

NO. 2172334
SHEET 0
OF 9

DIAGNOSTIC TEST

TITLE CORE STORAGE TEST - H 20K DTX05H
MACH. TYPE 1620-I BY HNJ APPR. DATE

ENGINEERING CHANGE HISTORY

E/C NO.	DATE	SHEETS AFFECTED
404980	5-7-64	1 - 9

E/C NO.	404980						
DATE	5-7-64						



* DTX05H
 * 1620 MEMORY TEST 20K MACHINE
 *

* THIS FIRST PART KEEPS TRACK OF WHICH PATTERN IS
 * TO BE WRITTEN NEXT AND GENERATES SAME IN LOWEST
 * TESTED AREA IN STORAGE 00-49 FOR 1L 50-99 FOR 1H

00402	DORG 402	
00402 16 00705 -0000	TFM RTCF,,,	RESET ROUTINE COUNT
00414 49 04702 00000	B HEAD	
00426 43 04602 00704	BD EXIT,RTCF-1,,	EXIT
00438 49 00502 00000	B RCC	
00502	DORG *+53	
00502 43 00602 00705	BD RCC,RTCF,,	BR PASS TWO 8877
00514 31 00050 04302	TR 50,TPI,,	SET UP
00526 31 00076 04304	TR 76,TPI+2,,	7788 TEST
00538 17 00706 -0001	BTM IA,L,	
00602	DORG *+53	
00602 31 00050 04402	TR 50,TP2,,	SET UP
00614 31 00076 04404	TR 76,TP2+2,,	8877 TEST
00626 17 00706 -0010	BTM IA,10,	
00638 41 00000 00000	NOP	
00701	DORG *+52	

* WRITE PATTERN THROUGH STORAGE
 * IN BLOCKS OF 50 WITH TRANSMIT RECORD

00705 00005	RTCF DC 5,0,	
00706 31 04513 04331	IA TR AAD,KAD,,	INITIALIZE
00718 31 04538 04331	TR BAD,KAD,,	ADD
00730 31 04434 04345	TR CAD,KCAD,,	SIMULATION TABLES
00742 49 00802 00000	B PUA	
00802	DORG *+49	
00802 16 00820 -0050	TFM WTR+6,50,,	SET START ADR
00814 31 00000 00050	WTR ,50,,	WRITE FROM 50-99 INTO XXX50-XXX99
00826 47 00914 01900	BNA AMA	
00838 49 00902 00000	B PUB	
00902	DORG *+53	
00902 27 04906 00820	PUB BT EK,WTR+6,,	ERROR

* THIS ROUTINE STEPS THE TRANSMIT RECORD ADDRESS IN
 * INCREMENTS OF 100

00914 31 04512 04513	AMA TR AAD-1,AAD,,	STEP 100
00926 25 00818 04513	TD WTR+4,AAD,,	SET 100
00938 49 01002 00000	B AMB	
01002	DORG *+53	
01002 43 00814 04513	AMB BD WTR,AAD,,	BR NO CARRY
01014 31 04513 04331	TR AAD,KAD,,	RESTORE 100
01026 31 04537 04538	TR BAD-1,BAD,,	STEP 1K
01038 49 01102 00000	B AMC	
01102	DORG *+53	
01102 25 00817 04538	AMC TD WTR+3,BAD,,	SET 1K
01114 43 00814 04538	BD WTR,BAD,,	BR NO CARRY
01126 31 04538 04331	TR BAD,KAD,,	RESTORE 1K
01138 49 01202 00000	B AMD	
01202	DORG *+53	
01202 31 04433 04434	AMD TR CAD-1,CAD,,	STEP 10K

14 25 00816 04434
 26 43 00814 04434
 38 49 01302 00000
 02
 TD WTR+2,CAD,, SET 10K
 BD WTR,CAD,, NO BR ON END MEM
 B HKL
 DORG *+53

* * * * * COMPLEMENT AND RESTORE THE PATTERN DIGIT BY DIGIT

* * * * * FIRST SET UP STARTING ADDRESSES

302 15 02307 00005	HKL	TDM WRA+5,5,, SET STARTING ADDRESS
314 31 10739 02241		TR RAD,KRAD,, INITIALIZE
326 31 04538 04331		TR SAD,KAD,, ADD
338 49 01402 00000		B HKM
402		DORG *+53
402 31 04513 04331	HKM	TR TAD,KAD,, SIMULATION
414 31 04434 04345		TR UAD,KCAD,, TABLES
426 25 02313 00050		TD X,50,, INITIALIZE X
438 49 01502 00000		B HKN
502		DORG *+53
502 25 02613 00052	HKN	TD Y,52,, INITIALIZE Y
514 25 01613 02313	HKP	TD XS,X,, SWAP
526 25 02313 02613		TD X,Y,, TEST
538 49 01602 00000		B HKQ
602		DORG *+53
602 15 02613 00000	HKQ	TD Y,,, DIGITS
613 00000	XS	DS ,*

* * * * * THE SUCCEEDING ARRAY OF TRANSMIT FIELD INSTRUCTIONS
ARE USED TO UPDATE THE CURRENT ADDRESS IN THE FOLLOWING
COMPLEMENT AND-RESTORE ROUTINE

614 26 02319 02307	HKQ1	TF WRB+5,WRA+5,, SET ADR
626 26 02419 02307		TF WRE+5,WRA+5,,
538 49 01702 00000		B HKS
702		DORG *+53
702 26 02607 02307	HKS	TF WRG+5,WRA+5,,
714 26 02431 02307		TF WRF+5,WRA+5,,
726 26 02619 02307		TF WRH+5,WRA+5,,
738 49 01802 00000		B HKU
802		DORG *+53
802 26 02907 02307	HKU	TF WRN+5,WRA+5,,
814 26 02719 02307		TF WRL+5,WRA+5,,
826 26 02731 02307		TF WRM+5,WRA+5,,
838 49 01902 00000		B HKV
902		DORG *+53
902 26 02919 02307	HKV	TF WRP+5,WRA+5,,
914 26 03019 02307		TF WRS+5,WRA+5,,
926 26 03031 02307		TF WRT+5,WRA+5,,
938 49 02002 00000		B HKW
2002		DORG *+53
2002 26 03207 02307	HKW	TF WRU+5,WRA+5
2014 26 03219 02307		TF WRV+5,WRA+5
2026 26 03319 02307		TF WRY+5,WRA+5,,
2038 49 02102 00000		B HKY
2102		DORG *+53
2102 26 03507 02307	HKY	TF WRAA+5,WRA+5,,
2114 26 03519 02307		TF WRBA+5,WRA+5,,
2126 26 03331 02307		TF WRZ+5,WRA+5,,
2138 49 02202 00000		B HKZ

02202		DORG *+53
02202 26 03619	02307	TF WREA+5,WRA+5,,
02214 26 03631	02307	TF WRFA+5,WRA+5,,
02226 49 02302	00000	B WRA
02236	00000	TST DS ,*-1
02238 41 00000	00000	NOP
02241	0C008	KRAD DSC 8,5678950',*-8
02241	00000	KEAD DS ,KRAD
02302		DORG *+53
* NOW WE ACTUALLY COMPLEMENT AND RESTORE THE TESTED DIGIT		
* THE BIG LOOP IS USED TO SPEED UP THE PROGRAM WHICH		
* WOULD BE IMPOSSIBLY SLOW WITH A ONE ADDRESS AT A TIME LOOP		
02302 15 -0000 00000	WRA	TDM 0,,2, WR COMP 0
02313 00000	X	DS ,* WR COMP 1
02314 25 00001 02313	WRB	TD 1,X,, BNA WRE
02326 47 02414	01900	B WRC1
02338 49 02402	00000	DORG *+53
02402		WRC1 BT ERR,WRA+6,, ERROR
02402 27 10806	02308	TD 0,Y,, RESTORE 0
02414 25 0C000	02613	TD 1,Y,, RESTORE 1
02426 25 00001	02613	B WRF1
02438 49 02502	00000	DORG *+53
02502		WRF1 BNA WRF2
02502 47 02526	01900	BT ERR,WRE+6,, ERROR
02514 27 10806	02420	TD BC2 WRA,,, LCOP
02526 46 02302	00200	B WRG
02538 49 02602	00000	DORG *+53
02602		WRG TDM 2,Y,, WR COMP 2
02613 00000	Y	DS ,* WR COMP 3
02614 25 0C003	02613	WRH TD 3,Y,, BNA WRL
02626 47 02714	01900	B WRH1
02638 49 02702	00000	DORG *+53
02702		WRH1 BT ERR,WRG+6,, ERROR
02702 27 10806	02608	TD WRL 2,X,, RESTORE 2
02714 25 0C002	02313	WRM TD 3,X,, RESTORE 3
02726 25 00003	02313	B WRM1
02738 49 02802	00000	DORG *+53
02802		WRM1 BNA WRM2
02802 47 02826	01900	BT ERR,WRL+6,, ERROR
02814 27 10806	02720	TD BC2 WRG,,, LOOP
02826 46 02602	00200	B WRN
02838 49 02902	00000	DORG *+53
02902		WRN TD 4,X,, WR COMP 4
02902 25 0C004	02313	WRP TD 5,X,, WR COMP 5
02914 25 00005	02313	BNA WRS
02926 47 03014	01900	B WRP1
02938 49 03002	00000	DORG *+53
03002		WRP1 BT ERR,WRN+6,, ERROR
03002 27 10806	02908	TD WRS 4,Y,, RESTORE 4
03014 25 0C004	02613	WRT TD 5,Y,, RESTORE 5
03026 25 00005	02613	B WRT1
03038 49 03102	00000	DORG *+53
03102		WRT1 BNA WRT2
03102 47 03126	01900	BT ERR,WRS+6,,, ERROR
03114 27 10806	03020	TD WRT2 BC2 WRN,,, LOOP
03126 46 02902	00200	

38 49 03202 00000	B	WRU	
02	DORG	*+53	
02 25 00006 02613	WRU	TD 6,Y,,	WR COMP 6
14 25 00007 02613	WRV	TD 7,Y,,	WR COMP 7
26 47 03314 01900	BNA	WRY	
38 49 03302 00000	B	WRV1	
02	DORG	*+53	
02 27 10806 03208	WRV1	BT ERR,WRU+6,,	ERROR
14 25 00006 02313	WRY	TD 6,X,,	RESTORE 6
26 25 00007 02313	WRZ	TD 7,X,,	RESTORE 7
38 49 03402 00000	B	WRZ1	
02	DORG	*+53	
02 47 03426 01900	WRZ1	BNA WRZ2	
14 27 10806 03320		BT ERR,WRY+6,,	ERROR
26 46 03202 00200	WRZ2	BC2 WRU,,,	LOOP
38 49 03502 00000	B	WRAA	
02	DORG	*+53	
02 25 00008 02313	WRAA	TD 8,X,,	WR COMP 8
14 25 00009 02313	WRBA	TD 9,X,,	WR COMP 9
26 47 03614 01900	BNA	WREA	
38 49 03602 00000	B	WRBA1	
02	DORG	*+53	
02 27 10806 03508	WRBA1	BT ERR,WRAA+6,,	ERROR
14 25 00008 02613	WREA	TD 8,Y,,	RESTORE 8
26 25 00009 02613	WRFA	TD 9,Y,,	RESTORE 9
38 49 03702 00000	B	WRFA1	
02	DORG	*+53	
02 47 03726 01900	WRFA1	BNA WRFA2	
14 27 10806 03620		BT ERR,WREA+6,,	ERROR
26 46 03502 00200	WRFA2	BC2 WRAA,,,	LOOP
38 49 03802 00000	B	ASRA	
02	DORG	*+53	
*	*	THIS SECTION STEPS THE ADDRESS OF THE COMPLEMENT AND	
*	*	RESTORE LOOP	
*	*	*	
02 31 10738 10739	ASRA	TR RAD-1,RAD,,	STEP TENS
14 25 02307 10739		TD WRA+5,RAD,,	SET TENS
26 43 01514 10740		BD HKP,RAD+1,,	BR NO CARRY
38 49 03902 00000	B	ASRB	
02	DORG	*+53	
02 31 10739 02241	ASRB	TR RAD,KRAD,,	RESTORE
14 31 04537 04538		TR SAD-1,SAD,,	STEP 100
26 25 02306 04538		TD WRA+4,SAD,,	SET 100
38 49 04002 00000	B	ASRC	
02	DORG	*+53	
02 43 01614 04538	ASRC	BD HKQ1,SAD,,	BR NO CARRY
14 31 04538 04331		TR SAD,KAD,,	RESTORE 100
26 31 04512 04513		TR TAD-1,TAD,,	STEP 1K
38 49 04102 00000	B	ASRD	
02	DORG	*+53	
02 25 02305 04513	ASRD	TD WRA+3,TAD,,	SET 1K
14 43 01614 04513		BD HKQ1,TAD,,	BR NO CARRY
26 31 04513 04331		TR TAD,KAD,,	RESTORE 1K
38 49 04202 00000	B	ASRE	
02	DORG	*+53	
02 31 04433 04434	ASRE	TR UAD-1,UAD,,	STEP 10K
14 25 02304 04434		TD WRA+2,UAD,,	SET 10K
26 43 01614 04434		BD HKQ1,UAD,,	BR NO CARRY

04238 49 00426 00000
04302

B RCB
DORG *+53

*
* CONSTANTS AND ARITHMETIC WORKING AREAS
*

04302	00027	TP1	DSS 27,,	FIELD OF 7788
04301			DORG *-27	
04304	00004		DC 4,-8778	
04308	00004		DC 4,-8778	
04312	00004		DC 4,-8778	
04316	00004		DC 4,-8778	
04320	00004		DC 4,-8778	
04324	00004		DC 4,-8778	
04328	00004		DC 4,-8778	
04331	00013	KAD	DSC 13,012345678901*,TP1+29	
04345	0C004	KCAD	DSC 4,010*,TP1+43	
04347	00002		DC 2,-10,KCAD+2	
04402			DORG TP1+100	
04402	00027	TP2	DSS 27,,	FIELD OF 8877
04402			DORG *-26	
04402	00001		DC 1,8	
04406	00004		DC 4,-8778	
04410	00004		DC 4,-8778	
04414	00004		DC 4,-8778	
04418	00004		DC 4,-8778	
04422	00004		DC 4,-8778	
04426	00004		DC 4,-8778	
04428	00002		DC 2,8*	
04513	00013	AAD	DSS 13,TP2+111,	100 ADD WORK AREA
04538	00012	BAD	DSS 12,AAD+25,	1K ADD WORK AREA
04434	00004	CAD	DSS 4,TP2+32,	10K ADD WORK AREA
04513	00000	TAD	DSS ,AAD	
04538	00000	SAD	DSS ,BAD	
04434	00000	UAD	DSS ,CAD	
04602			DORG AAD+89	

*
* PASS COUNTER
*

04602	39 04803 00100	EXIT	WATY PCNT,,,	PRINT PASS COMPLETE
04614	46 00402 00400		BC4 RCA	
04626	36 00000 00500		RNCD ,,,	READ NEXT PROGRAM
04638	49 C0000 00000		B	
04702			DORG EXIT+100	
04702	34 00000 00102	HEAD	RCTY	
04714	39 04831 00100		WATY HD,,,	PRINT FALSE 1
04726	34 00000 00102		RCTY	
04738	49 00426 00000		B RCB	
04802			DORG HEAD+100	
04803	00014	PCNT	DAC 14,PASS COMPLETE*,	
04831	00007	HD	DAC 7,DTX05H*,	
04901			DORG PCNT+98	

*
* ERROR ROUTINE- ERROR WHILE WRITING PATTERN
*

04905	00005	ERRX	DC 5,0,	
04906	46 10338 00100	ER	BC1 BB,,,	BYPASS ERROR
04918	31 11537 04331		TR DAD,KAD,,	SET ADD CONSTANTS
04930	31 10739 02241		TR EAD,KEAD	
04942	49 10002 00000		B ERA	

0002		DORG 10002
0002 47 10014 51655	ERA	BNI ERA1,51655,, RESET MBR-E CHECK IND
0014 47 10026 51755	ERA1	BNI ERA2,51755,, RESET MBR-O CHECK IND
0026 26 10113 04905	ERA2	TF CTD+11,ERRX,, SET ERROR FIELD ADDRESS
0038 49 10102 00000		B CTD
0102		DORG *+53
0102 25 11638 -0000	CTD	TD PRC,,7, READ DIGIT
0114 46 10402 01900		BA ERD,,, ERROR
0126 31 11536 11537	CTD2	TR DAD-1,DAD,, STEP UNIT ADR
0138 49 10202 00000		B ERB
0202		DORG *+53
0202 25 10113 11537	ERB	TD CTD+11,DAD
0214 43 10102 11537		BD CTD,DAD
0226 31 11537 04331		TR DAD,KAD,, RESTORE UNITS
0238 49 10302 00000		B ERC
0302		DORG *+53
0302 31 10738 10739	ERC	TR EAD-1,EAD,, STEP TENS
0314 25 10112 10739		TD CTD+10,EAD
0326 43 10102 10740		BD CTD,EAD+1,, BR NO CARRY
0338 42 00000 00000	BB	BB ,,, RETURN
0402		DORG *+53
0402 26 11636 10113	ERD	TF PRA+4,CTD+11,,SET ERROR ADDRESS
0414 38 11638 00100		WNTY PRC,,, PRINT ERROR CHAR
0426 26 10508 10113		TF ERE+6,CTD+11
0438 49 10502 00000		B ERE
0502		DORG *+53
0502 25 0-000 11638	ERE	TD ,PRC,3, RESTORE ADR
0514 47 10526 50755		BNI ERE1,50755,, RESET WRITE CHECK IND
0526 47 10602 51755	ERE1	BNI ERF,51755,, RESET MBR-O CHECK IND
0538 49 10602 00000		B ERF
0602		DORG *+53
0602 47 10614 51655	ERF	BNI ERF1,51655,, RESET MBR-E CHECK IND
0614 39 11703 00100	ERF1	WNTY PRB
0626 38 11632 00100		WNTY PRA,,, PRINT ERROR ADR
0638 49 10702 00000		B ERG
0702		DORG *+53
0702 39 11603 00100	ERG	WATY PR
0714 34 00000 00102		RCTY
0726 49 10126 00000		B CTD2
0739 00007	EAD	DSS 7,*+2
0739 00000	RAD	DSS ,EAD
0738 41 00000 00000		NOP
0801		DORG *+52

*
* ERROR ROUTINE - ERROR DURING COMPLIMENT OR RESTORE
*

10805 00005	ERRY	DC 5,0,
10806 46 11514 00100	ERR	BC1 RET,,, BYPASS ERROR
10818 26 10841 10805		TF ERR1+11,ERRY,,SET EVEN ERROR ADDRESS
10830 25 10923 00000	ERR1	TD PRJ,,, READ EVEN DIGIT
10842 49 10902 00000		B ERRJ
10901		DORG *+48
10902 25 11013 10805	ERRJ	TD ERRK+11,ERRY,,SET ADD TABLE ADDRESS
10914 49 11002 00000		B ERRK
10923 00002	PRJ	DSS 2,*-2
10925 00001		DC 1,*,*
10926 41 00000 00000		NOP
10938 41 00000 00000		NOP
10940 00009	KHAD	DSC 9,123456789,*-9

11002		DORG *+53
11002 25 10805	10940	TD ERRY,KHAD,, READ TABLE
11014 26 11037	10805	TF ERK1+11,ERRY,,SET ODD ERROR ADDRESS
11026 25 10924	00000	TD PRJ+1,,, READ ODD DIGIT
11038 49 11102	00000	B ERRL
11102		DORG *+53
11102 38 10923	00100	WNTY PRJ,,, PRINT ERROR DIGITS
11114 26 11208	10841	TF ERM+6,ERR1+11
11126 26 11220	11037	TF ERM1+6,ERK1+11
11138 49 11202	00000	B ERM
11202		DORG *+53
11202 25 00000	10923	TD ,PRJ,,, RESTORE ERROR DIGITS
11214 25 00000	10924	TD ,PRJ+1
11226 47 11302	50755	BNI ERMN,50755,, RESTORE CHECK IND
11238 49 11302	00000	B ERMN,
11302		DORG *+53
11302 47 11314	51755	BNI ERNL,51755
11314 47 11326	51655	ERN1 BNI ERN2,51655
11326 39 11703	00100	ERN2 WATY PRB
11338 49 11402	00000	B ERRP
11402		DORG *+53
11402 26 11523	10841	TF ERY1+4,ERR1+11,,SET ERROR ADDRESS FOR PRINT
11414 38 11519	00100	WNTY ERY1,,, PRINT ERROR ADR
11426 39 11603	00100	WATY PR
11438 49 11502	00000	B ERRQ
11502		DORG *+53
11502 34 C0000	00102	ERRQ RCTY
11514 42 00000	00000	RET BB ,,, RETURN
*		CONSTANTS AND ARITHMETIC WORKING AREAS
*		ERY1 DSC 6,',*-6
11519 00006		NOP
11526 41 00000	00000	DAD DSS 12,*
11537 00012		NOP
11538 41 00000	00000	DORG ERRQ+100
11602		PR DAC 15, IS ERROR ADR ',
11603 00015		PRA DSS 5
11632 00005		DC 1,'
11637 00001		PRC DSS 1
11638 00001		DC 1,'
11639 00001		DORG PR+99
11702		PRB DAC 14, IS ERR CHAR ',
11703 00014		DEND 402
00402		

DT X05H 80/80 LIST

360007200500360020100500440001200276260005900274250001100000260009000269 -0000
 26000950026431000000020026001140027425000000011490001200000 -0001
 1600705-0000490470200000430460200704490050200000* 0-1-0402-0450 -0002
 4300602007053100050043023100076043041700706-0001* 0-1-0502-0550 -0003
 3100050044023100076044041700706-00104100000000000* 0-1-0602-0650 -0004
 -0000* 1-1-0701-0706 -0005
 310451304331310453804331310443404345490080200000* 0-1-0706-0754 -0006
 1600820-0050310000000050470091401900490090200000* 0-1-0802-0850 -0007
 270490600820310451204513250081804513490100200000* 0-1-0902-0950 -0008
 430081404513310451304331310453704538490110200000* 0-1-1002-1050 -0009
 250081704538430081404538310453804331490120200000* 0-1-1102-1150 -C010
 310443304434250081604434430081404434490130200000* 0-1-1202-1250 -0011
 150230700005311073902241310453804331490140200000* 0-1-1302-1350 -0012
 310451304331310443404345250231300050490150200000* 0-1-1402-1450 -0013
 250261300052250161302313250231302613490160200000* 0-1-1502-1550 -0014
 15026130000260231902307260241902307490170200000* 0-1-1602-1650 -0015
 260260702307260243102307260261902307490180200000* 0-1-1702-1750 -0016
 260290702307260271902307260273102307490190200000* 0-1-1802-1850 -0017
 260291902307260301902307260303102307490200200000* 0-1-1902-1950 -0018
 260320702307260321902307260331902307490210200000* 0-1-2002-2050 -0019
 260350702307260351902307260333102307490220200000* 0-1-2102-2150 -0020
 2603619023072603631023074902302000004100000000000* 0-1-2202-2250 -0021
 5678950* 1-1-2241-2249 -0022
 15-00000000250000102313470241401900490240200000* 0-1-2302-2350 -0023
 2710806023082500000261325000102613490250200000* 0-1-2402-2450 -0024
 470252601900271080602420460230200200490260200000* 0-1-2502-2550 -0025
 150000202613250000302613470271401900490270200000* 0-1-2602-2650 -0026
 271080602608250000202313250000302313490280200000* 0-1-2702-2750 -0027
 470282601900271080602720460260200200490290200000* 0-1-2802-2850 -0028
 250000402313250000502313470301401900490300200000* 0-1-2902-2950 -0029
 271080602908250000402613250000502613490310200000* 0-1-3002-3050 -0030
 470312601900271080603020460290200200490320200000* 0-1-3102-3150 -0031
 250000602613250000702613470331401900490330200000* 0-1-3202-3250 -0032
 271080603208250000602313250000702313490340200000* 0-1-3302-3350 -0033
 470342601900271080603320460320200200490350200000* 0-1-3402-3450 -0034
 250000802313250000902313470361401900490360200000* 0-1-3502-3550 -0035
 271080603508250000802613250000902613490370200000* 0-1-3602-3650 -0036
 470372601900271080603620460350200200490380200000* 0-1-3702-3750 -0037
 311073810739250230710739430151410740490390200000* 0-1-3802-3850 -0038
 311073902241310453704538250230604538490400200000* 0-1-3902-3950 -0039
 430161404538310453804331310451204513490410200000* 0-1-4002-4050 -0040
 250230504513430161404513310451304331490420200000* 0-1-4102-4150 -0041
 310443304434250230404434430161404434490042600000* 0-1-4202-4250 -0042
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