

9MLTA

SPECIAL FEATURE PROGRAM FOR EIGHT SENSE LIGHTS

RPQ E87449

A. PURPOSE OF TEST

THIS DIAGNOSTIC TESTS FOR THE PROPER FUNCTIONING OF EIGHT SENSE LIGHTS.

B. METHOD

A DESCRIPTION OF THE ROUTINE USED FOLLOWS.

1. 0032           TURN ALL SENSE LIGHTS OFF AND TEST EACH LIGHT FOR OFF STATUS.
2. 0123           TURN EACH SENSE LIGHT ON INDIVIDUALLY AND TEST EACH LIGHT FOR ON STATUS. EACH LIGHT SHOULD BE TURNED OFF WHEN IT IS TESTED FOR ON STATUS.
3. 0234           ALL SENSE LIGHTS SHOULD BE IN OFF STATUS BECAUSE OF THE PREVIOUS ROUTINE. TEST EACH SENSE LIGHT LIGHT FOR OFF STATUS.
4. 0324           TURN EACH SENSE LIGHT ON INDIVIDUALLY AND TURN IT OFF AGAIN USING THE SLF INSTRUCTION. TEST THE LIGHT FOR OFF STATUS.
5. 0434           TURN EACH SENSE LIGHT OFF INDIVIDUALLY. TEST EACH LIGHT FOR IMPROPER ON STATUS RESULTING FROM TURNING ON ANOTHER SENSE LIGHT.
6. 0545           TURN EACH SENSE LIGHT ON INDIVIDUALLY. TEST EACH LIGHT FOR IMPROPER OFF STATUS RESULTING FROM TURNING OFF ANOTHER SENSE LIGHT.
7. 0675           TEST THE NOP INSTRUCTION FOR IMPROPER INTERPRETATION AS THE SLT INSTRUCTION.
8. 0710           TURN ALL SENSE LIGHTS ON AND HALT UNDER SWT 5 CONTROL.

C. AREA OF MACHINE REQUIRED.

1. MAIN FRAME
2. CORE STORAGE 0030 TO 0730
3. CARD READER
4. DSU

D. PROGRAM CONTROL

- |         |         |                        |
|---------|---------|------------------------|
| 1. DECK | 000     | 9LD01A LOW END LOADER  |
|         | 001-021 | 9MLTA DIAGNOSTIC       |
|         | 022     | TRANSFER CARD TRA 0030 |

## 2. SENSE SWITCHES

SWT 1 UP - PROCEED TO NEXT ROUTINE.  
SWT 1 DN - REPEAT ROUTINE.

SWT 2 UP - HALT ON ERROR.  
SWT 2 DN - BY PASS ERROR STOP AND TEST SWT 1.

SWT 5 UP - BYPASS TURNING ALL LIGHTS ON AND HALTING. TEST SWT 6.  
SWT 5 DN - TURN ALL SENSE LIGHTS ON AND HALT.

SWT 6 UP - READ IN NEXT DIAGNOSTIC  
SWT 6 DN - REPEAT 9MLTA.

## E. NORMAL STOP IN SWT 5 DN

0720 - ALL SENSE LIGHTS SHOULD BE ON. PRESS START TO TEST SWT 6.

## F. ERROR STOPS

EACH OF THE ROUTINES 1-7, AS DESCRIBED IN SECTION 8 OF THIS WRITE UP HAS ONE ERROR STOP FOR EACH SENSE LIGHT. ROUTINE 8 HAS ONE ERROR STOP. IF AN ERROR STOP OCCURS, REFER TO THE PROGRAM LISTING FOR THE CONDITION OF THE ERROR.

IF SWT 1 AND SWT 2 ARE UP WHEN AN ERROR STOP OCCURS, PRESSING START AT THIS TIME WILL CAUSE THE PROGRAM TO CONTINUE ON FROM THE ERROR STOP LOCATION.

IF AN ERROR STOP OCCURS THE MACHINE CAN BE SET TO LOOP AT THAT POINT IN THE PROGRAM BY DEPRESSING SWT 1 AND SWT 2 AND PRESSING START.

## G. COMMENTS

IF SWT 5 IS DOWN THE PROGRAM WILL HALT AT 0347 WITH ALL SENSE LIGHTS ON. THIS ALLOWS THE OPERATOR TO OBSERVE THE PROPER OPERATION OF THE CONSOLE NEONS. PRESSING START AT THIS TIME WILL CAUSE THE MACHINE TO TEST SWT 6.

\* SPECIAL FEATURE PROGRAM FOR EIGHT SENSE LIGHTS

\* RPQ E87449

00030 ORG 24

00030 0500 00 0 00723 START CLA SWT6+2 PORT  
00031 0601 00 0 00000 STO 0 RESTART

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\* TURN LITES OFF THEN TEST EACH LITE FOR OFF CONDITION

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00032 0760 00 0 00140 SLF TURN LITES OFF

\* TEST SENSE LITE 1 FOR OFF STATUS

00033 -0760 00 0 00141 SLT1 SLT 1 TEST LITE 1  
00034 0020 00 0 00037 TRA A OK SHOULD BE OFF  
00035 0760 00 0 00162 SWT 2 SENSE SWITCH 2  
00036 0420 00 0 00000 HPR LITE 1 ON SHOULD BE OFF  
00037 0760 00 0 00161 A SWT 1 SENSE SWITCH 1  
00040 0020 00 0 00042 TRA SLT2 TEST NEXT LITE  
00041 0020 00 0 00033 TRA SLT1 REPEAT SLT 1

\* TEST SENSE LITE 2 FOR OFF STATUS

00042 -0760 00 0 00142 SLT2 SLT 2 TEST LITE 2  
00043 0020 00 0 00046 TRA A1 OK SHOULD BE OFF  
00044 0760 00 0 00162 SWT 2 SENSE SWITCH 2  
00045 0420 00 0 00000 HPR LITE 2 ON SHOULD BE OFF  
00046 0760 00 0 00161 A1 SWT 1 SENSE SWITCH 1  
00047 0020 00 0 00051 TRA SLT3 TEST NEXT LITE  
00050 0020 00 0 00042 TRA SLT2 REPEAT SLT 2

\* TEST SENSE LITE 3 FOR OFF STATUS

00051 -0760 00 0 00143 SLT3 SLT 3 TEST LITE 3  
00052 0020 00 0 00055 TRA A3 OK SHOULD BE OFF  
00053 0760 00 0 00162 SWT 2 SENSE SWITCH 2  
00054 0420 00 0 00000 HPR LITE 3 ON SHOULD BE OFF  
00055 0760 00 0 00161 A3 SWT 1 SENSE SWITCH 1  
00056 0020 00 0 00060 TRA SLT4 TEST NEXT LITE  
00057 0020 00 0 00051 TRA SLT3 REPEAT SLT 3

\* TEST SENSE LITE 4 FOR OFF STATUS

00060 -0760 00 0 00144 SLT4 SLT 4 TEST LITE 4  
00061 0020 00 0 00064 TRA A4 OK SHOULD BE OFF  
00062 0760 00 0 00162 SWT 2 SENSE SWITCH 2  
00063 0420 00 0 00000 HPR LITE 4 ON SHOULD BE OFF

00064	0760	00	0	00161	A4	SWT 1	SENSE SWITCH 1
00065	0020	00	0	00067		TRA SLT5	TEST NEXT LITE
00066	0020	00	0	00060		TRA SLT4	REPEAT SLT 4

\* TEST SENSE LITE 5 FOR OFF STATUS

00067	-0760	00	0	00145	SLT5	SLT 5	TEST LITE 5
00070	0020	00	0	00073		TRA A5	OK SHOULD BE OFF
00071	0760	00	0	00162		SWT 2	SENSE SWITCH 2
00072	0420	00	0	00000		HPR	LITE 5 ON SHOULD BE OFF
00073	0760	00	0	00161	A5	SWT 1	SENSE SWITCH 1
00074	0020	00	0	00076		TRA SLT6	TEST NEXT LITE
00075	0020	00	0	00067		TRA SLT5	REPEAT SLT 5

\* TEST SENSE LITE 6 FOR OFF STATUS

00076	-0760	00	0	00146	SLT6	SLT 6	TEST LITE 6
00077	0020	00	0	00102		TRA A6	OK SHOULD BE OFF
00100	0760	00	0	00162		SWT 2	SENSE SWITCH 2
00101	0420	00	0	00000		HPR	LITE 6 ON SHOULD BE OFF
00102	0760	00	0	00161	A6	SWT 1	SENSE SWITCH 1
00103	0020	00	0	00105		TRA SLT7	TEST NEXT LITE
00104	0020	00	0	00076		TRA SLT6	REPEAT SLT 6

\* TEST SENSE LITE 7 FOR OFF STATUS

00105	-0760	00	0	00147	SLT7	SLT 7	TEST LITE 7
00106	0020	00	0	00111		TRA A7	OK SHOULD BE OFF
00107	0760	00	0	00162		SWT 2	SENSE SWITCH 2
00110	0420	00	0	00000		HPR	LITE 7 ON SHOULD BE OFF
00111	0760	00	0	00161	A7	SWT 1	SENSE SWITCH 1
00112	0020	00	0	00114		TRA SLT8	TEST NEXT LITE
00113	0020	00	0	00105		TRA SLT7	REPEAT SLT 7

\* TEST SENSE LITE 8 FOR OFF STATUS

00114	-0760	00	0	00150	SLT8	SLT 8	TEST LITE 8
00115	0020	00	0	00120		TRA A8	OK SHOULD BE OFF
00116	0760	00	0	00162		SWT 2	SENSE SWITCH 2
00117	0420	00	0	00000		HPR	LITE 7 ON SHOULD BE OFF
00120	0760	00	0	00161	A8	SWT 1	SENSE SWITCH 1
00121	0020	00	0	00123		TRA SLN	TRANSFER TO NEXT ROUTINE
00122	0020	00	0	00114		TRA SLT8	REPEAT SLT 8

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\* TEST SENSE LITES ON AND SENSE OFF

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\* TEST SENSE LITE 1

00123	-0760	00	0	00140	SLN	SLT	BE SURE ALL LITES ARE OFF
00124	0760	00	0	00141	SLN1	SLN 1	TURN SENSE LITE 1 ON
00125	-0760	00	0	00141		SLT 1	TURN SENSE LITE 1 OFF

00126	0020	00	0	00130		TRA A10	ERROR-LITE NOT ON
00127	0020	00	0	00132		TRA A11	OK LITE ON
00130	0760	00	0	00162	A10	SWT 2	SSW 2
00131	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00132	0760	00	0	00161	A11	SWT 1	SSW 1
00133	0020	00	0	00135		TRA SLN2	TEST NEXT LITE
00134	0020	00	0	00124		TRA SLN1	REPEAT SLN

\* TEST SENSE LITE 2

00135	0760	00	0	00142	SLN2	SLN 2	TURN SENSE LITE 2 ON
00136	-0760	00	0	00142		SLT 2	TURN SENSE LITE 2 OFF
00137	0020	00	0	00141		TRA A12	ERROR-LITE NOT ON
00140	0020	00	0	00143		TRA A13	OK LITE ON
00141	0760	00	0	00162	A12	SWT 2	SSW 2
00142	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00143	0760	00	0	00161	A13	SWT 1	SSW 1
00144	0020	00	0	00146		TRA SLN3	TEST NEXT LITE
00145	0020	00	0	00135		TRA SLN2	REPEAT SLN 2

\* TEST SENSE LITE 3

00146	0760	00	0	00143	SLN3	SLN 3	TURN SENSE LITE 2 ON
00147	-0760	00	0	00143		SLT 3	TURN SENSE LITE 3 OFF
00150	0020	00	0	00152		TRA A14	ERROR-LITE NOT ON
00151	0020	00	0	00154		TRA A15	OK LITE ON
00152	0760	00	0	00162	A14	SWT 2	SSW 2
00153	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00154	0760	00	0	00161	A15	SWT 1	SSW 1
00155	0020	00	0	00157		TRA SLN4	TEST NEXT LITE
00156	0020	00	0	00146		TRA SLN3	REPEAT SLN 3

\* TEST SENSE LITE 4

00157	0760	00	0	00144	SLN4	SLN 4	TURN SENSE LITE 4 ON
00160	-0760	00	0	00144		SLT 4	TURN SENSE LITE 4 OFF
00161	0020	00	0	00163		TRA A16	ERROR-LITE NOT ON
00162	0020	00	0	00165		TRA A17	OK LITE ON
00163	0760	00	0	00162	A16	SWT 2	SSW 2
00164	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00165	0760	00	0	00161	A17	SWT 1	SSW 1
00166	0020	00	0	00170		TRA SLN5	TEST NEXT LITE
00167	0020	00	0	00157		TRA SLN4	REPEAT SLN 4

\* TEST SENSE LITE 5

00170	0760	00	0	00145	SLN5	SLN 5	TURN SENSE LITE 5 ON
00171	-0760	00	0	00145		SLT 5	TURN SENSE LITE 5 OFF
00172	0020	00	0	00174		TRA A18	ERROR-LITE NOT ON
00173	0020	00	0	00176		TRA A19	OK LITE ON
00174	0760	00	0	00162	A18	SWT 2	SSW 2
00175	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00176	0760	00	0	00161	A19	SWT 1	SSW 1
00177	0020	00	0	00201		TRA SLN6	TEST NEXT LITE
00200	0020	00	0	00170		TRA SLN5	REPEAT SLN 5

\* TEST SENSE LITE 6

00201	0760	00	0	00146	SLN6	SLN 6	TURN SENSE LITE 6 ON
00202	-0760	00	0	00146		SLT 6	TURN SENSE LITE 6 OFF
00203	0020	00	0	00205		TRA A20	ERROR-LITE NOT ON
00204	0020	00	0	00207		TRA A21	OK LITE ON
00205	0760	00	0	00162	A20	SWT 2	SSW 2
00206	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00207	0760	00	0	00161	A21	SWT 1	SSW 1
00210	0020	00	0	00212		TRA SLN7	TEST NEXT LITE
00211	0020	00	0	00201		TRA SLN6	REPEAT SLN 6

\* TEST SENSE LITE 7

00212	0760	00	0	00147	SLN7	SLN 7	TURN SENSE LITE 7 ON
00213	-0760	00	0	00147		SLT 7	TURN SENSE LITE 7 OFF
00214	0020	00	0	00216		TRA A22	ERROR-LITE NOT ON
00215	0020	00	0	00220		TRA A23	OK LITE ON
00216	0760	00	0	00162	A22	SWT 2	SSW 2
00217	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00220	0760	00	0	00161	A23	SWT 1	SSW 1
00221	0020	00	0	00223		TRA SLN8	TEST NEXT LITE
00222	0020	00	0	00212		TRA SLN7	REPEAT SLN 7

\* TEST SENSE LITE 8

00223	0760	00	0	00150	SLN8	SLN 8	TURN SENSE LITE 8 ON
00224	-0760	00	0	00150		SLT 8	TURN SENSE LITE 8 OFF
00225	0020	00	0	00227		TRA A24	ERROR-LITE NOT ON
00226	0020	00	0	00231		TRA A25	OK LITE ON
00227	0760	00	0	00162	A24	SWT 2	SSW 2
00230	0420	00	0	00000		HPR	LITE OFF SHOULD BE ON
00231	0760	00	0	00161	A25	SWT 1	SSW 1
00232	0020	00	0	00234		TRA SLTA1	TRANSFER TO NEXT ROUTINE
00233	0020	00	0	00223		TRA SLN8	REPEAT SLN 8

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\*TEST SLT TO SEE THAT LAST ROUTINE TURNED  
\*OFF EACH SENSE LITE

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\* TEST SENSE LITE 1

00234	-0760	00	0	00141	SLTA1	SLT 1	TEST LITE 1
00235	0020	00	0	00240		TRA A26	OK SHOULD BE OFF
00236	0760	00	0	00162		SWT 2	SSW 2
00237	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00240	0760	00	0	00161	A26	SWT 1	SSW 1
00241	0020	00	0	00243		TRA SLTA2	TEST NEXT LITE
00242	0020	00	0	00234		TRA SLTA1	REPEAT SLT 1

\* TEST SENSE LITE 2

00243	-0760	00	0	00142	SLTA2	SLT 2	TEST LITE 2
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00244	0020	00	0	00247		TRA A27	OK SHOULD BE OFF
00245	0760	00	0	00162		SWT 2	SSW 2
00246	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00247	0760	00	0	00161	A27	SWT 1	SSW 1
00250	0020	00	0	00252		TRA SLTA3	TEST NEXT LITE
00251	0020	00	0	00243		TRA SLTA2	REPEAT SLT 2

\* TEST SENSE LITE 3

00252	-0760	00	0	00143	SLTA3	SLT 3	TEST LITE 3
00253	0020	00	0	00256		TRA A28	OK SHOULD BE OFF
00254	0760	00	0	00162		SWT 2	SSW 2
00255	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00256	0760	00	0	00161	A28	SWT 1	SSW 1
00257	0020	00	0	00261		TRA SLTA4	TEST NEXT LITE
00260	0020	00	0	00252		TRA SLTA3	REPEAT SLT 3

\* TEST SENSE LITE 4

00261	-0760	00	0	00151	SLTA4	SLT 41	TEST LITE 4
00262	0020	00	0	00265		TRA A29	OK SHOULD BE OFF
00263	0760	00	0	00162		SWT 2	SSW 2
00264	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00265	0760	00	0	00161	A29	SWT 1	SSW 1
00266	0020	00	0	00270		TRA SLTA5	TEST NEXT LITE
00267	0020	00	0	00261		TRA SLTA4	REPEAT SLT 4

\* TEST SENSE LITE 5

00270	-0760	00	0	00145	SLTA5	SLT 5	TEST LITE 5
00271	0020	00	0	00274		TRA A30	OK SHOULD BE OFF
00272	0760	00	0	00162		SWT 2	SSW 2
00273	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00274	0760	00	0	00161	A30	SWT 1	SSW 1
00275	0020	00	0	00277		TRA SLTA6	TEST NEXT LITE
00276	0020	00	0	00270		TRA SLTA5	REPEAT SLT 5

\* TEST SENSE LITE 6

00277	-0760	00	0	00146	SLTA6	SLT 6	TEST LITE 6
00300	0020	00	0	00303		TRA A31	OK SHOULD BE OFF
00301	0760	00	0	00162		SWT 2	SSW 2
00302	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00303	0760	00	0	00161	A31	SWT 1	SSW 1
00304	0020	00	0	00306		TRA SLTA7	TEST NEXT LITE
00305	0020	00	0	00277		TRA SLTA6	REPEAT SLT 6

\* TEST SENSE LITE 7

00306	-0760	00	0	00147	SLTA7	SLT 7	TEST LITE 7
00307	0020	00	0	00312		TRA A32	OK SHOULD BE OFF
00310	0760	00	0	00162		SWT 2	SSW 2
00311	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00312	0760	00	0	00161	A32	SWT 1	SSW 1
00313	0020	00	0	00315		TRA SLTA8	TEST NEXT LITE
00314	0020	00	0	00306		TRA SLTA7	REPEAT SLT 7

\* TEST SENSE LITE 8

00315	-0760	00	0	00150	SLTA8	SLT 8	TEST LITE 8
00316	0020	00	0	00321		TRA A33	OK SHOULD BE OFF
00317	0760	00	0	00162		SWT 2	SSW 2
00320	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00321	0760	00	0	00161	A33	SWT 1	SSW 1
00322	0020	00	0	00324		TRA SLF1	PROCEED TO NEXT ROUTINE
00323	0020	00	0	00315		TRA SLTA8	REPEAT SLT 8

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\*TEST SLF TO TURN OFF ALL SENSE LITES

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\*TEST SENSE LITE 1

00324	0760	00	0	00141	SLF1	SLN 1	TURN LITE 1 ON
00325	0760	00	0	00140		SLF	TURN LITE 1 OFF
00326	-0760	00	0	00141		SLT 1	TEST LITE 1
00327	0020	00	0	00332		TRA A34	OK LITE OFF
00330	0760	00	0	00162		SWT 2	SSW 2
00331	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00332	0760	00	0	00161	A34	SWT 1	SSW 1
00333	0020	00	0	00335		TRA SLF2	TEST NEXT LITE
00334	0020	00	0	00324		TRA SLF1	REPEAT SLF 1

\*TEST SENSE LITE 2

00335	0760	00	0	00142	SLF2	SLN 2	TURN LITE 2 ON
00336	0760	00	0	00140		SLF	TURN LITE 2 OFF
00337	-0760	00	0	00142		SLT 2	TEST LITE 2
00340	0020	00	0	00343		TRA A35	OK LITE OFF
00341	0760	00	0	00162		SWT 2	SSW 2
00342	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00343	0760	00	0	00161	A35	SWT 1	SSW 1
00344	0020	00	0	00346		TRA SLF3	TEST NEXT LITE
00345	0020	00	0	00335		TRA SLF2	REPEAT SLF 2

\*TEST SENSE LITE 3

00346	0760	00	0	00143	SLF3	SLN 3	TURN LITE 3 ON
00347	0760	00	0	00140		SLF	TURN LITE 3 OFF
00350	-0760	00	0	00143		SLT 3	TEST LITE 3
00351	0020	00	0	00354		TRA A36	OK LITE OFF
00352	0760	00	0	00162		SWT 2	SSW 2
00353	0420	00	0	00000		HPR	LITE ON SHOULD BE OFF
00354	0760	00	0	00161	A36	SWT 1	SSW 1
00355	0020	00	0	00357		TRA SLF4	TEST NEXT LITE
00356	0020	00	0	00346		TRA SLF3	REPEAT SLF 3

\*TEST SENSE LITE 4

00357	0760	00	0	00144	SLF4	SLN 4	TURN LITE 4 ON
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00360	0760	00	0	00140		SLF		TURN LITE 4 OFF
00361	-0760	00	0	00144		SLT	4	TEST LITE 4
00362	0020	00	0	00365		TRA	A37	OK LITE OFF
00363	0760	00	0	00162		SWT	2	SSW 2
00364	0420	00	0	00000		HPR		LITE ON SHOULD BE OFF
00365	0760	00	0	00161	A37	SWT	1	SSW 1
00366	0020	00	0	00370		TRA	SLF5	TEST NEXT LITE
00367	0020	00	0	00357		TRA	SLF4	REPEAT SLF 4

\*TEST SENSE LITE 5

00370	0760	00	0	00145	SLF5	SLN	5	TURN LITE 5 ON
00371	0760	00	0	00140		SLF		TURN LITE 5 OFF
00372	-0760	00	0	00145		SLT	5	TEST LITE 5
00373	0020	00	0	00376		TRA	A38	OK LITE OFF
00374	0760	00	0	00162		SWT	2	SSW 2
00375	0420	00	0	00000		HPR		LITE ON SHOULD BE OFF
00376	0760	00	0	00161	A38	SWT	1	SSW 1
00377	0020	00	0	00401		TRA	SLF6	TEST NEXT LITE
00400	0020	00	0	00370		TRA	SLF5	REPEAT SLF 5

\*TEST SENSE LITE 6

00401	0760	00	0	00146	SLF6	SLN	6	TURN LITE 6 ON
00402	0760	00	0	00140		SLF		TURN LITE 6 OFF
00403	-0760	00	0	00146		SLT	6	TEST LITE 6
00404	0020	00	0	00407		TRA	A39	OK LITE OFF
00405	0760	00	0	00162		SWT	2	SSW 2
00406	0420	00	0	00000		HPR		LITE ON SHOULD BE OFF
00407	0760	00	0	00161	A39	SWT	1	SSW 1
00410	0020	00	0	00412		TRA	SLF7	TEST NEXT LITE
00411	0020	00	0	00401		TRA	SLF6	REPEAT SLF6

\*TEST SENSE LITE 7

00412	0760	00	0	00147	SLF7	SLN	7	TURN LITE 7 ON
00413	0760	00	0	00140		SLF		TURN LITE 7 OFF
00414	-0760	00	0	00147		SLT	7	TEST LITE 7
00415	0020	00	0	00420		TRA	A40	OK LITE OFF
00416	0760	00	0	00162		SWT	2	SSW 2
00417	0420	00	0	00000		HPR		LITE ON SHOULD BE OFF
00420	0760	00	0	00161	A40	SWT	1	SSW 1
00421	0020	00	0	00423		TRA	SLF8	TEST NEXT LITE
00422	0020	00	0	00412		TRA	SLF7	REPEAT SLF7

\*TEST SENSE LITE 8

00423	0760	00	0	00150	SLF8	SLN	8	TURN LITE 8 ON
00424	0760	00	0	00140		SLF		TURN LITE 8 OFF
00425	-0760	00	0	00150		SLT	8	TEST LITE 8
00426	0020	00	0	00431		TRA	A41	OK LITE OFF
00427	0760	00	0	00162		SWT	2	SSW 2
00430	0420	00	0	00000		HPR		LITE ON SHOULD BE OFF
00431	0760	00	0	00161	A41	SWT	1	SSW 1
00432	0020	00	0	00434		TRA	SLNA	GO TO NEXT ROUTINE
00433	0020	00	0	00423		TRA	SLF8	REPEAT SLF8

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\*TEST SLN TO SEE THAT TURNING ON ONE LITE  
\*DOES NOT TURN ON ANY OTHER LITE

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00434 0760 00 0 00140 SLNA SLF TURN ALL OFF IF ANY ON

\*TEST SENSE LITE 1

00435 0760 00 0 00140 SLNA1 SLF TURN LITE 1 OFF  
00436 0760 00 0 00142 SLN 2 TURN LITE 2 ON  
00437 -0760 00 0 00141 SLT 1 TEST LITE 1  
00440 0020 00 0 00443 TRA A42 OK LITE 1 OFF  
00441 0760 00 0 00162 SWT 2 SSW 2  
00442 0420 00 0 00000 HPR LITE 1 TURNED ON BY SLN 2  
00443 0760 00 0 00161 A42 SWT 1 SSW 1  
00444 0020 00 0 00446 TRA SLNA2 TEST NEXT LITE  
00445 0020 00 0 00435 TRA SLNA1 REPEAT SLNA1

\*TEST SENSE LITE 2

00446 0760 00 0 00140 SLNA2 SLF TURN LITE 2 OFF  
00447 0760 00 0 00141 SLN 1 TURN LITE 1 ON  
00450 -0760 00 0 00142 SLT 2 TEST LITE 2  
00451 0020 00 0 00454 TRA A43 OK LITE OFF  
00452 0760 00 0 00162 SWT 2 SSW 2  
00453 0420 00 0 00000 HPR LITE 2 TURNED ON BY SLN 1  
00454 0760 00 0 00161 A43 SWT 1 SSW 1  
00455 0020 00 0 00457 TRA SLNA3 TEST NEXT LITE  
00456 0020 00 0 00446 TRA SLNA2 REPEAT SLNA2

\*TEST SENSE LITE 3

00457 0760 00 0 00140 SLNA3 SLF TURN LITE 3 OFF  
00460 0760 00 0 00141 SLN 1 TURN LITE 1 ON  
00461 -0760 00 0 00143 SLT 3 TEST LITE 3  
00462 0020 00 0 00465 TRA A44 OK LITE 3 OFF  
00463 0760 00 0 00162 SWT 2 SSW 2  
00464 0420 00 0 00000 HPR LITE 3 TURNED ON BY SLN 1  
00465 0760 00 0 00161 A44 SWT 1 SSW 1  
00466 0020 00 0 00470 TRA SLNA4 TEST NEXT LITE  
00467 0020 00 0 00457 TRA SLNA3 REPEAT SLNA3

\*TEST SENSE LITE 4

00470 0760 00 0 00140 SLNA4 SLF TURN LITE 4 OFF  
00471 0760 00 0 00141 SLN 1 TURN LITE 1 ON  
00472 -0760 00 0 00144 SLT 4 TEST LITE 4  
00473 0020 00 0 00476 TRA A45 OK LITE 1 OFF  
00474 0760 00 0 00162 SWT 2 SSW 2  
00475 0420 00 0 00000 HPR LITE 4 TURNED ON BY SLN 1  
00476 0760 00 0 00161 A45 SWT 1 SSW 1  
00477 0020 00 0 00501 TRA SLNA5 TEST NEXT LITE

00500 0020 00 0 00470           TRA SLNA4           REPEAT SLNA4

\*TEST SENSE LITE 5

00501 0760 00 0 00140   SLNA5   SLF           TURN LITE 5 OFF  
00502 0760 00 0 00146           SLN 6       TURN LITE 6 ON  
00503 -0760 00 0 00145           SLT 5       TEST LITE 6  
00504 0020 00 0 00507           TRA A46     OK LITE 5 OFF  
00505 0760 00 0 00162           SWT 2       SSW 2  
00506 0420 00 0 00000           HPR         LITE 5 TURNED ON BY SLN 6  
00507 0760 00 0 00161   A46     SWT 1       SSW 1  
00510 0020 00 0 00512           TRA SLNA6   TEST NEXT LITE  
00511 0020 00 0 00501           TRA SLNA5   REPEAT SLNA5

\*TEST SENSE LITE 6

00512 0760 00 0 00140   SLNA6   SLF           TURN LITE 6 OFF  
00513 0760 00 0 00142           SLN 2       TURN LITE 5 ON  
00514 -0760 00 0 00141           SLT 1       TEST LITE 6  
00515 0020 00 0 00520           TRA A47     OK LITE 6 OFF  
00516 0760 00 0 00162           SWT 2       SSW 2  
00517 0420 00 0 00000           HPR         LITE 6 TURNED ON BY SLN 5  
00520 0760 00 0 00161   A47     SWT 1       SSW 1  
00521 0020 00 0 00523           TRA SLNA7   TEST NEXT LITE  
00522 0020 00 0 00512           TRA SLNA6   REPEAT SLNA6

\*TEST SENSE LITE 7

00523 0760 00 0 00140   SLNA7   SLF           TURN LITE 7 OFF  
00524 0760 00 0 00145           SLN 5       TURN LITE 5 ON  
00525 -0760 00 0 00147           SLT 7       TEST LITE 7  
00526 0020 00 0 00531           TRA A48     OK LITE 7 OFF  
00527 0760 00 0 00162           SWT 2       SSW 2  
00530 0420 00 0 00000           HPR         LITE 7 TURNED ON BY SLN 5  
00531 0760 00 0 00161   A48     SWT 1       SSW 1  
00532 0020 00 0 00534           TRA SLNA8   TEST NEXT LITE  
00533 0020 00 0 00523           TRA SLNA7   REPEAT SLNA7

\*TEST SENSE LITE 8

00534 0760 00 0 00140   SLNA8   SLF           TURN LITE 8 OFF  
00535 0760 00 0 00145           SLN 5       TURN LITE 5 ON  
00536 -0760 00 0 00150           SLT 8       TEST LITE 8  
00537 0020 00 0 00542           TRA A49     OK LITE 8 OFF  
00540 0760 00 0 00162           SWT 2       SSW 2  
00541 0420 00 0 00000           HPR         LITE 8 TURNED ON BY SLN 5  
00542 0760 00 0 00161   A49     SWT 1       SSW 1  
00543 0020 00 0 00545           TRA SLTB1   GO TO NEXT ROUTINE  
00544 0020 00 0 00534           TRA SLNA8   REPEAT SLNA8

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\*TEST SLT TO SEE THAT TURNING OFF ONE LITE  
\*DOES NOT TURN OFF ANY OTHER LITE

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\*TEST SENSE LITE 1

00545	0760	00	0	00140	SLTB1	SLF	TURN ALL OFF IF ANY ON
00546	0760	00	0	00141		SLN 1	TURN LITE 1 ON
00547	-0760	00	0	00142		SLT 2	TEST LITE 2
00550	-0760	00	0	00141		SLT 1	TEST LITE 1
00551	0020	00	0	00553		TRA A50	ERROR LITE 1 OFF
00552	0020	00	0	00555		TRA A51	OK LITE 1 ON
00553	0760	00	0	00162	A50	SWT 2	SSW 2
00554	0420	00	0	00000		HPR	LITE 1 TURNED OFF BY SLT 2
00555	0760	00	0	00161	A51	SWT 1	SSW 1
00556	0020	00	0	00560		TRA SLTB2	TEST NEXT LITE
00557	0020	00	0	00545		TRA SLTB1	REPEAT SLTB1

\*TEST SENSE LITE 2

00560	0760	00	0	00140	SLTB2	SLF	TURN ALL OFF IF ANY ON
00561	0760	00	0	00142		SLN 2	TURN LITE 2 ON
00562	-0760	00	0	00141		SLT 1	TEST LITE 1
00563	-0760	00	0	00142		SLT 2	TEST LITE 2
00564	0020	00	0	00566		TRA A52	ERROR LITE 2 OFF
00565	0020	00	0	00570		TRA A53	OK LITE 1 ON
00566	0760	00	0	00162	A52	SWT 2	SSW 2
00567	0420	00	0	00000		HPR	LITE 2 TURNED OFF BY SLT 1
00570	0760	00	0	00161	A53	SWT 1	SSW 1
00571	0020	00	0	00573		TRA SLTB3	TEST NEXT LITE
00572	0020	00	0	00560		TRA SLTB2	REPEAT SLTB2

\*TEST SENSE LITE 3

00573	0760	00	0	00140	SLTB3	SLF	TURN ALL OFF IF ANY ON
00574	0760	00	0	00143		SLN 3	TURN LITE 3 ON
00575	-0760	00	0	00141		SLT 1	TEST LITE 1
00576	-0760	00	0	00143		SLT 3	TEST LITE 3
00577	0020	00	0	00601		TRA A54	ERROR LITE 3 OFF
00600	0020	00	0	00603		TRA A55	OK LITE 1 ON
00601	0760	00	0	00162	A54	SWT 2	SSW 2
00602	0420	00	0	00000		HPR	LITE 3TURNED OFF BY SLT 1
00603	0760	00	0	00161	A55	SWT 1	SSW 1
00604	0020	00	0	00606		TRA SLTB4	TEST NEXT LITE
00605	0020	00	0	00573		TRA SLTB3	REPEAT SLTB3

\*TEST SENSE LITE 4

00606	0760	00	0	00140	SLTB4	SLF	TURN ALL OFF IF ANY ON
00607	0760	00	0	00144		SLN 4	TURN LITE 4 ON
00610	-0760	00	0	00141		SLT 1	TEST LITE 1
00611	-0760	00	0	00144		SLT 4	TEST LITE 4
00612	0020	00	0	00614		TRA A56	ERROR LITE 4 OFF
00613	0020	00	0	00616		TRA A57	OK LITE 1 ON
00614	0760	00	0	00162	A56	SWT 2	SSW 2
00615	0420	00	0	00000		HPR	LITE 1 TURNED OFF BY SLT 1
00616	0760	00	0	00161	A57	SWT 1	SSW 1
00617	0020	00	0	00621		TRA SLTB5	TEST NEXT LITE
00620	0020	00	0	00606		TRA SLTB4	REPEAT SLTB4

\*TEST SENSE LITE 5

00621	0760	00	0	00140	SLTB5	SLF	TURN ALL OFF IF ANY ON
00622	0760	00	0	00145		SLN 5	TURN LITE 5 ON
00623	-0760	00	0	00146		SLT 6	TEST LITE 6
00624	-0760	00	0	00145		SLT 5	TEST LITE 5
00625	0020	00	0	00627		TRA A58	ERROR LITE 5 OFF
00626	0020	00	0	00631		TRA A59	OK LITE 1 ON
00627	0760	00	0	00162	A58	SWT 2	SSW 2
00630	0420	00	0	00000		HPR	LITE 5 TURNED OFF BY SLT 6
00631	0760	00	0	00161	A59	SWT 1	SSW 1
00632	0020	00	0	00634		TRA SLTB6	TEST NEXT LITE
00633	0020	00	0	00621		TRA SLTB5	REPEAT SLTB5

\*TEST SENSE LITE 6

00634	0760	00	0	00140	SLTB6	SLF	TURN ALL OFF IF ANY ON
00635	0760	00	0	00146		SLN 6	TURN LITE 6 ON
00636	-0760	00	0	00145		SLT 5	TEST LITE 5
00637	-0760	00	0	00146		SLT 6	TEST LITE 6
00640	0020	00	0	00642		TRA A60	ERROR LITE 6 OFF
00641	0020	00	0	00644		TRA A61	OK LITE 1 ON
00642	0760	00	0	00162	A60	SWT 2	SSW 2
00643	0420	00	0	00000		HPR	LITE 6 TURNED OFF BY SLT 5
00644	0760	00	0	00161	A61	SWT 1	SSW 1
00645	0020	00	0	00647		TRA SLTB7	TEST NEXT LITE
00646	0020	00	0	00634		TRA SLTB6	REPEAT SLTB6

\*TEST SENSE LITE 7

00647	0760	00	0	00140	SLTB7	SLF	TURN ALL OFF IF ANY ON
00650	0760	00	0	00147		SLN 7	TURN LITE 7 ON
00651	-0760	00	0	00145		SLT 5	TEST LITE 5
00652	-0760	00	0	00147		SLT 7	TEST LITE 7
00653	0020	00	0	00655		TRA A62	ERROR LITE 7 OFF
00654	0020	00	0	00657		TRA A63	OK LITE 7 ON
00655	0760	00	0	00162	A62	SWT 2	SSW 2
00656	0420	00	0	00000		HPR	LITE 7 TURNED OFF BY SLT 5
00657	0760	00	0	00161	A63	SWT 1	SSW 1
00660	0020	00	0	00662		TRA SLTB8	TEST NEXT LITE
00661	0020	00	0	00647		TRA SLTB7	REPEAT SLTB7

\*TEST SENSE LITE 8

00662	0760	00	0	00140	SLTB8	SLF	TURN ALL OFF IF ANY ON
00663	0760	00	0	00150		SLN 8	TURN LITE 8 ON
00664	-0760	00	0	00145		SLT 5	TEST LITE 5
00665	-0760	00	0	00150		SLT 8	TEST LITE 8
00666	0020	00	0	00670		TRA A64	ERROR LITE 2 OFF
00667	0020	00	0	00672		TRA A65	OK LITE 1 ON
00670	0760	00	0	00162	A64	SWT 2	SSW 2
00671	0420	00	0	00000		HPR	LITE 8 TURNED OFF BY SLT 5
00672	0760	00	0	00161	A65	SWT 1	SSW 1
00673	0020	00	0	00675		TRA NOP	GO TO NEXT ROUTINE
00674	0020	00	0	00662		TRA SLTB8	REPEAT SLTB8

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\* NOP TEST TO CHECK NOP FOR INTERPRETATION AS SLT 1

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00675	0760	00	0	00140	NOP	SLF	TURN ALL OFF IF ANY ON
00676	0761	00	0	00141		NOP 97	
00677	-0760	00	0	00141		SLT 1	TEST LITE ONE
00700	0020	00	0	00703		TRA A66	OK SHOULD BE OFF
00701	0760	00	0	00162		SWT 2	SSW 2
00702	0420	00	0	00000		HPR	NOP EXECUTED AS SLT
00703	0760	00	0	00161	A66	SWT 1	SSW 1
00704	0020	00	0	00706		TRA SWT5	PROCEED TO NEXT ROUTINE
00705	0020	00	0	00675		TRA NOP	REPEAT NOP TEST

00706	0760	00	0	00165	SWT5	SWT 5	SSW 5
00707	0020	00	0	00721		TRA SWT6	PROCEED TO SSW 6

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\* TURN ALL SENSE LITES ON AND HALT

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00710	0760	00	0	00141		SLN 1	TURN LITE 1 ON
00711	0760	00	0	00142		SLN 2	TURN LITE 2 ON
00712	0760	00	0	00143		SLN 3	TURN LITE 3 ON
00713	0760	00	0	00144		SLN 4	TURN LITE 4 ON
00714	0760	00	0	00145		SLN 5	TURN LITE 5 ON
00715	0760	00	0	00146		SLN 6	TURN LITE 6 ON
00716	0760	00	0	00147		SLN 7	TURN LITE 7 ON
00717	0760	00	0	00150		SLN 8	TURN LITE 8 ON
00720	0000	00	0	00721		HTR SWT6	HALT FOR CE TEST

00721	0760	00	0	00166	SWT6	SWT 6	SSW 6
00722	0020	00	0	00724		TRA RCD	END OF DIAGNOSTIC
00723	0020	00	0	00030		TRA START	REPEAT DIAGNOSTIC

00724	0762	00	0	01321	RCD	RCDA	READ
00725	0540	00	0	00730		RCHA Z	IN
00726	0544	00	0	00000		LCHA 0	NEXT
00727	0020	00	0	00001		TRA 1	DIAGNOSTIC

00730	-1	00000	0	00000	Z	IOCT	0,0,3
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				00030		END START	
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EOF\*