

CALCAIR

01785400	10168	F889 27	03(F88E)	BEQ	SCALAIRO
01785500	10169	F88B 7E	F919	JMP	FLOWEXIT
01785600	10170	F88E DC	EF	SCALAIRO	LDA D PAIDELTA
01785700	10171	F890 81	06	CMP A	#56
01785800	10172	F892 23	03(F897)	BLS	SCALAIRO
01785900	10173	F894 CC	06FF	LDA D	#1791
01786000	10174	F897 CE	C6A3	LDX	#FMTBLI
01786100	10175	F89A 81	02	CMP A	#2 → 5
01786200	10176	F89C 24	03(F9A1)	BCC	SCALAIRO
01786300	10177	F89E 04		LSR D	
01786400	10178	F89F 86	01	LDA A	#1
01786500	10179	F8A1 37		PSH B	
01786600	10180	F8A2 C6	0B	LDA B	#11 → 19
01786700	10181	F8A4 4A		DEC A	
01786800	10182	F8A5 3D		MUL	
01786900	10183	F8A6 3A		ABX	
01787000	10184	F8A7 32		PUL A	
01787100	10185	F8A8 E6	00	LDA B	0*X
01787200	10186	F8AA 37		PSH B	
01787300	10187	F8AB 08		INX	
01787400	10188	F8AC BD	F33D	JSR	
01787500	10189	F8AF 33		PUL B	P4LKUP2C

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\* MASS AIR FLOW LIMIT CHECKS \*  
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01788100	10190	F880 3D		MUL	
01788200	10191	F881 37		PSH B	
01788300	10192	F882 36		PSH A	
01788400	10193	F883 97	B6	STA A	AIRFLOW
01788500	10194	F885 FE	C014	LDX	KFAOPT
01788600	10195	F888 38		PUL X	SAVFLOW
01788700	10196	F889 2A	41(F8FC)	BPL X	
01788800	10197	F88B 3C		UPDATE	AIRFILT TABLE
01788900	10198	F89C CE	0075	LDX	#AIRFLT1
01789100	10199	F8BF D6	7D	LDA B	AIRCNTYR
01789200	10200	F8C1 5C		INC B	
01789300	10201	F8C2 D7	7D	STA B	AIRCNTYR
01789400	10202	F8C4 58		ASL B	
01789500	10203	F8C5 C4	07	AND B	#507
01789600	10204	F8C7 3A		ABX	
01789700	10205	F8C8 32		PUL A	
01789800	10206	F8C9 33		PUL B	
01789900	10207	F8CA ED	00	STA D	0*X
01790000				CALCULATE	OLD MASS AIR TERM
01790100	10208	F8CC CE	00EA	LDX	#DISPFLOW
01790200	10209	F8CF B6	C6ED	LDA A	KGPLAPPF
01790300	10210	F8D2 40		NEG A	
01790400	10211	F8D3 BD	F2E4	JSR	
01790500	10212	F8D6 DD	EA	STA D	DISPFLOW

EXIT IF NO PULSE OCCURRED THIS 6.25 MSEC  
LIMITS ACCD TO \$ 06 FF, PREVENTS OVERFLOW  
LOAD \$06FF, MAX OF TABLE 6, LAST ENTRY  
POINT TO FIRST (OF 6) TABLE  
IF < 2, FIRST TABLE HAS 64 CTS./DIV  
ACCA WILL POINT TO FIRST TABLE  
SAVE VALUE FOR LOOKUP  
TABLES ARE 11 BYTES LONG  
ACCA CONTAINS TABLE NUMBER  
RESULT (IN ACCB) IS OFFSET FOR CORRECT TABLE  
RETRIEVE VALUE FOR LOOKUP  
SAVE DVDVAL  
MULTIPLY DVDVAL BY SCALEFLOW

TO FORM GM./SEC. DISPLAY VALUE (DISPFLOW)  
IS THIS A SLIDING FILTER CALCAIR?  
NO- STORE RESULT  
YES- FILTER THE LAST FOUR VALUES  
FORM POINTER TO INSERT NEWEST VALUE  
MULTIPLY BY 2 (VALUES ARE 2 BYTES LONG)  
LIMIT TO 7 (VALUE AREA 8 BYTES LONG)  
X NOW POINTS TO VALUE TO BE REPLACED  
GET NEWEST UNLIMITED VALUE  
STORE IN AVERAGING BUFFER  
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TEMPORARY STORAGE FOR OLD TERM