

## SERVICE INSTRUCTION





#### GAME OVERVIEW

Sometime in the not so distant future, EARTH suffers a tragic twist of fate ! An all powerful and mighty EMPIRE seizes control of our land. Human existance is threaten by these mysterious metallic monsters ! Is there no hope for mankind ? Has man seen his last reign on EARTH come to an end

Unknown to the destructive forces that now rule over the land and sea, is a secret mechanism developed as man's last hope 'All of man's energies, resources and knowledge have been poured into this new defense weapon. If man is to succeed in regaining his home from these evil forces, this machine is his final breath! The terrible three headed DRASONIA scorns the land consuming our people with it's variatious hunger! Can it be stopped ???

A single, brave and gallant soldier must be chosen to fight this final battle! All mankind awaits the outcome of this lopesided match! Can EARTH be saved ?? The craft launches now from the underground rebel base and races to the jetta point!

Who will win the final battle between DRAGONIA and MAGMAX ? ? ...

#### KIT CONTENTS :

1.	NICHIBUTSU PRINTED CIRCUIT BOARD	1	рc
2	FCC STICKER	1	
3.	MARQUEE	1	
4.	SIDE DECALS	2	
5.	WIRING HARNESS	1	
6.	8-WAY JOYSTICK	1	
7.	BUTTON / SWITCH ASSEMBLY	2	
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#### USER INFORMATION

#### F.C.C. REGULATION COMPLIANCE

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a CLASS "A" computing device pursuant to subpart J of part 15 of F.C.C. rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

F.C.C. requires the STICKER comes within the KIT have to be on the back of your machine or elsewhere visible when inspected.

#### SERVICE INFORMATION

NICHIBUTSU will repair and exchange parts or replace P.C.Board in the event of manufacturing defect for ninety day after original purchase.

Mail-in service can be obtained during the warranty period by sending the product postage prepaid, to the nearest distributor or NICHIBUTSU USA CORP. (California).

A purchase receipt or other proof of of date of original purchase will be required before warranty performance is rendered.

It is important that the enclosed registration card be filled out entirely and send-in for your protection in case of product failure.

#### HOW TO PLAY

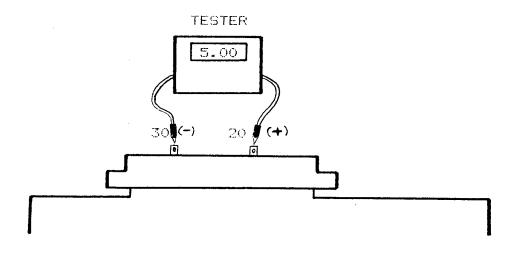
- Control MAGMAX using 8 way joystick.
- imes Destroy enemies and alien formations using <code>ENERGYBEAM</code> !
- $\star$  Warp between ground level and underground using TRANSPORTER .
- \* Form a powerful MAGMAX robot by joining with head and leg units. FIREPOWER is increased with each unit added.
- \* With HEAD joined to MAXcraft, pick up RED PLASMA WEAPON. This enables MAGMAX to destroyed enemies in succession!
- \* BONUS point for destroying enemies formed in one line flashing RED : 1000 1000 1000 - ->
- \* Shoot down STALACLITES to destroy enemies !
- \* Beware of underground volcanoes !
- \* When DPAGONIA appears, shoot each head seven times to defeat it !

#### POWER REQUIREMENT

This P.C. Board requires a power supply of

- \* + 5  $\vee$  5 A (± 2%) for game logics
- \*  $\pm 12 \ \forall \ 1 \ A \ (\pm 10\%)$  for audio IC only

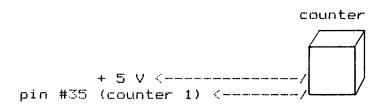
It is very important that exactly + 5 V must be adjusted and checked at the edge connector pin # 20 (plus) and pin # 30 (minus) as shown below. Otherwise malfunction may occur in some cases.



#### WIRING CONNECTOR

SOLDER SIDE			PARTS SIDE					
1	p1-UP	w/brown	2	p1 - DOWN	w/red			
3	pi - LEFT	w/orange	4	p1 - RIGHT	w/yel			
5	pi- SHOOT	w/green	6	·	•			
7	p2 - UP	1	8	p2 - DOWN				
9	p2 - LEFT	İ	10	p2 - RIGHT				
1 1	p2 - SHOOT	ł	12	•				
1.3	COIN 1	w/purple	14	COIN 2				
15	GND		16	GND	black			
17 .	GND	black	18	GND				
19	+ 5 V	red	20	+ 5 V	red			
21	+ 12 V	yellow	22					
23			24	+ 12 V				
25	+ 5 V	red	26	+ 5 V				
27	GND	black	28	GND				
29	GND	black	30	GND				
31	1 player	brown	32	2 players	w/blue			
33	TEST	orange	34	SERVICE	w/blk			
35	COUNTER 1	w/gray	36	COUNTER 2				
37	SP (+)	purple	38	SP (-)	gray			
39			40	RED				
41	GREEN		42	BLUE				
43	GND	black	44	SYNC	white			

#### COUNTER CONNECTION



Only work with 5 V or 6 V type counter. Please don't use 12 V or 24 V type counter, It may damage the logic board.

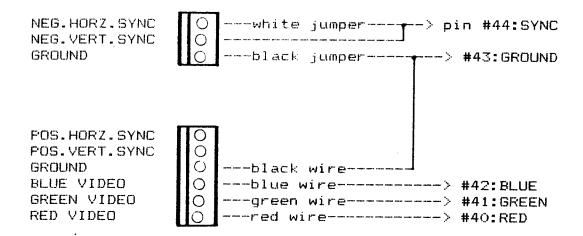
#### MONITOR SYNCHRONIZATION

The F.C.Board in this kit uses COMPOSITE NEGATIVE SYNCHRONIZATION.

The wires of the new harness to the monitor are color coded to indicate the RED , BLUE , GREEN video signals to the monitor . The BLACK is used for GROUND ( 0 V ) and the WHITE is for SYNC (synchronization).

Attach the wires from the P.C.Board to the monitor's main circuit board as shown below .

#### \*for WELLS-GARDNER MONITOR & \*for ELECTROHOME MONITOR



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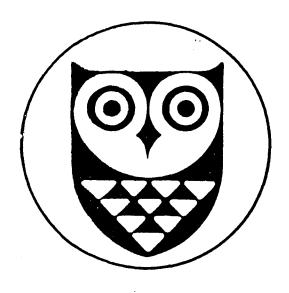
#### DIF SWITCH ADJUSTMENTS

#### SWITCH 1

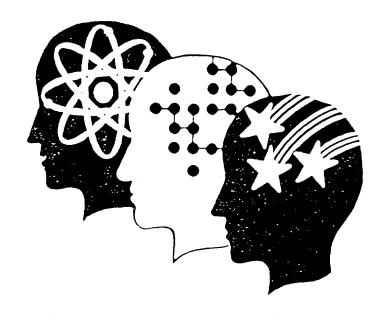
	nt een mager tokk mede eens eens wild 1996 bevr 480 state 1996	1	2	3	4	5	6	7	8
Number of playe	er 3 4 5 6	OFF ON OFF ON	OFF OFF ON ON						
70	0000& 50000 0000& 70000 0000& 90000	-		OFF ON OFF ON	OFF				
Demo Sound	WITH WITHOUT		W- 2000 VIII W- 110 W- 110			OFF ON			
Туре	TABLE UPRIGHT	the best short event channel of					OFF ON		

### SWITCH 2

	1 2 3 4 5 6 7 8
: 1 Coin 1 Credit	OFF OFF
COIN : 1 " 2 "	ON OFF
1 : 2 " 1 "	OFF ON
: FREE PLAY	ON ON
: 1 Coin 3 Credit	OFF OFF
Cóin : 1 " 6 "	ON OFF
2 : 2 " 3 "	OFF ON
: 3 " 1 "	ON ON
Difficulty EASY	OFF
HARD	ON



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# Frontier Spirit of Amusement

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