

UPDATING SUPPLEMENT FOR OPERATING AND SERVICE MANUAL

1 MAY 1970

MANUAL IDENTIFICATION

Manual Serial No. Prefix: 942-
Manual Printed: October 1969
Manual Part Number: 02114-90399

SUPPLEMENT DESCRIPTION

The purpose of this supplement is to adapt the manual to instruments containing production improvements made subsequent to the printing of the manual and to correct manual errors. Enter the new information (or the Change Number, if more convenient) into the appropriate places in the manual, identified at left.

INSTRUMENT CHANGES

Serial No. Prefix	Change
ALL	1-3, 14-18
930-	4
943-	5
947-	6-9
949-	10-13
972-	17,18

ASSEMBLY CHANGES

Ref Des	Description	HP Part No.	Rev	Changes
A24	Display Board	02114-6009	E-944-22	6-9
A302	Regulator Board	02114-6010	A-949-22	10-13

NOTE:

Changes 1 through 9 dated 5 December 1969
Changes 10 through 16 dated 1 February 1970
Changes 17 through 18 dated 1 May 1970

US-1

CHANGEDESCRIPTION

- 1 If Shift Rotate Group Test Hardward Diagnostic Program Tape No. 20402D is used, make the following corrections to the diagnostic test procedures:

a. Page 5-10, Table 5-10. Make the following additional entries at the bottom of the table:

Table 5-10. Shift-Rotate Instruction Test
(Basic Portion) Error Halts

LOCATION (P)	INSTRUCTION FAILURE
6350	E did not clear after ERA
6354	ELB, SLB failed if B=000001, E=0 ERB, SLB failed if B=000000, E=1
6357	E did not clear after ERB
6363	E did not set after ERA
6366	E did not set after ELA
6372	E did not set after ERB
6375	E did not set after ELB

b. Page 5-13, Paragraph 5-76. In line 6, change "006540" to read "006570". In line 11, change "006546" to read "006576". In line 17, change "006540" to read "006570".

c. Page 5-13, Table 5-11. Correct the table to read as follows:

Table 5-11. Shift-Rotate Group Test Sections

LOCATION	TEST
4500-4506	Shift Pattern Array
4507-5477	Good Comparison Pattern Array
5500-6137	Shift Code Combination Array
6200-6374	Basic Reliability Test
6375-7104	Main Control Program

CHANGE

DESCRIPTION

d. Page 5-13, Paragraph 5-83. In the last line, change "006345" to read "006375".

e. Page 5-14, Paragraph 5-85. In the third line, change "006540" to read "006570". In the seventh line change "006546" to read "006576".

f. Page 5-15/5-16, Figure 5-2. Delete Figure 5-2 from the manual. Note that Table 5-13 is also included on page 5-15/5-16 and should be retained.

g. Page SR-1 through SR-10. Replace the Shift Rotate Group Diagnostic listings with the revised pages attached to the back of this supplement.

CHANGEDESCRIPTION

2 Page 6-23, table 6-2. At the intersection of REF. NO. 168 and column A9 add pin 54.

3 Page 6-54, table 6-12. Make the additional entries given below.

S1-S9,16-32 S10-S15 W1,2	02114-6021** 3101-0932 8159-0005	PROXIMITY SWITCH ASSY SWITCH: SLIDE ASSY JUMPER WIRE	28480 79727 28480	02114-6021 GG350-0001 8159-0005
**For individual switch replacement order as follows:				
S1	02114-80463	Proximity Switch Assy - PRESET	28480	02114-80463
S2	02114-80464	Proximity Switch Assy - RUN	28480	02114-80464
S3	02114-80465	Proximity Switch Assy - HALT	28480	02114-80465
S4	02114-80466	Proximity Switch Assy - LOAD	28480	02114-80466
S5	02114-80468	Proximity Switch Assy - LOAD MEMORY	28480	02114-80468
S6	02114-80467	Proximity Switch Assy - LOAD ADDRESS	28480	02114-80467
S7	02114-80469	Proximity Switch Assy - DISPLAY MEMORY	28480	02114-80469
S8	02114-80470	Proximity Switch Assy - SINGLE-CYCLE	28480	02114-80470
S9	02114-80471	Proximity Switch Assy - CLEAR REGISTER	28480	02114-80471
S16	02114-80462	Proximity Switch Assy - 15	28480	02114-80462
S17	02114-80461	Proximity Switch Assy - 14	28480	02114-80461
S18	02114-80460	Proximity Switch Assy - 13	28480	02114-80460
S19	02114-80459	Proximity Switch Assy - 12	28480	02114-80459
S20	02114-80458	Proximity Switch Assy - 11	28480	02114-80458
S21	02114-80457	Proximity Switch Assy - 10	28480	02114-80457
S22	02114-80456	Proximity Switch Assy - 9	28480	02114-80456
S23	02114-80455	Proximity Switch Assy - 8	28480	02114-80455
S24	02114-80454	Proximity Switch Assy - 7	28480	02114-80454
S25	02114-80453	Proximity Switch Assy - 6	28480	02114-80453
S26	02114-80452	Proximity Switch Assy - 5	28480	02114-80452
S27	02114-80451	Proximity Switch Assy - 4	28480	02114-80451
S28	02114-80450	Proximity Switch Assy - 3	28480	02114-80450
S29	02114-80449	Proximity Switch Assy - 2	28480	02114-80449
S30	02114-80448	Proximity Switch Assy - 1	28480	02114-80448
S31	02114-80447	Proximity Switch Assy - 0	28480	02114-80447

4 Backdating information for instruments with serial number prefix 930- is given in appendix B of the manual.

5 No changes to the manual are required to make it applicable to instruments with serial number prefix 943-.

6 Page 6-54, table 6-12. Change the entry "C101, 110, 113, 115, 401-413" in the REFERENCE DESIGNATION column to "C101, 110, 113, 115, 401-414".

CHANGEDESCRIPTION

- 7 Page 6-54, figure 6-18. Make the changes indicated in figure 1 of this supplement.
- 8 Page 6-55, figure 6-19. Make the changes indicated in figure 2 of this supplement.
- 9 Page 7-3, table 7-2. Change the entry in the TQ column for HP Part No. 0160-2055, to "373".
- 10 Page 6-64, table 6-16. Change the part number for MC1 to "1820-0247". Add an entry for "C76, 0160-2055, C:FXD CER 0.01UF +80 -20% 100VDCW, 28480, 0160-2055".
- 11 Page 6-65, figure 6-24. Make the changes indicated in figure 3 of this supplement.
- 12 Page 6-67/6-68, figure 6-26. Make the changes indicated in figure 4 of this supplement.
- 13 Page 7-3, table 7-2. Change the entry in the TQ column for part number 0160-2055 to "374". Delete the entry for part number 1820-0105. For part number 1820-0247 add "INTEGRATED CIRCUIT VOLTAGE REGULATOR, 28480, 1820-0247, 1".
- 14 Page 6-59, table 6-13. In the REFERENCE DESIGNATION column change the entry for part no. 2110-0055 to "F6", and the entry for part no. 2110-0010 to "F2, F3, F4".
- 15 Page 6-67/6-68, figure 6-26. Change the value of F2 to "5A".
- 16 Page 7-6, table 7-2. Change the entry in the TQ column for part no. 2110-0010 to "3". Change the entry in the TQ column for part no. 2110-0055 to "1".
- 17 Page 6-59, table 6-13. Change the entry for F2, F3, and F4 to: "FUSE: CARTRIDGE 5 AMP 125V, 75915, 313005".
- 18 Page 7-6, table 7-2. Delete the entry for part no. 2110-0010 and add the following entry for part no. 2110-0030: "FUSE: CARTRIDGE 5 AMP 125V, 75915, 313005, 3".

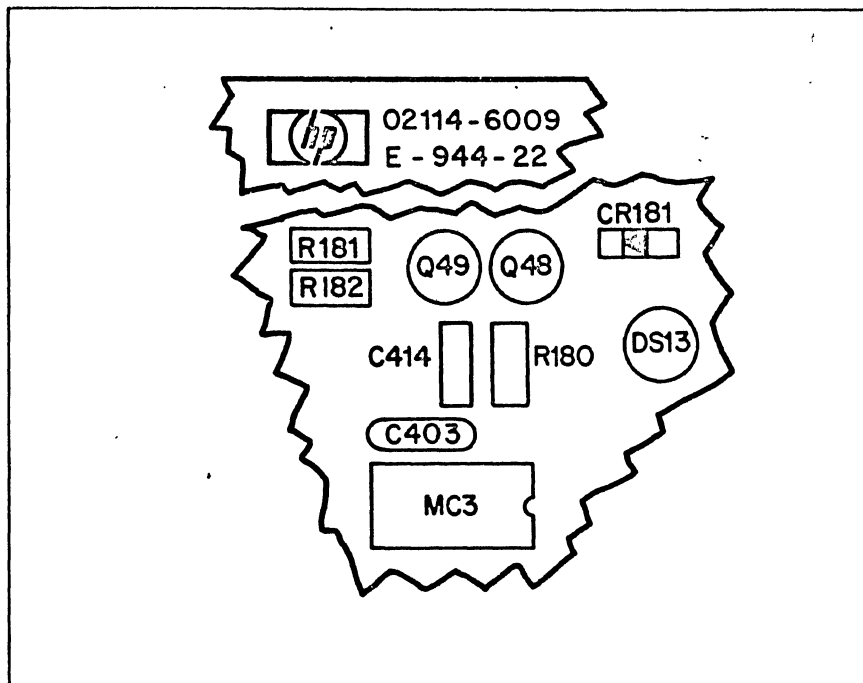


Figure 1. Display Board (02114-6009), Partial Part Location Diagram Showing Changes for Board Revision E-944-22

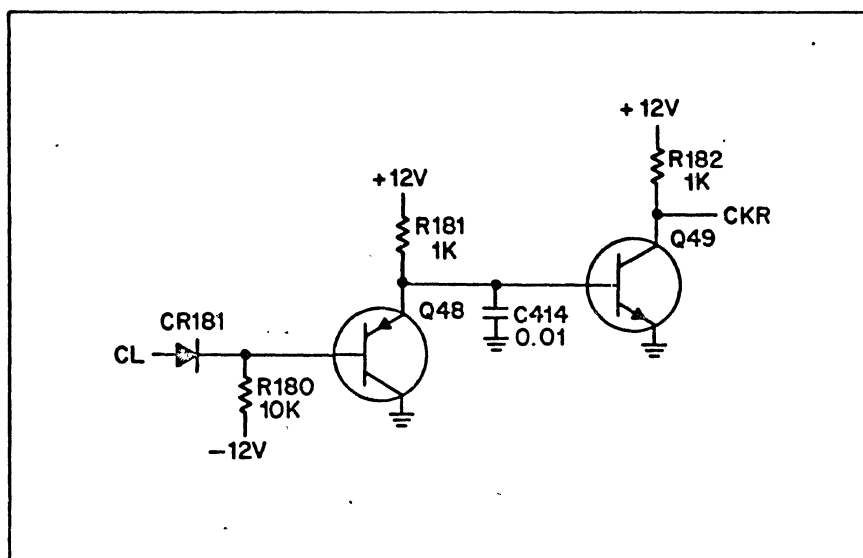


Figure 2. Display Board (02114-6009), Partial Schematic Diagram Showing Changes for Board Revision E-944-22

A302 REGULATOR BOARD (02114-6010, REV 949)

UPPER
RIGHT

CENTER
RIGHT

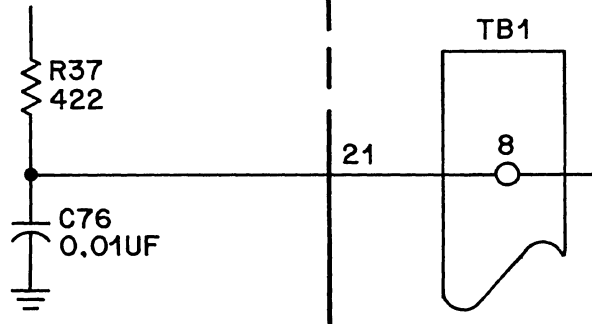


Figure 3. Voltage Regulator Card (02114-6010), Partial Part Location Diagram Showing Changes for Board Revision A-949-22.

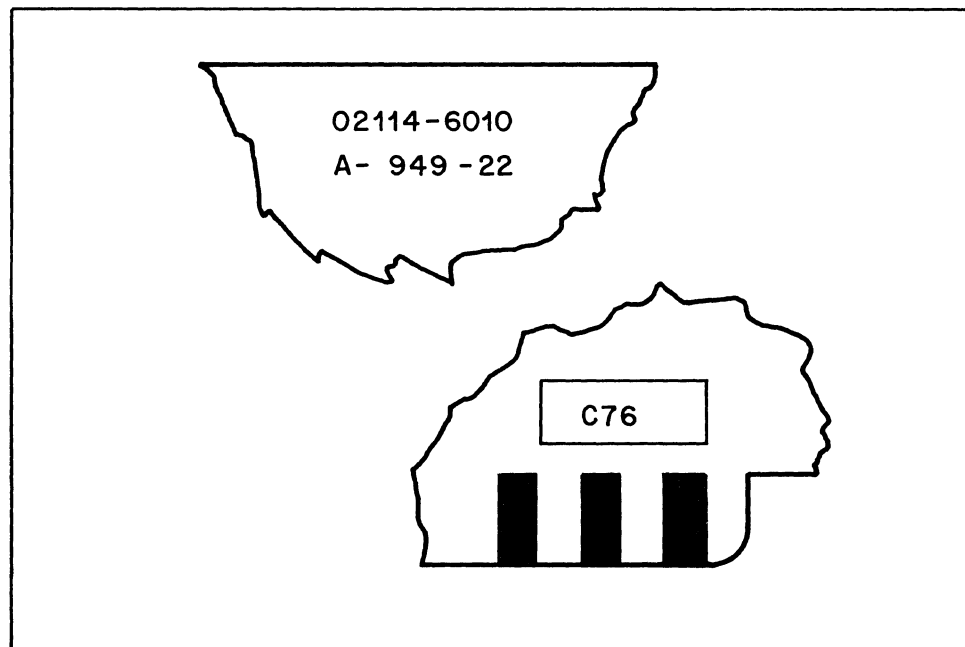


Figure 4. Voltage Regulator Card (02114-6010), Partial Schematic Diagram Showing Changes for Board Revision A-949-22.

SHIFT-ROTATE INSTRUCTION TEST

Tape No. HP 20402D

Listing No. HP 20402D-

Model 2114B Volume Two

Listing Shift-Rotate Instruction Test

PAGE 0001

```
0001          ASMB,A,B,L,T      DECEMBER 23,1969
PAT1 004500
PAT2 004501
PAT3 004502
PAT4 004503
PAT5 004504
PAT6 004505
PAT7 004506
P0020 004507
P0021 004516
P0022 004525
P0023 004534
P0024 004543
P0025 004552
P0026 004561
P0027 004570
P1020 004577
P1021 004606
P1022 004615
P1023 004624
P1024 004633
P1025 004642
P1026 004651
P1027 004660
P1120 004667
P1121 004676
P1122 004705
P1123 004714
P1124 004723
P1125 004732
P1126 004741
P1127 004750
P1220 004757
P1221 004766
P1222 004775
P1223 005004
P0224 005013
P1225 005022
P1226 005031
P1227 005040
P1320 005047
P1321 005056
P1322 005065
P1323 005074
P1324 005103
P1325 005112
P1326 005121
P1327 005130
P1420 005137
P1421 005146
P1422 005155
P1423 005164
P1424 005173
P1425 005202
P1426 005211
P1427 005220
```

PAGE 0002

```
P1520 005227
P1521 005236
P1522 005245
P1523 005254
P1524 005263
P1525 005272
P1526 005301
P1527 005310
P1620 005317
P1621 005326
P1622 005335
P1623 005344
P1624 005353
P1625 005362
P1626 005371
P1627 005400
P1720 005407
P1721 005416
P1722 005425
P1723 005434
P1724 005443
P1725 005452
P1726 005461
P1727 005470
PASS1 005500
PASS2 005610
PASS3 005720
PASS4 006030
END 006140
BAD 006141
TADR 006142
RPAT 006143
PAT 006144
TPAT 006145
LPAT 006146
CON1 006147
CON2 006156
INBAR 006151
TEMP 006152
PAS1 006153
PAS2 006154
PAS3 006155
PAS4 006156
ILL1 006157
ILL2 006160
ILL3 006161
ILL4 006162
ILL5 006163
ILL6 006164
ILL7 006165
ILL8 006166
SHASK 006167
AMSK1 006170
BASIC 006200
INIT 006375
START 006404
```

PAGE 0003

```
SETUP 006427
CHECK 006431
BACK 006432
NINST 006441
NPASS 006456
MOD1 006461
BHOD1 006473
FB 006503
AMOD1 006512
FA 006522
ILLC 006531
SEVEN 006532
TI00A 006540
SHA1 006543
TI00B 006551
SH01 006554
ERROR 006563
SUB1 006577
SOVFC 006600
JSA 006601
JSB 006602
SSHA1 006603
SSHB1 006604
AHASK 006605
BHASK 006606
ASPEC 006607
BSPEC 006746
** NO ERRORS*
```

PAGE 0004 #01

```
0001          ASMB,A,B,L,T      DECEMBER 23,1969
0002 04500          ORG 4500B
0003 04500 000001 PAT1 OCT 1
0004 04501 100000 PAT2 OCT 100000
0005 04502 100001 PAT3 OCT 100001
0006 04503 074170 PAT4 OCT 074170
0007 04504 103607 PAT5 OCT 103607
0008 04505 125252 PAT6 OCT 125252
0009 04506 052525 PAT7 OCT 052525
0010 04507 000002 P0020 OCT 2
0011 04510 100000 OCT 100000
0012 04511 100002 OCT 100002
0013 04512 070360 OCT 070360
0014 04513 107416 OCT 107416
0015 04514 152524 OCT 152524
0016 04515 025252 OCT 025252
0017 04516 000000 P0021 OCT 0
0018 04517 140000 OCT 140000
0019 04520 140000 OCT 140000
0020 04521 036074 OCT 036074
0021 04522 141703 OCT 141703
0022 04523 152525 OCT 152525
0023 04524 025252 OCT 025252
0024 04525 000002 P0022 OCT 2
0025 04526 000001 OCT 1
0026 04527 000003 OCT 3
0027 04530 170360 OCT 170360
0028 04531 007417 OCT 7417
0029 04532 052525 OCT 052525
0030 04533 125252 OCT 125252
0031 04534 100000 P0023 OCT 100000
0032 04535 040000 OCT 40000
0033 04536 140000 OCT 140000
0034 04537 036074 OCT 036074
0035 04540 141703 OCT 141703
0036 04541 052525 OCT 052525
0037 04542 125252 OCT 125252
0038 04543 000002 P0024 OCT 2
0039 04544 000000 OCT 0
0040 04545 000002 OCT 2
0041 04546 070360 OCT 070360
0042 04547 007416 OCT 7416
0043 04550 052524 OCT 52524
0044 04551 025252 OCT 25252
0045 04552 000000 P0025 OCT 0
0046 04553 040000 OCT 40000
0047 04554 040000 OCT 40000
0048 04555 036074 OCT 36074
0049 04556 041703 OCT 41703
0050 04557 052525 OCT 52525
0051 04560 025252 OCT 25252
0052 04561 000002 P0026 OCT 2
0053 04562 000000 OCT 0
0054 04563 000002 OCT 2
0055 04564 170360 OCT 170360
0056 04565 007416 OCT 7416
```

Listing Shift-Rotate Instruction Test

Model 2114B
Volume Two

PAGE 0005 #01

0057	04556	052524	OCT	52524
0058	04557	125252	OCT	125252
0059	04570	000020	P1027	OCT 20
0060	04571	000010	OCT	10
0061	04572	000030	OCT	30
0062	04573	103607	OCT	103607
0063	04574	074170	OCT	74170
0064	04575	125252	OCT	125252
0065	04576	052525	OCT	52525
0066	04577	000004	P1028	OCT 4
0067	04590	100000	OCT	100000
0068	04631	100004	OCT	100004
0069	04602	060740	OCT	60740
0070	04603	117034	OCT	117034
0071	04604	125252	OCT	125252
0072	04605	052524	OCT	52524
0073	04606	000001	P1021	OCT 1
0074	04607	140000	OCT	140000
0075	04610	140001	OCT	140001
0076	04611	034170	OCT	034170
0077	04612	143607	OCT	143607
0078	04613	160252	OCT	160252
0079	04614	012525	OCT	12525
0080	04615	000004	P1022	OCT 4
0081	04616	000001	OCT	1
0082	04617	000005	OCT	5
0083	04620	160740	OCT	160740
0084	04621	017035	OCT	17035
0085	04622	125251	OCT	125251
0086	04623	052524	OCT	52524
0087	04624	000001	P1023	OCT 1
0088	04625	040000	OCT	40000
0089	04626	040001	OCT	40001
0090	04627	034170	OCT	34170
0091	04630	043607	OCT	43607
0092	04631	052525	OCT	52525
0093	04632	012525	OCT	12525
0094	04633	000004	P1024	OCT 4
0095	04634	000000	OCT	0
0096	04635	000004	OCT	4
0097	04636	060740	OCT	60740
0098	04637	017034	OCT	17034
0099	04640	025250	OCT	25250
0100	04641	052524	OCT	52524
0101	04642	000001	P1025	OCT 1
0102	04643	040000	OCT	40000
0103	04644	040001	OCT	40001
0104	04645	034170	OCT	34170
0105	04646	043607	OCT	43607
0106	04647	065252	OCT	65252
0107	04650	012525	OCT	12525
0108	04651	000004	P1026	OCT 4
0109	04652	000000	OCT	0
0110	04653	000004	OCT	4
0111	04654	160740	OCT	160740
0112	04655	017034	OCT	17034

PAGE 0006 #01

0113	04656	125250	OCT	125250
0114	04657	052524	OCT	52524
0115	04660	000040	P1027	OCT 40
0116	04661	000010	OCT	10
0117	04662	000000	OCT	0
0118	04663	007407	OCT	7407
0119	04664	170350	OCT	170350
0120	04665	052515	OCT	52515
0121	04666	125242	OCT	125242
0122	04667	000000	P1120	OCT 0
0123	04670	100000	OCT	100000
0124	04671	100000	OCT	100000
0125	04672	074170	OCT	74170
0126	04673	103606	OCT	103606
0127	04674	125252	OCT	125252
0128	04675	052524	OCT	52524
0129	04676	000000	P1121	OCT 0
0130	04677	160000	OCT	160000
0131	04700	160000	OCT	160000
0132	04701	017036	OCT	17036
0133	04702	160741	OCT	160741
0134	04703	160252	OCT	160252
0135	04704	012525	OCT	12525
0136	04735	000000	P1122	OCT 0
0137	04706	100001	OCT	100001
0138	04707	100001	OCT	100001
0139	04710	074170	OCT	74170
0140	04711	103607	OCT	103607
0141	04712	125253	OCT	125253
0142	04713	052524	OCT	52524
0143	04714	000000	P1123	OCT 0
0144	04715	060000	OCT	60000
0145	04716	060000	OCT	60000
0146	04717	017036	OCT	17036
0147	04720	160741	OCT	160741
0148	04721	160252	OCT	160252
0149	04722	012525	OCT	12525
0150	04723	000000	P1124	OCT 0
0151	04724	000000	OCT	0
0152	04725	000000	OCT	0
0153	04726	074170	OCT	74170
0154	04727	003606	OCT	3606
0155	04730	025252	OCT	25252
0156	04731	052524	OCT	52524
0157	04732	000000	P1125	OCT 0
0158	04733	060000	OCT	60000
0159	04734	060000	OCT	60000
0160	04735	017036	OCT	17036
0161	04736	060741	OCT	60741
0162	04737	065252	OCT	65252
0163	04740	012525	OCT	12525
0164	04741	000000	P1126	OCT 0
0165	04742	100000	OCT	100000
0166	04743	100000	OCT	100000
0167	04744	074170	OCT	74170
0168	04745	103606	OCT	103606

PAGE 0007 #01

0169	04746	125252	OCT	125252
0170	04747	052524	OCT	52524
0171	04750	000000	P1127	OCT 0
0172	04751	000014	OCT	14
0173	04752	000014	OCT	14
0174	04753	141703	OCT	141703
0175	04754	036074	OCT	36074
0176	04755	052535	OCT	52535
0177	04756	125242	OCT	125242
0178	04757	000004	P1220	OCT 4
0179	04758	000002	OCT	2
0180	04761	000006	OCT	6
0181	04762	160740	OCT	160740
0182	04763	017036	OCT	17036
0183	04764	025252	OCT	25252
0184	04765	125224	OCT	125224
0185	04766	000001	P1221	OCT 1
0186	04767	000000	OCT	0
0187	04770	000001	OCT	1
0188	04771	174170	OCT	174170
0189	04772	003607	OCT	3607
0190	04773	025252	OCT	25252
0191	04774	152525	OCT	152525
0192	04775	000004	P1222	OCT 4
0193	04776	000002	OCT	2
0194	04777	000006	OCT	6
0195	05000	160741	OCT	160741
0196	05001	017036	OCT	17036
0197	05002	125252	OCT	125252
0198	05003	052525	OCT	52525
0199	05004	000001	P1223	OCT 1
0200	05005	100000	OCT	100000
0201	05006	100001	OCT	100001
0202	05007	074170	OCT	74170
0203	05010	103607	OCT	103607
0204	05011	125252	OCT	125252
0205	05012	052525	OCT	52525
0206	05013	000004	P0224	OCT 4
0207	05014	000002	OCT	2
0208	05015	000006	OCT	6
0209	05016	060740	OCT	60740
0210	05017	017036	OCT	17036
0211	05020	025252	OCT	25252
0212	05021	052524	OCT	52524
0213	05022	000001	P1225	OCT 1
0214	05023	000000	OCT	0
0215	05024	000001	OCT	1
0216	05025	074170	OCT	74170
0217	05026	003607	OCT	3607
0218	05027	025252	OCT	25252
0219	05030	052525	OCT	52525
0220	05031	000004	P1226	OCT 4
0221	05032	000002	OCT	2
0222	05033	000006	OCT	6
0223	05034	160740	OCT	160740
0224	05035	017036	OCT	17036

PAGE 0008 #01

0225	05036	125252	OCT	125252
0226	05037	052524	OCT	52524
0227	05040	000040	P1227	OCT 40
0228	05041	000020	OCT	20
0229	05042	000000	OCT	0
0230	05043	007417	OCT	7417
0231	05044	170360	OCT	170360
0232	05045	052525	OCT	52525
0233	05046	125252	OCT	125252
0234	05047	100000	P1320	OCT 100000
0235	05050	000000	OCT	0
0236	05051	100000	OCT	100000
0237	05052	074170	OCT	74170
0238	05053	103606	OCT	103606
0239	05054	025252	OCT	25252
0240	05055	152524	OCT	152524
0241	05056	140000	P1321	OCT 140000
0242	05057	020000	OCT	20000
0243	05060	160000	OCT	160000
0244	05061	017036	OCT	17036
0245	05062	160741	OCT	160741
0246	05063	025252	OCT	25252
0247	05064	152525	OCT	152525
0248	05065	000001	P1322	OCT 1
0249	05066	100000	OCT	100000
0250	05067	100001	OCT	100001
0251	05070	074170	OCT	74170
0252	05071	103607	OCT	103607
0253	05072	125252	OCT	125252
0254	05073	052525	OCT	52525
0255	05074	040000	P1323	OCT 40000
0256	05075	020000	OCT	20000
0257	05076	060000	OCT	60000
0258	05077	017036	OCT	17036
0259	05100	160741	OCT	160741
0260	05101	125252	OCT	125252
0261	05102	052525	OCT	52525
0262	05103	000000	P1324	OCT 0
0263	05104	000000	OCT	0
0264	05105	000000	OCT	0
0265	05106	074170	OCT	74170
0266	05107	003606	OCT	3606
0267	05110	025252	OCT	25252
0268	05111	052524	OCT	52524
0269	05112	040000	P1325	OCT 40000
0270	05113	020000	OCT	20000
0271	05114	060000	OCT	60000
0272	05115	017036	OCT	17036
0273	05116	060741	OCT	60741
0274	05117	025252	OCT	25252
0275	05120	052525	OCT	52525
0276	05121	000000	P1326	OCT 0
0277	05122	100000	OCT	100000
0278	05123	100000	OCT	100000
0279	05124	074170	OCT	74170
0280	05125	103606	OCT	103606

Model 2114B Volume Two

Listing Shift-Rotate Instruction Test

PAGE 0009 #01

0201	05126	125252	OCT	125252
0202	05127	052524	OCT	52524
0203	05130	000000	P1327	OCT 10
0204	05131	000004	OCT	4
0205	05132	000014	OCT	14
0206	05133	141703	OCT	141703
0207	05134	036074	OCT	36074
0208	05135	052525	OCT	52525
0209	05136	125252	OCT	125252
0210	05137	000004	P1420	OCT 4
0211	05140	000000	OCT	0
0212	05141	000004	OCT	4
0213	05142	060740	OCT	60740
0214	05143	017034	OCT	17034
0215	05144	025250	OCT	25250
0216	05145	052524	OCT	52524
0217	05146	000001	P1421	OCT 1
0218	05147	000000	OCT	0
0219	05150	000001	OCT	1
0220	05151	034170	OCT	34170
0221	05152	003607	OCT	3607
0222	05153	025252	OCT	25252
0223	05154	012525	OCT	12525
0224	05155	000004	P1422	OCT 0
0225	05156	000000	OCT	0
0226	05157	000004	OCT	4
0227	05158	160740	OCT	160740
0228	05161	017034	OCT	17034
0229	05162	125250	OCT	125250
0230	05163	052524	OCT	52524
0231	05164	000001	P1423	OCT 1
0232	05165	000000	OCT	0
0233	05166	000001	OCT	1
0234	05167	034170	OCT	34170
0235	05170	003607	OCT	3607
0236	05171	025252	OCT	25252
0237	05172	012525	OCT	12525
0238	05173	000004	P1424	OCT 4
0239	05174	000000	OCT	0
0240	05175	000004	OCT	4
0241	05176	060740	OCT	60740
0242	05177	017034	OCT	17034
0243	05178	025250	OCT	25250
0244	05179	052524	OCT	52524
0245	05202	000001	P1425	OCT 1
0246	05203	000000	OCT	0
0247	05204	000001	OCT	1
0248	05205	034170	OCT	34170
0249	05206	003607	OCT	3607
0250	05207	025252	OCT	25252
0251	05208	012525	OCT	12525
0252	05211	000004	P1426	OCT 4
0253	05212	000000	OCT	0
0254	05213	000004	OCT	4
0255	05214	160740	OCT	160740
0256	05215	017034	OCT	17034

PAGE 0010 #01

0337	05216	125250	OCT	125250
0338	05217	052524	OCT	52524
0339	05220	000004	P1427	OCT 40
0340	05221	000000	OCT	0
0341	05222	000004	OCT	40
0342	05223	007407	OCT	7407
0343	05224	170340	OCT	170340
0344	05225	052505	OCT	52505
0345	05226	125242	OCT	125242
0346	05227	000000	P1520	OCT 0
0347	05230	000000	OCT	0
0348	05231	000000	OCT	0
0349	05232	074170	OCT	74170
0350	05233	003606	OCT	3606
0351	05234	025252	OCT	25252
0352	05235	052524	OCT	52524
0353	05236	000000	P1521	OCT 0
0354	05237	000000	OCT	000000
0355	05240	020000	OCT	20000
0356	05241	017036	OCT	17036
0357	05242	020741	OCT	20741
0358	05243	025252	OCT	25252
0359	05244	012525	OCT	12525
0360	05245	000000	P1522	OCT 0
0361	05246	100000	OCT	100000
0362	05247	100000	OCT	100000
0363	05250	074170	OCT	74170
0364	05251	103606	OCT	103606
0365	05252	125252	OCT	125252
0366	05253	052524	OCT	52524
0367	05254	000000	P1523	OCT 0
0368	05255	020000	OCT	20000
0369	05256	020000	OCT	20000
0370	05257	017036	OCT	17036
0371	05260	120741	OCT	120741
0372	05261	125252	OCT	125252
0373	05262	012525	OCT	12525
0374	05263	000000	P1524	OCT 0
0375	05264	000000	OCT	0
0376	05265	000000	OCT	0
0377	05266	074170	OCT	74170
0378	05267	003606	OCT	3606
0379	05270	025252	OCT	25252
0380	05271	052524	OCT	52524
0381	05272	100000	P1525	OCT 100000
0382	05273	020000	OCT	20000
0383	05274	120000	OCT	120000
0384	05275	017036	OCT	17036
0385	05276	120741	OCT	120741
0386	05277	025252	OCT	25252
0387	05300	112525	OCT	112525
0388	05301	000001	P1526	OCT 1
0389	05332	100000	OCT	100000
0390	05303	100001	OCT	100001
0391	05304	074170	OCT	74170
0392	05335	103607	OCT	103607

PAGE 0011 #01

0393	05306	125252	OCT	125252
0394	05307	052525	OCT	52525
0395	05310	000000	P1527	OCT 0
0396	05311	000004	OCT	4
0397	05312	000004	OCT	4
0398	05313	141703	OCT	141703
0399	05314	036064	OCT	36064
0400	05315	052525	OCT	52525
0401	05316	125242	OCT	125242
0402	05317	000004	P1620	OCT 4
0403	05320	000000	OCT	0
0404	05321	000004	OCT	4
0405	05322	160740	OCT	160740
0406	05323	017034	OCT	17034
0407	05324	025250	OCT	25250
0408	05325	152524	OCT	152524
0409	05326	000001	P1621	OCT 1
0410	05327	000000	OCT	0
0411	05330	000001	OCT	1
0412	05331	174170	OCT	174170
0413	05332	003607	OCT	3607
0414	05333	025252	OCT	25252
0415	05334	152525	OCT	152525
0416	05335	000004	P1622	OCT 4
0417	05336	000000	OCT	0
0418	05337	000004	OCT	4
0419	05340	160741	OCT	160741
0420	05341	017034	OCT	17034
0421	05342	125250	OCT	125250
0422	05343	052525	OCT	52525
0423	05344	000001	P1623	OCT 1
0424	05345	000000	OCT	0
0425	05346	000001	OCT	1
0426	05347	074170	OCT	74170
0427	05350	003607	OCT	3607
0428	05351	025252	OCT	25252
0429	05352	052525	OCT	52525
0430	05353	000004	P1624	OCT 4
0431	05354	000000	OCT	0
0432	05355	000004	OCT	4
0433	05356	060740	OCT	60740
0434	05357	017034	OCT	17034
0435	05358	025250	OCT	25250
0436	05361	052524	OCT	52524
0437	05362	000001	P1625	OCT 1
0438	05363	100000	OCT	100000
0439	05364	100001	OCT	100001
0440	05365	074170	OCT	74170
0441	05366	103607	OCT	103607
0442	05367	125252	OCT	125252
0443	05370	052525	OCT	52525
0444	05371	000004	P1626	OCT 4
0445	05372	000001	OCT	1
0446	05373	000005	OCT	5
0447	05374	160740	OCT	160740
0448	05375	017035	OCT	17035

PAGE 0012 #01

0449	05376	125251	OCT	125251
0450	05377	052524	OCT	52524
0451	05400	000004	P1627	OCT 40
0452	05401	000000	OCT	0
0453	05402	000004	OCT	40
0454	05403	007417	OCT	7417
0455	05404	170340	OCT	170340
0456	05405	052505	OCT	52505
0457	05406	125252	OCT	125252
0458	05407	000004	P1720	OCT 40
0459	05410	000000	OCT	0
0460	05411	000000	OCT	0
0461	05412	107416	OCT	107416
0462	05413	070360	OCT	70360
0463	05414	152524	OCT	152524
0464	05415	025252	OCT	25252
0465	05416	000010	P1721	OCT 10
0466	05417	000004	OCT	4
0467	05420	000014	OCT	14
0468	05421	141703	OCT	141703
0469	05422	036074	OCT	36074
0470	05423	152525	OCT	152525
0471	05424	025252	OCT	25252
0472	05425	000004	P1722	OCT 40
0473	05426	000020	OCT	20
0474	05427	000000	OCT	0
0475	05430	007417	OCT	7417
0476	05431	170360	OCT	170360
0477	05432	052525	OCT	52525
0478	05433	125252	OCT	125252
0479	05434	000010	P1723	OCT 10
0480	05435	000004	OCT	4
0481	05436	000014	OCT	14
0482	05437	141703	OCT	141703
0483	05440	036074	OCT	36074
0484	05441	052525	OCT	52525
0485	05442	125252	OCT	125252
0486	05443	000004	P1724	OCT 40
0487	05444	000020	OCT	20
0488	05445	000000	OCT	0
0489	05446	007416	OCT	7416
0490	05447	070360	OCT	70360
0491	05450	052524	OCT	52524
0492	05451	025252	OCT	25252
0493	05452	000010	P1725	OCT 10
0494	05453	000004	OCT	4
0495	05454	000014	OCT	14
0496	05455	041703	OCT	41703
0497	05456	036074	OCT	36074
0498	05457	052525	OCT	52525
0499	05460	025252	OCT	25252
0500	05461	000004	P1726	OCT 40
0501	05462	000020	OCT	20
0502	05463	000000	OCT	0
0503	05464	007416	OCT	7416
0504	05465	170360	OCT	170360

Listing Shift-Rotate Instruction Test

Model 2114B
Volume Two

PAGE 0013 #01

0505	05466	052524	OCT 52524
0506	05467	125252	OCT 125252
0507	05470	000400	P1727 OCT 400
0508	05471	000200	OCT 200
0509	05472	000600	OCT 600
0510	05473	074170	OCT 74170
0511	05474	103607	OCT 103607
0512	05475	125252	OCT 125252
0513	05476	052525	OCT 52525
0514	05477	000000	OCT 0
0515	05500	000020	PASS1 OCT 20
0516	05501	000021	OCT 21
0517	05502	000022	OCT 22
0518	05503	000023	OCT 23
0519	05504	000024	OCT 24
0520	05505	000025	OCT 25
0521	05506	000026	OCT 26
0522	05507	000027	OCT 27
0523	05510	001020	OCT 1020
0524	05511	001021	OCT 1021
0525	05512	001022	OCT 1022
0526	05513	001023	OCT 1023
0527	05514	001024	OCT 1024
0528	05515	001025	OCT 1025
0529	05516	001026	OCT 1026
0530	05517	001027	OCT 1027
0531	05520	001120	OCT 1120
0532	05521	001121	OCT 1121
0533	05522	001122	OCT 1122
0534	05523	001123	OCT 1123
0535	05524	001124	OCT 1124
0536	05525	001125	OCT 1125
0537	05526	001126	OCT 1126
0538	05527	001127	OCT 1127
0539	05530	001220	OCT 1220
0540	05531	001221	OCT 1221
0541	05532	001222	OCT 1222
0542	05533	001223	OCT 1223
0543	05534	001224	OCT 1224
0544	05535	001225	OCT 1225
0545	05536	001226	OCT 1226
0546	05537	001227	OCT 1227
0547	05540	001320	OCT 1320
0548	05541	001321	OCT 1321
0549	05542	001322	OCT 1322
0550	05543	001323	OCT 1323
0551	05544	001324	OCT 1324
0552	05545	001325	OCT 1325
0553	05546	001326	OCT 1326
0554	05547	001327	OCT 1327
0555	05550	001420	OCT 1420
0556	05551	001421	OCT 1421
0557	05552	001422	OCT 1422
0558	05553	001423	OCT 1423
0559	05554	001424	OCT 1424
0560	05555	001425	OCT 1425

PAGE 0014 #01

0561	05556	001426	OCT 1426
0562	05557	001427	OCT 1427
0563	05560	001520	OCT 1520
0564	05561	001521	OCT 1521
0565	05562	001522	OCT 1522
0566	05563	001523	OCT 1523
0567	05564	001524	OCT 1524
0568	05565	001525	OCT 1525
0569	05566	001526	OCT 1526
0570	05567	001527	OCT 1527
0571	05570	001620	OCT 1620
0572	05571	001621	OCT 1621
0573	05572	001622	OCT 1622
0574	05573	001623	OCT 1623
0575	05574	001624	OCT 1624
0576	05575	001625	OCT 1625
0577	05576	001626	OCT 1626
0578	05577	001627	OCT 1627
0579	05580	001720	OCT 1720
0580	05581	001721	OCT 1721
0581	05582	001722	OCT 1722
0582	05583	001723	OCT 1723
0583	05584	001724	OCT 1724
0584	05585	001725	OCT 1725
0585	05586	001726	OCT 1726
0586	05587	001727	OCT 1727
0587	05590	000030	PASS2 OCT 30
0588	05591	000031	OCT 31
0589	05592	000032	OCT 32
0590	05593	000033	OCT 33
0591	05594	000034	OCT 34
0592	05595	000035	OCT 35
0593	05596	000036	OCT 36
0594	05597	000037	OCT 37
0595	05600	001030	OCT 1030
0596	05601	001031	OCT 1031
0597	05602	001032	OCT 1032
0598	05603	001033	OCT 1033
0599	05604	001034	OCT 1034
0600	05605	001035	OCT 1035
0601	05606	001036	OCT 1036
0602	05607	001037	OCT 1037
0603	05610	001130	OCT 1130
0604	05611	001131	OCT 1131
0605	05612	001132	OCT 1132
0606	05613	001133	OCT 1133
0607	05614	001134	OCT 1134
0608	05615	001135	OCT 1135
0609	05616	001136	OCT 1136
0610	05617	001137	OCT 1137
0611	05620	001230	OCT 1230
0612	05621	001231	OCT 1231
0613	05622	001232	OCT 1232
0614	05623	001233	OCT 1233
0615	05624	001234	OCT 1234
0616	05625	001235	OCT 1235

PAGE 0015 #01

0617	05646	001236	OCT 1236
0618	05647	001237	OCT 1237
0619	05650	001330	OCT 1330
0620	05651	001331	OCT 1331
0621	05652	001332	OCT 1332
0622	05653	001333	OCT 1333
0623	05654	001334	OCT 1334
0624	05655	001335	OCT 1335
0625	05656	001336	OCT 1336
0626	05657	001337	OCT 1337
0627	05660	001430	OCT 1430
0628	05661	001431	OCT 1431
0629	05662	001432	OCT 1432
0630	05663	001433	OCT 1433
0631	05664	001434	OCT 1434
0632	05665	001435	OCT 1435
0633	05666	001436	OCT 1436
0634	05667	001437	OCT 1437
0635	05670	001530	OCT 1530
0636	05671	001531	OCT 1531
0637	05672	001532	OCT 1532
0638	05673	001533	OCT 1533
0639	05674	001534	OCT 1534
0640	05675	001535	OCT 1535
0641	05676	001536	OCT 1536
0642	05677	001537	OCT 1537
0643	05700	001630	OCT 1630
0644	05701	001631	OCT 1631
0645	05702	001632	OCT 1632
0646	05703	001633	OCT 1633
0647	05704	001634	OCT 1634
0648	05705	001635	OCT 1635
0649	05706	001636	OCT 1636
0650	05707	001637	OCT 1637
0651	05710	001730	OCT 1730
0652	05711	001731	OCT 1731
0653	05712	001732	OCT 1732
0654	05713	001733	OCT 1733
0655	05714	001734	OCT 1734
0656	05715	001735	OCT 1735
0657	05716	001736	OCT 1736
0658	05717	001737	OCT 1737
0659	05720	000060	PASS3 OCT 60
0660	05721	000061	OCT 61
0661	05722	000062	OCT 62
0662	05723	000063	OCT 63
0663	05724	000064	OCT 64
0664	05725	000065	OCT 65
0665	05726	000066	OCT 66
0666	05727	000067	OCT 67
0667	05730	001060	OCT 1060
0668	05731	001061	OCT 1061
0669	05732	001062	OCT 1062
0670	05733	001063	OCT 1063
0671	05734	001064	OCT 1064
0672	05735	001065	OCT 1065

PAGE 0016 #01

0673	05736	001066	OCT 1066
0674	05737	001067	OCT 1067
0675	05740	001160	OCT 1160
0676	05741	001161	OCT 1161
0677	05742	001162	OCT 1162
0678	05743	001163	OCT 1163
0679	05744	001164	OCT 1164
0680	05745	001165	OCT 1165
0681	05746	001166	OCT 1166
0682	05747	001167	OCT 1167
0683	05750	001260	OCT 1260
0684	05751	001261	OCT 1261
0685	05752	001262	OCT 1262
0686	05753	001263	OCT 1263
0687	05754	001264	OCT 1264
0688	05755	001265	OCT 1265
0689	05756	001266	OCT 1266
0690	05757	001267	OCT 1267
0691	05760	001360	OCT 1360
0692	05761	001361	OCT 1361
0693	05762	001362	OCT 1362
0694	05763	001363	OCT 1363
0695	05764	001364	OCT 1364
0696	05765	001365	OCT 1365
0697	05766	001366	OCT 1366
0698	05767	001367	OCT 1367
0699	05770	001460	OCT 1460
0700	05771	001461	OCT 1461
0701	05772	001462	OCT 1462
0702	05773	001463	OCT 1463
0703	05774	001464	OCT 1464
0704	05775	001465	OCT 1465
0705	05776	001466	OCT 1466
0706	05777	001467	OCT 1467
0707	05800	001560	OCT 1560
0708	05801	001561	OCT 1561
0709	05802	001562	OCT 1562
0710	05803	001563	OCT 1563
0711	05804	001564	OCT 1564
0712	05805	001565	OCT 1565
0713	05806	001566	OCT 1566
0714	05807	001567	OCT 1567
0715	05810	001660	OCT 1660
0716	05811	001661	OCT 1661
0717	05812	001662	OCT 1662
0718	05813	001663	OCT 1663
0719	05814	001664	OCT 1664
0720	05815	001665	OCT 1665
0721	05816	001666	OCT 1666
0722	05817	001667	OCT 1667
0723	05820	001760	OCT 1760
0724	05821	001761	OCT 1761
0725	05822	001762	OCT 1762
0726	05823	001763	OCT 1763
0727	05824	001764	OCT 1764
0728	05825	001765	OCT 1765

Model 2114B Volume Two

Listing Shift-Rotate Instruction Test

PAGE 0017 #01

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0729 06026 001766 OCT 1766
0730 06027 001767 OCT 1767
0731 06030 000073 PAS94 OCT 70
0732 06031 000071 OCT 71
0733 06032 000072 OCT 72
0734 06033 000073 OCT 73
0735 06034 000074 OCT 74
0736 06035 000075 OCT 75
0737 06036 000076 OCT 76
0738 06037 000077 OCT 77
0739 06040 001070 OCT 1070
0740 06041 001071 OCT 1071
0741 06042 001072 OCT 1072
0742 06043 001073 OCT 1073
0743 06044 001074 OCT 1074
0744 06045 001075 OCT 1075
0745 06046 001076 OCT 1076
0746 06047 001077 OCT 1077
0747 06050 001170 OCT 1170
0748 06051 001171 OCT 1171
0749 06052 001172 OCT 1172
0750 06053 001173 OCT 1173
0751 06054 001174 OCT 1174
0752 06055 001175 OCT 1175
0753 06056 001176 OCT 1176
0754 06057 001177 OCT 1177
0755 06060 001270 OCT 1270
0756 06061 001271 OCT 1271
0757 06062 001272 OCT 1272
0758 06063 001273 OCT 1273
0759 06064 001274 OCT 1274
0760 06065 001275 OCT 1275
0761 06066 001276 OCT 1276
0762 06067 001277 OCT 1277
0763 06070 001370 OCT 1370
0764 06071 001371 OCT 1371
0765 06072 001372 OCT 1372
0766 06073 001373 OCT 1373
0767 06074 001374 OCT 1374
0768 06075 001375 OCT 1375
0769 06076 001376 OCT 1376
0770 06077 001377 OCT 1377
0771 06100 001470 OCT 1470
0772 06101 001471 OCT 1471
0773 06102 001472 OCT 1472
0774 06103 001473 OCT 1473
0775 06104 001474 OCT 1474
0776 06105 001475 OCT 1475
0777 06106 001476 OCT 1476
0778 06107 001477 OCT 1477
0779 06110 001570 OCT 1570
0780 06111 001571 OCT 1571
0781 06112 001572 OCT 1572
0782 06113 001573 OCT 1573
0783 06114 001574 OCT 1574
0784 06115 001575 OCT 1575

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PAGE 0018 #01

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0785 06116 001576 OCT 1576
0786 06117 001577 OCT 1577
0787 06120 001670 OCT 1670
0788 06121 001671 OCT 1671
0789 06122 001672 OCT 1672
0790 06123 001673 OCT 1673
0791 06124 001674 OCT 1674
0792 06125 001675 OCT 1675
0793 06126 001676 OCT 1676
0794 06127 001677 OCT 1677
0795 06130 001770 OCT 1770
0796 06131 001771 OCT 1771
0797 06132 001772 OCT 1772
0798 06133 001773 OCT 1773
0799 06134 001774 OCT 1774
0800 06135 001775 OCT 1775
0801 06136 001776 OCT 1776
0802 06137 001777 OCT 1777
0803 06140 000000 END OCT 0
0804 06141 000000 BAD OCT 0
0805 06142 000000 TADR OCT 0
0806 06143 004507 RPAT DEF P0028
0807 06144 004508 PAT DEF PAT1
0808 06145 004507 TPAT DEF P0028
0809 06146 004506 LPAT DEF PAT7
0810 06147 004508 CON1 DEF PAT1
0811 06150 005500 CON2 DEF PAS91
0812 06151 005500 INSR DEF PAS91
0813 06152 000000 TEMP OCT 0
0814 06153 000610 PAS1 DEF PAS92
0815 06154 000520 PAS2 DEF PAS93
0816 06155 000530 PAS3 DEF PAS94
0817 06156 000140 PAS4 DEF END
0818 06157 001505 ILL1 OCT 1505
0819 06160 001566 ILL2 OCT 1566
0820 06161 001575 ILL3 OCT 1575
0821 06162 001576 ILL4 OCT 1576
0822 06163 001665 ILL5 OCT 1665
0823 06164 001666 ILL6 OCT 1666
0824 06165 001675 ILL7 OCT 1675
0825 06166 001676 ILL8 OCT 1676
0826 06167 100000 SMASK OCT 100000
0827 06170 001777 AMSK1 OCT 1777
0828 06200 DRG 62000
0829 06200 002700 BASIC CLA,CCE A=B,E=1
0830 06201 000000 NOP
0831 06202 000010 SLA
0832 06203 102001 HLT 01 SLA FAILED
0833 06204 000400 CLB B=0
0834 06205 000400 CLE,SLB E=0
0835 06206 102001 HLT 01 SLB FAILED
0836 06207 002040 SEZ
0837 06210 102001 HLT 01 CLE FAILED
0838 06211 002300 CCE E=1
0839 06212 000050 CLE,SLA E=0
0840 06213 102001 HLT 01 A NOT =0

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PAGE 0019 #01

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0841 06214 002040 SEZ
0842 06215 102001 HLT 01 E NOT =0
0843 06216 002300 COE E=1
0844 06217 000400 CLE,SLB E=0
0845 06220 102001 HLT 01 B NOT =0
0846 06221 002040 SEZ
0847 06222 102001 HLT 01 E NOT =0
0848 06223 002040 INA A=1
0849 06224 000004 INB B=1
0850 06225 001000 ALS
0851 06226 000000 BLS
0852 06227 001100 ARS A=1
0853 06230 005100 BRS B=1
0854 06231 002011 SLA,RSS
0855 06232 102001 HLT 01 A NOT =1
0856 06233 000011 SLB,RSS
0857 06234 102001 HLT 01 B NOT =1
0858 06235 102001 LIA 01 A=077777
0859 06236 100501 LIB 01 B=077777
0860 06237 002004 INA A=100000
0861 06240 000004 INB B=100000
0862 06241 001000 ALS
0863 06242 000000 BLS
0864 06243 002021 SSA,RSS
0865 06244 102001 HLT 01 ALS FAILED
0866 06245 000021 SSB,RSS
0867 06246 102001 HLT 01 BLS FAILED
0868 06247 002404 CLA,INA A=1
0869 06250 000404 CLB,INB B=1
0870 06251 001200 RAL A=2
0871 06252 000200 RBL B=2
0872 06253 000010 SLA
0873 06254 102001 HLT 01 RAL FAILED
0874 06255 000010 SLB
0875 06256 102001 HLT 01 RBL FAILED
0876 06257 001300 RAR A=1
0877 06260 000300 RBR B=1
0878 06261 002011 SLA,RSS
0879 06262 102001 HLT 01 RAR FAILED
0880 06263 000011 SLB,RSS
0881 06264 102001 HLT 01 RBR FAILED
0882 06265 102501 LIA 01 A=077777
0883 06266 100501 LIB 01 B=077777
0884 06267 001000 ALS A=077776
0885 06270 000000 BLS B=077776
0886 06271 002030 SSA,SLA
0887 06272 102001 HLT 01 ALS FAILED
0888 06273 000030 SSB,SLB
0889 06274 102001 HLT 01 BLS FAILED
0890 06275 002404 CLA,INA A=1
0891 06276 000404 CLB,INB B=1
0892 06277 001500 ERA A=0
0893 06300 002041 SEZ,RSS E=1
0894 06301 102001 HLT 01 ERA FAILED
0895 06302 000040 CLE
0896 06303 005500 ERB B=0

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PAGE 0020 #01

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0897 06304 002041 SEZ,RSS E=1
0898 06305 102001 HLT 01 ERB FAILED
0899 06306 001600 ELA E=0,A=1
0900 06307 002040 SEZ
0901 06310 102001 HLT 01 ELA FAILED
0902 06311 002300 COE A=0,E=1
0903 06312 000600 ELB A=1,E=0
0904 06313 000011 SLB,RSS
0905 06314 102001 HLT 01 ELB FAILED
0906 06315 001700 ALF
0907 06316 001100 ARS
0908 06317 001100 ARS
0909 06320 001100 ARS
0910 06321 001100 ARS
0911 06322 002011 SLA,RSS
0912 06323 102001 HLT 01 ALF FAILED
0913 06324 000700 BLF
0914 06325 000100 BRS
0915 06326 005100 BRS
0916 06327 005100 BRS
0917 06330 005100 BRS
0918 06331 000011 SLB,RSS
0919 06332 102001 HLT 01 BLF FAILED
0920 06333 002404 CLA,INA
0921 06334 001110 ARS,SLA
0922 06335 102001 HLT 01 ARS,SLA FAILED
0923 06336 000404 CLB,INB
0924 06337 005110 BRS,SLB
0925 06340 102001 HLT 01 BRS,SLB FAILED
0926 06341 002700 CLA,CCE
0927 06342 001610 ELA,SLA
0928 06343 001510 ERA,SLA
0929 06344 102001 HLT 01 ELA,SLA OR ERA,SLA FAILED
0930 06345 001500 ERA A=1,E=0
0931 06346 002040 SEZ
0932 06347 102001 HLT 01 E DID NOT CLEAR AFTER ERA
0933 06350 000700 CLB,CCE B=0,E=1
0934 06351 000610 ELB,SLB B=1,E=0
0935 06352 005510 ERB,SLB B=0,F=1
0936 06353 102001 HLT 01 ELB,SLB OR ERB,SLB FAILED
0937 06354 005500 ERB B=15=1,E=0
0938 06355 002040 SEZ
0939 06356 102001 HLT 01 E DID NOT CLEAR AFTER ERB
0940 06357 003700 CCA,CCE A=177777,E=1
0941 06360 001500 ERA
0942 06361 002041 SEZ,RSS E=1
0943 06362 102001 HLT 01 E NOT SET AFTER ERA
0944 06363 001600 ELA
0945 06364 002041 SEZ,RSS E=1
0946 06365 102001 HLT 01 E NOT SET AFTER ELA
0947 06366 007700 CCB,CCE B=177777,E=1
0948 06367 000500 ERB
0949 06370 002041 SEZ,RSS E=1
0950 06371 102001 HLT 01 E NOT SET AFTER ERB
0951 06372 000600 ELB
0952 06373 002041 SEZ,RSS E=1

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Listing Shift-Rotate Instruction Test

Model 2114B
Volume Two

PAGE 0021 #01

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0053 06374 102001 HLT 01 E NOT SET AFTER ELB
0054 06375 062147 INIT LDA CON1
0055 06376 072144 STA PAT
0056 06377 062150 LDA CON2
0057 06400 072151 STA INSR
0058 06401 062143 LDA RPAT
0059 06402 072145 STA TPAT
0060 06403 020512 JMP AMOD1
0061 06404 162151 START LDA INSR,I
0062 06405 012170 AND AMASK1
0063 06406 052157 CPA ILL1
0064 06407 020531 JMP ILLC
0065 06410 052150 CPA ILL2
0066 06411 020531 JMP ILLC
0067 06412 052151 CPA ILL3
0068 06413 020531 JMP ILLC
0069 06414 052152 CPA ILL4
0070 06415 020531 JMP ILLC
0071 06416 052153 CPA ILL5
0072 06417 020531 JMP ILLC
0073 06420 052154 CPA ILL6
0074 06421 020531 JMP ILLC
0075 06422 052155 CPA ILL7
0076 06423 020531 JMP ILLC
0077 06424 052156 CPA ILL8
0078 06425 020531 JMP ILLC
0079 06426 162151 LDA INSR,I
0080 06427 080000 SETUP NOP
0081 06430 036151 ISZ INSR
0082 06431 000000 CHECK NOP
0083 06432 062144 BACK LDA PAT
0084 06433 052146 LDA LPAT
0085 06434 026441 JNP NINST
0086 06435 002004 INA
0087 06436 072144 STA PAT
0088 06437 036145 ISZ TPAT
0089 06440 026431 JNP CHECK
0090 06441 036145 NINST ISZ TPAT
0091 06442 062147 LDA CON1
0092 06443 072144 STA PAT
0093 06444 062151 LDA INSR
0094 06445 052153 CPA PAS1
0095 06446 026456 JNP NPASS
0096 06447 052154 CPA PAS2
0097 06450 026456 JNP NPASS
0098 06451 052155 CPA PAS3
0099 06452 026456 JNP NPASS
0100 06453 052156 CPA PAS4
0101 06454 026461 JNP MOD1
0102 06455 026404 JNP START
0103 06456 062143 NPASS LDA RPAT
0104 06457 072145 STA TPAT
0105 06460 026404 JNP START
0106 06461 062150 MOD1 LDA CON2
0107 06462 072151 STA INSR
0108 06463 062143 LDA RPAT

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PAGE 0022 #01

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1009 06464 072145 STA TPAT
1010 06465 062147 LDA CON1
1011 06466 072144 STA PAT
1012 06467 162151 LDA INSR,I
1013 06470 012605 AND RMASK
1014 06471 002002 SZA
1015 06472 020512 JNP AMOD1
1016 06473 162151 BMOD1 LDA INSR,I
1017 06474 032606 IOR BMASK
1018 06475 172151 STA INSR,I
1019 06476 036101 ISZ INSR
1020 06477 062151 LDA INSR
1021 06500 021136 CPA PAS4
1022 06501 020503 JNP FB
1023 06502 026473 JNP BMOD1
1024 06503 062150 FB LDA CON2
1025 06504 072151 STA INSR
1026 06505 062602 LDA JSB
1027 06506 072431 STA CHECK
1028 06507 062604 LDA SSHB1
1029 06510 072427 STA SETUP
1030 06511 026607 JNP ASPEC
1031 06512 162151 AMOD1 LDA INSR,I
1032 06513 012605 AND AMASK
1033 06514 172151 STA INSR,I
1034 06515 036151 ISZ INSR
1035 06516 062151 LDA INSR
1036 06517 052156 CPA PAS4
1037 06520 020522 JNP FA
1038 06521 020512 JNP AMOD1
1039 06522 062150 FA LDA CON2
1040 06523 072151 STA INSR
1041 06524 062601 LDA JSB
1042 06525 072431 STA CHECK
1043 06526 062603 LDA SSHA1
1044 06527 072427 STA SETUP
1045 06530 020746 JNP BSPEC
1046 06531 036151 ILLC ISZ INSR
1047 06532 062144 SEVEN LDA PAT
1048 06533 052146 CPA LPAT
1049 06534 020441 JNP NINST
1050 06535 036144 ISZ PAT
1051 06536 036145 ISZ TPAT
1052 06537 020532 JNP SEVEN
1053 06540 000000 T100A NOP
1054 06541 000000 CLE
1055 06542 162144 LDA PAT,I
1056 06543 000000 SHA1 NOP
1057 06544 000000 NOP
1058 06545 152145 CPA TPAT,I
1059 06546 120540 JNP T100A,I
1060 06547 010553 JSB ERROR
1061 06550 120540 JNP T100A,I
1062 06551 000000 T100B NOP
1063 06552 000040 CLE
1064 06553 166144 LDA PAT,I

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PAGE 0023 #01

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1065 06554 000000 SHB1 NOP
1066 06555 000000 NOP
1067 06556 000001 LDA I
1068 06557 150145 CPB TPAT,I
1069 06558 120551 JNP T100B,I
1070 06561 010503 JSB ERROR
1071 06562 120551 JNP T100B,I
1072 06563 000000 ERROR NOP
1073 06564 072141 STA BAD
1074 06565 162145 LDA TPAT,I
1075 06566 066141 LDB BAD
1076 06567 102001 HLT 01
1077 06570 062151 LDA INSR
1078 06571 042577 ADA SUB1
1079 06572 072142 STA TADR
1080 06573 162142 LDA TADR,I
1081 06574 160144 LDB PAT,I
1082 06575 102001 HLT 01
1083 06576 120563 JNP ERROR,I
1084 06577 177777 SUB1 OCT 177777
1085 06578 077777 SOVFC OCT 77777
1086 06581 010540 JSB JSB T100A
1087 06582 010551 JSB JSB T100B
1088 06583 072543 SSHA1 STA SHA1
1089 06584 072554 SSHB1 STA SHB1
1090 06585 173777 AMASK OCT 173777
1091 06586 004000 SHASK OCT 004000
1092 06587 002584 ASPEC CLA,CLE,INA
1093 06588 001565 ERA,CLE,ERA
1094 06589 002002 SZA
1095 06592 102001 HLT 01
1096 06593 002040 SEZ
1097 06594 102001 HLT 01
1098 06595 002404 CLA,INA
1099 06596 001566 ERA,CLE,ELA
1100 06597 002002 SZA
1101 06598 102001 HLT 01
1102 06599 002040 SEZ
1103 06602 102001 HLT 01
1104 06603 002040 CLA,INA
1105 06604 001575 ERA,CLE,SLA,ERA
1106 06605 102001 HLT 01
1107 06606 002002 SZA
1108 06607 102001 HLT 01
1109 06608 002040 SEZ
1110 06609 102001 HLT 01
1111 06610 002040 CLA,INA
1112 06611 001576 ERA,CLE,SLA,ELA
1113 06612 102001 HLT 01
1114 06613 002002 SZA
1115 06614 102001 HLT 01
1116 06615 002040 SEZ
1117 06616 102001 HLT 01
1118 06617 062157 LDA SHASK
1119 06618 001565 ERA,CLE,ERA
1120 06619 002002 SZA

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PAGE 0024 #01

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1121 06644 102001 HLT 01
1122 06645 002040 SEZ
1123 06646 102001 HLT 01
1124 06647 002167 LDA SHASK
1125 06650 001566 ERA,CLE,ELA
1126 06651 002002 SZA
1127 06652 102001 HLT 01
1128 06653 002040 SEZ
1129 06654 102001 HLT 01
1130 06655 062167 LDA SHASK
1131 06656 001675 ERA,CLE,SLA,ERA
1132 06657 102001 HLT 01
1133 06658 002002 SZA
1134 06661 102001 HLT 01
1135 06662 002040 SEZ
1136 06663 102001 HLT 01
1137 06664 062167 LDA SHASK
1138 06665 001675 ERA,CLE,SLA,ERA
1139 06666 102001 HLT 01
1140 06667 002002 SZA
1141 06670 102001 HLT 01
1142 06671 002040 SEZ
1143 06672 102001 HLT 01
1144 06673 103101 CLO
1145 06674 102101 STO
1146 06675 102301 SOS
1147 06676 102001 HLT 01
1148 06677 103301 SOS C
1149 06678 102001 HLT 01
1150 06679 102201 SOC
1151 06682 102001 HLT 01
1152 06683 102301 SOS
1153 06684 002001 R8S
1154 06685 102001 HLT 01
1155 06686 103101 CLO
1156 06687 062600 LDA SOVFC
1157 06688 002004 INA
1158 06689 103301 SOS C
1159 06692 103301 HLT 01
1160 06693 103101 CLO
1161 06694 062577 LDA SUB1
1162 06695 002004 INA
1163 06696 102201 SOC
1164 06697 102001 HLT 01
1165 06698 002002 SZA
1166 06699 103101 CLO
1167 06700 062077 LDA SUB1
1168 06701 042167 ADA SHASK
1169 06702 103301 SOS C
1170 06703 102001 HLT 01
1171 06704 103101 CLO
1172 06705 062600 LDA SOVFC
1173 06706 042167 ADA SHASK
1174 06707 102201 SOC
1175 06708 102001 HLT 01
1176 06709 002002 SZA

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Model 2114B Volume Two

Listing Shift-Rotate Instruction Test

PAGE 2225 #01

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1177 05732 103101 CLO CLEAR OVERFLOW INDICATOR
1178 05733 003400 CCA A=177777
1179 05734 042527 ADD SUB1 ADD 177777
1180 05735 102201 SOC SKIP ON OVERFLOW CLEAR
1181 05736 102001 HLT 01 ILLEGAL SET OF OVERFLOW
1182 05737 103101 CLO CLEAR OVERFLOW INDICATOR
1183 05740 002400 CLA A=000000
1184 05741 040000 ADA 0 ADD 000000
1185 05742 102201 SOC SKIP ON OVERFLOW CLEAR
1186 05743 102001 HLT 01 ILLEGAL SET OF OVERFLOW
1187 05744 000400 CLE
1188 05745 020404 JMP START
1189 05746 006504 BSPEC CLB,CLE,INB
1190 05747 005505 ERB,CLE,ERB 5565
1191 05750 006002 SZB
1192 05751 102001 HLT 01 ERB,CLE,ERB FAILED
1193 05752 002040 SEZ
1194 05753 102001 HLT 01 E NOT =0
1195 05754 000404 CLB,INB
1196 05755 005505 ERB,CLE,ELB 5566
1197 05756 006002 SZB
1198 05757 102001 HLT 01 ERB,CLE,ELB FAILED
1199 05760 002040 SEZ
1200 05761 102001 HLT 01 E NOT =0
1201 05762 000404 CLB,INB
1202 05763 005575 ERB,CLE,SLB,ERB 5575
1203 05764 102001 HLT 01 SLB FAILED
1204 05765 006302 SZB
1205 05766 102001 HLT 01 ERB,CLE,SLB,ERB FAILED
1206 05767 002040 SEZ
1207 05770 102001 HLT 01 E NOT =0
1208 05771 000404 CLB,INB
1209 05772 005576 ERB,CLE,SLB,ELB 5576
1210 05773 102001 HLT 01 SLB FAILED
1211 05774 006002 SZB
1212 05775 102001 HLT 01 ERB,CLE,SLB,ELB FAILED
1213 05776 002040 SEZ
1214 05777 102001 HLT 01 E NOT =0
1215 07000 006167 LDB SMASK 100000
1216 07001 005665 ELB,CLE,ERB 5665
1217 07002 006002 SZB
1218 07003 102001 HLT 01 ELB,CLE,ERB FAILED
1219 07004 002040 SEZ
1220 07005 102001 HLT 01 E NOT =0
1221 07006 006167 LDB SMASK 100000
1222 07007 005666 ELB,CLE,ELB 5666
1223 07010 006002 SZB
1224 07011 102001 HLT 01 ELB,CLE,ELB FAILED
1225 07012 002040 SEZ
1226 07013 102001 HLT 01 E NOT =0
1227 07014 006167 LDB SMASK 100000
1228 07015 005675 ELB,CLE,SLB,ERB 5675
1229 07016 102001 HLT 01 SLB FAILED
1230 07017 006002 SZB
1231 07020 102001 HLT 01 ELB,CLE,SLB,ERB FAILED
1232 07021 002040 SEZ

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PAGE 0026 #01

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1233 07022 102001 HLT 01 E NOT
1234 07023 006167 LDB SMASK 100000
1235 07024 005675 ELB,CLE,SLB,ERB 5676
1236 07025 102001 HLT 01 SLB FAILED
1237 07026 006002 SZB
1238 07027 102001 HLT 01 ELB,CLE,SLB,ERB FAILED
1239 07030 002040 SEZ
1240 07031 102001 HLT 01 E NOT =0
1241 07032 103101 CLO CLEAR OVERFLOW INDICATOR
1242 07033 102101 STO SET OVERFLOW INDICATOR
1243 07034 102301 SOS SKIP ON OVERFLOW SET
1244 07035 102001 HLT 01 STO OR SOS FAILED
1245 07036 103301 SOS C SKIP ON OVERFLOW SET AND CLEAR
1246 07037 102001 HLT 01 SOS,C FAILED
1247 07040 102201 SOC SKIP ON OVERFLOW CLEAR
1248 07041 102001 HLT 01 SOS,C OR SOC MALFUNCTION
1249 07042 102301 SOS SKIP ON OVERFLOW SET
1250 07043 002001 R3S SHOULD NOT SKIP
1251 07044 102001 HLT 01 SOS SKIP WHEN OVERFLOW CLEARED
1252 07045 103101 CLO CLEAR OVERFLOW INDICATOR
1253 07046 006600 LDB SOVFC B=077777
1254 07047 006004 INB B=100000-OVERFLOW SHOULD BE SET
1255 07050 103301 SOS C SKIP ON OVERFLOW SET
1256 07051 102001 HLT 01 INB DID NOT SET OVERFLOW
1257 07052 103101 CLO CLEAR OVERFLOW INDICATOR
1258 07053 006577 LDB SUB1 B=177777
1259 07054 006004 INB B=000000,E=1-OVERFLOW CLEAR
1260 07055 102201 SOC SKIP ON OVERFLOW CLEAR
1261 07056 102001 HLT 01 UNLIKE SIGNS CAUSED OVERFLOW TO
1262 BE SET
1263 07057 103101 CLO CLEAR OVERFLOW INDICATOR
1264 07060 006577 LDB SUB1 B=177777
1265 07061 006167 ADD SMASK ADD-100000
1266 07062 103301 SOS C SKIP ON OVERFLOW SET
1267 07063 102001 HLT 01 ADD DID NOT SET OVERFLOW
1268 07064 103101 CLO CLEAR OVERFLOW INDICATOR
1269 07065 006600 LDB SOVFC B=077777
1270 07066 006167 ADD SMASK ADD 100000
1271 07067 102201 SOC SKIP ON OVERFLOW CLEAR
1272 07070 102001 HLT 01 UNLIKE SIGNS CAUSED OVERFLOW TO
1273 BE SET
1274 07071 103101 CLO CLEAR OVERFLOW INDICATOR
1275 07072 007400 CCB B=177777
1276 07073 006577 ADD SUB1 ADD 177777
1277 07074 102201 SOC SKIP ON OVERFLOW CLEAR
1278 07075 102001 HLT 01 ILLEGAL SET OF OVERFLOW
1279 07076 103101 CLO CLEAR OVERFLOW INDICATOR
1280 07077 006400 CLB B=000000
1281 07100 044001 ADD 1 ADD 000000
1282 07101 102201 SOC SKIP ON OVERFLOW CLEAR
1283 07102 102001 HLT 01 ILLEGAL SET OF OVERFLOW
1284 07103 000400 CLE
1285 07104 020404 JMP START
1286 JND

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** NO ERRORS*