

SHEET INDEX

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RECORD OF CHANGES

DWG ISS	PREV FURN	STD	MFR DISC	SEE NOTE

NOTES:

- GROUND RETURN.
- UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS. CAPACITANCE VALUES ARE IN MICROFARADS. VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.
- BATTERY AND GROUND TERMINALS FOR INTEGRATED CIRCUITS:

IC CODE	BAT TERM	GRD TERM
25LS2521	20	10
54S32	14	7
54S38	14	7
LS00	14	7
LS240	20	10
LS244	20	10
LS138	16	8
54LS280	14	7
93S48	16	8
54LS373	20	10
2I288, L5	14	7
DS7837J	16	8

- BATTERY AND GROUND TERMINALS FOR THIS CIRCUIT PACK ARE AS FOLLOWS:

FUNCTION	TERMINALS
+5	000, 001, 002, 100, 101, 102
GRD	024, 027, 032, 043, 044, 045, 055, 056, 122, 123, 126, 127, 128, 129, 130, 131, 132, 143, 144, 145, 156

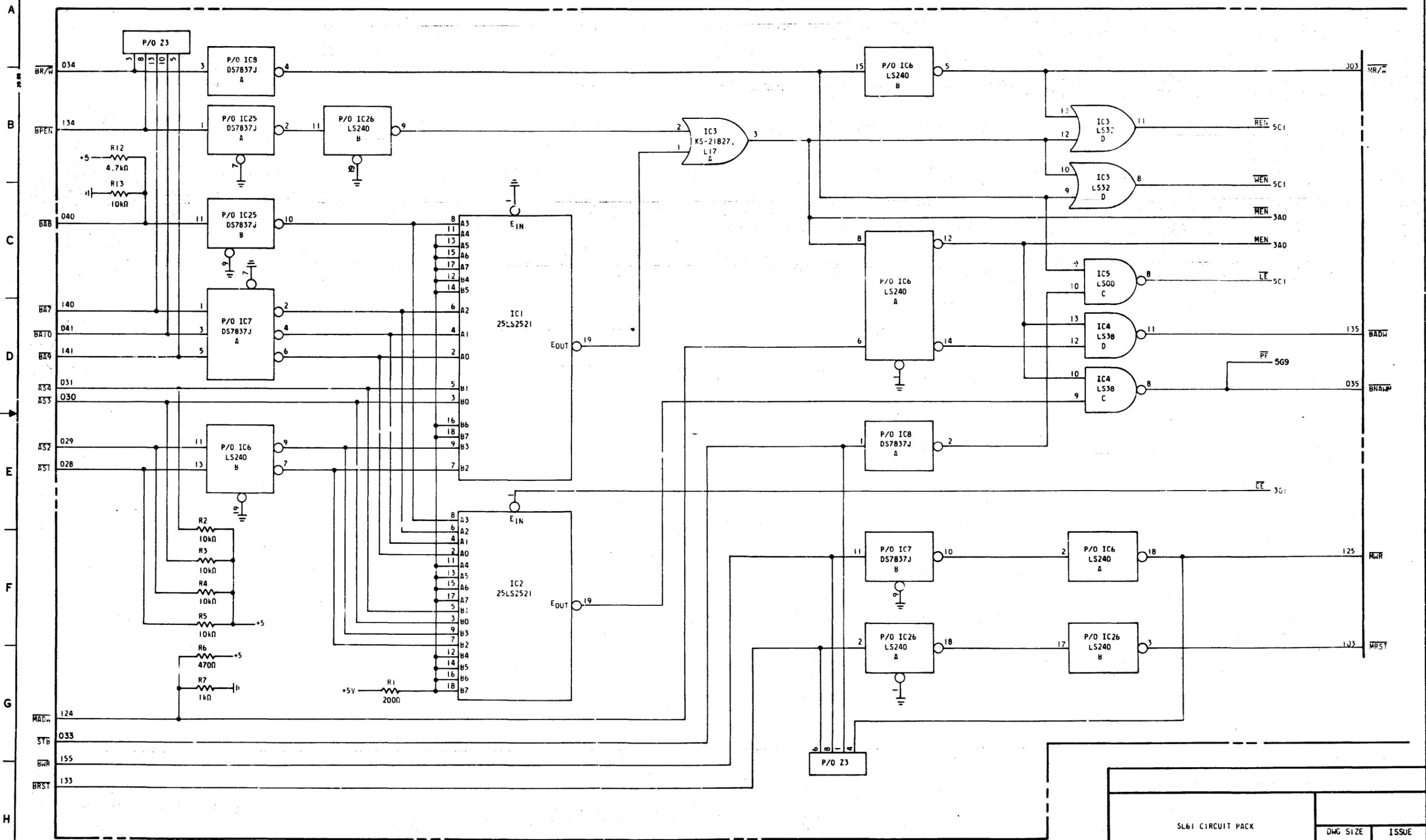
- ALL RESISTORS ARE KS-20616, L1A.
- A "B" PREFIX INDICATES THAT A SIGNAL APPEARS ONLY ON THE I/O BUS.
- AN "M" PREFIX INDICATES THAT A SIGNAL APPEARS ONLY ON THE DAS (DISTRIBUTE AND SCAN) BUS.

SYSTEM USED ON	DESIGN CONTROL
COMMON	CB

SYMBOL

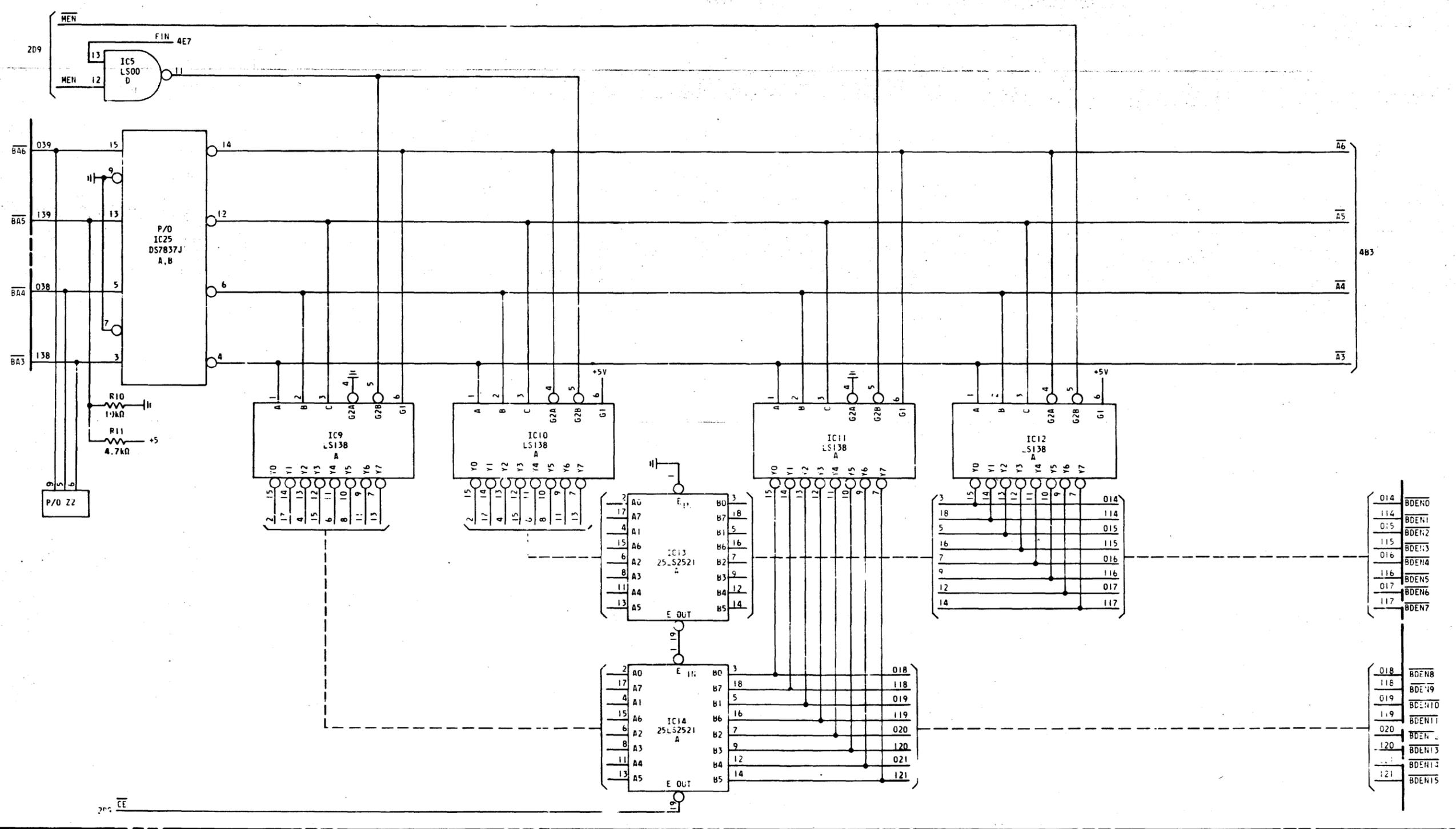
036	BAG	037	BAT	038	BA3	039	BA5	040	BA7	041	BA9	042	BBRE	043	BAPT1	044	BAP20	045	B00	046	B01	047	B02	048	B03	049	B04	050	B05	051	B06	052	B07	053	B08	054	B09	055	B10	056	B11	057	B12	058	B13	059	B14	060	B15	061	B16	062	B17	063	B18	064	B19	065	B20	066	B21	067	B22	068	B23	069	B24	070	B25	071	B26	072	B27	073	B28	074	B29	075	B30	076	B31	077	B32	078	B33	079	B34	080	B35	081	B36	082	B37	083	B38	084	B39	085	B40	086	B41	087	B42	088	B43	089	B44	090	B45	091	B46	092	B47	093	B48	094	B49	095	B50	096	B51	097	B52	098	B53	099	B54	100	B55	101	B56	102	B57	103	B58	104	B59	105	B60	106	B61	107	B62	108	B63	109	B64	110	B65	111	B66	112	B67	113	B68	114	B69	115	B70	116	B71	117	B72	118	B73	119	B74	120	B75	121	B76	122	B77	123	B78	124	B79	125	B80	126	B81	127	B82	128	B83	129	B84	130	B85	131	B86	132	B87	133	B88	134	B89	135	B90	136	B91	137	B92	138	B93	139	B94	140	B95	141	B96	142	B97	143	B98	144	B99	145	B000	146	B001	147	B002	148	B003	149	B004	150	B005	151	B006	152	B007	153	B008	154	B009	155	B010	156	B011	157	B012	158	B013	159	B014	160	B015	161	B016	162	B017	163	B018	164	B019	165	B020	166	B021	167	B022	168	B023	169	B024	170	B025	171	B026	172	B027	173	B028	174	B029	175	B030	176	B031	177	B032	178	B033	179	B034	180	B035	181	B036	182	B037	183	B038	184	B039	185	B040	186	B041	187	B042	188	B043	189	B044	190	B045	191	B046	192	B047	193	B048	194	B049	195	B050	196	B051	197	B052	198	B053	199	B054	200	B055	201	B056	202	B057	203	B058	204	B059	205	B060	206	B061	207	B062	208	B063	209	B064	210	B065	211	B066	212	B067	213	B068	214	B069	215	B070	216	B071	217	B072	218	B073	219	B074	220	B075	221	B076	222	B077	223	B078	224	B079	225	B080	226	B081	227	B082	228	B083	229	B084	230	B085	231	B086	232	B087	233	B088	234	B089	235	B090	236	B091	237	B092	238	B093	239	B094	240	B095	241	B096	242	B097	243	B098	244	B099	245	B100	246	B101	247	B102	248	B103	249	B104	250	B105	251	B106	252	B107	253	B108	254	B109	255	B110	256	B111	257	B112	258	B113	259	B114	260	B115	261	B116	262	B117	263	B118	264	B119	265	B120	266	B121	267	B122	268	B123	269	B124	270	B125	271	B126	272	B127	273	B128	274	B129	275	B130	276	B131	277	B132	278	B133	279	B134	280	B135	281	B136	282	B137	283	B138	284	B139	285	B140	286	B141	287	B142	288	B143	289	B144	290	B145	291	B146	292	B147	293	B148	294	B149	295	B150	296	B151	297	B152	298	B153	299	B154	300	B155	301	B156	302	B157	303	B158	304	B159	305	B160	306	B161	307	B162	308	B163	309	B164	310	B165	311	B166	312	B167	313	B168	314	B169	315	B170	316	B171	317	B172	318	B173	319	B174	320	B175	321	B176	322	B177	323	B178	324	B179	325	B180	326	B181	327	B182	328	B183	329	B184	330	B185	331	B186	332	B187	333	B188	334	B189	335	B190	336	B191	337	B192	338	B193	339	B194	340	B195	341	B196	342	B197	343	B198	344	B199	345	B200	346	B201	347	B202	348	B203	349	B204	350	B205	351	B206	352	B207	353	B208	354	B209	355	B210	356	B211	357	B212	358	B213	359	B214	360	B215	361	B216	362	B217	363	B218	364	B219	365	B220	366	B221	367	B222	368	B223	369	B224	370	B225	371	B226	372	B227	373	B228	374	B229	375	B230	376	B231	377	B232	378	B233	379	B234	380	B235	381	B236	382	B237	383	B238	384	B239	385	B240	386	B241	387	B242	388	B243	389	B244	390	B245	391	B246	392	B247	393	B248	394	B249	395	B250	396	B251	397	B252	398	B253	399	B254	400	B255	401	B256	402	B257	403	B258	404	B259	405	B260	406	B261	407	B262	408	B263	409	B264	410	B265	411	B266	412	B267	413	B268	414	B269	415	B270	416	B271	417	B272	418	B273	419	B274	420	B275	421	B276	422	B277	423	B278	424	B279	425	B280	426	B281	427	B282	428	B283	429	B284	430	B285	431	B286	432	B287	433	B288	434	B289	435	B290	436	B291	437	B292	438	B293	439	B294	440	B295	441	B296	442	B297	443	B298	444	B299	445	B300	446	B301	447	B302	448	B303	449	B304	450	B305	451	B306	452	B307	453	B308	454	B309	455	B310	456	B311	457	B312	458	B313	459	B314	460	B315	461	B316	462	B317	463	B318	464	B319	465	B320	466	B321	467	B322	468	B323	469	B324	470	B325	471	B326	472	B327	473	B328	474	B329	475	B330	476	B331	477	B332	478	B333	479	B334	480	B335	481	B336	482	B337	483	B338	484	B339	485	B340	486	B341	487	B342	488	B343	489	B344	490	B345	491	B346	492	B347	493	B348	494	B349	495	B350	496	B351	497	B352	498	B353	499	B354	500	B355	501	B356	502	B357	503	B358	504	B359	505	B360	506	B361	507	B362	508	B363	509	B364	510	B365	511	B366	512	B367	513	B368	514	B369	515	B370	516	B371	517	B372	518	B373	519	B374	520	B375	521	B376	522	B377	523	B378	524	B379	525	B380	526	B381	527	B382	528	B383	529	B384	530	B385	531	B386	532	B387	533	B388	534	B389	535	B390	536	B391	537	B392	538	B393	539	B394	540	B395	541	B396	542	B397	543	B398	544	B399	545	B400	546	B401	547	B402	548	B403	549	B404	550	B405	551	B406	552	B407	553	B408	554	B409	555	B410	556	B411	557	B412	558	B413	559	B414	560	B415	561	B416	562	B417	563	B418	564	B419	565	B420	566	B421	567	B422	568	B423	569	B424	570	B425	571	B426	572	B427	573	B428	574	B429	575	B430	576	B431	577	B432	578	B433	579	B434	580	B435	581	B436	582	B437	583	B438	584	B439	585	B440	586	B441	587	B442	588	B443	589	B444	590	B445	591	B446	592	B447	593	B448	594	B449	595	B450	596	B451	597	B452	598	B453	599	B454	600	B455	601	B456	602	B457	603	B458	604	B459	605	B460	606	B461	607	B462	608	B463	609	B464	610	B465	611	B466	612	B467	613	B468	614	B469	615	B470	616	B471	617	B472	618	B473	619	B474	620	B475	621	B476	622	B477	623	B478	624	B479	625
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PART OF CPS SL61
MATRIX INTERFACE



SL61 CIRCUIT PACK		DWG SIZE	ISSUE
		65	2
BELL LABORATORIES	CPS-SL61	SHEET 2	

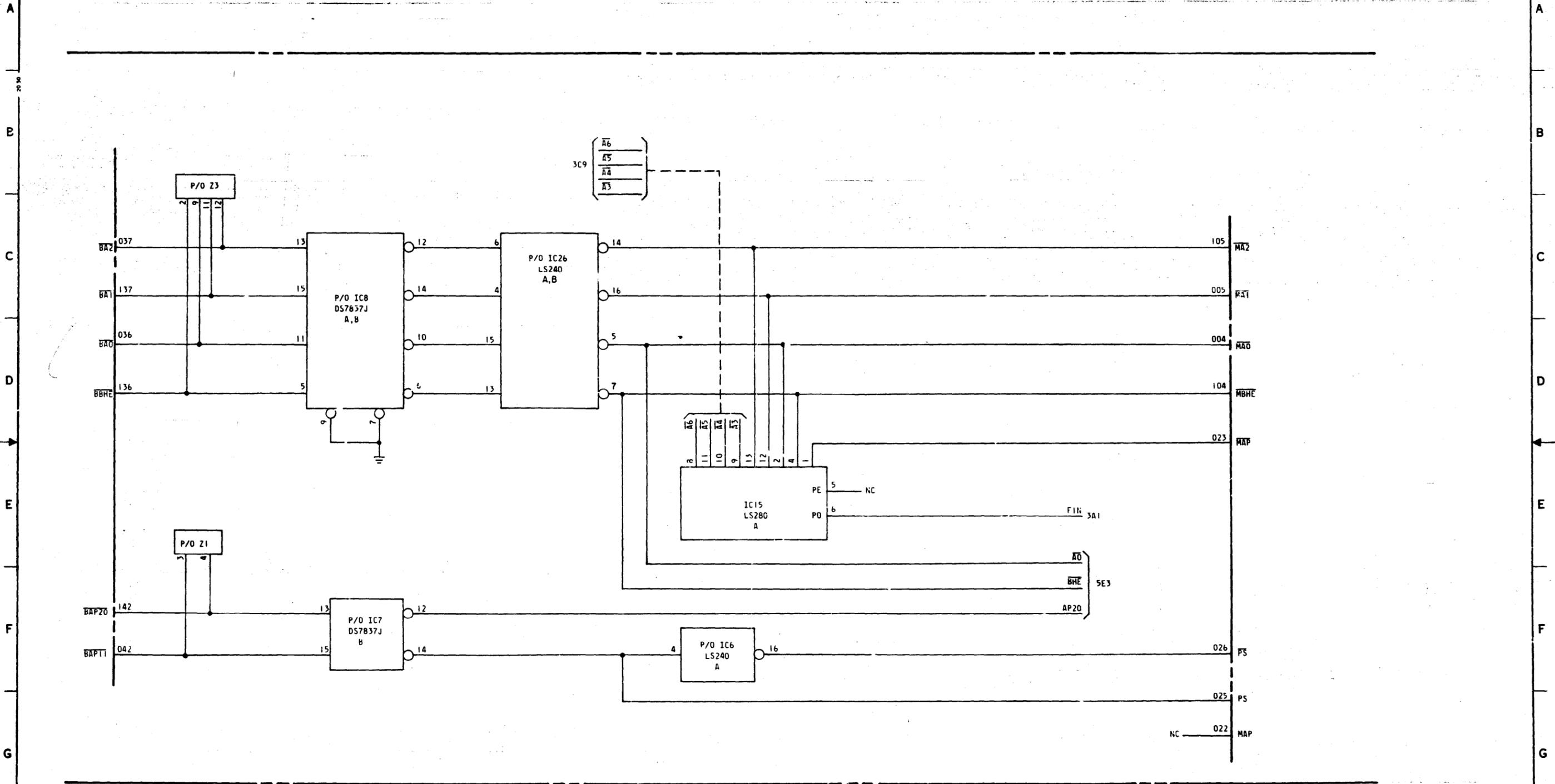
PART OF CPS SL61
MATRIX INTERFACE



SL6. CIRCUIT PACK		DWG SIZE	ISSUE
		65	2
BELL LABORATORIES	CPS-SL61	SHEET 3	

PART OF CPS SL61
MATRIX INTERFACE

0 1 2 3 4 5 6 7 8 9

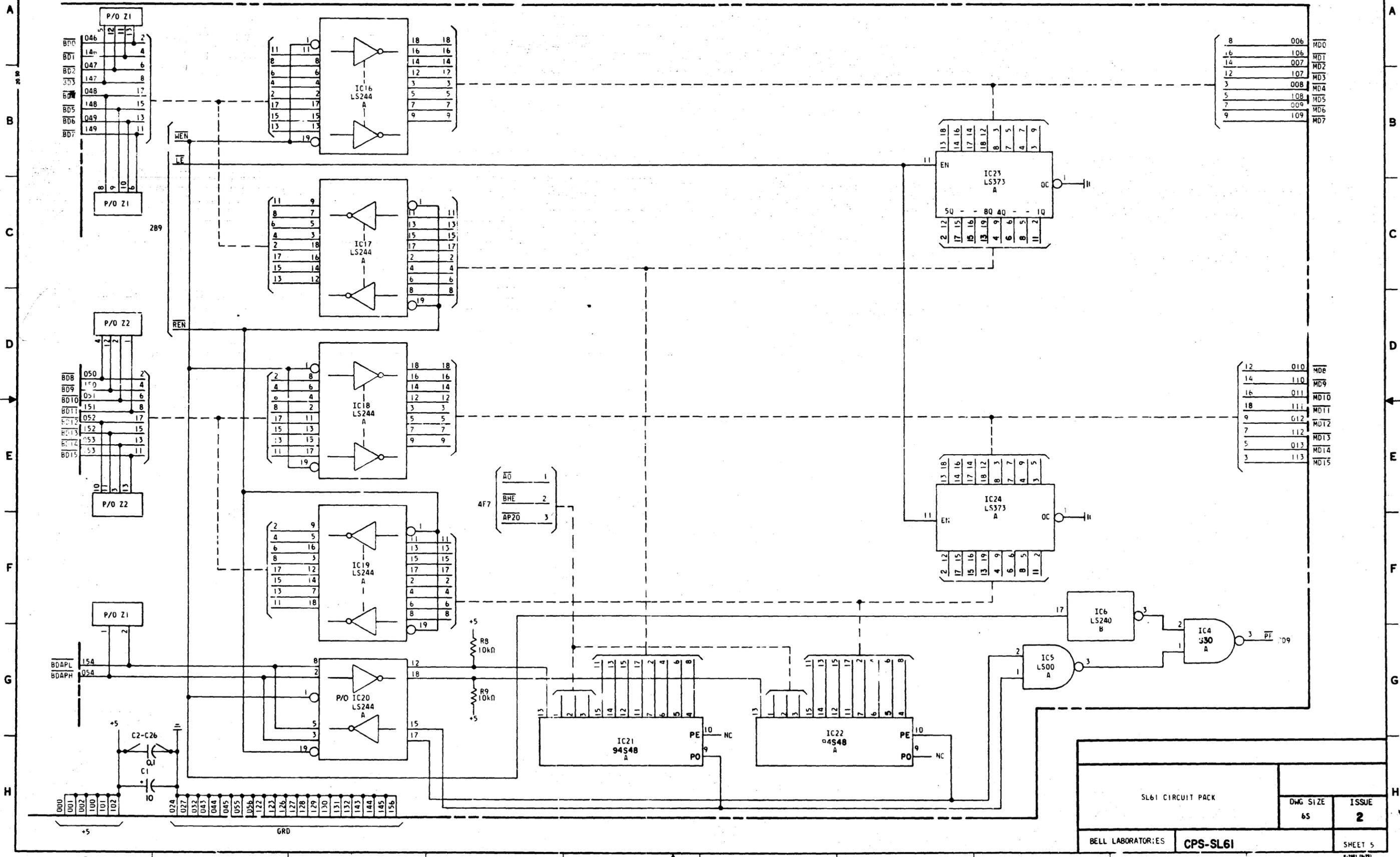


SL61 CIRCUIT PACK		DWG SIZE	ISSUE
		65	2
BELL LABORATORIES	CPS-SL61	SHEET 4	

0 1 2 3 4 5 6 7 8 9

PART OF CPS SL61

MATRIX INTERFACE



8	006	MD0
16	106	MD1
14	007	MD2
12	107	MD3
3	008	MD4
5	108	MD5
7	009	MD6
9	109	MD7

12	010	MD8
14	110	MD9
16	011	MD10
18	111	MD11
9	012	MD12
7	112	MD13
5	013	MD14
3	113	MD15

SL61 CIRCUIT PACK		DWG SIZE 65	ISSUE 2
BELL LABORATORIES		CPS-SL61	
		SHEET 5	

PART OF CPS SL61

COMPONENT LIST

CIRCUIT, INTEGRATED

CP LOC	IC1		IC2		IC3		IC4		IC5		IC6		IC7		IC8	
CODE	AM25LS2521DMXX		AM25LS2521DMXX		SN54 S32J-00X OR KS-28127, L17		SN54S38J-00X		WA-LS00 OR SN54LS00J-00X		WA-LS240 OR SN54LS240J-00X		DS7837JXXX		DS7837JXXX	
ELEMENT	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC
A		2D3		2F3		2B4		5G8		5G7						
B						SPARE		SPARE		SPARE						
C						2B7		2D7		2C7						
D						2B7		2D7		3B1						
E																
F																
G																
H																
I																
J																

CP LOC	IC9		IC10		IC11		IC12		IC13		IC14		IC15		IC16	
CODE	WA-LS138 OR SN54LS138J-00X		WA-LS138 OR SN54LS138J-00X		WA-LS138 OR SN54LS138J-00X		WA-LS138 OR SN54LS138J-00X		AM25LS2521DMXX		AM25LS2521DMXX		SN54LS280J-00X OR KS-21285, L45		WA-LS244 OP SN54LS244J-00X	
ELEMENT	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC						
A		3D2		3D3		3D5		3D6		3E4		3G4		4E4		5B2
B																
C																
D																
E																
F																
G																
H																
I																
J																

CP LOC	IC17		IC18		IC19		IC20		IC21		IC22		IC23		IC24	
CODE	WA-LS244 OR SN54LS244J-00X		WA-LS244 OR SN54LS244J-00X		WA-LS244 OR SN54LS244J-00X		WA-LS244 OR SN54LS244J-00X		AM93S48DMXX		AM93S48DMXX		SN54LS373J-00X		SN54LS373J-00X	
ELEMENT	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC						
A		5C2		5E2		5F2		5G2		5G4		5G5		5C7		5F7
B																
C																
D																
E																
F																
G																
H																
I																
J																

CP LOC	IC25		IC26													
CODE	DS7837JXXX		WA-LS240 OR SN54LS240J-00X													
ELEMENT	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC	DESIG	SH LOC
A																
B																
C																
D																
E																
F																
G																
H																
I																
J																

* TEXAS INSTRUMENTS
 ** ADVANCED MICRO DEVICES
 *** NATIONAL SEMICONDUCTOR

CAPACITOR

DESIG	CODE
C1	601B, 10
[25]C2-C26	KS-21901, L1, 0.1

NETWORK

DESIG	CODE
[3]Z1-Z3	KS-21288, L5

RESISTOR

DESIG	CODE
R1	KS-20616, L1A, 200
[4]R2-R5	KS-20616, L1A, 10KΩ
R6	KS-20616, L1A, 470
R7	KS-20616, L1A, 1KΩ
R8-R10	KS-20616, L1A, 10KΩ
R11, R12	KS-20616, L1A, 4.7KΩ
R13	KS-20616, L1A, 10KΩ

INPUT/OUTPUT INFORMATION

INPUT/OUTPUT LEADS

LEADS	DEFINITION
AS1-AS4	ADDRESS STRAPS
BA0-BA7	ADDRESS LEADS
BA0W	ALL DECODE WELL
BAPT1	ADDRESS PARITY OVER A0-AT0
BAPT0	ADDRESS PARITY OVER A0-AT9 AND BHE
BHE	BUS HIGH ENABLE
BDO-BDT5	DATA LEADS
BDAPH	DATA ADDRESS PARITY OVER THE HIGH BYTE OF DATA
	DATA ADDRESS PARITY OVER THE LOW BYTE OF DATA
BDAPL	NOT ALL WELL MATRIX
BNAW	PERIPHERAL ENABLE
BPE	RESET
BST	READ/WRITE LEAD
BR/W	WRITE STROBE
BWR	STROBE LEAD
STB	

OUTPUTS

LEADS	DEFINITION
BDEN0-BDEN5	BOARD ENABLES
MA0-MA2	ADDRESS LEADS
MADW	ALL DECODE WELL
MAP, MAP	ADDRESS PARITY
BHE	BUS HIGH ENABLE
BDO-BDT5	DATA LEADS
MRST	RESET
MR/W	READ/WRITE LEAD
MWR	WRITE STROBE
PS, PS	PARITY STRAPS TO BE CONNECTED TO MAP AND MAP

LEADS ON BOARD

LEADS	DEFINITION
CE	CHIP ENABLE
FIN	FAULT INSERTION
LE	LATCH ENABLE
MEN, MEN	MATRIX ENABLE
PF	PARITY FAILURE
REN	READ ENABLE
WEN	WRITE ENABLE
GND	GROUND RETURN
NC	NO CONNECTION
+5V	BATTERY

CIRCUIT DESCRIPTION

SL61 IS THE MATRIX INTERFACE BOARD (MIF) FOR THE DISTRIBUTE AND SCAN (DAS) CIRCUITS OF THE CDT SYSTEM. ITS PURPOSE IS TO BUFFER AND ISOLATE THE I/O BUS FROM THE DAS BUS. THE CIRCUIT CAN BE DIVIDED INTO THREE PARTS: A BOARD ENABLE-DECODER WHICH IS PROGRAMMABLE TO ONE OF 16 ADDRESSES (IC'S 1,2,3), AN ADDRESS PARITY DECODER AND ONE OUT OF SIXTEEN DECODER (IC'S 9,10,11,12,13,14) TO GENERATE INDIVIDUAL BOARD ENABLE SIGNALS FOR THE SCAN OR DISTRIBUTE BOARDS, AND A BIDIRECTIONAL DATA BUS BUFFER AND DATA PARITY GENERATOR/CHECKER WITH LATCH (IC'S 16, 17, 18, 19, 20, 21, 22, 23, 24).

EACH PART HAS ERROR DETECTING FEATURES WHICH GENERATE THE NOT ALL WELL MATRIX (NAW) SIGNAL. A TEST OF THE ERROR DETECTION IS PERFORMED BY SENDING FALSE PARITY FROM THE CPU VIA THE I/O BUS. FALSE ADDRESS PARITY IS DETECTED BY IC15 WHICH IN TURN DISABLES ONE HALF OF THE DUPLICATED ONE OUT OF SIXTEEN DECODERS (IC'S 9,10). THIS IS DETECTED BY ITS ASSOCIATED MATCHER, IC13 AND IC14, WHICH IN TURN DISABLES ONE HALF OF THE DUPLICATED BOARD ENABLE DECODER IC2. THE OUTPUT OF IC2 GENERATES THE NAWM SIGNAL VIA IC4.

FALSE DATA PARITY IS DETECTED BY IC21 AND IC22 AND GENERATES A NAWM VIA IC5 AND COLLECTOR OHED IC4.

SL61 CIRCUIT PACK		DWG SIZE	ISSUE
		6S	2
BELL LABORATORIES		CPS - SL61	
		SHEET 6	