

PACKAGE 4 44K BYTE DYNAMIC RAM ADD-ON

SCHEMATICS

USE THE FOLLOWING 3 SCHEMATICS IN PACKAGE 1 ASTROCADE SYSTEM UPGRADE AND MAKE THE DELETIONS SHOWN BELOW.

RAM BOARD 50 CONTACT EXPAND INTERFACE SCHEMATIC

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USER RAM DECODER SCHEMATIC
USER RAM SCHEMATIC

DELETIONS

① RAM BOARD 50 CONTACT EXPAND INTERFACE SCHEMATIC.

DELETE LINES \overline{WR} , $\overline{M1}$, \overline{IORQ} AND PX .

② RAM BOARD USER RAM DECODER SCHEMATIC.

DELETE IC24 AND IC7. PIN 12 OF IC6 SHOULD BE WIRED TO \overline{MREQ} .

IC77 IS REQUIRED FOR FURTHER EXPANSION AND IS THEREFORE OPTIONAL. IF IC77 IS DELETED, WIRE PIN 12 OF IC5 TO \overline{BUZOFF} .

COMMENTS

ADD-ON REQUIRES ONLY +5V POWER SUPPLY. REFER TO POWER SUPPLY SCHEMATIC IN PACKAGE 1. SOLDER A $0.1\mu\text{F}$, 12V DISC CAPACITOR, FROM V_{CC} TO GND, ON TO THE BOTTOM OF EACH WIREWRAP IC SOCKET. WIRE A $15\mu\text{F}$ TANTALUM (OBSERVING POLARITY) AND $0.1\mu\text{F}$ DISC CAPACITOR, FROM +5V TO GND, WHERE THE +5V AND GND POWER LINES ENTER THE RAM BOARD. TWO LOW RESOLUTION DEMOS ARE AVAILABLE, FOR TESTING PURPOSES, AS DISCUSSED IN COMMENTS SECTION ON PACKAGE 2 TITLE PAGE. DITTO FOR ANY QUESTIONS REGARDING THE ADD-ON. REFER ALSO TO NOTES 12, 13 AND 14 IN PACKAGE 2. THIS ADD-ON IS RECOMMENDED ONLY FOR USE WITH SEPARATE COMPOSITE VIDEO AND AUDIO OUTPUTS FED TO A MONITOR/TV. WIRE SPARES AS SHOWN BELOW.

