

Notes:
Unless otherwise Specified:
1. All Resistor values given in ohms and ¼ watt.
2. All Capacitor values given in microfarads.
3. ⚡ Indicates Electrolytic Capacitors at:
C12 (C30,C36), C14, C15, C25, C26, C27 and C29

Switch Settings:
DS1 (Dip Switch)
Switch 1 ON - chime notes, OFF - synth sounds.
Switch 2 ON - Speech, OFF - No Speech.

SW1 (Momentary Pushbutton)
Diagnositc Start

Test Points:
TP1 +12v
TP2 -12v
TP3 GND
TP4 +5v.

Jumper Settings:

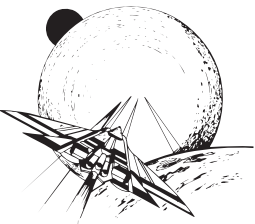
Use W1 when no speech board attached.
Remove W1 for Speech
Use W2 for 2516 or 2716 Eprom (2K)
Use W3 for 2532 Eprom (4K) or 7641 Prom (512 byte) *
Robotron, Joust, Bubbles, Sinistar (video games)
W4 allows J3 P6 to be a sound select (video games)
W5 used always / unless Big Strike (bowler) *
W7 used always. W9 will allow Speech select by DS1
used always / unless Big Strike (bowler) *
W10 used always / unless Big Strike (bowler) *
W12 allows J3 P8 to be a sound select (Warlock pinball)
W13 not used. Never implemented.
W15 used always, volume control to TDA2002 Amp
CPU can be 6802 or 6808 without changes
Cut trace W14 under R30 to use a 6802 CPU with the
internal RAM enabled, IC11 not be used, but can be left.
For 6808 CPU, W14 and 6810 RAM in IC11 required.

* unless Big Strike (7641 Prom, sound only):
W1, W3, W6, W7, W9, W11, W12, W15

Specific Games:

Pinball with speech (2716):
Gorgar, Blackout, Firepower, Black Knight, Jungle Lord and Pharaoh
W2, W5, W7, W9, W10, W15
Pinball with sound only (2716):
Solar Fire, Barracora, Hyperball, Cosmic Gunfight,
Varkon, Time Fantasy, and Star Light
W1,W2,W5,W7,W9,W10,W15
Warlock, Defender and Joust (Pinball, sound only)
W1, W2, W5, W7, W9, W10, W12, W15
Video with speech (2532):
Sinistar (Upright & Cockpit front)
W3, W4, W5, W7, W10, W15
Video with sound only (2532):
Robotron, Joust, Bubbles, Blaster and Sinistar (Cockpit rear),
W1, W3, W4, W5, W7, W10, W15
Stargate and Defender (Video games, sound only, 2516 / 2716)
W1, W2, W5, W7, W9, W10, W15

FIREPOWER
Sound Board Logic Drawing (Sys 6&7)
Board Type 2



www.firepowerpinball.com
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