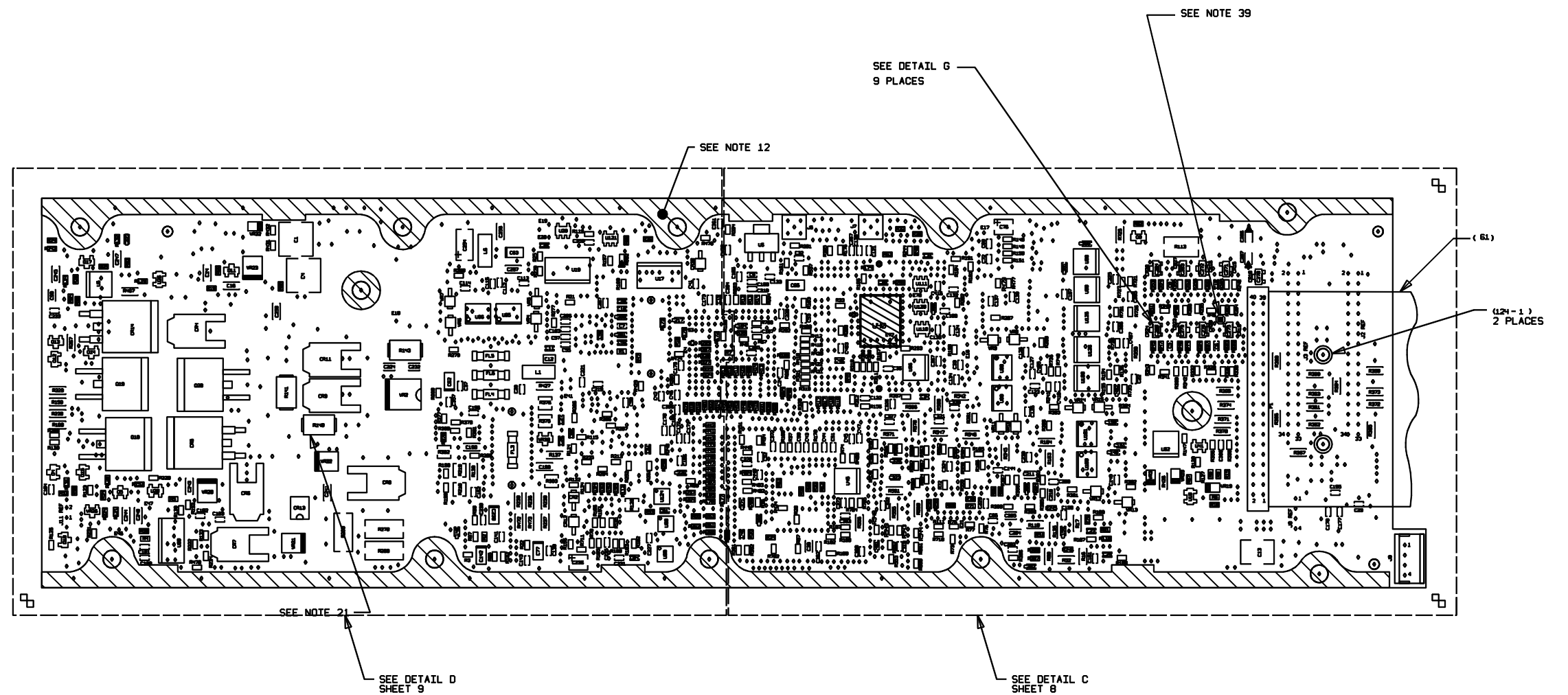


ROCKWELL COLLINS, INC
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498

PREP R. LOVE 08-Aug-2001	SIZE D CAGE CODE 4V792	DWG NO. 828-3187-002	REV LTR G
CHK R. COLLETTE	SCALE NONE	SHEET 4	

ROCKWELL PROPRIETARY INFORMATION.

DIGITAL DATA ONLY, NO MASTER TRACING.



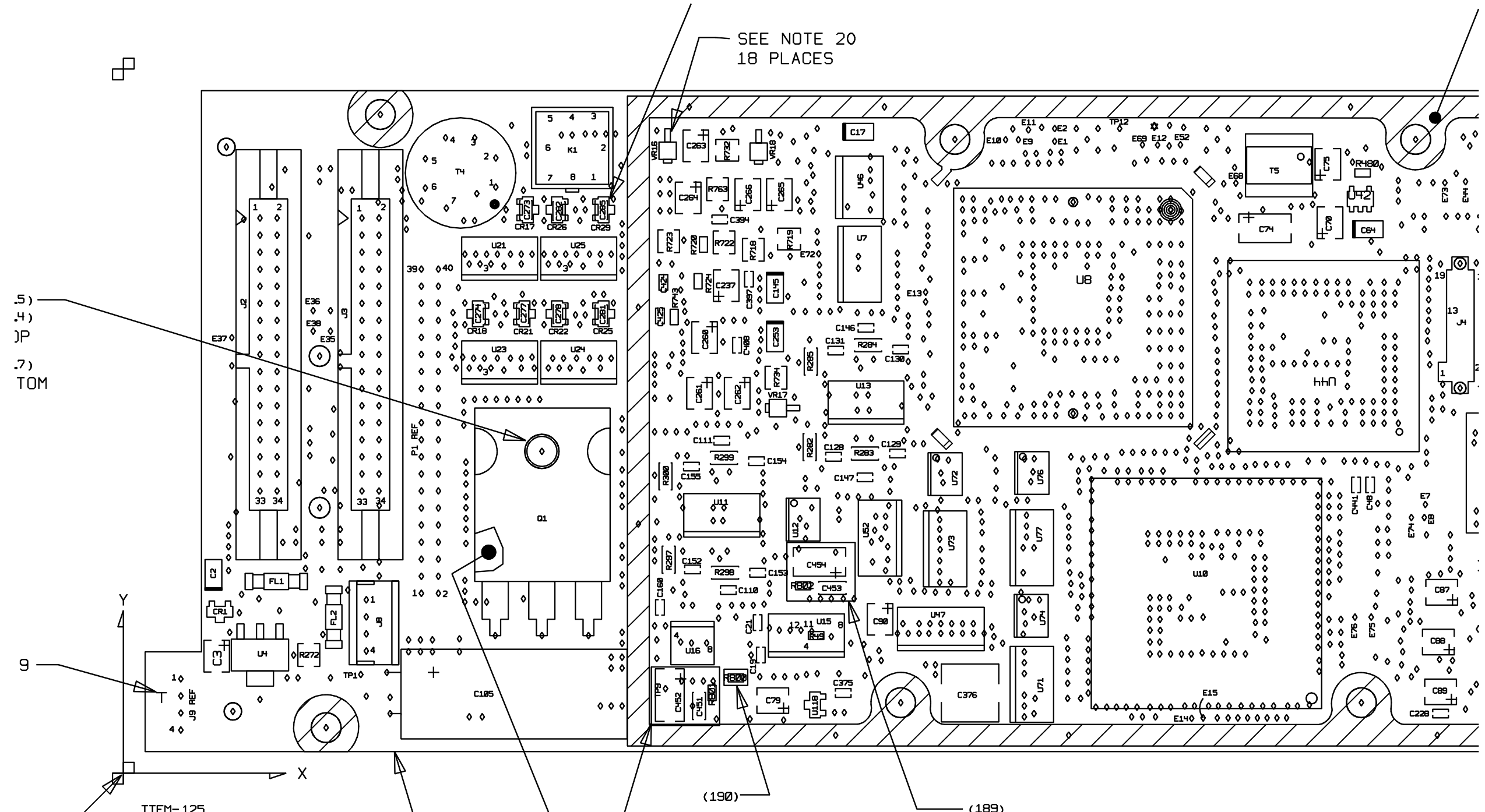
BOTTOM COMPONENTS

ROCKWELL PROPRIETARY INFORMATION.

PREP R. LOVE
08-Aug-2001
CHK R. COLLETTE

ROCKWELL COLLINS, INC			
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
SIZE	CAGE CODE	DWG NO.	REV
D	4V792	828-3187-002	LTR G
SCALE	NONE	SHEET	5

DIGITAL DATA ONLY, NO MASTER TRACING.



ROCKWELL PROPRIETARY INFORMATION.

PREP R. LOVE
08-Aug-2001
CHK R. COLLETTE

ROCKWELL COLLINS, INC			
400 COLLINS ROAD NE, CEDAR RAPIDS IOWA, 52498			
SIZE	CAGE CODE	DWG NO.	REV
D	4V792	828-3187-002	LTR G
SCALE	NONE	SHEET 6	

DIGITAL DATA ONLY, NO MASTER TRACING.

