OIGITAL RESFACH GOAPUTEES

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WMTWES:





UES EIVE VOLT TM Y EFकOMS AMU FAMS
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EXTENOED ADOREDENG TO 4 ETS EATTCH BELECTAEE
ON ECAFD WHIT STATE GHFUTHRY TH NEEDED

WLFWRTE FHANTAm
FEFETT FOF MF/M SVETEMS

DOUGLE GTED FG EQAFQ FLATED THOUQH HOLES
BTEF SQFENED COHFQNENT LEOEND AWD SOLDEF MAGETD
GOLD FlATED FINDEFS
FULY GUFEEED ANO BYPASSED

| 16 | 24 ¢ramerse |
| :---: | :---: |
| 4 | 20pin 5ocketw |
| 2 | 16 ¢im socrets |
| 1. | 14 pirimecty |
| 3 |  |
| $E$ |  |
| \% |  |
| 4 |  |
| $\cdots$ | T-9\% heetsimcs with hermwere |
| $\cdots$ | 78¢\% +90¢ voltage regul etors |
| $\underline{\square}$ | 1 EDO |
| 1 | 74400 |
| \% | 741.604 |
| $x$ | 741509 |
| 1 | 746 |
| 1 | 74150 |
| $E$ | $74 \mathrm{LS3}$ |
| 1 | 74674 |
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| 4 | 74824 |
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| 5 | B powition DIF Emitmbe |
| 48 | A以GAT jumper pane or |
| 16 | shortimg bloctss anct |
| 16 | S-romtion jumper powt= |
| 1 | Fle brard |

## 32K S－100 EPROM／STATIC RAM FOUR FUNCTION BOARD

GNFFAL WONETWUTION HTHE
 use a melcerimg gut i！！bee mmell diemeter \｛mum as ez gemge？




 PREVEST MMTUEY TU YOUF EVES．




LTMITED WAFGADTY
 Harranty as refated tothiskitn

A3＝0 mote that mber this product is pumbhased as a blamb boamen al．that is שovered by fhe limsted warmenty is the phemard j七心ほ1f：

 ar modtried bomed．

## ASSEMBL Y TNETFUTTQHE

MV Give the Ft boerd a good visum inspection for may obvious shorts or opens. There should be money but a pex mimutes =pent Here could wave houre later.
ry usime an ohmeter: insume thet where are mo whorte betmeen Eus pin t and 50.
Mu Inctal and solder the 4 pir soctses for fu 1 acatione xs through x日 anc rt through ven Note that pan wa or al memories $j=$ orimented to the tonn
 at the "FAv/FOM" ar"ase above the memory locetions.

 the memory bomations.



Un Insted and solder the a 16 pin sockets at lometions zid and 212.

4 Instell and solder the 16 i4 pim sockete at 1 owetome ze.







 FB.
 Eethocie (denetect by the fiat side) goes toward the 1 eft side of the board.


[] Inctal] and solder the four radial lemetantadum caps at:
 polarity whem imetallimg these partsu
 the output of eewh 7 gos uroter power in your syetem. The output: is measured on the right pin of the 7eot. the meaturect voltage
 must bererlaced.
 top.





[.] Tmstell a 74684 in cocret 1 owetrom 28 .


 and z2e.
[] Femeatumethe voltage regulator outputa fo ineure proper operation.

## SET UF ABD USE




 (HIGH) ant an oper or off switch is a zerg (LOW)n F"or example: "o address the $16 k$ bocis to begin at fooo Hexs mis amd At must

 operete in the seme manner a Note thet it is possible bute not desirable to addmess both $X$ and $\gamma$ to the same location.
 when DFF disables Fetemded addresemingu

Gwitch ge wosition $o$ Control: the Fhantom input to the board. GFF and the board diswegarde phantomn on and the board remponds to Fhantom.

Switem Ge position 7 enabies the wait state gemeratory on allows ome watt state to be inserted.

 selemt (Fort 2OHEx) 。

 that bamk A. J. ON emable the boerd for all Bankse Aid DFF would disable the boerd with ariy output to the bants select portu
 a 1 ogical 1 and on cormewpome to a 1 ogical o.

Ewitw




The moard is set up fo "wome up ersebfed" If you mould itre the bombtw wome up diEabled bamk Eelset wisey then cut the jumper on the solder side of the boart at whate and jumper diseblen
$276 / 26 \times 8 \mathrm{FAm}$

 (clipped leads from monolythic cope are usually perfect fomper the center air at each lomatiom to either mam (righty or Rom (deft) $\quad$ ff you have the shortimg blocks instaly them as above. For every locetion installed as memory you must turn om the corresponding sefect suitatu.

## 27S2 EFROMS

$[J$ On the solder side of the boxrd cut the jumper between il

 positions, Fopuldte only the "ToF" row of memory and aesve tho "bottom" row empty" Now onty the "even" postions of the select玉witthes control whe memory ensbles.

## THEOFY OF OFEFATTON

Z16 and za7 provide butferimg for addreswes Aothough aizu Z1. butfers the deta out and ze wutfers the dete in. $z$ ie provides the

 at the correwt timen zao zeln and zow enabie zil and ziz whem
 decoding of the extencted addresses $z 19$ and zi9 decode the bank
 the benk letoh as well as the wait state generatorn


