

LINE# LOC CODE LINE

```

00001 0000 ;*****
00002 0000 ;*
00003 0000 ;* AAA DDDD DDDD 000 N N *
00004 0000 ;* A A D D D D 0 O NN N *
00005 0000 ;* A A D D D D *** 0 O NN N *
00006 0000 ;* AAAAA D D D D *** 0 O NN N *
00007 0000 ;* A A D D D D 0 O N NN *
00008 0000 ;* A A DDDD DDDD 000 N N *
00009 0000 ;*
00010 0000 ;* L 000 AAA DDDD EEEEE RRRR *
00011 0000 ;* L 0 O A A D D E R R *
00012 0000 ;* L 0 O A A D D E R R *
00013 0000 ;* L 0 O AAAAA D D EEEE RRRR *
00014 0000 ;* L 0 O A A D D E R R *
00015 0000 ;* LLLLL 000 A A DDDD EEEEE R R *
00016 0000 ;*
00017 0000 ;*****

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00019 0000 ;*****
00020 0000 ;*
00021 0000 ;* 64K-ADD-ON LOADER *
00022 0000 ;*
00023 0000 ;* THIS PROGRAM INPUTS A FILE NAME FROM *
00024 0000 ;* THE KEYBOARD AND ATTEMPTS TO LOAD *
00025 0000 ;* THAT PROGRAM INTO ADD-ON RAM SELECTED*
00026 0000 ;* BY CONTROL REGISTER VALUE %10000000. *
00027 0000 ;* A CBM DISK UNIT #8 IS ASSUMED. AN *
00028 0000 ;* AUTO START IS ATTEMPTED THROUGH *
00029 0000 ;* ($FFFC). A NULL FILE NAME TERMINATES*
00030 0000 ;* THIS PROGRAM. *
00031 0000 ;*
00032 0000 ;* 2FEB81 RJF 29JUL81 RJF *
00033 0000 ;* CBM PART # 118002 REV B *
00034 0000 ;*
00035 0000 ;*****

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LINE# LOC CODE LINE

00037 0000  
00038 0000\* =0  
MEMMAP \*=-\*\*+1

; COPY OF ADD-ON REQ

```
00040 0001 ; EQUATES FOR BASIC 4.0
00041 0001 ;
00042 0001 BUF = $200
00043 0001 FNADR = $DA
00044 0001 FNLEN = $D1
00045 0001 STATUS = $96
00046 0001 FA = $D4
00047 0001 SA = $D3
00048 0001 RCLRCH = $F2A6
00049 0001 RLISTN = $F0D5
00050 0001 RSECND = $F143
00051 0001 RCIOUT = $F19E
00052 0001 RUNLSN = $F1B9
00053 0001 RTALK = $F0D2
00054 0001 RTKSA = $F193
00055 0001 RACPTR = $F1C0
00056 0001 RUNTLK = $F1AE
00057 0001 ROPENI = $F4A5
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LINE#	LOC	CODE	LINE
00059	0001		;
00060	0001		* =1024
00061	0400		SYS =158 ; BASIC TOKEN VALUE
00062	0400		;
00063	0400		; ENTER COMPILED BASIC TEXT
00064	0400		;
00065	0400	00	.BYT 0
00066	0401	0D 04	.WOR INIT-2
00067	0403	10 00	.WOR \$10
00068	0405	9E	.BYT SYS
00069	0406	28 31	.BYT '(1039)', 0, 0, 0
00069	040C	00	
00069	040D	00	
00069	040E	00	
00070	040F		;
00071	040F		; SETUP FILE LOAD PARMS
00072	040F		;
00073	040F	A9 80	INIT LDA #X10000000
00074	0411	85 00	STA MEMMAP
00075	0413		;
00076	0413	A0 17	LDY #MS2-MS1
00077	0415	20 90 05	JSR MSG ; TYPE ENTRY MESSAGE
00078	0418		;
00079	0418	A9 00	INIT10 LDA #<BUF
00080	041A	85 DA	STA FNADR
00081	041C	A9 02	LDA #>BUF
00082	041E	85 DB	STA FNADR+1 ; PLACE FOR FILE NAME
00083	0420		;
00084	0420	A9 08	LDA #8
00085	0422	85 D4	STA FA ; DEVICE #8
00086	0424		;
00087	0424		; INPUT FILE NAME FROM SCREEN TO BUF
00088	0424		;
00089	0424	A2 00	LDX #0
00090	0426	20 CF FF	INIT20 JSR \$FFCF
00091	0429	C9 0D	CMP #\$D
00092	042B	F0 06	BEG INIT30
00093	042D	9D 00 02	STA BUF, X
00094	0430	EB	INX
00095	0431	D0 F3	BNE INIT20
00096	0433		;
00097	0433	86 D1	INIT30 STX FNLEN
00098	0435	A9 0D	LDA #\$D
00099	0437	20 D2 FF	JSR \$FFD2 ; ECHO CR
00100	043A		;
00101	043A	A5 D1	LDA FNLEN
00102	043C	D0 01	BNE INIT40 ; NAME WAS NOT NULL
00103	043E		;
00104	043E	60	RTS
00105	043F		;
00106	043F	78	INIT40 SEI ; PROTECTS ADD-ON
00107	0440		;

LINE#	LOC	CODE	LINE		
00109	0440				
00110	0440	A9 00	LOAD	LDA #0	
00111	0442	85 96		STA STATUS	
00112	0444				
00113	0444	A9 60		LDA ##60	
00114	0446	85 D3		STA SA	; SPECIAL LOAD COMMAND
00115	0448				
00116	0448	20 3D 05		JSR OPENI	; OPEN THE FILE
00117	0448				
00118	0448	A5 D4		LDA FA	
00119	044D	20 FF 04		JSR TALK	; ESTABLISH CHANNEL
00120	0450				
00121	0450	A5 D3		LDA SA	
00122	0452	20 OF 05		JSR TKSA	; TELL IT TO LOAD
00123	0455				
00124	0455	20 1F 05		JSR ACPTR	; GET FIRST BYT
00125	0458	8D 78 04		STA EAL	; LOAD ADDRESS LOW
00126	0458				
00127	0458	A5 96		LDA STATUS	
00128	045D	4A		LSR A	
00129	045E	4A		LSR A	
00130	045F	80 41		BCS LD90	; FILE NOT FOUND
00131	0461				
00132	0461	20 1F 05		JSR ACPTR	
00133	0464	8D 79 04		STA EAH	; LOAD ADDRESS HIGH
00134	0467				
00135	0467	A9 FD	LD40	LDA ##FD	; MASK OFF TIMEOUT
00136	0469	25 96		AND STATUS	
00137	046B	85 96		STA STATUS	
00138	046D				
00139	046D	20 1F 05	LD45	JSR ACPTR	; DATA BYTE
00140	0470	AA		TAX	
00141	0471	A5 96		LDA STATUS	; TIMEOUT?
00142	0473	4A		LSR A	
00143	0474	4A		LSR A	
00144	0475	80 F0		BCS LD40	; YES... TRY AGAIN
00145	0477				
00146	0477			EAL	==+1
00147	0477			EAH	==+2
00148	0477	BE 00 F0		STX \$F000	; OPERAND IS SELF MODIFY
00149	047A				
00150	047A	EE 78 04	LD60	INC EAL	; INC STORE ADDRESS
00151	047D	D0 03		BNE LD70	
00152	047F	EE 79 04		INC EAH	
00153	0482				
00154	0482	24 96	LD70	BIT STATUS	; EOI?
00155	0484	50 E1		BVC LD40	; NO...
00156	0486				
00157	0486	20 2F 05		JSR UNTLK	; CLOSE CHANNEL
00158	0489				
00159	0489				
00160	0489				
00161	0489	A5 D4		LDA FA	
00162	048B	20 C1 04		JSR LISTN	
00163	048E				

LINE#	LOC	CODE	LINE	
00164	048E	A5 D3		LDA SA
00165	0490	29 EF		AND #0EF
00166	0492	09 E0		ORA #0E0
00167	0494	20 D1 04		JSR SECND
00168	0497		;	
00169	0497	20 F1 04		JSR UNLSN
00170	049A		;	
00171	049A			; I/O PEEK, SCREEN PEEK
00172	049A			; AND WRITE PROTECT BLOCKS
00173	049A		;	
00174	049A	A9 E3		LDA #%11100011
00175	049C	8D F0 FF		STA #FFFO
00176	049F		;	
00177	049F	6C FC FF		JMP (\$FFFC)
00178	04A2		;	
00179	04A2	20 B3 04	LD90	JSR CLRCH
00180	04A5	A9 00		LDA #%00000000
00181	04A7	8D F0 FF		STA #FFFO ; MAP BACK TO ROM
00182	04AA		;	
00183	04AA	A0 00		LDY #MS1-MS1
00184	04AC	20 90 05		JSR MSG ; FILE NOT FOUND ERROR
00185	04AF		;	
00186	04AF	5B		CLI
00187	04B0	4C 18 04		JMP INIT10 ; RETRY

LINE#	LOC	CODE	LINE
00189	04B3		
00190	04B3	A9 00	CLRCH LDA #0
00191	04B5	8D F0 FF	STA \$FFFF
00192	04B8	20 A6 F2	JSR RCLRCH
00193	04BB	A5 00	LDA MEMMAP
00194	04BD	8D F0 FF	STA \$FFFF
00195	04C0	60	RTS
00197	04C1	85 D4	LISTN STA FA
00198	04C3	A9 00	LDA #0
00199	04C5	8D F0 FF	STA \$FFFF
00200	04C8	20 D5 F0	JSR RLISTN
00201	04CB	A5 00	LDA MEMMAP
00202	04CD	8D F0 FF	STA \$FFFF
00203	04D0	60	RTS
00205	04D1	48	SECND PHA
00206	04D2	A9 00	LDA #0
00207	04D4	8D F0 FF	STA \$FFFF
00208	04D7	68	PLA
00209	04D8	20 43 F1	JSR RSECND
00210	04DB	A5 00	LDA MEMMAP
00211	04DD	8D F0 FF	STA \$FFFF
00212	04E0	60	RTS
00214	04E1	48	CIOUT PHA
00215	04E2	A9 00	LDA #0
00216	04E4	8D F0 FF	STA \$FFFF
00217	04E7	68	PLA
00218	04E8	20 9E F1	JSR RCIOUT
00219	04EB	A5 00	LDA MEMMAP
00220	04ED	8D F0 FF	STA \$FFFF
00221	04F0	60	RTS
00223	04F1		UNLSN
00224	04F1	A9 00	LDA #0
00225	04F3	8D F0 FF	STA \$FFFF
00226	04F6	20 B9 F1	JSR RUNLSN
00227	04F9	A5 00	LDA MEMMAP

LINE# LOC CODE LINE

00228 04FB 8D F0 FF STA \$FFFO  
 00229 04FE 60 RTS

00231 04FF 85 D4 TALK STA FA  
 00232 0501 A9 00 LDA #0  
 00233 0503 8D F0 FF STA \$FFFO  
 00234 0506 20 D2 F0 JSR RTALK  
 00235 0509 A5 00 LDA MEMMAP  
 00236 050B 8D F0 FF STA \$FFFO  
 00237 050E 60 RTS

00239 050F 48 TKSA PHA  
 00240 0510 A9 00 LDA #0  
 00241 0512 8D F0 FF STA \$FFFO  
 00242 0515 68 PLA  
 00243 0516 20 93 F1 JSR RTKSA  
 00244 0519 A5 00 LDA MEMMAP  
 00245 051B 8D F0 FF STA \$FFFO  
 00246 051E 60 RTS

00248 051F ACPTR  
 00249 051F A9 00 LDA #0  
 00250 0521 8D F0 FF STA \$FFFO  
 00251 0524 20 C0 F1 JSR RACPTR  
 00252 0527 48 PHA  
 00253 0528 A5 00 LDA MEMMAP  
 00254 052A 8D F0 FF STA \$FFFO  
 00255 052D 68 PLA  
 00256 052E 60 RTS

00258 052F UNTLK  
 00259 052F A9 00 LDA #0  
 00260 0531 8D F0 FF STA \$FFFO  
 00261 0534 20 AE F1 JSR RUNTLK  
 00262 0537 A5 00 LDA MEMMAP  
 00263 0539 8D F0 FF STA \$FFFO  
 00264 053C 60 RTS

LINE#	LOC	CODE	LINE	
00266	053D	48	OPENI	PHA
00267	053E	A9 00		LDA #0
00268	0540	8D F0 FF		STA \$FFFO
00269	0543	68		PLA
00270	0544	20 A5 F4		JSR ROPENI
00271	0547	78		SEI
00272	0548	A5 00		LDA MEMMAP
00273	054A	8D F0 FF		STA \$FFFO
00274	054D	60		RTS
00276	054E	0D	MS1	. BYT \$D, '?FILE NOT FOUND ERROR', \$8D
00276	054F	3F 46		
00276	0564	8D		
00277	0565	0D	MS2	. BYT \$D, 18
00277	0566	12		
00278	0567	36 34		. BYT '64K ADD-ON-LOADER 2-12-81'
00279	0580	0D		. BYT \$D, \$D, \$D
00279	0581	0D		
00279	0582	0D		
00280	0583	53 59		. BYT 'SYSTEM NAME?', \$A0
00280	058F	A0		
00281	0590	B9 90 05	MSG	LDA MSG, Y
00282	0593	08		PHP
00283	0594	29 7F		AND #\$7F
00284	0596	20 D2 FF		JSR \$FFD2
00285	0599	C8		INY
00286	059A	28		PLP
00287	059E	10 F3		BPL MSG
00288	059D	60		RTS
00289	059E			. END

ERRORS = 00000

SYMBOL TABLE

SYMBOL VALUE

ACPTR	051F	BUF	0200	CIOUT	04E1	CLRCH	04B3
EAH	0479	EAL	0478	FA	00D4	FNADR	00DA
FNLEN	00D1	INIT	040F	INIT10	0418	INIT20	0426
INIT30	0433	INIT40	043F	LD40	0467	LD45	046D
LD60	047A	LD70	0482	LD90	04A2	LISTN	04C1
LOAD	0440	MEMMAP	0000	MS1	054E	MS2	0565
MSG	0590	OPENI	053D	RACPTR	F1C0	RCIOUT	F19E
RCLRCH	F2A6	RLISTN	F0D5	ROPENI	F4A5	RSECND	F143
RTALK	F0D2	RTKSA	F193	RUNLSN	F1B9	RUNTLK	F1AE
SA	00D3	SECND	04D1	STATUS	0096	SYS	009E
TALK	04FF	TKSA	050F	UNLSN	04F1	UNTLK	052F

END OF ASSEMBLY