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Sync Boards Schematics .......................................... 16, 17 & 18
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INSTALLATION:
Open back of cabinet and MAKE SURE ALL BOARDS ARE PROPERLY SEATED INTO CARD CAGE. Plug into AC Power.

PRICE PER GAME SWITCH:
Located at the top of the memory board is the price per game switch. Up is one coin per game and down is two coins per game.

GAME TIME POT:
Directly below the price per game switch is the game time pot.

WHITE PLANE SHOT RANGE POT:
Directly below the game time pot is the white plane shot range pot. Turning clockwise increases shot range. Range should be adjusted to be equal to black plane range.

VOLUME 2 POT (Location "2"):
Volume for white plane is controlled by the top pot on the sync board. Clockwise increases volume.

VOLUME 1 POT (Location "1"):
Directly below the volume 2 pot is the black plane volume. Operates same as volume 2 pot.

NOTE: FOLLOWING CONTROLS ARE FACTORY SET. QUALIFIED TECHNICAL PERSONNEL ONLY SHOULD ADJUST.

NOISE VOLUME:
Location #4 controls shot and boom plane relative volume.

PITCH 2:
Controls pitch of black plane motor.

TONE 2:
Controls tone of black plane motor.

PITCH 1:
Same as pitch 2 for white plane.

TONE 1:
Same as tone 2 for white plane.

NOTE: BE SURE ALL BOARDS ARE PROPERLY SEATED, INCLUDING INTERCONNECT BOARDS IN HARNESS CONNECTOR.
Detail A
Typical — 4 Places
TROUBLESHOOTING GUIDE

AUDIO
1. Check speakers and connections
2. Adjust audio controls on synch board
3. Change synch board

VIDEO (RIPPLE, DISTORTION, BLANK SCREEN)
1. Measure +5V
2. Check interlock switches
3. Shorted diode in P.S. rectifier
4. Change synch board

VIDEO (SHAKE)
1. Adjust T.V. controls
2. Change crystal/4024 I.C. on synch board

MOTION
1. Check control panel switches
2. Switch motion boards — if problem persists
   on same side (i.e. black or white plane)
   change memory board

SCORING
1. Change memory board

Important: Severe damage will occur if any board but the synch board is
inserted in synch board socket.

1. Check control panel switches
2. Switch motion boards — if problem persists on same side (i.e., black or
white plane) change memory board
## PARTS LIST

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<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>UNIT PRICE</th>
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<tbody>
<tr>
<td>300-200</td>
<td>Power Supply</td>
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<tr>
<td>500-206</td>
<td>Mother Board</td>
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<td>500-201</td>
<td>Motion Board</td>
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<td>500-202</td>
<td>Synch Board</td>
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<tr>
<td>500-204</td>
<td>Memory Board</td>
<td>250.00</td>
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<tr>
<td>500-200</td>
<td>Set of PC Boards w/Cage</td>
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<td>600-200</td>
<td>Control Panel</td>
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<td>400-100</td>
<td>Coin Door Assembly</td>
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<td>P.S. Rectifier</td>
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<td>P.S. Voltage Regulator</td>
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<td>19” Monitor, Motorola</td>
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<td>Speakers</td>
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<td>46-0051</td>
<td>Switch, Cherry, E51</td>
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<td>Fire Button, Switch</td>
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<td>P.S. Transformer</td>
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<td>Crystal 14.318 MHZ</td>
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<tr>
<td>32-2N6246</td>
<td>2N6246 Power Transistor</td>
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Minimum Order – $25.00
Motion Board 1 of 2

† Indicates pull up to +5 thru 1K RES.
+5
1 for board one.
2 for board two.
[] All signals of similar name