

POUGHKEEPSIE
DEPT. 255
BUILDING 990

November 13, 1961

SUBJECT: 7080 4-Channel Full File Program

The attached subject program write-up of nine pages, dated November 13, 1961, obsoletes and replaces the previous program write-up of three pages, dated August 24, 1961.

DIAGNOSTIC DEVELOPMENT
Poughkeepsie, New York
Dept. B59, Bldg. 965
April 17, 1963

M.C. Electronics 408-31
50 Westgate Avenue
Seattle, Washington
For - Boeing

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Addendum to 4-CHAN
7080 4 - Channel Full File

System 20K
System 10K
Card OK

The following changes to the program deck and listing provide modifications and improvements to 4-CHAN.

The master card image tape should be updated using 8ED01, with the enclosed cards; or the changes made to the card deck, depending on how the program is maintained.

The changes include the following:

1. Elimination of tape drive 2000 usage; this allows program read in without having to reset the program tape.
2. Console Interrupt 251 - Kills and restores (alternately) short error typeout during write pass.
3. Console Interrupt 252 - Immediate termination of write pass.
4. A check of the sequential record number (characters 1-5 of each record) during read pass to determine if any records duplicated or missed during write pass.
5. Shortening of summary typeouts and elimination of others to reduce typing time.

Program Card Changes:

<u>Card No.</u>	<u>Cols.</u>	<u>Old Card</u>	<u>New Card</u>	<u>IC</u>
023	26 ✓	R	A	0174
	31 ✓	R	A	0179
	65 ✓	O	1	0209
	71-75 ✓	10279	1U14R54149	0219
025	66 ✓	R	A	0334
026	61-65 ✓	10449	1U18M	0389
028	56 ✓	R	A	0504
029	51-55 ✓	10619	1U21R	0559
031	46 ✓	R	A	0674
032	41-45 ✓	10789	1U25M	0729
034	36 ✓	R	A	0844
041	21-25 ✓	R0110	1S89R	1249
042	46-50 ✓	R0685	1T08M	1334
043	71-75 ✓	RJ160	1T26R	1419
045	36-40 ✓	RJ635	1T45M	1504
047	35 ✓	O	1	1619
049	35 ✓	P	Q	1739
050	45 ✓	O	1	1809

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November 13, 1961

7080 4-Channel Full File Program

A. Program Description

The 7080 4-Channel Full File Program was written in the Product Testing Laboratory in Poughkeepsie. The program is designed to check the reading and writing reliability of 729 II and 729 IV tape drives. It will process tape on any drive that is ready. Up to ten drives on each of four channels can be exercised. From the print-outs at the end of either the write or read passes, one can determine which drive or drives in the tape system is producing the most write or read errors. In addition, the printouts can aid in determining the causes of the write or read errors. When permanent read errors are encountered, character by character compares of the error records are made. The program is written in interrupt mode so that simultaneous writing and simultaneous reading is accomplished.

Along with the appropriate tape and channel diagnostics, this program can be used for tape system checkouts.

B. Operating Instructions

1. Load 0100

2. Setting of Alteration Switches as follows:

- a. 911 ON - To write fixed length records - 2400 characters.
911 OFF - To write variable length records - 50 to 4000 characters.

- b. 914 ON — ~~P E M A I N I N C & R E P E A T P R O G~~
~~914 ON~~ → ~~To print out on printer all read and write errors~~
~~913 ON~~ → ~~and total error counters.~~
~~913 OFF~~ → ~~Same information above will print out on typewriter.~~
~~914 OFF~~ → ~~FR TO CAR IN NEXT PROG.~~

- c. 915 ON - Operate at LOW Density.
915 OFF - Operate at HIGH Density.

- d. 916 ON - Stop if write check.
916 OFF - Bypass stop if write check.

3. Write Operation

During the write operation, when write checks occur, a second attempt is made to rewrite the error record on the same location

of tape. If a second write check occurs with the error record, a backspace and skip will follow. The temporary error counters at the end of the write pass indicate the number of error records which corrected on a retry of the same location. The number of skips are self-explanatory. A total by channel is taken on each of the error sense bits which came on during write checks. During writing, the drive select address, the record number, and the character configuration of the sense bits are typed or printed on the printer for each write checks. These typeouts can be eliminated by storing an A in the following locations:

for Channel	20	2590
	21	3720
	22	4850
	23	5980

This program essentially writes full reels of tape on each drive. It writes until it senses EOF on a drive. It then writes tapemarks and rewinds all drives on that particular channel. It continues to process the remaining channels. If a full reel of tape is not desired, store the desired number of records at location 22590, 5 digits unsigned (Example: 01000 for 1000 records).

4. Read Operation

During the read operation, nine reread attempts are made to correct read error. If it doesn't correct with nine retries, the tape is backspaced three records so that the error record is passed over the cleaner blade and then another attempt is made to read the record. If it still is in error a permanent error message will type out. Turn 901 to program so that the bit configuration of the bad character from tape and the good character from the master record can type out. Turning 915 on at this time will bypass the bit configuration typeouts. Pressing start will continue the program. Putting 912 on will cause you to stay within the permanent error routine. Temporary error counters, by drive, are printed or typed at the end of each pass. Error sense bit counters, by channel, are also printed out.

While reading or writing the tapes, any drive can be eliminated from the operation by resetting it, providing it is not the only drive on the channel or it is not selected within an error routine at the time you desire to eliminate it.

After a read pass, pressing start will start another read pass. To rewrite tapes, the program must be read in again.

To eliminate the individual read error typeouts, store an "A" in each of the following locations:

For Channel	20	7140
	21	8830
	22	10545
	23	12225

5. Halts

- a. J1111 - Halt after initial typeout to allow alteration switch setting.
- b. J2222 - At this halt, Alteration Switch 915 must be off.
- c. J2X00 - Halt if 916 ON, on "X" channel.
- d. J7777 - This halt will occur if 915 is turned ON while program is running. The program will halt during main frame, CPU, operation (not in interrupt program), the same as manually stopping.
- e. J8888 - End of Write phase. Press start to read.
- f. J9999 - End of Read phase. Press start to re-read.

6. Check Switches

- a. All checks should be set to automatic. Turn 901 to program as detailed in section 4 as conditions indicate.

C. Write and Read Areas

The write and read areas for channels 20 through 23 utilize the following memory locations.

Channel 20 - 30,000 through 33,999
Channel 21 - 35,000 through 38,999
Channel 22 - 40,000 through 43,999
Channel 23 - 45,000 through 48,999

Prior to Writing, the records are transmitted to the respective write areas from the master record area located in memory locations 25,000 through 28,999.

D. Record Structure

Characters 1 - 5 of each record contain the record number.

Characters 6 - 9 contain information utilized by the compare routines in determining the location of the master record to compare with

Example: N005 equals 25,005.

Characters 10 - 13 specify the length of the record.

E. Record Lengths

2400 characters are used for fixed length records. When running variable length records, the following record sizes are used:

2400 characters ✓
1700 characters ✓
3300 characters ✓
50 characters ✓
4000 characters ✓
1400 characters ✓
2500 characters ✓
2000 characters ✓
3000 characters ✓
2700 characters ✓

F. Record Length Checking

The following items are checked for in the length check routines.

1. Correct record lengths.
2. Records which are too long.
3. Records which are too short.
4. Noise records (eleven characters or less)

When records are too long or too short, typeouts will indicate what the record length was, and what the record length should have been.

Example: 3990*

4000

The figure with the asterisk indicates the actual length of the record.

The following is a listing of all Program Halts that may be encountered running
the 7080 4-channel Full File Program. There are duplications of halt numbers.
Therefore, when program halts are encountered, the IC location should be displayed to determine option to take.

<u>Halt</u>	<u>IC Location</u>	<u>Reason</u>	<u>Options</u>
1111	0204	To Set Alt. Switches	Set Switches, Start
2222	0994	Option for writing or reading.	Turn off 915 if it was on for low density operation. Start for write operation. TR to 1584 for read operation.
8888	1579	End of Write Pass.	Start for Read Operation.
3333	1779	Lip 2000 failed.	Start to continue.
3130	1949	Lip 2000 failed.	Start to continue.
2000	1469	Halt on write check with 916 on.	Start to continue.
5550	2304	Five skips writing one record channel 20	Start to continue. To discontinue drive, make drive not ready, start.
3131	2914	Lip 2100 failed.	Start to continue.
3131	3079	Lip 2100 failed.	Start to continue.
2100	3099	Halt on write check with 916 on.	Start to continue.
5551	3434	Five skips writing one record channel 21.	Start to continue. To discontinue drive, make drive not ready, start.
2222	4044	Lip 2200 failed.	Start to continue.
2120	4209	Lip 2200 failed.	Start to continue.
2200	4229	Halt on write check with 916 on.	Start to continue.
5552	4564	Five skips writing one record channel 22.	Start to continue. To discontinue drive, make drive not ready, start.

<u>Halt</u>	<u>IC Location</u>	<u>Reason</u>	<u>Options</u>
2323	5174	Lip 2300 failed.	Start to continue.
2323	5339	Lip 2300 failed.	Start to continue.
2300	5359	Halt on write check with 916 on.	Start to continue.
5253	5694	Five skips writing one record channel 23.	Start to continue. To discontinue drive, make drive not ready, start.
7777	6229	Main frame program halt with 915 on.	Turn off 915, start.
9999	6579	End of read pass.	Start for next read pass.
6789	7319	Length check channel 20.	Start to continue.
6996	7349	Exceeded 9 retries on temporary read error, channel 20. This halt should not occur.	Start for permanent error routine.
9559	8154	Cleaner backspace routine halt channel 20.	Follow typeout instructions prior to halt.
9229	8214	Permanent read error channel 20.	Turn 912 on to repeat permanent error routine Start to continue.
8880	8324	Length check causing permanent read error channel 20.	Start to continue.
8888	8469	Lip 2000 failed.	Start to continue.
6789	9009	Length check channel 21.	Start to continue.
9669	9039	Exceeded 9 retries on temporary read error channel 21. This halt should not occur.	Start for permanent error routine.

<u>Halt</u>	<u>IC Location</u>	<u>Reason</u>	<u>Option</u>
9559	9869	Cleaner back space routine halt channel 21.	Follow typeout instructions prior to halt.
9229	9929	Permanent read error channel 21.	Turn 912 on to repeat permanent error routine. Start to continue.
8880	10039	Length check causing permanent read error channel 21.	Start to continue.
8888	10184	Lip 2100 failed.	Start to continue.
6789	10724	Length check channel 22.	Start to continue.
9669	10754	Exceeded 9 retries on temporary read error channel 22.	Start for permanent error routine.
9559	11549	Cleaner backspace routine halt channel 22.	Follow typeout instructions prior to halt.
9229	11609	Permanent read error channel 22.	Turn 912 on to repeat permanent error routine. Start to continue.
8880	11719	Length check causing permanent read error channel 22.	Start to continue.
8888	11864	Lip 2200 failed.	Start to continue.
6789	12404	Length check channel 23.	Start to continue.
9669	12434	Exceeded 9 retries on temporary read error channel 23. This halt should not occur.	Start for permanent error routine.
9559	13264	Cleaner backspace routine halt channel 23.	Follow typeout instructions prior to halt.

<u>Halt</u>	<u>IC Location</u>	<u>Reason</u>	<u>Options</u>
9229	13324	Permanent read error channel 23.	Turn 912 on to repeat permanent error routine. Start to continue.
8880	13434	Length check causing permanent read error channel 23.	Start to continue.
8888	13579	Lip 2300 failed.	Start to continue.
6996	14159	Bit compare routine halt which should not occur.	Start to continue.



INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
DA54	UNSIGNED LITERAL	11			RW REG VRC				050498						
DA55	UNSIGNED LITERAL	11			901 TCT 20				050509						
DA56	UNSIGNED LITERAL	11			901 TCT 21				050520						
DA57	UNSIGNED LITERAL	11			901 TCT 22				050531						
DA58	UNSIGNED LITERAL	11			901 TCT 23				050542				010		
DA59	UNSIGNED LITERAL	12			PERM RD ERROR				050554						
DA60	UNSIGNED LITERAL	12			READY TABLE				050566						
DA61	UNSIGNED LITERAL	13			NOISE RECORD				050579						
DA62	UNSIGNED LITERAL	14			COMPUTE ERROR				050593						
DA63	UNSIGNED LITERAL	14			PERM RD ERROR				050607				011		
DA64	UNSIGNED LITERAL	14			RETRY S CHAN 23				050621						
DA65	UNSIGNED LITERAL	14			SKIPS CHAN 20				050635						
DA66	UNSIGNED LITERAL	14			SKIPS CHAN 21				050649						
DA67	UNSIGNED LITERAL	14			SKIPS CHAN 22				050663				012		
DA68	UNSIGNED LITERAL	14			SKIPS CHAN 23				050677						
DA69	UNSIGNED LITERAL	16			LIP 2000 FAILED				050693						
DA70	UNSIGNED LITERAL	16			LIP 2100 FAILED				050709						
DA71	UNSIGNED LITERAL	16			LIP 2200 FAILED				050725				013		
DA72	UNSIGNED LITERAL	16			LIP 2300 FAILED				050741						
DA73	UNSIGNED LITERAL	16			REPOSITION TAPE				050757						
DA74	UNSIGNED LITERAL	17			END OF READ PASS				050774						
DA75	UNSIGNED LITERAL	17			NOT EQUAL NO 901				050791				014		
DA76	UNSIGNED LITERAL	17			REPOSITION TAPES				050808						
DA77	UNSIGNED LITERAL	19			CORRECTED RD ERROR				050827						
DA78	UNSIGNED LITERAL	19			NOT EQUAL, NO 901				050846				015		
DA79	UNSIGNED LITERAL	19			OK CLEANER ROUTINE				050865						
DA80	UNSIGNED LITERAL	21			NO RD ERRORS CHAN 23				050886						
DA81	UNSIGNED LITERAL	23			BAD ON CLEANER ROUTINE				050909				016		
DA82	UNSIGNED LITERAL	23			END OF WR PASS				050932						
DA83	UNSIGNED LITERAL	23			NO CHAN 20 TAPES READY				050955						
DA84	UNSIGNED LITERAL	23			NO CHAN 21 TAPES READY				050978				017		
DA85	UNSIGNED LITERAL	23			NO CHAN 22 TAPES READY				051001						
DA86	UNSIGNED LITERAL	23			NO CHAN 23 TAPES READY				051024				018		
DA87	UNSIGNED LITERAL	23			7080 FOUR CHAN PROGRAM				051047						
DA88	UNSIGNED LITERAL	27			RESET DRIVE TO DISCONTINUED				051074						
DA89	UNSIGNED LITERAL	31			LENGTH CHK-SHORT 1 TO 4 CHARS				051105				019		
DA90	UNSIGNED LITERAL	33			PERM ERR DUE TO INCORRECT LENGTH				051138						
DA91	UNSIGNED LITERAL	34			AND RECORD NUMBERS DO NOT COMPARE				051172				020		
DA92	UNSIGNED LITERAL	34			BUT RECORD NUMBERS DO NOT COMPARE				051206				021		
DA93	UNSIGNED LITERAL	36			TO REPEAT ERROR ROUTINE TURN ON 912				051242						
DA94	UNSIGNED LITERAL	43			TO READ TAPES, MANUALLY TRANSFER TO		□		051285				022		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF		
AA 01		TITLE	TESTING LABORATORY 7080 FOUR CHANNEL PROGRAM												101		
AA 02		TITLE	G.A.DIAMANTI, K.BABCOCK												0102		
AA 03		TITLE	*** OPERATING INSTRUCTIONS ***												0103		
AA 04		TITLE	TO STOP PROGRAM IN COMPUTE LOOP, TURN 915 ON. TO												0104		
AA 05		TITLE	CONTINUE PROGRAM, TURN 915 OFF AND START												0105		
AA 06		TITLE	911 OFF, WRITE-READ VARIABLE LENGTH RECORDS												0106		
AA 07		TITLE	50 TO 4000 CHARACTERS												0107		
AA 08		TITLE	911 ON, WRITE-READ FIXED LENGTH RECORDS												0108		
AA 09		TITLE	2400 CHARACTERS												0109		
AA 10		TITLE	913 OFF, COUNTERS PRINT ON TYPEWRITER												0114		
AA 11		TITLE	913 ON, COUNTERS PRINT ON PRINTER						914 OFF	TR-18219 NXT PROG.						0115	
AA 11									914 ON	REMAIN IN TEST							
AA 12		TITLE	915 OFF, TAPE DENSITIES SET HIGH												0116		
AA 13		TITLE	915 ON, TAPE DENSITIES SET LOW												0117		
AA 14		TITLE	916 OFF, BYPASS HALT ON WRITE CHECKS												0118		
AA 15		TITLE	916 ON, HALT ON EACH WRITE CHECK												0119		
AA 16		TITLE	HOUSEKEEPING												0128		
AA 17	ENT80				01 0009 8 00f1 0024 80f04 (a)			000004	B 01	000001	00#1						
AA 18	EEM				02 0014 B 0002 0029 B0FF5 (b)			000009	1	000104	0164	0129					
AA 19	SEL	500			03 0019 B 0053 0034 B 0056			000164, 3 14		06-0	0130	023					
AA 20	WR	#7080 FOUR CHAN PROGRAM						000169 2		000500	0500	0131					
AA 21	WR	# 0#			0039 B			000174 R A	051025 /02N	0132		DA67					
AA 22	WR	#SET ALT SWITCHES. STORE JOB NO AT						000179 R A	050380 #38-	0133			DA39				
AA 23	RCV	RESETRDCTR						000184 R	050335 #33N	0134			DA33				
AA 24	TMT	TMPRD20						000189 U	022609 K609	0135			CV17				
AA 25	NOP	@9999						000194 9	022139 K139	0136			CU45				
AA 26	HLT	1111						000199 A	009999 9999	0137							
AA 27		TITLE	READY ROUTINE CHAN 20						000204 J	001111 1111	0138			0201			
AA 28	CHK2000	SEL	2000					000209	2000	0204							
AA 29		TRR	RDY2000					000214 0	1	000224 02S4	0205		AA31				
AA 30		TR	MFYCHK20					000219 1	000279 0279	0206 L/4	R A309						
AA 31	RDY2000	TAE	*615		IF 915 ON SET DENSITY LOW						000224 I	5 000239 OST9	0207	024			
AA 32		SDH						000229 3	000038 0038	0208							
AA 33		TR	*610					000234 1	000244 0244	0209							
AA 34		SDL						000239 3	050037 0037	0210							

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
AB 01		SETON			NOCHAN20SW										0211			
AB02		RCVS			NOCHAN2USW						000244	U		000320 0320			AB18	
AB03		TMTS	1		#1*						000249	9	1	050378 #3XQ			DA37	
AB 04		IOF									000254	3		000000 0000 0212				
AB 05		RWD									000259	3		000002 0002 0213				
AB 06		SET		4							000264	B		000004 0004 0214				
AB 07		LOD		CHK2000							000269	8		000209 0209 0215			AA28	
AB 08 UNLTAB20		UNL		TP2000							000274	7		020054 -054 0216			CR20	
AB 09 MFYCHK20		SET		1							000279	B		000001 0001 0217				
AB 10		LOD		#9*							000284	8		050379 #37R 0218	025	DA38		
AB 11		CMP		CHK2000							000289	4		000209 0209 0219			AA23	
AB 12		TRE		NOCHAN2USW							000294	L		000324 0324 0220			AB18	
AB 13		LOD		#1*							000299	8		050378 #37Q 0221	DA37			
AB 14		ADM		CHK2000							000304	6		000209 0209 0222			AA28	
AB 15		LDA		#00005#							000309	#		050084 #08M 0223			DA18	
AB 16		AAM		UNLTAB20							000314	@		000274 0274 0224			AB08	
AB 17		TR		CHK2000							000319	1		000209 0209 0225			AA23	
AB 18	NOCHAN20SW	SWN			CHK2100						000324	A		000379 0379 0230			AB34	
AB 19		SEL		500							000329	2		000500 0500 0231				
AB 20		WR		#NO CHAN 20 TAPES READY#							000334	RA		050933 #93L 0232			DA83	
AB 21		SETON		TSW20#						ELIMINATE TIP FOR WR CH 20					0233			
AB22		RCVS		TSW20							000339	U		001045 1045			AF11	
AB23		TMTS	1	#1*							000344	9	1	050378 #3XQ			026	DA37
AB 24		SETOF		SW20#						NOP EOF SW FOR CH 20					0234			
AB25		RCVS		SW20							000349	U		001180 1180			AG02	
AB26		TMTS	1	#61*							000354	9	1	050001 #04J			DA01	
AB 27		SETON		RDSW20#											0235			
AB28		RCVS		RDSW20							000359	U		006240 6240			BE03	
AB29		TMTS	1	#1*							000364	9	1	050378 #3XQ			DA37	
AB 30		SETOF		EOFSW220 #											0236			
AB31		RCVS		EOFSW220							000369	U		006310 6310			BE17	
AB32		TMTS	1	#61*							000374	9	1	050001 #04J			DA01	
AB 33		TITLE			READY ROUTINE CHAN 21										0250			
AB 34	CHK2100	SEL		2100							000379	2		002100 2100 0251				
AB 35		TRR		RDY2100							000384	0	1	000394 0324 0252			AB37	
AB 36		TR		MFYCHK21							000389	1		000449 -0449 0253			AC05	
AB 37	RDY2100	TAE		*615							000394	I	5	000409 0U#9 0254				
AB 38		SDH									000399	3		000038 0038 0255				
AB 39		TR		*610							000404	1		000414 0414 0256	027			
AB 40		SDL									000409	3		000037 0037 0257				
AB 41		SETON		NOCHAN21SW											0258			
AB42		RCVS		NOCHAN21SW							000414	U		000490 0490			AC15	
AB43		TMTS	1	#1*							000419	9	1	050378 #3XQ			DA37	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AC 01		IOF							000424	3		000000 0000	0259		
AC 02		RWD							000429	3		000002 0002	0260		
AC 03		SET			4				000434	B		000004 0004	0261		
AC 04		LOD			CHK2100				000439	8		000379 0379	0262	AB34	
AC 05	UNLTAB21	UNL			TP2100				000444	7		020634 -634	0263		
AC 06	MFYCHK21	SET			1				000449	B		000001 0001	0264	CS17	
AC 07		LOD			#9#				000454	8		050379 #37R	0265	BA38	
AC 08		CMP			CHK2100				000459	4		000379 0379	0266	AB34	
AC 09		TRE			NOCHAN21SW				000464	L		000494 0494	0267	028AC15	
AC 10		LOD			#1#				000469	8		050378 #37Q	0268	BA37	
AC 11		ADM			CHK2100				000474	6		000379 0379	0269	AB34	
AC 12		LDA			#00005#				000479	#		050084 #08M	0270	BA18	
AC 13		AAM			UNLTAB21				000484	@		000444 0444	0271	AC05	
AC 14		TR			CHK2100				000489	1		000379 0379	0272	AB34	
AC 15	NOCHAN21SW	SWN			CHK2200				000494	A		000549 0549	0275	AC31	
AC 16		SEL			500				000499	2		000500 0500	0276		
AC 17		WR			#NO CHAN 21 TAPES READY#				000504	R	A	050956 #950	0277	BA84	
AC 18		SETON			TSW21#			ELIMINATE TIP FOR WR CH 21						0278	
AC19		RCVS			TSW21				000509	U		001060 1060		AF14	
AC20		TMTS	1		#1#				000514	9	1	050378 #3XQ		BA37	
AC 21		SETOF			SW21#			NOP EOF SW FOR CH 21						0279	
AC22		RCVS			SW21				000519	U		001185 1185		AG03	
AC23		TMTS	1		#G1#				000524	9	1	050001 #0#J		029BA01	
AC 24		SETON			RDSW21#				000529	U		006255 6255		BE05	
AC25		RCVS			RDSW21				000534	9	1	050378 #3XQ		BA37	
AC26		TMTS	1		#1#										
AC 27		SETOF			E0FSW221#				000539	U		006315 6315		BE18	
AC28		RCVS			E0FSW221				000544	9	1	050001 #0#J		BA01	
AC29		TMTS	1		#G1#										
AC 30		TITLE			READY ROUTINE CHAN 22									0301	
AC 31	CHK2200	SEL			2200				000549	2		002200 2200	0304		
AC 32		TRR			RDY2200				000554	0	1	000564 03W4	0305	AC34	
AC 33		TR			MFYCHK22				000559	1		000619 0619	0306	AD03	
AC 34	RDY2200	TAE			*G15				000564	I	5	000579 CVX9	0307		
AC 35		SDH							000569	3		000038 0038	0308		
AC 36		TR			*G10				000574	1		000584 0584	0309		
AC 37		SDL							000579	3		000037 0037	0310		
AC 38		SETON			NOCHAN22SW									0311	030
AC39		RCVS			NOCHAN22SW				000584	U		000660 0660		AD12	
AC40		TMTS	1		#1#				000589	9	1	050378 #3XQ		BA37	
AC 41		IOF							000594	3		000000 0000	0312		
AC 42		RWD							000599	3		000002 0002	0313		
AC 43		SET			4				000604	B		000004 0004	0314		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
gscans/g0014418.png																	
AD 01		LOD			CHK2200						000609	8		000549 0549 0315		AC31	
AD 02	UNLTAB22	UNL			TP2200						000614	7		021109 J109 0316		CT10	
AD 03	MFYCHK22	SET			1						000619	B		000001 0001 0317			
AD 04		LOD			#9#						000624	8		050379 #37R 0318		DA38	
AD 05		CMP			CHK2200						000629	4		000549 0549 0319		AC31	
AD 06		TRE			NOCHAN22SW						000634	L		000664 0664 0320		AD12	
AD 07		LOD			#1#						000639	8		050378 #37Q 0321		DA37	
AD 08		ADM			CHK2200						000644	6		000549 0549 0322	031	AC31	
AD 09		LDA			#00005#						000649	#		050084 #08M 0323		DA18	
AD 10		AAM			UNLTAB22						000654	@		000614 0614 0324		AD02	
AD 11		TR			CHK2200						000659	1		000549 0549 0325		AC31	
AD 12	NOCHAN22SW	SWN			CHK2300						000664	A		000719 0719 0330		AD28	
AD 13		SEL			500						000669	2		000500 0500 0331			
AD 14		WR			#NO CHAN 22 TAPES READY#*						000674	R A		050979 #97R 0332		DA85	
AD 15		SETON			TSW22#					ELIMINATE TIP FOR WR CH 22					0333		
AD 16		RCVS			TSW22						000679	U		001075 1075		AF17	
AD 17		TMTS	1		#1#						000684	9	1	050378 #3XQ		DA37	
AD 18		SETOF			SW22#					NOP EOF FOR CH 22					0334		
AD 19		RCVS			SW22						000689	U		001190 1190		AG04	
AD 20		TMTS	1		#G1#						000694	9	1	050001 #0#J		DA01	
AD 21		SETON			RDSW22#						000699	U		006270 6270		0335	
AD 22		RCVS			RDSW22						000704	9	1	050378 #3XQ		BE09	
AD 23		TMTS	1		#1#											032	A37
AD 24		SETOF			EOF\$W222#						000709	U		006320 6320		0336	
AD 25		RCVS			EOF\$W222						000714	9	1	050001 #0#J		BE19	
AD 26		TMTS	1		#G1#											DA01	
AD 27		TITLE			READY ROUTINE CHAN 23										0350		
AD 28	CHK2300	SEL			2300						000719	2		002300 2300 0351			
AD 29		TRR			RDY2300						000724	0	1	000734 07T4 0352		AD31	
AD 30		TR			MFYCHK23						000729	1		000729 0729 0353		AD43	
AD 31	RDY2300	TAE			*&15						000734	I	5	000749 0XU9 0354			
AD 32		SDH									000739	3		000038 0038 0355			
AD 33		TR			*&10						000744	1		000754 0754 0356			
AD 34		SDL									000749	3		000037 0037 0357			
AD 35		SETON			NOCHAN23SW										0358		
AD 36		RCVS			NOCHAN23SW						000754	U		000830 0830		AE09	
AD 37		TMTS	1		#1#						000759	9	1	050378 #3XQ		DA37	
AD 38		IOF									000764	3		000000 0000 0359	033		
AD 39		RWD									000769	3		000002 0002 0360			
AD 40		SET			4						000774	B		000004 0004 0361			
AD 41		LOD			CHK2300						000779	8		000719 0719 0362		AD28	
AD 42	UNLTAB23	UNL			TP2300						000784	7		021584 J584 0363		CU03	
AD 43	MFYCHK23	SET			1						000789	B		000001 0001 0364			

INDEX	TAG	OP.	NU.	AT	OPERAND	PROGRAM 4-CHAN	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AE 01		LOD	#9#					000794	8		050379 #37R	0365		EA38
AE 02		CMP	CHK2300					000799	4		000719 0719	0366		AD28
AE 03		TRE	NOCHAN23SW					000804	L		000834 0834	0367		AE09
AE 04		LOD	#1#					000809	8		050378 #37Q	0368		EA37
AE 05		ADM	CHK2300					000814	6		000719 0719	0369		AD28
AE 06		LDA	#00005#					000819	#		050084 #08M	0370		EA18
AE 07		AAM	UNLTAB23					000824	@		000784 0784	0371	034AD42	
AE 08		TR	CHK2300					000829	I		000719 0719	0372		AD28
AE 09	NOCHAN23SW	SWN	ENDREADY					000834	A		000889 0889	0375		AE25
AE 10		SEL	500					000839	2		000500 0500	0376		
AE 11		WR	#NO CHAN 23 TAPES READY#					000844	R A		051002 /00K	0377		EA86
AE 12		SETON	TSW23#										0378	
AE 13		RCVS	TSW23					000849	U		001090 1090			AF20
AE 14		TMTS	1	#1#				000854	9	1	050378 #3XQ			EA37
AE 15		SETOF	SW23#										0379	
AE 16		RCVS	SW23					000859	U		001195 1195			AG05
AE 17		TMTS	1	#G1#				000864	9	1	050001 #0#J			EA01
AE 18		SETON	RDSW23#										0380	
AE 19		RCVS	RDSW23					000869	U		006285 6285			BE12
AE 20		TMTS	1	#1#				000874	9	1	050378 #3XQ			EA37
AE 21		SETOF	EOFWSW223#										0381	
AE 22		RCVS	EOFWSW223					000879	U		006325 6325			BE20
AE 23		TMTS	1	#G1#				000884	9	1	050001 #0#J		035EA01	
AE 24	ENDREADY	TITLE	' ROUTINE TO TYPE TAPE TABLE										0401	
AE 25	ENDREADY	SEL	500					000889	2		000500 0500	0402		
AE 26		WR	#READY TABLE#					000894	R		050555 #55N	0403		EA60
AE 27		RCVS	TSW20					000899	U		001045 1045	0404		AF11
AE 28		TZB	A	*G15				000904	.	5	000919 0Z/9	0405		
AE 29		WR	TAPETBL20					000909	R		020050 -050	0406		CR19
AE 30		WR	# 0#					000914	R		050380 #38-	0407		EA39
AE 31		RCVS	TSW21					000919	U		001060 1060	0408		AF14
AE 32		TZB	A	*G15				000924	.	5	000939 0ZT9	0409		
AE 33		WR	TAPETBL21					000929	R		020630 -630	0410		CS16
AE 34		WR	# 0#					000934	R		050380 #38-	0411		EA39
AE 35		RCVS	TSW22					000939	U		001075 1075	0412		AF17
AE 36		TZB	A	*G15				000944	.	5	000959 0ZV9	0413		036
AE 37		WR	TAPETBL22					000949	R		021105 J105	0414		CT09
AE 38		WR	# 0#					000954	R		050380 #38-	0415		EA39
AE 39		RCVS	TSW23					000959	U		001090 1090	0416		AF20
AE 40		TZB	A	*G15				000964	.	5	000979 0ZX9	0417		
AE 41		WR	TAPETBL23					000969	R		021580 J580	0418		CU02
AE 42		WR	# 0#					000974	R		050380 #38-	0419		EA39
AE 43		WR	# TO READ TAPES; MANUALLY TRANSFER TO					000979	R		051243 /24L	0420		EA94
AE 44		LIM						000984	,	7	0#60	0421		
AE 45		EIM						000989	,	6	0#-0	0422		
AE 46		HLT	2222					000994	J		002222 2222	0423		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AF 01	INRCVTMT	RCV			@30009						000999	U	030009	6009	0425		
AF 02		TMT			@26609						001004	9	026609	0609	0426	037	
AF 03		RCV			@35009						001009	U	035009	E009	0427		
AF 04		TMT			@26609						001014	9	026609	0609	0428		
AF 05		RCV			@40009						001019	U	040009	000R	0429		
AF 06		TMT			@26609						001024	9	026609	0609	0430		
AF 07		RCV			@45009						001029	U	045009	500R	0431		
AF 08		TMT			@26609						001034	9	026609	0609	0432		
AF 09		NOP			@9999						001039	A	009999	9999	0433		
AF 10		NOP			@9999						001044	A	009999	9999	0434		
AF 11	TSW20	SWN			TSW21						001049	A	001064	1064	0435	AF14	
AF 12	SWS	SWN			TSW21					AT TR AFTER EOF CH 20	001054	A	001064	1064	0435A	AF14	
AF 13		TIP			CH20WR						001059	14	001619	1FJ9	0436	AH43	
AF 14	TSW21	SWN			TSW22						001064	A	001079	1079	0437	038AF17	
AF 15	SWT	SWN			TSW22					AT TR AFTER EOF CH 21	001069	A	001079	1079	0437A	AF17	
AF 16		TIP			CH21WR						001074	14	002759	2GN9	0438	AN16	
AF 17	TSW22	SWN			TSW23						001079	A	001094	1094	0439	AF20	
AF 18	SWU	SWN			TSW23					AT TR AFTER EOF CH 22	001084	A	001094	1094	0439A	AF20	
AF 19		TIP			CH22WR						001089	14	003889	3HQ9	0440	AS36	
AF 20	TSW23	SWN			RCVTSL						001094	A	001114	1114	0441	AF24	
AF 21	SWV	SWN			RCVTSL					AT TR AFTER EOF CH 23	001099	A	001114	1114	0441A	AF24	
AF 22		TIP			CH23WR						001104	14	005019	5&J9	0442	AY08	
AF 23		NOP			@9999						001109	A	009999	9999	0443		
AF 24	RCVTSL	RCVS			COMPUTEXITG1						001114	U	006236	6236	0444	BE01	
AF 25		TSE			COMPUPRG						001119	I	006149	61U9	0445	B030	
AF 26	SWA	SWT			SWB						001124	I	001139	1139	0447	039AF29	
AF 27		TR			RCVTMT20						001129	I	002384	2384	0448	AL30	
AF 28	SWATIP	TIP			CH20WR						001134	14	001619	1FJ9	0453	AH43	
AF 29	SWB	SWT			SWC						001139	I	001154	1154	0454	AF32	
AF 30		TR			RCVTMT21						001144	I	003514	3514	0455	AR04	
AF 31	SWSTIP	TIP			CH21WR						001149	14	002759	2GN9	0460	AN16	
AF 32	SWC	SWT			SWD						001154	I	001169	1169	0461	AF35	
AF 33		TR			RCVTMT22						001159	I	004644	4644	0462	AW22	
AF 34	SWCTIP	TIP			CH22WR						001164	14	003889	3HQ9	0467	AS36	
AF 35	SWD	SWT			SW20						001169	I	001184	1184	0468	AG02	
AF 36		TR			RCVTMT23						001174	I	005774	5774	0469	BB45	

INDEX TAG OP NU AT OPERAND PROGRAM 4-CHAN COMMENTS LOC OP SU ADDRESS PGLIN SER REF
 AG 01 SWDTIP TIP CH23WR 001179 , 14 005019 5&J9 0474 AY08
 AG 02 SW20 SWT RCVTSL 001184 1 001114 1114 0476 040AF24
 AG 03 SW21 SWT RCVTSL 001189 1 001114 1114 0477 AF24
 AG 04 SW22 SWT RCVTSL 001194 1 001114 1114 0478 AF24
 AG 05 SW23 SWT RCVTSL 001199 1 001114 1114 0479 AF24
 AG 06 TITLE FINAL EOF ROUTINE FOR WRITE PROGRAMS 03 1219 1249 0501
 AG 07 ENDEOF TAD *G15 001204 I 001219 1319 0502
 AG 08 SEL 500 001209 2 000500 0500 0503
 AG 09 TR *G10 001214 1 001224 1224 0504
 AG 10 SEL 400 001219 2 000400 0400 0505
 AG 11 WR #END OF WR PASS 001224 R 050910 #91- 0506 □A82
 AG 12 WR JOBNO 001229 R 020105 -105 0507 CR23
 AG 13 WR # □# 001234 R 050380 #38- 0508 □A39
 AG 14 RCV TSW20-4 001239 U 001045 1045 0509 AF11
 AG 15 TZB A WRDATA21 001244 . 5 001324 1TS4 0510 041AG31
 AG 16 WR RECCCTR20 001249 R 020110 -110 0511 CR24
 AG 17 WR # □# 001254 R 050380 #38- 0512 □A39
 AG 18 WR #TEMP ERRORS CHAN 20□# 001259 R 050225 #22N 0513 □A28
 AG 19 WR TEMWR200061 001264 R 020176 -176 0514 CR30
 AG 20 WR TEMWR200561 001269 R 020226 -226 0515 CR31
 AG 21 WR TOTWRER20 001274 R 020280 -280 0516 CR33
 AG 22 WR # □# 001279 R 050380 #38- 0517 □A39
 AG 23 WR #SKIPS CHAN 20□# 001284 R 050622 #62K 0518 □A65
 AG 24 WR WRSS200061 001289 R 020296 -296 0519 CR36
 AG 25 WR WRSS200561 001294 R 020346 -346 0520 CR37
 AG 26 WR TOTSK20 001299 R 020400 -400 0521 CR39
 AG 27 WR # □# 001304 R 050380 #38- 0522 042□A39
 AG 28 WR SST20 001309 R 020450 -450 0523 CS01
 AG 29 WR 20A1 001314 R 020550 -550 0524 CS03
 AG 30 WR # □# 001319 R 050380 #38- 0525 □A39
 AG 31 WRDATA21 RCV 001324 U 001060 1060 0526 AF14
 AG 32 TZB A WRDATA22 001329 . 5 001409 1U#9 0527 AG48
 AG 33 WR RECCCTR21 001334 R 020685 -685 0528 CS20
 AG 34 WR # □# 001339 R 050380 #38- 0529 □A39
 AG 35 WR #TEMP ERRORS CHAN 21□# 001344 R 050245 #24N 0530 □A29
 AG 36 WR TEMWR210061 001349 R 020751 -751 0531 CS26
 AG 37 WR TEMWR210561 001354 R 020801 -801 0532 CS27
 AG 38 WR TOTWRER21 001359 R 020855 -855 0533 CS29
 AG 39 WR # □# 001364 R 050380 #38- 0534 043□A39
 AG 40 WR #SKIPS CHAN 21□# 001369 R 050636 #630 0535 □A66
 AG 41 WR WRSS210061 001374 R 020871 -871 0536 CS32
 AG 42 WR WRSS210561 001379 R 020921 -921 0537 CS33
 AG 43 WR TOTSK21 001384 R 020975 -975 0538 CS35
 AG 44 WR # □# 001389 R 050380 #38- 0539 □A39
 AG 45 WR SST20 001394 R 020450 -450 0540 CS01
 AG 46 WR 21A1 001399 R 021025 J025 0541 CS44
 AG 47 WR # □# 001404 R 050380 #38- 0542 □A39
 AG 48 WRDATA22 RCV TSW22-4 001409 U 001075 1075 0550 AF17

INDEX gscans/g0014416.png	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AH 01		TZB	A		WRDATA23						001414	*	5	001494	IUZ4	0551	AH17
AH 02		WR			RECCTR22						001419		021160	J160	0552	CT13	
AH 03		WR			# D#						001424	R	050380	#38-	0553	044D39	
AH 04		WR			#TEMP ERRORS CHAN 22#*						001429	R	050265	#26N	0554	D30	
AH 05		WR			TEMWR2200&1						001434	R	021226	J226	0555	C719	
AH 06		WR			TEMWR2205&1						001439	R	021276	J276	0576	CT20	
AH 07		WR			TOTWRER22						001444	R	021330	J330	0557	CT22	
AH 08		WR			# D#						001449	R	050380	#38-	0558	D39	
AH 09		WR			#SKIPS CHAN 22#*						001454	R	050650	#65-	0559	D67	
AH 10		WR			WRSS2200&1						001459	R	021346	J346	0560	CT25	
AH 11		WR			WRSS2205&1						001464	R	021396	J396	0561	CT26	
AH 12		WR			TOTSK22						001469	R	021450	J450	0562	CT23	
AH 13		WR			# D#						001474	R	050380	#38-	0563	D39	
AH 14		WR			SST20						001479	R	020450	-450	0564	CS01	
AH 15		WR			22A1						001484	R	021500	J500	0565	045CT37	
AH 16		WR			# D#						001489	R	050380	#38-	0566	D39	
AH 17	WRDATA23	RCV			TSW23-4						001494	U	001090	1090	0570	AF20	
AH 18		TZB	A		EOWRHLT						001499	*	5	001579	Ivx9	0571	AH34
AH 19		WR			RECCTR23						001504		021635	J635	0572	CU06	
AH 20		WR			# D#						001509	R	050380	#38-	0573	D39	
AH 21		WR			#TEMP ERRORS CHAN 23#*						001514	R	050285	#28N	0574	D31	
AH 22		WR			TEMWR2300&1						001519	R	021701	J701	0575	CU12	
AH 23		WR			TEMWR2305&1						001524	R	021751	J751	0576	CU13	
AH 24		WR			TOTWRER23						001529	R	021805	J805	0577	CU15	
AH 25		WR			# D#						001534	R	050380	#38-	0578	D39	
AH 26		WR			#SKIPS CHAN 23#*						001539	R	050664	#66M	0579	D68	
AH 27		WR			WRSS2300&1						001544	R	021821	J821	0580	046CU18	
AH 28		WR			WRSS2305&1						001549	R	021871	J871	0581	CU19	
AH 29		WR			TOTSK23						001554	R	021925	J925	0582	CU21	
AH 30		WR			# D#						001559	R	050380	#38-	0583	D39	
AH 31		WR			SST20						001564	R	020450	-450	0584	CS01	
AH 32		WR			23A1						001569	R	021975	J975	0585	CU30	
AH 33		WR			# D#						001574	R	050380	#38-	0586	D39	
AH 34	EOWRHLT	HLT			8888					END OF WRITE PHASE. START TO READ.	001579	J	008888	8888	0587		
AH 35		SET			78						001584	B	000078	0078	0587A		
AH 36		LOD			RESETCTRS&32						001589	8	022132	K132	0587B	CU42	
AH 37		UNL			2068						001594	7	020627	-627	0587C	CS12	
AH 38		UNL			2138						001599	7	021102	J102	0587D	CT05	
AH 39		UNL			2288						001604	7	021577	J577	0587E	047CT46	
AH 40		UNL			2388						001609	7	022052	K052	0587F	CU39	
AH 41		TR			RDSW20						001614	1	006244	6244	0588	BE03	
AH 42		TITLE			WRITE PROGRAM FOR CHANNEL 20										0601		
AH 43	CH20WR	SEL			2000						001619	2	002000	2000	0602		
AH 44		TRR			WR20						001624	0	1	001669	16W9	0603	AI02
AH 45	SELMODIF	SET	01		1						001629	B	1	000001	00#1	0604	
AH 46		LOD	01		#94					LOAD 9 CMP FOR LAST TAPE	001634	8	1	050379	#3XR	0605	D38
AH 47		CMP	01		CH20WR					CMP WITH UNIT PRS OF PRESENT SEL ADD	001639	4	1	001619	16/9	0605	AH43
AH 48		TRE			CMPRECCT20						001644	L	1	001699	1699	0607	4:09
AH 49		SET	01		1						001649	B	1	000001	00#1	0608	
AH 50		LOD	01		#1#						001654	8	1	050378	#3XQ	0609	D37
AH 51		ADM	01		CH20WR						001659	6	1	001619	16/9	0610	AH43

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AI 01		TR			CH20WR			TR TO WRITE NEXT TAPE	001664	1		001619 1619 0611		048AH43	
AI 02	WR20	WR			@30000				001669	R		030000 6000 0612			
AI 03		LIP			2000				001674	,	15	002000 2&60 0613			
AI 04		SEL	I	CH20WR				STM PROGRAM FOR CH 20 RECORDS					0615		
AI 05		EIA		CH20WR				STM PROGRAM FOR CH 20 RECORDS	001679	,	10	001619 10J9 0615		AH43	
AI 06		SEL		CH20WR				STM PROGRAM FOR CH 20 RECORDS	001684	2		001619 1619 0615		AH43	
AI 07		TSA		EOFITC20					001689	0	3	001789 17H9 0616		AI28	
AI 08		TR		SELMODIF					001694	1		001629 1629 0617		AH45	
AI 09	CMPRECCT20	SET	05	5					001699	B	,	5 000005 0**5 0618			
AI 10		LOD	05		FXNORCWR			LOAD DESIRED NO RECORDS.	001704	8		5 022594 KVZ4 0619		CV13	
AI 11		CMP	05		@30004			CMP FOR LAST REC TO BE WRITTEN	001709	4		5 030004 0620			
AI 12		TRE			EOFCH20				001714	L		001804 1804 0621		AI32	
AI 13	SWANOP	SETOF		SWA				ENABLE TIP TO STM PROG.					0623		
AI 14	SWANOP	RCVS		SWA					001719	U		001120 1120		AF26	
AI 15		TMTS	1	#&1*					001724	9	1	050001 #0#J		049DA01	
AI 16		NOP		@1234					001729	A		001234 1234 0624			
AI 17		SET	04	1					001734	B	4	000001 #0#1 0625			
AI 18		LOD	04	#0#					001739	8	4	050378 #T7# 0626		DA36	
AI 19		UNL	04	CH20WR				RESTORE UNIT POS OF TAPE SEL ADDRESS	001744	7		4 001619 1W19 0627		AH43	
AI 20		SET	05	5					001749	B		5 000005 0**5 0628			
AI 21		LOD	05	#00001#				INCREMENT REC NO FOR CH 20	001754	8		5 050074 **XM 0629		DA16	
AI 22		ADM	05	@30004					001759	6		5 030004 0630			
AI 23		LIP		2000					001764	,	15	002000 2&60 0631			
AI 24		SEL		500					001769	2		000500 0500 0632			
AI 25		WR		#LIP 2000 FAILED#					001774	R		050678 #67Q 0633		DA69	
AI 26		HLT		3333					001779	J		003333 3333 0634			
AI 27		TR		*-20					001784	1		001764 1764 0635		050	
AI 28	EOFITC20	TTC		TTCH20				TR TO TTC ROUTINE CH 20	001789	0	2	001959 19N9 0644		AJ23	
AI 29		TRS		EOFCH20				TR TO EOF CHAN 20	001794	0		001804 1804 0645		AI32	
AI 30		TR		SELMODIF				FALSE TSA	001799	1		001629 1629 0646		AH45	
AI 31		TITLE		EOF ROUTINE CHANNEL 20									0647		
AI 32	EOFCH20	NOP		@9999					001804	A		009999 9999 0648			
AI 33	CH20RWD	SEL		2000					001809	2		002000 2000 0649			
AI 34		TRR		TMCH20					001814	0	1	001824 18S4 0650		AI36	
AI 35		TR		CH20RWDMOD					001819	1		001854 1854 0651		AI43	
AI 36	TMCH20	WTM						TAPE MARK CH 20 TAPES	001824	3		000001 0001 0652			
AI 37		LIP		2000					001829	,	15	002000 2&60 0653			
AI 38		SEL	I	CH20RWD									0655		
AI 39		EIA		CH20RWD					001834	,	10	001809 1Q-9 0655		AI33	
AI 40		SEL		CH20RWD					001839	2		001809 1809 0655		AI33	
AI 41		IOF						IOF AND RWD. CH 20 TAPES	001844	3		000000 0000 0656		051	
AI 42		RWD							001849	3		000002 0002 0657			
AI 43	CH20RWDMOD	SET	01	1					001854	B	1	000001 00#1 0658			
AI 44		LOD	01	#9#					001859	8	1	050379 #3XR 0659		DA38	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AJ 01		CMP	01		CH20RWD				CMP FOR LAST TAPE CH 20	001864	4	1	001809 18#9	0660		AJ33
AJ 02		TRE			STOCH20CTR					001869	L		001894 1894	0661		AJ07
AJ 03		SET	01		1					001874	B	1	000001 00#1	0662		
AJ 04		LOD	01		#1#					001879	8	1	050378 #3XQ	0663		A37
AJ 05		ADM	01		CH20RWD				MODIFY SEL ADD BY 1	001884	6	1	001809 18#9	0664		AJ33
AJ 06		TR			CH20RWD					001889	1		001809 1809	0665		AJ33
AJ 07	STOCH20CTR	SET	05		5				SETUP CTR PRINT AREA	001894	B	5	000005 0#45	0666		
AJ 08		LOD	05		@30004					001899	8	5	030004 	0667		
AJ 09		TAA			UNLFXCH20					001904	I	1	001919 19/9	0668	052AJ12	
AJ 10		UNL	05		VARIABLE20				UNLOAD THIS LOC IF VAR LNG RECS.	001909	7	5	020154 -/V4	0669	CR25	
AJ 11		TR			*&10					001914	1		001924 1924	0670		
AJ 12	UNLFXCH20	UNL	05		FIXED20				UNLOAD FIXED LENGTH REC.	001919	7	5	020169 -/W9	0671		CR27
AJ 13		SETOF			SW20#										0671A	
AJ14		RCVS			SW20					001924	U		001180 1180		AG02	
AJ15		TMTS	1		#&1#					001929	9	1	050001 #0#J		DA01	
AJ 16		SETON			SWS#										0672	
AJ17		RCVS			SWS					001934	U		001050 1050		AF12	
AJ18		TMTS	1		#1#					001939	9	1	050378 #3XQ		A37	
AJ 19		LIP			2000					001944	,	15	002000 2&&0	0673		
AJ 20		HLT			@3130				LIP FAILED.	001949	J		003130 3130	0674		
AJ 21		TR			*-10					001954	1		001944 1944	0675		
AJ 22		TITLE			TTC CHANNEL 20										0701	
AJ 23	TTCCH20	TAF			WRCKHLT20				TR TO HALT ON CH IF 916 ON	001959	I	6	001969 1Z09	0702		AJ25
AJ 24		TR			TTCTYPCH20					001964	1		001974 1974	0703	053AJ26	
AJ 25	WRCKHLT20	HLT			2000					001969	J		002000 2000	0704		
AJ 26	TTCTYPCH20	SET	09		0					001974	B	9	000000 0-#0	0705		
AJ 27		SET	09		5					001979	B	9	000005 0-#5	0706		
AJ 28	SETSELRECO	SET	05		5				CASU 9 RESERVED FOR 5 CONSECUTIVE	001984	B	5	000005 0#45	0707		
AJ 29		LOD	05		@30004				SKIP COUNTER=CH20	001989	B	5	030004 ,	0708		
AJ 30		UNL	05		TTCERMSG20					001994	7	5	020424 -US4	0709		CR42
AJ 31		SET	04		4				UNLOAD REC NO.	001999	B	4	000004 0#04	0710		
AJ 32		LOD	04		CH20WR					002004	8	4	001619 1W19	0711		AH43
AJ 33		UNL	04		ERRSEL20				AND TAPE SEL	002009	7	4	020418 -U18	0712		CR41
AJ 34		RCVS			NOERRB320W&1					002014	U		002751 2751	0713		AN14
AJ 35		TSL			ENTRD320WR					002019	1	1	002534 25T4	0714		AM16
AJ 36		SEL			I+CH20WR										0715	054
AJ 37		EIA			CH20WR					002024	,	10	001619 10J9	0715		AH43
AJ 38		SEL			CH20WR					002029	2		001619 1619	0715		AH43
AJ 39		BSP							BACKSPACE ERROR TAPE	002034	3		000004 0004	0716		
AJ 40		LIP			2000					002039	,	15	002000 2&&0	0717		
AJ 41		SEL			I+CH20WR				AND WRITE REC AGAIN						0718	
AJ 42		EIA			CH20WR				AND WRITE REC AGAIN	002044	,	10	001619 10J9	0718		AH43
AJ 43		SEL			CH20WR				AND WRITE REC AGAIN	002049	2		001619 1619	0718		AH43

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AK 01		WR			@30000				IN SAME AREA	002054	R	030000	6000	0719		
AK 02		LIP			2000					002059	*	15	002000	2&60	0720	
AK 03		SEL			I.CH20WR									0721		
AK 04		EIA			CH20WR					002064	*	10	001619	10J9	0721	AH43
AK 05		SEL			CH20WR					002069	2		001619	1619	0721	AH43
AK 06		TTC			BSPSKP20					002074	0	2	002154	21N4	0722	AK22
AK 07		SET	05		5					002079	B	5	000005	0#5	0723	
AK 08		LOD	05		#00001#					002084	8	5	050074	**XM	0724	055#A16
AK 09		ADM	05		TOTWRER20				INCREMENT TOTAL TEMP WR CTR &1	002089	6	5	020289	-SY9	0725	CR33
AK 10		LDA	08		ADM20					002094	*	8	002134	2J34	0726	AK18
AK 11		SET	01	1					IF REWRITE IN SAME AREA OF TAPE OK	002099	B	1	000001	00#1	0727	
AK 12		LOD	01		CH20WR				ALSO INCREMENT SELECTED TAPE TEMP	002104	8	1	001619	16/9	0728	AH43
AK 13		UNL	01		CTRLOCMOD-1				WR CTR &1	002109	7	1	002148	21U8	0729	AK21
AK 14		LDA	01		CTRLOCMOD					002114	*	1	002149	21U9	0730	AK21
AK 15		AAM	01		ADM20					002119	@	1	002134	21T4	0731	AK18
AK 16		SET	02	3						002124	B	2	000003	00-3	0732	
AK 17		LOD	02		#001#					002129	8	2	050384	#3QM	0733	DA40
AK 18	ADM20	ADM	02		TEMWR2000-40					002134	6	2	020184	-1Q4	0734	CR30
AK 19		ULA	08		ADM20					002139	*	8	002134	2J34	0735	AK18
AK 20		TR			SELMODIF					002144	I		001629	1629	0736	056AH45
AK 21	CTRLOCMOD	HLT			0000					002149	J		000000	0000	0737	
AK 22	BSPSKP20	RCVS			NCERRB320WG1					002154	U		002751	2751	0738	AN14
AK 23		TSL			ENTRD320WR					002159	I	1	002534	25T4	0739	AM16
AK 24		TITLE							BACKSPACE SKIP ROUTINE					0740		
AK 25		SEL			I.CH20WR									0741		
AK 26		EIA			CH20WR				IF TTC AFTER 2ND WR IN SAME	002164	*	10	001619	10J9	0741	AH43
AK 27		SEL			CH20WR				IF TTC AFTER 2ND WR IN SAME	002169	2		001619	1619	0741	AH43
AK 28		BSP							IF TTC AFTER 2ND WR IN SAME	002174	3		000004	0004	0742	
AK 29		LIP			2000				AREA BKSP AND SKIP TAPE	002179	*	15	002000	2&60	0743	
AK 30		SEL			I.CH20WR									0744		
AK 31		EIA			CH20WR					002184	*	10	001619	10J9	0744	AH43
AK 32		SEL			CH20WR					002189	2		001619	1619	0744	AH43
AK 33		SKP								002194	3		000009	0009	0745	
AK 34		LIP			2000					002199	*	15	002000	2&60	0746	
AK 35		SET	05	5						002204	B	5	000005	0#5	0747	057
AK 36		LOD	05		#00001#				INCREMENT TOTAL SKIP COUNTER	002209	8	5	050074	**XM	0748	DA16
AK 37		ADM	05		TOTSK20				PLUS ONE	002214	6	5	020409	-U#9	0749	CR39
AK 38		LDA	08		ADM20SS					002219	*	8	002259	2K59	0750	AK46
AK 39		SET	01	1						002224	B	1	000001	00#1	0751	
AK 40		LOD	01		CH20WR					002229	8	1	001619	16/9	0772	AH43
AK 41		UNL	01		CTRLOCMOD-1					002234	7	1	002148	21U8	0753	AK21
AK 42		LDA	01		CTRLOCMOD					002239	*	1	002149	21U9	0754	AK21
AK 43		AAM	01		ADM20SS					002244	@	1	002259	22V9	0755	AK46
AK 44		SET	02	3						002249	B	2	000003	00-3	0756	
AK 45		LOD	02		#001#					002254	8	2	050384	#3QM	0757	DA40
AK 46	ADM20SS	ADM	02		WRSS2000-40					002259	5	2	020304	-3-4	0758	CR36
AK 47		ULA	08		ADM20SS					002264	*	8	002259	2K59	0759	058AK46

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SCR	REF
	gscans/g0014414.png															
AL 01		NTR	09		WRAGAIN20				IF NOT 5 SKIPS TR TO WR AGAIN 20	002269	X	9	002339 2LT9	0760		AL17
AL 02		SET	04		4					002274	B	4	000004 0#04	0761		
AL 03		LOD	04		CH20WR				IF 5 SKIPS TYPE MESSAGE AND TAPE	002279	B	4	001619 1W19	0762		AH43
AL 04		UNL	04		FIVESK20				ADDRESS AND HLT FOR OPERATOR	002284	7	4	020445 -U45	0763		CR45
AL 05		SEL			500				DECISION	002289	2		000500 0500	0764		
AL 06		WR			FIVESK20					002294	R		020429 -429	0765		CR45
AL 07		WR			#RESET DRIVE TO DISCONTINUE#					002299	R		051048 /04Q	0765A		DA88
AL 08		HLT			5550				TO DISCONTINUE DRIVE=RESET DRIVE	002304	J		005550 5550	0766		
AL 09		SEL		I	•CH20WR									0766A		
AL 10		EIA			CH20WR					002309	,	10	001619 10J9	0766A		AH43
AL 11		SEL			CH20WR					002314	2		001619 1619	0766A		AH43
AL 12		TRR			WRAGAIN20-10					002319	0	1	002329 23S9	0766B		AL17
AL 13		TR			SELMODIF					002324	1		001629 1629	0766C	059AH45	
AL 14		SET	09		0					002329	B	9	000000 0-#0	0767		
AL 15		SET	09		5					002334	B	9	000005 0-#5	0768		
AL 16	WRAGAIN20	SEL		I	•CH20WR				WRITE SAME REC AGAIN AFTER SKIP					0769		
AL 17	WRAGAIN20	EIA			CH20WR				WRITE SAME REC AGAIN AFTER SKIP	002339	,	10	001619 10J9	0769		AH43
AL 18		SEL			CH20WR				WRITE SAME REC AGAIN AFTER SKIP	002344	2		001619 1619	0769		AH43
AL 19		WR		I	•WR20									0770		
AL 20		EIA			WR20					002349	,	1C	001669 1009	0770		A102
AL 21		WR			WR20					002354	R		001669 1669	0770		A102
AL 22		LIP			2000					002359	,	15	002000 2&0	0771		
AL 23		SEL		I	•CH20WR									0772		
AL 24		EIA			CH20WR					002364	,	10	001619 10J9	0772		AH43
AL 25		SEL			CH20WR					002369	2		001619 1619	0772		AH43
AL 26		TTC			SETSELRECO					002374	0	2	001984 19Q4	0773		AJ28
AL 27		TR			SELMODIF					002379	1		001629 1629	0774		AH45
AL 28		TITLE			CHANNEL 20 RCV TMT ROUTINE									0812	060	
AL 29	RCVTMT20	SETON			SWAB									0813		
AL30	RCVTMT20	RCVS			SWA					002384	U		001120 1120			AF26
AL31		TMTS	1		*#1*					002389	9	1	050378 #3XQ			DA37
AL 32		TAA			*&20				IF 911 ON DO NOT CHANGE TMT ADDRESS	002394	I	1	002414 24/4	0814		
AL 33	LDATMTB	LDA	04		TMTB				UPDATE TMT ADDRESS	002399	*	4	020009 -#09	0815		CR08
AL 34		ULA	04		TRANSADDRS					002404	*	4	002439 2U39	0816		AL41
AL 35		TR			*&15					002409	1		002424 2424	0817		
AL 36		LDA	04		TMTA					002414	*	4	020004 -#04	0818		CR07
AL 37		ULA	04		TRANSADDRS					002419	*	4	002439 2U39	0819		AL41
AL 38		SET	5		5					002424	B	5	000005 0#/#5	0819A		
AL 39		LOD	5		@30004					002429	8	5	030004 &#/#4	0819B		
AL 40	RECEIVEADD	RCV			@30009					002434	U		030009 &009	0820		
AL 41	TRANSADDRS	TCT			@1239					002439	,	8	001239 1K39	0821		
AL 42		TMC			TMTCHECK				901 ON TRANSMITT	002444	O	11	002514 2NA4	0822		061AM11
AL 43		UNL	5		@30004					002449	7	5	030004 &#/#4	0822A		
AL 44		TAA			SWATIP				IF 911 ON DO NOT UPDATE TMT ADDRESS	002454	I	1	001134 11T4	0823		AF28
AL 45		SET	04		4					002459	B	4	000004 0#04	0824		

sans 0014 4.pr

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AM 01		LOD	04		TMTJ				002464	8	4	020049 -#49	0825		CR16
AM 02		CMP	4		TRANSADDRS			CMP AGAINST LAST REC TO BE TMT	002469	4	4	002439 2U39	0826		AL41
AM 03		TRE			RESTORTMTA			IF EQ RESET TMT ADDRESS TO TMTA	002474	L		002494 2494	0827		AM07
AM 04		LDA	05		#00005#			IF NOT UPDATE TMT ADDRESS	002479	#	5	050084 #YM	0828		DA18
AM 05		AAM	05		LDATMTB				002484	@	5	002399 2TZ9	0829		AL33
AM 06		TR			SWATIP				002489	I		001134 1134	0830		AF28
AM 07	RESTORTMTA	NOP			TMTA				002494	A		020004 -004	0831		CR07
AM 08		LDA	05	*-5				RESTORE TMT ADDRESS TO TMTA	002499	#	5	002494 2U74	0832		
AM 09		ULA	05		LDATMTB				002504	*	5	002399 2TZ9	0833	062	AL33
AM 10		TR			SWATIP				002509	I		001134 1134	0834		AF28
AM 11	TMTCHECK	SEL			500			TYPE OUT 901 ON TMT	002514	2		000500 0500	0835		
AM 12		WR			#901 TCT 20#*				002519	R		050499 #49R	0836		DA55
AM 13		NOP			@1234				002524	A		001234 1234	0837		
AM 14		TR			RECEIVEADD				002529	I		002434 2434	0838		AL40
AM 15		TITLE			READ 03 ROUTINE-CHAN 20								0839		
AM 16	ENTRD320WR	NOP			@9999				002534	A		009999 9999	0840		
AM 17		SEL			I,CH20WR								0841		
AM 18		EIA			CH20WR				002539	,	10	001619 10J9	0841		
AM 19		SEL			CH20WR				002544	2		001619 1619	0841		AH43
AM 20		SST			SST20RDIN		RD 03		002549	Y	3	022595 K515	0842		CV14
AM 21		TSA			*65				002554	O	3	002559 25E9	0843		
AM 22		SET	02		2				002559	B	2	000002 00-2	0844		
AM 23		LOD	02		SST20RDIN-3				002564	8	2	022596 K5R6	0845	063	CV14
AM 24		UNL	02		RD320				002569	7	2	020427 -4K7	0846		CR43
AM 25		TAD			*&15				002574	I		002589 2v89	0847		
AM 26		SEL			500				002579	2		000500 0500	0848		
AM 27		TR			*&10				002584	I		002594 2594	0849		
AM 28		SEL			400				002589	2		000400 0400	0850		
AM 29		WR			ERRSEL20			WR TAPE ADD, REC NO. RD03 CHAR.	002594	R		020415 -415	0851		CR41
AM 30		NOP			@9999				002599	A		009999 9999	0852		
AM 31	ENTRD320RD	RCV			SST20RDIN-4			RCV AT CHAR 1	002604	U		022595 K595	0853		
AM 32		TZB	8		*&10			CHECK CH 1 FOR ERROR	002609	,	4	002619 2W19	0854		CV14
AM 33		TR			NOERRA320W			TR IF 8 BIT ON-NO ERROR	002614	I		002679 2679	0855		AM46
AM 34		SET	03		3				002619	B	3	000003 00&3	0856		
AM 35		LOD	03		#001#				002624	8	3	050384 #3HM	0857	064	DA40
AM 36		TZB	01		*&10			CHECK 1 BIT	002629	,	1	002639 26T9	0858		
AM 37		ADM	03		20A1				002634	6	3	020555 -5E5	0859		CS03
AM 38		TZB	02		*&10			CHECK 2 BIT	002639	,	2	002649 26M9	0860		
AM 39		ADM	03		20A2				002644	6	3	020563 -5F3	0861		CS04
AM 40		TZB	4		*&10			CHECK 4 BIT	002649	,	3	002659 26E9	0862		
AM 41		ADM	03		20A4				002654	6	3	020571 -5G1	0863		CS05
AM 42		TZB	A		*&10			CHECK A BIT	002659	,	5	002669 2W9	0864		
AM 43		ADM	03		20AA				002664	6	3	020579 -EG9	0865		CS06
AM 44		TZB	8		*&10			CHECK B BIT	002669	,	6	002679 2WP9	0866		
AM 45		ADM	03		20AB				002674	6	3	020587 -5H7	0867		CS07
AM 46	NOERRA320W	SET	03		3				002679	B	3	000003 00&3	0868		
AM 47		LOD	03		#001#				002684	8	3	050384 #3HM	0869	065	DA40

03 2589 25H9

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AN 01		RCV			SST20RDIN-3	RCV AT CHAR 2				002689	U		022596 K596 0870			CV14
AN 02		TZB	8	*	&10	CHECK CH 2 FOR ERROR				002694	*	4	002704 2X04 0871			
AN 03		TR			NOERRB320W	TR IF 8 BIT ON-NO ERROR				002699	I		002754 2754 0872			AN14
AN 04		TZB	01	*	&10	CHECK 1 BIT				002704	*	1	002714 27/4 0873			
AN 05		ADM	03		20B1	CHECK 2 BIT				002709	6	3	020595 -515 0874			CS08
AN 06		TZB	02	*	&10	CHECK 4 BIT				002714	*	2	002724 27K4 0875			
AN 07		ADM	03		20B2	CHECK A BIT				002719	6	3	020603 -6&3 0876			CS09
AN 08		TZB	4	*	&10					002724	*	3	002734 27C4 0877			
AN 09		ADM	03		20B4					002729	6	3	020611 -6A1 0878			CS10
AN 10		TZB	A	*	&10					002734	*	5	002744 2XU4 0879			
AN 11		ADM	03		20BA					002739	6	3	020619 -6A9 0880			CS11
AN 12		TZB	B	*	&10					002744	*	6	002754 2XN4 0881	066		
AN 13		ADM	03		20BB					002749	6	3	020627 -6B7 0882			CS12
AN 14	NOERRB320W	TR			@9999					002754	I		009999 9999 0883			
AN 15		TITLE			WRITE PROGRAM FOR CHANNEL 21										0901	
AN 16	CH21WR	SEL			2100					002759	2		002100 2100 0902			
AN 17		TRR			WR21					002764	0	1	002809 28#9 0903			
AN 18	SELMODIF1	SET	01		1					002769	B	1	000001 00#1 0904			AN26
AN 19		LOD	01	#9#		LOAD 9 TO CMP AGAINST LAST TAPE SEL				002774	8	1	050379 #3XR 0905			
AN 20		CMP	01		CH21WR					002779	4	1	002759 27V9 0906			#A38
AN 21		TRE			CMPRECCT21					002784	L		002839 2839 0907			AN16
AN 22		SET	01		1					002789	B	1	000001 00#1 0908			AN33
AN 23		LOD	01	#1#						002794	8	1	050378 #3XQ 0909			#A37
AN 24		ADM	01		CH21WR					002799	6	1	002759 27V9 0910			AN16
AN 25		TR			CH21WR	TR TO WRITE NEXT TAPE				002804	I		002759 2759 0911			067AN16
AN 26	WR21	WR			@35000					002809	R		035000 E000 0912			
AN 27		LIP			2100					002814	*	15	002100 2A60 0913			
AN 28		SEL		I+CH21WR		STM PROGRAM FOR CHAN 21 RECORDS									0915	
AN 29		EIA			CH21WR	STM PROGRAM FOR CHAN 21 RECORDS				002819	*	10	002759 2PN9 0915			AN16
AN 30		SEL			CH21WR	STM PROGRAM FOR CHAN 21 RECORDS				002824	2		002759 2759 0915			
AN 31		TSA			EOFHTC21					002829	0	3	002924 2984 0916			A004
AN 32		TR			SELMODIF1					002834	I		002769 2769 0917			AN18
AN 33	CMPRECCT21	SET	05	5						002839	B	5	000005 0#45 0918			
AN 34		LOD	05		FXNORCWR					002844	8	5	022594 KVZ4 0919			CV13
AN 35		CMP	05		@35004					002849	4	5	035004 E#4 0920			
AN 36		TRE			EOFCH21					002854	L		002939 2939 0921			A009
AN 37	SWBNOP	SETOF			SWB#										0922	
AN38	SWBNOP	RCVS			SWB					002859	U		001135 1135			
AN39		TMTS	1	*	&1*					002864	9	1	050001 #0#J			AF29
AN 40		SET	4		1					002869	B	4	000001 #0#1			068#A01
AN 41		LOD	04	*	0*					002874	8	4	050377 #T7P 0924			#A36
AN 42		UNL	04		CH21WR					002879	7	4	002759 2X59 0925			AN16
AN 43		SET	05		5					002884	B	5	000005 0#45 0926			
AN 44		LOD	05	#00001*		INCREMENT REC NO FOR CH21				002889	8	5	050074 ##XM 0927			#A16
AN 45		ADM	05		@35004					002894	6	5	035004 E#4 0928			
AN 46		LIP			2100					002899	*	15	002100 2A60 0929			
AN 47		SEL			500					002904	2		000500 0500 0930			

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AO 01		WR			#LIP 2100 FAILED#*					002909	R		050694 #69M 0931		DA70	
AO 02		HLT			3131.					002914	J		003131 3131 0932			
AO 03		TR			*-20					002919	I		002899 2899 0933			
AO 04	E0FTTC21	TTC			TTCCCH21	TR TO TTC ROUTINE CH21				002924	O	2	003089 3009 0942		069A042	
AO 05		TRS			EOFCH21	TR TO EOF CHAN 21				002929	O		002939 2939 0943		A009	
AO 06		TR			SELMODIF1	FALSE TSA				002934	I		002769 2769 0944		AN18	
AO 07		TITLE			EOF ROUTINE CHANNEL 21									0945		
AO 08	EOFCH21	SETOF			SW21#									0946		
A009	EOFCH21	RCVS			SW21					002939	U		001185 1185			
A010		TMTS	1		#G1#					002944	I	1	050001 #0#J		DA01	
AO 11	CH21RWD	SEL			2100					002949	I		002100 2100 0947			
AO 12		TRR			TMCH21					002954	O	1	002964 29W4 0948		A014	
AO 13		TR			CH21RWDMOD					002959	I		002994 2994 0949		A021	
AO 14	TMCH21	WTM				TAPE MARK CH 20 TAPES				002964	I	3	000001 0001 0950			
AO 15		LIP			2100					002969	I	15	002100 2A&0 0951			
AO 16		SEL			I+CH21RWD								0952			
AO 17		EIA			CH21RWD					002974	I	10	002949 2RM9 0952			
AO 18		SEL			CH21RWD					002979	I	2	002949 2949 0952		A011	
AO 19		IOF					IOF AND RWD CH21 TAPES			002984	I	3	000000 0000 0953			
AO 20		RWD								002989	I	3	000002 0C02 0954		070	
AO 21	CH21RWDMOD	SET	01		1					002994	I	1	000001 00#1 0955			
AO 22		LOD	01		#9#					002999	I	1	050379 #3XR 0956		DA38	
AO 23		CMP	01		CH21RWD		CMP FOR LAST TAPE DRIVE			003004	I	1	002949 29U9 0957		A011	
AO 24		TRE			STOCH21CTR					003009	L		003034 3034 0958		A029	
AO 25		SET	01		1					003014	I	1	000001 00#1 0959			
AO 26		LOD	01		#1#					003019	I	8	050378 #3XQ 0960		DA37	
AO 27		ADM	01		CH21RWD		MODIFY SEL ADD BY 1			003024	I	1	002949 29U9 0961		A011	
AO 28		TR			CH21RWD					003029	I		002949 2949 0962		A011	
AO 29	STOCH21CTR	SET	05		5		SETUP CTR PRINT AREA			003034	I	5	000005 0#*5 0963			
AO 30		LOD	05		@35004					003039	I	5	035004 E#*4 0964			
AO 31		TAA			UNLFXCH21					003044	I	1	003059 30V9 0965		071A034	
AO 32		UNL	05		VARIABLE21		UNLOAD VARIABLE LENGTH REC 21			003049	I	7	5 020729 -XS9 0966		CS21	
AO 33		TR			*&10					003054	I		003064 3064 0967			
AO 34	UNLFXCH21	UNL	05		FIXED21		UNLOAD FIXED LENGTH REC.			003059	I	7	5 020744 -XU4 0968		CS23	
AO 35		SETON			SWT#									0969		
A036		RCVS			SWT					003064	U		001065 1055		AF15	
A037		TMTS	1		#1#					003069	I	1	050378 #3XQ		DA37	
AO 38		LIP			2100					003074	I	15	002100 2A&0 0970			
AO 39		HLT			3131		LIP FAILED			003079	J		003131 3131 0971			
AO 40		TR			*-10					003084	I		003074 3074 0972			
AO 41		TITLE			TTCCCH21		TTCCCH21							0974		
AO 42	TTCCCH21	TAF			WRCKHLT21					003089	I	6	003099 3*R9 0975		AP02	

gscans INDEX4412 TAG		OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AP 01		TR			TTCTYPCH21					003094	I		003104 3104 0976			AP03
AP 02	WRCKHLT21	HLT			2100					003099	J		002100 2100 0977			
AP 03	TTCTYPCH21	SET	10	0		CASU 10 RESERVED FOR 5 CONSECUTIVE				003104	B	10	000000 0--0 1002	072		
AP 04		SET	10	5		SKIP COUNTER - CH 21				003109	B	10	000005 0--5 1003			
AP 05	SETSELREC1	SET	05	5						003114	B	5	000005 0##5 1004			
AP 06		LOD	05	@35004						003119	B	5	035004 E##4 1005			
AP 07		UNL	05	TTCEERMMSG21		UNLOAD REC NO.				003124	T	5	020999 -ZZ9 1006	CS38		
AP 08		SET	04	4						003129	B	4	000004 0#04 1007			
AP 09		LOD	04	CH21WR		AND TAPE SELECTED				003134	B	4	002759 2X59 1008	AN16		
AP 10		UNL	04	ERRSEL21						003139	T	4	020993 -Z93 1009	CS37		
AP 11		RCVS		NOERRB321W&1						003144	U		003881 3881 1010	AS34		
AP 12		TSL		ENTRD321WR						003149	I	1	003664 36W4 1011	AR35		
AP 13		SEL		I.CH21WR										1012		
AP 14		EIA		CH21WR						003154	,	10	002759 2PN9 1012	AN16		
AP 15		SEL		CH21WR						003159	2		002759 2759 1012	AN16		
AP 16		BSP				BACKSPACE ERROR TAPE				003164	3		000004 0004 1013	073		
AP 17		LIP		2100						003169	,	15	002100 2A&0 1014			
AP 18		SEL		I.CH21WR										1014A		
AP 19		EIA		CH21WR						003174	,	10	002759 2PN9 1014A	AN16		
AP 20		SEL		CH21WR						003179	2		002759 2759 1014A	AN16		
AP 21		WR		@35000						003184	R		035000 E000 1014B			
AP 22		LIP		2100						003189	,	15	002100 2A&0 1014C			
AP 23		SEL		I.CH21WR										1015		
AP 24		EIA		CH21WR						003194	,	10	002759 2PN9 1015	AN16		
AP 25		SEL		CH21WR						003199	2		002759 2759 1015	AN16		
AP 26		TTC		BSPSKP21-10						003204	O	2	003284 32Q4 1016	AP45		
AP 27		SET	05	5						003209	B	5	000005 0##5 1017			
AP 28		LOD	05	#00001*						003214	B	5	050074 ##XM 1018	NA16		
AP 29		ADM	5	TOTWRER21						003219	6		020864 -YW4 1019	CS29		
AP 30		LDA	08	ADM21						003224	*	8	003264 3K64 1020	074AP38		
AP 31		SET	01	1						003229	B	1	000001 0#1 1021			
AP 32		LOD	01	CH21WR						003234	B	1	002759 27V9 1022	AN16		
AP 33		UNL	01	CTRLOCMOD1-1						003239	T	1	003278 32X8 1023	AP41		
AP 34		LDA	01	CTRLOCMOD1						003244	*	1	003279 32X9 1024	AP41		
AP 35		AAM	01	ADM21						003249	@	1	003264 32W4 1025	AP38		
AP 36		SET	03	3						003254	B	3	000003 00&3 1026			
AP 37		LOD	03	#001#						003259	B	3	050384 #3HM 1027	NA40		
AP 38	ADM21	ADM	03	TEMWR2100-40						003264	6		020759 -7E9 1028	CS26		
AP 39		ULA	08	ADM21						003269	*	8	003264 3K64 1029	AP38		
AP 40		TR		SELMODIF1						003274	I		002769 2769 1030	AN18		
AP 41	CTPLOCMOD1	HLT		0000						003279	J		000000 0000 1030A			
AP 42		RCVS		NOERRB321W&1						003284	U		003881 3881 1031	075AS34		
AP 43		TSL		ENTRD321WR						003289	I	1	003664 36W4 1032	AR35		
AP 44	BSPSKP21	SEL		I.CH21WR		2F TTC AFTER 2ND WR IN SAME				003294	,	10	002759 2PN9 1033	1033		
AP 45	BSPSKP21	EIA		CH21WR		2F TTC AFTER 2ND WR IN SAME								AN16		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF		
AQ 01		SEL		CH21WR	2F TTC AFTER 2ND WR IN SAME				003299	2	002759 2759	1033	AN16
AQ 02		BSP							003304	3	000004 0004	1034	
AQ 03		LIP		2100	AREA BKSP AND SKIP TAPE				003309	*	15 002100 2A60	1035	
AQ 04		SEL	I	• CH21WR								1036	
AQ 05		EIA		CH21WR					003314	,	10 002759 2PN9	1036	AN16
AQ 06		SEL		CH21WR					003319	2	002759 2759	1036	AN16
AQ 07		SKP							003324	3	000009 0009	1037	
AQ 08		LIP		2100					003329	,	15 002100 2A60	1038	
AQ 09		SET	05	5					003334	B	5 000005 0#45	1039	
AQ 10		LOD	05	#00001*	INCREMENT TOTAL SKIP COUNTER				003339	8	5 050074 ##XM	1040	DA16
AQ 11		ADM	05	TOTSK21	PLUS ONE				003344	6	5 020984 -ZY4	1041	076CS35
AQ 12		LDA	07	ADM21SS					003349	*	7 003389 3TH9	1042	AQ20
AQ 13		SET	01	1					003354	B	1 000001 00#1	1043	
AQ 14		LOD	01	CH21WR					003359	8	1 002759 27V9	1044	AN16
AQ 15		UNL	01	CTRLOCMOD1-1					003364	7	1 003278 32X8	1045	AP41
AQ 16		LDA	01	CTRLOCMOD1					003369	*	1 003279 32X9	1046	AP41
AQ 17		AAM	01	ADM21SS					003374	@	1 003389 33Y9	1047	AQ20
AQ 18		SET	03	3					003379	B	3 000003 00#3	1048	
AQ 19		LOD	03	#001*					003384	8	3 050384 #3HM	1049	DA40
AQ 20	ADM21SS	ADM	03	WRSS2100-40					003389	6	3 020879 -BG9	1050	CS32
AQ 21		ULA	07	ADM21SS					003394	*	7 003389 3TH9	1051	AQ20
AQ 22		NTR	10	WRAGAIN21	IF NOT FIVE SKIPS TR TO WR AGAIN 21				003399	X	10 003469 3M09	1052	AQ38
AQ 23		SET	04	4					003404	B	4 000004 0#04	1053	077
AQ 24		LOD	04	CH21WR	IF 5 SKIPS TYPE MESSAGE AND TAPE				003409	8	4 002759 2X59	1054	AN16
AQ 25		UNL	4	FIVESK21	ADDRESS AND HLT FOR DECISION				003414	7	4 021020 J#20	1055	CS41
AQ 26		SEL		500					003419	2	000500 0500	1056	
AQ 27		WR		FIVESK21					003424	R	021004 J004	1057	CS41
AQ 28		WR		#RESET DRIVE TO DISCONTINUE#					003429	R	051048 /04Q	1057A	DA88
AQ 29		HLT		5551	TO DISCONTINUE DR-RESET DRIVE				003434	J	005551 5551	1058	
AQ 30		SEL	I	• CH21WR								1058A	
AQ 31		EIA		CH21WR					003439	,	10 002759 2PN9	1058A	AN16
AQ 32		SEL		CH21WR					003444	2	002759 2759	1058A	AN16
AQ 33		TRR		WRAGAIN21-10					003449	0	1 003459 34V9	1058B	AQ38
AQ 34		TR		SELMODIFI					003454	1	002769 2769	1058C	AN18
AQ 35		SET	10	0	MANUSLLY AND TRANSFER TO				003459	B	10 000000 0--0	1059	
AQ 36		SET	10	5					003464	B	10 000005 0--5	1060	078
AQ 37	WRAGAIN21	SEL	I	• CH21WR	WRITE SAME RECORD AGAIN AFTER SKIP							1061	
AQ 38	WRAGAIN21	EIA		CH21WR	WRITE SAME RECORD AGAIN AFTER SKIP				003469	,	10 002759 2PN9	1061	AN16
AQ 39		SEL		CH21WR	WRITE SAME RECORD AGAIN AFTER SKIP				003474	2	002759 2759	1061	AN16
AQ 40		WR	I	• WR21								1062	
AQ 41		EIA		WR21					003479	,	10 002809 2Q-9	1062	AN26
AQ 42		WR		WR21					003484	R	002809 2809	1062	AN26
AQ 43		LIP		2100					003489	,	15 002100 2A60	1063	
AQ 44		SEL	I	• CH21WR								1064	
AQ 45		EIA		CH21WR					003494	,	10 002759 2PN9	1064	AN16
AQ 46		SEL		CH21WR					003499	2	002759 2759	1064	AN16
AQ 47		TTC		SETSELREC1					003504	0	2 003114 31J4	1065	AP05

gscans	SEQ	101441	ASG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AR 01				TR			SELMODIF1					003509	I		002769	2769	1066	AN18
AR 02				TITLE			CHANNEL 21 RCV TMT ROUTINE									1150		
AR 03	RCVTMT21			SETON			SWB#									1151		
AR 04	RCVTMT21			RCVS			SWB					003514	U		001135	1135		AF29
AR 05				TMTS	1		*#1*					003519	9	1	050378	#3XQ		DA37
AR 06				TAA			*&20		IF 911 ON TMT 2400 CHAR REC			003524	I	1	003544	35U4	1152	079
AR 07	LDATMTB1			LDA	04		TMTB		IF 911 OFF GET NEXT REC			003529	#	4	020009	-#09	1153	CR08
AR 08				ULA	04		TRANSADD21					003534	*	4	003569	3V69	1154	AR15
AR 09				TR			*&15					003539	1		003554	3554	1155	
AR 10				LDA	04		TMTA					003544	#	4	020004	-#04	1156	CR07
AR 11				ULA	04		TRANSADD21					003549	*	4	003569	3V69	1157	AR15
AR 12				SET	5		5					003554	B	5	000005	0##5	1157A	
AR 13				LOD	5		@35004					003559	8	5	035004	E##4	1157B	
AR 14	RECEIVEA21			RCV			@35009					003564	U		035009	E009	1158	
AR 15	TRANSADD21			TCT			@1239					003569	,	8	001239	1K39	1159	
AR 16				TMC			TMTCHECK21					003574	O	11	003644	30D4	1160	AR30
AR 17				UNL	5		@35004					003579	7	5	035004	E##4	1160A	
AR 18				TAA			SWBTIP					003584	I	1	001149	11U9	1161	080AF31
AR 19				SET	04		4					003589	B	4	000004	0#04	1162	
AR 20				LOD	04		TMTJ					003594	8	4	020049	-#49	1163	CR16
AR 21				CMP	4		TRANSADD21					003599	4	4	003569	3V69	1164	AR15
AR 22				TRE			RESTMT21A					003604	L		003624	3624	1165	AR26
AR 23				LDA	05		#00005*					003609	#	5	050084	##YM	1166	DA18
AR 24				AAM	05		LDATMTB1					003614	@	5	003529	3VS9	1167	AR07
AR 25				TR			SWBTIP					003619	1		001149	1149	1168	AF31
AR 26	RESTMT21A			NOP			TMTA					003624	A		020004	-004	1169	CR07
AR 27				LDA	05		*-5					003629	#	5	003624	3WS4	1170	
AR 28				ULA	05		LDATMTB1					003634	*	5	003529	3VS9	1171	AR07
AR 29				TR			SWBTIP					003639	1		001149	1149	1172	AF31
AR 30	TMTCHECK21			SEL			500					003644	2		000500	0500	1173	081
AR 31				WR			#901 TCT 21#*					003649	R		050510	#51-	1174	DA56
AR 32				NOP			@1234					003654	A		001234	1234	1175	
AR 33				TR			RECEIVEA21					003659	1		003564	3564	1176	AR14
AR 34		TITLE					READ 03 ROUTINE-CHAN 21									1201		
AR 35	ENTRD321WR			NOP			@9999					003664	A		009999	9999	1202	
AR 36				SEL			I,CH21WR									1203		
AR 37				EIA			CH21WR					003669	,	10	002759	2PN9	1203	AN16
AR 38				SEL			CH21WR					003674	2		002759	2759	1203	AN16
AR 39				SST			SST21RDIN	RD 03				003679	Y	3	023175	L1G5	1204	CW07
AR 40				TSA			*&5					003684	O	3	003689	36H9	1205	
AR 41				SET	02		2					003689	B	2	000002	00-2	1206	
AR 42				LOD	02		SST21RDIN-3					003694	8	2	023176	L1P6	1207	CW07
AR 43				UNL	02		RD321					003699	7	2	021002	J0-2	1208	CS39
AR 44				TAD			*&15					003704	I	4	003719	3X19	1209	082
AR 45				SEL			500					003709	2		000500	0500	1210	
AR 46				TR			*&10					003714	1		003724	3724	1211	

03 3719 37A9

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
AS 01		SEL			400					003719	2		000400 0400	1212			
AS 02		WR			ERRSEL21				WR TAPE ADD. REC NO. RD 03 CHAR.	003724	R		020990 -990	1213			CS37
AS 03		NOP			@9999					003729	A		009999 9999	1214			
AS 04	ENTRD321RD	RCV			SST21RDIN-4				RCV AT CHAR 1	003734	U		023175 L175	1215			CW07
AS 05		TZB	8		*&10				CHECK CH 1 FOR ERROR	003739	*	4	003749 3X49	1216			
AS 06		TR			NOERRA321W				TR IF 8 BIT ON-NO ERROR	003744	I		003809 3809	1217			AS19
AS 07		SET	03		3					003749	B	3	000003 0063	1218			
AS 08		LOD	03		#001*					003754	8	3	050384 #3HM	1219			DA40
AS 09		TZB	01		*&10				CHECK 1 BIT	003759	*	1	003769 37W9	1220			
AS 10		ADM	03		21A1					003764	6	3	021030 J0C0	1221			083CS44
AS 11		TZB	02		*&10				CHECK 2 BIT	003769	*	2	003779 37P9	1222			
AS 12		ADM	03		21A2					003774	6	3	021038 J0C8	1223			CS45
AS 13		TZB	4		*&10				CHECK 4 BIT	003779	*	3	003789 37H9	1224			
AS 14		ADM	03		21A4					003784	6	3	021046 J0D6	1225			CS46
AS 15		TZB	A		*&10				CHECK A BIT	003789	*	5	003799 3XZ9	1226			
AS 16		ADM	03		21AA					003794	6	3	021054 JOE4	1227			CS47
AS 17		TZB	B		*&10				CHECK B BIT	003799	*	6	003809 3Y-9	1228			
AS 18		ADM	03		21AB					003804	6	3	021062 J0F2	1229			CS48
AS 19	NOERRA321W	SET	03		3					003809	B	3	000003 0063	1230			
AS 20		LOD	03		#001*					003814	8	3	050384 #3HM	1231			DA40
AS 21		RCV			SST21RDIN-3				RCV AT CHAR 2	003819	U		023176 L176	1232			CW07
AS 22		TZB	8		*&10				CHECK CH 2 FOR ERROR	003824	*	4	003834 3Y34	1233	084		
AS 23		TR			NOERRB321W				TR IF 8 BIT ON-NO ERROR	003829	I		003884 3884	1234			AS34
AS 24		TZB	01		*&10				CHECK 1 BIT	003834	*	1	003844 38U4	1235			
AS 25		ADM	03		21B1					003839	6	3	021070 J0G0	1236			CT01
AS 26		TZB	02		*&10				CHECK 2 BIT	003844	*	2	003854 38N4	1237			
AS 27		ADM	03		21B2					003849	6	3	021078 J0G8	1238			CT02
AS 28		TZB	4		*&10				CHECK 4 BIT	003854	*	3	003864 38F4	1239			
AS 29		ADM	03		21B4					003859	6	3	021086 JOH6	1240			CT03
AS 30		TZB	A		*&10				CHECK A BIT	003864	*	5	003874 3YX4	1241			
AS 31		ADM	03		21BA					003869	6	3	021094 JOI4	1242			CT04
AS 32		TZB	B		*&10				CHECK B BIT	003874	*	6	003884 3YQ4	1243			
AS 33		ADM	03		21BB					003879	6	3	021102 J1&2	1244			CT05
AS 34	NOERRB321W	TR			@9999					003884	I		009999 9999	1245	085		
AS 35		TITLE			WRITE PROGRAM FOR CHANNEL 22										1301		
AS 36	CH22WR	SEL			2200					003889	2		002200 2200	1302			
AS 37		TRR			WR22					003894	0	1	003939 39T9	1303			AS46
AS 38	SELMODIF2	SET	01		1					003899	B	1	000001 00#1	1304			
AS 39		LOD	01		#9*				LOAD 9 TO CMP FOR LAST TAPE	003904	8	1	050379 #3XR	1305			DA38
AS 40		CMP	01		CH22WR				CMP UNIT POS OF PRESENT SEL ADD.	003909	4	1	003889 38Y9	1306			AS36
AS 41		TRE			CMPRECCT22					003914	L		003969 3969	1307			AT05
AS 42		SET	01		1					003919	B	1	000001 00#1	1308			
AS 43		LOD	01		#1*					003924	8	1	050378 #3XQ	1309			DA37
AS 44		ADM	01		CH22WR					003929	6	1	003889 38Y9	1310			AS36
AS 45		TR			CH22WR				TR TO WRITE NEXT TAPE	003934	I		003889 3889	1311			AS36
AS 46	WR22	WR			@40000					003939	R		040000 000~	1312			
AS 47		LIP			2200					003944	,	15	002200 2B&0	1313	086		
AS 48		SEL			I:CH22WR										1314		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AT 01		EIA			CH22WR						003949	*	10	003889	3QQ9	1314	AS36
AT 02		SEL			CH22WR						003954	2		003829	3889	1314	AS36
AT 03		TSA			EOFHTC22						003959	0	3	004054	40E4	1315	AT23
AT 04		TR			SELMODIF2						003964	1		003899	3899	1316	AS38
AT 05	CMPRECCT22	SET	05	5							003969	B	5	000005	0#*5	1317	
AT 06		LOD	05		FXNORCWR						003974	8	5	022594	KVZ4	1318	Cv13
AT 07		CMP	05		@40004					CMP FOR LAST REC TO BE WRITTEN	003979	4	5	040004	0#*M	1319	
AT 08		TRE			EOFCH22						003984	L		004069	4069	1320	AT28
AT 09	SWCNOP	SETOF			SWC#					ENABLE TIP TO STM PROGRAM						1321	
AT10	SWCNOP	RCVS			SWC						003989	U		001150	1150		AF32
AT11		TMTS	1		#G1#						003994	9	1	050001	0#*J		#A01
AT 12		SET	04	1							003999	B	4	000001	0#01	1322	
AT 13		LOD	04	#0*							004004	8	4	050377	#T7P	1323	087#A36
AT 14		UNL	04	CH22WR						RESTORE TAPE ADDRESS TO 0	004009	7	4	003889	3Y89	1324	AS36
AT 15		SET	05	5							004014	B	5	000005	0#*5	1325	
AT 16		LOD	05	#00001*						INCREMENT REC NO. FOR CH 22	004019	8	5	050074	##XM	1326	#A16
AT 17		ADM	05	@40004							004024	6	5	040004	0#*M	1327	
AT 18		LIP		2200							004029	*	15	002200	2B&0	1328	
AT 19		SEL		500							004034	2		000500	0500	1329	
AT 20		WR		#LIP 2200 FAILED#*							004039	R		050710	#71-	1330	#A71
AT 21		HLT		2222							004044	J		002222	2222	1331	
AT 22		TR		*-20							004049	1		004029	4029	1332	
AT 23	EOFHTC22	TTC			TTCCH22					TR TO TTC ROUTINE CH 22	004054	0	2	004219	42J9	1341	AU16
AT 24		TRS			EOFCH22					TR TO EOF CHANNEL 22	004059	0		004069	4069	1342	AT28
AT 25		TR			SELMODIF2					FALSE TSA	004064	1		003899	3899	1343	088AS38
AT 26		TITLE			I+CH22RWD					EOF ROUTINE CHANNEL 22						1355	
AT 27	EOFCH22	SETOF			SW22#											1356	
AT28	EOFCH22	RCVS			SW22						004069	U		001190	1190		AG04
AT29		TMTS	1		#G1#						004074	9	1	050001	0#*J		#A01
AT 30	CH22RWD	SEL			2200						004079	2		002200	2200	1357	
AT 31		TRR			TMCH22						004084	0	1	004094	40Z4	1358	AT33
AT 32		TR			CH22RWDMOD						004089	1		004124	4124	1359	AT40
AT 33	TMCH22	WTM								TAPE MARK CH 22 TAPES	004094	3		000001	0001	1360	
AT 34		LIP		2200							004099	*	15	002200	2B&0	1361	
AT 35		SEL			I+CH22RWD										1362		
AT 36		EIA			CH22RWD						004104	*	10	004079	4-P9	1362	AT30
AT 37		SEL			CH22RWD						004109	2		004079	4079	1362	AT30
AT 38		IOF									004114	3		000000	0000	1363	
AT 39		RWD									004119	3		000002	0002	1364	
AT 40	CH22RWDMOD	SET	01	1							004124	8	1	000001	00#1	1365	089
AT 41		LOD	01	#9#							004129	8	1	050379	#3XR	1366	#A38
AT 42		CMP	01	CH22RWD						CMP FOR LAST TAPE 22	004134	4	1	004079	40X9	1367	AT30
AT 43		TRE			STOCH22CTR						004139	L		004164	4164	1368	AU03
AT 44		SET	01	1							004144	B	1	000001	00#1	1369	
AT 45		LOD	01	#1#							004149	8	1	050378	#3XQ	1370	#A37

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AU 01		ADM	01		CH22RWD			MODIFY SEL ADD BY 1							
AU 02		TR			CH22RWD				004154	6	1	004079 40X9	1371		AT30
AU 03	STOCH22CTR	SET	05	5				SETUP COUNTER PRINT AREA	004159	1		004079 4079	1372		AT30
AU 04		LOD	05	@40004					004164	B	5	000005 0##5	1373		
AU 05		TAAC		UNLFXCH22					004169	8	5	040004 0##M	1374		
AU 06		UNL	05	VARIABLE22				UNL VARIABLE LENGTH REC NO.	004174	I	1	004189 41Y9	1375	AU08	
AU 07		TR		*&10					004179	7	5	021204 JS#4	1376	CT14	
AU 08	UNLFXCH22	UNL	05	FIXED22				UNL FIXED LENGTH REC NO.	004184	1		004194 4194	1377	090	
AU 09		SETON		SWU#											1378A
AU 10		RCVS		SWU					004194	U		001080 1080			AF18
AU 11		TMTS	1	#1#					004199	9	1	050378 #3XQ			#A37
AU 12		LIP		2200					004204	15		002200 2B&0	1379		
AU 13		HLT		2120				LIP FAILED	004209	J		002120 2120	1380		
AU 14		TR		*-10					004214	1		004204 4204	1381		
AU 15		TITLE		TTC CHANNEL 22											1401
AU 16	TTCCH22	TAF		WRCKHLT22				TR TO HALT ON CH IF 916 ON	004219	I	6	004229 4SK9	1402	AU18	
AU 17		TR		TTCTYPCH22					004224	1		004234 4234	1403	AU19	
AU 18	WRCKHLT22	HLT		2200					004229	J		002200 2200	1404		
AU 19	TTCTYPCH22	SET	11	0				CASU 11 RESERVED FOR 5 CONSECUTIVE	004234	B	11	000000 0-&0	1405		
AU 20		SET	11	5				SKIP COUNTER-CH 22	004239	B	11	000005 0-&5	1406		
AU 21	SETSELREC2	SET	05	5					004244	B	5	000005 0##5	1407	091	
AU 22		LOD	05	@40004					004249	8	5	040004 0##M	1408		
AU 23		UNL	05	TTCERMSG22				UNLOAD REC N3.	004254	7	5	021474 JUX4	1409	CT31	
AU 24		SET	04	4					004259	B	4	000004 0#04	1410		
AU 25		LOD	04	CH22WR				AND TAPE SEL	004264	B	4	003889 3Y89	1411	AS36	
AU 26		UNL	04	ERRSEL22					004269	7	4	021468 JU68	1412	CT30	
AU 27		RCVS		NOERRB322WG1					004274	U		005011 5011	1413	AY06	
AU 28		TSL		ENTRD322WR					004279	1	1	004794 47Z4	1414	AX08	
AU 29		SEL		I•CH22WR											1415
AU 30		EIA		CH22WR					004284	10		003889 3QQ9	1415		AS36
AU 31		SEL		CH22WR					004289	2		003889 3889	1415		AS36
AU 32		BSP						BKSP ERROR TAPE	004294	3		000004 0004	1416		
AU 33		LIP		2200					004299	15		002200 2B&0	1417		
AU 34		SEL		I•CH22WR				AND WRITE REC AGAIN							1418
AU 35		EIA		CH22WR				AND WRITE REC AGAIN	004304	10		003889 3QQ9	1418	092	
AU 36		SEL		CH22WR				AND WRITE REC AGAIN	004309	2		003889 3889	1418		AS36
AU 37		WR		@40000				IN SAME AREA	004314	R		040000 000-	1419		
AU 38		LIP		2200					004319	15		002200 2B&0	1420		
AU 39		SEL		I•CH22WR											1421
AU 40		EIA		CH22WR					004324	10		003889 3QQ9	1421		AS36
AU 41		SEL		CH22WR					004329	2		003889 3889	1421		AS36
AU 42		TTC		BSPSKP22					004334	0	2	004414 44J4	1422		ÄV15
AU 43		SET	05	5					004339	B	5	000005 0##5	1423		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
AV 01		LOD	05	#00001#						004344	8	5	050074 ##XM	1424	■A16		
AV 02		ADM	05	TOTWRER22		INCREMENT TOTAL TEMP WR CTR & 1				004349	6	5	021339 JTT9	1425	CT22		
AV 03		LDA	08	ADM22						004354	#	8	004394 4L94	1426	AV11		
AV 04		SET	01	1		IF REWRITE IN SAME AREA OF				004359	B	1	000001 00#1	1427			
AV 05		LOD	01	CH22WR		ALSO INCREMENT SELECTED TAPE TEMP				004364	B	1	003889 38Y9	1428	093AS36		
AV 06		UNL	01	CTRLOCMOD2-1		WR CTR PLUS 1				004369	7	1	004408 44#8	1428A	AV14		
AV 07		LDA	01	CTRLOCMOD2						004374	#	1	004409 44#9	1428B	AV14		
AV 08		AAM	01	ADM22						004379	@	1	004394 43Z4	1428C	AV11		
AV 09		SET	02	3						004384	B	2	000003 00-3	1428D			
AV 10		LOD	02	#001#						004389	B	2	050384 #3QM	1428E	■A40		
AV 11	ADM22	ADM	02	TEMWR2200-40						004394	6	2	021234 J2L4	1428F	CT19		
AV 12		ULA	08	ADM22						004399	*	8	004394 4L94	1428G	AV11		
AV 13		TR		SELMODIF2						004404	1		003899 3899	1428H	AS38		
AV 14	CTRLOCMOD2	HLT		0000						004409	J		000000 0000	1428I			
AV 15	BSPSKP22	RCVS		NOERRB322W&1						004414	U		005011 5011	1428J	AY06		
AV 16		TSL		ENTRD322WR						004419	I	1	004794 47Z4	1428K	AX08		
AV 17		TITLE		BACKSPACE SKIP ROUTINE											1428L 094		
AV 18		SEL	I	• CH22WR		IF TTC AFTER 2ND WR IN SAME									1428M		
AV 19		EIA		CH22WR		IF TTC AFTER 2ND WR IN SAME				004424	,	10	003889 3QQ9	1428M		AS36	
AV 20		SEL		CH22WR		IF TTC AFTER 2ND WR IN SAME				004429	2		003889 3889	1428M		AS36	
AV 21		BSP				AREA BKSP AND SKIP TAPE				004434	3		000004 0004	1428N			
AV 22		LIP		2200						004439	,	15	002200 2B&0	1428O			
AV 23		SEL	I	• CH22WR											1428P		
AV 24		EIA		CH22WR						004444	,	10	003889 3QQ9	1428P		AS36	
AV 25		SEL		CH22WR						004449	2		003889 3889	1428P		AS36	
AV 26		SKP								004454	3		000009 0009	1428Q			
AV 27		LIP		2200						004459	,	15	002200 2B&0	1428R			
AV 28		SET	05	5						004464	B	5	000005 0#*5	1428S			
AV 29		LOD	05	#00001#		INCREMENT TOTAL SKIP COUNTER				004469	B	5	050074 ##XM	1428T	■A16		
AV 30		ADM	05	TOTSK22		PLUS ONE				004474	6	5	021459 JUV9	1428U	CT28		
AV 31		LDA	08	ADM22SS						004479	#	8	004519 4N19	1428V	AV39		
AV 32		SET	01	1.						004484	B	1	000001 00#1	1428W	095		
AV 33		LOD	01	CH22WR						004489	B	1	003889 38Y9	1428X	AS36		
AV 34		UNL	01	CTRLOCMOD2-1						004494	7	1	004408 44#8	1428Y	AV14		
AV 35		LDA	01	CTRLOCMOD2						004499	#	1	004409 44#9	1428Z	AV14		
AV 36		AAM	01	ADM22SS						004504	@	1	004519 45/9	1429	AV39		
AV 37		SET	02	3						004509	B	2	000003 00-3	1429A			
AV 38		LOD	02	#001#						004514	B	2	050384 #3QM	1430	■A40		
AV 39	ADM22SS	ADM	02	WRSS2200-40						004519	6	2	021354 J3N4	1431	CT25		
AV 40		ULA	08	ADM22SS						004524	*	8	004519 4N19	1432	AV39		
AV 41		NTR	11	WRAGAIN22		IF NOT 5 SKIPS TR TO WR AGAIN				004529	X	11	004599 4NI9	1433	AW09		
AV 42		SET	04	4						004534	B	4	000004 0#04	1434			
AV 43		LOD	04	CH22WR						004539	B	4	003889 3Y89	1435	AS36		
AV 44		UNL	04	FIVESK22						004544	7	4	021495 JU95	1436	096CT34		
AV 45		SEL		500						004549	2		000500 0500	1437			
AV 46		WR		FIVESK22						004554	R		021479 J479	1438	CT34		
AV 47		WR		#RESET DRIVE TO DISCONTINUED#						004559	R		051048 /04Q	1438A	■A88		
AV 48		HLT		5552						004564	J		005552 5552	1439			

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AW 01		SEL		I	CH22WR							1439A			
AW 02		EIA			CH22WR				004569	*	10	003889 3QQ9	1439A		AS36
AW 03		SEL			CH22WR				004574	2		003889 3889	1439A		AS36
AW 04		TRR			WRAGAIN22-10				004579	0	1	004589 45Y9	1439B		AW09
AW 05		TR			SELMODIF2				004584	1		003899 3899	1439C		AS38
AW 06		SET	11	0					004589	B	11	000000 0-60	1440		
AW 07		SET	11	5					004594	B	11	000005 0-65	1441		
AW 08	WRAGAIN22	SEL		I	CH22WR							1442			
AW 09	WRAGAIN22	EIA			CH22WR				004599	*	10	003889 3QQ9	1442		AS36
AW 10		SEL			CH22WR				004604	2		003889 3889	1442		097AS36
AW 11		WR		I	WR22							1443			
AW 12		EIA			WR22				004609	*	10	003939 3RL9	1443		AS46
AW 13		WR			WR22				004614	R		003939 3939	1443		AS46
AW 14		LIP			2200				004619	*	15	002200 2B60	1444		
AW 15		SEL		I	CH22WR							1445			
AW 16		EIA			CH22WR				004624	*	10	003889 3QQ9	1445		AS36
AW 17		SEL			CH22WR				004629	2		003889 3889	1445		AS36
AW 18		TTC			SETSELREC2				004634	0	2	004244 42M4	1446		AU21
AW 19		TR			SELMODIF2				004639	1		003899 3899	1447		AS38
AW 20		TITLE			CHANNEL 22 RCV TMT ROUTINE							1501			
AW 21	RCVTMT22	SETON			SWC#							1502			
AW 22	RCVTMT22	RCVS			SWC										
AW 23		TMTS	1		#1#				004644	U		001150 1150			AF32
AW 24		TAA			*G20				004649	9	1	050378 #3XQ			DA37
AW 25	LDATMTB2	LDA	04		TMTB			UPDATE FOR NEXT REC	004654	I	1	004674 46x4	1503		
AW 26		ULA	04		TRANSADD22				004659	#	4	020009 -#09	1504		CR08
AW 27		TR			*&15			FOR RANDOM LENGTH REC	004664	*	4	004699 4W99	1505		098AW33
AW 28		LDA	04		TMTA				004669	1		004684 4684	1506		
AW 29		ULA	04		TRANSADD22										
AW 30		SET	5		5										
AW 31		LOD	5		@40004										
AW 32	RECEIVEA22	RCV			@40009										
AW 33	TRANSADD22	TCT			@1239										
AW 34		TMC			TMTCHECK22		TR ON 901 TMT								
AW 35		UNL	5		@40004				004674	#	4	020004 -#04	1507		CR07
AW 36		TAA			SWCTIP				004679	*	4	004699 4W99	1508		AW33
AW 37		SET	04		4				004684	B	5	000005 0#5	1508A		
AW 38		LOD	04		TMTJ				004689	8	5	040004 0#M	1508B		
AW 39		CMP	4		TRANSADD22			CMP FOR LAST REC TC BE TMT	004694	U		040009 000R	1509		
AW 40		TRE			RESTMT22A				004699	*	8	001239 1K39	1510		
A		LDA	05		#00005*				004704	O	11	004774 4PG4	1511		AX03
		AAM	05		LDATMTB2				004709	7	5	040004 0#M	1511A		
		TR			SWCTIP				004714	I	1	001161 11W4	1512		AF34
									004719	B	4	000004 0#04	1513		
									004724	8	4	020049 -#49	1514		099CR16
									004729	4	4	004699 4W99	1515		AW33
									004734	L		004754 4754	1516		AW44
									004739	*	5	050084 4#YM	1517		EA18
									004744	@	5	004659 4W99	1518		AW25
									004749	1		001164 1164	1519		AF34
	22A	NOP			TMTA			RESTORE TMT ADDRESS TO REC A	004754	A		020004 -004	1520		CR07
		LDA	05		*-5				004759	*	5	004754 4XV4	1521		

14408.png
 INDEX TAG OP NU AT OPERAND PROGRAM 4-CHAN - - COMMENTS LOC OP SU ADDRESS PGLIN SER REF
 AX 01 ULA 05 LDATMTB2 004764 * 5 004659 4WV9 1522 AW25
 AX 02 TR SWCTIP 004769 1 001164 1164 1523 AF34
 AX 03 TMTCHECK22 SEL 500 004774 2 000500 0500 1524
 AX 04 WR #901 TCT 22# 004779 R 050521 #52J 1525 DA57
 AX 05 NOP @1234 004784 A 001234 1234 1526 100
 AX 06 TR RECEIVEA22 004789 1 004694 4694 1527 AW32
 AX 07 TITLE READ 03 ROUTINE-CHAN 22 1528
 AX 08 ENTRD322WR NOP @9999 004794 A 009999 9999 1529
 AX 09 SEL I+CH22WR 1530
 AX 10 EIA CH22WR 004799 , 10 003889 3QQ9 1530 AS36
 AX 11 SEL CH22WR 004804 2 003889 3889 1530 AS36
 AX 12 SST SST22RDIN RD 03 004809 Y 3 023250 L2E0 1531 CW23
 AX 13 TSA *&5 004814 0 3 004819 48A9 1532
 AX 14 SET 02 2 004819 B 2 000002 00-2 1533
 AX 15 LOD 02 SST22RDIN-3 004824 8 2 023251 L2N1 1534 CW23
 AX 16 UNL C2 RD322 004829 7 2 021477 J4P7 1535 CT32
 AX 17 TAD *&15 004834 1 4-004849-4Y49 1536
 AX 18 SEL 500 004839 2 000500 0500 1537
 AX 19 TR *&10 004844 1 004854 4854 1538 101
 AX 20 SEL 400 004849 2 000400 0400 1539
 AX 21 WR ERRSEL22 WR TAPE ADD, REC NO., RD 03 CHAR. 004854 R 021465 J465 1540 CT30
 AX 22 NOP @9999 004859 A 009999 9999 1541
 AX 23 ENTRD322RD RCV SST22RDIN-4 RCV AT CHAR 1 004864 U 023250 L250 1542 CW23
 AX 24 TZB 8 *&10 CHECK CH 1 FOR ERROR 004869 4 004879 4Y79 1543
 AX 25 TR NOERRA322W TR IF 8 BIT ON-NO ERROR 004874 1 004939 4939 1544 AX38
 AX 26 SET 03 3 004879 B 3 000003 00&3 1545
 AX 27 LOD 03 #001# 004884 8 3 050384 #3HM 1546 DA40
 AX 28 TZB 01 *&10 CHECK 1 BIT 004889 1 004899 48Z9 1547
 AX 29 ADM 03 22A1 004894 6 3 021505 J5&5 1548 CT37
 AX 30 TZB 02 *&10 CHECK 2 BIT 004899 2 004909 49-9 1549
 AX 31 ADM 03 22A2 004904 6 3 021513 J5A3 1550 102CT38
 AX 32 TZB 4 *&10 CHECK 4 BIT 004909 3 004919 49A9 1571
 AX 33 ADM 03 22A4 004914 6 3 021521 J5B1 1552 CT39
 AX 34 TZB A *&10 CHECK A BIT 004919 5 004929 4ZS9 1553
 AX 35 ADM 03 22AA 004924 6 3 021529 J5B9 1554 CT40
 AX 36 TZB B *&10 004929 6 004939 4ZL9 1555
 AX 37 ADM 03 22AB 004934 6 3 021537 J5C7 1556 CT41
 AX 38 NOERRA322W SET 03 3 004939 B 3 000003 00&3 1557
 AX 39 LOD 03 #001# 004944 8 3 050384 #3HM 1558 DA40
 AX 40 RCV SST22RDIN-3 RCV AT CHAR 2 004949 U 023251 L251 1559 CW23
 AX 41 TZB 8 *&10 CHECK CH 2 FOR ERROR 004954 4 004964 4Z64 1560
 AX 42 TR NOERRB322W TR IF 8 BIT ON-NO ERROR 004959 1 005014 5014 1561 AY06
 AX 43 TZB 01 *&10 CHECK 1 BIT 004964 1 004974 49X4 1562 103
 AX 44 ADM 03 22B1 004969 6 3 021545 J5D5 1563 CT42
 AX 45 TZB 02 *&10 CHECK 2 BIT 004974 2 004984 49Q4 1564
 AX 46 ADM 03 22B2 004979 6 3 021553 J5E3 1565 CT43
 AX 47 TZB 4 *&10 CHECK 4 BIT 004984 3 004994 49I4 1566

c3 4849 48D9

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
AY 01		ADM	03	22B4				CHECK A BIT	004989	6	3	021561 J5F1	1567		CT44
AY 02		TZB	A	*&10					004994	.	5	005004 5#*4	1568		
AY 03		ADM	03	22BA					004999	6	3	021569 J5F9	1569		CT45
AY 04		TZB	B	*610				CHECK B BIT	005004	.	6	005014 5#J4	1570		
AY 05		ADM	03	22BB					005009	6	3	021577 J5G7	1571		CT46
AY 06	NOERRB322W	TR		@9999					005014	1		009999 9999	1572		
AY 07		TITLE			WRITE PROGRAM FOR CHANNEL 23									1601	
AY 08	CH23WR	SEL		2300					005019	2		002300 2300	1602		
AY 09		TRR		WR23					005024	0	1	005069 50W9	1603	104	AY18
AY 10	SELMODIF3	SET	01	1					005029	B	1	000001 00#1	1604		
AY 11		LOD	01	#9#				LOAD 9 TO CMP FOR LAST TAPE	005034	8	1	050379 #3XR	1605		HA38
AY 12		CMP	01	CH23WR				CMP UNIT POS OF PRESENT SEL ADD	005039	4	1	005019 50/9	1606		AY08
AY 13		TRE		CMPRECCT23					005044	L		005099 5099	1607		AY25
AY 14		SET	01	1					005049	B	1	000001 00#1	1608		
AY 15		LOD	01	#1#					005054	8	1	050378 #3XQ	1609		HA37
AY 16		ADM	01	CH23WR					005059	6	1	005019 50/9	1610		AY08
AY 17		TR		CH23WR				TR TO WRITE NEXT TAPE	005064	1		005019 5019	1611		AY08
AY 18	WR23	WR		@45000					005069	R		045000 500-	1612		
AY 19		LIP		2300					005074	.	15	002300 2C&0	1613		
AY 20		SEL	I	CH23WR										1614	
AY 21		EIA		CH23WR					005079	,	10	005019 5-J9	1614		AY08
AY 22		SEL		CH23WR					005084	2		005019 5019	1614	105	AY08
AY 23		TSA		EOFTTC23					005089	0	3	005184 51H4	1615		AY43
AY 24		TR		SELMODIF3					005094	1		005029 5029	1616		AY10
AY 25	CMPRECCT23	SET	05	5					005099	B	5	000005 0#*5	1617		
AY 26		LOD	05	FXNORCWR					005104	8	5	022594 KVZ4	1618		CV13
AY 27		CMP	05	@45004				CMP FOR LAST REC TO BE WRITTEN	005109	4	5	045004 5#*M	1619		
AY 28		TRE		EOFCH23					005114	L		005199 5199	1620		AZ03
AY 29	SWDNOP	SETOF		SWD#										1621	
AY 30	SWDNOP	RCVS		SWD					005119	U		001165 1165			AF35
AY 31		TMTS	1	#61#					005124	9	1	050001 #0#J			HA01
AY 32		SET	04	1					005129	B	4	000001 0#01	1622		
AY 33		LOD	04	#0#					005134	8	4	050377 #T7P	1623		HA36
AY 34		UNL	04	CH23WR					005139	7	4	005019 5#19	1624		AY08
AY 35		SET	05	5					005144	B	5	000005 0#*5	1625	106	
AY 36		LOD	05	#00001#					005149	8	5	050074 #*XM	1626		HA16
AY 37		ADM	05	@45004					005154	6	5	045004 5#*M	1627		
AY 38		LIP		2300					005159	,	15	002300 2C&0	1628		
AY 39		SEL		500					005164	2		000500 0500	1629		
AY 40		WR		#LIP 2300 FAILED#*					005169	R		050726 #720	1530		HA72
AY 41		HLT		2323					005174	J		002323 2323	1631		
AY 42		TR		*-20					005179	1		005159 5159	1532		
AY 43	EOFTTC23	TTC		TTCCCH23				TR TO TTC ROUTINE CH 23	005184	0	2	005349 53M9	1641		AZ36
AY 44		TRS		EOFCH23				TR TO EOF CHAN 23	005189	0		005199 5199	1642		AZ03
AY 45		TR		SELMODIF3				FALSE TSA	005194	1		005029 5029	1643		AY10

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
gscans/g0014407.png	AZ 01								EOF ROUTINE CHANNEL 23					1644		
AZ 02	EOFCH23	SETOF			SW23B									1645		
AZ 03	EOFCH23	RCVS			SW23					005199 U	001195	1195			AG05	
AZ 04		TMTS	1		#61#					005204 9	1	050001	#0#J		107#A01	
AZ 05	CH23RWD	SEL			2300					005209 2	002300	2300	1646			
AZ 06		TRR			TMCH23					005214 0	1	005224	52S4	1647	AZ08	
AZ 07		TR			CH23RWDMOD					005219 1	005254	5254	1648		AZ15	
AZ 08	TMCH23	WTM							TAPE MARK CH 23 TAPES	005224 3		000001	0001	1649		
AZ 09		LIP			2300					005229	,	15	002300	2C&0	1650	
AZ 10		SEL			I-CH23RWD									1651		
AZ 11		EIA			CH23RWD					005234 ,	10	005209	5K-9	1651	AZ05	
AZ 12		SEL			CH23RWD					005239 2	005209	5209	1651		AZ05	
AZ 13.		IOF								005244 3	000000	0000	1652			
AZ 14		RWD								005249 3	000002	0002	1653			
AZ 15	CH23RWDMOD	SET	01		1					005254 B	1	000001	00#1	1654		
AZ 16		LOD	01		#9#					005259 8	1	050379	#3XR	1655	DA38	
AZ 17		CMP	01		CH23RWD				CMP FOR LAST TAPE 23	005264 4	1	005209	52#9	1656	108AZ05	
AZ 18		TRE			STOCH23CTR					005269 L	005294	5294	1657		AZ23	
AZ 19		SET	01		1					005274 B	1	000001	00#1	1658		
AZ 20		LOD	01		#1#					005279 8	1	050378	#3XQ	1659	DA37	
AZ 21		ADM	01		CH23RWD				MODIFY SEL ADD BY 1	005284 6	1	005209	52#9	1660	AZ05	
AZ 22		TR			CH23RWD					005289 1	005209	5209	1661		AZ05	
AZ 23	STOCH23CTR	SET	05		5				SETUP COUNTER PRINT AREA	005294 B	5	000005	0##5	1662		
AZ 24		LOD	05		@45004					005299 8	5	045004	5##M	1663		
AZ 25		TAA			UNLFXCH23					005304 I	1	005319	53/9	1664	AZ28	
AZ 26		UNL	05		VARIABLE23				UNL VARIABLE LENGTH REC NO.	005309 7	5	021679	JWx9	1665	CU07	
AZ 27		TR			*610					005314 1	005324	5324	1666			
AZ 28	UNLFXCH23	UNL	05		FIXED23				UNL FIXED LENGTH REC NO.	005319 7	5	021694	JWZ4	1667	CU09	
AZ 29		SETON			SWV#									1667A 109		
AZ30		RCVS			SWV					005324 U	001095	1095			AF21	
AZ31		TMTS	1		#1#					005329 9	1	050378	#3XQ		DA37	
AZ 32		LIP			2300					005334 ,	15	002300	2C&0	1668		
AZ 33		HLT			@2323				LIP FAILED	005339 J	002323	2323	1669			
AZ 34		TR			*-10					005344 1	005334	5334	1670			
AZ 35		TITLE			TTC CHANNEL 23									1671		
AZ 36	TTCCCH23	TAF			WRCKHLT23				TR TO HALT ON CH IF 916 ON	005349 I	6	005359	5TN9	1672	AZ38	
AZ 37		TR			TTCTYPCH23					005354 1	005364	5364	1673		AZ39	
AZ 38	WRCKHLT23	HLT			2300					005359 J	002300	2300	1674			
AZ 39	TTCTYPCH23	SET	12		0				CASU 12 RESERVED FOR 5 CONSECUTIVE	005364 B	12	000000	0&00	1675		
AZ 40		SET	12		5				SKIP COUNTER CH 23	005369 B	12	000005	0&05	1676		
AZ 41	SETSELREC3	SET	05		5					005374 B	5	000005	0##5	1677		
AZ 42		LOD	05		@45004					005379 8	5	045004	5##M	1678		
AZ 43		UNL	05		TTCERMSG23				UNLOAD REC NO.	005384 7	5	021949	JZU9	1679	110CU24	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BA 01		SET	04	4					005389	B	4	000004	0#04	1680		
BA 02		LOD	04		CH23WR			AND TAPE SEL	005394	B	4	005019	5#19	1681		
BA 03		UNL	04		ERRSEL23				005399	7	4	021943	JZ43	1682	CU23	
BA 04		RCVS			NOERRB323WG1				005404	U		006141	6141	1683	BD28	
BA 05		TSL			ENTRD323WR				005409	I	1	005924	59S4	1684	BC30	
BA 06		SEL		I+CH23WR		BSP ERROR TAPE								1685		
BA 07		EIA		CH23WR		BSP ERROR TAPE			005414	,	10	005019	5-J9	1685		
BA 08		SEL		CH23WR		BSP ERROR TAPE			005419	2		005019	5019	1685	AY08	
BA 09		BSP							005424	3		000004	0004	1686		
BA 10		LIP		2300		AND WRITE REC AGAIN			005429	,	15	002300	2C60	1687		
BA 11		SEL		I+CH23WR		IN SAME AREA								1688		
BA 12		EIA		CH23WR		IN SAME AREA			005434	,	10	005019	5-J9	1688		
BA 13		SEL		CH23WR		IN SAME AREA			005439	2		005019	5019	1688	AY08	
BA 14		WR		@45000					005444	R		045000	500-	1689	111	
BA 15		LIP		2300					005449	,	15	002300	2C60	1690		
BA 16		SEL		I+CH23WR										1691		
BA 17		EIA		CH23WR					005454	,	10	005019	5-J9	1691		
BA 18		SEL		CH23WR					005459	2		005019	5019	1691	AY08	
BA 19		TTC		BSPSKP23					005464	O	2	005544	55M4	1692	BA35	
BA 20		SET	05	5					005469	B	5	000005	0#*5	1693		
BA 21		LOD	05	#00001*					005474	8	5	050074	##XM	1694	DA16	
BA 22		ADM	05	TOTWRER23		INCREMENT TOTAL TEMP WR CTR BY 1			005479	6	5	021814	JY/4	1695	CU15	
BA 23		LDA	08	ADM23					005484	*	8	005524	5N24	1696	BA31	
BA 24		SET	01	1		IF REWRITE IN SAME AREA OF			005489	B	1	000001	00#1	1697		
BA 25		LOD	01	CH23WR		ALSO INCREMENT SELECTED TAPE TEMP			005494	8	1	005019	50/9	1698	AY08	
BA 26		UNL	01	CTRLOCMOD3-1		WR CTR PLUS 1			005499	7	1	005538	55T8	1698A	BA34	
BA 27		LDA	01	CTRLOCMOD3					005504	*	1	005539	55T9	1698B	112BA34	
BA 28		AAM	01	ADM23					005509	@	1	005524	55S4	1698C	BA31	
BA 29		SET	02	3					005514	B	2	000003	00-3	1698D		
BA 30		LOD	02	#001*					005519	8	2	050384	#3QM	1698E	DA40	
BA 31	ADM23	ADM	02	TEMWR2300-40					005524	6	2	021709	J7-9	1698F	CU12	
BA 32		ULA	08	ADM23					005529	*	8	005524	5N24	1698G	BA31	
BA 33		TR		SELMODIF3					005534	1		005029	5029	1698H	AY10	
BA 34	CTRLOCMOD3	HLT		0000					005539	J		000000	0000	1698I		
BA 35	BSPSKP23	RCVS		NOFRRB323WG1					005544	U		006141	6141	1698J		
BA 36		TSL		ENTRD323WR					005549	I	1	005924	59S4	1698K	BC30	
BA 37		TITLE		BACKSPACE SKIP ROUTINE										1698L		
BA 38		SEL		I+CH23WR		IF TTC AFTER 2ND WR IN SAME AREA								1698M		
BA 39		EIA		CH23WR		IF TTC AFTER 2ND WR IN SAME AREA			005554	,	10	005019	5-J9	1698M	AY08	
BA 40		SEL		CH23WR		IF TTC AFTER 2ND WR IN SAME AREA			005559	2		005019	5019	1698M	AY08	
BA 41		BSP				BKSP AND SKIP TAPE			005564	3		000004	0004	1698N	113	
BA 42		LIP		2300					005569	,	15	002300	2C60	1698O		
BA 43		SEL		I+CH23WR										1698P		
BA 44		EIA		CH23WR					005574	,	10	005019	5-J9	1698P	AY08	
BA 45		SEL		CH23WR					005579	2		005019	5019	1698P	AY08	

INDEX	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BB 01	SKP								005584	3	000009	0009	1698Q		
BB 02	LIP			2300					005589	15	002300	2C&0	1698R		
BB 03	SET	05		5					005594	B	5	000005	#*#5	1698S	
BB 04	LOD	05		#00001#					005599	8	5	050074	#*XM	1698T	DA16
BB 05	ADM	05		TOTSK23					005604	6	5	021934	JZT4	1698U	CU21
BB 06	LDA	08		ADM23SS					005609	*	8	005649	5049	1698V	BB14
BB 07	SET	01		1					005614	B	1	000001	0#1	1698W	
BB 08	LOD	01		CH23WR					005619	8	1	005019	50/9	1698X	AY08
BB 09	UNL	01		CTRLOCMOD3-1					005624	7	1	005538	55T8	1698Y	114BA34
BB 10	LDA	1		CTRLOCMOD3					005629	*	1	005539	55T9	1698Z	BA34
BB 11	AAM	01		ADM23SS					005634	@	1	005649	56U9	1701	BB14
BB 12	SET	02		3					005639	B	2	000003	00-3	1702	
BB 13	LOD	02		#001#					005644	8	2	050384	#3QM	1703	DA40
BB 14	ADM	02		WRSS2300-40					005649	6	2	021829	J8K9	1704	CU18
BB 15	ULA	08		ADM23SS					005654	*	8	005649	5049	1705	BB14
BB 16	NTR	12		WRAGAIN23				IF NOT 5 SKIPS TR TO WR AGAIN	005659	X	12	005729	5G29	1706	BB32
BB 17	SET	04		4					005664	B	4	000004	0#04	1707	
BB 18	LOD	04		CH23WR					005669	8	4	005019	5#19	1708	AY08
BB 19	UNL	04		FIVESK23					005674	7	4	021270	JZ70	1709	CU27
BB 20	SEL			500					005679	2		000500	0500	1710	
BB 21	WR			FIVESK23					005684	R		021954	J954	1711	115CU27
BB 22	WR			#RESET DRIVE TO DISCONTINUE#*					005689	R		051048	/04Q	1711A	DA88
BB 23	HLT			5253					005694	J		005253	5253	1712	
BB 24	SEL		I	CH23WR										1712A	
BB 25	EIA			CH23WR					005699	,	10	005019	5-J9	1712A	AY08
BB 26	SEL			CH23WR					005704	2		005019	5019	1712A	AY08
BB 27	TRR			WRAGAIN23-10					005709	0	1	005719	57/9	1712B	BB32
BB 28	TR			SELMODIF3					005714	1		005029	5029	1712C	AY10
BB 29	SET	12		0					005719	B	12	000000	0&00	1713	
BB 30	SET	12		5					005724	B	12	000005	0&05	1714	
BB 31	WRAGAIN23	SEL	I	CH23WR										1715	
BB 32	WRAGAIN23	EIA		CH23WR					005729	,	10	005019	5-J9	1715	AY08
BB 33	SEL			CH23WR					005734	2		005019	5019	1715	AY08
BB 34	WR		I	WR23										1716	
BB 35	EIA			WR23					005739	,	10	005069	5-09	1716	AY18
BB 36	WR			WR23					005744	R		005069	5069	1716	116AY18
BB 37	LIP			2300					005749	,	15	002300	2C&0	1717	
BB 38	SEL		I	CH23WR										1718	
BB 39	EIA			CH23WR					005754	,	10	005019	5-J9	1718	AY08
BB 40	SEL			CH23WR					005759	2		005019	5019	1718	AY08
BB 41	TTC			SETSELREC3					005764	0	2	005374	53P4	1719	AZ41
BB 42	TR			SELMODIF3					005769	1		005029	5029	1720	AY10
BB 43	TITLE			CHANNEL 23 RCV TMT ROUTINE										1757	
BB 44	RCVTMT23	SETON		SWD#										1758	
BB45	RCVTMT23	RCVS		SWD					005774	U		001165	1165		AF35
BB46		TMTS	1	#1#					005779	9	1	050378	#3XQ		DA37

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BC 01		TAA			*620					005784	I	1	005804	58#4	1759	
BC 02	LDATMTB3	LDA	04		TMTB				IF 911 ON DO NOT CHANGE TMT ADDRESS	005789	#	4	020009	-#09	1760	CR08
BC 03		ULA	04		TRANSADD23				UPDATE TMT ADDRESS	005794	*	4	005829	5Y29	1761	BC10
BC 04		TR			*615					005799	1		005814	5814	1762	
BC 05		LDA	04		TMTA					005804	#	4	020004	-#04	1763	117CR07
BC 06		ULA	04		TRANSADD23					005809	*	4	005829	5Y29	1764	BC10
BC 07		SET	5		5					005814	B	5	000005	0#45	1764A	
BC 08		LOD	5		@45004					005819	8	5	045004	5##M	1764B	
BC 09	RECEIVEA23	RCV			@45009					005824	U		045009	500R	1765	
BC 10	TRANSADD23	TCT			@1239					005829	*	8	001239	1K39	1766	
BC 11		TMC			TMTCHECK23			901 ON TRANSMIT		005834	O	11	005904	5R&4	1767	BC25
BC 12		UNL	5		@45004					005839	7	5	045004	5##M	1767A	
BC 13		TAA			SWDTIP			IF 911 ON DO NOT UPDATE TMT ADDRESS		005844	I	1	001179	11x9	1768	AG01
BC 14		SET	04		4					005849	B	4	000004	0#04	1769	
BC 15		LOD	04		TMTJ					005854	8	4	020049	-#49	1770	CR16
BC 16		CMP	4		TRANSADD23			CMP AGAINST LAST REC TO BE		005859	4	4	005829	5Y29	1771	BC10
BC 17		TRE			RESTMT23A					005864	L		005884	5884	1772	118BC21
BC 18		LDA	05		#00005*					005869	*	5	050084	##YM	1773	DA18
BC 19		AAM	05		LDATMTB3					005874	@	5	005789	5XY9	1774	BC02
BC 20		TR			SWDTIP					005879	1		001179	1179	1775	AG01
BC 21	RESTMT23A	NOP			TMTA					005884	A		020004	-004	1776	CR07
BC 22		LDA	05		*-5					005889	#	5	005884	5YY4	1777	
BC 23		ULA	05		LDATMTB3					005894	*	5	005789	5XY9	1778	BC02
BC 24		TR			SWDTIP					005899	1		001179	1179	1779	AG01
BC 25	TMTCHECK23	SEL			500					005904	2		000500	0500	1780	
BC 26		WR			#901 TCT 23#*					005909	R		050532	#53K	1781	DA58
BC 27		NOP			@1234					005914	A		001234	1234	1782	
BC 28		TR			RECEIVEA23					005919	I		005824	5824	1783	BC09
BC 29		TITLE			READ 03 ROUTINE-CHAN 23									1801	119	
BC 30	ENTRD323WR	NOP			@9999					005924	A		009999	9999	1802	
BC 31		SEL			I.CH23WR									1803		
BC 32		EIA			CH23WR					005929	,	10	005019	5-J9	1803	AY08
BC 33		SEL			CH23WR					005934	2		005019	5019	1803	AY08
BC 34		SST			SST23RDIN	RD 03				005939	Y	3	023325	L385	1804	CW39
BC 35		TSA			*65					005944	C	3	005949	5909	1805	
BC 36		SET	02		2					005949	B	2	000002	00-2	1806	
BC 37		LOD	02		SST23RDIN-3					005954	8	2	023326	L3K6	1807	CW39
BC 38		UNL	02		RD323					005959	7	2	021952	J9N2	1808	
BC 39		TAD			*615					005964	I		005979	5279	1809	CU25
BC 40		SEL			500					005969	2		000500	0500	1810	
BC 41		TR			*610					005974	1		005984	5984	1811	
BC 42		SEL			400					005979	2		000400	0400	1812	
BC 43		WR			ERRSEL23				WR TAPE ADD, REC NO., RD 03 CHAR.	005984	R		021940	J940	1813	120CU23
BC 44		NOP			@9999					005989	A		009999	9999	1814	
BC 45	ENTRD323RD	RCV			SST23RDIN-4				RCV AT CHAR 1	005994	U		023325	L325	1815	CW39
BC 46		TZB	8		*610				CHECK CH 1 FOR DRROR	005999	,	4	006009	6#09	1816	
BC 47		TR			NCERRA323W					006004	I		006069	6069	1817	BD13

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BD 01		SET	03	3							006009	B	3	000003	0063	1818		
BD 02		LOD	03	#001#							006014	8	3	050384	#3HM	1819	DA40	
BD 03		TZB	01	*&10			CHECK 1 BIT				006019	*	1	006029	6059	1820		
BD 04		ADM	03	23A1							006024	6	3	021980	J9H0	1821	CU30	
BD 05		TZB	02	*&10			CHECK 2 BIT				006029	*	2	006039	60L9	1822		
BD 06		ADM	03	23A2							006034	6	3	021988	J9H8	1823	CU31	
BD 07		TZB	4	*&10			CHECK 4 BIT				006039	*	3	006049	60D9	1824		
BD 08		ADM	03	23A4							006044	6	3	021996	J9I6	1825	121CU32	
BD 09		TZB	A	*&10			CHECK A BIT				006049	*	5	006059	6#V9	1826		
BD 10		ADM	03	23AA							006054	6	3	022004	K0G4	1827	CU33	
BD 11		TZB	B	*&10			CHECK B BIT				006059	*	6	006069	6#09	1828		
BD 12		ADM	3	23AB							006064	6	3	022012	K0A2	1829	CU34	
BD 13	NOERRA323W	SET	03	3							006069	B	3	000003	0063	1830		
BD 14		LOD	03	#001#							006074	8	3	050384	#3HM	1831	DA40	
BD 15		RCV		SST23RDIN-3			RCV AT CHAR 2				006079	U		023326	L326	1932	CW39	
BD 16		TZB	8	*&10			CHECK CHAR 2 FOR ERROR				006084	*	4	006094	6#94	1833		
BD 17		TR		NOERRB323W			TR IF 8 BIT ON-NO ERROR				006089	1		006144	6144	1834	BD28	
BD 18		TZB	01	*&10			CHECK 1 BIT				006094	*	1	006104	61#4	1835		
BD 19		ADM	03	23B1							006099	6	3	022020	K0B0	1836	CU35	
BD 20		TZB	02	*&10			CHECK 2 BIT				006104	*	2	006114	61J4	1837	122	
BD 21		ADM	03	23B2							006109	6	3	022028	K0B8	1838	CU36	
BD 22		TZB	4	*&10			CHECK 4 BIT				006114	*	3	006124	61B4	1839		
BD 23		ADM	03	23B4							006119	6	3	022036	K0C6	1840	CU37	
BD 24		TZB	A	*&10			CHECK A BIT				006124	*	5	006134	6/T4	1841		
BD 25		ADM	03	23BA							006129	6	3	022044	K0D4	1842	CU38	
BD 26		TZB	B	*&10			CHECK B BIT				006134	*	6	006144	6/M4	1843		
BD 27		ADM	03	23BB							006139	6	3	022052	K0E2	1844	CU39	
BD 28	NOERRB323W	TR		@9999							006144	1		009999	9999	1845		
BD 29		TITLE		COMPUTATION PROGRAM												1855		
BD 30	COMPUPRG	SWN		CHK915							006149	A		006219	6219	1857	BD44	
BD 31		RAD		#688888888#							006154	H		050045	#04N	1858	DA11	
BD 32		SUB		#666666666#							006159	P		050037	#03P	1859	DA10	
BD 33		MPY		#&00000002#							006164	V		050029	#02R	1860	123DA09	
BD 34		SET	00	8							006169	B		000008	0008	1861		
BD 35		RND	00	3							006174	E		000003	0003	1862		
BD 36		SHR	00	4							006179	C		000004	0004	1863		
BD 37		LNG	00	4							006184	D		000004	0004	1864		
BD 38		DIV		*680#							006189	W		050004	#00M	1865	DA03	
BD 39		SUB		*6500#							006194	P		050013	#01L	1866	DA06	
BD 40		TRZ		CHK915							006199	N		006219	6219	1867	BD44	
BD 41		SEL		500							006204	Z		000500	0500	1868		
BD 42		WR		#COMPUTE ERROR#*							006209	R		050580	#58-	1869	DA62	
BD 43		TR		HLT7							006214	I		006229	6229	1870	BD46	
BD 44	CHK915	TAE		HLT7							006219	I	5	006229	6559	1871	BD46	
BD 45		TR		COMPUTEXIT							006224	I		006239	6239	1872	124BE01	
BD 46	HLT7	HLT		7777							006229	J		007777	7777	1873		
BD 47		NOP		@9999							006234	A		009999	9999	1874		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BE 01	COMPUTEXIT	TR		*	-5				006239	I		006234 6234	1875			
BE 02		TITLE				FOUR CHANNEL READ PROGRAM							2001			
BE 03	RDSW20	SWN			RDSW21			AT TR TO ELIMINATE CH 20	006244	A		006259 6259	2003		BE06	
BE 04	SWW	SWN			RDSW21			AT TR AT EOF CH 20	006249	A		006259 6259	2004		BE06	
BE 05		TIP			CHAN20RD				006254	• 14		006789 6GQ9	2005		BG40	
BE 06	RDSW21	SWN			RDSW22			AT TR TO ELIMINATE CH 21	006259	A		006274 6274	2006		BE09	
BE 07	SWX	SWN			RDSW22			AT TR AT EOF CH 21	006264	A		006274 6274	2007		BE09	
BE 08		TIP			CHAN21RD				006269	• 14		008479 8DP9	2008		BP11	
BE 09	RDSW22	SWN			RDSW23			AT TR TO ELIMINATE CH 22	006274	A		006289 6289	2009		BE12	
BE 10	SWY	SWN			RDSW23			AT TR AT EOF CH 22	006279	A		006289 6289	2010		BE12	
BE 11		TIP			CHAN22RD				006284	• 14		010194 #AR4	2011		125BX29	
BE 12	RDSW23	SWN			LOOP			AT TR TO ELIMINATE CH 23	006289	A		006304 6304	2012		BE15	
BE 13	SWZ	SWN			LOOP			AT TR AT EOF CH 23	006294	A		006304 6304	2013		BE15	
BE 14		TIP			CHAN23RD				006299	• 14		011874 /HP4	2014		CF41	
BE 15	LOOP	RCVS			COMPUTEXIT&1				006304	U		006236 6236	2019		BE01	
BE 16		TSI			COMPUPRG				006309	I	1	006149 61U9	2020		BD30	
BE 17	EOFSW220	SWT			LOOP			NOP AT EOF CH 20	006314	I		006304 6304	2021		BE15	
BE 18	EOFSW221	SWT			LOOP			NOP AT EOF CH 21	006319	I		006304 6304	2022		BE15	
BE 19	EOFSW222	SWT			LOOP			NOP AT EOF CH 22	006324	I		006304 6304	2023		BE15	
BE 20	EOFSW223	SWT			LOOP			NOP AT EOF CH 23	006329	I		006304 6304	2024		BE15	
BE 21		TITLE				FINAL EOF ROUTINE READ PROGRAM							2025			
BE 22		TAD			*G15				03 6349 C3D9	006334	I	4	006349 6T49	2026		
BE 23		SEL			500					006339	2		000500 0500	2027		
BE 24		TR			*G10					006344	1		006354 6354	2028		126
BE 25		SEL			400					006349	2		000400 0400	2029		
BE 26		WR			#END OF READ PASS#					006354	R		050758 #75Q	2030		DA74
BE 27		WR			JOBNO					006359	R	A	020105 -105	2031		CR23
BE 28		WR			# D#					006364	R	A	050380 #38-	2032		DA39
BE 29		RCV			RDSW20-4					006369	U		006240 6240	2033		BE03
BE 30		TZB	A		PRINT21					006374	• 5		006414 6U/4	2034		BE38
BE 31		WR			#RETRY'S CHAN 20#		8			006379	R	A	050100 #10-	2034A		DA21
BE 32		WR			TMFRD20&1					006384	R		022136 K136	2035		CU46
BE 33		WR			TMFRD20A&1					006389	R		022186 K186	2036		CJ47
BE 34		WR			# D#					006394	R	A	050380 #38-	2037		DA39
BE 35		WR			SST20					006399	R		020450 -450	2038		CS01
BE 36		WR			20A1					006404	R		020550 -550	2039		127CS03
BE 37		WR			# D#					006409	R		050380 #38-	2040		DA39
BE 38		PRINT21			RCV					006414	U		006255 6255	2041		BE06

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
BF 01		TZB	A	PRINT22					006419	• 5	006459 6UV9 2042	BF09
BF 02		WR		#RETRYs CHAN 21#*					006424	RA	050115 #11N 2042A	DA22
BF 03		WR		TMPRD21&1					006429	R	022241 K241 2043	CV02
BF 04		WR		TMPRD21A&1					006434	R	022291 K291 2044	CV03
BF 05		WR		# D#					006439	RA	050380 #38- 2045	DA39
BF 06		WR		SST20					006444	R	020450 -450 2046	CS01
BF 07		WR		21A1					006449	R	021025 J025 2047	CS44
BF 08		WR		# D#					006454	R	050380 #38- 2048	DA39
BF 09	PRINT22	RCV		RDSW22-4					006459	U	006270 6270 2049	BE09
BF 10		TZB	A	PRINT23					006464	• 5	006504 6V#4 2050	128BF18
BF 11		WR		#RETRYs CHAN 22#*					006469	RA	050130 #13- 2050A	DA23
BF 12		WR		TMPRD22&1					006474	R	022346 K346 2051	CV05
BF 13		WR		TMPRD22A&1					006479	R	022396 K396 2052	CV06
BF 14		WR		# D#					006484	RA	050380 #38- 2053	DA39
BF 15		WR		SST20					006489	R	020450 -450 2054	CS01
BF 16		WR		22A1					006494	R	021500 J500 2055	CT37
BF 17		WR		# D#					006499	R	050380 #38- 2056	DA39
BF 18	PRINT23	RCV		RDSW23-4					006504	U	006285 6285 2057	BE12
BF 19		TZB	A	PRINTOTAL					006509	• 5	006549 6VU9 2058	BF27
BF 20		WR		#RETRYs CHAN23#*					006514	RA	050608 #60Q 2058A	DA64
BF 21		WR		TMPRD23&1					006519	R	022451 K451 2059	CV08
BF 22		WR		TMPRD23A&1					006524	R	022501 K501 2060	129CV09
BF 23		WR		# D#					006529	RA	050380 #38- 2061	DA39
BF 24		WR		SST20					006534	R	020450 -450 2062	CS01
BF 25		WR		23A1					006539	R	021975 J975 2063	CU30
BF 26		WR		# D#					006544	R	050380 #38- 2064	DA39
BF 27	PRINTOTAL	WR		TOTTMPRD					006549	R	022555 K555 2065	CV11
BF 28		WR		# D#					006554	R	050380 #38- 2066	DA39
BF 29		WR		CORRTHREE					006559	R	023426 L426 2066A	CX10
BF 30		WR		# D#					006564	R	050380 #38- 2066B	DA39
BF 31		WR		CORRNINE					006569	R	023460 L460 2066C	CX12
BF 32	WR TR			# D# /4/89					006574	R	050380 #38- 2066D	DA39
BF 33		HLT		9999					006579		009999 9999 2067	
BF 34	TITLE			ROUTINE TO RESET COUNTERS BEFORE STARTING TO READ					1	52654		2068 130
BF 35	TITLE			NEST PASS								2069
BF 36	RCV			TMPRD20					006584	U	022139 K139 2070	CU46
BF 37	TMT			RESETRDCTR					006589	9	022609 K609 2071	CV17
BF 38	SET			78					006594	B	000078 0078 2072	
BF 39	LOD			RESETCTRS&32					006599	8	022132 K132 2073B	CU42
BF 40	UNL			20BB					006604	7	020627 -627 2074	CS12
BF 41	UNL			21BB					006609	7	021102 J102 2075	CT05
BF 42	UNL			22BB					006614	7	021577 J577 2076	CT46
BF 43	UNL			23BB					006619	7	022052 K052 2077	CU39
BF 44	SET	5							006624	B 5	0#40 2077A	
BF 45	SET	5		5					006629	B 5	000005 0#45 2077B	
BF 46	UNL	5		CORRTHREE					006634	7 5	023458 LUV8 2077C	CX10
BF 47	UNL	5		CORRNINE					006639	7 5	023492 LUZZ 2077D	CX12
BF 48	IFON			RDSW20#TEST21#								2082 131
BF49	RCVS			*&00006					006644	U	006650 6650	
BF50	TMTS	01		RDSW20					006649	9 1	006240 62U0	BE03

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INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BG01		NOP			TEST21				006654	A		006669 6669			BG06
BG 02		SETON			EOF\$W220#								2083		
BG03		RCVS			EOF\$W220				006659	U		006310 6310			BE17
BG04		TMTS	1		#1*				006664	9	1	050378 #3XQ			#A37
BG 05 TEST21		IFON			RDSW21#TEST22#								2083A		
BG06 TEST21		RCVS			*&00006				006669	U		006675 6675			
BG07		TMTS	01		RDSW21				006674	9	1	006255 62V5			BE06
BG08		NOP			TEST22				006679	A		006694 6694			BG13
BG 09		SETON			EOF\$W221#								2084		
BG10		RCVS			EOF\$W221				006684	U		006315 6315			BE18
BG11		TMTS	1		#1*				006689	9	1	050378 #3XQ			#A37
BG 12 TEST22		IFON			RDSW22#TEST23								2084A		
BG13 TEST22		RCVS			*&00006				006694	U		006700 6700			
BG14		TMTS	01		RDSW22				006699	9	1	006270 62X0			BE09
BG15		NOP			TEST23				006704	A		006719 6719			132BG20
BG 16		SETON			EOF\$W222#								2085		
BG17		RCVS			EOF\$W222				006709	U		006320 6320			BE19
BG18		TMTS	1		#1*				006714	9	1	050378 #3XQ			#A37
BG 19 TEST23		IFON			RDSW23#TESTSWW#								2085A		
BG20 TEST23		RCVS			*&00006				006719	U		006725 6725			
BG21		TMTS	01		RDSW23				006724	9	1	006285 62Y5			BE12
BG22		NOP			TESTSWW				006729	A		006744 6744			BG27
BG 23		SETON			EOF\$W223#								2086		
BG24		RCVS			EOF\$W223				006734	U		006325 6325			BE20
BG25		TMTS	1		#1*				006739	9	1	050378 #3XQ			#A37
BG 26 TESTSWW		SETOF			SWW#								2087		
BG27 TESTSWW		RCVS			SWW				006744	U		006245 6245			BE04
BG28		TMTS	1		#G1*				006749	9	1	050001 #0#J			#A01
BG 29		SETOF			SWX#								2088		
BG30		RCVS			SWX				006754	U		006260 6260			BE07
BG31		TMTS	1		#G1*				006759	9	1	050001 #0#J			#A01
BG 32		SETOF			SWY#								2089	133	
BG33		RCVS			SWY				006764	U		006275 6275			BE10
BG34		TMTS	1		#G1*				006769	9	1	050001 #0#J			#A01
BG 35		SETOF			SWZ#								2090		
BG36		RCVS			SWZ				006774	U		006290 6290			BE13
BG37		TMTS	1		#G1*				006779	9	1	050001 #0#J			#A01
BG 38		TR			RDSW20	TR TO START READING AGAIN			006784	1		006244 6244 2092			BE03
BG 39		TITLE			CHANNEL 20 READ PROGRAM								2201		
BG 40 CHAN20RD		SEL			2000				006789	2		00200 200 2202			
BG 41		TRR			RCVBLM20				006794	0	1	006849 68U9 2203			BH11

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BH 01	CMP2009	SET	01	1					COMPARE FOR LAST TAPE 2009	006799	B	1	000001 00#1	2204		
BH 02		LOD	01	#9#						006804	8	1	050379 #3XR	2205	A38	
BH 03		CMP	01	CHAN20RD						006809	4	1	006789 67Y9	2206	BG40	
BH 04		TRE		RESTORE20R						006814	L		006834 6834	2207	BH03	
BH 05		LOD	01	#1#						006819	8	1	050378 #3XQ	2208	A37	
BH 06		ADM	01	CHAN20RD					ADD 1 TO SELECT ADDRESS	006824	6	1	006789 67Y9	2209	134BG40	
BH 07		TR		CHAN20RD						006829	1		006789 6789	2210	BG40	
BH 08	RESTORE20R	LOD	01	#0#					RESTORE SEL ADD TO 2000	006834	8	1	050378 #3X#	2211	A36	
BH 09		UNL	01	CHAN20RD						006839	7	1	006789 67Y9	2212	BG40	
BH 10		TR		CHAN20RD						006844	1		006789 6789	2213	BG40	
BH 11	RCVBLM20	RCV		@30009					BLANK READ AREA	006849	U		030009 &009	2214		
BH 12		BLM		10						006854	\$		000010 0010	2215		
BH 13		RD		@30000						006859	Y		030000 &000	2216		
BH 14		LIP		2000						006864	15		002000 2&0	2217		
BH 15		SEL		I:CHAN20RD							1		51494	2218		
BH 16		EIA		CHAN20RD						006869	10		006789 6PQ9	2218	BG40	
BH 17		SEL		CHAN20RD						006874	2		006789 6789	2218	BG40	
BH 18		TSA		TTCEOFRD20						006879	0	3	006919 69A9	2219	BH26	
BH 19	RCVLNG20	RCVS		LNGEXIT20&1					CHECK LENGTH EVERY RECORD	006884	U		007516 7516	2220	135BK27	
BH 20		TSL		LENGTH20						006889	1	1	007359 73V9	2221	BJ33	
BH 21	SWHH	SWN		NOPCT20					TO TR IF LENGTH CHK WITH NO PCT	006894	A		006904 6904	2222	BH23	
BH 22		TR		CMP2009						006899	1		006799 6799	2223	BH01	
BH 23	NOPCT20	SEL		500						006904	2		000500 0500	2224		
BH 24		WR		*NO RD ERROR CHAN 20#*						006909	R		050145 #14N	2225	A24	
BH 25		TR		TEMP20&10						006914	1		007239 7239	2226	BJ03	
BH 26	TTCEOFRD20	TTC		TTCRD20						006919	0	2	006934 69L4	2227	BH30	
BH 27		TRS		SETSW220					TO EOF ROUTINE	006924	0		008369 8369	2228	B030	
BH 28		TR		RCVLNG20						006929	1		006884 6884	2229	BH19	
BH 29		TITLE		TTC ROUTINE CH 20										2231		
BH 30	TTCRD20	NOP		TMPPRD20-40						006934	A		022144 K144	2233	CU46	
BH 31		LDA	07	*-5						006939	*	7	006934 6ZC4	2234		
BH 32		ULA	07	ADMTMPRD20						006944	*	7	007159 7/E9	2235	136BI36	
BH 33		SET	01	1						006949	B	1	000001 00#1	2236		
BH 34		LOD	01	CHAN20RD					TO MODIFY ADM ADDRESS FOR TEMP.	006954	8	1	006789 67Y9	2237	BG40	
BH 35		UNL	01	SAVEADD20-1					READ CTR DEPENDING ON TAPE ADD	006959	7	1	006968 69W8	2238	BH37	
BH 36		TR		*&10						006964	1		006974 6974	2239		
BH 37	SAVEADD20	SGN		@0000						006969	T		000000 0000	2240		
BH 38		LDA	04	SAVEADD20						006974	*	4	006969 6Z69	2241	BH37	
BH 39		AAM	04	ADMTMPRD20						006979	@	4	007159 7/59	2242	BI36	
BH 40		TITLE		SETUP FOR 9 BACKSPACES										2243		
BH 41	RERDCTR20	RAD	09	*&000#					CASU 9 FOR CH 20	006984	H	9	050007 #-#P	2244	A04	
BH 42	ADD9	ADD	09	#&001#						006989	G	9	050010 #-/-	2245	A05	
BH 43		SST		SST20RDIN						006994	Y	3	022595 K515	2246	CV14	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- - -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BI 01		TSA			*65				006999	O	3	007004 7064	2247		
BI 02		SEL			I•CHAN20RD								2255	137	
BI 03		EIA			CHAN20RD				007004	,	10	006789 6PQ9	2255		BG40
BI 04		SEL			CHAN20RD				007009	2		006789 6789	2255		BG40
BI 05		BSP							007014	3		000004 0004	2256		
BI 06		LIP			2000				007019	,	15	002000 26&0	2257		
BI 07		SEL			I•CHAN20RD								2258		
BI 08		EIA			CHAN20RD				007024	,	10	006789 6PQ9	2258		BG40
BI 09		SEL			CHAN20RD				007029	2		006789 6789	2258		BG40
BI 10		RCV			@30004				007034	U		030004 6004	2259		
BI 11		BLM			802				007039	\$		000802 0802	2260		
BI 12		RD			@30000	REREAD ERROR TAPE			007044	Y		030000 6000	2261		
BI 13		LIP			2000				007049	,	15	002000 26&0	2262		
BI 14		SEL			I•CHAN20RD								2263		
BI 15		EIA			CHAN20RD				007054	,	10	006789 6PQ9	2263		BG40
BI 16		SEL			CHAN20RD				007059	2		006789 6789	2263		BG40
BI 17		TTC			MFY20				007064	O	2	007329 73K9	2264		138BJ26
BI 18		RCVS			NOERRB320W&1	MODIFY RD 03 COUNTERS			007069	U		002751 2751	2265		AN14
BI 19		TSI			ENTRD320RD				007074	1	1	002604 26#4	2266		AM31
BI 20		SET	04		4				007079	B	4	000004 0#04	2267		
BI 21		LOD	04		CHAN20RD				007084	8	4	006789 6X89	2268		BG40
BI 22		UNL	04		ERRSEL20				007089	7	4	020418 -U18	2269		CR41
BI 23		SET	04		5				007094	B	4	000005 0#05	2270		
BI 24		LOD	04		@30004				007099	8	4	030004 6#04	2271		
BI 25		UNL	04		TTCEMSG20				007104	7	4	020424 -U24	2272		CR42
BI 26		SET	04		2				007109	B	4	000002 0#02	2273		
BI 27		LOD	04		SST20RDIN-3				007114	8	4	022596 KV96	2274		CV14
BI 28		UNL	04		RD320				007119	7	4	020427 -U27	2275		CR43
BI 29		TAD			*615			63 7139 71C9	007124	I	4	007139 7139	2276		139
BI 30		SEL			500				007129	2		000500 0500	2277		
BI 31		TR			*610				007134	1		007144 7144	2278		
BI 32		SEL			400				007139	2		000400 0400	2279		
BI 33		WR			ERRSEL20				007144	R		020415 -415	2280		CR41
BI 34		SET	3		3				007149	B	3	000003 00&3	2281		
BI 35		LOD	3		#001#				007154	8	3	050384 #3HM	2282		DA40
BI 36	ADMTMPRD20	ADM	3		TMprd20-40				007159	6	3	022144 K1D4	2283		CU46
BI 37		SET	9		5				007164	B	9	000005 0-#5	2284		
BI 38		SET	5		5				007169	B	5	000005 0##5	2285A		
BI 39		LOD	5		#00001#				007174	8	5	050074 ##XM	2285B		DA16
BI 40		CMP	9		#00003#				007179	4	9	050079 #-XR	2285C		DA17
BI 41		TRE			*610				007184	L		007194 7194	2285D		140
BI 42		TRH			*615				007189	K		007204 7204	2285E		
BI 43		ADM	5		CORRTHREE				007194	6	5	023458 LUv8	2285F		CX10
BI 44		TR			*610				007199	1		007209 7209	2285G		
BI 45		ADM	5		CORRNINE				007204	6	5	023492 LUZ2	2285H		CX12
BI 46		RCVS			LNGEXIT20&1				007209	U		007516 7516	2286		BK27
BI 47		TSI			LENGTH20				007214	I	1	007359 73V9	2287		BK33

INDEX	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
gscanb 001440 TAG	SWN			TEMP20					007219	A		007229 7229 2288			BJ03
BJ 01 SWGG									007224	I		006799 6799 2289			BJ01
BJ 02	TR			CMP2009											
BJ 03 TEMP20	SEL			500					007229	2		000500 0500 2290			
BJ 04	WR			#CORRECTED RD ERROR#					007234	R		050809 #80R 2291			DA77
BJ 05	SET	04		4					007239	B	4	000004 0#04 2292			
BJ 06	LOD	04		CHAN20RD					007244	8	4	006789 6X89 2293	141BG40		
BJ 07	UNL	04		SAVESEL20					007249	7	4	023069 L#69 .2294		CV20	
BJ 08	SET	05		5					007254	B	5	000005 0#5 2295			
BJ 09	RCVS			SAVEREC20					007259	U		023075 L075 2296			CV22
BJ 10	TMTS	05		@30000					007264	9	5	030000 � 2297			
BJ 11	WR			#RECORD NO.#					007269	R		050477 #47P 2298			DA53
BJ 12	WR			SAVEREC20					007274	R		023075 L075 2299			CV22
BJ 13	WR			SAVESEL20					007279	R		023060 L060 2301			CV20
BJ 14	WR			# #					007284	R		050380 #38- 2302			DA39
BJ 15	SETOF			SWFF#											2303
BJ16	RCVS			SWFF					007289	U		007705 7705			BL23
BJ17	TMTS	1		#&1#					007294	9	1	050001 #0#J			DA01
BJ 18	SETOF			SWGG#											2304
BJ19	RCVS			SWGG					007299	U		007215 7215			BJ01
BJ20	TMTS	1		#&1#					007304	9	1	050001 #0#J	142DA01		
BJ 21	SETOF			SWHH#											2305
BJ22	RCVS			SWHH					007309	U		006890 6890			BH21
BJ23	TMTS	1		#&1#					007314	9	1	050001 #0#J			DA01
BJ 24	HLT			6789					007319	J		006789 6789 2306			
BJ 25	TR			CMP2009					007324	I		006799 6799 2307			BH01
BJ 26 MFY20	CMP	09		#009#					007329	4	9	050387 #LYP 2308			DA41
BJ 27	TRE			PERMERR20					007334	L		007624 7624 2309			BL05
BJ 28	TRH			IMPOSS20					007339	K		007349 7349 2310			BJ30
BJ 29	TR			ADD9					007344	I		006989 6989 2311			BH42
BJ 30 IMPOSS20	HLT			6996				EXCEEDED 9 BACKSPACES. PRESS START	007349	J		006996 6996 2312			
BJ 31	TR			PERMERR20				TO GO TO PERM ERROR ROUTINE	007354	I		007624 7624 2313			BL05
BJ 32	TITLE			LENGTH CHECK ROUTINE CHANNEL 20											2314
BJ 33 LENGTH20	SET	05		5					007359	B	5	000005 0#5 2315			
BJ 34	LOD	05		# #					007364	8	5	050054 #VM 2316	143DA12		
BJ 35	CMP	05		@30016				IF BLANK, NOISE RECORD	007369	4	5	030016 &/6 2317			
BJ 36	TRE			NOISE20					007374	L		007524 7524 2318			BK28
BJ 37	SEL			CHAN20RD											2319
BJ 38	EIA			CHAN20RD					007379	10		006789 6PQ9 2319			BG40
BJ 39	SEL			CHAN20RD					007384	2		006789 6789 2319			BG40
BJ 40 RD0320	SWN			*&10				SET TO TR WHEN RD 03 IS PERFORMED.	007389	A		007399 7399 2320			
BJ 41	RMA			RDTW020				RD 02 FOR LENGTH	007394	Y	2	023085 L0Q5 2321			CV24

ans-0145.pn

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BL 01		RCVS			SWHH						007609	U		006890	6890		BH21
BL 02		TMTS	1		#1#						007614	9	1	050378	#3XQ		DA37
BL 03		TR			LNGEXIT20						007619	1		007519	7519	2361	BK27
BL 04	PERMERR20	SETON			RD0320#											2362	
BL 05	PERMERR20	RCVS			RD0320						007624	U		007385	7385		BJ40
BL 06		TMTS	1		#1#						007629	9	1	050378	#3XQ		DA37
BL 07		SPC			2010						007634	,		002010	2010	2363	
BL 08		UFC			RDTW020						007639	,	3	023089	L0H9.	2364	CV24
BL 09		SEL			I+CHAN20RD											2365	
BL 10		EIA			CHAN20RD						007644	,	10	006789	6PQ9	2365	BG40
BL 11		SEL			CHAN20RD						007649	2		006789	6789	2365	BG40
BL 12		SST			SST20RDIN	RD 03					007654	Y	3	022595	K5I5	2366	CV14
BL 13		TSA			*&5						007659	O	3	007664	76F4	2367	
BL 14		SEL			500						007664	2		000500	0500	2368	148
BL 15		WR			#RD 03 DATA PERM ERR#*						007669	R		050205	#20N	2369	DA27
BL 16		SET	02		2						007674	B	2	000002	00-2	2375	
BL 17		LOD	C2		SST20RDIN-3						007679	8	2	022596	K5R6	2376	CV14
BL 18		UNL	02		SSTSAVE						007684	7	2	023401	L4-1	2377	CX06
BL 19		RCVS			SSTEXIT&1						007689	U		013721	T721	2378	CO42
BL 20		TSL			SSTENTRY						007694	1	1	013589	T5Y9	2379	CO15
BL 21		RCVS			LNGEXIT20&1						007699	U		007516	7516	2380	BK27
BL 22		TSL			LENGTH20						007704	1	1	007359	73V9	2381	BJ33
BL 23	SWFF	SWN			ERRLNG20						007709	A		008254	8254	2382	B001
BL 24		SET	05		4						007714	B	5	000004	0##4	2383	
BL 25		LOD	05		CHAN20RD						007719	8	5	006789	6XY9	2384	BG40
BL 26		UNL	05		SAVESEL20						007724	7	5	023069	L#W9	2385	149CV20
BL 27		SET	05		5						007729	B	5	000005	0##5	2386	
BL 28		LOD	05		@30004						007734	8	5	030004	G##4	2387	
BL 29		UNL	05		SAVEREC20						007739	7	5	023079	L#x9	2388	CV22
BL 30		SEL			500						007744	2		000500	0500	2389	
BL 31		WR			#PERM RD ERR#*						007749	R		050543	#54L	2390	DA59
BL 32		WR			SAVESEL20						007754	R		023060	L060	2391	CV20
BL 33		WR			#RECORD NO.##						007759	R		050477	#47P	2392	DA53
BL 34		WR			SAVEREC20						007764	R		023075	L075	2393	CV22
BL 35		SET	04		4						007769	B	4	000004	0#04	2394	
BL 36		LOD	04		@30012						007774	8	4	030012		2395	
BL 37		SUB	04		#&0005#						007779	P	4	050021	#X2J	2396	DA08
BL 38		SET	05		4						007784	B	5	000004	0##4	2397	150
BL 39		LOD	05		@30008						007789	8	5	030008	G##8	2398	
BL 40		UNL	05		LODCHAR20						007794	7	5	007819	7Y/9	2399	BL45
BL 41		SBN	A		LODCHAR20-1						007799	%	13	007818	7H/8	2401	BL45
BL 42		LDA	02		#0&005#						007804	#	2	050059	#ONR	2402	DA13
BL 43		ULA	02		CMP20						007809	*	2	007824	78K4	2403	BL46
BL 44		SET	01		1						007814	B	1	000001	00#1	2404	
BL 45	LODCHAR20	LOD	01		@9999						007819	8	1	009999	99Z9	2405	
BL 46	CMP20	CMP	01		@30005						007824	4	1	030005	G#5	2406	
BL 47		TMC			REDUNT20						007829	0	11	009334	8LC4	2407	B021
BL 48		TRE			CHAROK20						007834	L		007894	7894	2408	BM12

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BM 01		SEL			500					007839	2		000500 0500	2409		
BM 02		WR			#NOT EQUAL.	NO 901#*				007844	R		050828 #82Q	2410	151#A78	
BM 03		LDA	02		CMP20				TO WRITE LOCATIONS OF UNEQUAL	007849	#	2	007824 78K4	2411	BL46	
BM 04		SET	02		5				CHARACTERS. TO GET OUT OF THIS	007854	B	2	000005 00-5	2412		
BM 05		UNL	02		SAVECOMP20				ROUTINE. TR TO COMCOMPL20	007859	7	2	023109 L1-9	2413	CV28	
BM 06		WR			SAVECOMP20					007864	R		023105 L105	2414	CV28	
BM 07		LDA	02		LODCHAR20					007869	#	2	007819 78J9	2415	BL45	
BM 08		SET	02		5					007874	B	2	000005 00-5	2416		
BM 09		UNL	02		SAVEGOOD20					007879	7	2	023119 L1J9	2417	CV30	
BM 10		WR			SAVEGOOD20					007884	R		023115 L115	2418	CV30	
BM 11		WR			# D#					007889	R		050380 #38-	2419	DA39	
BM 12	CHAROK20	SUB	04		#&0001#					007894	P	4	050017 #1P	2420	DA07	
BM 13		TRZ	04		COMCOMPL20					007899	N	4	007929 7Z29	2421	BM19	
BM 14		LDA	05		#00001#					007904	#	5	050074 #XM	2422	152#A16	
BM 15		AAM	05		LODCHAR20				MODIFY COMPARE ADDRESSES	007909	@	5	007819 7Y/9	2423	BL45	
BM 16		AAM	05		CMP20					007914	@	5	007824 7YS4	2424	BL46	
BM 17		SET	01		1					007919	B	1	000001 00#1	2425		
BM 18		TR			LODCHAR20					007924	I		007819 7819	2426	BL45	
BM 19	COMCOMPL20	SEL			500					007929	2		000500 0500	2427		
BM 20		WR			TOTBADCHAR					007934	R		023405 L405	2428	CX08	
BM 21		SET	04		0					007939	B	4	000000 0#00	2429		
BM 22		SET	04		4					007944	B	4	000004 0#04	2430		
BM 23		UNL	04		TOTBADCHAR					007949	7	4	023424 LU24	2431	CX08	
BM 24	TRIPBSP20	SEL			I.CHAN20RD									2438		
BM 25	TRIPBSP20	EIA			CHAN20RD					007954	,	10	006789 6PQ9	2438	BG40	
BM 26		SEL			CHAN20RD					007959	2		006789 6789	2438	BG40	
BM 27		BSP								007964	3		000004 0004	2439	153	
BM 28		LIP			2000					007969	,	15	002000 2&60	2440		
BM 29		SEL			I.CHAN20RD									2441		
BM 30		EIA			CHAN20RD					007974	,	10	006789 6PQ9	2441	BG40	
BM 31		SEL			CHAN20RD					007979	2		006789 6789	2441	BG40	
BM 32		BSP								007984	3		000004 0004	2442		
BM 33		LIP			2000					007989	,	15	002000 2&60	2443		
BM 34		SEL			I.CHAN20RD									2444		
BM 35		EIA			CHAN20RD					007994	,	10	006789 6PQ9	2444	BG40	
BM 36		SEL			CHAN20RD					007999	2		006789 6789	2444	BG40	
BM 37		BSP								008004	3		000004 0004	2445		
BM 38		LIP			2000					008009	,	15	002000 2&60	2446		
BM 39		SEL			I.CHAN20RD									2447		
BM 40		EIA			CHAN20RD					008014	,	10	006789 6PQ9	2447	BG40	
BM 41		SEL			CHAN20RD					008019	2		006789 6789	2447	BG40	
BM 42		FSP								008024	Y	1	00#0	2448	154	
BM 43		LIP			2000					008029	,	15	002000 2&60	2449		
BM 44		SEL			I.CHAN20RD									2450		
BM 45		EIA			CHAN20RD					008034	,	10	006789 6PQ9	2450	BG40	
BM 46		SEL			CHAN20RD					008039	2		006789 6789	2470	BG40	
BM 47		TSA			*55					008044	O	3	002049 80D9	2471		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BN 01		FSP								008049	Y	1	00#0	2452			
BN 02		LIP			2000					008054	,	15	002000	2660	2453		
BN 03		SEL	I	CHAN20RD										2457			
BN 04		EIA		CHAN20RD						008059	,	10	006789	6PQ9	2457	BG40	
BN 05		SEL		CHAN20RD						008064	2		006789	6789	2457	BG40	
BN 06		TSA		*65						008069	O	3	008074	80G4	2458		
BN 07		RCV		@30004						008074	U		030004	6004	2459		
BN 08		BLM		802						008079	S		000802	0802	2460		
BN 09		RD		@30000						008084	Y	.	030000	6000	2461	155	
BN 10		LIP		2000						008089	,	15	002000	2660	2462		
BN 11		SEL	I	CHAN20RD										2463			
BN 12		EIA		CHAN20RD						008094	,	10	006789	6PQ9	2463	BG40	
BN 13		SEL		CHAN20RD						008099	2		006789	6789	2463	BG40	
BN 14		TTC		THREETRY20						008104	O	2	008164	8104	2464	BN26	
BN 15		SEL		500						008109	2		000500	0500	2465		
BN 16		WR		#OK CLEANER ROUTINE#						008114	R		050847	#84P	2466	DA79	
BN 17		SET	05	5						008119	B	5	000005	0#45	2467		
BN 18		LOD	05	SAVEREC20						008124	S	5	023079	L#x9	2468	CV22	
BN 19		CMP	05	@30004						008129	4	5	030004	6#4	2469		
BN 20		TRE		*615						008134	L		008149	8149	2470		
BN 21		WR		#BUT RECORD NUMBERS DO NOT COMPARE#						008139	R		051173	/17L	2471	DA92	
BN 22		WR		#REPOSITION TAPES#						008144	R		050792	#79K	2472	156DA76	
BN 23		WR		#RESET DRIVE TO DISCONTINUE#						008149	R		051048	/04Q	2472A	DA88	
BN 24		HLT		9559	INVESTIGATE					008154	J		009559	9559	2473		
BN 25		TR		CMP2009						008159	I		006799	6799	2474	BH01	
BN 26	THREETRY20	SEL		500						008164	2		000500	0500	2475		
BN 27		WR		#BAD ON CLEANER ROUTINE#						008169	R		050837	#88P	2476	DA81	
BN 28		SET	05	5						008174	B	5	000005	0#45	2477		
BN 29		LOD	05	SAVEREC20						008179	S	5	023079	L#x9	2478	CV22	
BN 30		CMP	05	@30004						008184	4	5	030004	6#4	2479		
BN 31		TRE		*610						008189	L		008199	8199	2480		
BN 32		WR		#AND RECORD NUMBERS DO NOT COMPARE#						008194	R		051139	/13R	2481	DA91	
BN 33		WR		#RESET DRIVE TO DISCONTINUE#						008199	R		051048	/04Q	2481A	DA88	
BN 34		TITLE		REPEAT PERM ERROR ROUTINE										2482A	157		
BN 35		SEL		500						008204	2		000500	0500	2482B		
BN 36		WR		#TO REPEAT ERROR ROUTINE TURN ON 912#						008209	R		051207	/20P	2482C	DA93	
BN 37		HLT		9229						008214	J		009229	9229	2482D		
BN 38		TAB		*610						008219	I	2	008229	82K9	2482E		
BN 39		TR		CMP2009						008224	I		006799	6799	2482F	BH01	
BN 40		SEL	I	CHAN20RD										2482G			
BN 41		EIA		CHAN20RD						008229	,	10	006789	6PQ9	2482G	BG40	
BN 42		SEL		CHAN20RD						008234	2		006789	6789	2482G	BG40	
BN 43		BSP								008239	3		000004	0004	2482H		
BN 44		LIP		2000						008244	,	15	002000	2&60	2482I		
BN 45		TR		CHAN20RD						008249	I		006789	6789	2482J	BG40	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BO 01	ERRLNG20	SEL			500				008254	2		000500 0500	2484		
BO 02		WR			#PERM ERR DUE TO INCORRECT LENGTH#				008259	R		051106 /100	2485	DA90	
BO 03		SET	04		4				008264	B	4	000004 0#04	2486	158	
BO 04		LOD	04		CHAN20RD				008269	8	4	006789 6X89	2487	BG40	
BO 05		UNL	04		SAVESEL20				008274	7	4	023069 L#69	2488	CV20	
BO 06		WR			SAVESEL20				008279	R		023060 L060	2489	CV20	
BO 07		SETOF			SWFF#								2490		
BO08		RCVS			SWFF				008284	U		007705 7705		BL23	
BO09		TMTS	1		#61#				008289	9	1	050001 #0#J		DA01	
BO 10		SETOF			SWGG#								2491		
BO11		RCVS			SWGG				008294	U		007215 7215		BJ01	
BO12		TMTS	1		#61#				008299	9	1	050001 #0#J		DA01	
BO 13		SETOF			SWHH#								2492		
BO14		RCVS			SWHH				008304	U		006890 6890		BH21	
BO15		TMTS	1		#61#				008309	9	1	050001 #0#J		DA01	
BO 16		SETOF			RD0320#								2493		
BO17		RCVS			RD0320				008314	U		007385 7385		BJ40	
BO18		TMTS	1		#61#				008319	9	1	050001 #0#J		DA01	
BO 19		HLT			8880	PRESS START TO READ NEXT TAPE			008324	J		008880 8880	2494	159	
BO 20		TR			CMP2009				008329	I		006799 6799	2495	BH01	
BO 21	REDUNT20	LDA	03		LODCHAR20				008334	#	3	007819 78A9	2496	BL45	
BO 22		ULA	03		RCVGOOD				008339	*	3	013744 TTD4	2497	CP01	
BO 23		LDA	03		CMP20				008344	#	3	007824 7884	2498	BL46	
BO 24		ULA	03		RCVBAD				008349	*	3	013854 T8E4	2499	CP23	
BO 25		RCVS			BITEXIT&1				008354	U		014121 U121	2501	CQ38	
BO 26		TSL			BITENTRY				008359	I	1	013729 T7S9	2502	C044	
BO 27		TR			CHAROK20				008364	I		007894 7894	2503	BM12	
BO 28		TITLE			END OF FILE ROUTINE CHANNEL 20								2503A		
BO 29	SETSW220	SETOF			EOF\$W220#								2504		
BO30	SETSW220	RCVS			EOF\$W220				008369	U		006310 6310		BE17	
BO31		TMTS	1		#61#				008374	9	1	050001 #0#J		DA01	
BO 32		SETON			SWW#								2505		
BO33		RCVS			SWW				008379	U		006245 6245		BE04	
BO34		TMTS	1		#1#				008384	9	1	050378 #3XQ		160DA37	
BO 35	RWD2000	SEL			2000				008389	2		00200# 200#	2506		
BO 36		TRR			I0F20				008394	O	1	008434 84T4	2507	BP01	
BO 37	CMPEND20	SET	01		1				008399	B	1	000001 0#01	2508		
BO 38		LOD	01		#9#				008404	B	1	050379 #3XR	2509	DA38	
BO 39		CMP	01		RWD2000				008409	4	1	008389 83Y9	2510	B035	
BO 40		TRE			END20				008414	L		008449 8449	2511	BP04	
BO 41		LOD	01		#1#				008419	8	1	050378 #3XQ	2512	DA37	
BO 42		ADM	01		RWD2000				008424	6	1	008389 83Y9	2513	B035	
BO 43		TR			RWD2000				008429	I		008389 8389	2514	B035	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BP 01	IOF20	IOF								008434	3		000000 0000	2515		
BP 02		RWD								008439	3		000002 0002	2516		
BP 03		TR			CMPEND20					008444	1		008399 8399	2517	1618037	
BP 04	END20	SET	1	1						008449	8	1	000001 00#1	2518		
BP 05		LOD	1	#0*						008454	8	1	050378 #3XQ	2518A	DA36	
BP 06		UNL	1	RWD2000						008459	7	1	008389 83Y9	2518B	BP035	
BP 07		LIP		2000						008464	15		002000 26&0	2518C		
BP 08		HLT		8888		LIP FAILED PRESS START				008469	J		008888 8888	2519		
BP 09		TR		**-10						008474	1		008464 8464	2520		
BP 10		TITLE			CHANNEL 21 READ PROGRAM									2601		
BP 11	CHAN21RD	SEL		2100						008479	2		002100 2100	2602		
BP 12		TRR		RCVBLM21						008484	0	1	008539 85T9	2603	BP23	
BP 13	CMP2109	SET	01	1		COMPARE FOR LAST TAPE 2109				008489	B	1	000001 00#1	2604		
BP 14		LOD	01	#9*						008494	8	1	050379 #3XR	2605	DA38	
BP 15		CMP	01	CHAN21RD						008499	4	1	008479 84x9	2606	BP11	
BP 16		TRE		RESTORE21R						008504	L		008524 8524	2607	1628P20	
BP 17		LOD	01	#1*						008509	8	1	050378 #3XQ	2608	DA37	
BP 18		ADM	01	CHAN21RD		ADD 1 TO SELECT ADDRESS				008514	6	1	008479 84x9	2609	BP11	
BP 19		TR		CHAN21RD						008519	1		008479 8479	2610	BP11	
BP 20	RESTORE21R	LOD	01	#0*		RESTORE SELECT ADDRESS TO 2100				008524	8	1	050377 #3XP	2611	DA36	
BP 21		UNL	01	CHAN21RD						008529	7	1	008479 84x9	2612	BP11	
BP 22		TR		CHAN21RD						008534	1		008479 8479	2613	BP11	
BP 23	RCVBLM21	RCV		@35004		BLANK READ AREA				008539	U		035004 E004	2614		
BP 24		BLM		10						008544	S		000010 0010	2615		
BP 25		RD		@35000						008549	Y		035000 E000	2616		
BP 26		LIP		2100						008554	15		002100 2A&0	2617		
BP 27		SEL		I,CHAN21RD							1		51784	2618		
BP 28		EIA		CHAN21RD						008559	10		008479 84P9	2618	BP11	
BP 29		SEL		CHAN21RD						008564	2		008479 8479	2618	1638P11	
BP 30		TSA		TTCEOFRD21						008569	0	3	008609 8669	2619	BP38	
BP 31	RCVLNG21	RCVS		LNGEXIT21&1		CHECK LENGTH EVERY RECORD				008574	U		009231 9231	2620	BS44	
BP 32		TSL		LENGTH21						008579	1	1	009049 90U9	2621	BS04	
BP 33	SWKK	SWN		NOPCT21		TO TR IF LENGTH CHK WITH NO PCT				008584	A		008594 8594	2622	BP35	
BP 34		TR		CMP2109						008589	1		008489 8489	2623	BP13	
BP 35	NOPCT21	SEL		500						008594	2		000500 0500	2624		
BP 36		WR		#NO RD ERROR CHAN 21#*						008599	R		050165 #16N	2625	DA25	
BP 37		TR		TEMP21&10						008604	1		008929 8929	2626	BR17	
BP 38	TTCEOFRD21	TTC		TTCRD21						008609	0	2	008624 86K4	2627	BP42	
BP 39		TRS		SETSW221		TO EOF ROUTINE				008614	0		010084 #084	2628	BX05	
BP 40		TR		RCVLNG21						008619	1		008574 8574	2629	BP31	
BP 41		TITLE			TTG ROUTINE CHANNEL 21									2630	164	
BP 42	TTCRD21	NOP			TMprd21-40					008624	A		022249 K249	2631	CV02	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BQ 01		LDA	07	*	-5					008629 *	7	008624	8WB4	2632		
BQ 02		ULA	07		ADMTPRD21					008634 *	7	008849	8YD9	2633	BR03	
BQ 03		SET	01		1					008639 B	1	000001	00#1	2634		
BQ 04		LOD	01		CHAN21RD				TO MODIFY ADM ADDRESS FOR TEMP	008644 8	1	008479	84X9	2635	BP11	
BQ 05		UNL	01		SAVEADD21-1				READ CTR DEPENDING ON TAPE ADD	008649 7	1	008658	86V8	2636	BQ07	
BQ 06		TR			*#610					008654 1		008664	8664	2637		
BQ 07	SAVEADD21	SGN			@0000					008659 T		000000	0000	2638		
BQ 08		LDA	04		SAVEADD21					008664 *	4	008659	8W59	2639	BQ07	
BQ 09		AAM	04		ADMTPRD21					008669 @	4	008849	8Y49	2640	BR03	
BQ 10		TITLE			SETUP FOR 9 BACKSPACES									2641		
BQ 11	RERDCTR21	RAD	10		#&000#				CASU 10 FOR CH 21	008674 H	10	050007	**-P	2642		
BQ 12	ADD10	ADD	10		#&001#					008679 G	10	050010	**-J-	2643	DA05	
BQ 13		SST			SST21RDIN					008684 Y	3	023175	L1G5	2644	165CW07	
BQ 14		TSA			*#65					008689 O	3	008694	86I4	2645		
BQ 15		SEL		I	CHAN21RD									2653		
BQ 16		EIA			CHAN21RD					008694 *	10	008479	8MP9	2653	BP11	
BQ 17		SEL			CHAN21RD					008699 2		008479	8479	2653	BP11	
BQ 18		BSP								008704 3		000004	0004	2654		
BQ 19		LIP			2100					008709 *	15	002100	2A&0	2655		
BQ 20		SEL		I	CHAN21RD									2656		
BQ 21		EIA			CHAN21RD					008714 *	10	008479	8MP9	2656	BP11	
BQ 22		SEL			CHAN21RD					008719 2		008479	8479	2656	BP11	
BQ 23		RCV			@35004					008724 U		035004	E004	2657		
BQ 24		BLM			802					008729 \$		000802	0802	2658		
BQ 25		RD			@35000				REREAD ERROR TAPE	008734 Y		035000	E000	2659		
BQ 26		LIP			2100					008739 *	15	002100	2A&0	2660		
BQ 27		SEL		I	CHAN21RD									2661	166	
BQ 28		EIA			CHAN21RD					008744 *	10	008479	8MP9	2661	BP11	
BQ 29		SEL			CHAN21RD					008749 2		008479	8479	2661	BP11	
BQ 30		TTC			MFY21					008754 0	2	009019	90J9	2662	BR40	
BQ 31		RCVS			NOERRB321W&1				MODIFY RD 03 COUNTERS	008759 U		003881	3881	2663	AS34	
BQ 32		TSL			ENTRD321RD					008764 1	1	003734	37T4	2664	AS04	
BQ 33		SET	04		4					008769 B	4	000004	0#04	2665		
BQ 34		LOD	04		CHAN21RD					008774 S	4	008479	8U79	2666	BP11	
BQ 35		UNL	04		ERRSEL21					008779 7	4	020993	-Z93	2667	CS37	
BQ 36		SET	04		5					008784 B	4	000005	0#05	2668		
BQ 37		LOD	04		@35004					008789 S	4	035004	E#04	2669		
BQ 38		UNL	04		TTCEMSG21					008794 7	4	020999	-Z99	2670	CS38	
BQ 39		SET	04		2					008799 B	4	000002	0#02	2671		
BQ 40		LOD	04		SST21RDIN=3					008804 B	4	023176	L/76	2672	167CW07	
BQ 41		UNL	04		RD321					008809 7	4	021002	J#02	2673	CS39	
BQ 42		TAD			*#15					008814 I	4	008829	8429	2674		
BQ 43		SEL			500					008819 2		000500	0500	2675		
BQ 44		TR			*#610					008824 1		008834	8934	2676		
BQ 45		SEL			400					008829 2		000400	0400	2677		
BQ 46		WR			ERRSEL21					008834 R		020990	-990	2678	CS37	

03 8829 88B9

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BR 01		SET	3	3						008839	B	3	000003	0063	2679		
BR 02		LOD	3		#001#					008844	B	3	050384	#3HM	2680	■A40	
BR 03	ADMTMPRD21	ADM	3		TMPRD21-40					008849	6	3	022249	K2D9	2681	CV02	
BR 04		SET	10	5						008854	B	10	000005	0--5	2682		
BR 05		SET	5	5						008859	B	5	000005	0#5	2683A		
BR 06		LOD	5		#00001#					008864	B	5	050074	##XM	2683B	168■A16	
BR 07		CMP	10		#00003#					008869	4	10	050079	#-PR	2683C	■A17	
BR 08		TRE			*&10					008874	L		008884	8884	2683D		
BR 09		TRH			*&15					008879	K		008894	8894	2683E		
BR 10		ADM	5		CORRTHREE					008884	6	5	023458	LUV8	2683F	CX10	
BR 11		TR			*&10					008889	1		008899	8899	2683G		
BR 12		ADM	5		CORRNINE					008894	6	5	023492	LUZZ	2683H	CX12	
BR 13		RCVS			LNGEXIT21&1					008899	U		009231	9231	2684	BS44	
BR 14		TSL			LENGTH21					008904	1	1	009049	90U9	2685	BS04	
BR 15	SWJJ	SWN			TEMP21					008909	A		008919	8919	2686	BR17	
BR 16		TR			CMP2109					008914	1		008489	8489	2687	BP13	
BR 17	TEMP21	SEL			500					008919	2		000500	0500	2688		
BR 18		WR			#CORRECTED RD ERROR#*					008924	R		050809	#80R	2689	169■A77	
BR 19		SET	04	4						008929	B	4	000004	0#4	2690		
BR 20		LOD	04		CHAN21RD					008934	8	4	008479	8U79	2691	BP11	
BR 21		UNL	04		SAVESEL21					008939	7	4	023194	L/94	2692	CW09	
BR 22		SET	05	5						008944	B	5	000005	0#5	2693		
BR 23		RCVS			SAVEREC21					008949	U		023200	L200	2694	CW11	
BR 24		TMTS	05		@35000					008954	9	5	035000	E##0	2695		
BR 25		WR			#RECORD NO.0#*					008959	R		050477	#47P	2696	■A53	
BR 26		WR			SAVEREC21					008964	R		023200	L200	2697	CW11	
BR 27		WR			SAVESEL21					008969	R		023185	L185	2698	CW09	
BR 28		WR			* 0#*					008974	R		050380	#38-	2699	■A39	
BR 29		SETOF			SWII#										2701		
BR30		RCVS			SWII					008979	U		009420	9420		BT42	
BR31		TMTS	1		#61#					008984	9	1	050001	#0#J		170■A01	
BR 32		SETOF			SWJJ#										2702		
BR33		RCVS			SWJJ					008989	U		008905	8905		BR15	
BR34		TMTS	1		#61#					008994	9	1	050001	#0#J		■A01	
BR 35		SETOF			SWKK#										2703		
BR36		RCVS			SWKK					008999	U		008580	8580		BP33	
BR37		TMTS	1		#61#					009004	9	1	050001	#0#J		■A01	
BR 38		HLT			6789					009009	J		006789	6789	2704		
BR 39		TR			CMP2109					009014	1		008489	8489	2705	BP13	
BR 40	MFY21	CMP	10		#009#					009019	4	10	050387	#LQP	2706	■A41	
BR 41		TRE			PERMERR21					009024	L		009339	9339	2707	BT24	
BR 42		TRH			IMPOSS21					009029	K		009039	9039	2708	BS01	
BR 43		TR			ADD10					009034	1		008679	8679	2709	■Q12	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
BS 01	IMPOSS21	HLT		9669	EXCEEDED 9 BACKSPACES-PRESS START				009039 J	009669 9669	2710
BS 02		TR		PERMERR21					009044 I	009339 9339	2711 171BT24
BS 03		TITLE		LENGTH CHECK ROUTINE CHANNEL 21							2712
BS 04	LENGTH21	SET	05	5					009049 B	5 000005 0#5	2713
BS 05		LOD	05	# #					009054 8	5 050054 #VM	2714 DA12
BS 06		CMP	05	@35016	IF BLANKS, NOISE RECORD				009059 4	5 035016 E#/6	2715
BS 07		TRE		NOISE21					009064 L	009239 9239	2716 BS45
BS 08		SEL	I	CHAN21RD							2717
BS 09		EIA		CHAN21RD					009069 10	008479 BMP9	2717 BP11
BS 10		SEL		CHAN21RD					009074 2	008479 8479	2717 BP11
BS 11	RD0321	SWN		*&10	SET TO TR WHEN RD 03 IS PERFORMED				009079 A	009089 9089	2718
BS 12		RMA		RDTW021	RD 02 FOR LENGTH				009084 Y 2	023210 L2J0	2719 CW13
BS 13		SETOF		RD0321#							2720
BS14		RCVS		RD0321					009089 U	009075 9075	BS11
BS15		TMTS	I	#&1#					009094 9 1	050001 #0#J	DA01
BS 16		SGN	1	RDTW021-3	REMOVE SIGN FROM RD 02 READING AND				009099 T 1	023211 L2/1	2721 CW13
BS 17		SET	05	1	SUBTRACT 5000 FROM IT				009104 B 5	000001 0#*1	2722 172
BS 18		LOD	05	RDTW021-3					009109 B 5	023211 LS/1	2723 CW13
BS 19		SUB	05	#&5#					009114 P 5	050002 ###K	2724 DA02
BS 20		UNL	05	RDTW021-3					009119 T 5	023211 LS/1	2725 CW13
BS 21		SET	04	4					009124 B 4	000004 0#04	2726
BS 22		LOD	04	RDTW021					009129 B 4	023214 LS14	2727 CW13
BS 23		CMP	04	@35012					009134 R 4	035012 E#12	2728
BS 24		TRE		CHKGM21					009139 L	009184 9184	2729 BS33
BS 25		SEL		500					009144 2	000500 0500	2730
BS 26		WR		#LENGTH CHK#*					009149 R	050466 #460	2731 DA52
BS 27		WR		RDTW021	WRITE RECORD LENGTH				009154 R	023210 L210	2732 CW13
BS 28		SET	04	4					009159 B 4	000004 0#04	2733
BS 29		RCVS		SAVELNGTH1&1					009164 U	023221 L221	2734 173CW15
BS 30		TMTS	04	@35009	WRITE WHAT LENGTH SHOULD BE				009169 9 4	035009 E#09	2735
BS 31		WR		SAVELNGTH1					009174 R	023220 L220	2736 CW15
BS 32		TR		SGNALL21					009179 1	009304 9304	2737 BT14
BS 33	CHKGM21	ADD	05	#&5#					009184 G 5	050002 ###K	2738 DA02
BS 34		UNL	05	RDTW021-3					009189 7 5	023211 LS/1	2739 CW13
BS 35		LOD	04	RDTW021					009194 8 4	023214 LS14	2740 CW13
BS 36		SUB	04	#&0001#					009199 P 4	0500017 #1P	2741 DA07
BS 37		UNL	04	RDTW021					009204 7 4	023214 LS14	2742 CW13
BS 38		ADM	01	RDTW021-3					009209 6 1	023211 L2/1	2743 CW13
BS 39		LOD	01	#0#					009214 8 1	050376 #3X0	2744 DA35
BS 40		CMP	01	I:RDTW021							2745
BS 41		EIA		RDTW021					009219 10	023214 LKJ4	2745 CW13
BS 42		CMP	01	RDTW021					009224 4 1	023214 L2/4	2745 174CW13
BS 43		TRE		SHORT21					009229 4	009274 9274	2746 BT07
BS 44	LNGEXIT21	TR		*-5					009234 1	009229 9229	2747
BS 45	NOISE21	SEL		500					009239 2	000500 0500	2748 8579

INDEX	AG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BT 01		WR			#NOISE RECORD#					009244	R	050567	#56P	2749		DA61	
BT 02		SET	04		4					009249	B	4	000004	0#04	2750		
BT 03		LOD	04		CHAN21RD					009254	B	4	008479	8U79	2751		BP11
BT 04		UNL	04		SAVESEL21					009259	T	4	023194	L/94	2752		CW09
BT 05		WR			SAVESEL21					009264	R	023185	L185	2753		CW09	
BT 06		TR			SGNALL21					009269	I	009304	9304	2754		BT14	
BT 07	SHORT21	SET	04		4					009274	B	4	000004	0#04	2755		
BT 08		RCVS			SAVELNGTH1&1					009279	U	023221	L221	2756		CW15	
BT 09		TMTS	04		@35009					009284	9	4	035009	E#09	2757	175	
BT 10		SEL			500					009289	2	000500	0500	2758			
BT 11		WR			#LENGTH CHK-SHORT 1 TO 4 CHAR#					009294	R	050305	#30N	2759		DA32	
BT 12		WR			SAVELNGTH1	WRITE WHAT LENGTH SHOULD BE.				009299	R	023220	L220	2760		CW15	
BT 13	SGNALL21	SETON			SWII#									2761			
BT14	SGNALL21	RCVS			SWII					009304	U	009420	9420			BT42	
BT15		TMTS	1		#1#					009309	9	1	050378	#3XQ			DA37
BT 16		SETON			SWJJ#									2762			
BT17		RCVS			SWJJ					009314	U	008905	8905			BR15	
BT18		TMTS	1		#1#					009319	9	1	050378	#3XQ			DA37
BT 19		SETON			SWKK#									2763			
BT20		RCVS			SWKK					009324	U	008580	8580			BP33	
BT21		TMTS	1		#1#					009329	9	1	050378	#3XQ			DA37
BT 22		TR			LNGEXIT21					009334	I	009234	9234	2764		BS44	
BT 23	PERMERR21	SETON			RD0321#									2765			
BT24	PERMERR21	RCVS			RD0321					009339	U	009075	9075			BS11	
BT25		TMTS	1		#1#					009344	9	1	050378	#3XQ	176	DA37	
BT 26		SPC			2110					009349	,	002110	2110	2766			
BT 27		UFC			RDTWO21					009354	,	3	023214	L2A4	2767		CW13
BT 28		SEL			I+CHAN21RD									2768			
BT 29		EIA			CHAN21RD					009359	,	10	008479	8MP9	2768		BP11
BT 30		SEL			CHAN21RD					009364	2		008479	8479	2768		BP11
BT 31		SST			SST21RDIN	RD 03				009369	Y	3	023175	L1G5	2769		CW07
BT 32		TSA			*65					009374	O	3	009379	93G9	2770		
BT 33		SEL			500					009379	2	000500	0500	2771			
BT 34		WR			#RD 03 DATA PERM ERRO#					009384	R	050205	#20N	2772		DA27	
BT 35		SET	02		2					009389	B	2	000002	00-2	2778		
BT 36		LOD	02		SST21RDIN-3					009394	B	2	023176	L1P6	2779		CW07
BT 37		UNL	02		SSTSOLVE					009399	T	2	023401	L4-1	2780		CX06
BT 38		RCVS			SSTEXIT&1					009404	U	013721	T721	2781	177	C042	
BT 39		TSL			SSTENTRY					009409	I	1	013589	T5Y9	2782		C015
BT 40		RCVS			LNGEXIT21&1					009414	U	009231	9231	2783		BS44	
BT 41		TSL			LENGTH21					009419	I	1	009049	90U9	2784		BS04
BT 42	SWII	SWN			ERRLNG21					009424	A	009969	9969	2785		BW19	
BT 43		SET	05		4					009429	B	5	000004	0#4	2786		
BT 44		LOD	05		CHAN21RD				TO IDENTIFY SEL ADD AND RECORD	009434	B	5	008479	8UX9	2787		BP11

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BU 01		UNL	05		SAVESEL21			NO. IN ERROR	009439	7	5	023194 L/Z4	2788		CW09
BU 02		SET	05		5				009444	B	5	000005 0#5	2789		
BU 03		LOD	05		@35004				009449	8	5	035004 E#4	2790		
BU 04		UNL	05		SAVEREC21				009454	7	5	023204 LS#4	2791		CW11
BU 05		SEL			500				009459	2		000500 0500	2792		
BU 06		WR			#PERM RD ERROR#				009464	R		050594 #59M	2793		178#A63
BU 07		WR			SAVESEL21				009469	R		023185 L185	2794		CW09
BU 08		WR			#RECORD NO.#				009474	R		050477 #47P	2795		DA53
BU 09		WR			SAVEREC21				009479	R		023200 L200	2796		CW11
BU 10		SET	04		4				009484	B	4	000004 0#4	2797		
BU 11		LOD	04		@35012			ACTUAL LENGTH OF RECORD	009489	B	4	035012 E#12	2798		
BU 12		SUB	04		#&0005#			COMPENSATE FOR RECORD NO.	009494	P	4	050021 #2J	2799		DA08
BU 13		SET	05		4				009499	B	5	000004 0##4	2801		
BU 14		LOD	05		@35008			LOAD INITIAL CMP LOC OF MASTER REC	009504	8	5	035008 E##8	2802		
BU 15		UNL	05		LODCHAR21				009509	7	5	009534 9VT4	2803		BU20
BU 16		SBN	A		LODCHAR21-1			SIGN IT FOR CASU 1	009514	%	13	009533 9ET3	2804		BU20
BU 17		LDA	02		#0E005#				009519	#	2	050064 #00M	2805		DA14
BU 18		ULA	02		CMP21				009524	*	2	009539 95L9	2806		179BU21
BU 19		SET	01		1				009529	B	1	000001 0#1	2807		
BU 20	LODCHAR21	LOD	01		@9999			GOOD CHAR	009534	B	1	009999 99Z9	2808		
BU 21	CMP21	CMP	01		@35005			BAD CHAR	009539	4	1	035005 E0#5	2809		
BU 22		TMC			REDUNT21				009544	O	11	010049 #-D9	2810		BW39
BU 23		TRE			CHAROK21				009549	L		009609 9609	2811		BU35
BU 24		SEL			500				009554	2		000500 0500	2812		
BU 25		WR			#NOT EQUAL NO 901#				009559	R		050775 #77N	2813		DA75
BU 26		LDA	02		CMP21			TO WRITE LOCATIONS OF UNEQUAL	009564	#	2	009539 95L9	2814		BU21
BU 27		SET	02		5			CHARACTERS. TO GET OUT OF THIS	009569	B	2	000005 00-5	2815		
BU 28		UNL	02		SAVECOMP21				009574	7	2	023234 L2L4	2816		CW17
BU 29		WR			SAVECOMP21				009579	R		023230 L230	2817		CW17
BU 30		LDA	02		LODCHAR21				009584	#	2	009534 95L4	2818		180BU20
BU 31		SET	02		5				009589	B	2	000005 00-5	2819		
BU 32		UNL	02		SAVEGOOD21				009594	7	2	023244 L2M4	2820		CW19
BU 33		WR			SAVEGOOD21				009599	R		023240 L240	2821		CW19
BU 34		WR			# #				009604	R		050380 #38-	2822		DA39
BU 35	CHAROK21	SUB	04		#&0001#				009609	P	4	050017 #1P	2823		DA07
BU 36		TRZ	04		COMCOMPL21				009614	N	4	009644 9W44	2824		BU42
BU 37		LDA	05		#00001#				009619	#	5	050074 #XM	2825		DA16
BU 38		AAM	05		LODCHAR21			MODIFY CMP ADDRESSES	009624	@	5	009534 9VT4	2826		BU20
BU 39		AAM	05		CMP21				009629	@	5	009539 9VT9	2827		BU21
BU 40		SET	01		1				009634	B	1	000001 0#1	2828		
BU 41		TR			LODCHAR21				009639	1		009534 9534	2829		BU20
BU 42	COMCOMPL21	SEL			500				009644	2		000500 0500	2830		181
BU 43		WR			TOTBADCHAR				009649	R		023405 L405	2831		CX08
BU 44		SET	04		0				009654	B	4	000000 0#00	2832		
BU 45		SET	04		4				009659	B	4	000004 0#04	2833		
BU 46		UNL	04		TOTBADCHAR				009664	7	4	023424 LU24	2834		CX08
BU 47	TRIPBSP21	SEL			ICHAN21RD									2841	
BU 48	TRIPBSP21	EIA			CHAN21RD				009669	,	10	008479 8MP9	2841		BP11
BU 49		SEL			CHAN21RD				009674	2		008479 8479	2841		BP11
BU 50		BSP							009679	3		000004 0004	2842		
BU 51		LIP			2100				009684	,	15	002100 2A&0	2843		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF	
BV 01		SEL		I•CHAN21RD							2844	
BV 02		EIA		CHAN21RD				009689	, 10	008479 8MP9	2844	BP11
BV 03		SEL		CHAN21RD				009694	2	008479 8479	2844	BP11
BV 04		BSP						009699	3	000004 0004	2845	
BV 05		LIP		2100				009704	, 15	002100 2A60	2846	182
BV 06		SEL		I•CHAN21RD							2847	
BV 07		EIA		CHAN21RD				009709	, 10	008479 8MP9	2847	BP11
BV 08		SEL		CHAN21RD				009714	2	008479 8479	2847	BP11
BV 09		BSP						009719	3	000004 0004	2848	
BV 10		LIP		2100				009724	, 15	002100 2A60	2849	
BV 11		SEL		I•CHAN21RD							2850	
BV 12		EIA		CHAN21RD				009729	, 10	008479 8MP9	2850	BP11
BV 13		SEL		CHAN21RD				009734	2	008479 8479	2850	BP11
BV 14		FSP						009739	Y 1	00#0	2851	
BV 15		LIP		2100				009744	, 15	002100 2A60	2852	
BV 16		SEL		I•CHAN21RD							2853	
BV 17		EIA		CHAN21RD				009749	, 10	008479 8MP9	2873	BP11
BV 18		SEL		CHAN21RD				009754	2	008479 8479	2853	BP11
BV 19		TSA		*65				009759	0 3	009764 97F4	2854	
BV 20		FSP						009764	Y 1	00#0	2855	183
BV 21		LIP		2100				009769	, 15	002100 2A60	2856	
BV 22		SEL		I•CHAN21RD							2860	
BV 23		EIA		CHAN21RD				009774	, 10	008479 8MP9	2860	BP11
BV 24		SEL		CHAN21RD				009779	2	008479 8479	2860	BP11
BV 25		TSA		*65				009784	0 3	009789 97H9	2861	
BV 26		RCV		@35004				009789	U	035004 E004	2862	
BV 27		BLM		802				009794	S	000802 0802	2863	
BV 28		RD		@35000				009799	Y	035000 E000	2864	
BV 29		LIP		2100				009804	, 15	002100 2A60	2865	
BV 30		SEL		I•CHAN21RD							2866	
BV 31		EIA		CHAN21RD				009809	, 10	008479 8MP9	2866	BP11
BV 32		SEL		CHAN21RD				009814	2	008479 8479	2866	BP11
BV 33		TTC		THREETRY21				009819	0 2	009879 98P9	2867	BV45
BV 34		SEL		500				009824	2	000500 0500	2868	184
BV 35		WR		#OK CLEANER ROUTINE#*				009829	R	050847 #84P	2869	mA79
BV 36		SET	05	5				009834	B 5	000005 0#5	2870	
BV 37		LOD	05	SAVEREC21				009839	B 5	023204 LS#4	2871	CW11
BV 38		CMP	05	@35004				009844	4 5	035004 E#4	2872	
BV 39		TRE		*615				009849	L	009864 9864	2873	
BV 40		WR		#BUT RECORD NUMBERS DO NOT COMPARE#				009854	R .	051173 /17L	2874	mA92
BV 41		WR		#REPOSITION TAPE#*				009859	R	050742 #74K	2875	mA73
BV 42		WR		#RESET DRIVE TO DISCONTINUED#				009864	R	051048 /04Q	2875A	mA88
BV 43		HLT		9559				009869	J	009559 9559	2876	
BV 44		TR		CMP2109				009874	I	008489 8489	2877	BP13
BV 45	THREETRY21	SEL		500				009879	2	000500 0500	2878	
BV 46		WR		#BAD ON CLEANER ROUTINE#*				009884	R	050887 #88P	2879	185mA81

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
BW 01		SET	05	5						009889	B	5	000005 0#*#5	2880			
BW 02		LOD	05		SAVEREC21					009894	8	5	023204 LS#4	2881	CW11		
BW 03		CMP	05		@35004					009899	4	5	035004 E#*#4	2882			
BW 04		TRE			*&10					009904	L	009914	9914	2883			
BW 05		WR			#AND RECORD NUMBERS DO NOT COMPARE#*					009909	R	051139	/13R	2884	DA91		
BW 06		WR			#RESET DRIVE TO DISCONTINUED#*					009914	R	051048	/04Q	2884A	DA88		
BW 07		TITLE			REPEAT PERM ERROR ROUTINE									2885			
BW 08		SEL			500					009919	2	000500	0500	2885A			
BW 09		WR			#TO REPEAT ERROR ROUTINE TURN ON 912#*					009924	R	051207	/20P	2885B	DA93		
BW 10		HLT			9229					009929	J	009229	9229	2885C			
BW 11		TAB			*&10					009934	I	2	009944	99M4	2885D		
BW 12		TR			CMP2109					009939	1	008489	8489	2885E	BP13		
BW 13		SEL			I+CHAN21RD									2885F	186		
BW 14		EIA			CHAN21RD					009944	*	10	008479	8MP9	2885F	BP11	
BW 15		SEL			CHAN21RD					009949	2	008479	8479	2885F	BP11		
BW 16		BSP								009954	3	000004	0004	2885G			
BW 17		LIP			2100					009959	*	15	002100	2A&0	2885H		
BW 18		TR			CHAN21RD					009964	1	008479	8479	2885I	BP11		
BW 19	ERRLNG21	SEL			500					009969	2	000500	0500	2887			
BW 20		WR			#PERM ERR DUE TO INCORRECT LENGTH#*					009974	R	051106	/100	2888	DA90		
BW 21		SET	04		4					009979	B	4	000004	0#04	2889		
BW 22		LOD	04		CHAN21RD					009984	8	4	008479	8U79	2890	BP11	
BW 23		UNL	04		SAVESEL21					009989	7	4	023194	L/94	2891	CW09	
BW 24		WR			SAVESEL21					009994	R	023185	L185	2892	CW09		
BW 25		SETOF			SWII#									2893			
BW26		RCVS			SWII					009999	U	009420	9420		BT42		
BW27		TMTS	1		#&1#					010004	9	1	050001	#0#J		187DA01	
BW 28		SETOF			SWJJ#									2894			
BW29		RCVS			SWJJ					010009	U	008905	8905		BR15		
BW30		TMTS	1		#&1#					010014	9	1	050001	#0#J	DA01		
BW 31		SETOF			SWKK#									2895			
BW32		RCVS			SWKK					010019	U	008580	8580		BP33		
BW33		TMTS	1		#&1#					010024	9	1	050001	#0#J	DA01		
BW 34		SETOF			RD0321									2896			
BW35		RCVS			RD0321					010029	U	009075	9075		BS11		
BW36		TMTS	1		#&1#					010034	9	1	050001	#0#J	DA01		
BW 37		HLT			8880		PRESS START TO READ NEXT TAPE			010039	J	008880	8880	2897			
BW 38		TR			CMP2109					010044	I	008489	8489	2898	BP13		
BW 39	REDUNT21	LDA	03		LODCHAR21					010049	*	3	009534	95C4	2899	BU20	
BW 40		ULA	03		RCVGOOD					010054	*	3	013744	T7D4	2901	CP01	
BW 41		LDA	03		CMP21					010059	*	3	009539	95C9	2902	BU21	
BW 42		ULA	03		RCVBAD					010064	*	3	013854	T8E4	2903	188CP23	
BW 43		RCVS			BITEXIT&1					010069	U	014121	U121	2904	CQ38		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BX 01		TSL			BITENTRY				010074	1	1	013729 T7S9 2905		C044	
BX 02		TR			CHAROK21				010079	1		009609 9609 2906		BU35	
BX 03		TITLE			END OF FILE ROUTINE CHANNEL 21								2907		
BX 04	SETSW221	SETOF			EOF\$W221#								2908		
BX05	SETSW221	RCVS			EOF\$W221				010084	U		006315 6315		BE18	
BX06		TMTS	1		#&1#				010089	9	1	050001 #0#J.		BA01	
BX 07		SETON			SWX#								2909		
BX08		RCVS			SWX				010094	U		006260 6260		BE07	
BX09		TMTS	1		#1#				010099	9	1	050378 #3XQ		BA37	
BX 10	RWD2100	SEL			2100				010104	2		002100 2100 2910			
BX 11		TRR			IOF21				010109	0	1	010149 #1U9 2911		BX19	
BX 12	CMPEND21	SET	01		1				010114	B	1	000001 00#1 2912			
BX 13		LOD	01		#9#				010119	8	1	050379 #3XR 2913		BA38	
BX 14		CMP	01		RWD2100				010124	4	1	010104 #1#4 2914	1898X10		
BX 15		TRE			END21				010129	L		010164 #164 2915		BX22	
BX 16		LOD	01		#1#				010134	8	1	050378 #3XQ 2916		BA37	
BX 17		ADM	01		RWD2100				010139	6	1	010104 #1#4 2917		BX10	
BX 18		TR			RWD2100				010144	I		010104 #104 2918		BX10	
BX 19	IOF21	IOF													
BX 20		RWD							010149	3		000000 0000 2919			
BX 21		TR			CMPEND21				010154	3		000002 0002 2920			
BX 22	END21	SET	1		1				010159	1		010114 #114 2921		BX12	
BX 23		LOD	1		#0#										
BX 24		UNL	1		RWD2100				010164	B	1	000001 00#1 2922			
BX 25		LIP			2100				010169	8	1	050377 #3XP 2922A		BA36	
BX 26		HLT			8888		LIP FAILED-PRESS START		010174	7	1	010104 #1#4 2922B		BX10	
BX 27		TR			*-10				010179	15		002100 2A&0 2922C			
BX 28		TITLE			CHANNEL 22 READ PROGRAM				010184	J		008888 8888 2923	190		
BX 29	CHAN22RD	SEL			2200								3001		
BX 30		TRR			RCVBLM22				010194	2		002200 2200 3002			
BX 31	CMP2209	SET	01		1		COMPARE FOR LAST TAPE 2209		010199	0	1	010254 #2V4 3003		BX41	
BX 32		LOD	01		#9#				010204	8	1	000001 00#1 3004			
BX 33		CMP	01		CHAN22RD				010209	8	1	050379 #3XR 3005		BA38	
BX 34		TRE			RESTORE22R				010214	4	1	010194 #1Z4 3006		BX29	
BX 35		LOD	01		#1#				010219	L		010239 #239 3007		BX38	
BX 36		ADM	01		CHAN22RD		ADD 1 TO SELECT ADDRESS		010224	8	1	050378 #3XQ 3008		BA37	
BX 37		TR			CHAN22RD				010229	6	1	010194 #1Z4 3009		BX29	
BX 38	RESTORE22R	LOD	01		#0#		RESTORE SELECT ADDRESS TO 2200		010234	1		010194 #194 3010		BX29	
BX 39		UNL	01		CHAN22RD				010239	8	1	050377 #3XP 3011		BA36	
BX 40		TR			CHAN22RD				010244	7	1	010194 #1Z4 3012	191BX29		
BX 41	RCVBLM22	RCV			€40004				010249	1		010194 #194 3013		BX29	
BX 42		BLM			10										
BX 43		RD			€40000				010254	U		040004 000M 3014			
								010259	S		000010 0010 3015				
								010264	Y		040000 000- 3016				

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
BY 01		LIP		2200			010269	*	15 002200 2860 3017	
BY 02		SEL	I	CHAN22RD			1	52074		3018
BY 03		EIA		CHAN22RD			010274	10	010194 #JR4	3018
BY 04		SEL		CHAN22RD			010279	2	010194 #194	3018 BX29
BY 05		TSA		TTCEOFRD22			010284	0	3 010324 #3B4	3019 BY13
BY 06	RCVLNG22	RCVS		LNGEXIT22&1	CHECK LENGTH EVERY RECORD		010289	U	010911 #911	3020 CB11
BY 07		TSL		LENGTH22			010294	I	1 010764 #7W4	3021 CA20
BY 08	SWNN	SWN		NOPCT22	TO TR IF LENGTH CHK WITH NO PCT		010299	A	010309 #309	3022 BY10
BY 09		TR		CMP2209			010304	1	010204 #204	3023 192BX31
BY 10	NOPCT22	SEL		500			010309	2	000500 0500	3024
BY 11		WR		#NO RD ERROR CHAN 22#			010314	R	050185 #18N	3025 BA26
BY 12		TR		TEMP22G10			010319	I	010644 #644	3026 BZ37
BY 13	TTCEOFRD22	TTC		TTCRD22			010324	O	2 010339 #3L9	3027 BY17
BY 14		TRS		SETSW222	TO EOF ROUTINE		010329	O	011764 /764	3028 CF17
BY 15		TR		RCVLNG22			010334	I	010289 #289	3029 BY06
BY 16		TITLE		TTC ROUTINE CHANNEL 22						3030
BY 17	TTCRD22	NOP		TMPPRD22-40			010339	A	022354 K354	3031 CV05
BY 18		LDA	07	*-5			010344	*	7 010339 #TC9	3032
BY 19		ULA	07	ADMTPRDRD22			010349	*	7 010564 #VF4	3033 BZ23
BY 20		SET	01	1			010354	B	1 000001 00#1	3034
BY 21		LOD	01	CHAN22RD	TO MODIFY ADM ADDRESS FOR TEMP		010359	8	1 010194 #1Z4	3035 BX29
BY 22		UNL	01	SAVEADD22-1	READ CTR DEPENDING ON TAPE ADD		010364	7	1 010373 #3X3	3036 193BY24
BY 23		TR		*&10			010369	I	010379 #379	3037
BY 24	SAVEADD22	SGN		@0000			010374	T	000000 0000	3038
BY 25		LDA	04	SAVEADD22			010379	#	4 010374 #T74	3039 BY24
BY 26		AAM	04	ADMTPRDRD22			010384	@	4 010564 #V64	3040 BZ23
BY 27		TITLE		SETUP FOR 9 BACKSPACES						3041
BY 28	RERDCTR22	RAD	11	#6000#			010389	H	11 050007 #-&P	3042 BA04
BY 29	ADD11	ADD	11	#6001#			010394	G	11 050010 #-A-	3043 BA05
BY 30		SST		SST22RDIN			010399	Y	3 023250 L2E0	3044 CW23
BY 31		TSA		*65			010404	O	3 010409 #4&9	3045
BY 32		SEL	I	CHAN22RD						3053
BY 33		EIA		CHAN22RD			010409	*	10 010194 #JR4	3053 BX29
BY 34		SEL		CHAN22RD			010414	2	010194 #194	3073 BX29
BY 35		BSP					010419	3	000004 0004	3054
BY 36		LIP		2200			010424	*	15 002200 2860	3055 194
BY 37		SEL	I	CHAN22RD						3056
BY 38		EIA		CHAN22RD			010429	*	10 010194 #JR4	3056 BX29
BY 39		SEL		CHAN22RD			010434	2	010194 #194	3056 BX29
BY 40		RCV		@40004			010439	U	040004 000M	3057
BY 41		BLM		802			010444	\$	000802 0802	3058
BY 42		RD		@40000	REREAD ERROR TAPE		010449	Y	040000 000-	3059
BY 43		LIP		2200			010454	*	15 002200 2860	3060

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BZ 01		SEL		I	CHAN22RD									3061		
BZ 02		EIA			CHAN22RD					010459	*	10	010194	#JR4	3061	BX29
BZ 03		SEL			CHAN22RD					010464	2		010194	#194	3061	BX29
BZ 04		TTC			MFY22					010469	0	2	010734	#7L4	3062	CA13
BZ 05		RCVS			NOERRB322W&1	MODIFY RD 03 COUNTERS				010474	U		005011	5011	3063	AY06
BZ 06		TSL			ENTRD322RD					010479	1	1	004864	48W4	3064	AX23
BZ 07		SET	04		4					010484	B	4	000004	0#04	3065	195
BZ 08		LOD	04		CHAN22RD					010489	8	4	010194	#/94	3066	BX29
BZ 09		UNL	04		ERRSEL22					010494	7	4	021468	JU68	3067	CT30
BZ 10		SET	04		5					010499	B	4	000005	0#05	3068	
BZ 11		LOD	04		@40004					010504	8	4	040004	0#0M	3069	
BZ 12		UNL	04		TTCEMSG22					010509	7	4	021474	JU74	3070	CT31
BZ 13		SET	04		2					010514	B	4	000002	0#02	3071	
BZ 14		LOD	04		SST22RDIN-3					010519	8	4	023251	LS51	3072	CW23
BZ 15		UNL	04		RD322					010524	7	4	021477	JU77	3073	CT32
BZ 16		TAD			*&15					010529	I	→	010544	#44	3074	
BZ 17		SEL			500					010534	2		000500	0500	3075	
BZ 18		TR			*&10					010539	1		010549	#549	3076	
BZ 19		SEL			400					010544	2		000400	0400	3077	196
BZ 20		WR			ERRSEL22					010549	R		021465	J465	3078	CT30
BZ 21		SET	3		3					010554	B	3	000003	0063	3079	
BZ 22		LOD	3		#001*					010559	8	3	050384	#3HM	3080	DA40
BZ 23	ADMTPRD22	ADM	3		TMprd22-40					010564	6	3	022354	K3E4	3081	CW05
BZ 24		SET	11		5					010569	B	11	000005	0-65	3082	
BZ 25		SET	5		5					010574	B	5	000005	0#*5	3083A	
BZ 26		LOD	5		#00001*					010579	8	5	050074	##XM	3083B	DA16
BZ 27		CMP	11		#00003*					010584	4	11	050079	#-GR	3083C	DA17
BZ 28		TRE			*&10					010589	L		010599	#599	3083D	
BZ 29		TRH			*&15					010594	K		010609	#609	3083E	
BZ 30		ADM	5		CORRTHREE					010599	6	5	023458	LUV8	3083F	CX10
BZ 31		TR			*&10					010604	1		010614	#614	3083G	197
BZ 32		ADM	5		CORRNINE					010609	6	5	023492	LUZ2	3083H	CX12
BZ 33		RCVS			LNGEXIT22&1					010614	U		010911	#911	3084	CB11
BZ 34		TSL			LENGTH22					010619	1	1	010764	#7W4	3085	CA20
BZ 35	SWMM	SWN			TEMP22					010624	A		010634	#634	3086	BZ37
BZ 36		TR			CMP2209					010629	1		010204	#204	3087	BX31
BZ 37	TEMP22	SEL			500					010634	2		000500	0500	3088	
BZ 38		WR			#CORRECTED RD ERROR#*					010639	R		050809	#80R	3089	DA77
BZ 39		SET	04		4					010644	B	4	000004	C#04	3090	
BZ 40		LOD	04		CHAN22RD					010649	8	4	010194	#/94	3091	BX29
BZ 41		UNL	04		SAVESEL22					010654	7	4	023269	LS69	3092	CW25
BZ 42		SET	05		5					010659	B	5	000005	0#*5	3093	
BZ 43		RCVS			SAVEREC22					010664	U		023275	L275	3094	198CW27
BZ 44		TMTS	05		@40000					010669	9	5	040000	0**-	3095	
BZ 45		WR			#RECORD NO.**#					010674	R		050477	#47P	3096	DA53
BZ 46		WR			SAVEREC22					010679	R		023275	L275	3097	CW27
BZ 47		WR			SAVESEL22					010684	R		023260	L260	3098	CW25

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CA 01		WR			# 0#					010689 R	050380 #38-	3099		DA39		
CA 02		SETOF			SWLLD									3101		
CA 03		RCVS			SWLL					010694 U	011100 /100			CC10		
CA 04		TMTS	1		#&1#					010699 9	1 050001 #0#J			DA01		
CA 05		SETOF			SWMM0									3102		
CA 06		RCVS			SWMM					010704 U	010620 #620			BZ35		
CA 07		TMTS	1		#&1#					010709 9	1 050001 #0#J			DA01		
CA 08		SETOF			SWNN0									3103		
CA 09		RCVS			SWNN					010714 U	010295 #295			BY08		
CA 10		TMTS	1		#&1#					010719 9	1 050001 #0#J			DA01		
CA 11		HLT			6789					010724 J	006789 6789 3104	199				
CA 12		TR			CMP2209					010729 1	010204 #204	3105		BX31		
CA 13	MFY22	CMP	11		#009#					010734 4 11	050387 #LHP	3106		DA41		
CA 14		TRE			PERMERR22					010739 L	011019 /019	3107		CB36		
CA 15		TRH			IMPOSS22					010744 K	010754 #754	3108		CA17		
CA 16		TR			ADD11					010749 1	010394 #394	3109		BY29		
CA 17	IMPOSS22	HLT			9669				EXCEEDED 9 BACKSPACES-PRESS START	010754 J	009669 9669	3110				
CA 18		TR			PERMERR22				TO GO TO PERM ERROR ROUTINE	010759 1	011019 /019	3111		CB36		
CA 19		TITLE			LENGTH CHECK ROUTINE CHANNEL 22									3112		
CA 20	LENGTH22	SET	05		5					010764 B	5 000005 0#*5	3113				
CA 21		LOD	05	#	#					010769 8	5 050054 #*VM	3114		DA12		
CA 22		CMP	05	@40016					IF BLANKS, NOISE RECORD	010774 4	5 040016 0#/0	3115				
CA 23		TRE			NOISE22					010779 L	010919 #919	3116		CB12		
CA 24		SEL	I	CHAN22RD										3117	200	
CA 25		EIA			CHAN22RD					010784 10	010194 #JR4	3117		BX29		
CA 26		SEL			CHAN22RD					010789 2	010194 #194	3117		BX29		
CA 27	RD0322	SWN		*&10					SET TO TR WHEN RD 03 IS PERFORMED	010794 A	010804 #804	3118				
CA 28		RMA			RDTW022				RD 02 FOR LENGTH	010799 Y	2 023285 L2Q5	3119		CW29		
CA 29		SETOF			RD0322#									3120		
CA 30		RCVS			RD0322					010804 U	010790 #790			CA27		
CA 31		TMTS	1		#&1#					010809 9	1 050001 #0#J			DA01		
CA 32		SGN	01		RDTW022					010814 T	1 023289 L2Y9	3121		CW29		
CA 33		SET	04		4					010819 B	4 000004 0#04	3122				
CA 34		LOD	04		RDTW022					010824 8	4 023289 LS89	3123		CW29		
CA 35		CMP	04	@40012						010829 4	4 040012 0#1K	3124				
CA 36		TRE			CHKGM22					010834 L	010879 #879	3125		CB03		
CA 37		SEL			500					010839 2	000500 0500	3126				
CA 38		WR			#LENGTH CHK#*					010844 R	050466 #460	3127	201	DA52		
CA 39		WR			RDTW022				WRITE RECORD LENGTH	010849 R	023285 L285	3128		CW29		
CA 40		SET	04		4					010854 B	4 000004 0#04	3129				
CA 41		RCVS			SAVELNGTH2&1					010859 U	023296 L296	3130		CW31		
CA 42		TMTS	04		@40009					010864 9	4 040009 0#0R	3131				

INDEX	OP	NU AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
CB 01	WR		SAVELNGTH2			WRITE WHAT LENGTH SHOULD BE	010869	R	023295 L295 3132	CW31
CB 02	TR		SGNALL22				010874	1	010984 #984 3133	CW26
CB 03	CHKGM22	SUB	04	#&0001#			010879	P 4	050017 ##1P 3134	DA07
CB 04		UNL	04	RDTW022			010884	7 4	023289 LS89 3135	CW29
CB 05		ADM	01	RDTW022			010889	6 1	023289 L2Y9 3136	CW29
CB 06		LOD	01	#口#			010894	8 1	050376 #3X0 3137	DA35
CB 07		CMP	01	I+RDTW022					3138	
CB 08		EIA		RDTW022			010899	, 10	023289 LKQ9 3138	CW29
CB 09		CMP	01	RDTW022			010904	4 1	023289 L2Y9 3138	202CW29
CB 10		TRE		SHORT22			010909	L	010954 #954 3139	CB19
CB 11	LNGEXIT22	TR		*-5			010914	1	010909 #909 3140	
CB 12	NOISE22	SEL		500			010919	2	000500 0500 3141	
CB 13		WR		#NOISE RECORD#			010924	R	050567 #56P 3142	DA61
CB 14		SET	04	4			010929	B 4	000004 0#04 3143	
CB 15		LOD	04	CHAN22RD			010934	8 4	010194 #/94 3144	BX29
CB 16		UNL	04	SAVESEL22			010939	7 4	023269 LS69 3145	CW25
CB 17		WR		SAVESEL22			010944	R	023260 L260 3146	CW25
CB 18		TR		SGNALL22			010949	1	010984 #984 3147	CW26
CB 19	SHORT22	SET	04	4			010954	B 4	000004 0#04 3148	
CB 20		RCVS		SAVELNGTH2&1			010959	U	023296 L296 3149	CW31
CB 21		TMTS	04	@40009			010964	9 4	040009 0#0R 3150	203
CB 22		SEL		500			010969	2	000500 0500 3151	
CB 23		WR		#LENGTH CHK-SHORT 1 TO 4 CHAR#			010974	R	050305 #30N 3152	DA32
CB 24		WR		SAVELNGTH2	WRITE WHAT LENGTH SHOULD BE		010979	R	023295 L295 3153	CW31
CB 25	SGNALL22	SETON		SWLL#					3154	
CB26	SGNALL22	RCVS		SWLL			010984	U	011100 /100	CC10
CB27		TMTS	1	#1#			010989	9 1	050378 #3XQ	DA37
CB 28		SETON		SWMM#					3155	
CB29		RCVS		SWMM			010994	U	010620 #620	BZ35
CB30		TMTS	1	#1#			010999	9 1	050378 #3XQ	DA37
CB 31		SETON		SWNN#					3156	
CB32		RCVS		SWNN			011004	U	010295 #295	BY08
CB33		TMTS	1	#1#			011009	9 1	050378 #3XQ	DA37
CB 34		TR		LNGEXIT22			011014	1	010914 #914 3157	CB11
CB 35	PERMERR22	SETON		RD0322#					3158	
CB36	PERMERR22	RCVS		RD0322			011019	U	010790 #790	CA27
CB37		TMTS	1	#1#			011024	9 1	050378 #3XQ	204DA37
CB 38		SPC		2210			011029	, 002210 2210 3159		
CB 39		UFC		RDTW022			011034	, 3 023289 L2H9 3160	CW29	
CB 40		SEL		I+CHAN22RD					3161	
CB 41		EIA		CHAN22RD			011039	, 10 010194 #JR4 3161	BX29	
CB 42		SEL		CHAN22RD			011044	2 010194 #194 3161	BX29	
CB 43		SST		SST22RDIN			011049	Y 3 023250 L2E0 3162	CW23	
CB 44		TSA		*65			011054	O 3 011059 /OE9 3163		
					RD 03					

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CC 01		SEL			500					011059	2		000500 0500	3164		
CC 02		WR			#RD 03 DATA PERM ERRO#					011064	R		050205 #20N	3165		DA27
CC 03		SET	02		2					011069	B	2	000002 00-2	3171		
CC 04		LOD	02		SST22RDIN-3					011074	8	2	023251 L2N1	3172		CW23
CC 05		UNL	02		SSTSOLVE					011079	7	2	023401 L4-1	3173		CX06
CC 06		RCVS			SSTEXIT&1					011084	U		013721 T721	3174	205C042	
CC 07		TSL			SSTENTRY					011089	1	1	013589 T5Y9	3175		CO15
CC 08		RCVS			LNGEXIT22&1					011094	U		010911 #911.	3176		CB11
CC 09		TSL			LENGTH22					011099	1	1	010764 #7W4	3177		CA20
CC 10	SWLL	SWN			ERRLNG22					011104	A		011649 /649	3178		CE33
CC 11		SET	05	4						011109	B	5	000004 0#4	3179		
CC 12		LOD	05		CHAN22RD				TO IDENTIFY SEL ADD AND RECORD NO.	011114	8	5	010194 #/Z4	3180		BX29
CC 13		UNL	05		SAVESEL22				IN ERROR	011119	7	5	023269 LSW9	3181		CW25
CC 14		SET	05	5						011124	B	5	000005 0#5	3182		
CC 15		LOD	05	@40004						011129	8	5	040004 0#M	3183		
CC 16		UNL	05		SAVEREC22					011134	7	5	023279 LSX9	3184		CW27
CC 17		SEL			500					011139	2		000500 0500	3185		
CC 18		WR			#PERM RD ERRO#					011144	R		050543 #54L	3186	206	DA59
CC 19		WR			SAVESEL22					011149	R		023260 L260	3187		CW25
CC 20		WR			#RECORD NO.0#					011154	R		050477 #47P	3188		DA53
CC 21		WR			SAVEREC22					011159	R		023275 L275	3189		CW27
CC 22		SET	04	4						011164	B	4	000004 0#4	3190		
CC 23		LOD	04	@40012					ACTUAL LENGTH OF RECORD	011169	8	4	040012 0#1K	3191		
CC 24		SUB	04	#&0005*					COMPENSATE FOR RECORD NO.	011174	P	4	050021 ##2J	3192		DA08
CC 25		SET	05	4						011179	B	5	000004 0#4	3193		
CC 26		LOD	05	@40008					LOD INITIAL CMP LOC OF MASTER REC	011184	8	5	040008 0#Q	3194		
CC 27		UNL	05		LODCHAR22					011189	7	5	011214 /S/4	3195		CC32
CC 28		SBN	A		LODCHAR22-1				SIGN IT FOR CASU 1	011194	%	13	011213 /B/3	3196		CC32
CC 29		LDA	02		#0000N#					011199	*	2	050069 #00R	3197		DA15
CC 30		ULA	02		CMP22					011204	*	2	011219 /2J9	3198	207	CC03
CC 31		SET	01	1						011209	B	1	000001 0#1	3199		
CC 32	LODCHAR22	LOD	01	@9999					GOOD CHAR	011214	8	1	009999 99Z9	3201		
CC 33	CMP22	CMP	01	@40005					BAD CHAR	011219	4	1	040005 00#N	3202		
CC 34		TMC			REDUNT22					011224	O	11	011729 /PB9	3203		CF08
CC 35		TRE			CHAROK22					011229	L		011289 /289	3204		CC47
CC 36		SEL			500					011234	2		000500 0500	3205		
CC 37		WR			#NOT EQUAL NO 901#					011239	R		050775 #77N	3206		DA75
CC 38		LDA	02		CMP22				TO WRITE LOCATIONS OF UNEQUAL	011244	*	2	011219 /2J9	3207		CC33
CC 39		SET	02	5					CHARACTERS. TO GET OUT OF THIS	011249	B	2	000005 00-5	3208		
CC 40		UNL	02		SAVECOMP22					011254	7	2	023309 L3-9	3209		CW33
CC 41		WR			SAVECOMP22					011259	R		023305 L305	3210		CW33
CC 42		LDA	02		LODCHAR22					011264	*	2	011214 /2J4	3211	208	CC32
CC 43		SET	02	5						011269	B	2	000005 00-5	3212		
CC 44		UNL	02		SAVEGOOD22					011274	7	2	023319 L3J9	3213		CW35
CC 45		WR			SAVEGOOD22					011279	R		023315 L315	3214		CW35
CC 46		WR			# 0#					011284	R		050380 #38-	3215		DA39
CC 47	CHAROK22	SUB	04		#&0001#					011289	P	4	050017 ##1P	3216		DA07
CC 48		TRZ	04		COMCMPL22					011294	N	4	011324 /T24	3217		CD04
CC 49		LDA	05		#0001#					011299	*	5	050074 ##XM	3218		DA16
CC 50		AAM	05		LODCHAR22				MODIFY CMP ADDRESSES	011304	@	5	011214 /S/4	3219		CC32

INDEX	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CD 01	AAM	05		CMP22			011309	@	5	011219 /S/9	3220		CC33
CD 02	SET	01		1			011314	B	1	000001 00#1	3221		
CD 03	TR			LODCHAR22			011319	I		011214 /214	3222		CC32
CD 04	COMCOMPL22	SEL		500			011324	2		000500 0500	3223	209	
CD 05	WR			TOTBADCHAR			011329	R		023405 L405	3224		CX08
CD 06	SET	04		0			011334	B	4	000000 0#00	3225		
CD 07	SET	04		4			011339	B	4	000004 0#04	3226		
CD 08	UNL	04		TOTBADCHAR			011344	7	4	023424 LU24	3227		CX08
CD 09	TRIPBSP22	SEL		I+CHAN22RD								3234	
CD 10	TRIPBSP22	EIA		CHAN22RD			011349	,	10	010194 #JR4	3234		BX29
CD 11	SEL			CHAN22RD			011354	2		010194 #194	3234		BX29
CD 12	BSP						011359	3		000004 0004	3235		
CD 13	LIP			2200			011364	,	15	002200 2B&0	3236		
CD 14	SEL			I+CHAN22RD								3237	
CD 15	EIA			CHAN22RD			011369	,	10	010194 #JR4	3237		BX29
CD 16	SEL			CHAN22RD			011374	2		010194 #194	3237		BX29
CD 17	BSP						011379	3		000004 0004	3238		
CD 18	LIP			2200			011384	,	15	002200 2B&0	3239	210	
CD 19	SEL			I+CHAN22RD								3240	
CD 20	EIA			CHAN22RD			011389	,	10	010194 #JR4	3240		BX29
CD 21	SEL			CHAN22RD			011394	2		010194 #194	3240		BX29
CD 22	BSP						011399	3		000004 0004	3241		
CD 23	LIP			2200			011404	,	15	002200 2B&0	3242		
CD 24	SEL			I+CHAN22RD								3243	
CD 25	EIA			CHAN22RD			011409	,	10	010194 #JR4	3243		BX29
CD 26	SEL			CHAN22RD			011414	2		010194 #194	3243		BX29
CD 27	FSP						011419	Y	1	00#0	3244		
CD 28	LIP			2200			011424	,	15	002200 2B&0	3245		
CD 29	SEL			I+CHAN22RD								3246	
CD 30	EIA			CHAN22RD			011429	,	10	010194 #JR4	3246		BX29
CD 31	SEL			CHAN22RD			011434	2		010194 #194	3246		BX29
CD 32	TSA			*65			011439	O	3	011444 /4D4	3247		
CD 33	FSP						011444	Y	1	00#0	3248	211	
CD 34	LIP			2200			011449	,	15	002200 2B&0	3249		
CD 35	SEL			I+CHAN22RD								3253	
CD 36	EIA			CHAN22RD			011454	,	10	010194 #JR4	3253		BX29
CD 37	SEL			CHAN22RD			011459	2		010194 #194	3253		BX29
CD 38	TSA			*65			011464	O	3	011469 /4F9	3254		
CD 39	RCV			@40004			011469	U		040004 000M	3255		
CD 40	BLM			802			011474	\$		000802 0802	3256		
CD 41	RD			@40000			011479	Y		040000 000-	3257		
CD 42	LIP			2200			011484	,	15	002200 2B&0	3258		
CD 43	SEL			I+CHAN22RD								3259	
CD 44	EIA			CHAN22RD			011489	,	10	010194 #JR4	3259		BX29
CD 45	SEL			CHAN22RD			011494	2		010194 #194	3259		BX29

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CE 01		TTC			THREETRY22						011499	O	2	011559 /5N9	3260		CE13
CE 02		SEL			500						011504	2		000500 0500	3261	212	
CE 03		WR			#OK CLEANER ROUTINE#						011509	R		050847 #84P	3262		DA79
CE 04		SET	05		5						011514	B	5	000005 0#5	3263		
CE 05		LOD	05		SAVEREC22						011519	8	5	023279 LSX9	3264		CW27
CE 06		CMP	05		@40004						011524	4	5	040004 0#M	3265		
CE 07		TRE			*G15						011529	L		011544 /544	3266		
CE 08		WR			#BUT RECORD NUMBERS DO NOT COMPARE#						011534	R		051173 /17L	3267		DA92
CE 09		WR			#REPOSITION TAPE#						011539	R		050742 #74K	3268		DA73
CE 10		WR			#RESET DRIVE TO DISCONTINUE#						011544	R		051048 /04Q	3268A		DA88
CE 11		HLT			9559						011549	J		009559 9559	3269		
CE 12		TR			CMP2209						011554	I		010204 #204	3270		BX31
CE 13	THREETRY22	SEL			500						011559	2		000500 0500	3272		
CE 14		WR			#BAD ON CLEANER ROUTINE#						011564	R		050887 #88P	3273	213	DA81
CE 15		SET	05		5						011569	B	5	000005 0#5	3274		
CE 16		LOD	05		SAVEREC22						011574	8	5	023279 LSX9	3275		CW27
CE 17		CMP	05		@40004						011579	4	5	040004 0#M	3276		
CE 18		TRE			*G10						011584	L		011594 /594	3277		
CE 19		WR			#AND RECORD NUMBERS DO NOT COMPARE#						011589	R		051139 /13R	3278		DA91
CE 20		WR			#RESET DRIVE TO DISCONTINUE#						011594	R		051048 /04Q	3278A		DA88
CE 21		TITLE			REPEAT ERROR ROUTINE										3279		
CE 22		SEL			500						011599	2		000500 0500	3279A		
CE 23		WR			#TO REPEAT ERROR ROUTINE TURN ON 912#						011604	R		051207 /20P	3279B		DA93
CE 24		HLT			9229						011609	J		009229 9229	3279C		
CE 25		TAB			*G10						011614	I	2	011624 /6K4	3279D		
CE 26		TR			CMP2209						011619	I		010204 #204	3279E		BX31
CE 27		SEL			I+CHAN22RD										3279F	214	
CE 28		EIA			CHAN22RD						011624	,	10	010194 #JR4	3279F		BX29
CE 29		SEL			CHAN22RD						011629	2		010194 #194	3279F		BX29
CE 30		BSP									011634	3		000004 0004	3279G		
CE 31		LIP			2200						011639	,	15	002200 2B60	3279H		
CE 32		TR			CHAN22RD						011644	1		010194 #194	3279I		BX29
CE 33	ERRLNG22	SEL			500						011649	2		000500 0500	3281		
CE 34		WR			#PERM ERR DUE TO INCORRECT LENGTH#						011654	R		051106 /100	3282		
CE 35		SET	04		4						011659	B	4	000004 0#04	3283		
CE 36		LOD	04		CHAN22RD						011664	8	4	010194 #/94	3284		BX29
CE 37		UNL	04		SAVESEL22						011669	7	4	023269 LS69	3285		CW25
CE 38		WR			SAVESEL22						011674	R		023260 L260	3286		CW25
CE 39		SETOF			SWLL#										3287		
CE40		RCVS			SWLL						011679	U		011100 /100			CC10
CE41		TMTS	1		#G1#						011684	9	1	050001 #0#J		215	DA01
CE 42		SETOF			SWMM#										3288		
CE43		RCVS			SWMM						011689	U		010620 #620			BZ35
CE44		TMTS	1		#G1#						011694	9	1	050001 #0#J			DA01
CE 45		SETOF			SWNN#										3289		

gscan INDEX 0014391 long TAG OP NU AT OPERAND PROGRAM 4-CHAN -- COMMENTS LOC OP SU ADDRESS PGLIN SER REF
 CF01 RCVS SWNN #&1# 011699 U 010295 #295 BY08
 CF02 TMTS 1 011704 9 1 050001 #0#J DA01
 CF 03 SETOF RD0322# 011709 U 010790 #790 3290
 CF04 RCVS RD0322 011714 9 1 050001 #0#J CA27
 CF05 TMTS 1 #&1# 011719 J 008880 8880 3291 DA01
 CF 06 HLT 8880 PRESS START TO READ NEXT TAPE
 CF 07 TR CMP2209 011724 1 010204 #204 3292 BX31
 CF 08 REDUNT22 LDA 03 LODCHAR22 011729 # 3 011214 /2A4 3293 CC32
 CF 09 ULA 03 RCVGOOD 011734 * 3 013744 T7D4 3294 CP01
 CF 10 LDA 03 CMP22 011739 # 3 011219 /2A9 3295 CC33
 CF 11 ULA 03 RCVBAD 011744 * 3 013854 T8E4 3296 216CP23
 CF 12 RCVS BITEXIT&1 011749 U 014121 U121 3297 CQ38
 CF 13 TSL BITENTRY 011754 1 1 013729 T7S9 3298 CO44
 CF 14 TR CHAROK22 011759 1 011289 /289 3299 CC47
 CF 15 TITLE END OF FILE ROUTINE CHANNEL 22 3301
 CF 16 SETSW222 SETOF EOFSW222# 011764 U 006320 6320 3302
 CF17 SETSW222 RCVS EOFSW222 011769 9 1 050001 #0#J BE19
 CF18 TMTS 1 #&1# DA01
 CF 19 SETON SWY# 011774 U 006275 6275 3303
 CF20 RCVS SWY 011779 9 1 050378 #3XQ BE10
 CF21 TMTS 1 #1# 011784 2 002200 2200 3304 DA37
 CF 22 RWD2200 SEL 2200 011789 0 1 011829 /8S9 3305 CF31
 CF 23 TRR IOF22 011794 B 1 000001 00#1 3306
 CF 24 CMPEND22 SET 01 011799 8 1 050379 #3XR 3307 DA38
 CF 25 LOD 01 #9# 011804 4 1 011784 /7Y4 3308 217CF22
 CF 26 CMP 01 RWD2200 011809 L 011844 /844 3309 CF34
 CF 27 TRE END22 011814 8 1 050378 #3XQ 3310 DA37
 CF 28 LOD 01 #1# 011819 6 1 011784 /7Y4 3311 CF22
 CF 29 ADM 01 RWD2200 011824 1 011784 /784 3312 CF22
 CF 30 TR RWD2200
 CF 31 IOF22 IOF 011829 3 000000 0000 3313
 CF 32 RWD 011834 3 000002 0002 3314
 CF 33 TR CMPEND22 011839 1 011794 /794 3315 CF24
 CF 34 END22 SET 1 1 011844 B 1 000001 00#1 3316
 CF 35 LOD 1 #0# 011849 8 1 050377 #3XP 3316A DA36
 CF 36 UNL 1 RWD2200 011854 7 1 011784 /7Y4 3316B CF22
 CF 37 LIP 2200 011859 15 002200 2860 3316C
 CF 38 HLT 8888 LIP FAILED PRESS START 011864 J 008888 8888 3317 218
 CF 39 TR #-10 011869 1 011859 /859 3318
 CF 40 TITLE CHANNEL 23 READ PROGRAM 3401
 CF 41 CHAN23RD SEL 2300 011874 2 002300 2300 3402
 CF 42 TRR RCVBLM23 011879 0 1 011934 /9T4 3403 CG11

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CG 01	CMP2309	SET	01	1				COMPARE FOR LAST TAPE 2309	011884	B	1	000001 00#1	3404		
CG 02		LOD	01	#9#					011889	8	1	050379 #3XR	3405	DA38	
CG 03		CMP	01	CHAN23RD					011894	4	1	011874 /8X4	3406	CF41	
CG 04		TRE		RESTORE23R					011899	L		011919 /919	3407	CG08	
CG 05		LOD	01	#1#					011904	8	1	050378 #3XQ	3408	DA37	
CG 06		ADM	01	CHAN23RD				ADD 1 TO SELECT ADDRESS	011909	6	1	011874 /8X4	3409	CF41	
CG 07		TR		CHAN23RD					011914	1		011874 /874	3410	CF41	
CG 08	RESTORE23R	LOD	01	#0#				RESTORE SELECT ADDRESS TO 2300	011919	8	1	050377 #3XP	3411	DA36	
CG 09		UNL	01	CHAN23RD					011924	7	1	011874 /8X4	3412	219CF41	
CG 10		TR		CHAN23RD					011929	1		011874 /874	3413	CF41	
CG 11	RCVBLM23	RCV		@45004					011934	U		045004 500M	3414		
CG 12		BLM		10					011939	S		000010 0010	3415		
CG 13		RD		@45000					011944	Y		045000 500-	3416		
CG 14		LIP		2300					011949	*	15	002300 2C60	3417		
CG 15		SEL		I+CHAN23RD						1		52364	3418		
CG 16		EIA		CHAN23RD					011954	*	10	011874 /0P4	3418	CF41	
CG 17		SEL		CHAN23RD					011959	2		011874 /874	3418	CF41	
CG 18		TSA		TTCEOFRD23					011964	O	3	012004 S064	3419	CG26	
CG 19	RCVLNG23	RCVS		LNGEXIT23&1				CHECK LENGTH EVERY RECORD	011969	U		012626 S626	3420	CJ32	
CG 20		TSL		LENGTH23					011974	I	1	012444 S4U4	3421	CI33	
CG 21	SWQQ	SWN		NOPCT23				TO TR IF LENGTH CHK WITH NO PCT	011979	A		011989 /989	3422	CG23	
CG 22		TR		CMP2309					011984	I		011884 /884	3423	220CG01	
CG 23	NOPCT23	SEL		500					011989	2		000500 0500	3424		
CG 24		WR		#NO RD ERRORS CHAN 23#					011994	R		050866 #860	3425	DA80	
CG 25		TR		TEMP23&10					011999	1		012324 S324	3426	CI03	
CG 26	TTCEOFRD23	TTC		TTCRD23					012004	O	2	012019 S0J9	3427	CG30	
CG 27		TRS		SETSW223				TO EOF ROUTINE	012009	O		013479 T479	3428	CN33	
CG 28		TR		RCVLNG23					012014	I		011969 /969	3429	CG19	
CG 29		TITLE		TTC ROUTINE CH 23									3430		
CG 30	TTCRD23	NOP		TMprd23-40					012019	A		022459 K459	3431		
CG 31		LDA	07	*-5					012024	#	7	012019 S#A9	3432		
CG 32		ULA	07	ADMTMPRD23					012029	*	7	012244 SSD4	3433	CH36	
CG 33		SET	01	1					012034	B	1	000001 00#1	3434		
CG 34		LOD	01	CHAN23RD				TO MODIFY ADM ADDRESS FOR TEMP	012039	8	1	011874 /8X4	3435	CF41	
CG 35		UNL	01	SAVEADD23-1				READ CTR DEPENDING ON TAPE ADD	012044	7	1	012053 S0V3	3436	221CG37	
CG 36		TR		*&10					012049	I		012059 S059	3437		
CG 37	SAVEADD23	SGN		@0000					012054	T		000000 0000	3438		
CG 38		LDA	04	SAVEADD23					012059	#	4	012054 S#54	3439	CG37	
CG 39		AAM	04	ADMTMPRD23					012064	@	4	012244 SS44	3440	CH36	
CG 40		TITLE		SETUP FOR 9 BACKSPACES									3441		
CG 41	RERDCTR23	RAD	12	#&000#				CASU 12 FOR CH 23	012069	H	12	050007 #60P	3442		
CG 42	ADD12	ADD	12	#&001#					012074	G	12	050010 #61-	3443	DA05	
CG 43		SST		SST23RDIN					012079	Y	3	023325 L385	3444	CW39	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CH 01		TSA			*65						012084	O	3	012089	S0H9	3445	
CH 02		SEL		I	CHAN23RD										3453		
CH 03		EIA			CHAN23RD						012089	*	10	011874	/QP4	3453	CF41
CH 04		SEL			CHAN23RD						012094	2		011874	/874	3453	CF41
CH 05		BSP									012099	3		000004	0004	3454	
CH 06		LIP			2300						012104	*	15	002300	2C&0	3455	222
CH 07		SEL		I	CHAN23RD										3456		
CH 08		EIA			CHAN23RD						012109	*	10	011874	/QP4	3456	CF41
CH 09		SEL			CHAN23RD						012114	2		011874	/874	3456	CF41
CH 10		RCV			@45004						012119	U		045004	500M	3457	
CH 11		BLM			802						012124	\$		000802	0802	3458	
CH 12		RD			@45000		REREAD ERROR TAPE				012129	Y		045000	500-	3459	
CH 13		LIP			2300						012134	*	15	002300	2C&0	3460	
CH 14		SEL		I	CHAN23RD										3461		
CH 15		EIA			CHAN23RD						012139	*	10	011874	/QP4	3461	CF41
CH 16		SEL			CHAN23RD						012144	2		011874	/874	3461	CF41
CH 17		TTC			MFY23						012149	O	2	012414	S4J4	3462	C126
CH 18		RCVS			NOERRB323W&1		MODIFY RD 03 COUNTERS				012154	U		006141	6141	3463	BD28
CH 19		TSL			ENTRD323RD						012159	I	1	005994	59Z4	3464	BC45
CH 20		SET	04		4						012164	B	4	000004	0#04	3465	223
CH 21		LOD	04		CHAN23RD						012169	8	4	011874	/Y74	3466	CF41
CH 22		UNL	04		ERRSEL23						012174	7	4	021943	JZ43	3467	CU23
CH 23		SET	04		5						012179	B	4	000005	0#05	3468	
CH 24		LOD	04		@45004						012184	8	4	045004	5#0M	3469	
CH 25		UNL	04		TTCERMSG23						012189	7	4	021949	JZ49	3470	
CH 26		SET	04		2						012194	B	4	000002	0#02	3471	CU24
CH 27		LOD	04		SST23RDIN-3						012199	8	4	023326	LT26	3472	
CH 28		UNL	04		RD323						012204	7	4	021952	JZ52	3473	
CH 29		TAD			*615						012209	I	012224	6624	3474	CU25	
CH 30		SEL			500						012214	2		000500	0500	3475	
CH 31		TR			*610						012219	1		012229	S229	3476	
CH 32		SEL			400						012224	2		000400	0400	3477	224
CH 33		WR			ERRSEL23						012229	R		021940	J940	3478	CU23
CH 34		SET	3		3						012234	B	3	000003	0#3	3479	
CH 35		LOD	3		#001#						012239	8	3	050384	#3HM	3480	
CH 36	ADMTMPRD23	ADM	3		TMPRD23~40						012244	6	3	022459	K4E9	3481	CV08
CH 37		SET	12		5						012249	B	12	000005	0#05	3482	
CH 38		SET	5		5						012254	B	5	000005	0##5	3483A	
CH 39		LOD	5		#00001#						012259	8	5	050074	##XM	3483B	
CH 40		CMP	12		#00003#						012264	4	12	050079	#67R	3483C	DA16
CH 41		TRE			*610						012269	L		012279	S279	3483D	DA17
CH 42		TRH			*615						012274	K		012289	S289	3483E	
CH 43		ADM	5		CORRTHREE						012279	6	5	023458	LUV8	3483F	CX10
CH 44		TR			*610						012284	1		012294	S294	3483G	225
CH 45		ADM	5		CORRNINE						012289	6	5	023492	LUZZ	3483H	CX12
CH 46		RCVS			LNGEXIT23&1						012294	U		012626	S626	3484	CJ32
CH 47		TSL			LENGTH23						012299	I	1	012444	S4U4	3485	CI33

03 12224 S284

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CI 01	SWPP	SWN			TEMP23						012304	A		012314 S314 3486		CI03	
CI 02		TR			CMP2309						012309	1		011884 /884 3487		CG01	
CI 03	TEMP23	SEL			500						012314	2		000500 0500 3488			
CI 04		WR			#CORRECTED RD ERROR#						012319	R		050809 #80R 3489		DA77	
CI 05		SET	04		4						012324	B	4	000004 0#04 3490			
CI 06		LOD	04		CHAN23RD						012329	B	4	011874 /Y74 3491		CF41	
CI 07		UNL	04		SAVESEL23						012334	7	4	023344 LT44 3492		CW41	
CI 08		SET	05		5						012339	B	5	000005 0##5 3493			
CI 09		RCVS			SAVEREC23						012344	U		023350 L350 3494	226CW43		
CI 10		TMTS	05		@45000						012349	9	5	045000 5##- 3495			
CI 11		WR			#RECORD NO. 0#						012354	R		050477 #47P 3496		DA53	
CI 12		WR			SAVEREC23						012359	R		023350 L350 3497		CW43	
CI 13		WR			SAVESEL23						012364	R		023335 L335 3498		CW41	
CI 14		WR			# 0#						012369	R		050380 #38- 3499		DA39	
CI 15		SETOF			SW00#										3501		
CI 16		RCVS			SW00						012374	U		012815 S815		CK27	
CI 17		TMTS	1		#&1#						012379	9	1	050001 #0#J		DA01	
CI 18		SETOF			SWPP#										3502		
CI 19		RCVS			SWPP						012384	U		012300 S300		CI01	
CI 20		TMTS	1		#&1#						012389	9	1	050001 #0#J		DA01	
CI 21		SETOF			SWQQ#										3503		
CI 22		RCVS			SWQQ						012394	U		011975 /975		CG21	
CI 23		TMTS	1		#&1#						012399	9	1	050001 #0#J		DA01	
CI 24		HLT			6789						012404	J		006789 6789 3504	227		
CI 25		TR			CMP2309						012409	1		011884 /884 3505		CG01	
CI 26	MFY23	CMP	12		#009#						012414	4	12	050387 #C8P 3506		DA41	
CI 27		TRE			PERMERR23						012419	L		012734 S734 3507		CK09	
CI 28		TRH			IMPOSS23						012424	K		012434 S434 3508		C130	
CI 29		TR			ADD12						012429	I		012074 S074 3509		CG42	
CI 30	IMPOSS23	HLT			9669		EXCEEDED 9 BACKSPACES-PRESS START				012434	J		009669 9669 3510			
CI 31		TR			PERMERR23		TO GO TO PERM ERROR ROUTINE.				012439	1		012734 S734 3511		CK09	
CI 32		TITLE			LENGTH CHECK ROUTINE CHANNEL 23										3512		
CI 33	LENGTH23	SET	05		5						012444	B	5	000005 0##5 3513			
CI 34		LOD	05	#	#						012449	8	5	050054 ##VM 3514		DA12	
CI 35		CMP	05		@45016		IF BLANKS. NOISE RECORD				012454	4	5	045016 5#/0 3515			
CI 36		TRE			NOISE23						012459	L		012634 S634 3516		CJ33	
CI 37		SEL			I+CHAN23RD										3517	228	
CI 38		EIA			CHAN23RD						012464	10		011874 /QP4 3517		CF41	
CI 39		SEL			CHAN23RD						012469	2		011874 /874 3517		CF41	
CI 40	R00323	SWN			*&10						012474	A		012484 S484 3518			
CI 41		RMA			RDTW023		RD 02 FOR LENGTH				012479	Y	2	023360 L300 3519		CW45	

	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CJ 01	SETOF			RD0323#								3520		
CJ02	RCVS			RD0323				012484	U		012470 S470			CI40
CJ03	TMTS	1		#&1#				012489	9	1	050001 #0#J			DA01
CJ 04	SGN	01		RDTW023				012494	T	1	023364 L3W4	3521		CW45
CJ 05	SET	05		1				012499	B	5	000001 0#1#	3522		
CJ 06	LOD	05		RDTW023-3				012504	8	5	023361 LTW1	3523		CW45
CJ 07	SUB	05		#&5#				012509	P	5	050002 ###K	3524		DA02
CJ 08	UNL	05		RDTW023-3				012514	7	5	023361 LTW1	3525		CW45
CJ 09	SET	04		4				012519	B	4	000004 0#04	3526		
CJ 10	LOD	04		RDTW023				012524	8	4	023364 LT64	3527	229	CW45
CJ 11	CMP	04		@45012				012529	4	4	045012 5#1K	3528		
CJ 12	TRE			CHKGM23				012534	L		012579 S579	3529		CJ21
CJ 13	SEL			500				012539	2		000500 0500	3530		
CJ 14	WR			#LENGTH CHK#*				012544	R		050466 #460	3531		DA52
CJ 15	WR			RDTW023	WRITE RECORD LENGTH			012549	R		023360 L360	3532		
CJ 16	SET	04		4				012554	B	4	000004 0#04	3533		CW45
CJ 17	RCVS			SAVELNGTH3&1				012559	U		023371 L371	3534		CW47
CJ 18	TMTS	04		@45009				012564	9	4	045009 5#0R	3535		
CJ 19	WR			SAVELNGTH3	WRITE WHAT LENGTH SHOULD BE			012569	R		023370 L370	3536		CW47
CJ 20	TR			SGNALL23				012574	1		012699 S699	3537		CJ47
CJ 21	CHKGM23	ADD	05	#&5#				012579	G	5	050002 ###K	3538		DA02
CJ 22	UNL	05		RDTW023-3				012584	7	5	023361 LTW1	3539	230	CW45
CJ 23	LOD	04		RDTW023				012589	8	4	023364 LT64	3540		CW45
CJ 24	SUB	04		#&00001#				012594	P	4	050017 #1P	3541		DA07
CJ 25	UNL	04		RDTW023				012599	7	4	023364 LT64	3542		CW45
CJ 26	ADM	01		RDTW023				012604	6	1	023364 L3W4	3543		CW45
CJ 27	LOD	01		#0#				012609	8	1	050376 #3X0	3544		DA35
CJ 28	CMP	01	I+RDTW023									3545		
CJ 29	EIA			RDTW023				012614	10		023364 LL04	3545		CW45
CJ 30	CMP	01		RDTW023				012619	4	1	023364 L3W4	3545		CW45
CJ 31	TRE			SHORT23				012624	L		012669 S669	3546		CJ40
CJ 32	LNGEXIT23	TR		*-5				012629	1		012624 S624	3547		
CJ 33	NOISE23	SEL		500				012634	2		000500 0500	3548		
CJ 34	WR			#NOISE RECORD#*				012639	R		050567 #56P	3549		DA61
CJ 35	SET	04		4				012644	B	4	000004 0#04	3550	231	
CJ 36	LOD	04		CHAN23RD				012649	8	4	011874 /Y74	3551		CF41
CJ 37	UNL	04		SAVESEL23				012654	7	4	023344 LT44	3552		CW41
CJ 38	WR			SAVESEL23				012659	R		023335 L335	3553		CW41
CJ 39	TR			SGNALL23				012664	1		012699 S699	3554		CJ47
CJ 40	SHORT23	SET	04	4				012669	B	4	000004 0#04	3555		
CJ 41	RCVS			SAVELNGTH3&1				012674	U		023371 L371	3576		CW47
CJ 42	TMTS	04		@45009				012679	9	4	045009 5#0R	3557		
CJ 43	SEL			500				012684	2		000500 0500	3578		
CJ 44	WR			#LENGTH CHK=SHORT 1 TO 4 CHAR#*				012689	R		050305 #30N	3559		DA32
CJ 45	WR			SAVELNGTH3	WRITE WHAT LENGTH SHOULD BE			012694	R		023370 L370	3560		CW47
CJ 46	SGNALL23	SETON		SW00#								3561		
CJ47	SGNALL23	RCVS		SW00				012699	U		012815 S815			CK27
CJ48	TMTS	1		#1#				012704	9	1	050378 #3XQ			232 DA37

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CK 01		SETON			SWPP#									3562		
CK02		RCVS			SWPP,					012709	U		012300 S300			C101
CK03		TMTS	1		#1#					012714	9	1	050378 #3XQ			DA37
CK 04		SETON			SWQQ#									3563		
CK05		RCVS			SWQQ					012719	U		011975 /975			CG21
CK06		TMTS	1		#1#					012724	9	1	050378 #3XQ			DA37
CK 07		TR			LNGEXIT23					012729	1		012629 S629 3564			CJ32
CK 08	PERMERR23	SETON			RD0323#									3565		
CK09	PERMERR23	RCVS			RD0323					012734	U		012470 S470			C140
CK10		TMTS	1		#1#					012739	9	1	050378 #3XQ			DA37
CK 11		SPC			2310					012744			002310 2310 3566			
CK 12		UFC			RDTW023					012749	*	3	023364 L3F4 3567			CW45
CK 13		SEL			I+CHAN23RD									3568		
CK 14		EIA			CHAN23RD					012754	,	10	011874 /QP4 3568			CF41
CK 15		SEL			CHAN23RD					012759	2		011874 /874 3568			CF41
CK 16		SST			SST23RDIN	RD 03				012764	Y	3	023325 L385 3569		233CW39	
CK 17		TSA			*65					012769	O	3	012774 S7G4 3570			
CK 18		SEL			500					012774	2		000500 0500 3571			
CK 19		WR			#RD 03 DATA PERM ERRO#					012779	R		050205 #20N 3572			DA27
CK 20		SET	02		2					012784	B	2	000002 00-2 3578			
CK 21		LOD	02		SST23RDIN-3					012789	8	2	023326 L3K6 3579			CW39
CK 22		UNL	02		SSTSOLVE					012794	7	2	023401 L4-1 3580			CX06
CK 23		RCVS			SSTEXIT&1					012799	U		013721 T721 3581			C042
CK 24		TSL			SSTENTRY					012804	1	1	013589 T5Y9 3582			C015
CK 25		RCVS			LNGEXIT23&1					012809	U		012626 S626 3583			CJ32
CK 26		TSL			LENGTH23					012814	I	1	012444 S4U4 3584			C133
CK 27	SWOO	SWN			ERRLNG23					012819	A		013364 T364 3585			CN04
CK 28		SET	05		4					012824	B	5	000004 0##4 3586		234	
CK 29		LOD	05		CHAN23RD				TO IDENTIFY SEL ADD AND RECORD NO.	012829	8	5	011874 /YX4 3587			CF41
CK 30		UNL	05		SAVESEL23				IN ERROR	012834	7	5	023344 LTU4 3588			CW41
CK 31		SET	05		5					012839	B	5	000005 0##5 3589			
CK 32		LOD	05		@45004					012844	8	5	045004 5##M 3590			
CK 33		UNL	05		SAVEREC23					012849	7	5	023354 LTV4 3591			
CK 34		SEL			500					012854	2		000500 0500 3592			CW43
CK 35		WR			#PERM RD ERRO#					012859	R		050543 #54L 3593			DA59
CK 36		WR			SAVESEL23					012864	R		023335 L335 3594			CW41
CK 37		WR			#RECORD NO.##					012869	R		C50477 #47P 3595			DA53
CK 38		WR			SAVEREC23					012874	R		023350 L350 3596			CW43
CK 39		SET	04		4					012879	B	4	000004 0#04 3597			
CK 40		LOD	04		@4E012				ACTUAL LENGTH OF RECORD	012884	8	4	045012 5#1K 3598		235	
CK 41		SUB	04		#&0005#				COMPENSATE FOR RECORD NO.	012889	P	4	050021 #2J 3599			DA08
CK 42		SET	05		4					012894	B	5	000004 0##4 3601			
CK 43		LOD	05		@45008				LOAD INITIAL CMP LOC OF MASTER REC	012899	8	5	045008 5##Q 3602			
CK 44		UNL	05		LODCHAR23					012904	7	5	012929 SZS9 3603			CL02
CK 45		SBN	A		LODCHAR23-1				SIGN IT FOR CASU 1	012909	%	13	012928 SIS8 3604			CL02
CK 46		LDA	02		#0500N#					012914	*	2	050089 #0QR 3605			DA19
CK 47		ULA	02		CMP23					012919	*	2	012934 S9L4 3606			CI03

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
CL 01		SET	01	1							012924	B	1	000001	00#1	3607		
CL 02	LODCHAR23	LOD	01	@9999							012929	8	1	009999	9929	3608		
CL 03	CMP23	CMP	01	@45005							012934	4	1	045005	50#N	3609		
CL 04		TMC		REDUNT23							012939	0	11	013444	TMD4	3610	CN24	
CL 05		TRE		CHAROK23							012944	L		013004	T004	3611	236CL17	
CL 06		SEL		500							012949	2		000500	0500	3612		
CL 07		WR		#NOT EQUAL NO 901#*							012954	R		050775	#77N	3613	#A75	
CL 08		LDA	02	CMP23							012959	#	2	012934	S9L4	3614	CL03	
CL 09		SET	02	5							012964	B	2	000005	00-5	3615		
CL 10		UNL	02	SAVECOMP23							012969	7	2	023384	L3Q4	3616	CX02	
CL 11		WR		SAVECOMP23							012974	R		023380	L380	3617	CX02	
CL 12		LDA	02	LODCHAR23							012979	#	2	012929	S9K9	3618	CL02	
CL 13		SET	02	5							012984	B	2	000005	00-5	3619		
CL 14		UNL	02	SAVEGOOD23							012989	7	2	023394	L3R4	3620	CX04	
CL 15		WR		SAVEGOOD23							012994	R		023390	L390	3621	CX04	
CL 16		WR		# #*							012999	R		050380	#38-	3622	#A39	
CL 17	CHAROK23	SUB	04	#&001#							013004	P	4	050010	##1-	3623	237#A05	
CL 18		TRZ	04	COMCOMPL23							013009	N	4	013039	T#39	3624	CL24	
CL 19		LDA	05	#00001#							013014	#	5	050074	##XM	3625	#A16	
CL 20		AAM	05	LODCHAR23							013019	e	5	012929	SZS9	3626	CL02	
CL 21		AAM	05	CMP23							013024	e	5	012934	SZT4	3627	CL03	
CL 22		SET	01	1							013029	B	1	000001	00#1	3628		
CL 23		TR		LODCHAR23							013034	I		012929	S929	3629	CL02	
CL 24	COMCOMPL23	SEL		500							013039	2		000500	0500	3630		
CL 25		WR		TOTBADCHAR							013044	R		023405	L405	3631	CX08	
CL 26		SET	04	0							013049	B	4	000000	0#00	3632		
CL 27		SET	04	4							013054	B	4	000004	0#04	3633		
CL 28		UNL	04	TOTBADCHAR							013059	7	4	023424	LU24	3634	CX08	
CL 29	TRIPBSP23	SEL		I♦CHAN23RD											3641	238		
CL 30	TRIPBSP23	EIA		CHAN23RD							013064	,	10	011874	/QP4	3641	CF41	
CL 31		SEL		CHAN23RD							013069	2		011874	/874	3641	CF41	
CL 32		BSP									013074	3		000004	0004	3642		
CL 33		LIP		2300							013079	,	15	002300	2C&0	3643		
CL 34		SEL		I♦CHAN23RD											3644			
CL 35		EIA		CHAN23RD							013084	,	10	011874	/QP4	3644	CF41	
CL 36		SEL		CHAN23RD							013089	2		011874	/874	3644	CF41	
CL 37		BSP									013094	3		000004	0004	3645		
CL 38		LIP		2300							013099	,	15	002300	2C&0	3646		
CL 39		SEL		I♦CHAN23RD											3647			
CL 40		EIA		CHAN23RD							013104	,	10	011874	/QP4	3647	CF41	
CL 41		SEL		CHAN23RD							013109	2		011874	/874	3647	CF41	
CL 42		BSP									013114	3		000004	0004	3648		
CL 43		LIP		2300							013119	,	15	002300	2C&0	3649		
CL 44		SEL		I♦CHAN23RD											3650	239		
CL 45		EIA		CHAN23RD							013124	,	10	011874	/QP4	3650	CF41	
CL 46		SEL		CHAN23RD							013129	2		011874	/874	3650	CF41	
CL 47		FSP									013134	Y	1		00#0	3651		
CL 48		LIP		2300							013139	,	15	002300	2C&0	3652		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CM 01		SEL		I	CHAN23RD									3653		
CM 02		EIA			CHAN23RD					013144	,	10	011874 /QP4	3653		CF41
CM 03		SEL			CHAN23RD					013149	2		011874 /874	3653		CF41
CM 04		TSA			*65					013154	0	3	013159 T1E9	3654		
CM 05		FSP								013159	Y	1	00#0	3655		
CM 06		LIP			2300					013164	,	15	002300 2C&0	3656		
CM 07		SEL		I	CHAN23RD									3660		
CM 08		EIA			CHAN23RD					013169	,	10	011874 /QP4	3660		CF41
CM 09		SEL			CHAN23RD					013174	2		011874 /874	3660		CF41
CM 10		TSA			*65					013179	0	3	013184 T1H4	3661		
CM 11		RCV			@45004					013184	U		045004 500M	3662	240	
CM 12		BLM			802					013189	\$		000802 0802	3663		
CM 13		RD			@45000					013194	Y		045000 500-	3664		
CM 14		LIP			2300					013199	,	15	002300 2C&0	3665		
CM 15		SEL		I	CHAN23RD									3666		
CM 16		EIA			CHAN23RD					013204	,	10	011874 /QP4	3666		CF41
CM 17		SEL			CHAN23RD					013209	2		011874 /874	3666		CF41
CM 18		TTC			THREETRY23					013214	0	2	013274 T2P4	3667		CM30
CM 19		SEL			500					013219	2		000500 0500	3668		
CM 20		WR			#OK CLEANER ROUTINE#*					013224	R		050847 #84P	3669		DA79
CM 21		SET	05		5					013229	B	5	000005 0#5	3670		
CM 22		LOD	05		SAVEREC23					013234	8	5	023354 LTV4	3671		CW43
CM 23		CMP	05		@45004					013239	4	5	045004 5#M	3672		
CM 24		TRE			*615					013244	L		013259 T259	3673	241	
CM 25		WR			#BUT RECORD NUMBERS DO NOT COMPARE#*					013249	R		051173 /17L	3674		DA92
CM 26		WR			#REPOSITION TAPE#*					013254	R		050742 #74K	3675		DA73
CM 27		WR			#RESET DRIVE TO DISCONTINUE#*					013259	R		051048 /04Q	3675A		DA88
CM 28		HLT			9559					013264	J		009559 9559	3676		
CM 29		TR			CMP2309					013269	I		011884 /884	3677		CG01
CM 30	THREETRY23	SEL			500					013274	2		000500 0500	3678		
CM 31		WR			#BAD ON CLEANER ROUTINE#*					013279	R		050887 #88P	3679		DA81
CM 32		SET	05		5					013284	B	5	000005 0#5	3680		
CM 33		LOD	05		SAVEREC23					013289	8	5	023354 LTV4	3681		CW43
CM 34		CMP	05		@45004					013294	4	5	045004 5#M	3682		
CM 35		TRE			*610					013299	L		013309 T309	3683		
CM 36		WR			#AND RECORD NUMBERS DO NOT COMPARE#*					013304	R		051139 /13R	3684	242DA91	
CM 37		WR			#RESET DRIVE TO DISCONTINUE#*					013309	R		051048 /04Q	3684A		DA88
CM 38		TITLE			REPEAT ERROR ROUTINE									3685		
CM 39		SEL			500					013314	2		000500 0500	3685A		
CM 40		WR			#TO REPEAT ERROR ROUTINE TURN ON 912#*					013319	R		051207 /20P	3685B		DA93
CM 41		HLT			9229					013324	J		009229 9229	3685C		
CM 42		TAB			*610					013329	I	2	013339 T3L9	3685D		
CM 43		TR			CMP2309					013334	I		011884 /884	3685E		CG01
CM 44		SEL		I	CHAN23RD									3685F		
CM 45		EIA			CHAN23RD					013339	,	10	011874 /QP4	3685F		CF41
CM 46		SEL			CHAN23RD					013344	2		011874 /874	3685F		CF41

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- - -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CN 01		BSP							013349	3		000004 0004	3685G		
CN 02		LIP			2300				013354	*	15	002300 2C60	3685H		
CN 03		TR			CHAN23RD				013359	1		011874 /874	3685I	CF41	
CN 04	ERRLNG23	SEL			500				013364	2		000500 0500	3687	243	
CN 05		WR			#PERM ERR DUE TO INCORRECT LENGTH#*				013369	R		051106 /100	3688	DA90	
CN 06		SET	04		4				013374	B	4	000004 0#04	3689		
CN 07		LOD	04		CHAN23RD				013379	8	4	011874 /Y74	3690	CF41	
CN 08		UNL	04		SAVESEL23				013384	7	4	023344 LT44	.3691	CW41	
CN 09		WR			SAVESEL23				013389	R		023335 L335	3692	CW41	
CN 10		SETOF			SWOO#								3693		
CN11		RCVS			SWOO				013394	U		012815 S815		CK27	
CN12		TMTS	1		#&1#				013399	9	1	050001 #0#J		DA01	
CN 13		SETOF			SWPP#								3694		
CN14		RCVS			SWPP				013404	U		012300 S300		CI01	
CN15		TMTS	1		#&1#				013409	9	1	050001 #0#J		DA01	
CN 16		SETOF			SWQQ#								3695		
CN17		RCVS			SWQQ				013414	U		011975 /975		CG21	
CN18		TMTS	1		#&1#				013419	9	1	050001 #0#J		DA01	
CN 19		SETOF			RD0323#								3696	244	
CN20		RCVS			RD0323				013424	U		012470 S470		CI40	
CN21		TMTS	1		#&1#				013429	9	1	050001 #0#J		DA01	
CN 22		HLT			8880		PRESS START TO RD NEXT TAPE		013434	J		008880 8880	3697		
CN 23		TR			CMP2309				013439	1		011884 /884	3698	CG01	
CN 24	REDUNT23	LDA	03		LODCHAR23				013444	#	3	012929 S9B9	3699	CL02	
CN 25		ULA	03		RCVGOOD				013449	*	3	013744 T7D4	3701	CP01	
CN 26		LDA	03		CMP23				013454	#	3	012934 S9C4	3702	CL03	
CN 27		ULA	03		RCVBAD				013459	*	3	013854 T8E4	3703	CP23	
CN 28		RCVS			BITEXIT&1				013464	U		014121 U121	3704	CQ38	
CN 29		TSL			BITENTRY				013469	1	1	013729 T7S9	3705	CO44	
CN 30		TR			CHAROK23				013474	1		013004 T004	3705A	CL17	
CN 31		TITLE			END OF FILE ROUTINE CHANNEL 23								3706		
CN 32	SETSW223	SETOF			EOFWSW223#								3707		
CN33	SETSW223	RCVS			EOFWSW223				013479	U		006325 6325		BE20	
CN34		TMTS	1		#&1#				013484	9	1	050001 #0#J		245DA01	
CN 35		SETON			SWZ#								3708		
CN36		RCVS			SWZ				013489	U		006290 6290		BE13	
CN37		TMTS	1		#1#				013494	9	1	050378 #3XQ		DA37	
CN 38	RWD2300	SEL			2300				013499	2		002300 2300	3709		
CN 39		TRR			I0F23				013504	O	1	013544 T5U4	3710	CO05	
CN 40	CMPEND23	SET	01		1				013509	B	1	000001 00#1	3711		
CN 41		LOD	01		#9#				013514	8	1	05C379 #3XR	3712	DA38	
CN 42		CMP	01		RWD2300				013519	4	1	013499 T4Z9	3713	CN38	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
CO 01		TRE			END23					013524	L	013559	T559	3714		CO08	
CO 02		LOD	01		#1#					013529	8	1	050378	#3XQ	3715		DA37
CO 03		ADM	01		RWD2300					013534	6	1	013499	T4Z9	3716		CN38
CO 04		TR			RWD2300					013539	1		013499	T499	3717		CN38
CO 05	I0F23	I0F								013544	3		000000	0000	3718	246	
CO 06		RWD								013549	3		000002	0002	3719		
CO 07		TR			CMPEND23					013554	1		013509	T509	3720		CN40
CO 08	END23	SET	1		1					013559	B	1	000001	00#1	3721		
CO 09		LOD	1		#0#					013564	8	1	050377	#3XP	3722		DA36
CO 10		UNL	1		RWD2300					013569	7	1	013499	T4Z9	3723		CN38
CO 11		LIP			2300					013574	15		002300	2CG0	3724		
CO 12		HLT			8888				LIP FAILED-PRESS START	013579	J		008888	8888	3725		
CO 13		TR			*-10					013584	1		013574	T574	3726		
CO 14		TITLE			RD 03 BREAKDOWN SUBROUTINE										3801		
CO 15	SSTENTRY	RCVS			SSTSAVE					013589	U		023400	L400	3802		
CO 16		SEL			500					013594	2		000500	0500	3802A		CX06
CO 17		TZB	8		ONEBITA					013599	4		013609	TW09	3803		C019
CO 18		TR			CHARONEOK					013604	1		013659	T659	3804		247C029
CO 19	ONEBITA	TZB	01		*&10				CHK 1 BIT CHAR A	013609	*	1	013619	T6/9	3805		
CO 20		WR			#RW REG VRCD#					013614	R		050488	#48Q	3806		DA54
CO 21		TZB	02		*&10				CHK 2 BIT	013619	*	2	013629	T6K9	3807		
CO 22		WR			#REG A VRCD#					013624	R		050090	#09-	3808		DA20
CO 23		TZB	4		*&10				CHK 4 BIT	013629	*	3	013639	T6C9	3809		
CO 24		WR			#ECHO CHKD#					013634	R		050439	#43R	3810		DA49
CO 25		TZB	A		*&10				CHK A BIT	013639	*	5	013649	TWU9	3811		
CO 26		WR			#RD LRCR#					013644	R		050422	#42K	3812		DA47
CO 27		TZB	B		*&10				CHK B BIT	013649	*	6	013659	TWN9	3813		
CO 28		WR			#COMP CHKD#					013654	R		050430	#43-	3814		DA48
CO 29	CHARONEOK	RCVS			SSTSAVE&1					013659	U		023401	L401	3815		CX06
CO 30		TZB	8		ONEBITB					013664	*	4	013674	TW74	3816		248C032
CO 31		TR			SSTEXIT					013669	1		013724	T724	3817		C042
CO 32	ONEBITB	TZB	01		*&10				CHK 1 BIT CHAR B	013674	*	1	013684	T6Y4	3818		
CO 33		WR			#SKEW CHKD#					013679	R		050457	#45P	3819		DA51
CO 34		TZB	02		*&10				CHK 2 BIT	013684	*	2	013694	T6R4	3820		
CO 35		WR			#LWT CHKD#					013689	R		050414	#41M	3821		DA46
CO 36		TZB	4		*&10				CHK 4 BIT	013694	*	3	013704	T7-4	3822		
CO 37		WR			#UN DEM#					013699	R		050399	#39R	3823		DA44
CO 38		TZB	A		*&10				CHK A BIT	013704	*	5	013714	TX/4	3824		
CO 39		WR			#CHAN ID#					013709	R		050406	#400	3825		DA45
CO 40		TZB	B		*&10				CHK B BIT	013714	*	6	013724	TXK4	3826		
CO 41		WR			#MFX OVFL#					013719	R		050448	#44Q	3827		DA50
CO 42	SSTEXIT	TR			--5					013724	1		013719	T719	3828		249
CO 43		TITLE			BIT COMPARE SUBROUTINE FOR ALL CHANNELS										3901		
CO 44	BITENTRY	TAE			ADDAD					013729	I	5	014109	U/#9	3502		
CO 45		SET	01		1					013734	B	1	000001	00#1	3903		CQ35
CO 46		LOD	01		# #					013739	8	1	050375	#3XN	3904		DA34

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CP 01	RCVGOOD	RCVS			@9999				LOCATION OF GOOD CHAR							
CP 02		TZB	C		*&10					013744	U		009999 9999	3905		
CP 03		TR			*&10					013749	*	7	013759 TXE9	3906		
CP 04		UNL	01		GOODC					013754	1		013764 T764	3907		
CP 05		TZB	B		*&10											
CP 06		TR			*&10											
CP 07		UNL	01		GOODB					013759	7	1	023125 L1S5	3908	CV32	
CP 08		TZB	A		*&10					013764	*	6	013774 TXP4	3909		
CP 09		TR			*&10					013769	1		013779 T779	3910		
CP 10		UNL	01		GOODA					013774	7	1	023126 L1S6	3911	CV33	
CP 11		TZB	B		*&10					013779	*	5	013789 TXY9	3912		
CP 12		TR			*&10					013784	1		013794 T794	3913	250	
CP 13		UNL	01		GOOD8					013789	7	1	023127 L1S7	3914	CV34	
CP 14		TZB	4		*&10					013794	*	4	013804 TY04	3915		
CP 15		TR			*&10					013799	1		013809 T809	3916		
CP 16		UNL	01		GOOD4					013804	7	1	023128 L1S8	3917	CV35	
CP 17		TZB	02		*&10					013809	*	3	013819 T8A9	3918		
CP 18		TR			*&10					013814	1		013824 T824	3919		
CP 19		UNL	01		GOOD2					013819	7	1	023129 L1S9	3920	CV36	
CP 20		TZB	01		*&10					013824	*	2	013834 T8L4	3921		
CP 21		TR			*&10					013829	1		013839 T839	3922		
CP 22		UNL	01		GOOD1					013834	7	1	023130 L1T0	3923	CV37	
CP 23	RCVBAD	RCVS			@9999				ADDRESS OF BAD CHAR	013839	*	1	013849 T8U9	3924		
CP 24		TZB	C		*&10					013844	1		013854 T854	3925	251	
CP 25		TR			*&10					013849	7	1	023131 L1T1	3926	CV38	
CP 26		UNL	01		BADC					013854	U		009999 9999	3927		
CP 27		TZB	B		*&10					013859	*	7	013869 TYF9	3928		
CP 28		TR			*&10					013864	1		013874 T874	3929		
CP 29		UNL	01		BADB					013869	7	1	023135 L1T5	3930	CV40	
CP 30		TZB	A		*&10					013874	*	6	013884 TYQ4	3931		
CP 31		TR			*&10					013879	1		013889 T889	3932		
CP 32		UNL	01		BADA					013884	7	1	023136 L1T6	3933	CV41	
CP 33		TZB	8		*&10					013889	*	5	013899 TYZ9	3934		
CP 34		TR			*&10					013894	1		013904 T904	3935		
CP 35		UNL	01		BAD8					013899	7	1	023137 L1T7	3936	CV42	
CP 36		TZB	4		*&10					013904	*	4	013914 TZ14	3937		
CP 37		TR			*&10					013909	1		013919 T919	3938	252	
CP 38		UNL	01		BAD8					013914	7	1	023138 L1T8	3939	CV43	
CP 39		TZB	02		*&10					013919	*	3	013929 T9B9	3940		
CP 40		TR			*&10					013924	1		013934 T934	3941		
CP 38		UNL	01		BAD4					013929	7	1	023139 L1T9	3942	CV44	
CP 39		TZB	B		*&10					013934	*	2	013944 T9M4	3943		
CP 40		TR			*&10					013939	1		013949 T949	3944		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
CQ 01		UNL	01		BAD2						013944	7	1	023140	L1U0	3945		CV45
CQ 02		TZB	01		*G10						013949	*	1	013959	T9V9	3946		
CQ 03		TR			*G10						013954	1		013964	T964	3947		
CQ 04		UNL	01		BAD1						013959	7	1	023141	L1U1	3948		CV46
CQ 05		TMC			*G5						013964	0	11	013969	TRF9	3949	253	
CQ 06		LDA	01		RCVGOOD						013969	#	1	013744	T7U4	3950		CP01
CQ 07		UNL	01		GOODCHADD						013974	7	1	023159	L1V9	3951		CW01
CQ 08		LDA	01		RCVBAD						013979	#	1	013854	T8V4	3952		CP23
CQ 09		UNL	01		BADCHADD						013984	7	1	023169	L1W9	3953		CW03
CQ 10		SEL			500						013989	2		000500	0500	3954		
CQ 11		WR			GOODCHADD						013994	R		023155	L155	3955		CW01
CQ 12		WR			BADCHADD						013999	R		023165	L165	3956		CW03
CQ 13		SET	08		0						014004	B	8	000000	0-00	3957		
CQ 14		SET	08		7						014009	B	8	000007	0-07	3958		
CQ 15		LDA	05		LODGOOD						014014	#	5	014029	U#S9	3959		CQ18
CQ 16		LDA	06		CMPBAD						014019	#	6	014034	U#L4	3960		CQ19
CQ 17		SET	01		1						014024	B	1	000001	0#1	3961	254	
CQ 18 LODGOOD		LOD	01		GOODC						014029	8	1	023125	L1S5	3962		CV32
CQ 19 CMPBAD		CMP	01		BADC						014034	4	1	023135	L1T5	3963		CV40
CQ 20		TRE			EQBIT						014039	L		014154	U154	3964		CQ45
CQ 21		CMP	01		# #						014044	4	1	050375	#3XN	3965		DA34
CQ 22		TRE			PICKUP						014049	L		014129	U129	3966		CQ40
CQ 23		LOD	01	I	LODGOOD											3967		
CQ 24		EIA			LODGOOD						014054	,	10	014029	U-K9	3967		CQ18
CQ 25		LOD	01		LODGOOD						014059	8	1	014029	U0S9	3967		CQ18
CQ 26		UNL	01		DROPPED						014064	7	1	023146	L1U6	3968		CV48
CQ 27		WR			DROPPED						014069	R		023145	L145	3969		CV48
CQ 28 RESTORE20		ULA	05		LODGOOD						014074	*	5	014029	U#S9	3970		CQ18
CQ 29		ULA	06		CMPBAD						014079	*	6	014034	U#L4	3971		CQ19
CQ 30		SET	07		7						014084	B	7	000007	0#&7	3972	255	
CQ 31		RCVS			GOODC						014089	U		023125	L125	3973		CV32
CQ 32		TMTS	07		#CBA8421#						014094	9	7	050392	#TIK	3974		DA43
CQ 33		RCVS			BADC						014099	U		023135	L135	3975		CV40
CQ 34		TMTS	07		#CBAR8421#						014104	9	7	050392	#TIK	3976		DA43
CQ 35 ADDBAD		SET	08		4						014109	B	8	000004	0-04	3977		
CQ 36		LOD	08		#0001#						014114	8	8	050391	#L9J	3978		DA42
CQ 37		ADM	08		TOTBADCHAR						014119	6	8	023424	LM24	3979		CX08
CQ 38 BITEXIT		TR			@39999						014124	1		039999	I999	3980		
CQ 39 PICKUP		LOD	01	I	CMPBAD											3981		
CQ 40 PICKUP		EIA			CMPBAD						014129	,	10	014034	U-L4	3981		CQ19
CQ 41		LOD	01		CMPBAD						014134	8	1	014024	U0T4	3981		CQ19
CQ 42		JNL	01		PICKED						014139	7	1	023151	L1V1	3982		CV50
CQ 43		WR			PICKED						014144	R		023150	L150	3983	256	CV50
CQ 44		TR			RESTORE20						014149	1		014074	U074	3984		CG28
CQ 45 EQBIT		NTR	08		INCRLOD						014154	X	8	014169	UJ59	3986		
CQ 46		HLT			6996						014159	J		006996	6996	3987		
CQ 47		TR			RESTORE20						014164	1		014074	U074	3988		CQ28

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
CR 01	INCRLOD	LDA	09		#00001*				014169	#	9	050074	#-XM	3989	EA16	
CR 02		AAM	09		LODGODD				014174	e	9	014029	U-S9	3990	CQ18	
CR 03		AAM	09		CMPB&D				014179	e	9	014034	U-T4	3991	CQ19	
CR 04		TR			LODGODD				014184	1		014029	U029	3992	CQ18	
CR 05		TITLE			CONSTANTS FOR ALL WRITE PROGRAMS				14189	I	04	6579	6V79			
CR 06		LASN			020000				14194	2	0200	0200	8001			
CR 07	TMTA	CON	5		00009				14199	1	18219	Y219				
CR 08	TMTB		5		OPL09				020000				8002			
CR 09	TMTC		5		ONP09				020004				8013	257		
CR 10	TMTD		5		OQR59				020009				8014			
CR 11	TMTE		5		ON-09				020014				8015			
CR 12	TMTF		5		OP009				020019				8016			
CR 13	TMTG		5		00N09				020024				8017			
CR 14	TMTH		5		OP-09				020029				8018			
CR 15	TMTI		5		00-09				020034				8019			
CR 16	TMTJ		5		00L09				020039				8020			
CR 17		TITLE			CONSTANTS FOR CH 20 WR PROGRAM				020044				8021			
CR 18		NAME	00						020049				8022			
CR 19	TAPETBL20	RCD	1						020050				8023			
CR 20	TP2000		4						020050				8024			
CR 21			45						020054				8025			
CR 22		CON	5	□					020099				8026			
CR 23	JOBNO		5	□					020104				8027			
CR 24	RECCRTR20		40		NUMBER OF RECORDS WRITTEN - VARIABLE				020109				8028	258		
CR 25	VARIABLE20		5						020149				8029			
CR 26			10		FIXED				020154				8030			
CR 27	FIXED20		5	□					020164				8031			
CR 28			1	□					020169				8032	259		
CR 29		NAME	00						020170				8033			
CR 30	TEMWR2000	CON	50		2000-000	2001-000	2002-000	2003-000	2004-000	020175				8034		
CR 31	TEMWR2005		50	□	2005-000	2006-000	2007-000	2008-000	2009-000	020224				8035		
CR 32			5	□					020274				8036	260		
CR 33	TOTWRER20		10		TOT. 00000				020279				8037	261		
CR 34			5	□					020289				8038			
CR 35		NAME	00						020294				8039			
CR 36	WRSS2000	CON	50		2000-000	2001-000	2002-000	2003-000	2004-000	020295				8040		
CR 37	WRSS2005		50	□	2005-000	2006-000	2007-000	2008-000	2009-000	020344				8041	262	
CR 38			5	□					020394				8042			
CR 39	TOTSK20		10		TOT. 00000				020399				8043	263		
CR 40			5	□					020409				8044			
CR 41	ERRSEL20		4		0000				020414				8045			
CR 42	TTCERMSG20		6		00000				020418				8046			
CR 43	RD320		3						020424				8047	264		
CR 44			1	□					020427				8048			
CR 45	FIVESK20		17		5 SKIPS TAPE 0000				020428				8049			
CR 46			1	□					020445				8050			
CR 47		NAME	00						020446				8051			
									020450				8052			
													8053			

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CS 01	SST20	CON	50		RW-VRC	A-VRC	ECHO	RD-LRC	CMP-CH	SKEW	020499			8054	265	
CS 02				50	DWT	UN-DMD	CH-ID	MPX-OVFD			020549			8055	266	
CS 03	20A1		6		000						020555			8056		
CS 04	20A2		8		000						020563			8057		
CS 05	20A4		8		000						020571			8058	267	
CS 06	20AA		8		000						020579			8059		
CS 07	20AB		8		000						020587			8060		
CS 08	20B1		8		000						020595			8061		
CS 09	20B2		8		000						020603			8062		
CS 10	20B4		8		000						020611			8063		
CS 11	20BA		8		000						020619			8064		
CS 12	20BB		8		000						020627			8065		
CS 13			1		□						020628			8066		
CS 14	TITLE													8101		
CS 15		NAME	00								020630			8102		
CS 16	TAPETBL21	RCD	1								020630			8103		
CS 17	TP2100		4								020634			8104		
CS 18			45								020679			8105		
CS 19		CON	5		□						020684			8106	268	
CS 20	RECCCTR21		40								020724			8107		
CS 21	VARIABLE21		5								020729			8108		
CS 22			10								020739			8109		
CS 23	FIXED21		5								020744			8110	269	
CS 24			1		□						020745			8111		
CS 25		NAME	00								020750			8112		
CS 26	TEMWR2100	CON	50		2100-000	2101-000	2102-000	2103-000	2104-000		020799			8113	270	
CS 27	TEMWR2105		50		□ 2105-000	2106-000	2107-000	2108-000	2109-000		020849			8114	271	
CS 28			5		□						020854			8115		
CS 29	TOTWRER21		10		TOT. 00000						020864			8116		
CS 30			5		□						020869			8117		
CS 31		NAME	00								020870			8118	272	
CS 32	WRSS2100	CON	50		2100-000	2101-000	2102-000	2103-000	2104-000		020919			8119		
CS 33	WRSS2105		50		□ 2105-000	2106-000	2107-000	2108-000	2109-000		020969			8120	273	
CS 34			5		□						020974			8121		
CS 35	TOTSK21		10		TOT. 00000						020984			8122		
CS 36			5		□						020989			8123		
CS 37	ERRSEL21		4		0000						020993			8124	274	
CS 38	TTCERMSG21		6		00000						020999			8125		
CS 39	RD321		3								021002			8126		
CS 40			1		□						021003			8127		
CS 41	FIVESK21		17		5 SKIPS TAPE 0000						021020			8128		
CS 42			1		□						021021			8129		
CS 43		NAME	00								021025			8130		
CS 44	21A1	CON	6		000						021030			8131	275	
CS 45	21A2		8		000						021038			8132		
CS 46	21A4		8		000						021046			8133		
CS 47	21AA		8		000						021054			8134		
CS 48	21AB		8		000						021062			8135		

CT	01	2181	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CT	01	2181		8		000						021070				8136		
CT	02	2182		8		000						021078				8137		
CT	03	2184		8		000						021086				8138	276	
CT	04	218A		8		000						021094				8139		
CT	05	218B		8		000						021102				8140		
CT	06			1	□							021103				8141		
CT	07		TITLE				CONSTANTS FOR CH 22 WR PROGRAM									8201		
CT	08															8202		
CT	09	TAPETBL22	NAME	00												8203		
CT	10	TP2200	RCD	1												8204		
CT	11															8205		
CT	12		CON	5	□											8206	277	
CT	13	RECCTR22		40			NUMBER OF RECORDS WRITTEN - VARIABLE									8207		
CT	14	VARIABLE22		5												8208		
CT	15			10			FIXED									8209		
CT	16	FIXED22		5												8210	278	
CT	17			1	□											8211		
CT	18		NAME	00												8212		
CT	19	TEMWR2200	CON	50		2200-000	2201-000	2202-000	2203-000	2204-000		021225				8213	279	
CT	20	TEMWR2205		50	□	2205-000	2206-000	2207-000	2208-000	2209-000		021274				8214	280	
CT	21			5	□							021324				8215		
CT	22	TOTWRER22		10		TOT. 00000						021329				8216		
CT	23			5	□							021339				8217		
CT	24		NAME	00												8218	281	
CT	25	WRSS2200	CON	50		2200-000	2201-000	2202-000	2203-000	2204-000		021345				8219		
CT	26	WRSS2205		50	□	2205-000	2206-000	2207-000	2208-000	2209-000		021394				8220	282	
CT	27			5	□							021444				8221		
CT	28	TOTSK22		10		TOT. 00000						021449				8222		
CT	29			5	□							021459				8223		
CT	30	ERRSEL22		4		0000						021464				8224	283	
CT	31	TTCERMSG22		6		00000						021468				8225		
CT	32	RD322		3								021474				8226		
CT	33			1	□							021477				8227		
CT	34	FIVESK22		17		5 SKIPS TAPE 0000						021478				8228		
CT	35			1	□							021495				8229		
CT	36		NAME	00												8230		
CT	37	22A1	CON	6		000						021500				8231	284	
CT	38	22A2		8		000						021505				8232		
CT	39	22A4		8		000						021513				8233		
CT	40	22AA		8		000						021521				8234		
CT	41	22AB		8		000						021529				8235		
CT	42	22B1		8		000						021537				8236		
CT	43	22B2		8		000						021545				8237		
CT	44	22B4		8		000						021553				8238	285	
CT	45	22BA		8		000						021561				8239		
CT	46	22BB		8		000						021569				8240		
CT	47			1	□							021577				8241		
CT	48		TITLE				CONSTANTS FOR CH 23 WRITE PROGRAM									8250		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
CU 01		NAME	00					021580		8251	
CU 02	TAPETBL23	RCD	1					021580		8252	
CU 03	TP2300		4					021584		8253	
CU 04			45					021629		8254	
CU 05		CON	5	□				021634		8255	286
CU 06	RECCTR23		40		NUMBER OF RECORDS WRITTEN - VARIABLE			021674		8256	
CU 07	VARIABLE23		5					021679		8257	
CU 08			10		FIXED			021689		8258	
CU 09	FIXED23		5					021694		8259	287
CU 10			1	□				021695		8260	
CU 11		NAME	00					021700		8261	
CU 12	TEMWR2300	CON	50	2300-000	2301-000	2302-000	2303-000	2304-000	021749	8262	288
CU 13	TEMWR2305		50	□ 2305-000	2306-000	2307-000	2308-000	2309-000	021799	8263	289
CU 14			5	□				021804		8264	
CU 15	TOTWRER23		10	TOT. 00000				021814		8265	
CU 16			5	□				021819		8266	
CU 17		NAME	00					021820		8267	290
CU 18	WRSS2300	CON	50	2300-000	2301-000	2302-000	2303-000	2304-000	021869	8268	
CU 19	WRSS2305		50	□ 2305-000	2306-000	2307-000	2308-000	2309-000	021919	8269	291
CU 20			5	□				021924		8270	
CU 21	TOTSK23		10	TOT. 00000				021934		8271	
CU 22			5	□				021939		8272	
CU 23	ERRSEL23		4	0000				021943		8273	292
CU 24	TTCEMSG23		6	00000				021949		8274	
CU 25	RD323		3					021952		8275	
CU 26			1	□				021953		8276	
CU 27	FIVESK23		17	5 SKIPS TAPE 0000				021970		8277	
CU 28			1	□				021971		8278	
CU 29		NAME	00					021975		8279	
CU 30	23A1	CON	6	000				021980		8280	293
CU 31	23A2		8	000				021988		8281	
CU 32	23A4		8	000				021996		8282	
CU 33	23AA		8	000				022004		8283	
CU 34	23AB		8	000				022012		8284	
CU 35	23B1		8	000				022020		8285	
CU 36	23B2		8	000				022C28		8286	
CU 37	23B4		8	000				022036		8287	294
CU 38	23BA		8	000				022044		8288	
CU 39	23BB		8	000				022052		8289	
CU 40			1	□				022053		8290	
CU 41		NAME	00					022055		8291	
CU 42	RESETCTRS	CON	46	000	000	000	000	000	022100	3292	295
CU 43			32	000	000	000	000	000	022132	8293	296
CU 44		TITLE		CONSTANTS FOR READ PROGRAM						8401	
CU 45		NAME	00							8402	
CU 46	TMPPRD20	CON	50	2000-000	2001-000	2002-000	2003-000	2004-000	022184	8403	297
CU 47	TMPPRD20A		50	□ 2005-000	2006-000	2007-000	2008-000	2009-000	022234	8404	298

INDEX	NAME	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
	CV 01		05						022239				8405		
	CV 02	TMPRD21	50		2100-000	2101-000	2102-000	2103-000	2104-000	022289			8406	299	
	CV 03	TMPRD21A	50		2105-000	2106-000	2107-000	2108-000	2109-000	022339			8407	300	
	CV 04		05						022344				8408		
	CV 05	TMPRD22	50		2200-000	2201-000	2202-000	2203-000	2204-000	022394			8409	301	
	CV 06	TMPRD22A	50		2205-000	2206-000	2207-000	2208-000	2209-000	022444			8410	302	
	CV 07		05						022449				8411		
	CV 08	TMPRD23	50		2300-000	2301-000	2302-000	2303-000	2304-000	022499			8412	303	
	CV 09	TMPRD23A	50		2305-000	2306-000	2307-000	2308-000	2309-000	022549			8413		
	CV 10		05						022554				8414		
	CV 11	TOTTMPRD	30		TOTAL NUMBER OF RETRYS	00000			022584				8415	304	
	CV 12		05		**				022589				8416		
	CV 13	FXNORCWR	05						022594				8417		
	CV 14	SST2ORDIN	05		00000				022599				8418		
	CV 15	SAVECOUNT0	05		00000				022604				8420		
	CV 16		NAME	00					022605				8421		
	CV 17	RESETRDCTR	RCD	5					022609				8422		
	CV 18			4 50					023059				8422A		
	CV 19		NAME	00					023060				8423		
	CV 20	SAVESEL20	CON	10	DRIVE				023069				8424	305	
	CV 21			05	■				023074				8425		
	CV 22	SAVEREC20		05					023079				8426		
	CV 23			05	■				023084				8427		
	CV 24	RDTW020		05					023089				8430		
	CV 25			05	**■				023094				8431		
	CV 26	SAVELNGTH0		05	00000				023099				8432		
	CV 27			05	■				023104				8433		
	CV 28	SAVECOMP20		05					023109				8434		
	CV 29			05	■				023114				8435		
	CV 30	SAVEGOOD20		05	2				023119				8436		
	CV 31			05	■				023124				8437	306	
	CV 32	GOODC		01	C				023125				8440		
	CV 33	GOODB		01	B				023126				8441		
	CV 34	GOODA		01	A				023127				8442		
	CV 35	GOOD8		01	8				023128				8443		
	CV 36	GOOD4		01	4				023129				8444		
	CV 37	GOOD2		01	2				023130				8445		
	CV 38	GOOD1		01	1				023131				8446		
	CV 39			03	■				023134				8447		
	CV 40	BADC		01	C				023135				8448		
	CV 41	BADB		01	B				023136				8449		
	CV 42	BADA		01	A				023137				8450		
	CV 43	BAD8		01	8				023138				8451		
	CV 44	BAD4		01	4				023139				8452		
	CV 45	BAD2		01	2				023140				8453		
	CV 46	BAD1		01	1				023141				8454		
	CV 47			03	■				023144				8455		
	CV 48	DROPPED		02	DO				023146				8456		
	CV 49			03	■				023149				8457		
	CV 50	PICKED		02	PO				023151				8458		
	CV 51			03	■				023154				8459		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	- -	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CW 01	GOODCHADD		05						023159				8460		
CW 02			05	□					023164				8461		
CW 03	BADCHADD		05						023169				8462		
CW 04			05	□					023174				8463		
CW 05		TITLE				CHANNEL 21 READ PROGRAM CONSTANTS							8464		
CW 06		NAME	00						023175				8465		
CW 07	SST21RDIN	CON	05	00000					023179				8466		
CW 08	SAVECOUNT1		05	00000					023184				8468	307	
CW 09	SAVESEL21		10	DRIVE					023194				8469		
CW 10			05	□					023199				8470		
CW 11	SAVEREC21		05						023204				8471		
CW 12			05	□					023209				8472		
CW 13	RDTW021		05						023214				8473		
CW 14			05	*□					023219				8474		
CW 15	SAVELNGTH1		05	00000					023224				8475		
CW 16			05	□					023229				8476		
CW 17	SAVECOMP21		05	3					023234				8477		
CW 18			05	□					023239				8478		
CW 19	SAVEGOOD21		05	2					023244				8479	308	
CW 20			05	□					023249				8480		
CW 21		TITLE				CHANNEL 22 READ PROGRAM CONSTANTS							8481		
CW 22		NAME	00						023250				8482		
CW 23	SST22RDIN	CON	05	00000					023254				8483		
CW 24	SAVECOUNT2		05	00000					023259				8485		
CW 25	SAVESEL22		10	DRIVE					023269				8486		
CW 26			05	□					023274				8487		
CW 27	SAVEREC22		05						023279				8488		
CW 28			05	□					023284				8489		
CW 29	RDTW022		05						023289				8490		
CW 30			05	*□					023294				8491		
CW 31	SAVELNGTH2		05	00000					023299				8492		
CW 32			05	□					023304				8493	309	
CW 33	SAVECOMP22		05	4					023309				8494		
CW 34			05	□					023314				8495		
CW 35	SAVEGOOD22		05	2					023319				8496		
CW 36			05	□					023324				8497		
CW 37		TITLE				CHANNEL 23 READ PROGRAM CONSTANTS							8501		
CW 38		NAME	00						023325				8502		
CW 39	SST23RDIN	CON	05	00000					023329				8503		
CW 40	SAVECOUNT3		05	00C0C					023334				8505		
CW 41	SAVESEL22		10	DRIVE					023344				8506		
CW 42			05	□					023349				8507		
CW 43	SAVEREC23		05						023354				8508		
CW 44			05	□					023359				8509		
CW 45	RDTW023		05						023364				8510	310	
CW 46			05	*□					023369				8511		
CW 47	SAVELNGTH3		05	00000					023374				8512		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CX 01			05	□						023379				8513		
CX 02	SAVECOMP23		05	4						023384				8514		
CX 03			05	□						023389				8515		
CX 04	SAVEGOOD23		05	2						023394				8516		
CX 05			05	□						023399				8517		
CX 06	SSTSAVE		02	00		CONSTANT FOR SST ROUTINE ALL CHANS.				023401				8518		
CX 07			03							023404				8519		
CX 08	TOTBADCHAR		20		TOTAL BAD CHARS 0000					023424				8520	311	
CX 09			1	□						023425				8521		
CX 10	CORRTHREE		33		CORRECTED 1ST TO 3RD RETRY'S 00000					023458				8522		
CX 11			1	□						023459				8523		
CX 12	CORRNINE		33		CORRECTED 4TH TO 9TH RETRY'S 00000					023492				8524	312	
CX 13			1	□						023493				8525		
CX 14		TITLE			MASTER RECORD FIELD									9501		
CX 15	LASN				@25000					025000				9502		
CX 16	CON		50		00000N0054000EM1V &39F25 2Z-K G.3467 G123 * * G#					025049				9503	313	
CX 17			50		*2 NG1WGHE /G52#-2A220L DL42C MIU K83G22436J1V&6L					025099				9504	314	
CX 18			50		IG\$ G4V0817&X1\$ G53.326 * G /GGG33G09 D03B.6WGS23.					025149				9505	315	
CX 19			50		QD GL 50.MO \$.RG/G3G3.NGG5.S3. 583G324 G2C7@EGRL					025199				9506	316	
CX 20			50		5. 0141V2B GK92D 39&WG02 7D 41X1 *33A6G6T8*36J6G8					025249				9507	317	
CX 21			50		-082 L7-M 6G# WGJ5 WGG=0.3*M3DNGL7-H&P,20K9 T.					025299				9508		
CX 22			50		6V08*32 7&QA0HA38&ONGU584 T. D02717-J2Y-*8 T9#A1					025349				9509	318	
CX 23			50		T9A3821T9E &73EG..V2C 6G0J6GG39#DL #G/GA76G\$. G#DO					025399				9510	319	
CX 24			50		G\$. GZD 39D G G 4 G1,2ZC G4 /GEG GL6 U34X48. - M					025449				9511	320	
CX 25			50		7-G*4 G38.WG .@-03#- ZB.NGGGWGB..7@# WG JY/GB9#.@F					025499				9512	321	
CX 26			50		43GU Y RNG.P,4 T9 D5 GZ#D08 GN1P&2Y- J51GC41WGIL3					025549				9513	322	
CX 27			50		88 GY/GZ-I-U7B.Y/GU ZB.6X44X4X4&P4 Y\$.Y,603GG7EG4					025599				9514		
CX 28			50		1 \$.0886J2Y\$.590 G158.C JOJZ# .I03G3C G-G6X4225 S					025649				9515	323	
CX 29			50		39EGP\$.Z&WGK&GY* G- G G42D GC6T92A6G@-K.U6QEG655					025699				9516	324	
CX 30	LASN				@25700					025700				9518		
CX 31	CON		50		00000N7053300C39EGP*.Z&WGK GY* G-1U73@C 872GGD G1					025749				9519	325	
CX 32			50		1-&3B8&3.4-K81 U 72ZD&21X2 6X3 D.K. GRH@@B.IIG.D1					025799				9520	326	
CX 33			50		Q@EG U &5 .1-2F&0H@ /G5&227R08K9& G NG1\$ GSY*7D P					025849				9521	327	
CX 34			50		P@G,3G1R06M1RIM1Q&X1 1QEG7-01 7-L *342 G&6GIV 315					025899				9522		
CX 35			50		. &Y.2YD 01G /GX3E -- 6WGG6G 7@B G2- GY,41 6U 5					025949				9523	328	
CX 36			50		&Y.&S4 2250.T8 WG...1WG@A3 G- D-P\$92#-38 X1 P .C					025999				9524	329	
CX 37	LASN				@26000					026000				9524A		
CX 38	CON		50		000000005300018.59&22Y&3K.H&T86INGT. JOL -SY U .DO					026049				9525	330	
CX 39			50		*2 NG1WGHE /G52#-2A220L DL42C MIU K83G22436J1V&6L					026099				9601	331	
CX 40			50		IG\$ G4V0817&X1\$ G53.326 * G /GGG33G09 D03B.6WGS23.					026149				9602	332	
CX 41			50		QD GL 50.MO \$.RG/G3G3.NGG5.S3. 583G324 G2C7@EGRL					026199				9603		
CX 42			50		5. 0141V2B GK92D 39&WG02 7D 41X1 *33A6G6T8*36J6G8					026249				9604	333	
CX 43			50		-082 L7-M 6G# WGJ5 WGG=0.3*M3DNGL7-H&P,20K9 T.					026299				9605	334	
CX 44	LASN				@26300					026300				9607		
CX 45	CON		50		0000003052700JHA38&ONGU584 T. D02717-J2Y-*8 T9#A1					026349				9608	335	
CX 46			50		T9A3821T9E &73EG..V2C 6G0J6GG39#DL #G/GA76G\$. G#DO					026399				9609	336	
CX 47			50		G\$. GZD 39D G G 4 G1,2ZC G4 /GEG GL6 U34X48. - M					026449				9610	337	
CX 48			50		7-G*4 G38.WG .@-03#- ZB.NGGGWGB..7@# WG JY/GB9#.@F					026499				9611		

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	4-CHAN	- -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER	REF
CY 01		LASN			@26500					026500			9613	338	
CY 02		CON	50		0000005052500G T9 05 GZ#008 GN1P&2Y- JS1QC41WGIL3					026549			9614		
CY 03			50		88 GY/GZ-I-U7B.Y/GU ZB.6X44X4X4&P4 Y\$.Y,603GG7EG4					026599			9615	339	
CY 04		LASN			@26600					026600			9617		
CY 05		CON	50		0000006052400A90 G158.C JOJZ# .I03G3C G-G6X4225 S					026649			9618	340	
CY 06			50		39EGP\$.Z&WGK&GY* G- G 442D GC6T92A6G@-K.U6QEG655					026699			9619	341	
CY 07			50		1-6388&3.4-K81 U 72ZD&21X2 6X3 DK. GRH@@@B.IIG.D1					026749			9620	342	
CY 08			50		Q@EG U &5 ,1-2F&OH@ /G5&227R08K9& G NG1\$ GSY*7D P					026799			9621		
CY 09			50		PEG,3G1R06M1RIM1Q&X1 1QEG7-01 7-L *342 G&G1V 315					026849			9622	343	
CY 10			50		. &Y,2YD 01G /GX3E -- 6WGG6G 7@B G2- GY,41 SU 5					026899			9623	344	
CY 11			50		&Y.&S4 2250.T8 WG--1WG@A3 G- D-P\$924-38 X1 P .C					026949			9624	345	
CY 12			50		.2 NG1WGHE /G52#-2A220L HL42C MIU KB3G22436J1VG6L					026999			9625	346	
CY 13		LASN			@27000					027000			9701		
CY 14		CON	50		0000CP0052000H G53.326 * G /GGG33G09 D03B.6WGS23.					027049			9702	347	
CY 15			50		QD GL 50.MO \$,RG/G3G3.NGG5.S3. 583G324 G2C7@EGRL					027099			9703		
CY 16			50		5. 0141V2B GK92D 39&WG02 7D 41X1 *33A6G6T8*36J6G8-					027149			9704	348	
CY 17			50		-082 L7-M 6G# WGJS WGG-0.3.M3@NGL7-H&P,20K9 T.					027199			9705	349	
CY 18			50		6V08*32 76QA0HA38&ONGU584 T. D02717-J2Y-*3 T9#A1					027249			9706	350	
CY 19			50		T9A3821T9E &73EG--V2C 6GOJ6GG39#ML #G/GA76G\$. G#D0					027299			9707	351	
CY 20		LASN			@27300					027300			9709		
CY 21		CON	50		0000CP3051700BG 4 G1.2ZC G4 /GEG GL6 U34X48. - M					027349			9710	352	
CY 22			50		7-G*4 G38.WG .@-034- ZB.NGGGWGB.7@# WG JY/GB9#.OF					027399			9711		
CY 23			50		43&U Y RNG.P,4 T9 05 GZ#008 GN1P&2Y- JS1QC41WGIL3					027449			9712	353	
CY 24			50		88 GY/GZ-I-U7B.Y/GU ZB.6X44X4X4&P4 Y\$.Y,603GG7EG4					027499			9713	354	
CY 25			50		1 \$.0386J2Y\$.590 G158.C JOJZ# .I03G3C G-G6X4225 S					027549			9714	355	
CY 26			50		39EGP\$.Z&WGK&GY* G- G 442D GC6T92A6G@-K.U6QEG655					027599			9715	356	
CY 27		LASN			@27600					027600			9717		
CY 28		CON	50		0000CP6051400D39EGP*.Z&WGK GY* G-1U73@C &72G6D G1					027649			9718	357	
CY 29			50		1-6388&3.4-K81 U 72ZD&21X2 6X3 DK. GRH@@@B.IIG.D1					027699			9719		
CY 30			50		Q@EG U &5 ,1-2F&OH@ /G5&227R08K9& G NG1\$ GSY*7D P					027749			9720	358	
CY 31			50		PEG,3G1R06M1RIM1Q&X1 1QEG7-01 7-L *342 G&G1V 315					027799			9721	359	
CY 32			50		. &Y,2YD 01G /GX3E -- 6WGG6G 7@B G2- GY,41 SU 5					027849			9722	360	
CY 33			50		&Y.&S4 2250.T8 WG--1WG@A3 G- D-P\$924-38 X1 P .C					027899			9723	361	
CY 34			50		,2 NG1WGHE /G52#-2A220L HL42C MIU KB3G22436J1VG6L					027949			9724	362	
CY 35			50		6V0817G0817&X1 G53.326 * G /CGG33G09 D03B.6WGS23.					027999			9725		
CY 36			50		WOG157CGH1000D\$.RG/G3G3.NGG5.S3. 583G324 G2C7@EGRL					028049			9802	363	
CY 37			50		E. 0141V2B GK92D 39&WG02 7D 41X1 *33A6G6T8*36J638					028099			9803	364	
CY 38			50		-082 L7-M 6G# WGJS WGG-0.3.M3@NGL7-H&P,20K9 T.					028149			9804	365	
CY 39			50		6V08*32 76QA0HA38&ONGU584 T. D02717-J2Y-*3 T9#A1					028199			9805	366	
CY 40			50		T9A3821T9E &73EG--V2C 6GOJ6GG39#ML #G/GA76G\$. G#D0					028249			9806	367	
CY 41			50		GE. GZD 39D G G 4 G1.2ZC G4 /GEG GL6 U34X48. - M					028299			9807		
CY 42			50		7-G*4 G38.WG .@-034- ZB.NGGGWGB.7@# WG JY/GB9#.OF					028349			9808	368	
CY 43			50		43&U Y RNG.P,4 T9 05 GZ#008 GN1P&2Y- JS1QC41WGIL3					028399			9809	369	
CY 44			50		88 GY/GZ-I-U7B.Y/GU ZB.6X44X4X4&P4 Y\$.Y,603GG7EG4					028449			9810	370	
CY 45			50		1 \$.0386J2Y\$.590 G158.C JOJZ# .I03G3C G-G6X4225 S					028499			9811	371	
CY 46			50		39EGP\$.Z&WGK&GY* G- G 442D GC6T92A6G@-K.U6QEG655					028549			9812	372	
CY 47			50		1-6388&3.4-K81 U 72ZD&21X2 6X3 DK. GRH@@@B.IIG.D1					028599			9813		
CY 48			50		Q@EG U &5 ,1-2F&OH@ /G5&227R08K9& G NG1\$ GSY*7D P					028649			9814	373	
CY 49			50		PEG,3G1R06M1RIM1Q&X1 1QEG7-01 7-L *342 G&G1V 315					028699			9815	374	

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CZ 01			50		• GY.2YD 01G /GX3E -- SWGG6G 7@B G2- GY.41 6U 5			028749			9816	375		
CZ 02			50		GY.4S4 2250.T8 WG..1WG@@A3 G- D-P\$92#-38 X1 P .C			028799			9817	376		
CZ 03			50		.2 NG1WGHE /G52#-2A220L DL42C MIU K83G22436J1VG6L			028849			9818	377		
CZ 04			50		IGS.GAV0817GX1S.G53.326 * G /GGG33D09 03B.6VGS23.			028899			9819			
CZ 05			50		QD GL 50 MO S.RG/G3G3.NGG5.S3. 5836324 G2CT@EGRL			028949			9820	378		
CZ 06		LASN			028950			028950			9821			
CZ 07		CON	50		0000009550050D2P 39WG02 7D 41X1 *33A6G6T8*36J6G8			028999			9821A	379		
CZ 08			10		D #			029009			9822A			
CZ 09		TITLE			WRITE AND READ AREA FOR CH 20						9901			
CZ 10		LASN			e30000			030000			9902			
CZ 11		NAME	00					030000			9903			
CZ 12	RECN020	CON	5		00001			030004			9904	380		
CZ 13	REC20	RCD	0					030004			9905			
CZ 14			39 95					033999			9906			
CZ 15		CON	5		D #			034004			9907	381		
CZ 16		TITLE			WRITE AND READ AREA FOR CH 21						9908			
CZ 17		LASN			e35000			035000			9909			
CZ 18		NAME	00					035000			9910			
CZ 19	RECN021	CON	5		00001			035004			9911	382		
CZ 20	REC21	RCD	0					035004			9912			
CZ 21			39 95					038999			9913			
CZ 22		CON	5		D #			039004			9914	383		
CZ 23		TITLE			WRITE AND READ AREA FOR CH 22						9915			
CZ 24		LASN			e40000			040000			9916			
CZ 25		NAME	00					040000			9917			
CZ 26	RECN022	CON	5		00001			040004			9918	384		
CZ 27	REC22	RCD	0					040004			9919			
CZ 28			39 95					043999			9920			
CZ 29		CON	5		D #			044004			9921	385		
CZ 30		TITLE			WRITE AND READ AREA FOR CH 23						9922			
CZ 31		LASN			e45000			045000			9923			
CZ 32		NAME	00					045000			9924			
CZ 33	RECN023	CON	5		00001			045004			9925	386		
CZ 34	REC23	RCD	0					045004			9926			
CZ 35			39 95					048999			9927			
CZ 36		CON	5		D #			049004			9928	387		
CZ 37			95					049099			9929	388		
CZ 38		LASN			e50000			050000			9930			

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM 4-CHAN	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
DA01							THE FOLLOWING ENTRIES ARE CLASS A SUBROUTINES							
DA02		PRTST										001		
DA03	IOSAS	IORAS										002		
DA04	XACB	XXACB										003		
DA05	XAC	XXACC										004		
DA06	XACC	XXACD										005		

~~53139~~ ~~505~~ ~~702~~ ~~53749~~
→ 0LA * 02 53749

