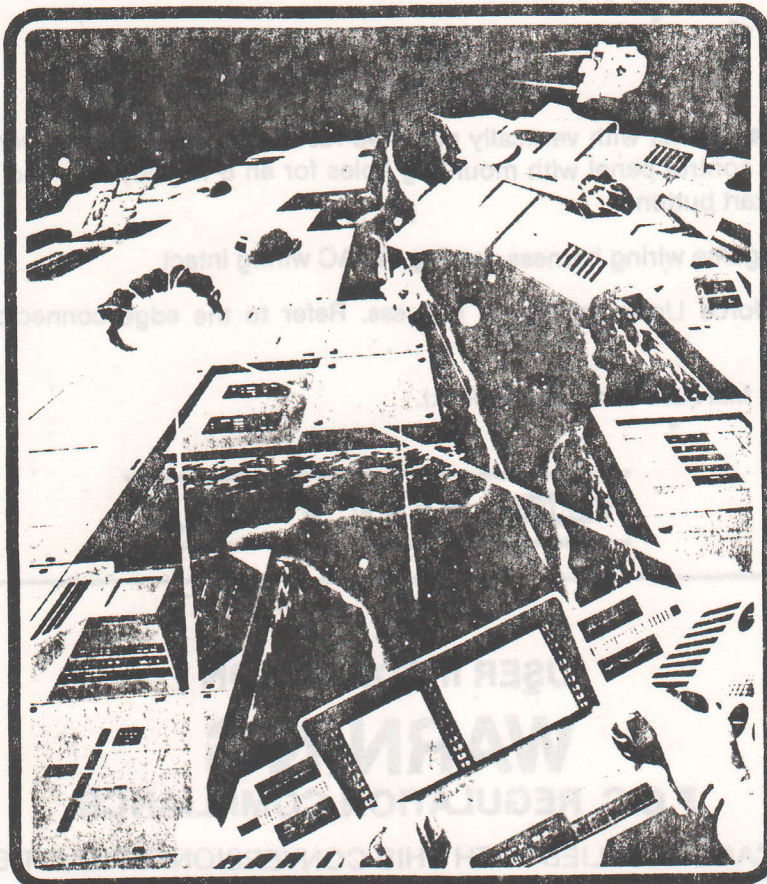


MEGA FORCE

Service Manual



TEHKAN

EXCLUSIVELY FROM



VIDEO WARE, INC.

600 Clover Street, Los Angeles, CA 90031

(213) 225-1337 • TELEX: 295379 TABLEVISION

Toll Free 1-800-VID-WARE

All control circuits are composed of ICs, and though they have a long service life, they may be instantly broken in the event of mishandling. So, fully observe the following precautions.

1. Be sure to turn power OFF when changing parts or pulling/inserting each connector.
2. Don't use the tester to inspect the PC board, since an IC may be broken due to the tester's internal voltage.
3. Be sure never to expose the PC board to the direct rays of the sun.
4. When connecting the connector, be careful so that it is correctly directed.
5. When moving the PC board, use a PVC air mat, etc. so that it is not given a strong shock.

INSTALLATION

Megaforce requires a cabinet with vertically mounted rasterscan monitor, a power supply with +5V and +12V sources, and a control panel with mounting holes for an 8-way joystick and two fire buttons, and one and two player start buttons.

1. Remove existing game wiring harness, leaving the AC wiring intact.
2. Install the Megaforce Universal Wiring Harness. Refer to the edge connector diagram for game wiring.
3. Install Megaforce Marquee and Monitor Plexi.

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USER INFORMATION

WARNING

F.C.C. REGULATION COMPLIANCE

THE P.C. BOARD CAGE SUPPLIED WITH THIS CONVERSION KIT MUST BE UTILIZED AND TERMINATED TO GROUND AT THE TIME OF INSTALLATION.

THIS IS TO AVOID RADIO FREQUENCY RADIATION AND 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.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE — IN WHICH CASE, THE USER AT HIS OWN EXPENSE, WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.

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●Dip Switch

DIP SWITCH 1		1	2	3	4	5	6	7	8
COIN1	1COIN - 1PLAY	OFF	OFF						
	2COIN - 1PLAY	ON	OFF						
	1COIN - 2PLAY	OFF	ON						
	1COIN - 3PLAY	ON	ON						
COIN2	1COIN - 1PLAY			OFF	OFF				
	2COIN - 1PLAY			ON	OFF				
	1COIN - 2PLAY			OFF	ON				
	1COIN - 3PLAY			ON	ON				
ファイナル スターの数 THE NUMBER OF FINAL STARS	3					OFF	OFF		
	4					ON	OFF		
	5					OFF	ON		
	2					ON	ON		
タイプ TYPE	テーブル COCKTAIL TABLE							OFF	
	アップライト UPRIGHT							ON	
デモンストレーション音 DEMONSTRATION SOUND	音有 SOUND								OFF
	音無 NON SOUND								ON

DIP SWITCH 2		1	2	3	4	5	6	7	8
エキステンド EXTEND	50000, 200000, 500000	OFF	OFF	OFF					
	100000, 300000, 800000	ON	OFF	OFF					
	50000, 200000	OFF	ON	OFF					
	100000, 300000	ON	ON	OFF					
	50000	OFF	OFF	ON					
	100000	ON	OFF	ON					
	200000	OFF	ON	ON					
	No	ON	ON	ON					
難易度 DIFFICULTY	NORMAL				OFF	OFF	OFF		
	DIFFICULT 1				ON	OFF	OFF		
	DIFFICULT 2				OFF	ON	OFF		
	DIFFICULT 3				ON	ON	OFF		
	DIFFICULT 4				OFF	OFF	ON		
	DIFFICULT 5				ON	OFF	ON		
	NOT USED				OFF	ON	ON		
	NOT USED				ON	ON	ON		

●ディップSW2のSW7,8は未使用です。必ずOFFにして使用して下さい。
SW7, 8 of DIP SW2 are not used. Be sure to keep them OFF.

●Check Display

ROM Check

When normal, "OK" is displayed, and "ERROR" is displayed when there is something abnormal, in the order of ROM 1~4 (No. 5~2).

When ROM check is OK, there will be an automatic shift to cross hatch. At this time, when pushing the pushbutton in the 1P side, display stops in the state of cross hatch. When pushing the button again, there will be a shift to "Game Display".

MEGAFORCE

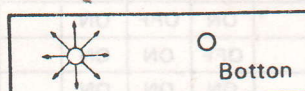
● Edge Connector

SOLDER SIDE (ハンダ面)	NO.	COMPONENT SIDE (部品面)
2P RIGHT	1	2P LEFT
2P UP	2	2P DOWN
2P FIRE.SW	3	
	4	
1P RIGHT	5	1P LEFT
1P UP	6	1P DOWN
1P FIRE SW	7	
	8	
1P START	9	2P START
COIN SW1	10	COIN SW2
GND	11	GND
GND	12	GND
GND	13	GND
SPEAKER (+)	14	SPEAKER (-)
+12V	15	+12V
	16	
+5V	17	+5V
+5V	18	+5V

CONNECTOR KEL-1168-036-009

●ジョイスティックレバー8方向

JOYSTICK LEVER 8 directions



電源 POWER SOURCE

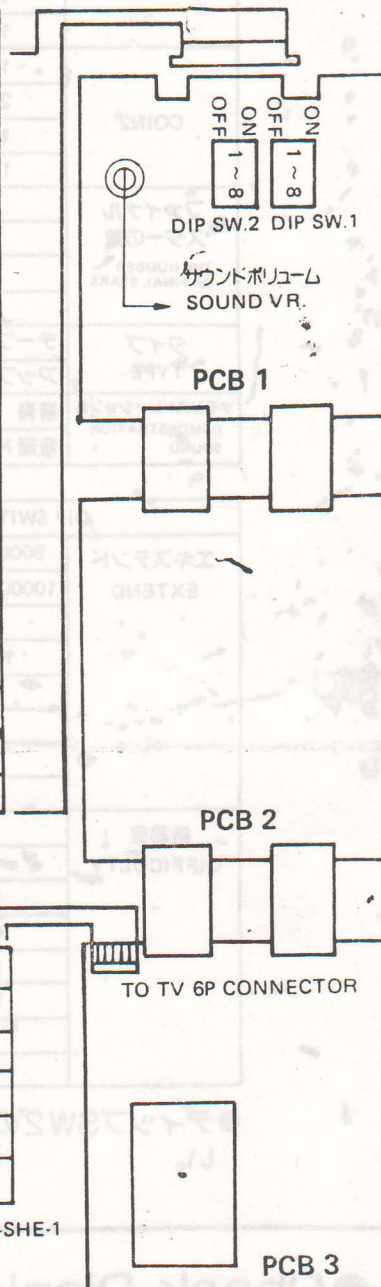
+5V 7A

+12V 1A

(AF Amp. BTL system)

1	BLUE
2	GREEN
3	RED
4	GND
5	SYNC
6	GND

CONNECTOR-S6P-SHE-1



BILL OF MATERIALS MEGAFORCE KIT

Original Printed Circuit Board With Video Ware Warranty card

Marquee Sign

Monitor Plexi

Control Panel Overlay

Pin Assignment and Dip Switch Setting Information Card

4 Complete Button Assemblies

8 Way Joy Stiek

FCC Approved P.C. Board Cage

Game Harness for Megaforce

Beveled, Protective Control Panel Plexiglass