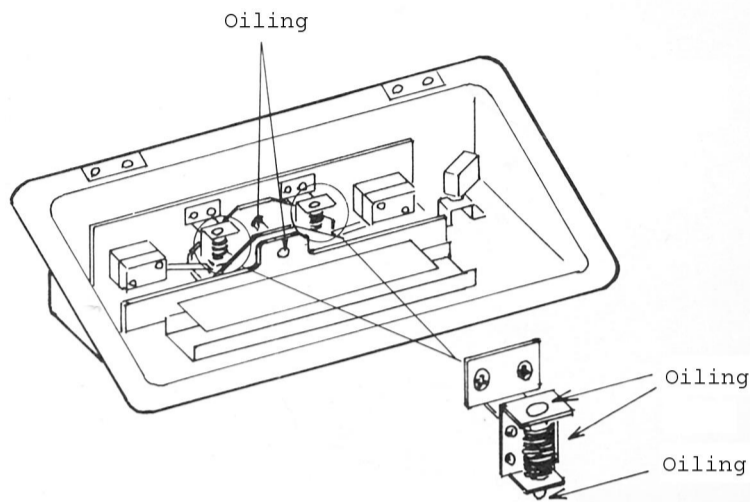# OILING
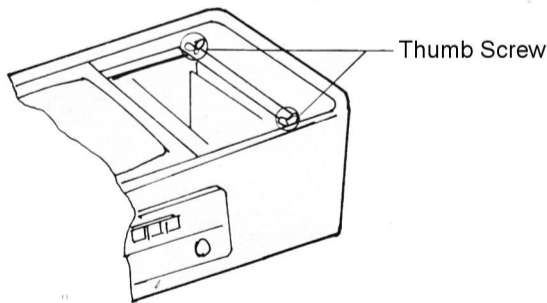
* Add oil to the following part of the control box when laser gun control lever is not smooth in operation.

  (Use silicon grease "SILICOLUBE" (G-31L)
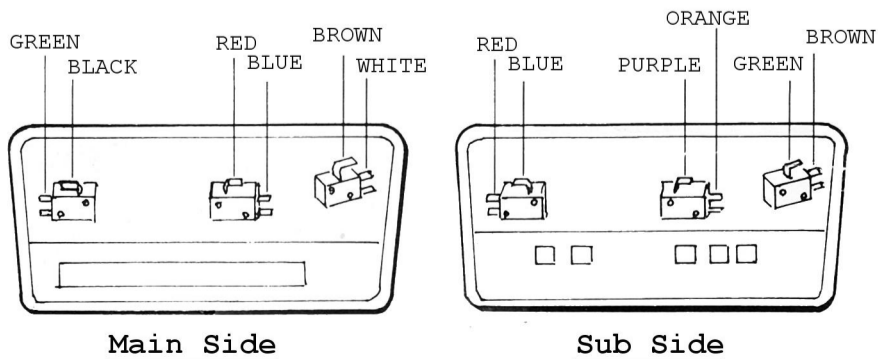
Oiling

Oiling

Oiling

CAUTIONS

1. Turn the power off before exchanging and removing tyhe p.c.board and connectors.

2. Do not touch IC, LSI and other electronic parts on p.c.boards. Do not use a tester or the like on them.

3. CPU p.c.board, I/O p.c.board and sound p.c.board to be stored or transported should be wrapped by a conductive pouch or aluminum foil.

4. CPU p.c.board and sound p.c.board should not be exposed direct to the sun.

5. When soldering, use soldering iron of which end is grounded.

6. When removing CPO p.c.board or I/O p.c. board, remove two thumb screws. When removing sound p.c.board, remove two screws.
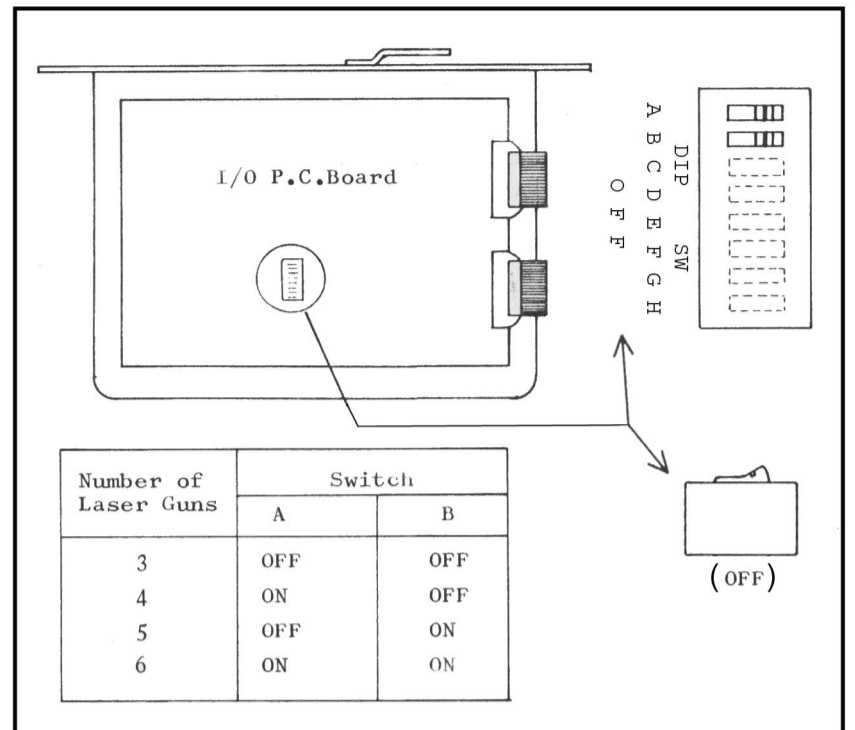

Thumb Screw

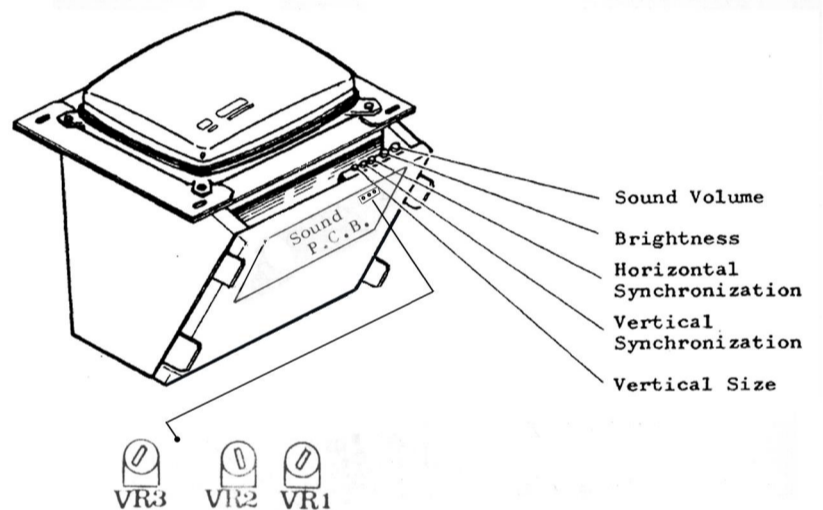7. Wiring for the laser gun control switch and fire switch are show in the figures below.

GREEN RED BROWN
BLACK BLUE WHITE

RED ORANGE BROWN
BLUE PURPLE GREEN

Main Side **Sub Side**

ADJUSTMENTS

1. Number of Laser Gun

I/O P.C.Board

DIP SW A B C D E F G H O F F

(OFF)

Number of Laser Guns	Switch	
	A	B
3	OFF	OFF
4	ON	OFF
5	OFF	ON
6	ON	ON

* Switches C - H have no function.

2. Video Monitor & Sound Volume

Sound P.C.B.

Sound Volume
Brightness
Horizontal Synchronization
Vertical Synchronization
Vertical Size

VR3 VR2 VR1

* Do not touch the inside of the video monitor in which many parts are supplied with high tension.

VR1	Sound for advance of attackers
	Extra score sound
	Sound for entering of spaceship
	Spaceship explosion sound
	Game start sound
	Game over sound
	Laser gun explosion melody
	Sound for re-entering of attackers
VR2	Laser gun firing sound
	Laser gun explosion sound
	Attacker explosion sound
VR3	VR1 VR2 consolidated sound adjustment
	Adjust consolidated sound on video monitor first.(see page 5)

Turning the VR in the clockwise direction increases the sound volume.