

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1  
 CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2  
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	000	JOB	1401 AUTOCODER-PASS 1-GENERATE SYSTEM TAPE-VERSION 3						
102	1	02		CTL	630 1						
103	1	03	SYSTP	EQU	%U1				%U1		
104	1	04	CARD	EQU	0				0000		
105	1	05	PRINT	EQU	200				0200		
106	1	06		ORG	87					0087	
107	1	07	XR1	DCW	000	3		0089			4
108	1	08		DC	00	2		0091			4
109	1	09	XR2	DCW	000	3		0094			4
110	1	10		DC	00	2		0096			4
111	1	11	XR3	DCW	000	3		0099			4
112	1	12		DC	000000	6		0105			4
113	1	13	ZONE	DCW	@2SKB@	4		0109			4
114	1	14	ABIT	EQU	ZONE-2			0107			
115	1	15	NOBIT	EQU	ZONE-3			0106			
116	1	16	XXXX	EQU	0			0000			
117	1	17	*								
118	1	18	*	START OF MAIN LINE							
119	1	19	*								
120	1	20		ORG	333				0333		
121	1	21	START	RWD	SYSTP	5	0333	U %U1 R			5
122	1	22		CC	1	2	0338	F 1			5
123	1	23		MCW	@GENERATING 1401 AUTOCODER SYSTEM@,PRINT&32	7	0340	M '83 232			5
124	1	24		W		1	0347	2			5
125	1	25		CC	1	2	0348	F 1			5
126	1	26		CS	PRINT&132	4	0350	/ 332			5
127	1	27		CS		1	0354	/			5
128	1	28		MCW	CARD&75,SEQNO#4	7	0355	M 075 '87			6
129	1	29	*								
130	1	30	*	START UP NEXT BLOCK							
131	1	31	*								
132	1	32	NXTBK	R		1	0362	1			6
133	1	33		C	CARD&12,@CONTROL@	7	0363	C 012 '94			6
134	1	34		BU	MACRO	5	0370	B 792 /			6
135	1	35		BWZ	CKSEQ,CARD&80,2 COMMENT OUT TO TURN OFF SEQ CHK	8	0375	V 726 080 2			6
136	1	36		BCE	EOJOB,CARD&78,9	8	0383	B 877 078 9			6
137	1	37		SW	CARD&21	4	0391	, 021			7
138	1	38		ZA	CARD&25,HOLD5#5	7	0395	? 025 '99			7
139	1	39		CW	CARD&21	4	0402	) 021			7
140	1	40	*								
141	1	41	*	FLOAT ADDRESS TO FIVE CHARACTERS							
142	1	42	*								
143	1	43	FLOAT	BCE	*&5,HOLD5,&	8	0406	B 418 '99 &			7
144	1	44		B	COMP1	4	0414	B 429			7
145	1	45		ZA	HOLD5-1,HOLD5	7	0418	? '98 '99			7
146	1	46		B	FLOAT	4	0425	B 406			7
147	1	47	*								

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48	*	TEST ADDRESS AGAINST HOME ADDRESS							
149	1	49	*	TO DEVELOP INDEX VALUE							
150	1	50	*								
151	1	51	COMP1	MZ	NOBIT,HOLD5	7	0429	Y 106 '99			8
152	1	52		S	XR1&2	4	0436	S 091			8
153	1	53		C	HOLD5,@01500@	7	0440	C '99 /04			8
154	1	54		BE	DOCOR	5	0447	B 538 S			8
155	1	55		BH	SUB1	5	0452	B 527 U			8
156	1	56		S	@01500@,HOLD5	7	0457	S /09 '99			8
157	1	57		MCW	@1600@,WORK5#5	7	0464	M /14 /19			9
158	1	58	SUB2	S	HOLD5,WORK5	7	0471	S '99 /19			9
159	1	59	*								
160	1	60	*	CONVERT INDEX VALUE TO 3 DIGIT MACHINE ADDRESS							
161	1	61	*								
162	1	62	CNVRT	BAV	*&1	5	0478	B 483 Z			9
163	1	63		A	@96@,WORK5-3	7	0483	A /21 /16			9
164	1	64		BAV	CNVRT&5	5	0490	B 483 Z			9
165	1	65		MZ	WORK5-4,WORK5	7	0495	Y /15 /19			9
166	1	66		MN	WORK5-3,*&4	7	0502	D /16 512			10
167	1	67		MZ	ZONE,WORK5-2	7	0509	Y 109 /17			10
168	1	68		MCW	WORK5,XR1	7	0516	M /19 089			10
169	1	69		B	DOCOR	4	0523	B 538			10
170	1	70	SUB1	MCW	@01500@,WORK5	7	0527	M /26 /19			10
171	1	71		B	SUB2	4	0534	B 471			10
172	1	72	*								
173	1	73	*	READ CONDENSED CARDS							
174	1	74	*								
175	1	75	DOCOR	R		1	0538	1			10
176	1	76		MCW	@045@,XR3	7	0539	M /29 099			11
177	1	77		MCW	@042@,XR2	7	0546	M /32 094			11
178	1	78		BWZ	CKSEQ,CARD&80,2 COMMENT OUT TO TURN OFF SEQ CHK	8	0553	V 726 080 2			11
179	1	79		BCE	WTAP1,CARD&68,B	8	0561	B 675 068 B			11
180	1	80		BCE	SETWM,CARD&40,N	8	0569	B 596 040 N			11
181	1	81		C	CARD&46,@001@	7	0577	C 046 /35			12
182	1	82		BE	SETWM	5	0584	B 596 S			12
183	1	83		MZ	ABIT,CARD&45	7	0589	Y 107 045			12
184	1	84	*								
185	1	85	*	SET RETURN ADDRESS							
186	1	86	*								
187	1	87	SETWM	MCW	@DOCOR,CARD&71	7	0596	M /38 071			12
188	1	88		MCW	@B@	4	0603	M /39			12
189	1	89	*								
190	1	90	*	INDEX WORD MARK ADDRESSES							
191	1	91	*								
192	1	92	COMP2	C	XR2,@063@	7	0607	C 094 /42			12
193	1	93		BE	CARD&40	5	0614	B 040 S			13
194	1	94		A	&7,XR3	7	0619	A /43 099			13
195	1	95		A	&7,XR2	7	0626	A /43 094			13
196	1	96		C	CARD&1&X2,@040@	7	0633	C 011 /46			13
197	1	97		BE	*&8	5	0640	B 652 S			13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	98		MZ	ABIT,CARD&X2		7	0645	Y 107 010		13
199	1	99		C	CARD&1&X3,@040@		7	0652	C 071 /46		14
200	2	00		BE	COMP2		5	0659	B 607 S		14
201	2	01		MZ	ABIT,CARD&X3		7	0664	Y 107 070		14
202	2	02		B	COMP2		4	0671	B 607		14
203	2	03		*							
204	2	04		*	WRITE CORE ON TAPE						
205	2	05		*							
206	2	06	WTAP1	LCA	@1@,3998		7	0675	L /47 198		14
207	2	07		WTW	SYSTP,1500		8	0682	L %U1 V00 W		14
208	2	08		BER	WTERR		5	0690	B 973 L		15
209	2	09		*							
210	2	10		*	CLEAR INPUT AREA						
211	2	11		*							
212	2	12		MCW	@I99@,CLEAR&3		7	0695	M /50 705		15
213	2	13	CLEAR	CS	XXXX		4	0702	/ 000		15
214	2	14		SBR	CLEAR&3		4	0706	H 705		15
215	2	15		C	CLEAR&3,@U9@		7	0710	C 705 /53		15
216	2	16		BU	CLEAR		5	0717	B 702 /		15
217	2	17		B	NXTEK		4	0722	B 362		15
218	2	18		*							
219	2	19		*	CHECK CARD SEQUENCE						
220	2	20		*							
221	2	21	CKSEQ	SBR	SEQXT&3		4	0726	H 759		16
222	2	22		A	&1,SEQNO		7	0730	A /54 '87		16
223	2	23		C	CARD&75,SEQNO		7	0737	C 075 '87		16
224	2	24		MCW	CARD&75,SEQNO		7	0744	M 075 '87		16
225	2	25		BU	SEQER		5	0751	B 760 /		16
226	2	26	SEQXT	B	XXXX		4	0756	B 000		16
227	2	27		*							
228	2	28		*	CARD SEQUENCE ERROR						
229	2	29		*							
230	2	30	SEQER	MCW	CARD&80,PRINT&80		7	0760	M 080 280		17
231	2	31		CHAIN	6					MACRO	
232				MCW			1	0767	M	GEN	17
233				MCW			1	0768	M	GEN	17
234				MCW			1	0769	M	GEN	17
235				MCW			1	0770	M	GEN	17
236				MCW			1	0771	M	GEN	17
237				MCW			1	0772	M	GEN	17
238	2	32		MCW	@SEQUENCE ERROR@,PRINT&98		7	0773	M /68 298		16
239	2	33		W			1	0780	Z		16
240	2	34		H	0,176		7	0781	. 000 176		16
241	2	35		B	DOSEQ		4	0788	B 941		16
242	2	36		*							
243	2	37		*	PROCESS MACRO LIBRARY						
244	2	38		*							
245	2	39	MACRO	NOP	CRDER		4	0792	N 917		18
246	2	40		C	CARD&20,@HEADR@		7	0796	C 020 /73		18
247	2	41		BU	CRDER		5	0803	B 917 /		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	2	42		BWZ	CKSEQ,CARD&80,2 COMMENT OUT TO TURN OF SEQ CHK		8	0808	V 726 080 2		19
249	2	43		MCW	@B@,MACRO		7	0816	M /39 792		19
250	2	44		LCA	@1@,81		7	0823	L /47 081		19
251	2	45		*							
252	2	46		*	WRITE SKELETON INSTRUCTIONS ON TAPE						
253	2	47		*							
254	2	48	WTAP2	WT	SYSTP,CARD&1		8	0830	M %U1 001 W		19
255	2	49		BER	WTERR		5	0838	B 973 L		19
256	2	50		C	CARD&11,@999999@		7	0843	C 011 /79		20
257	2	51		BE	WTTM		5	0850	B 868 S		20
258	2	52		R			1	0855	1		20
259	2	53		BWZ	CKSEQ,CARD&80,2 COMMENT OUT TO TURN OF SEQ CHK		8	0856	V 726 080 2		20
260	2	54		B	WTAP2		4	0864	B 830		20
261	2	55	WTTM	WTM	SYSTP		5	0868	U %U1 M		20
262	2	56		B	NXTEK		4	0873	B 362		20
263	2	57		*							
264	2	58		*	END OF GENERATION						
265	2	59		*							
266	2	60	EOJOB	WTM	SYSTP		5	0877	U %U1 M		21
267	2	61		RWD	SYSTP		5	0882	U %U1 R		21
268	2	62		CW	@1@		4	0887	/ /47		21
269	2	63		CS	PRINT&132		4	0891	/ 332		21
270	2	64		CS			1	0895	/		21
271	2	65		MCW	@1401 AUTOCODER SYSTEM GENERATED ON TAPE UNIT 1@,246		7	0896	M S25 246		21
272	2	66		W			1	0903	2		21
273	2	67		CC	1		2	0904	F 1		22
274	2	68		*							
275	2	69		*	FINAL HALT						
276	2	70		*							
277	2	71	HALT	H	0,142		7	0906	. 000 142		22
278	2	72		B	HALT		4	0913	B 906		22
279	2	73		*							
280	2	74		*	MISSING CONTROL CARD						
281	2	75		*							
282	2	76	CRDER	CS	PRINT&132		4	0917	/ 332		22
283	2	77		CS			1	0921	/		22
284	2	78		MCW	@SYSTEM CONTROL CARD MISSING@,PRINT&27		7	0922	M S52 227		22
285	2	79		W			1	0929	Z		22
286	2	80	HALT2	H	0,177		7	0930	. 000 177		23
287	2	81		B	HALT2		4	0937	B 930		23
288	2	82		*							
289	2	83		*	AFTER SEQUENCE ERROR, CHECK BALANCE OF DECK						
290	2	84		*							
291	2	85	DOSEQ	R			1	0941	1		23
292	2	86		BWZ	CKSEQ,CARD&80,2		8	0942	V 726 080 2		23
293	2	87		BCE	ENDSQ,CARD&78,9		8	0950	B 962 078 9		23
294	2	88		B	DOSEQ		4	0958	B 941		23
295	2	89	ENDSQ	H	0,152		7	0962	. 000 152		23
296	2	90		B	ENDSQ		4	0969	B 962		24
297	2	91		*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	2	92	*	WRITE	REDUNDANCY ROUTINE						
299	2	93	*								
300	2	94	WTERR	SBR	WXT&3		4	0973	H '36		24
301	2	95		SBR	XR3		4	0977	H 099		24
302	2	96		MZ	&9,XR3		7	0981	Y S53 099		24
303	2	97		MCW	4000-6&X3,RETRY&7		7	0988	M I14 '27		24
304	2	98	BSP	SYSTP			5	0995	U %U1 B		24
305	2	99		SKP	SYSTP		5	1000	U %U1 E		24
306	3	00		BCE	SUBCT,WTCT-1,1		8	1005	B '37 S54 1		25
307	3	01		A	&1,WTCT#2		7	1013	A /54 S55		25
308	3	02	RETRY	WT	SYSTP,XXXX		8	1020	M %U1 000 W		25
309	3	03		BER	BSP		5	1028	B 995 L		25
310	3	04	WTXT	B	XXXX		4	1033	B 000		25
311	3	05	SUBCT	S	WTCT		4	1037	S S55		25
312	3	06		H	0,161		7	1041	, 000 161		26
313	3	07		B	RETRY		4	1048	B '20		26
				DCW	@GENERATING 1401 AUTOCODER SYSTEM@		32	1083		LIT	27
			SEQNO	DCW	#04		4	1087		AREA	27
				DCW	@CONTROL@		7	1094		LIT	28
			HOLD5	DCW	#05		5	1099		AREA	28
				DCW	@01500@		5	1104		LIT	28
				DCW	@01500@		5	1109		LIT	28
				DCW	@16000@		5	1114		LIT	28
			WORK5	DCW	#05		5	1119		AREA	28
				DCW	@96@		2	1121		LIT	28
				DCW	@01500@		5	1126		LIT	29
				DCW	@045@		3	1129		LIT	29
				DCW	@042@		3	1132		LIT	29
				DCW	@001@		3	1135		LIT	29
				DCW	&DOCOR		3	1138	538	ADCON	29
				DCW	@B@		1	1139		LIT	29
				DCW	@063@		3	1142		LIT	29
				DCW	&7		1	1143		LIT	30
				DCW	@040@		3	1146		LIT	30
				DCW	@@		1	1147		LIT	30
				DCW	@I99@		3	1150		LIT	30
				DCW	@U99@		3	1153		LIT	30
				DCW	&1		1	1154		LIT	30
				DCW	@SEQUENCE ERROR@		14	1168		LIT	30
				DCW	@HEADR@		5	1173		LIT	31
				DCW	@999999@		6	1179		LIT	31
				DCW	@1401 AUTOCODER SYSTEM GENERATED ON TAPE UNIT 1@		46	1225		LIT	33
				DCW	@SYSTEM CONTROL CARD MISSING@		27	1252		LIT	33
				DCW	&9		1	1253		LIT	33
				DCW	#02		2	1255		AREA	33
314	3	08	WTCT	EX	START				B 333		34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
315	3	09		JOB	AUTOCODER-PASS 1 SELECT PROGRAM				-VERSION 3		
316	3	10		SFX	B						
317	3	11	PASSA	EQU	1650			1650			
318	3	12	DOPSA	EQU	1900			1900			
319	3	13	SYSTP	EQU	%U1			%U1			
320	3	14	*								
321	3	15	*	BRANCH	FROM TAPE LOAD ROUTINE						
322	3	16	*								
323	3	17		ORG	1					0001	
324	3	18		B	333		4	0001	B 333		37 ADDR
325	3	19		H	*-3		4	0005	. 005		37 ADDR
326	3	20	LOADD	DCW	@599@		3	0011			37 ADDR
327	3	21		ORG	87					0087	
328	3	22	XR1	DCW	000		3	0089			38
329	3	23		DC	00		2	0091			38
330	3	24		DCW	000		3	0094			38
331	3	25		DC	00		2	0096			38
332	3	26		DCW	000		3	0099			38
333	3	27		DC	00		2	0101			38
334	3	28	*								
335	3	29	*	BEGIN	PROGRAM						
336	3	30	*								
337	3	31		ORG	333					0333	
338	3	32		BER	HALT1		5	0333	B 407 L		39
339	3	33		SW	GMRK1		4	0338	, 835		39
340	3	34	CLEAR	CS	3999		4	0342	/ 199		39
341	3	35		SBR	CLEAR&3		4	0346	H 345		39
342	3	36		C	CLEAR&3,@U99@		7	0350	C 345 787		39
343	3	37		BU	CLEAR		5	0357	B 342 /		39
344	3	38	*								
345	3	39	*	GET	PAST LIBRARY						
346	3	40	*								
347	3	41	LOOP1	SW	GMRK1		4	0362	, 835		39
348	3	42		RT	SYSTP,GMRK1-21		8	0366	M %U1 814 R		40
349	3	43		C	GMRK1-2,@999999		7	0374	C 833 802		40
350	3	44		BU	LOOP1		5	0381	B 362 /		40
351	3	45		SW	GMRK1		4	0386	, 835		40
352	3	46		RT	SYSTP,GMRK1-1		8	0390	M %U1 834 R		40
353	3	47		BEF	TSTSS		5	0398	B 418 K		40
354	3	48		B	LOOP1		4	0403	B 362		41
355	3	49	*								
356	3	50	*	REDUNDANCY	ON TAPE LOAD						
357	3	51	*								
358	3	52	HALT1	H	0,199		7	0407	. 000 199		41
359	3	53		B	HALT1		4	0414	B 407		41
360	3	54	TSTSS	BSS	LIBRN,F		5	0418	B 521 F		41
361	3	55	*								
362	3	56	*	RETRIEVE	PASS 2 FOR ASSEMBLY RUN						
363	3	57	*								
364	3	58		SW	GMRK1		4	0423	, 835		41

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
365	3	59		LCA	GMRK1,3998	B	7	0427	L 835 I98		41
366	3	60		MCW	&PASSA&13,NOIS2&6	B	7	0434	M 805 658		41
367	3	61	*								
368	3	62	*	GET	PAST LIBRARIAN						
369	3	63	*								
370	3	64	LOOP2	BCE	LOPSA,BYCT,4	B	8	0441	B 476 807 4		42
371	3	65		SW	3998	B	4	0449	, I98		42
372	3	66		RTW	SYSTP,PASSA	B	8	0453	L %U1 W50 R		42
373	3	67		B	NOISE	B	4	0461	B 637		42
374	3	68		A	&1,BYCT#1	B	7	0465	A 806 807		42
375	3	69		B	LOOP2	B	4	0472	B 441		42
376	3	70	*								
377	3	71	*	PASS	2 FOUND						
378	3	72	*								
379	3	73	LOPSA	RTW	SYSTP,PASSA	B	8	0476	L %U1 W50 R		43
380	3	74		B	NOISE	B	4	0484	B 637		43
381	3	75		BER	RDERR	B	5	0488	B 676 L		43
382	3	76		CW	GMRK1	B	4	0493	) 835		43
383	3	77	CLR	CS	PASSA-1	B	4	0497	/ W49		43
384	3	78		SBR	CLR&3	B	4	0501	H 500		43
385	3	79		C	CLR&3,LOADD	B	7	0505	C 500 011		43
386	3	80		BU	CLR	B	5	0512	B 497 /		44
387	3	81		B	DOPSA	B	4	0517	B 200		44
388	3	82	*								
389	3	83	*	LIBRARY	RUN						
390	3	84	*								
391	3	85	LIBRN	MCW	@!130,NOIS2&6	B	7	0521	M 810 658		44
392	3	86		CW	GMRK1	B	4	0528	) 835		44
393	3	87		BSS	OUTPT,B	B	5	0532	B 558 B		44
394	3	88	*								
395	3	89	*	RETRIEVE	UPDATE PROGRAM						
396	3	90	*								
397	3	91		RTW	SYSTP,2000	B	8	0537	L %U1 !00 R		44
398	3	92		B	NOISE	B	4	0545	B 637		44
399	3	93		BER	RDERR	B	5	0549	B 676 L		45
400	3	94		B	2000	B	4	0554	B !00		45
401	3	95	*								
402	3	96	*	RETRIEVE	OUTPUT PROGRAM						
403	3	97	*								
404	3	98	OUTPT	RTW	SYSTP,2000	B	8	0558	L %U1 !00 R		45
405	3	99		B	NOISE	B	4	0566	B 637		45
406	4	00		SW	GMRK1	B	4	0570	, 835		45
407	4	01		LCA	GMRK1,3998	B	7	0574	L 835 I98		45
408	4	02		RTW	SYSTP,2000	B	8	0581	L %U1 !00 R		46
409	4	03		B	NOISE	B	4	0589	B 637		46
410	4	04		RTW	SYSTP,2000	B	8	0593	L %U1 !00 R		46
411	4	05		B	NOISE	B	4	0601	B 637		46
412	4	06		SW	3998	B	4	0605	, I98		46
413	4	07		RTW	SYSTP,2000	B	8	0609	L %U1 !00 R		46
414	4	08		B	NOISE	B	4	0617	B 637		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
415	4	09		BER	RDERR	B	5	0621	B 676 L		47
416	4	10		CW	GMRK1,3998	B	7	0626	) 835 I98		47
417	4	11		B	2000	B	4	0633	B !00		47
418	4	12	*								
419	4	13	*	TEST	FOR NOISE RECORDS						
420	4	14	*								
421	4	15	NOISE	SBR	NOSXT&3	B	4	0637	H 675		47
422	4	16		SBR	XR1	B	4	0641	H 089		47
423	4	17		MZ	&9,XR1	B	7	0645	Y 811 089		47
424	4	18	NOIS2	BCE	4000-12&X1,0,)	B	8	0652	B IY8 000 )	GMARK	48
425	4	19		CHAIN	12	B				MACRO	
426				BCE		B	1	0660	B	GEN	48
427				BCE		B	1	0661	B	GEN	48
428				BCE		B	1	0662	B	GEN	48
429				BCE		B	1	0663	B	GEN	48
430				BCE		B	1	0664	B	GEN	48
431				BCE		B	1	0665	B	GEN	48
432				BCE		B	1	0666	B	GEN	49
433				BCE		B	1	0667	B	GEN	49
434				BCE		B	1	0668	B	GEN	49
435				BCE		B	1	0669	B	GEN	49
436				BCE		B	1	0670	B	GEN	49
437				BCE		B	1	0671	B	GEN	49
438	4	20	NOSXT	B	0	B	4	0672	B 000		49
439	4	21	*								
440	4	22	*	READ	REDUNDANCY ROUTINE						
441	4	23	*								
442	4	24	RDERR	SBR	XR1	B	4	0676	H 089		50
443	4	25		SBR	RDXT&3	B	4	0680	H 726		50
444	4	26		MZ	&9,XR1	B	7	0684	Y 811 089		50
445	4	27		MCW	4000-10&X1,RDTRY&7	B	7	0691	M IZO 717		50
446	4	28	BSP	BSP	SYSTP	B	5	0698	U %U1 B		50
447	4	29		MCW	&9,RDCT#1	B	7	0703	M 811 812		50
448	4	30	RDTRY	RTW	SYSTP,0	B	8	0710	L %U1 000 R		51
449	4	31		BER	*&5	B	5	0718	B 727 L		51
450	4	32	RDXT	B	0	B	4	0723	B 000		51
451	4	33	BSP	SYSTP		B	5	0727	U %U1 B		51
452	4	34		S	&1,RDCT	B	7	0732	S 805 812		51
453	4	35		BWZ	RDTRY,RDCT,B	B	8	0739	V 710 812 B		51
454	4	36		H	0,191	B	7	0747	, 000 191		52
455	4	37		MCW	RDTRY&7,*&8	B	7	0754	M 717 768		52
456	4	38		RTW	SYSTP,0	B	8	0761	L %U1 000 R		52
457	4	39		BSS	BSP,E	B	5	0769	B 698 E		52
458	4	40		H	0,111	B	7	0774	, 000 111		52
459	4	41		B	RDXT	B	4	0781	B 723		52
460	4	42		LTORG	*	B			0785		
				DCW	@U990	B	3	0787		LIT	53
				DCW	@999999 HEADR0	B	15	0802		LIT	53
				DCW	&PASSAB&13	B	3	0805	W63	ADCON	53
				DCW	&1	B	1	0806		LIT	53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BYCTB	DCW	#01	B	1	0807		AREA	53
				DCW	@113@	B	3	0810		LIT	53
				DCW	&9	B	1	0811		LIT	53
			RDCTB	DCW	#01	B	1	0812		AREA	54
461	4	43		DCW	#22	B	22	0834			54
462	4	44	GMRK1	DCW	@1@	B	1	0835		GMARK	54
463	4	45		EX	0	B			B 000		55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
464	4	46		JOB	AUTOCODER-PASS 1 RETRIEVE UPDATE	-VERSION 3	B				
465	4	47		SFX	R	R					
466	4	48	SYSTP	EQU	%U1	R		%U1			
467	4	49	LTAPSW	EQU	2725	R		2725			
468	4	50		ORG	2000	R			2000		
469	4	51		BSS	LIST,G	R	5	2000	B J26 G		58
470	4	52		CW	ENDRT	R	4	2005	) K12		58
471	4	53	START	RTW	SYSTP,1	R	8	2009	L %U1 001 R		58
472	4	54		BCE	START,013,}	R	8	2017	B !09 013 }	GMARK	58
473	4	55		CHAIN	12	R				MACRO	
474				BCE		R	1	2025	B	GEN	58
475				BCE		R	1	2026	B	GEN	58
476				BCE		R	1	2027	B	GEN	58
477				BCE		R	1	2028	B	GEN	59
478				BCE		R	1	2029	B	GEN	59
479				BCE		R	1	2030	B	GEN	59
480				BCE		R	1	2031	B	GEN	59
481				BCE		R	1	2032	B	GEN	59
482				BCE		R	1	2033	B	GEN	59
483				BCE		R	1	2034	B	GEN	59
484				BCE		R	1	2035	B	GEN	60
485				BCE		R	1	2036	B	GEN	60
486	4	56		BER	RDERR	R	5	2037	B !46 L		60
487	4	57		B	333	R	4	2042	B 333		60
488	4	58	RDERR	BSP	SYSTP	R	5	2046	U %U1 B		60
489	4	59		MCW	&9,RDCT#1	R	7	2051	M K06 K07		60
490	4	60	RDTRY	RTW	SYSTP,1	R	8	2058	L %U1 001 R		60
491	4	61		BER	*&5	R	5	2066	B !75 L		61
492	4	62		B	333	R	4	2071	B 333		61
493	4	63		BSP	SYSTP	R	5	2075	U %U1 B		61
494	4	64		S	&1,RDCT	R	7	2080	S K08 K07		61
495	4	65		BWZ	RDTRY,RDCT,B	R	8	2087	V 158 K07 B		61
496	4	66		H	0,191	R	7	2095	. 000 191		61
497	4	67	AGAIN	RTW	SYSTP,1	R	8	2102	L %U1 001 R		62
498	4	68		BSS	RDERR,E	R	5	2110	B !46 E		62
499	4	69		H	0,111	R	7	2115	. 000 111		62
500	4	70		B	333	R	4	2122	B 333		62
501	4	71	LIST	SW	ENDRT	R	4	2126	, K12		62
502	4	72		LCA	ENDRT,1998	R	7	2130	L K12 298		62
503	4	73		RTW	SYSTP,333	R	8	2137	L %U1 333 R		63
504	4	74		BEF	GET	R	5	2145	B J54 K		63
505	4	75		B	LIST	R	4	2150	B J26		63
506	4	76	GET	BSP	SYSTP	R	5	2154	U %U1 B		63
507	4	77		BSP	SYSTP	R	5	2159	U %U1 B		63
508	4	78		CW	ENDRT,1998	R	7	2164	) K12 298		63
509	4	79		SW	LTAPSW	R	4	2171	, P25		63
510	4	80		MCW	@333@,RDTRY&6	R	7	2175	M K11 !64		64
511	4	81		MCW	@333@,AGAIN&6	R	7	2182	M K11 !08		64
512	4	82		RTW	SYSTP,333	R	8	2189	L %U1 333 R		64
513	4	83		BER	RDERR	R	5	2197	B !46 L		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
514	4	84		B	333	R	4	2202	B 333		64
515	4	85		LTORG	*	R			2206		
				DCW	&9	R	1	2206		LIT	64
			RDCTR	DCW	#01	R	1	2207		AREA	64
				DCW	&1	R	1	2208		LIT	65
				DCW	@333@	R	3	2211		LIT	65
516	4	86	ENDRT	DCW	@1@	R	1	2212		GMARK	65
517	4	87	EX		0	R			B 000		66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
518	4	88		JOB	AUTOCODER-PASS 1 COPY SYSTEM TAPE	-VERSION 3	R				
519	4	89		SFX	U	U					
520	4	90		ORG	87	U			0087		
521	4	91	XR1	DCW	000	U	3	0089			69
522	4	92		DC	00	U	2	0091			69
523	4	93	XR2	DCW	000	U	3	0094			69
524	4	94		DC	00	U	2	0096			69
525	4	95	XR3	DCW	000	U	3	0099			69
526	4	96		DC	00	U	2	0101			69
527	4	97	SYSTP	EQU	%U1	U			%U1		
528	4	98	OUTAP	EQU	%U6	U			%U6		
529	4	99	INPUT	EQU	1500	U			1500		
530	5	00		*							
531	5	01		* BEGIN PROGRAM							
532	5	02		*							
533	5	03		ORG	333	U			0333		
534	5	04		SW	ENDUP	U	4	0333	, /39		70
535	5	05		RWD	SYSTP	U	5	0337	U %U1 R		70
536	5	06		RWD	OUTAP	U	5	0342	U %U6 R		70
537	5	07		CC	1	U	2	0347	F 1		70
538	5	08		CS	332	U	4	0349	/ 332		70
539	5	09		CS		U	1	0353	/		70
540	5	10		B	CLEAR	U	4	0354	B '21		70
541	5	11		BSS	COPY,C	U	5	0358	B 525 C		71
542	5	12		*							
543	5	13		* RETRIEVE UPDATE PROGRAM							
544	5	14		*							
545	5	15		RTW	SYSTP, INPUT	U	8	0363	L %U1 V00 R		71
546	5	16		SBR	XR1	U	4	0371	H 089		71
547	5	17		MN	0&X1	U	4	0375	D 0'0		71
548	5	18		SW		U	1	0379	,		71
549	5	19		DCW	@N0000@	U	5	0384			71
550	5	20		B	NOISE	U	4	0385	B 759		71
551	5	21		BER	RDERR	U	5	0389	B 798 L		72
552	5	22		WTW	OUTAP, INPUT	U	8	0394	L %U6 V00 W		72
553	5	23		BER	WTERR	U	5	0402	B 928 L		72
554	5	24		B	CLEAR	U	4	0407	B '21		72
555	5	25		BYSPSS	RTW SYSTP, INPUT	U	8	0411	L %U1 V00 R		72
556	5	26		C	INPUT&19,@999999 HEADR@	U	7	0419	C V19 '70		72
557	5	27		BU	BYSPSS	U	5	0426	B 411 /		73
558	5	28		RTW	SYSTP, INPUT	U	8	0431	L %U1 V00 R		73
559	5	29		BEF	GETUP	U	5	0439	B 448 K		73
560	5	30		B	BYSPSS	U	4	0444	B 411		73
561	5	31	GETUP	BCE	LDUPD, BYCT, 3	U	8	0448	B 498 '72 3		73
562	5	32		RTW	SYSTP, INPUT	U	8	0456	L %U1 V00 R		73
563	5	33		DCW	@N0000000000000@	U	14	0477			74
564	5	34		B	NOISE	U	4	0478	B 759		74
565	5	35		BER	RDERR	U	5	0482	B 798 L		74
566	5	36		A	&1, BYCT#1	U	7	0487	A '71 '72		74
567	5	37		B	GETUP	U	4	0494	B 448		74



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
668	6	26	*	READ	REDUNDANCY ROUTINE						
669	6	27	*								
670	6	28	RDERR	SBR	RDXT&3	U	4	0798	H 855		84
671	6	29		SBR	XR3	U	4	0802	H 099		85
672	6	30		MZ	&9,XR3	U	7	0806	Y /29 099		85
673	6	31		MCW	4000-24&X3,RDTRY&7	U	7	0813	M IG6 846		85
674	6	32		MN	RDTRY&3,BSP1&3	U	7	0820	D 842 830		85
675	6	33	BSP1	BSP	SYSTP	U	5	0827	U %U1 B		85
676	6	34		MCW	&9,RDCT#1	U	7	0832	M /29 /30		85
677	6	35	RDTRY	RT	SYSTP,0	U	8	0839	M %U1 000 R		86
678	6	36		BER	*&5	U	5	0847	B 856 L		86
679	6	37	RDXT	B	0	U	4	0852	B 000		86
680	6	38		MN	RDTRY&3,BSP2&3	U	7	0856	D 842 866		86
681	6	39	BSP2	BSP	SYSTP	U	5	0863	U %U1 B		86
682	6	40		S	&1,RDCT	U	7	0868	S '71 /30		86
683	6	41	BWZ	RDTRY,RDCT,B		U	8	0875	V 839 /30 B		87
684	6	42		MN	RDTRY&3,*&7	U	7	0883	D 842 896		87
685	6	43		H	0,190	U	7	0890	. 000 190		87
686	6	44		MCW	RDTRY&7,*&8	U	7	0897	M 846 911		87
687	6	45		RT	SYSTP,0	U	8	0904	M %U1 000 R		87
688	6	46		BSS	BSP1,E	U	5	0912	B 827 E		88
689	6	47		H	0,111	U	7	0917	. 000 111		88
690	6	48		B	RDXT	U	4	0924	B 852		88
691	6	49	*								
692	6	50	*	WRITE	REDUNDANCY ROUTINE						
693	6	51	*								
694	6	52	WTERR	SBR	WIXT&3	U	4	0928	H 998		88
695	6	53		SBR	XR3	U	4	0932	H 099		88
696	6	54		MZ	&9,XR3	U	7	0936	Y /29 099		88
697	6	55		MCW	4000-6&X3,WTRY&7	U	7	0943	M II4 989		88
698	6	56		MN	WTRY&3,BSP3&3	U	7	0950	D 985 960		89
699	6	57	BSP3	BSP	OUTAP	U	5	0957	U %U6 B		89
700	6	58		SKP	SYSTP	U	5	0962	U %U1 E		89
701	6	59		BCE	SUBCT,WICT-1,1	U	8	0967	B 999 /31 1		89
702	6	60		A	&1,WICT#2	U	7	0975	A '71 /32		89
703	6	61	WTRY	WT	OUTAP,0	U	8	0982	M %U6 000 W		90
704	6	62		BER	BSP3	U	5	0990	B 957 L		90
705	6	63	WIXT	B	0	U	4	0995	B 000		90
706	6	64	SUBCT	S	WICT	U	4	0999	S /32		90
707	6	65		MN	WTRY&3,*&7	U	7	1003	D 985 '16		90
708	6	66		H	0,160	U	7	1010	. 000 160		90
709	6	67		B	WTRY	U	4	1017	B 982		90
710	6	68	*								
711	6	69	*	CLEAR	OUTPUT AREA						
712	6	70	*								
713	6	71	CLEAR	SBR	CLRXT&3	U	4	1021	H '55		91
714	6	72		MCW	@I99@,CLR&3	U	7	1025	M /35 '35		91
715	6	73	CLR	CS	3999	U	4	1032	/ 199		91
716	6	74		SBR	CLR&3	U	4	1036	H '35		91
717	6	75		C	CLR&3,&INPUT-1	U	7	1040	C '35 /38		91

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
718	6	76		BU	CLR	U	5	1047	B '32 /		91
719	6	77	CLRXT	B	0	U	4	1052	B 000		91
720	6	78		LTORG	*	U			1056		
				DCW	@999999 HEADR@	U	15	1070		LIT	92
				DCW	&1	U	1	1071		LIT	92
			BYCTU	DCW	#01	U	1	1072		AREA	92
				DCW	@999999@	U	6	1078		LIT	92
			LIBSWU	DCW	#01	U	1	1079		AREA	92
			EOFSWU	DCW	#01	U	1	1080		AREA	92
			SKPCTU	DCW	#02	U	2	1082		AREA	92
				DCW	@1401 AUTOCODER SYSTEM COPIED ON TAPE UNIT 6@	U	43	1125		LIT	94
			UPDSWU	DCW	#01	U	1	1126		AREA	94
				DCW	@N@	U	1	1127		LIT	94
				DCW	@B@	U	1	1128		LIT	94
				DCW	&9	U	1	1129		LIT	94
			RDCTU	DCW	#01	U	1	1130		AREA	95
			WTCTU	DCW	#02	U	2	1132		AREA	95
				DCW	@I99@	U	3	1135		LIT	95
				DCW	&INPUTU-1	U	3	1138	U99	ADCON	95
721	6	79	ENDUP	DCW	@I@	U	1	1139		GMARK	95
722	6	80		EX	0	U			B 000		96



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
723	6	81		JOB	AUTOCODER-PASS 1 UPDATE LIBRARY						
724	6	82	IMAGE	EQU	101						
725	6	83	*								
726	6	84	*	BEGIN	UPDATE						
727	6	85	*								
728	6	86		ORG	INPUT				1500		
729	6	87	BEGIN	RWD	SYSTP		5	1500	U \$U1 R		99
730	6	88		CW	HEDSW,ENDSW		7	1505	) ?91 ?98		99
731	6	89		MCW	&IMAGE&13,NOIS2&6		7	1512	M ?30 ?80		99
732	6	90		LCA	ENDUP, IMAGE&80		7	1519	L /?39 181		99
733	6	91		RT	SYSTP, IMAGE		8	1526	M \$U1 101 R		99
734	6	92		DCW	@N00000000000000@		14	1547			100
735	6	93		B	NOISE		4	1548	B ?59		100
736	6	94		CS	IMAGE&79		4	1552	/ 180		100
737	6	95		B	RDTF		4	1556	B M17		100
738	6	96	REBEG	B	READ		4	1560	B L24		100
739	6	97		BW	SERCH, INSW		8	1564	V V84 ?73 1		100
740	6	98		BW	SERCH, DELSW		8	1572	V V84 ?79 1		101
741	6	99		B	REBEG		4	1580	B V60		101
742	7	00	*								
743	7	01	*	SEARCH	FOR CORRECT SUBROUTINE						
744	7	02	*								
745	7	03	SERCH	B	DOCTL		4	1584	B N94		101
746	7	04		C	11,@9999999@		7	1588	C 011 ?36		101
747	7	05		BE	CLNUP		5	1595	B K40 S		101
748	7	06		C	&,NAME#3		7	1600	C 008 ?39		101
749	7	07		BE	FOUND		5	1607	B X30 S		102
750	7	08		BH	QUIT		5	1612	B P75 U		102
751	7	09		MCW	&,NAME		7	1617	M 008 ?39		102
752	7	10		S	SEQNO		4	1624	S A67		102
753	7	11	LOOP1	BW	HEADR, HEDSW		8	1628	V W56 ?91 1		102
754	7	12		B	RDTF		4	1636	B M17		102
755	7	13		BW	HEADR, HEDSW		8	1640	V W56 ?91 1		103
756	7	14	MORE	B	WTAP2		4	1648	B M95		103
757	7	15		B	LOOP1		4	1652	B W28		103
758	7	16	*								
759	7	17	*	HEADER	LOCATED ON TAPE						
760	7	18	*								
761	7	19	HEADR	BW	PAST,ENDSW		8	1656	V W89 ?98 1		103
762	7	20		C	IMAGE&7,NAME		7	1664	C 108 ?39		103
763	7	21		BE	FOUND		5	1671	B X30 S		103
764	7	22		CW	HEDSW		4	1676	) ?91		104
765	7	23		BL	PAST		5	1680	B W89 T		104
766	7	24		B	MORE		4	1685	B W48		104
767	7	25	*								
768	7	26	*	SUBROUTINE	NOT ON TAPE						
769	7	27	*								
770	7	28	PAST	BSP	SYSTP		5	1689	U \$U1 B		104
771	7	29		CS	IMAGE&79		4	1694	/ 180		104
772	7	30		CW	HEDSW		4	1698	) ?91		104

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
773	7	31		BW	UNKWN,DELSW		8	1702	V Q01 ?79 1		104
774	7	32		C	22,@ @		7	1710	C 022 ?41		105
775	7	33		BU	UNKWN		5	1717	B Q01 /		105
776	7	34	BACK	B	PTCTL		4	1722	B O37		105
777	7	35		B	INSER		4	1726	B Y06		105
778	7	36	*								
779	7	37	*	SUBROUTINE	FOUND						
780	7	38	*								
781	7	39	FOUND	C	22,@ @		7	1730	C 022 ?41		105
782	7	40		BU	PARTL		5	1737	B Y46 /		105
783	7	41	*								
784	7	42	*	DELETE	AND/OR INSERT WHOLE SUBROUTINES						
785	7	43	*								
786	7	44	ALL	MCW	@DELET@,218		7	1742	M ?46 218		105
787	7	45		B	PTCTL		4	1749	B O37		106
788	7	46		S	SEQNO		4	1753	S A67		106
789	7	47	LOOP2	B	PRINT		4	1757	B O72		106
790	7	48		B	RDTF		4	1761	B M17		106
791	7	49		BW	EXIT, HEDSW		8	1765	V X77 ?91 1		106
792	7	50		B	LOOP2		4	1773	B X57		106
793	7	51	EXIT	BSP	SYSTP		5	1777	U \$U1 B		106
794	7	52		CS	IMAGE&79		4	1782	/ 180		107
795	7	53		CW	HEDSW		4	1786	) ?91		107
796	7	54		BW	REBEG,DELSW		8	1790	V V60 ?79 1		107
797	7	55	*								
798	7	56	*	INSERTION	OF WHOLE SUBROUTINE						
799	7	57	*								
800	7	58		B	DOCTL		4	1798	B N94		107
801	7	59		B	PTCTL		4	1802	B O37		107
802	7	60	INSER	S	SEQNO		4	1806	S A67		107
803	7	61	LOOP3	B	READ		4	1810	B L24		107
804	7	62		BW	SERCH, INSW		8	1814	V V84 ?73 1		108
805	7	63		BW	SERCH, DELSW		8	1822	V V84 ?79 1		108
806	7	64		B	DOOUT		4	1830	B L07		108
807	7	65		B	PRINT		4	1834	B O72		108
808	7	66		B	WTAP2		4	1838	B M95		108
809	7	67		B	LOOP3		4	1842	B Y10		108
810	7	68	*								
811	7	69	*	DELETE	AND/OR INSERT PARTS						
812	7	70	*								
813	7	71	PARTL	S	XR3&2		4	1846	S 101		108
814	7	72		BWZ	SOME,21,2		8	1850	V Y81 021 2		109
815	7	73		C	24,@ @		7	1858	C 024 ?41		109
816	7	74		BE	ALL		5	1865	B X42 S		109
817	7	75		A	&2,XR3		7	1870	A ?47 099		109
818	7	76		SW	23		4	1877	, 023		109
819	7	77	*								
820	7	78	*	SCAN	FOR VALUES OF OPERANDS						
821	7	79	*								
822	7	80	SOME	SW	OPSW#1		4	1881	, ?48		109

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
823	7	81	TEST1	BCE	TWOOP,21&X3,,	U	8	1885	B 216	OB1	110
824	7	82		C	22&X3,@ @	U	7	1893	C 0B2	241	110
825	7	83		BE	TWOOP	U	5	1900	B 216	S	110
826	7	84		A	&1,XR3	U	7	1905	A 249	099	110
827	7	85		B	TEST1	U	4	1912	B Y85		110
828	7	86	TWOOP	ZA	20&X3,WK1#4	U	7	1916	? 0B0	253	110
829	7	87		A	@0&,WK1	U	7	1923	A 254	253	111
830	7	88		BCE	NXTOP,21&X3,,	U	8	1930	B 242	OB1	111
831	7	89		B	OUT	U	4	1938	B 108		111
832	7	90	NXTOP	SW	22&X3	U	4	1942	, 0B2		111
833	7	91		SBR	XR2	U	4	1946	H 094		111
834	7	92	ADD	A	&1,XR3	U	7	1950	A 249	099	111
835	7	93		C	22&X3,@ @	U	7	1957	C 0B2	241	112
836	7	94		HU	ADD	U	5	1964	B 250	/	112
837	7	95		ZA	20&X3,WK2#4	U	7	1969	? 0B0	258	112
838	7	96		A	@0&,WK2	U	7	1976	A 254	258	112
839	7	97		C	WK1,WK2	U	7	1983	C 253	258	112
840	7	98		BL	BADST	U	5	1990	B Q59	T	112
841	7	99		BE	ONOP	U	5	1995	B K20	S	113
842	8	00	IS2OP	CW	OPSW	U	4	2000	) 248		113
843	8	01	CLRWM	CW	1&X2	U	4	2004	) 011		113
844	8	02	OUT	CW	23	U	4	2008	) 023		113
845	8	03		BW	*48,OPSW	U	8	2012	V 127	248 1	113
846	8	04		MCW	@DELET@,218	U	7	2020	M 263	218	113
847	8	05		B	PTCTL	U	4	2027	B 037		113
848	8	06	*								
849	8	07	*		SEARCH FOR FIRST STATEMENT						
850	8	08	*								
851	8	09	COMP	C	WK1,SEQNO	U	7	2031	C 253	A67	114
852	8	10		BE	GOTIT	U	5	2038	B 170	S	114
853	8	11		A	&1,SEQNO	U	7	2043	A 249	A67	114
854	8	12		B	WTAP2	U	4	2050	B M95		114
855	8	13		B	RDTP	U	4	2054	B M17		114
856	8	14		BW	NTFND,HEDSW	U	8	2058	V Q84	291 1	114
857	8	15		B	COMP	U	4	2066	B 131		114
858	8	16	*								
859	8	17	*		FIRST STATEMENT FOUND						
860	8	18	*								
861	8	19	GOTIT	BW	QINSR,OPSW	U	8	2070	V J46	248 1	115
862	8	20	*								
863	8	21	*		SEARCH FOR SECOND STATEMENT						
864	8	22	*								
865	8	23	COMP2	B	PRINT	U	4	2078	B 072		115
866	8	24		B	RDTP	U	4	2082	B M17		115
867	8	25		C	WK2,SEQNO	U	7	2086	C 258	A67	115
868	8	26		BH	BSPC	U	5	2093	B 210	U	115
869	8	27		BW	NTFND,HEDSW	U	8	2098	V Q84	291 1	115
870	8	28		B	COMP2	U	4	2106	B 178		116
871	8	29	*								
872	8	30	*		SECOND STATEMENT FOUND						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
873	8	31	*								
874	8	32	BSPC	BSP	SYSTP	U	5	2110	U %U1	B	116
875	8	33		CS	IMAGE&79	U	4	2115	/ 180		116
876	8	34		S	&1,SEQNO	U	7	2119	S 249	A67	116
877	8	35	THRU	BW	LOOP3,DELSW	U	8	2126	V Y10	279 1	116
878	8	36		B	DOCTL	U	4	2134	B M94		116
879	8	37		B	PTCTL	U	4	2138	B 037		116
880	8	38		B	INSR&4	U	4	2142	B J77		117
881	8	39	*								
882	8	40	*		TEST INSERT OR DELETE						
883	8	41	*								
884	8	42	QINSR	BW	INSR,INSW	U	8	2146	V J73	273 1	117
885	8	43		B	PRINT	U	4	2154	B 072		117
886	8	44		S	&1,SEQNO	U	7	2158	S 249	A67	117
887	8	45		CS	IMAGE&79	U	4	2165	/ 180		117
888	8	46		B	THRU	U	4	2169	B J26		117
889	8	47	*								
890	8	48	*		INSERT STATEMENTS						
891	8	49	*								
892	8	50	INSR	B	WTAP2	U	4	2173	B M95		117
893	8	51		B	READ	U	4	2177	B L24		118
894	8	52		BW	SERCH,INSW	U	8	2181	V V84	273 1	118
895	8	53		BW	SERCH,DELSW	U	8	2189	V V84	279 1	118
896	8	54		B	DOOUT	U	4	2197	B L07		118
897	8	55		CW	SEQSW#1	U	4	2201	) 264		118
898	8	56		B	PRINT	U	4	2205	B 072		118
899	8	57		S	&1,SEQNO	U	7	2209	S 249	A67	118
900	8	58		B	INSR	U	4	2216	B J73		119
901	8	59	ONOP	BW	IS2OP,INSW	U	8	2220	V 100	273 1	119
902	8	60		SW	OPSW	U	4	2228	, 248		119
903	8	61		B	CLRWM	U	4	2232	B 104		119
904	8	62	*								
905	8	63	*		REPLICATE LIBRARY						
906	8	64	*								
907	8	65	REPET	B	WTAP2	U	4	2236	B M95		119
908	8	66	CLNUP	B	RDTP	U	4	2240	B M17		119
909	8	67		B	WTAP2	U	4	2244	B M95		119
910	8	68		BW	FINAL,ENDSW	U	8	2248	V K60	298 1	120
911	8	69		B	CLNUP	U	4	2256	B K40		120
912	8	70	*								
913	8	71	*		END OF UPDATE -- GO TO COPY ROUTINE						
914	8	72	*								
915	8	73	FINAL	WTM	OUTAP	U	5	2260	U %U6	M	120
916	8	74		MCW	&INPUT&13,NOIS2&6	U	7	2265	M 267	780	120
917	8	75		CW	LIBSW,EOFSW	U	7	2272	) '79	'80	120
918	8	76		CW	UPDSW	U	4	2279	) /26		120
919	8	77		CS	332	U	4	2283	/ 332		120
920	8	78		CS		U	1	2287	/		121
921	8	79		CC	1	U	2	2288	F 1		121
922	8	80	BYP1	RT	SYSTP,IMAGE	U	8	2290	M %U1	101 R	121



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1023	9	81	*		NEW PAGE						
1024	9	82	*								
1025	9	83	NEWPG	SBR	NEWXT&3	U	4	2658	H 071		132
1026	9	84		CC	1	U	2	2662	F 1		132
1027	9	85		B	HEAD	U	4	2664	B N32		132
1028	9	86	NEWXT	B	0	U	4	2668	B 000		133
1029	9	87	*								
1030	9	88	*		PRINT STATEMENTS						
1031	9	89	*								
1032	9	90	PRINT	SBR	PTXT&3	U	4	2672	H P74		133
1033	9	91		SW	220,214	U	7	2676	, 220 214		133
1034	9	92		SW	207	U	4	2683	, 207		133
1035	9	93		BCE	COMNT, IMAGE&5, *	U	8	2687	B P32 106 *		133
1036	9	94		MCW	IMAGE&71, 271	U	7	2695	M 172 271		133
1037	9	95		MCW	IMAGE&19, 218	U	7	2702	M 120 218		134
1038	9	96		MCW	IMAGE&10, 212	U	7	2709	M 111 212		134
1039	9	97	TSTSQ	BW	SEQNC, SEQSW	U	8	2716	V P45 264 1		134
1040	9	98		SW	SEQSW	U	4	2724	, 264		134
1041	9	99		B	BUMP	U	4	2728	B P53		134
1042	10	00	COMNT	MCW	IMAGE&71, 273	U	7	2732	M 172 273		134
1043	10	01		MCW		U	1	2739	M		134
1044	10	02		MCW		U	1	2740	M		135
1045	10	03		B	TSTSQ	U	4	2741	B P16		135
1046	10	04	SEQNC	MN	SEQNO, 204	U	7	2745	D A67 204		135
1047	10	05		MCS		U	1	2752	Z		135
1048	10	06	BUMP	A	&1, SEQNO#4	U	7	2753	A 249 A67		135
1049	10	07		W		U	1	2760	2		135
1050	10	08		CS	332	U	4	2761	/ 332		135
1051	10	09		CS		U	1	2765	/		136
1052	10	10		BCV	NEWPG	U	5	2766	B 058 @		136
1053	10	11	PTXT	B	0	U	4	2771	B 000		136
1054	10	12	*								
1055	10	13	*		SEQUENCE ERROR						
1056	10	14	*								
1057	10	15	QUIT	CS	332	U	4	2775	/ 332		136
1058	10	16		CS		U	1	2779	/		136
1059	10	17		MCW	@INPUT CARDS OUT OF SEQUENCE - START OVER@,240	U	7	2780	M B07 240		136
1060	10	18		W		U	1	2787	Z		136
1061	10	19		CC	1	U	2	2788	F 1		137
1062	10	20	HALT2	H	0,133	U	7	2790	. 000 133		137
1063	10	21		B	HALT2	U	4	2797	B P90		137
1064	10	22	*								
1065	10	23	*		SUBROUTINE UNKNOWN						
1066	10	24	*								
1067	10	25	UNKWN	BWZ	ISUNK, 21, 2	U	8	2801	V Q21 021 2		137
1068	10	26		C	24, @	U	7	2809	C 024 241		137
1069	10	27		BE	BACK	U	5	2816	B X22 S		137
1070	10	28	ISUNK	MCW	@SUBROUTINE UNKNOWN@, 299	U	7	2821	M B25 299		138
1071	10	29		W		U	1	2828	2		138
1072	10	30		CC	L	U	2	2829	F L		138

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1073	10	31		CS	299	U	4	2831	/ 299		138
1074	10	32	LOOP4	B	READ	U	4	2835	B L24		138
1075	10	33		BW	SERCH, INSW	U	8	2839	V V84 273 1		138
1076	10	34		BW	SERCH, DELSW	U	8	2847	V V84 279 1		138
1077	10	35		B	LOOP4	U	4	2855	B Q35		139
1078	10	36	*								
1079	10	37	*		BAD CONTROL CARD						
1080	10	38	*								
1081	10	39	BADST	MCW	@BAD STATEMENT@, 299	U	7	2859	M B38 299		139
1082	10	40		W		U	1	2866	2		139
1083	10	41		CC	L	U	2	2867	F L		139
1084	10	42		CS	299	U	4	2869	/ 299		139
1085	10	43		CW	1&X2, 23	U	7	2873	) 0!1 023		139
1086	10	44		B	LOOP4	U	4	2880	B Q35		139
1087	10	45	*								
1088	10	46	*		STATEMENT DOES NOT EXIST IN SUBROUTINE						
1089	10	47	*								
1090	10	48	NTFND	MCW	@STATEMENT DOES NOT EXIST@, 299	U	7	2884	M B62 299		140
1091	10	49		W		U	1	2891	2		140
1092	10	50		CC	L	U	2	2892	F L		140
1093	10	51		CS	299	U	4	2894	/ 299		140
1094	10	52		BW	END99, ENDSW	U	8	2898	V R10 298 1		140
1095	10	53		B	LOOP4	U	4	2906	B Q35		140
1096	10	54	*								
1097	10	55	*		END OF LIBRARY REACHED BEFORE ROUTINE FOUND						
1098	10	56	*								
1099	10	57	END99	MCW	@SUBROUTINE UNKNOWN@, 299	U	7	2910	M B80 299		140
1100	10	58		W		U	1	2917	2		141
1101	10	59		CC	L	U	2	2918	F L		141
1102	10	60		CS	299	U	4	2920	/ 299		141
1103	10	61		MCW	@END OF LIBRARY REACHED@, 222	U	7	2924	M C02 222		141
1104	10	62		W		U	1	2931	2		141
1105	10	63		BSP	SYSTP	U	5	2932	U #U1 B		141
1106	10	64		CS	IMAGE&79	U	4	2937	/ 180		141
1107	10	65	LOOP6	B	READ	U	4	2941	B L24		142
1108	10	66		B	LOOP6	U	4	2945	B R41		142
1109	10	67		DCW	#50	U	50	2998			144
1110	10	68	BLANK	DC	#29	U	29	3027			145
1111	10	69		LIFORG	*	U			3028		
				DCW	&IMAGEU&13	U	3	3030	114	ADCON	145
				DCW	@999999@	U	6	3036		LIT	145
			NAMEU	DCW	#03	U	3	3039		AREA	146
				DCW	@ @	U	2	3041		LIT	146
				DCW	@DELET@	U	5	3046		LIT	146
				DCW	&2	U	1	3047		LIT	146
			OPSWU	DCW	#01	U	1	3048		AREA	146
				DCW	&1	U	1	3049		LIT	146
			WK1U	DCW	#04	U	4	3053		AREA	146
				DCW	@0@	U	1	3054		LIT	147
			WK2U	DCW	#04	U	4	3058		AREA	147

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		DCW	@DELET@	U	5	3063		LIT	147
	SEQSWU	DCW	#01	U	1	3064		AREA	147
		DCW	&INPUTU&13	U	3	3067	V13	ADCON	147
		DCW	@INSER@	U	5	3072		LIT	147
	INSWU	DCW	#01	U	1	3073		AREA	147
		DCW	@DELET@	U	5	3078		LIT	148
	DELSWU	DCW	#01	U	1	3079		AREA	148
		DCW	@REPET@	U	5	3084		LIT	148
	LSTSWU	DCW	#01	U	1	3085		AREA	148
		DCW	@HEADR@	U	5	3090		LIT	148
	HEDSWU	DCW	#01	U	1	3091		AREA	148
		DCW	@999999@	U	6	3097		LIT	148
	ENDSWU	DCW	#01	U	1	3098		AREA	149
		DCW	@1401 AUTOCODER - LIBRARY CHANGES@	U	32	3130		LIT	149
		DCW	@PAGE@	U	4	3134		LIT	149
	PGNOU	DCW	#03	U	3	3137		AREA	150
		DCW	@SEQ LABEL OP OPERANDS@	U	26	3163		LIT	150
	SEQNOU	DCW	#04	U	4	3167		AREA	150
		DCW	@INPUT CARDS OUT OF SEQUENCE - START OVER@	U	40	3207		LIT	152
		DCW	@SUBROUTINE UNKNOWN@	U	18	3225		LIT	152
		DCW	@BAD STATEMENT@	U	13	3238		LIT	152
		DCW	@STATEMENT DOES NOT EXIST@	U	24	3262		LIT	153
		DCW	@SUBROUTINE UNKNOWN@	U	18	3280		LIT	154
		DCW	@END OF LIBRARY REACHED@	U	22	3302		LIT	155
1112 10 70	3998	DCW	@}@	U	1	3998		GMARK	156
1113 10 71		EX	0	U			B 000		157

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1114 10 72		JOB	AUTOCODER-PASS 1 OUTPUT LIBRARY	-VERSION 3	U				
1115 10 73		SFX	P		P				
1116 10 74	SYSTP	EQU	%U1		P	%U1			
1117 10 75	XR1	EQU	89		P	0089			
1118 10 76		*							
1119 10 77		* BEGIN PROGRAM							
1120 10 78		*							
1121 10 79		ORG	2000		P	2000			
1122 10 80		SW	ENDOT		P	4 2000 , 244			160
1123 10 81		LCA	ENDOT,181		P	7 2004 L 244 181			160
1124 10 82		CS			P	1 2011 /			160
1125 10 83		CS	80		P	4 2012 / 080			160
1126 10 84		SW	6,16		P	7 2016 , 006 016			160
1127 10 85		CS	332		P	4 2023 / 332			160
1128 10 86		CS			P	1 2027 /			160
1129 10 87		CC	1		P	2 2028 F 1			161
1130 10 88	RWD	SYSTP			P	5 2030 U %U1 R			161
1131 10 89	RT	SYSTP,101			P	8 2035 M %U1 101 R			161
1132 10 90	CS	180			P	4 2043 / 180			161
1133 10 91	SW	106,116			P	7 2047 , 106 116			161
1134 10 92	SW	121			P	4 2054 , 121			161
1135 10 93	BSS	DOALL,E			P	5 2058 B L28 E			161
1136 10 94		*							
1137 10 95		* PRINT AND/OR PUNCH SELECTED MACROS							
1138 10 96		*							
1139 10 97		READ	CC HDRSW		P	4 2063 ) R32			162
1140 10 98			1		P	2 2067 F 1			162
1141 10 99		B	PRTHD		P	4 2069 B N59			162
1142 11 00		R			P	1 2073 1			162
1143 11 01		MCW	@2@,OPCOD		P	7 2074 M Q90 O69			162
1144 11 02		C	20,@PRINT@		P	7 2081 C 020 Q95			162
1145 11 03		BE	SELMC		P	5 2088 B J19 S			162
1146 11 04		C	20,@PUNCH@		P	7 2093 C 020 R00			163
1147 11 05		BU	ERROR		P	5 2100 B N06 /			163
1148 11 06		*							
1149 11 07		* PUNCH OPTION							
1150 11 08		*							
1151 11 09		A	&4,OPCOD		P	7 2105 A R01 O69			163
1152 11 10		MN	&4,OPSAV#1		P	7 2112 D R01 R02			163
1153 11 11		*							
1154 11 12		* SEARCH FOR MACRO							
1155 11 13		*							
1156 11 14	SELMC	C	&,NAME#3		P	7 2119 C 008 R05			163
1157 11 15		BE	TSTLC		P	5 2126 B K96 S			163
1158 11 16		MCW	20,218		P	7 2131 M 020 218			164
1159 11 17		MCW	11,212		P	7 2138 M 011 212			164
1160 11 18		BL	RDP2		P	5 2145 B J85 T			164
1161 11 19		RWD	SYSTP		P	5 2150 U %U1 R			164
1162 11 20		LCA	ENDOT,181		P	7 2155 L 244 181			164
1163 11 21		RT	SYSTP,101		P	8 2162 M %U1 101 R			164

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1164	11	22		CS	180	P	4	2170	/ 180		165
1165	11	23		SW	106,116	P	7	2174	, 106 116		165
1166	11	24		SW	121	P	4	2181	, 121		165
1167	11	25	RDTP2	RT	SYSTP,101	P	8	2185	M %U1 101 R		165
1168	11	26		B	NOISE	P	4	2193	B P67		165
1169	11	27		BER	RDERR	P	5	2197	B Q06 L		165
1170	11	28		C	111,@999999@	P	7	2202	C 111 R11		165
1171	11	29		BE	UNKN	P	5	2209	B L05 S		166
1172	11	30		C	120,@HEADR@	P	7	2214	C 120 R16		166
1173	11	31		BU	RDTP2	P	5	2221	B J85 /		166
1174	11	32		C	8,108	P	7	2226	C 008 108		166
1175	11	33		BU	RDTP2	P	5	2233	B J85 /		166
1176	11	34		*							
1177	11	35		*	DESIRED MACRO FOUND						
1178	11	36		*							
1179	11	37		MCW	8,NAME	P	7	2238	M 008 R05		166
1180	11	38		CC	K	P	2	2245	F K		166
1181	11	39		W		P	1	2247	2		167
1182	11	40		S	SEQNO	P	4	2248	S R48		167
1183	11	41		B	INSER	P	4	2252	B N17		167
1184	11	42		CC	K	P	2	2256	F K		167
1185	11	43	PTAGN	B	PRINT	P	4	2258	B N81		167
1186	11	44		RT	SYSTP,101	P	8	2262	M %U1 101 R		167
1187	11	45		B	NOISE	P	4	2270	B P67		167
1188	11	46		BER	RDERR	P	5	2274	B Q06 L		168
1189	11	47		C	120,@HEADR@	P	7	2279	C 120 R21		168
1190	11	48		BU	PTAGN	P	5	2286	B K58 /		168
1191	11	49		BSP	SYSTP	P	5	2291	U %U1 B		168
1192	11	50		*							
1193	11	51		*	TEST END OF RUN						
1194	11	52		*							
1195	11	53	TSTLC	BLC	EOJOB	P	5	2296	B M54 A		168
1196	11	54		B	READ	P	4	2301	B !67		168
1197	11	55		*							
1198	11	56		*	MACRO NOT ON TAPE						
1199	11	57		*							
1200	11	58	UNKN	MCW	@UNKNOWN@,299	P	7	2305	M R28 299		168
1201	11	59		W		P	1	2312	Z		169
1202	11	60		CS	299	P	4	2313	/ 299		169
1203	11	61		MCW	@999@,NAME	P	7	2317	M R31 R05		169
1204	11	62		B	TSTLC	P	4	2324	B K96		169
1205	11	63		*							
1206	11	64		*	PRINT AND/OR PUNCH ALL OR PRINT HEADERS ONLY						
1207	11	65		*							
1208	11	66	DOALL	BSS	SETUP,D	P	5	2328	B L60 D		169
1209	11	67		CW	HDRSW#1	P	4	2333	) R32		169
1210	11	68		BSS	*45,G	P	5	2337	B L46 G		169
1211	11	69		B	SETUP	P	4	2342	B L60		170
1212	11	70		*							
1213	11	71		*	PUNCH ALL						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1214	11	72		*							
1215	11	73		A	44,OPCOD	P	7	2346	A R01 069		170
1216	11	74		MN	44,OPSAV	P	7	2353	D R01 R02		170
1217	11	75	SETUP	B	HEAD1	P	4	2360	B P19		170
1218	11	76		CW	HDSW1#1	P	4	2364	) R33		170
1219	11	77		B	PRTHD	P	4	2368	B M59		170
1220	11	78	RDTP	RT	SYSTP,101	P	8	2372	M %U1 101 R		170
1221	11	79		B	NOISE	P	4	2380	B P67		171
1222	11	80		BER	RDERR	P	5	2384	B Q06 L		171
1223	11	81		C	111,@999999@	P	7	2389	C 111 R39		171
1224	11	82		BE	EOJOB	P	5	2396	B M54 S		171
1225	11	83		C	120,@HEADR@	P	7	2401	C 120 R44		171
1226	11	84		BU	DOPNT	P	5	2408	B M35 /		171
1227	11	85		B	INSER	P	4	2413	B N17		171
1228	11	86		CC	K	P	2	2417	F K		172
1229	11	87		SBR	PRTXT&3,*46	P	7	2419	H 083 M31		172
1230	11	88		BCV	NEWPG	P	5	2426	B 097 @		172
1231	11	89		S	SEQNO#4	P	4	2431	S R48		172
1232	11	90	DOPNT	B	PRINT	P	4	2435	B N81		172
1233	11	91		SW	106,116	P	7	2439	, 106 116		172
1234	11	92		SW	121	P	4	2446	, 121		172
1235	11	93		B	RDTP	P	4	2450	B L72		173
1236	11	94		*							
1237	11	95		*	END OF JOB						
1238	11	96		*							
1239	11	97	EOJOB	CS	332	P	4	2454	/ 332		173
1240	11	98		CS		P	1	2458	/		173
1241	11	99		CC	K	P	2	2459	F K		173
1242	12	00		MCW	@END OF LIBRARY@,214	P	7	2461	M R62 214		173
1243	12	01		W		P	1	2468	2		173
1244	12	02		CC	1	P	2	2469	F 1		173
1245	12	03		CS	180	P	4	2471	/ 180		174
1246	12	04		BCE	CLRPH,OPSAV,4	P	8	2475	B M99 R02 4		174
1247	12	05	RWD	RWD	SYSTP	P	5	2483	U %U1 R		174
1248	12	06	HALT	H	0,155	P	7	2488	. 000 155		174
1249	12	07		B	HALT	P	4	2495	B M88		174
1250	12	08	CLRPH	P		P	1	2499	4		174
1251	12	09		SS	@	P	2	2500	K 8		174
1252	12	10		B	RWD	P	4	2502	B M83		175
1253	12	11		*							
1254	12	12		*	INCORRECT INPUT CARD						
1255	12	13		*							
1256	12	14	ERROR	H	0,144	P	7	2506	. 000 144		175
1257	12	15		B	TSTLC	P	4	2513	B K96		175
1258	12	16	INSER	SBR	INSXT&3	P	4	2517	H N58		175
1259	12	17		MCW	@ @,105	P	7	2521	M R67 105		175
1260	12	18		MCW	@INSER@,120	P	7	2528	M R72 120		175
1261	12	19		BCE	*45,OPSAV,4	P	8	2535	B N47 R02 4		176
1262	12	20		B	*42	P	4	2543	B N48		176
1263	12	21		P		P	1	2547	4		176

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1264	12	22		MCW	@HEADR@,120	P	7	2548	M R77 120		176
1265	12	23	INSXT	B	0	P	4	2555	B 000		176
1266	12	24	*								
1267	12	25	*		PRINT HEADING						
1268	12	26	*								
1269	12	27	PRTHD	SBR	HDXT&3	P	4	2559	H N80		176
1270	12	28	MCW	@SEQ	LABEL OP OPERANDS@,227	P	7	2563	M 703 227		176
1271	12	29		W		P	1	2570	Z		177
1272	12	30		CC	K	P	2	2571	F K		177
1273	12	31		CS	228	P	4	2573	/ 228		177
1274	12	32	HDXT	B	0	P	4	2577	B 000		177
1275	12	33	*								
1276	12	34	*		PRINT STATEMENT						
1277	12	35	*								
1278	12	36	PRINT	SBR	PRTXT&3	P	4	2581	H 083		177
1279	12	37		C	120,@HEADR@	P	7	2585	C 120 208		177
1280	12	38		BE	DOHDR	P	5	2592	B 005 S		177
1281	12	39		BW	CLR,HDRSW	P	8	2597	V 070 R32 1		178
1282	12	40	DOHDR	CS	332	P	4	2605	/ 332		178
1283	12	41		CS		P	1	2609	/		178
1284	12	42		BCE	COMNT,106,*	P	8	2610	B 084 106 *		178
1285	12	43		MCW	172,271	P	7	2618	M 172 271		178
1286	12	44		MCW	120,218	P	7	2625	M 120 218		178
1287	12	45		MCW	111,212	P	7	2632	M 111 212		179
1288	12	46	DOSEQ	MN	SEQNO,204	P	7	2639	D R48 204		179
1289	12	47		MCS		P	1	2646	Z		179
1290	12	48		MN	SEQNO,104	P	7	2647	D R48 104		179
1291	12	49		MCW		P	1	2654	M		179
1292	12	50		A	&1,SEQNO	P	7	2655	A 709 R48		179
1293	12	51		MCW	@ @,105	P	7	2662	M 710 105		179
1294	12	52	OPCOD	W		P	1	2669	Z		180
1295	12	53	CLR	CS	332	P	4	2670	/ 332		180
1296	12	54		CS		P	1	2674	/		180
1297	12	55		BCV	NEWPG	P	5	2675	B 097 @		180
1298	12	56	PRTXT	B	0	P	4	2680	B 000		180
1299	12	57	COMNT	MCW	172,273	P	7	2684	M 172 273		180
1300	12	58		MCW		P	1	2691	M		180
1301	12	59		MCW		P	1	2692	M		181
1302	12	60		B	DOSEQ	P	4	2693	B 039		181
1303	12	61	*								
1304	12	62	*		START NEW PAGE						
1305	12	63	*								
1306	12	64	NEWPG	CC	1	P	2	2697	F 1		181
1307	12	65		BW	*&5,HDSW1	P	8	2699	V P11 R33 1		181
1308	12	66		B	HEAD1	P	4	2707	B P19		181
1309	12	67		B	PRTHD	P	4	2711	B N59		181
1310	12	68		B	PRTXT	P	4	2715	B 080		181
1311	12	69	*								
1312	12	70	*		PRINT MAIN HEADING						
1313	12	71	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1314	12	72	HEAD1	SBR	HD2XT&3	P	4	2719	H P66		182
1315	12	73		CS	332	P	4	2723	/ 332		182
1316	12	74		CS		P	1	2727	/		182
1317	12	75		MCW	@1401 AUTOCODER - LIBRARY@,243	P	7	2728	M 734 243		182
1318	12	76		MCW	@PAGE@,275	P	7	2735	M 738 275		182
1319	12	77		A	&1,PGNO#3	P	7	2742	A 709 241		182
1320	12	78		MCS	PGNO,279	P	7	2749	Z 741 279		182
1321	12	79		W		P	1	2756	Z		183
1322	12	80		CC	L	P	2	2757	F L		183
1323	12	81		CS	299	P	4	2759	/ 299		183
1324	12	82	HD2XT	B	0	P	4	2763	B 000		183
1325	12	83	*								
1326	12	84	*		TEST FOR NOISE RECORDS						
1327	12	85	*								
1328	12	86	NOISE	SBR	NOSXT&3	P	4	2767	H Q05		183
1329	12	87		SBR	XR1	P	4	2771	H 089		183
1330	12	88		MZ	&9,XR1	P	7	2775	Y 242 089		183
1331	12	89		BCE	4000-12&X1,113,}	P	8	2782	B IY8 113 }	GMARK	184
1332	12	90		CHAIN	12	P				MACRO	
1333				BCE		P	1	2790	B	GEN	184
1334				BCE		P	1	2791	B	GEN	184
1335				BCE		P	1	2792	B	GEN	184
1336				BCE		P	1	2793	B	GEN	184
1337				BCE		P	1	2794	B	GEN	184
1338				BCE		P	1	2795	B	GEN	184
1339				BCE		P	1	2796	B	GEN	185
1340				BCE		P	1	2797	B	GEN	185
1341				BCE		P	1	2798	B	GEN	185
1342				BCE		P	1	2799	B	GEN	185
1343				BCE		P	1	2800	B	GEN	185
1344				BCE		P	1	2801	B	GEN	185
1345	12	91	NOSXT	B	0	P	4	2802	B 000		185
1346	12	92	*								
1347	12	93	*		READ REDUNDANCY ROUTINE						
1348	12	94	*								
1349	12	95	RDERR	SBR	RDXT&3	P	4	2806	H Q38		186
1350	12	96	BSP	BSP	SYSTP	P	5	2810	U #U1 B		186
1351	12	97		MCW	&9,RDCT#1	P	7	2815	M 742 243		186
1352	12	98	RDTRY	RT	SYSTP,101	P	8	2822	M #U1 101 R		186
1353	12	99		BER	*&5	P	5	2830	B Q39 L		186
1354	13	00	RDXT	B	0	P	4	2835	B 000		186
1355	13	01		BSP	SYSTP	P	5	2839	U #U1 B		186
1356	13	02		S	&1,RDCT	P	7	2844	S 709 243		187
1357	13	03		BWZ	RDTRY,RDCT,B	P	8	2851	V Q22 243 B		187
1358	13	04		H	0,191	P	7	2859	. 000 191		187
1359	13	05		RT	SYSTP,101	P	8	2866	M #U1 101 R		187
1360	13	06		BSS	BSP,E	P	5	2874	B Q10 E		187
1361	13	07		H	0,111	P	7	2879	. 000 111		188
1362	13	08		B	RDXT	P	4	2886	B Q35		188
1363	13	09		LTORG	*	P			2890		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@2@	P	1	2890	LIT		188
				DCW	@PRINT@	P	5	2895	LIT		188
				DCW	@PUNCH@	P	5	2900	LIT		188
				DCW	&4	P	1	2901	LIT		188
			OPSAVP	DCW	#01	P	1	2902	AREA		188
			NAMEP	DCW	#03	P	3	2905	AREA		189
				DCW	@999999@	P	6	2911	LIT		189
				DCW	@HEADR@	P	5	2916	LIT		189
				DCW	@HEADR@	P	5	2921	LIT		189
				DCW	@UNKNOW@	P	7	2928	LIT		189
				DCW	@999@	P	3	2931	LIT		189
			HDRSWP	DCW	#01	P	1	2932	AREA		189
			HDSW1P	DCW	#01	P	1	2933	AREA		190
				DCW	@999999@	P	6	2939	LIT		190
				DCW	@HEADR@	P	5	2944	LIT		190
			SEQNOP	DCW	#04	P	4	2948	AREA		190
				DCW	@END OF LIBRARY@	P	14	2962	LIT		190
				DCW	@	P	5	2967	LIT		190
				DCW	@INSER@	P	5	2972	LIT		191
				DCW	@HEADR@	P	5	2977	LIT		191
				DCW	@SEQ LABEL OP OPERANDS@	P	26	3003	LIT		191
				DCW	@HEADR@	P	5	3008	LIT		192
				DCW	&1	P	1	3009	LIT		192
				DCW	@	P	1	3010	LIT		192
				DCW	@1401 AUTOCODER - LIBRARY@	P	24	3034	LIT		192
				DCW	@PAGE@	P	4	3038	LIT		192
			PGNOP	DCW	#03	P	3	3041	AREA		192
				DCW	&9	P	1	3042	LIT		192
			RDCTP	DCW	#01	P	1	3043	AREA		193
1364	13	10	ENDOT	DCW	@}@	P	1	3044	GMARK		193
1365	13	11	EX			P			B 000		194
1366	13	12	END			P			/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABIT	107	ADDU	1950	AGAINR	2102	ALLU	1742	BACKU	1722	BADSTU	2859	BDEOFU	750
BEGINU	1500	BLANKU	3027	BSP	995	BSP1U	827	BSP2U	863	BSP3U	957	BSPB	698
BSPCU	2110	BSPP	2810	BUMPU	2753	BYCTB	807	BYCTU	1072	BYPIU	2290	BYPSSU	411
CARD	0	CDXTU	2405	CKDELU	2368	CKREPU	2388	CKSEQ	726	CLEAR	702	CLEARB	342
CLEARU	1021	CLNUPU	2240	CLRB	497	CLRP	2670	CLRPH	2499	CLRU	1032	CLRWMU	2004
CLXTU	1052	CNVRT	478	COMNTP	2684	COMNTU	2732	COMP1	429	COMP2	607	COMP2U	2078
COMPU	2031	COPYU	525	CPYNDU	692	CRDR	917	CTLXTU	2633	DELSWU	3079	DOALLP	2328
DOCOR	538	DOCTLU	2594	DOHDRP	2605	DOOUTU	2307	DOPTP	2435	DOPSAB	1900	DOSEQ	941
DOSEQP	2639	END99U	2910	ENDOTP	3044	ENDRTR	2212	ENDSQ	962	ENDSWU	3098	ENDUPU	1139
EOPSWU	1080	EOPU	601	EOJOB	877	EOJOBP	2454	ERASEU	637	ERRORP	2506	EXITU	1777
FINALU	2260	FLOAT	406	FOUNDU	1730	GETR	2154	GETUPU	448	GMRK1B	835	GOTITU	2070
HALT	906	HALT1B	407	HALT1U	669	HALT2	930	HALT2U	2790	HALTP	2488	HD2TTP	2763
HDRSWP	2932	HDSW1P	2933	HDXTP	2577	HDXTU	2590	HEAD1P	2719	HEADRU	1656	HEADU	2532
HEDSWU	3091	HOLD5	1099	IMAGEU	101	INPUTU	1500	INSERP	2517	INSERU	1806	INSRU	2173
INSWU	3073	INSXTP	2555	IS2OPU	2000	ISMORU	727	ISUNKU	2821	LDUPDU	498	LIBRNB	521
LIBSWU	1079	LISTR	2126	LOADDB	11	LOOP1B	362	LOOP1U	1628	LOOP2B	441	LOOP2U	1757
LOOP3U	1810	LOOP4U	2835	LOOP6U	2941	LOPSAB	476	LSTCDU	2409	LSTSWU	3085	LTAPSW	2725
MACRO	792	MOREU	1648	NAMEP	2905	NAMEU	3039	NEWPGP	2697	NEWPGU	2658	NEWXTU	2668
NOBIT	106	NOIS2B	652	NOIS2U	774	NOISEB	637	NOISEP	2767	NOISEU	759	NOSXTB	672
NOSXTP	2802	NOSXTU	794	NTFNDU	2884	NXTBK	362	NXTOPU	1942	ONOPU	2220	OPCODEP	2669
OPSAVP	2902	OPSWU	3048	OUTAPU	506	OUTPTB	558	OUTU	2008	OUTXTU	2320	PARTLU	1846
PASSAB	1650	PASTU	1689	PGNOP	3041	PGNOU	3137	PRINT	200	PRINTP	2581	PRINTU	2672
PRTHDP	2559	PRTXTP	2680	PTAGNP	2258	PTCTLU	2637	PTCXTU	2654	PTXTU	2771	QINSRU	2146
QUITU	2775	RDCDU	2340	RDCTB	812	RDCTP	3043	RDCTR	2207	RDCTU	1130	RDERRB	676
RDERRP	2806	RDERRR	2046	RDERRU	798	RDTP2P	2185	RDTPP	2372	RDTFU	2417	RDTRYB	710
RDRTRP	2822	RDRTRYR	2058	RDRTRYU	839	RDXTB	723	RDXTP	2835	RDXTU	852	READP	2067
READU	2324	REBEGU	1560	REOUTU	593	REPETU	2236	RETRY	1020	RTXTU	2491	RWDP	2483
SELMCP	2119	SEQER	760	SEQNCU	2745	SEQNO	1087	SEQNOP	2948	SEQNOU	3167	SEQSWU	3064
SEQXT	756	SERCHU	1584	SETUPP	2360	SETWM	596	SKPCTU	1082	SOMEU	1881	START	333
STARTR	2009	SUB1	527	SUB2	471	SUBCT	1037	SUBCTU	999	SWICHU	556	SYSTP	%U1
SYSTPB	%U1	SYSTPP	%U1	SYSTPR	%U1	SYSTPU	%U1	TEST1U	1885	THRUU	2126	TSTLCP	2296
TSTSQU	2716	TSTSSB	418	TWOOPU	1916	UNKNP	2305	UNKNWU	2801	UPDSWU	1126	WK1U	3053
WK2U	3058	WORK5	1119	WT2XTU	2528	WTAP1	675	WTAP1U	580	WTAP2	830	WTAP2U	2495
WICT	1255	WICTU	1132	WTERR	973	WTERRU	928	WTIM	868	WTRYU	982	WTXT	1033
WXTU	995	XR1	89	XR1B	89	XR1P	89	XR1U	89	XR2	94	XR2U	94
XR3	99	XR3U	99	XXXX	0	ZONE	109						

\*\*\*\*\* \*\* 3 Errors

ERROR