

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Aeroflex / Tektronix / CDS 53B* at our website: *Click HERE*

53A-171 CONTROL CARD

SERVICE MANUAL

BFGoodrich
Aerospace

JcAIR Test Systems

WARRANTY

BFGoodrich Aerospace JcAir Test Systems (TSD) warrants its CDSbus products (hardware and firmware) against defects in materials and workmanship, and are warranted to meet the performance specifications as listed in the current catalog and/or data sheet for the specific product being warranted. This warranty applies for three (3) years following the date of shipment. TSD will, at its option, repair or replace, at no cost to the customer, products which prove to be defective during the warranty period, provided the defect or failure is not due to misuse or abuse of the product. The customer is responsible for shipment of the defective product to the TSD factory. Software products are supplied on a site license basis subject to the same performance warranty provisions; the materials and distribution provision applies to the distribution media only. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED, INCLUDING WARRANTY FOR FITNESS OF PURPOSE. TSD SHALL, IN NO CASE, BE LIABLE FOR CONSEQUENTIAL DAMAGES.

This document is proprietary to BFGoodrich Aerospace, JcAir Test Systems, and is not to be reproduced or otherwise disseminated without the written consent of BFGoodrich Aerospace, JcAir Test Systems.

400 New Century Parkway – New Century, Kansas – 66031
Telephone: (800) 237-2831 / (913) 764-2452 Fax: (913) 782-5104
http:\\www.jcair.com

5/20/98 8105-04-A
through
9206-06-F

JcAIR INC.

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
C1	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	13.00	AVX/KYOCERA	SR215E104MAA50VDCW
					KEMET-UNION CAR	C322C104M5U5CA
					SPRAGUE/VISHAY	1C20Z5U104M050B
C2	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C5	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C6	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C7	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C23	21528-20002	CAP FXD MICA 20PF 5% 500VDCW	EA	1.00	CORNELL-DUBILIE	CD6CD200J03
					CORNELL-DUBILIE	CD6ED200J03
C32	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C37	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	13.00	ARCO ELEC INC.	CM04FD101J03
					CORNELL-DUBILIE	CD10FD101J03
C41	21018-10008	CAP FXD ELECT 10UF 75% -10% 16VDCW	EA	1.00	CORNELL-DUBILIE	NLW10-16
					SPRAGUE/VISHAY	TE1155
C42	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C60	25028-20002	CAP VAR CER 2.3-20PF	EA	1.00	JOHANSON MFG CO	9308
C61	21528-10004	CAP FXD MICA 1000PF 5% 100VDCW	EA	1.00	ARCO ELEC INC.	DM15-102J
					CORNELL-DUBILIE	CD15FA102J03
C71	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C72	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C73	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C81	21018-15009	CAP FXD ELECT 150UF 75% -10% 16VDCW	EA	1.00	CORNELL-DUBILIE	NLW150-16
					MALLORY CAPACIT	TT16M150A
C87	20128-47006	CAP FXD CER .47UF 20% 50VDCW	EA	1.00	AVX/KYOCERA	SR301E474MAA
					AVX/KYOCERA	SR305E474MAA
					KEMET-UNION CAR	C322C474M5U5CA
					MALLORY CAPACIT	C303C474M5R5CA
C91	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C92	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C93	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C96	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C171	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C172	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C173	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C174	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C271	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C272	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C571	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C572	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C573	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	1.00	AVX/KYOCERA	SR201E103MAA
					KEMET-UNION CAR	C322C103M5U5CA
					SPRAGUE/VISHAY	1C25Z5U103M050B
C701	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	-		
C702	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
C801	21528-20003	CAP FXD MICA 200PF 5% 500VDCW	EA	2.00	ARCO ELEC INC.	DM15-201J
					CORNELL-DUBILIE	CD15FD201J03

JcAIR INC.

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
C802	20129-10007	CAP FXD CER .001MF 10% STABLE 100VDCW	EA	1.00	KEMET-UNION CAR	062K105X5X5CA
					KEMET-UNION CAR	CK06BX105K
C803	21528-20003	CAP FXD MICA 200PF 5% 500VDCW	EA	-		
C804	20128-10006	CAP FXD CER .1UF 20% 50VDCW	EA	-		
DS1	32000-00103	DIODE LED RED 50MA	EA	1.00	DIALIGHT	550-0103
					DIALIGHT	550-0406
					QUALITY TECHNOL	MV60538.MP7
DS10	32000-02003	DIODE LED RED W/RES	EA	20.00	DIALIGHT	547-2003
					EATON CORPORATI	134LIC
					QUALITY TECHNOL	MR5010.MP1
DS11	32000-02003	DIODE LED RED W/RES	EA	-		
DS12	32000-02003	DIODE LED RED W/RES	EA	-		
DS13	32000-02003	DIODE LED RED W/RES	EA	-		
DS110	32000-02003	DIODE LED RED W/RES	EA	-		
DS111	32000-02003	DIODE LED RED W/RES	EA	-		
DS112	32000-02003	DIODE LED RED W/RES	EA	-		
DS113	32000-02003	DIODE LED RED W/RES	EA	-		
DS114	32000-02003	DIODE LED RED W/RES	EA	-		
DS115	32000-02003	DIODE LED RED W/RES	EA	-		
DS116	32000-02003	DIODE LED RED W/RES	EA	-		
DS117	32000-02003	DIODE LED RED W/RES	EA	-		
DS210	32000-02003	DIODE LED RED W/RES	EA	-		
DS211	32000-02003	DIODE LED RED W/RES	EA	-		
DS212	32000-02003	DIODE LED RED W/RES	EA	-		
DS213	32000-02003	DIODE LED RED W/RES	EA	-		
DS214	32000-02003	DIODE LED RED W/RES	EA	-		
DS310	32000-02003	DIODE LED RED W/RES	EA	-		
DS311	32000-02003	DIODE LED RED W/RES	EA	-		
DS312	32000-02003	DIODE LED RED W/RES	EA	-		
E1	40401-00171	STAMP 53A-171 STYLE B BLACK	EA	1.00	STU PHILLIPS CO	53A-171
E2	40401-10009	STAMP CONTROL STYLE D BLACK	EA	1.00	STU PHILLIPS CO	CONTROL
E3	45050-03223	DCL LED 23POS -00458	EA	1.00	GOOD DECAL	45050-03223
E4	45050-03224	DCL LED 23POS BLK -00459	EA	1.00	GOOD DECAL	45050-03224
E5	42050-12671	SWITCH CAP WHITE FOR 8125A	EA	1.00	C & K COMPONENT	8018-1
F7	42202-52001	FUSE SUB-MIN 2AMP	EA	1.00	LITTLEFUSE INC.	251002
					SAN-O	SP5-2A
PCB1	41530-17100	P.C. BOARD VERSION 2S 9206-06-F-01	EA	1.00	MEGA CIRCUITS	41530-17100 REV 9206
					SAE CIRCUITS CO	41530-17100
					TEKTRONIX INC.	41530-17100
					UNICIRCUITS	41530-17100
R3	10117-10004	RES COMP 1K 1-4W 5%	EA	5.00	ALLEN-BRADLEY C	RC07GF102J
					ROHM CORP.	R25JE-1K-5%
R4	10117-20005	RES COMP 20K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF203J
					ROHM CORP.	R25JE-20K-5%
R7	10117-10004	RES COMP 1K 1-4W 5%	EA	-		

JcAIR INC.

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
R17	10117-27003	RES COMP 270 1-4W 5%	EA	3.00	ALLEN-BRADLEY C	RC07GF271J
					ROHM CORP.	R25JE-270-5%
R21	10117-33003	RES COMP 330 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF331J
					NIC	NIC-NCF25-330
					ROHM CORP.	R25JE-330-5%
R24	10117-10004	RES COMP 1K 1-4W 5%	EA	-		
R26	10117-10004	RES COMP 1K 1-4W 5%	EA	-		
R30	10117-10005	RES COMP 10K 1-4W 5%	EA	7.00	ALLEN-BRADLEY C	RC07GF103J
					ROHM CORP.	R25JE-10K-5%
R34	10117-22005	RES COMP 22K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF223J
					ROHM CORP.	R25JE-22K-5%
R36	10117-27003	RES COMP 270 1-4W 5%	EA	-		
R40	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R51	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R54	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R60	10117-22003	RES COMP 220 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF221J
					ROHM CORP.	R25JE-220-5%
R64	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R70	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R371	12006-22004	RES NETWORK SIP 2.2K 5% .7W 7-PKG	EA	3.00	CTS OF BERNE, I	750-81-R2.2K
R374	12006-22004	RES NETWORK SIP 2.2K 5% .7W 7-PKG	EA	-		
R471	12006-22004	RES NETWORK SIP 2.2K 5% .7W 7-PKG	EA	-		
R473	10117-27003	RES COMP 270 1-4W 5%	EA	-		
R701	10117-51003	RES COMP 510 1-4W 5%	EA	3.00	ALLEN-BRADLEY C	RC07GF511J
R702	10117-51003	RES COMP 510 1-4W 5%	EA	-		
R703	10117-51003	RES COMP 510 1-4W 5%	EA	-		
R704	10117-82003	RES COMP 820 1-4W 5%	EA	3.00	ALLEN-BRADLEY C	RC07GF821J
					ROHM CORP.	R25JE-820-5%
R705	10117-82003	RES COMP 820 1-4W 5%	EA	-		
R706	10117-82003	RES COMP 820 1-4W 5%	EA	-		
R771	12006-22003	RES NETWORK SIP 220 5% .7W 7-PKG	EA	2.00	CTS OF BERNE, I	750-81-R220
R774	12006-22003	RES NETWORK SIP 220 5% .7W 7-PKG	EA	-		
R801	10117-10006	RES COMP 100K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF104J
					ROHM CORP.	R25JE-100K-5%
R802	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R803	10117-10004	RES COMP 1K 1-4W 5%	EA	-		
S10	42050-12370	SWITCH ALT SPDT PC BRD MNT	EA	2.00	C & K COMPONENT	7101P4D9AB
S20	42050-12370	SWITCH ALT SPDT PC BRD MNT	EA	-		
S30	42050-12670	SWITCH MOM SPDT PC BRD MNT	EA	1.00	C & K COMPONENT	8125SD9ABE
S88	42050-10010	SWITCH 10POS.	EA	1.00	JcAIR	42050-10010
U2	73301-07404	IC TTL LS HEX INVERTER	EA	7.00	TEXAS INSTR. IN	74LS04
U3	78400-07413	IC TTL DUAL 4-INPUT NAND SCHMITT TRIGGER	EA	1.00	TEXAS INSTR. IN	7413
U4	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	5.00	NATIONAL SEMI /	DM7438
					TEXAS INSTR. IN	7438

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
U5	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	10.00	MOTOROLA SEMICO	SN74LS00
					NATIONAL SEMI /	DM74LS00
					TEXAS INSTR. IN	74LS00
U6	73301-07404	IC TTL LS HEX INVERTER	EA	-		
U7	71400-74177	IC TTL BINARY COUNTER LATCH 4-BIT	EA	1.00	TEXAS INSTR. IN	74177
U10	73000-07474	IC TTL DUAL FLIP-FLOP D-TYPE EDGE-TRIG	EA	1.00	NATIONAL SEMI /	DM7474
					TEXAS INSTR. IN	7474
U12	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U13	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	6.00	MOTOROLA SEMICO	SN74LS10
					NATIONAL SEMI /	DM74LS10
					TEXAS INSTR. IN	74LS10
U14	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	-		
U15	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U16	71251-07483	IC TTL LS BINARY FULL ADDER 4-BIT	EA	1.00	MOTOROLA SEMICO	SN74LS83
					NATIONAL SEMI /	DM74LS83
					TEXAS INSTR. IN	74LS83
U17	79000-09311	IC TTL 1-OF-16 DIGITAL DECODER	EA	2.00	TEXAS INSTR. IN	74154
					TEXAS INSTR. IN	9311
U22	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U23	76901-07402	IC TTL LS QUAD 2-INPUT NOR GATE	EA	4.00	MOTOROLA SEMICO	SN74LS02
					NATIONAL SEMI /	DM74LS02
					TEXAS INSTR. IN	74LS02
U24	74200-09602	IC TTL DUAL RETRIGGERABLE MONOSTABLE	EA	2.00	FAIRCHILD	DM9602N
					NATIONAL SEMI /	DM8602N
					NATIONAL SEMI /	DM9602
U25	73002-07474	IC TTL S DUAL FLIP-FLOP D-TYPE EDGE TRIG	EA	1.00	NATIONAL SEMI /	DM74S74
					TEXAS INSTR. IN	74S74
U26	71200-74161	IC TTL COUNTER LS SYNCH 4-BIT	EA	1.00	MOTOROLA SEMICO	SN74LS161A
					NATIONAL SEMI /	DM74LS161A
					TEXAS INSTR. IN	74LS161A
U30	76600-07400	IC TTL QUAD 2-INPUT NAND GATE	EA	1.00	NATIONAL SEMI /	DM7400
					TEXAS INSTR. IN	7400
U32	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U33	76500-07420	IC TTL LS DUAL 4-INPUT NAND GATE	EA	2.00	MOTOROLA SEMICO	SN74LS20
					NATIONAL SEMI /	DM74LS20
					TEXAS INSTR. IN	74LS20
U34	78402-07414	IC TTL LS HEX SCHMITT INVERTING BUFFER	EA	4.00	MOTOROLA SEMICO	SN74LS14
					NATIONAL SEMI /	DM74LS14
					TEXAS INSTR. IN	74LS14
U35	79911-74157	IC TTL LS QUAD 2-TO-1 LINE DATA SEL-MUX	EA	2.00	NATIONAL SEMI /	DM74LS157
					TEXAS INSTR. IN	74LS157
U36	73301-07404	IC TTL LS HEX INVERTER	EA	-		
U40	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	-		
U41	78402-07414	IC TTL LS HEX SCHMITT INVERTING BUFFER	EA	-		
U42	76901-07402	IC TTL LS QUAD 2-INPUT NOR GATE	EA	-		
U43	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	-		
U44	78402-07414	IC TTL LS HEX SCHMITT INVERTING BUFFER	EA	-		
U45	79911-74157	IC TTL LS QUAD 2-TO-1 LINE DATA SEL-MUX	EA	-		

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

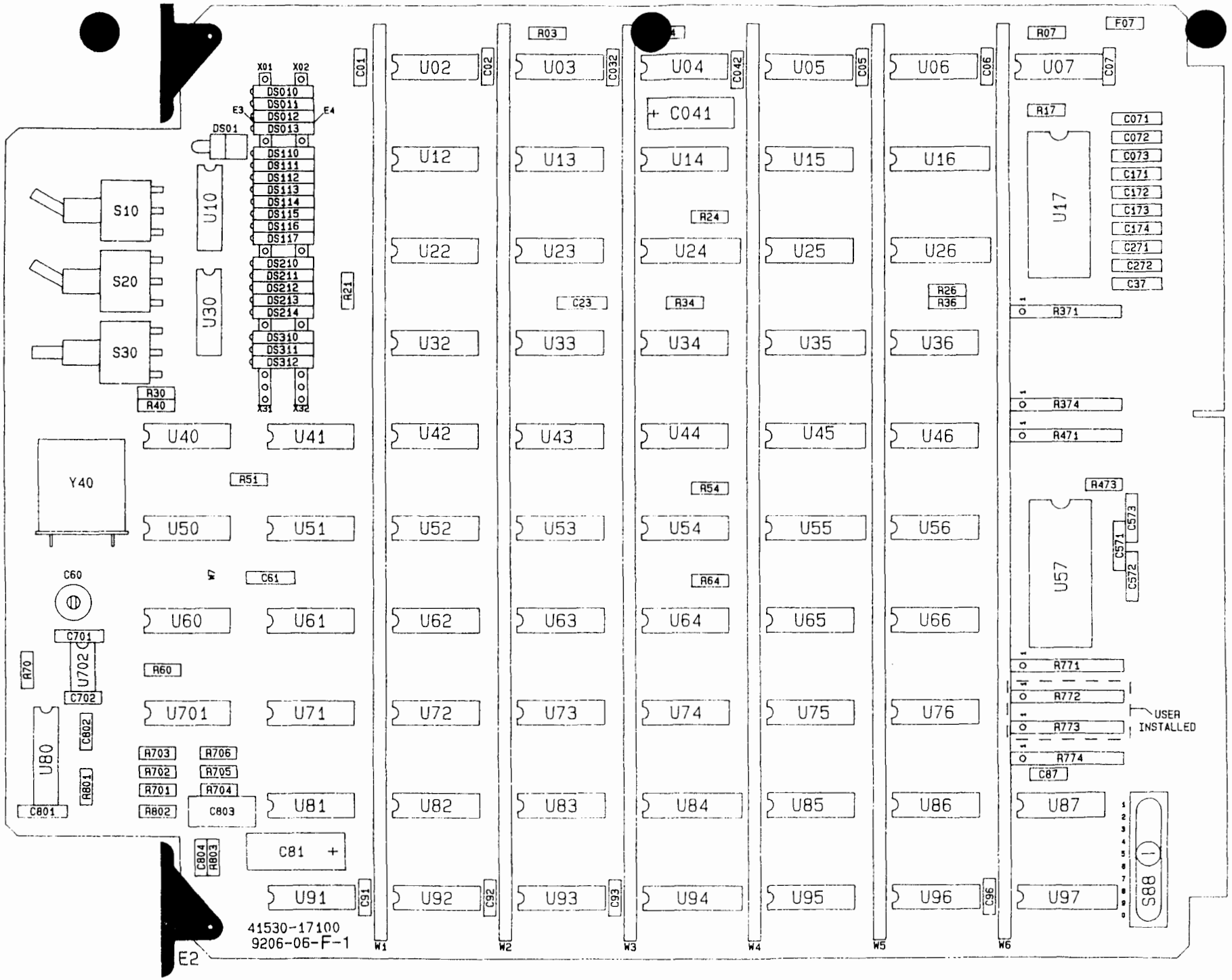
ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
U46	73301-07404	IC TTL LS HEX INVERTER	EA	-		
U50	73000-07473	IC TTL DUAL FLIP-FLOP J-K MASTER-SLAVE	EA	3.00	NATIONAL SEMI /	DM7473
					TEXAS INSTR. IN	7473
U51	73301-07404	IC TTL LS HEX INVERTER	EA	-		
U52	73000-07473	IC TTL DUAL FLIP-FLOP J-K MASTER-SLAVE	EA	-		
U53	73000-07473	IC TTL DUAL FLIP-FLOP J-K MASTER-SLAVE	EA	-		
U54	79500-74180	IC TTL 8-BIT ODD-EVEN PARITY GEN-CHECKER	EA	2.00	NATIONAL SEMI /	CD74180
					TEXAS INSTR. IN	74180
U55	73600-07475	IC TTL QUAD BISTABLE LATCH	EA	1.00	NATIONAL SEMI /	DM7475
					TEXAS INSTR. IN	7475
U56	79500-74180	IC TTL 8-BIT ODD-EVEN PARITY GEN-CHECKER	EA	-		
U57	79000-09311	IC TTL 1-OF-16 DIGITAL DECODER	EA	-		
U60	71200-07490	IC TTL DECADE COUNTER	EA	1.00	NATIONAL SEMI /	DM7490
					TEXAS INSTR. IN	7490
U61	73001-07473	IC TTL LS DUAL FLIP-FLOP J-K MASTER-SLAV	EA	1.00	MOTOROLA SEMICO	MC74LS73AN
					NATIONAL SEMI /	DM74LS73
					TEXAS INSTR. IN	74LS73
U62	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U63	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	-		
U64	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	-		
U65	77815-07432	IC TTL LS QUAD 2-INPUT OR GATE	EA	3.00	MOTOROLA SEMICO	SN74LS32
					NATIONAL SEMI /	DM74LS32
					TEXAS INSTR. IN	74LS32
U66	78402-07414	IC TTL LS HEX SCHMITT INVERTING BUFFER	EA	-		
U71	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U72	76901-07402	IC TTL LS QUAD 2-INPUT NOR GATE	EA	-		
U73	76901-07402	IC TTL LS QUAD 2-INPUT NOR GATE	EA	-		
U74	76500-07430	IC TTL LS 8-INPUT NAND GATE	EA	1.00	MOTOROLA SEMICO	SN74LS30
					NATIONAL SEMI /	DM74LS30
					TEXAS INSTR. IN	74LS30
U75	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	-		
U76	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	-		
U80	74200-09602	IC TTL DUAL RETRIGGERABLE MONOSTABLE	EA	-		
U81	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U82	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	-		
U83	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U84	75401-07496	IC LS 5-BIT SERIAL-PARALLEL SHIFT REGIST	EA	2.00	TEXAS INSTR. IN	74LS96
U85	77815-07432	IC TTL LS QUAD 2-INPUT OR GATE	EA	-		
U86	77815-07432	IC TTL LS QUAD 2-INPUT OR GATE	EA	-		
U87	78401-07414	IC TTL HEX SCHMITT INVERTING BUFFER	EA	1.00	NATIONAL SEMI /	DM7414
					TEXAS INSTR. IN	7414
U91	76500-07400	IC TTL LS QUAD 2-INPUT NAND GATE	EA	-		
U92	76500-07410	IC TTL LS TRIPLE 3-INPUT NAND GATE	EA	-		
U93	76500-07420	IC TTL LS DUAL 4-INPUT NAND GATE	EA	-		
U94	75401-07496	IC LS 5-BIT SERIAL-PARALLEL SHIFT REGIST	EA	-		
U95	73301-07404	IC TTL LS HEX INVERTER	EA	-		
U96	73301-07404	IC TTL LS HEX INVERTER	EA	-		

JcAIR INC.

NAME: CONTROL BD 9206-06-F-01 ASSY NO: 53A-171

REVISION: 01 DATE: 03/12/96

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
U97	79000-07442	IC TTL BCD-TO-DECIMAL DECODER	EA	1.00	NATIONAL SEMI /	DM7442
					TEXAS INSTR. IN	7442
U701	73300-07406	IC TTL HEX INVERTER BUFFER-DRIVER	EA	1.00	NATIONAL SEMI /	DM7406
					TEXAS INSTR. IN	7406
U702	79605-07209	IC TTL OSCILLATOR	EA	1.00	INTERSIL INC.(H	ICM7209IPA
W1	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	6.00	CIRCUIT COMPONE	M-833 9.75.3
					ELDRE	6102-6-10.3
W2	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	-		
W3	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	-		
W4	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	-		
W5	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	-		
W6	93517-75397	BUS BAR P.75 F.3 X9 L7.2 1	EA	-		
X1	45010-14100	SOCKET SIP 14 PIN	EA	2.00	CIRCUIT ASSEMBL	CAS-14VSC-12B
					STANFORD APPLIE	CSA3000-14BC
X2	45010-14100	SOCKET SIP 14 PIN	EA	-		
X31	45001-12100	CONNECTOR SIP 12 PIN	EA	2.00	CIRCUIT ASSEMBL	CAS-12VSC-12B
					STANFORD APPLIE	CSA3000-12BC
X32	45001-12100	CONNECTOR SIP 12 PIN	EA	-		
Y40	89500-20016	CRYSTAL OSC 2.000MHZ 50PPM 20PF LONG LEA	EA	1.00	CRYSTEK	13948
					M-TRON INDS. IN	MP-2 2.000
REF0	53A-171	CONTROL BD 9206-06-F-01	EA	-		


X01
X02
DS010
DS011
DS012
DS013
E3
E4
DS01
DS110
DS111
DS112
DS113
DS114
DS115
DS116
DS117
DS210
DS211
DS212
DS213
DS214
DS310
DS311
DS312
X31
X32
S10
S20
S30
U10
U30
R21
R30
R40
R03
C01
C02
C032
C042
C005
C06
C07
F07
R07
U02
U03
U04
U05
U06
U07
C041
R17
C071
C072
C073
C171
C172
C173
C174
C271
C272
C37
U17
U12
U13
U14
U15
U16
R24
U22
U23
U24
U25
U26
R26
R36
C23
R34
R371
U32
U33
U34
U35
U36
R374
R471
U40
U41
U42
U43
U44
U45
U46
Y40
R51
R54
R473
C573
C571
C572
U50
U51
U52
U53
U54
U55
U56
U57
C60
W7
C61
R64
U60
U61
U62
U63
U64
U65
U66
C701
U702
C702
A70
R60
R771
R772
R773
R774
USER
INSTALLED
U701
U71
U72
U73
U74
U75
U76
U80
C802
C801
R801
R703
R702
R701
R802
R706
R705
R704
C803
C87
U81
U82
U83
U84
U85
U86
U87
C804
R803
C81
S88
U91
U92
U93
U94
U95
U96
U97
C91
C92
C93
C96
W1
W2
W3
W4
W5
W6
41530-17100
9206-06-F-1
E2

53A-743 CHAINING CABLE

SERVICE MANUAL

BFGoodrich
Aerospace

JcAIR Test Systems

WARRANTY

BFGoodrich Aerospace JcAir Test Systems (TSD) warrants its CDSbus products (hardware and firmware) against defects in materials and workmanship, and are warranted to meet the performance specifications as listed in the current catalog and/or data sheet for the specific product being warranted. This warranty applies for three (3) years following the date of shipment. TSD will, at its option, repair or replace, at no cost to the customer, products which prove to be defective during the warranty period, provided the defect or failure is not due to misuse or abuse of the product. The customer is responsible for shipment of the defective product to the TSD factory. Software products are supplied on a site license basis subject to the same performance warranty provisions; the materials and distribution provision applies to the distribution media only. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED, INCLUDING WARRANTY FOR FITNESS OF PURPOSE. TSD SHALL, IN NO CASE, BE LIABLE FOR CONSEQUENTIAL DAMAGES.

This document is proprietary to BFGoodrich Aerospace, JcAir Test Systems, and is not to be reproduced or otherwise disseminated without the written consent of BFGoodrich Aerospace, JcAir Test Systems.

400 New Century Parkway – New Century, Kansas – 66031
Telephone: (800) 237-2831 / (913) 764-2452 Fax: (913) 782-5104
http:\\www.jcair.com

7/8/98

JcAIR INC.

NAME: CABLE CHAINING

ASSY NO: 53A-743

REVISION: 01

DATE: 08/18/97

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
1	53A-780	HOODED CONNECTOR -02018	EA	2.00	JcAIR	53A-780
2	40430-00015	CABLE TIE FINISHED CABLE	EA	3.00	DENNISON	TY244M
					PANDUIT CORP.	PLT4S-M
3	46000-00011	CABLE 24 TWST PAIR 28AWG W-OVERALL SHLD	FT	17.00	NATIONAL WIRE &	S10-1959
4	90000-21004	WIRE HOOK-UP 22AWG GRN STRANDED PVC	FT	0.40	ALPHA WIRE CORP	3251-4
					BELDEN CORP.	9983-5
					STORM PRODUCTS	1061-22730-5
REFO	53A-743	CABLE CHAINING	EA	-		

53A-743 DATA CABLE

SIGNAL NAME	CABLE J1 and J2	WIRE
	1	Black
	A*	White
	2	Brown
	B*	White
	3	Red
	C*	White
	4	Orange
	D*	White
	5	Yellow
	E*	White
	6	Green
	F*	White
	7	Blue
	H*	White
	8	Violet
	J*	White
	9	Gray
	K*	White
	10	Brown
	L*	Black
	11	Red
	M*	Black
	12	Orange
	N*	Black
	13	Yellow
	P*	Black
	14	Green
	R*	Black
	15	Blue
	S*	Black
	16	Violet
	T*	Black
	17	Gray
	U*	Black
	18	Red
	V*	Brown
	19	Orange
	W*	Brown
	20	Yellow
	X*	Brown
	21	Green
	Y*	Brown
	22	Blue
	Z*	Brown
	23	Violet
	AA*	Brown
	24	Shield
	BB	Gray & Brown

*Note: typically used as ground of twisted pair.

Both ends of this cable are the same. Connect one end to the 53A-123 and the other end to the 53A-145, or 146.

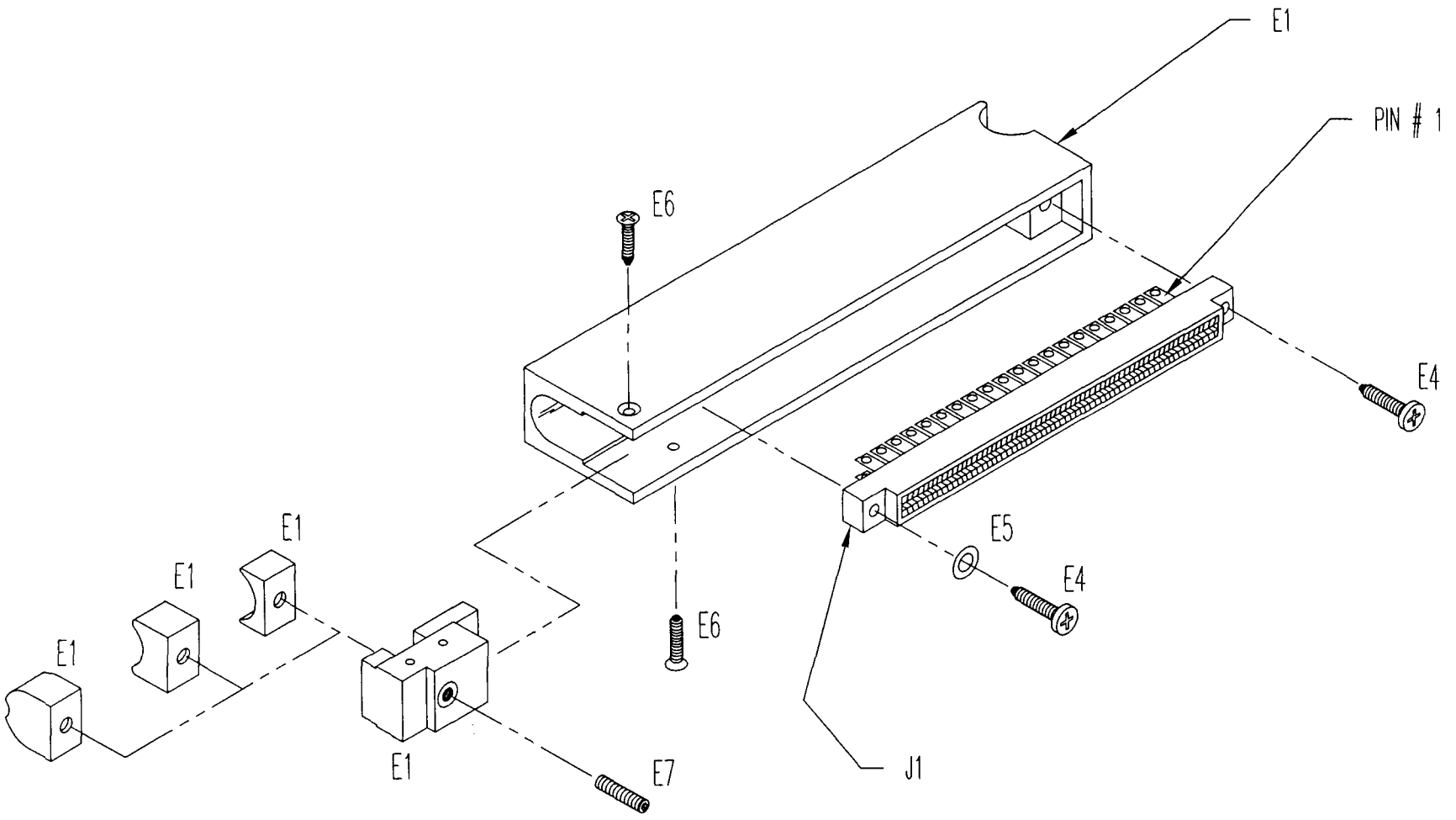
JcAIR INC.

NAME: HOODED CONNECTOR -02018 ASSY NO: 53A-780

REVISION: 00 DATE: 02/20/95

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
E1	40420-00001	CONNECTOR HOOD ASSEMBLY 00678 8908	EA	1.00	ENG SOL TESCO	40420-00001
E4	92302-00412	SCREW PHIL PAN 4X.5 PLASTITE ZINC	EA	2.00	A & I BOLT & NU	4X.5 POS PAN PLAST ZP
					CSID/INTEGRATED	4X.5 POS PAN PLAST ZP
E5	92300-07164	WASHER NYLON NUMBER 4 THICK	EA	1.00	BOKERS, INC.	WASHER .120ID .250OD .062T NYL
E6	92302-00438	SCREW PHIL FLHD 4X.375 TYPE AB SELFTAP 8	EA	2.00	A & I BOLT & NU	4X.375 PH FLTHD
					CSID/INTEGRATED	4X.375 PH FLTHD
E7	92306-76632	SCREW SET 6-32 X .5 CUP PNT ZINC	EA	1.00	A & I BOLT & NU	6-32X.5 SET SCREW
					CSID/INTEGRATED	6-32X.5 SET SCREW
J1	45001-48125	CONNECTOR 48 PIN 1	EA	1.00	SULLINS ELECS C	RSM24DREH-S342
REF1	00000-02018	HOODED CONNECTOR 53A-78X 9633	EA	-		

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



53A-78X	53A-78X
NEXT ASS'Y	TOP BILL
UNIT 53A-78X	

DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
DECIMALS: .XX ±.01 .XXX ±.005 FRACTIONS: ± 1/64 ANGLES: ± 1/2°

MATERIAL: –

FINISH: –

BFGOODRICH AEROSPACE PROPRIETARY INFORMATION

APPROVALS	DATE
DRAWN BRENDA	4/96
ENG.	
ISSUED	

FILE NAME 02018.DWG

BFGoodrich Aerospace
JcAIR Test Systems
400 NEW CENTURY PARKWAY
NEW CENTURY, KS 66031-0009 USA
PHONE (913) 764-2452
FAX (913) 782-5104

53A-78X HOODED CONNECTOR

SIZE	CAGE NO.	DWG. NO.	REV.
A	41364	00000-02018	9633

SHEET 1 of 1

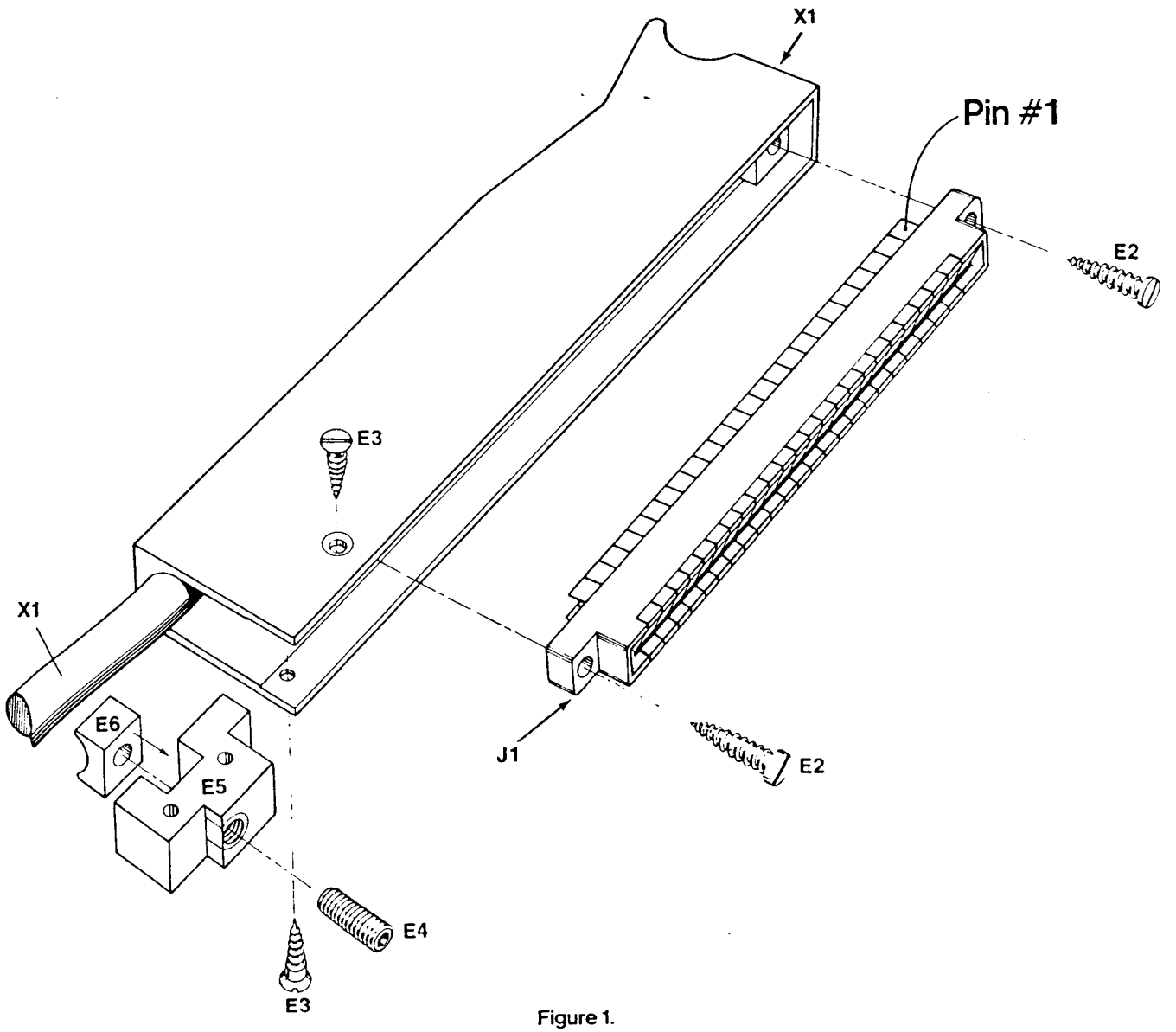
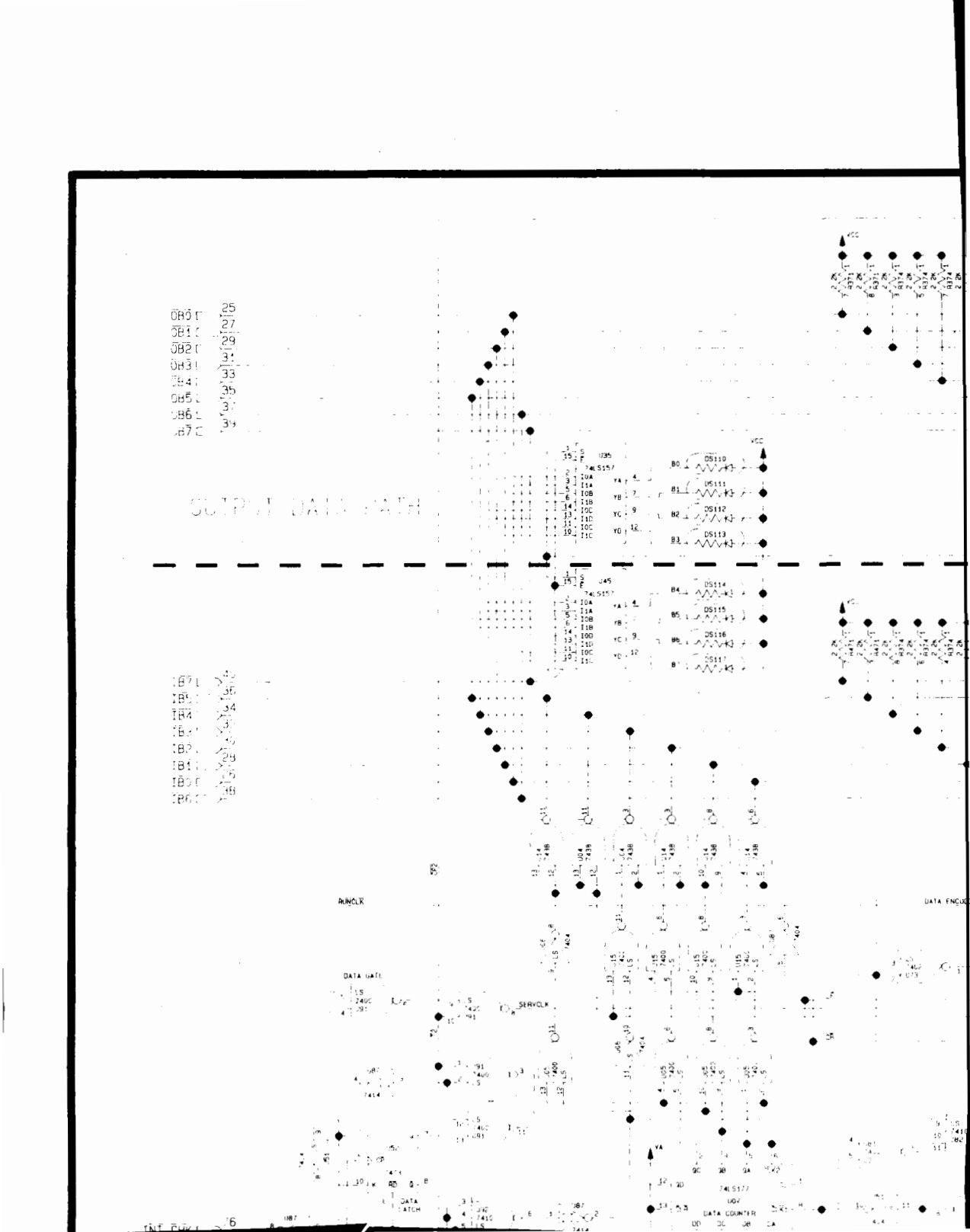
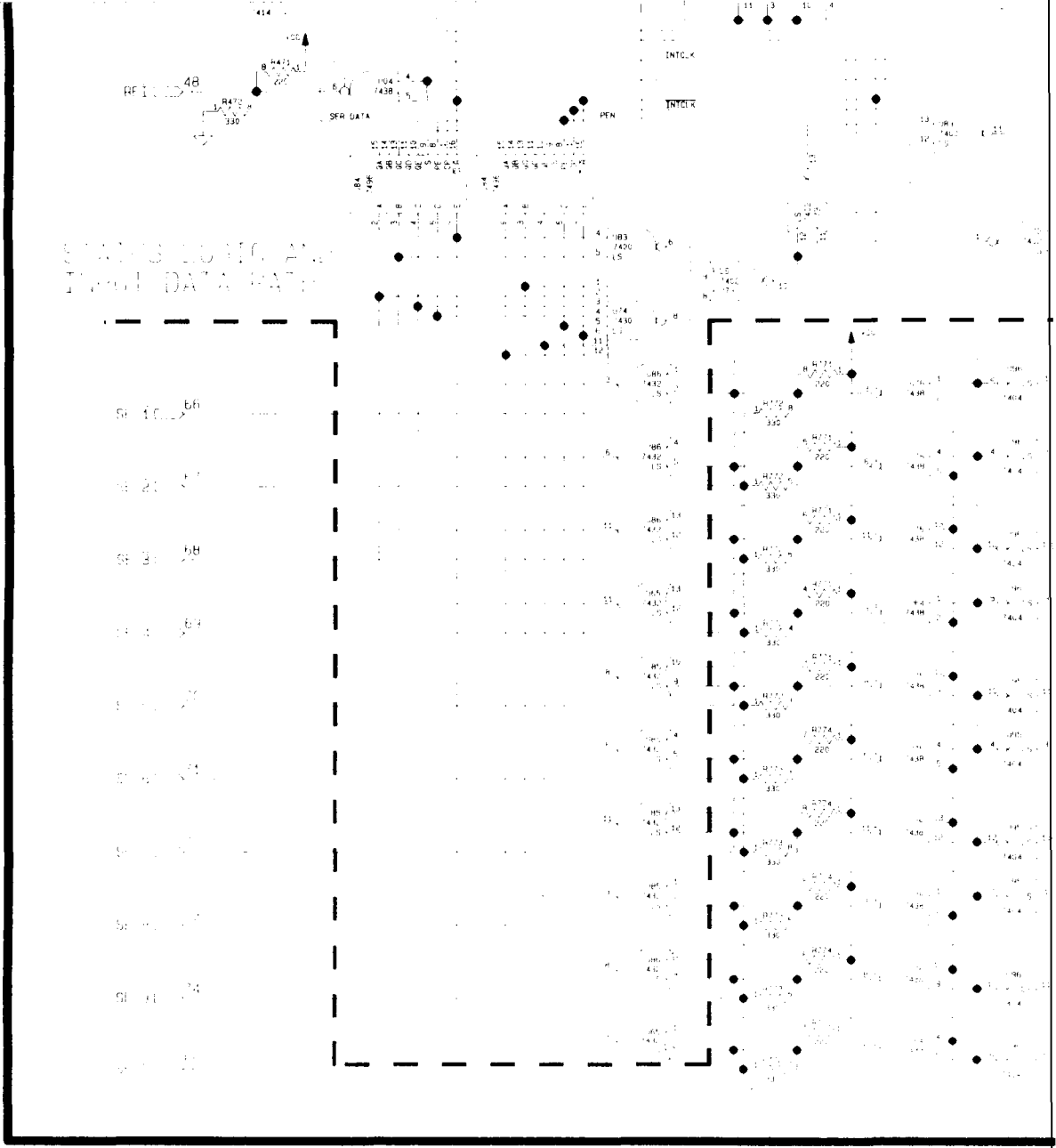
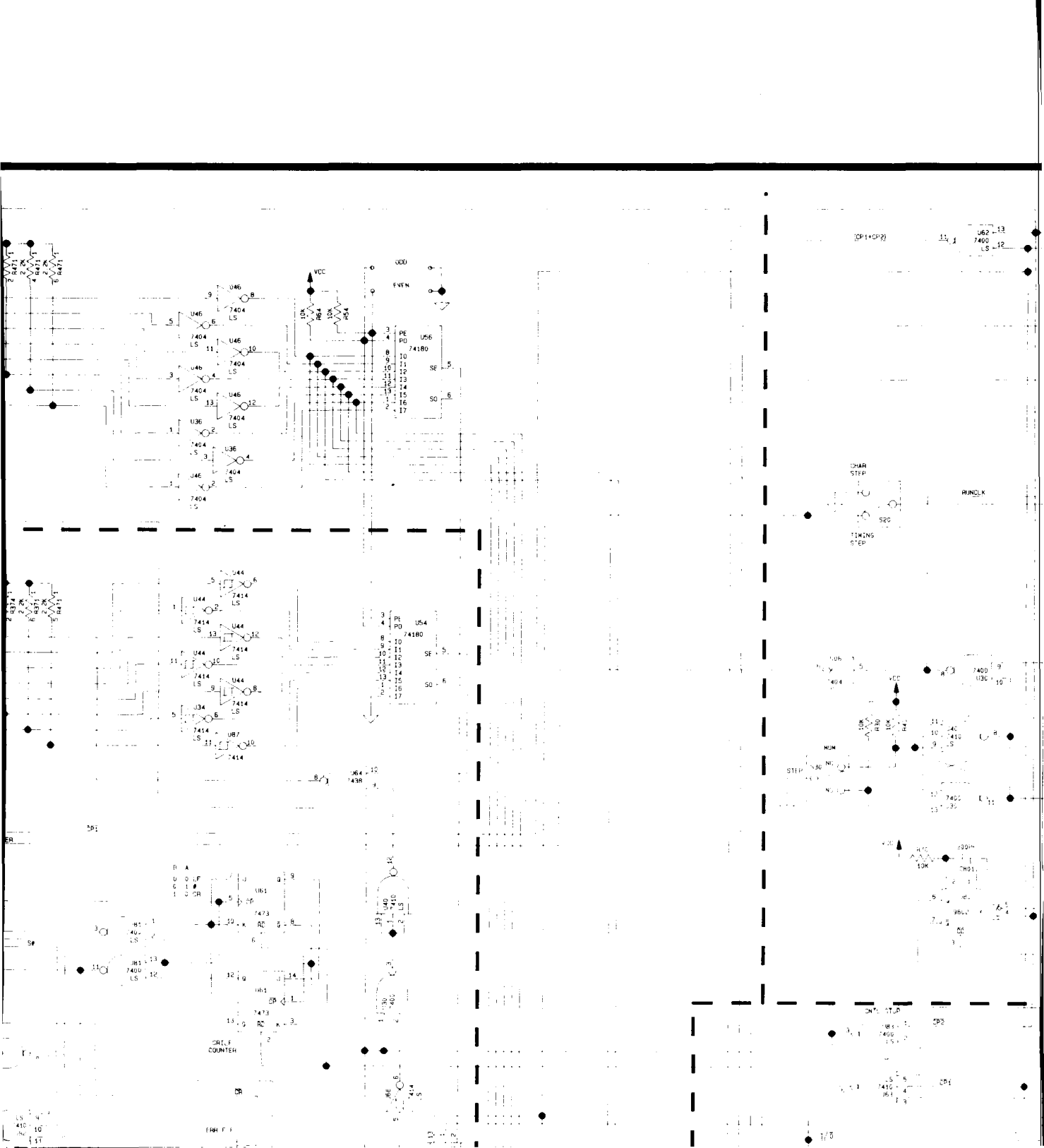


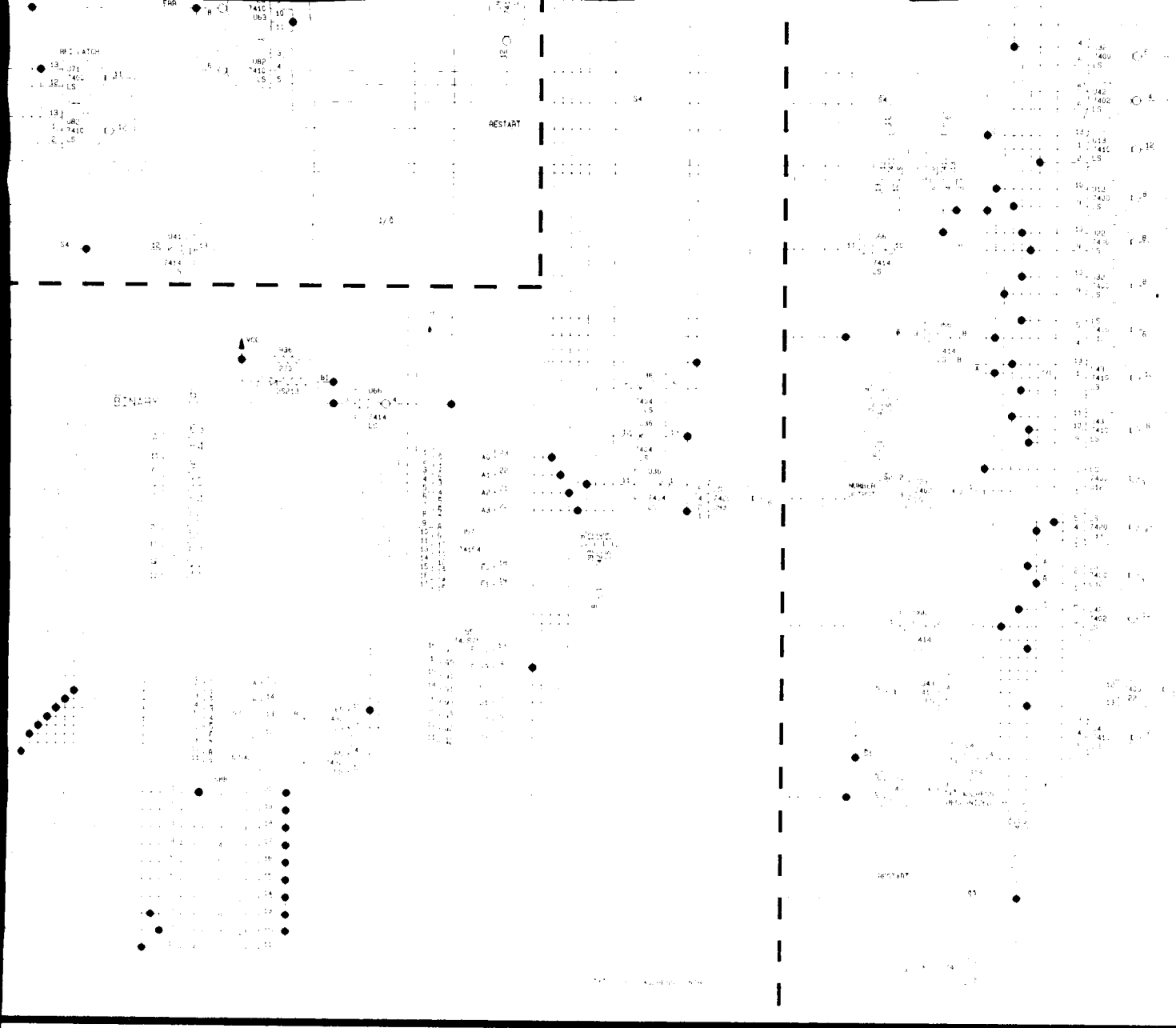
Figure 1.

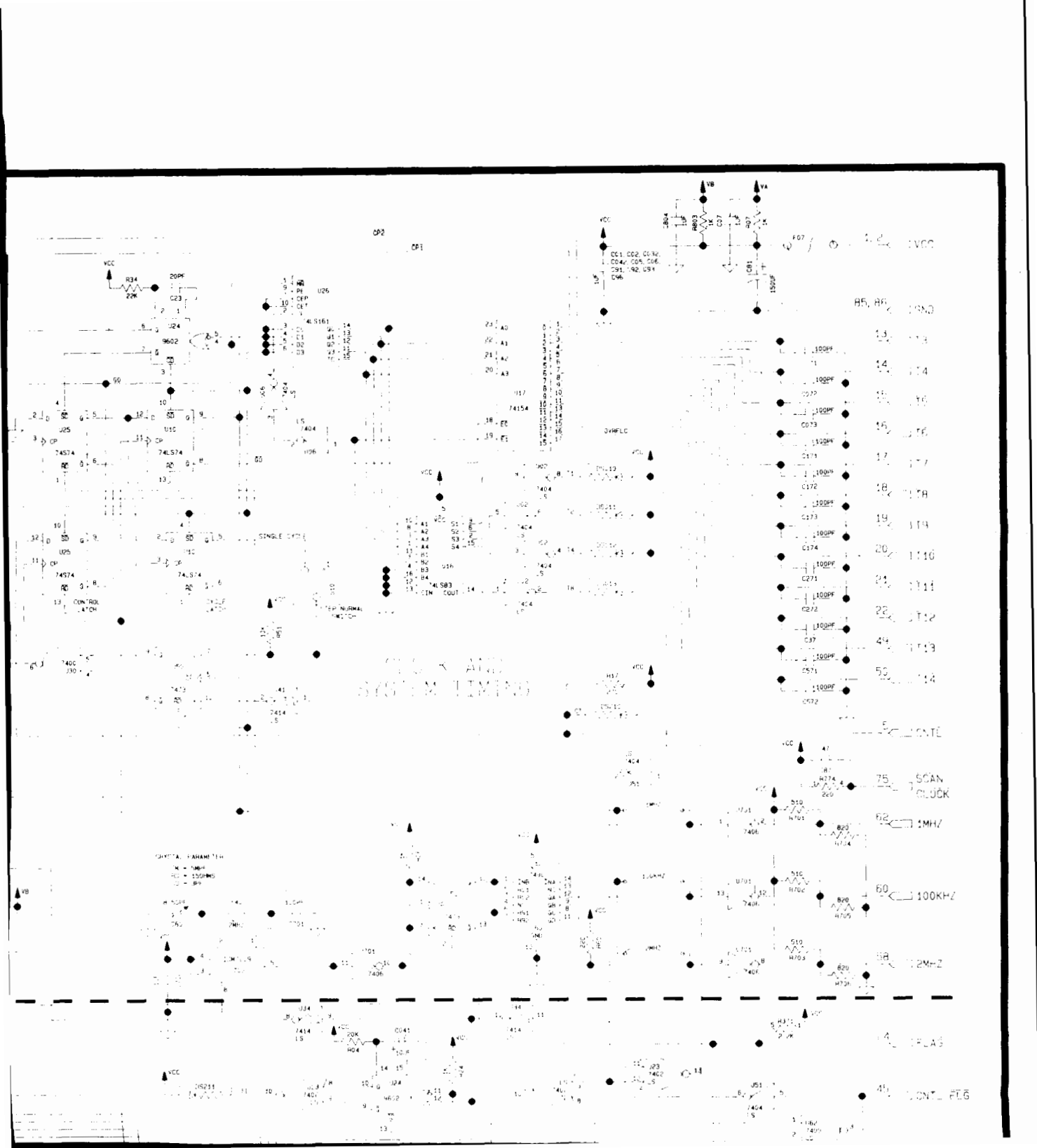
53A-743 DATA CABLE

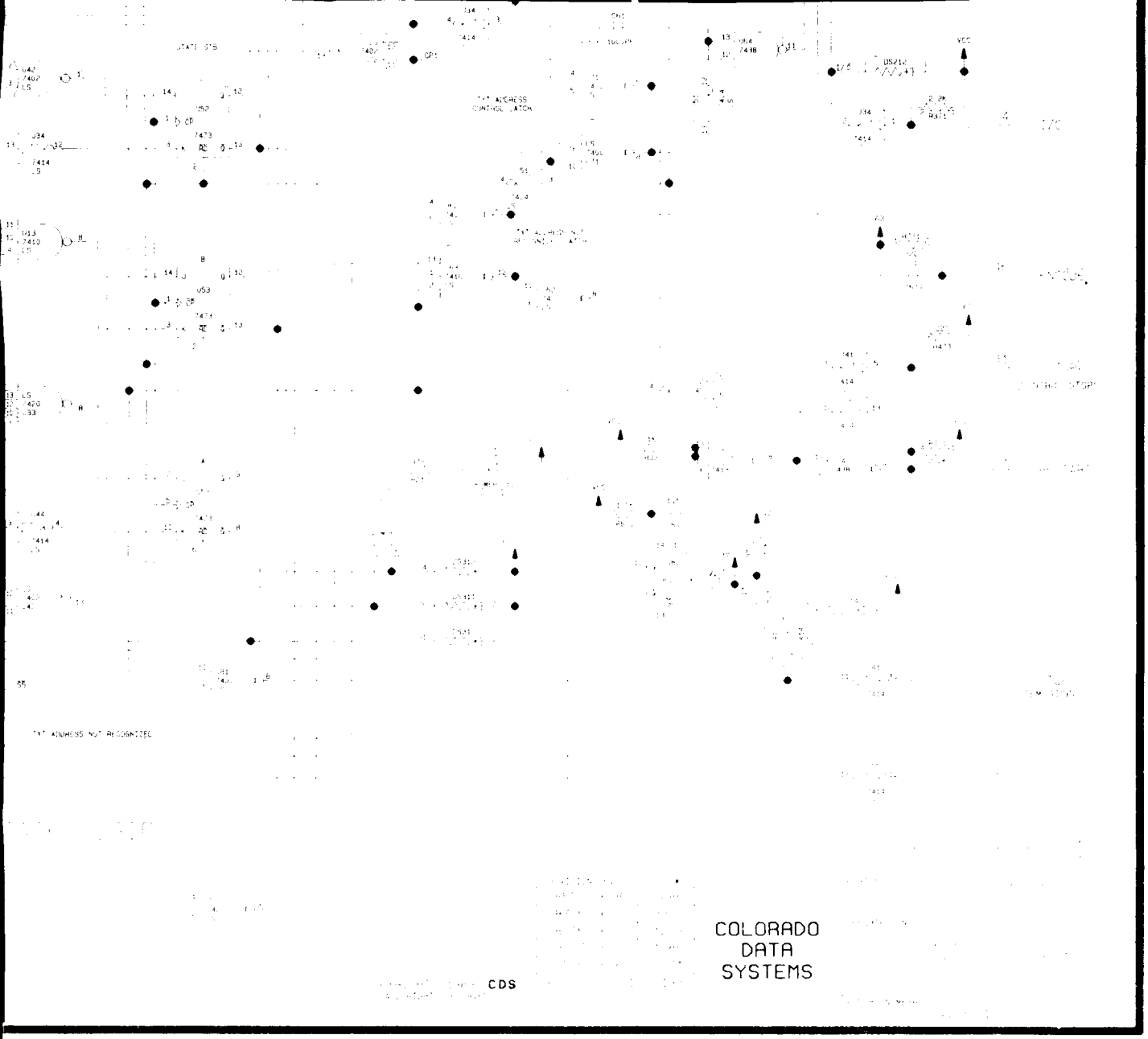

OUTPUT DATA PATH
INPUT DATA PATH
DATA GATE
DATA LATCH
DATA COUNTER
DATA ENCOD
RUNCLR
SERVCLR
INT ENA
74LS157
74LS177
DS110
DS111
DS112
DS113
DS114
DS115
DS116
DS117


INTCLK
INTCLR
SER DATA
PEN


VCC
ODD
EVEN
U56
74180
PE
PO
SE
SO
U54
U46
U36
U44
U87
U61
U62
7400
7404
7414
7473
CHAR STEP
TIMING STEP
RUNCLK
STEP
RUN
CNTR STOP
CNTR COUNTER
CR1,F
CR
(CP1+CP2)


RESTART
RESTART




COLORADO
DATA
SYSTEMS
CDS

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP