

----- DMC-8377 BIPOLAR ROM WRITER CARD USER MANUAL -----

1.1 DESCRIPTION

THE DMC-8377 BIPOLAR ROM WRITER, A ADD-ON BOARD FOR APPLE II SERIES COMPUTER IS DESIGNED TO PROGRAM THE TITANIUM-TUNGSTEN (TI:W) FUSE LINK TYPED BIPOLAR ROM. THE DMC-8377 CAN BE EASILY ATTACHED TO THE APPLE II COMPUTER BY PLUGGING INTO ONE OF THE EIGHT SLOTS (EXCEPT SLOT 0) CONNECTORS.

1.2 FEATURES:

- ..THE FOLLOWING BIPOLAR DEVICE CAN BE PROGRAMED BY THE DMC-8377 BIPOLAR ROM WRITER:
 - 1: TEXAS'S 18 SERIES PROM
 - 2: NATIONAL'S TI:W FUSE LINK PROMS
- ..EASY TO USE
- ..PROM TYPE CAN BE CHANGED ANY TIME YOU NEED, WITHOUT TURN OFF POWER
- ..POWERFUL COMMAND SETS.
- ..ON LINE DOCUMETATION ARE BUILD IN.
- ..FIRMWARE ENCLOSED.
- ..HIGHLY RELIABLE.

1.3 SPECIFICATIONS:

1. POWER: +5V (+5%) 0.5A MAXIMUM
 +12V (+5%) 1A MAXIMUM
2. SIZE: 6.8" X 2.8"

2.1 INSTALLATION GUIDE:

- 1: TURN OFF THE POWER BEFORE CONNECTING OR DISCONNECTING ANYTHING ON THE APPLE II.
- 2: REMOVE THE APPLE II COVER.
- 3: PLUG THIS CARD INTO ANY SLOT EXCEPT SLOT 0 IN APPLE II COMPUTER SYSTEM.
- 4: TURN ON POWER FOR THE APPLE II SYSTEM.
- 5: TYPE PR#N N IS SLOT NO.).
- 6: NOW, THE PROM WRITER BOARD WANTS YOU ANSWER THE PROM TYPECODE. for example: YOU MAY TYPE 0181 FOR PROM SN74S72.
- 7: WHEN YOU ANSWER BACK, THE PROM WRITER REQUESTS YOU TO MAKE SURE IS IT CORRECT ?
- 8: IF EVERYTHING IS OK, THEN TYPE Y <CR>, AND PLACE PROM ONTO SOCKET. ELSE TYPE N <CR>. IT WILL GO BACK TO PROCEDURE 6.
- 9: NOW, YOU CAN GIVE ONE OF THE TEN COMMANDS TO REQUEST THE PROM WRITER TO SERVICE YOU.
- 10: YOU CAN TYPE ? (CR) TO GET MORE INFORMATIONS ABOUT THE TEN COMMANDS PROVIDED FOR THIS CARD.

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*      COMMAND SET FOR DMC-8377 PROM CARD      *  
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TOTAL TEN COMMAND ARE PROVIDED FOR DMC-8377 PROM CARD. DETAILED DESCRIPTIOUS FOR THESE COMMANDS ARE GIVEN TO GUIDE YOU HOW TO USE IT.

1. PROGRAM COMMAND: COPY RAM TO PROM. THE DEFAULT ADDRESS FOR RAM IS \$1000.
COMMAND FORMAT: PXXXX,YYYY (X,Y ARE FROM ADDRESS).
XXXX MUST BE XX00, YYYY MUST BE YYFF, OTHERWISE WILL WRITE UNKNOWN DATA INTO PROM. THIS COMMAND WILL WRITE DATA (ADDRESS FROM \$1000+XX00 TO \$1000+YYFF-XX00) INTO PROM (ADDRESS FROM \$XX00 TO \$YYFF)
2. BLANK CHECK COMMAND: TWO BYTES CHECKSUM WILL BE SENT TO YOU. CHECKSUM WILL BE 0000 IF THE PROM IS BLANK. COMMAND FORMAT: B
3. TRANSFER COMMAND: COPY PROM TO RAM. STARTING ADDRESS FOR RAM IS DEFAULT TO \$1000.
COMMAND FORMAT: TXXXX,YYYY (X,Y ARE FROM ADDRESS).

4. VERIFY COMMAND: COMPARE PROM WITH RAM.
COMMAND FORMAT: VXXXX,YYYY (X,Y ARE PROM ADDRESS. THE DEFAULT ADDRESS FOR RAM IS \$1000).
5. RETURN TO MONITOR COMMAND: RETURN TO APPLE II MONITOR.
COMMAND FORMAT: X
IF YOU WANT RE-ENTER PROM CARD, YOU MUST TYPE <RESET> KEY, THEN TYPE PR#N
6. CHANGE PROM TYPE COMMAND: USE THIS COMMAND, YOU CAN CHANGE PROM TYPE. LIKE PROCEDURE 6 (BUT YOU MUST REMOVE PROM FIRST) OTHERWISE WILL DESTROY THE PROM. COMMAND FORMAT: C
7. DISPLAY COMMAND: DISPLAY THE CONTENT OF RAM FROM XXXX TO YYYY.
COMMAND FORMAT: DXXXX,YYYY
8. MOVE RAM TO RAM COMMAND: COPY RAM TO RAM
COMMAND FORMAT: MXXXX,YYYY,ZZZZ (X,Y ARE PROM ADDRESS)
IT WILL MOVE DATA FROM XXXX ->YYYY INTO ZZZZ ->ZZZZ+YYYY
9. MODIFY RAM COMMAND: MODIFY THE CONTENT OF A GIVEN ADDRESS OF RAM. WHEN COMMAND IS ISSUED, THE GIVEN ADDRESS WILL DISPLAY FIRST AND THEN ITS CONTENT. IF YOU DON'T WANT TO MODIFY IT, TYPE (CR). THEN THE NEXT ADDRESS AND ITS CONTENT WILL DISPLAY AGAIN. ENTER SPACE BAR AND RETURN KEY WILL TERMINATE THIS COMMAND.
COMMAND FORMAT: SXXXX
10. HELP COMMAND: ON LINE DOCUMENTATION
COMMAND FORMAT: ?

(CR) IS USED TO TERMINATE THIS COMMAND
XXXX: STARTING ADDRESS
YYYY: ENDING ADDRESS
ZZZZ: THE OTHER BLOCK STARTING ADDRESS

***** BIPOLAR ROM TYPECODE LIST *****

SIZE	PACKAGE	PART NO.	TYPECODE	SOCKET	BOARD
National Semiconductor					
2KX4	18	DM77/87S184	0702	3	DMC-8377
2KX4	18	DM77/87S185	0702	3	DMC-8377
1KX4	18	DM54/74S572	0302	3	DMC-8377
1KX4	18	DM54/74S573	0302	3	DMC-8377
512X8	20	DM54/74S472	0181	1	DMC-8377
512X8	20	DM54/74S473	0181	1	DMC-8377
512X4	16	DM54/74S570	0103	2	DMC-8377
512X4	16	DM54/74S571	0103	2	DMC-8377
256X4	16	DM54/74S287	0003	2	DMC-8377
256X4	16	DM54/74S387	0003	2	DMC-8377
Texas Instruments					
256X8	20	18SA22	0091	1	DMC-8377
256X8	20	18S22	0091	1	DMC-8377
512X8	20	18SA42	0191	1	DMC-8377
512X8	20	18S42	0191	1	DMC-8377