

TITLE CR03B FOR SYSTEM EXERCISER

/3-3-71

/ED HILTON

EBREL

/ERRORS,

/#1 API ENTRY AND NO CR03 FLAG

/#2 CARD READER NOT READY ON INITIALIZATION

/#3 NO COLUMN READY ON CR03 FLAG AND NO ERROR FLAG

/#4 ERROR FLAG BUT NO CAUSE

/#5 INCORRECT DATA

/#6 HOPPER EMPTY TOO EARLY

/#7 NO PASS

/#10 NO HOPPER EMPTY AFTER A MULTIPLE OF 80 CARDS

/#11 BAD DATA

706722	A	CRSC=706722	/SELECT AND READ A CARD
706712	A	CROR=706712	/LOAD DATA AND STATUS INTO AC
706704	A	CRCS=706704	/CLEAR STATUS REGISTER AND DATA BUFFER
706721	A	CRSI=706721	/SKIP ON CARD READER FLAG
706734	A	CRLA=706734	/LOAD DATA BUFFER AND STATUS REGISTER
707702	A	EEM=707702	
707764	A	EBA=707764	
705501	A	SPI=705501	
703344	A	DBR=703344	

00000	R	600015	A	UODSW	600015	
00001	R	000000	A		0	/BIT 17=1 FOR NO DATA ERROR PRINTOUT
00002	R	000000	A		0	/MULTIPLES OF CARD DECKS
00003	R	000000	A		0	
00004	R	000107	R	.DSA	SERV	
00005	R	000032	R	.DSA	INIT	
00006	R	032260	A	.SIXBT	CR03B	
00007	R	630240	A			
00010	R	001000	A		001000	/CHAIN MODE MASK
00011	R		A	.BLOCK	7	

00020	R	000000	A	SYSERR	0	/ERROR INDICATOR
00021	R	000000	A	ERWC	0	/ERROR TABLE WORD COUNT
00022	R	000000	A	ERCODE	0	/ERROR CODE
00023	R	000000	A		0	
00024	R	000000	A		0	
00025	R	000000	A		0	
00026	R	000000	A		0	
00027	R	000000	A		0	
00030	R	000000	A		0	
00031	R	000000	A		0	

EJECT

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00032 R 000000 A INIT 0 /INITIALIZATION ENTRANCE
00033 R 707764 A EBA
00034 R 707702 A EEM
00035 R 200032 R LAC INIT
00036 R 040107 R DAC SERV
00037 R 200675 R LAC (SYSERR) /CLEAR ERROR TABLE,
00040 R 040417 R DAC TEMP
00041 R 777766 A LAW =12
00042 R 040420 R DAC CNT
00043 R 160417 R DZM* TEMP
00044 R 440417 R ISZ TEMP
00045 R 440420 R ISZ CNT
00046 R 600043 R JMP ,=3
00047 R 140422 R DZM HOLSW
00050 R 140434 R DZM FSTERR
00051 R 200002 R LAC UODSW+2
00052 R 741200 A SNA
00053 R 600060 R JMP ,+5
00054 R 740001 A CMA
00055 R 340676 R TAD (1)
00056 R 040420 R DAC CNT
00057 R 600062 R JMP ,+3
/
00060 R 777777 A LAW =1
00061 R 040420 R DAC CNT
/
00062 R 750000 A CLA
00063 R 340677 R TAD (=120)
00064 R 440420 R ISZ CNT
00065 R 600063 R JMP ,=2
00066 R 040426 R DAC CRDCNT
00067 R 440426 R ISZ CRDCNT
00070 R 100171 R JMS HOLD /CHECK HOLD SWITCH
00071 R 706704 A CRCS /CLEAR STATUS REGISTER
00072 R 706712 A CROR /READ STATUS AND CHECK FOR OK
00073 R 741100 A SPA
00074 R 600144 R JMP NOTRDY /NOT READY YET,
00075 R 200700 R LAC (BINC0D) /SET UP DATA TABLE POINTER
00076 R 040423 R DAC DATAP
00077 R 040424 R DAC DATAP1
00100 R 140425 R DZM NOTON
00101 R 777660 A LAW =120
00102 R 040427 R DAC CNT80 /TOTAL OF 80 CARDS BEFORE RESETTING BUFFER POINTER
00103 R 200701 R LAC (RCOLM) /SET UP DIST SWITCH FOR READ A COLUMN
00104 R 040430 R DAC DISTSW
00105 R 706722 A CRSC /SELECT AND READ
00106 R 600137 R JMP EXIT
,EJECT

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00107	R	000000	A	SERV	0		/SERVICE ENTRANCE
00110	R	707764	A		EBA		
00111	R	707702	A		EEM		
00112	R	040431	R		DAC	SAVAC	
00113	R	706712	A		CROR		/READ STATUS
00114	R	040432	R		DAC	STATUS	
00115	R	705512	A		RPL		/READ API STATUS
00116	R	740100	A		SMA		
00117	R	600123	R		JMP	NOAPI	
00120	R	706721	A		CRSI		
00121	R	600164	R		JMP	ER1	/API INTERRUPT BUT NO FLAG
00122	R	120430	R		JMS#	DISTSW	
					/		
00123	R	706721	A	NOAPI	CRSI		/FLAG UP
00124	R	600126	R		JMP	NOFLAG	
00125	R	120430	R		JMS#	DISTSW	
					/		
00126	R	200434	R	NOFLAG	LAC	FSTERR	
00127	R	741200	A		SNA		
00130	R	600133	R		JMP	,+3	/NO ERROR BEING PRINTED
00131	R	140434	R		DZM	FSTERR	
00132	R	620402	R		JMP#	HOLDER	/GO BACK AND READ A CARD
					/		
00133	R	200422	R		LAC	HOLSW	
00134	R	750201	A		SZA,CLA,CMA		
00135	R	600172	R		JMP	HOLD+1	/HOLD SWITCH SET
00136	R	600142	R		JMP	EXIT,1	
					/		
00137	R	705512	A	EXIT	RPL		
00140	R	751100	A		SPA,CLA		
00141	R	200431	R		LAC	SAVAC	
00142	R	703344	A	EXIT,1	DBR		
00143	R	620107	R		JMP#	SERV	
					/		
00144	R	200425	R	NOTRDY	LAC	NOTON	/CARD READER NOT READY ON INITIALIZATION
00145	R	741200	A		SNA		
00146	R	600152	R		JMP	NOT,1	
00147	R	777771	A		LAW	=7	
00150	R	040020	R		DAC	SYSERR	
00151	R	600137	R		JMP	EXIT	
					/		
00152	R	777775	A	NOT,1	LAW	=3	/CARD READER NOT READY ON INITIALIZATION
00153	R	040020	R		DAC	SYSERR	
00154	R	040425	R		DAC	NOTON	
00155	R	200702	R		LAC	(2)	
00156	R	040022	R		DAC	ERCODE	
00157	R	777776	A	NOT,2	LAW	=2	
00160	R	040021	R		DAC	ERWC	
00161	R	706712	A		CROR		
00162	R	040023	R		DAC	ERCODE+1	
00163	R	600137	R		JMP	EXIT	
					,EJECT		

00164	R	200676	R	ER1	LAC	(1)	/API ENTRY AND NO CR03 FLAG
00165	R	040022	R		DAC	ERCODE	
00166	R	777777	A	ER1,1	LAW	=1	
00167	R	040020	R		DAC	SYSERR	
00170	R	600157	R		JMP	NOT,2	
					/		
00171	R	000000	A	HOLD	0		/HOLD SWITCH SET?
00172	R	750004	A		LAS		
00173	R	500703	R		AND	(1000)	
00174	R	741200	A		SNA		
00175	R	600202	R		JMP	HOLD,1	
00176	R	777773	A		LAW	=2	
00177	R	040020	R		DAC	SYSERR	
00200	R	040422	R		DAC	HOLSW	
00201	R	600137	R		JMP	EXIT	
					/		
00202	R	140422	R	HOLD,1	OZM	HOLSW	
00203	R	620171	R		JMP*	HOLD	
					/		
00204	R	000000	A	RCOLM	0		
00205	R	200432	R		LAC	STATUS	
00206	R	741100	A		SPA		
00207	R	600253	R		JMP	CHKERR	/SOME ERROR
00210	R	200426	R		LAC	CRDCNT	
00211	R	741200	A		SNA		
00212	R	600333	R		JMP	NHPEMP	/NO HOPPER EMPTY WITH CARD COUNT = 0
00213	R	200432	R		LAC	STATUS	
00214	R	742020	A		RTR		/NO ERROR CHECK DATA
00215	R	741400	A		SZL		
00216	R	600341	R		JMP	CHK,4	/END OF CARD
00217	R	740100	A		SMA		
00220	R	600373	R		JMP	ERR3	/NO COLUMN READY
00221	R	500704	R		AND	(7777)	/MASK OFF DATA
00222	R	040433	R		DAC	DATA	
00223	R	220423	R		LAC*	DATAP	/CHECK GOOD DATA
00224	R	540433	R		SAD	DATA	
00225	R	600336	R		JMP	CHK,2	/DATA OK, EXIT
					/		
00226	R	200001	R		LAC	UODSW*1	
00227	R	740020	A		RAR		
00230	R	741400	A		SZL		
00231	R	600336	R		JMP	CHK,2	/DON'T PRINT DATA ERROR
					,EJECT		

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00232 R 200434 R RCOL,1 LAC FSTERR /ERROR IN DATA AREA
00233 R 750201 A SZACL:CLA:DMA
00234 R 600336 R JMP CHK,2 /NOT FIRST ERROR, EXIT
00235 R 040434 R DAC FSTERR /FIRST ERROR, SET FLAG.
00236 R 220423 R LAC* DATAP /PRINT ERROR
00237 R 040024 R DAC ERCODE+2 /GOOD DATA
00240 R 200433 R LAC DATA /BAD DATA
00241 R 040025 R DAC ERCODE+3
00242 R 200705 R LAC (5)
00243 R 040022 R DAC ERCODE
00244 R 200432 R LAC STATUS
00245 R 040023 R DAC ERCODE+1
00246 R 777774 A LAW =4
00247 R 040021 R DAC ERWC
00250 R 777777 A RCOL,2 LAW =1
00251 R 040020 R DAC SYSERR
00252 R 600336 R JMP CHK,2
/
00253 R 500706 R CHKERR AND (40000)
00254 R 740200 A SZA
00255 R 600300 R JMP BADDAT /BAD DATA ON READ
00256 R 200432 R LAC STATUS
00257 R 500707 R AND (200000)
00260 R 740200 A SZA
00261 R 600311 R JMP HOPPER /HOPPER EMPTY
00262 R 200432 R LAC STATUS
00263 R 500710 R AND (100000)
00264 R 740200 A SZA
00265 R 600331 R JMP NOPASS /CARD DIDN'T READ
/
00266 R 200711 R LAC (4) /ERROR FLAG BUT NO ERROR
00267 R 040022 R DAC ERCODE
00270 R 200432 R CHK,3 LAC STATUS
00271 R 040023 R DAC ERCODE+1
00272 R 777776 A LAW =2
00273 R 040021 R DAC ERWC
00274 R 777777 A LAW =1
00275 R 040020 R DAC SYSERR
/
/NOW DELAY FOR THE REST OF THE CARD
/
00276 R 100364 R JMS DLYCRD /DELAY FOR FULL CARD
00277 R 600137 R JMP EXIT
,EJECT

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00300 R 200712 R BADDAT LAC (11) /REPORT BAD DATA FLAG
00301 R 040022 R DAC ERCODE /AND GOOD DATA
00302 R 200432 R LAC STATUS
00303 R 040023 R DAC ERCODE+1
00304 R 220423 R LAC* DATAP
00305 R 040024 R DAC ERCODE+2
00306 R 200433 R LAC DATA
00307 R 040025 R DAC ERCODE+3 /NOW EXIT NORMALLY AND
00310 R 600250 R JMP RCOL,2 /TRY AGAIN,
/
00311 R 200426 R HOPEMP LAC CRDCNT /HOPPER EMPTY CHECK
00312 R 740200 A SZ A /CARD COUNT FOR LAST CARD
00313 R 600322 R JMP HPEM,1
/
00314 R 140021 R TERMIN DZM ERWC /OK
00315 R 706704 A CRCS
00316 R 777774 A LAW =4
00317 R 040020 R DAC SYSERR
00320 R 040425 R DAC NOTON
00321 R 600137 R JMP EXIT
/
00322 R 200713 R HPEM,1 LAC (6) /HOPPER EMPTY TOO EARLY
00323 R 040022 R DAC ERCODE
00324 R 200432 R LAC STATUS
00325 R 040023 R DAC ERCODE+1
00326 R 777776 A LAW =2
00327 R 040021 R DAC ERWC
00330 R 600315 R JMP TERMIN+1
/
00331 R 200714 R NOPASS LAC (7) /ERROR 7, NO PASS SO
00332 R 600323 R JMP HPEM,1+1 /TERMINATE WITH DONE STATEMENT
/
00333 R 200715 R NHPEMP LAC (10) /NO HOPPER EMPTY ON 80 CARDS READ
00334 R 040022 R DAC ERCODE
00335 R 600270 R JMP CHK,3
/
00336 R 706704 A CHK,2 CRCS /CLEAR DATA BUFFER
00337 R 440423 R ISZ DATAP
00340 R 600137 R JMP EXIT
/
00341 R 706704 A CHK,4 CRCS
00342 R 440426 R ISZ CRDCNT
00343 R 740000 A NOP
00344 R 200434 R LAC FSTERR
00345 R 740200 A SZ A
00346 R 100402 R JMS HOLDER
00347 R 100171 R JMS HOLD
00350 R 706722 A CRSC /SELECT NEW CARD
00351 R 440424 R ISZ DATAP1
00352 R 200424 R LAC DATAP1
00353 R 040423 R DAC DATAP
00354 R 440427 R ISZ CNT80
00355 R 600137 R JMP EXIT

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00356 R 200700 R          LAC      (BINCOD)
00357 R 040423 R          DAC      DATAP
00360 R 040424 R          DAC      DATAP1
00361 R 777660 A          LAW      =120
00362 R 040427 R          DAC      CNT80
00363 R 600137 R          JMP      EXIT
/
00364 R 000000 A          DLYCRD  0
00365 R 706704 A          CRCS
00366 R 200416 R          LAC      DLYCNT
00367 R 040421 R          DAC      CNT1
00370 R 440421 R          ISZ
00371 R 600370 R          JMP      =1
00372 R 620364 R          JMP*   DLYCRD
/
00373 R 200716 R          ERR3    LAC      (3)
00374 R 040022 R          DAC      ERCODE
00375 R 200432 R          LAC      STATUS
00376 R 040023 R          DAC      ERCODE+1
00377 R 777776 A          LAW      =2
00400 R 040021 R          DAC      ERWC
00401 R 600250 R          JMP      RCOL,2
/
00402 R 000000 A          HOLDER 0
00403 R 200020 R          LAC      SYSERR
00404 R 740200 A          SZA
00405 R 600410 R          JMP      HOLDR1
00406 R 140434 R          DZM      FSTERR
00407 R 620402 R          JMP*   HOLDER
/
00410 R 540717 R          HOLDR1 SAD      (=1)
00411 R 741000 A          SKP
00412 R 740040 A          HLT
00413 R 777776 A          LAW      =2
00414 R 040020 R          DAC      SYSERR
00415 R 600137 R          JMP      EXIT
/
00416 R 500000 A          DLYCNT 500000
00417 R 000000 A          TEMP  0
00420 R 000000 A          CNT    0
00421 R 000000 A          CNT1   0
00422 R 000000 A          HOLSW  0
00423 R 000000 A          DATAP  0
00424 R 000000 A          DATAP1 0
00425 R 000000 A          NOTON  0
00426 R 000000 A          CRDCNT 0
00427 R 000000 A          CNT80  0
00430 R 000000 A          DISTSW 0
00431 R 000000 A          SAVAC  0
00432 R 000000 A          STATUS 0
00433 R 000000 A          DATA  0
00434 R 000000 A          FSTERR 0
          .EJECT

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		/DATA TABLE	/CARD COLUMN
00435	R 000000 A	BINCOD 0	/1
00436	R 000001 A	1	/2
00437	R 000002 A	2	/3
00440	R 000004 A	4	/4
00441	R 000010 A	10	/5
00442	R 000020 A	20	/6
00443	R 000040 A	40	/7
00444	R 000100 A	100	/8
00445	R 000200 A	200	/9
00446	R 000400 A	400	/10
00447	R 001000 A	1000	/11
00450	R 002000 A	2000	/12
00451	R 004000 A	4000	/13
00452	R 001111 A	1111	/14
00453	R 002222 A	2222	/15
00454	R 003333 A	3333	/16
00455	R 004444 A	4444	/17
00456	R 005555 A	5555	/18
00457	R 006666 A	6666	/19
00460	R 007777 A	7777	/20
00461	R 001010 A	1010	/21
00462	R 001212 A	1212	/22
00463	R 001313 A	1313	/23
00464	R 001414 A	1414	/24
00465	R 001515 A	1515	/25
00466	R 001616 A	1616	/26
00467	R 001717 A	1717	/27
00470	R 002020 A	2020	/28
00471	R 002121 A	2121	/29
00472	R 002323 A	2323	/30
00473	R 002424 A	2424	/31
00474	R 002525 A	2525	/32
00475	R 002626 A	2626	/33
00476	R 002727 A	2727	/34
00477	R 003030 A	3030	/35
00500	R 003131 A	3131	/36
00501	R 003232 A	3232	/37
00502	R 003434 A	3434	/38
00503	R 003535 A	3535	/39

EJECT



00504	R	003636	A	3636	/40
00505	R	003737	A	3737	/41
00506	R	004040	A	4040	/42
00507	R	004141	A	4141	/43
00510	R	004242	A	4242	/44
00511	R	004343	A	4343	/45
00512	R	004545	A	4545	/46
00513	R	004646	A	4646	/47
00514	R	004747	A	4747	/48
00515	R	005050	A	5050	/49
00516	R	005151	A	5151	/50
00517	R	005252	A	5252	/51
00520	R	005353	A	5353	/52
00521	R	005454	A	5454	/53
00522	R	005656	A	5656	/54
00523	R	005757	A	5757	/55
00524	R	006060	A	6060	/56
00525	R	006161	A	6161	/57
00526	R	006262	A	6262	/58
00527	R	006363	A	6363	/59
00530	R	006464	A	6464	/60
00531	R	006565	A	6565	/61
00532	R	006767	A	6767	/62
00533	R	007070	A	7070	/63
00534	R	007171	A	7171	/64
00535	R	007272	A	7272	/65
00536	R	007373	A	7373	/66
00537	R	007474	A	7474	/67
00540	R	007575	A	7575	/68
00541	R	007676	A	7676	/70
00542	R	000101	A	0101	/70
00543	R	000202	A	0202	/71
00544	R	000303	A	0303	/72
00545	R	000404	A	0404	/73
00546	R	000505	A	0505	/74
00547	R	000606	A	0606	/75
00550	R	000707	A	0707	/76
00551	R	003210	A	3210	/77
00552	R	000123	A	0123	/78
00553	R	007654	A	7654	/79
00554	R	004567	A	4567	/80

EJECT

/REPEAT CARD BUFFER

00555	R	000000	A	/
00556	R	000001	A	1
00557	R	000002	A	2
00560	R	000004	A	4
00561	R	000010	A	10
00562	R	000020	A	20
00563	R	000040	A	40
00564	R	000100	A	100
00565	R	000200	A	200
00566	R	000400	A	400
00567	R	001000	A	1000
00570	R	002000	A	2000
00571	R	004000	A	4000
00572	R	001111	A	1111
00573	R	002222	A	2222
00574	R	003333	A	3333
00575	R	004444	A	4444
00576	R	005555	A	5555
00577	R	006666	A	6666
00600	R	007777	A	7777
00601	R	001010	A	1010
00602	R	001212	A	1212
00603	R	001313	A	1313
00604	R	001414	A	1414
00605	R	001515	A	1515
00606	R	001616	A	1616
00607	R	001717	A	1717
00610	R	002020	A	2020
00611	R	002121	A	2121
00612	R	002323	A	2323
00613	R	002424	A	2424
00614	R	002525	A	2525
00615	R	002626	A	2626
00616	R	002727	A	2727
00617	R	003030	A	3030
00620	R	003131	A	3131
00621	R	003232	A	3232
00622	R	003434	A	3434
00623	R	003535	A	3535

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00624	R	003636	A	3636
00625	R	003737	A	3737
00626	R	004040	A	4040
00627	R	004141	A	4141
00630	R	004242	A	4242
00631	R	004343	A	4343
00632	R	004545	A	4545
00633	R	004646	A	4646
00634	R	004747	A	4747
00635	R	005050	A	5050
00636	R	005151	A	5151
00637	R	005252	A	5252
00640	R	005353	A	5353
00641	R	005454	A	5454
00642	R	005656	A	5656
00643	R	005757	A	5757
00644	R	006060	A	6060
00645	R	006161	A	6161
00646	R	006262	A	6262
00647	R	006363	A	6363
00650	R	006464	A	6464
00651	R	006565	A	6565
00652	R	006767	A	6767
00653	R	007070	A	7070
00654	R	007171	A	7171
00655	R	007272	A	7272
00656	R	007373	A	7373
00657	R	007474	A	7474
00660	R	007575	A	7575
00661	R	007676	A	7676
00662	R	000101	A	0101
00663	R	000202	A	0202
00664	R	000303	A	0303
00665	R	000404	A	0404
00666	R	000505	A	0505
00667	R	000606	A	0606
00670	R	000707	A	0707
00671	R	003210	A	3210
00672	R	000123	A	0123
00673	R	007654	A	7654
00674	R	004567	A	4567

,EJECT

END UQDSW

000000 R  
00675 R 000020 R #L  
00676 R 000001 A #L  
00677 R 777660 A #L  
00700 R 000435 R #L  
00701 R 000204 R #L  
00702 R 000002 A #L  
00703 R 001000 A #L  
00704 R 007777 A #L  
00705 R 000005 A #L  
00706 R 040000 A #L  
00707 R 200000 A #L  
00710 R 100000 A #L  
00711 R 000004 A #L  
00712 R 000011 A #L  
00713 R 000006 A #L  
00714 R 000007 A #L  
00715 R 000010 A #L  
00716 R 000003 A #L  
00717 R 777777 A #L

SIZE=00721

NO ERROR LINES

BADDAT	00300	R	BINCOO	00435	R	CHKERR	00253	R	CHK,2	00336	R
CHK,3	00270	R	CHK,4	00341	R	CNT	00420	R	CNT1	00421	R
CNT80	00427	R	CRCS	706704	A	CRDCNT	00426	R	CRLA	706734	A
CROR	706712	A	CRSC	706722	A	CRSI	706721	A	DATA	00433	R
DATAP	00423	R	DATAP1	00424	R	DBR	703344	A	DISTSW	00430	R
DLYCNT	00416	R	DLYCRD	00364	R	EBA	707764	A	EEM	707702	A
ERCODE	00022	R	ERR3	00373	R	ERWC	00021	R	ER1	00164	R
ER1,1	00166	R	EXIT	00137	R	EXIT,1	00142	R	FSTERR	00434	R
HOLD	00171	R	HOLDER	00402	R	HOLDR1	00410	R	HOLD,1	00202	R
HOLSW	00422	R	HOPEMP	00311	R	HPER,1	00322	R	INIT	00032	R
NHPEMP	00333	R	NOAPI	00123	R	NOFLAG	00126	R	NOPASS	00331	R
NOTON	00425	R	NOTRDY	00144	R	NOT,1	00152	R	NOT,2	00157	R
RCOLM	00204	R	RCOL,1	00232	R	RCOL,2	00250	R	SAVAC	00431	R
SERV	00107	R	SPI	705501	A	STATUS	00432	R	SYSERR	00020	R
TEMP	00417	R	TERMIN	00314	R	UODSW	00000	R			

UODSW	00000	R	SYSERR	00020	R	ERWC	00021	R	ERCODE	00022	R
INIT	00032	R	SERV	00107	R	NOAPI	00123	R	NOFLAG	00126	R
EXIT	00137	R	EXIT,1	00142	R	NOTRDY	00144	R	NOT,1	00152	R
NOT,2	00157	R	ER1	00164	R	ER1,1	00166	R	HOLD	00171	R
HOLD,1	00202	R	RCOLM	00204	R	RCOL,1	00232	R	RCOL,2	00250	R
CHKERR	00253	R	CHK,3	00270	R	BADDAT	00300	R	HOPEMP	00311	R
TERMIN	00314	R	HPERM,1	00322	R	NOPASS	00331	R	NHPEMP	00333	R
CHK,2	00336	R	CHK,4	00341	R	DLYCRD	00364	R	ERR3	00373	R
HOLDER	00402	R	HOLDR1	00410	R	DLYCNT	00416	R	TEMP	00417	R
CNT	00420	R	CNT1	00421	R	HOLSW	00422	R	DATAP	00423	R
DATAP1	00424	R	NOTON	00425	R	CRDCNT	00426	R	CNT80	00427	R
DISTSW	00430	R	SAVAC	00431	R	STATUS	00432	R	DATA	00433	R
FSTERR	00434	R	BINCOD	00435	R	DBR	703344	A	SPI	705501	A
CRCS	706704	A	CROR	706712	A	CRSI	706721	A	CRSC	706722	A
CRLA	706734	A	EEM	707702	A	EBA	707764	A			