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INSTRUCTIONS



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List of parts included in the kit

1 PC. 1 PC. 2 PCS. 1 PC. 8 PCS. 4 PCS. 4 PCS. 1 PC. 1 PC. 1 PC. 1 PC. 1 PC.	\$10-0254-00 \$30-0079-00 406-0513-00 406-0513-02 515-0018-00 515-0019-00 515-0019-02 515-0019-03 780-5036-00 001-0001-00 830-0079-00	PCB, Avengers in Galactic Storm Marquee, Avengers in Galactic Storm Side Decal, Avengers in Galactic Storm Overlay, Control Panel, Avengers in Galactic Storm Decals, Kick/Punch, Avengers in Galactic Storm Joystick, 8-way. black, Wico, Avengers in Galactic Storm Button, horiz., red, Maxi, Wico, Avengers in Galactic Storm Button, horiz., blue, Maxi, Wico, Avengers in Galactic Storm Button, horiz., 1player, Maxi, Wico, Avengers in Galactic Storm Button, horiz., 2player, Maxi, Wico, Avengers in Galactic Storm Kit Manual, Avengers in Galactic Storm White Video Kit Carton (Box) Box, Parts, Generic
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BEFORE OPERATING THIS CASSETTE

This Cassette is software for commercial use VIDEO GAME only.

CAUTION

- Do not operate this product with anything other than JAMMA standard and / or the accompanying connectors. Use of other connectors may result in fire or damage to Cassette.
- 2. Do not under any circumstances dismantle or modify Cassette. Dismantling or modifying Cassette may result in fire, electric shock, or damage to the unit.
- 3. Do not obstruct the air vents. When in use, do not wrap Cassette in cloth or other materials. Do not install Cassette in such a way that the air vents become obstructed. Cassette will give off heat during normal operation. Obstruction of the air vents may result in fire.
- 4. Do not install in places that are dusty, humid, or are in direct sunlight. Installing Cassette in such places may result in damage to the unit.
- 5. Do not get cassette wet, or touch it with wet hands. Doing so may result in electric shock.
- 6. Always turn the machine off before connecting Cassette. Connecting Cassette while the power is on may result in damage to the unit.
- 7. Do not under any circumstances remove the protective seals from Cassette. Cassette units with removed or damaged seals may not be accepted for repair by Data East.

SPECIFICATIONS

POWER CAPACITY

+5V(±5%) 2.5A +12V(±5%) 1.5A

OPERATING ENVIRONMENTS

OPERATION $5 \sim 35 \, \text{C} / 20 \sim 80 \, \text{% (No condensation)}$ STORAGE $-15 \sim 65 \, \text{C} / 10 \sim 90 \, \text{\%}$

MONITOR

COLOR SIGNALS : R.G.B.

BALK : $0 \sim +0.04 \text{ V}$

PICTURE SIGNAL: +0.04V~+.4.5V SYNCH SIGNAL: 0(0~+0.05V)

TERMINAL

JAMMA STANDARD CONNECTOR (×1) EXT CONNECTOR (×1)

DIMENSIONS

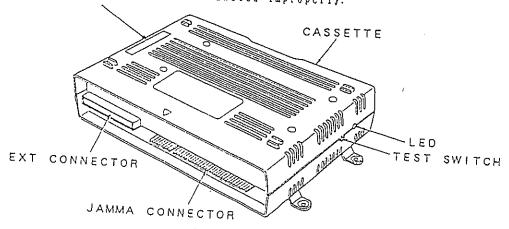
(W) 241mm× (D) 168mm× (H) 58.5mm

WEIGHT

800g

MLC PARTS IDENTIFICATION

May cause burn or other injury if handled improperly.



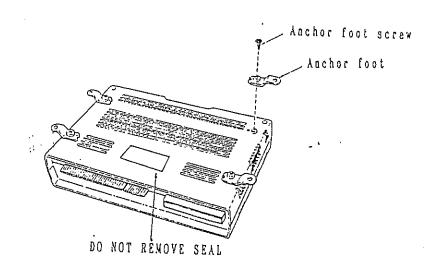
This product generates heat when in operation and may remain hot after electricity is turned off. Do not touch the cassette while in operation or soon after the unit is switched off.

When installing the unit into the game cabinet be sure the JAMMA connector is plugged in correctly, with the parts side facing upwards. Plugging the unit in incorrectly may damage components.

If plugged in incorrectly, turn the unit off immediately.

Re-insert the . JAMMA connector correctly and switch the unit on again.

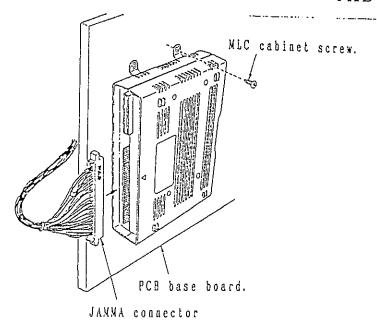
ATTACHING THE MLC ANCHOR FEET



The anchor feet included in the MLC kit are attached to the main unit by using the four anchor feet screws (also included).

When attaching the anchor feet, avoid turning the screws too tightly. Turning the screws too tightly may damage the MLC unit.

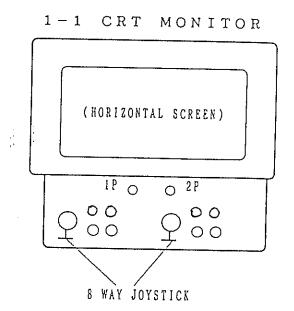
ATTACHING THE MLC UNIT TO THE CABINET

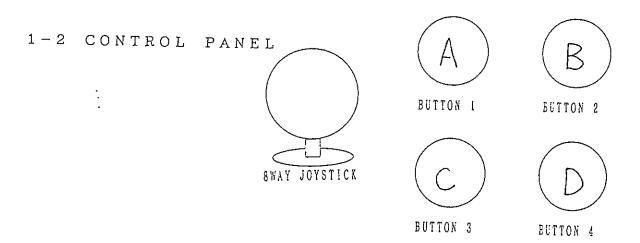


We recommend attaching the MLC unit to the game cabinet in the manner illustrated above.

Always turn off the power before plugging in the connectors. Avoid plugging in the JAMMA connector upside-down.

1. INSTALLATION





BUTTON 1 (PUSH I) FAST PUNCH

BUTTON 2 (PUSH 2) STRONG PUNCH

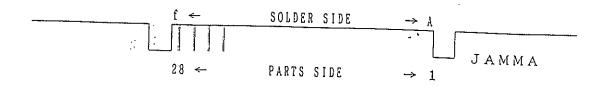
BUTTON 3 (PUSH 3) FAST KICK

BUTTON 4 (PUSH 4) STRONG KICK

2. HARNESS CONNECTION

2-1 TERMINAL NUMBERING

CONNECTOR CR7E-56DA-3.96E(HRS) 3.96mm pitch
1168-056-009(KEL) 3.96mm pitch



2-2 SIGNAL TO TERMINAL

SOLDER	端	子番号	PARTS
SIDE	P 1	_N #	SIDE
GND	A	1	GND
GND	В	2	GND
+ 5 V	C	3	+ 5 V
+ 5 V	D	4	+ 5 V
	E	5	
+ 1 2 V	F	6	+12V
	Н	7	
	J	8	COIN COUNTER 1
(GND)	K	9	(GND)
SPEAKER (-)	L	10	SPEAKER (+)
	М	1 1	
VIDEO GREEN	N	12	VIDEO RED
VIDEO SYNC	P	1.3	VIDEO BLUE
SERVICE SWITCH	R	1 4	VIDEO GND
	S	1 5	TEST SW
COIN SWITCH 2	T	16	COIN SWITCH 1
START SWITCH 2	U	17	START SWITCH 1
2P UP	V	18	1 P U P
2P DOWN	W	19	1 P DOWN
2P LEFT	Χ	20	LP LEFT
2P RIGHT	Y	2 1	IP RIGHT
2P PUSH L	Z	22	IP PUSH I
2P PUSH 2	a	2 3	IP PUSH 2
2P PUSH 3	b	24	LP PUSH 3
2P PUSH 4	c	25	LP PUSH 4
	d	26	
GND	е	27	GND
GND	f	28	GND
×.		MMA	3 . 7 2

Be careful to avoid plugging the JAMMA connector in upside-down.
Installing cassette in upside-down may result in damage to the unit.

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3. TEST MODE

This PCB is equipped with a self-test feature. Self-test will automatically be carried out after turning the game unit on.

An error screen will appear should any malfunction be discovered during the self-test.

WARNING GAME MODE SETTING ERROR

Should the error screen be displayed, please contact either your distributor or Data East Corporation.

PUSH TEST SWITCH TO RESET OPTIONS

4. TEST SWITCH

A small black test switch is located on the side of this PCB. Pressing this switch will bring up the game setting menu. The options available from the game setting menu are; I/O CHECK. GAME OPTIONS, COIN OPTIONS, SOUND OPTIONS. Coin settings, Sound volume setting, etc... can be carried out from these screens.

	MENU
GAME SOUND COIN I/O VERSUS STORY SCREEN COLOR INITIAL	OPTIONS
GAME MO	DE

Game Options and Coin Options can be reset to the default (factory) settings by selecting "YES" at the INITIAL option prompt.

Highlight "GAME MODE" and press the IP BUTTON 1.

5. GAME OPTIONS

Highlight the GAME OPTIONS selection. Press the IP button ((Punch) to enter this screen. Game difficulty levels etc... can be adjusted from this screen.

GAME OPTIONS

SCREEN ROTATION
ATTRACT SOUND
START BUTTON SELECT

NORMAL (REVERSE)
OFF (ON)

START BUTTON (SHOT BUTTON)

EXIT

- O SCREEN ROTATION
- O ATTRACT SOUND Switching to "off" will cancel sound during demo mode.
- O START BUTTON SELECT
 Determines which button will initiate game start.

6 SOUND OPTIONS

Sound output and sound volume can be adjusted at the SOUND OPTIONS screen.

- O SOUND Off
 If you select this the sound will be turned off
- O SE TEST CODE
 Used for testing sound effects code.
- O VOICE TEST CODE
 Used for testing voice code.
- O BGM TEST CODE
 Used for testing background music code.
- VOLUME Used for adjusting sound volume.

7. COIN OPTIONS

Highlight the "COIN OPTIONS" selection and press the 1P button to bring up the coin options menu. The number of credits required for each game can be set from this menu. From the COIN OPTIONS selection, coin, or free play options can be selected.

7-1 GAME START MODE : COIN

	COIN OPTIONS	, ·
GAME START MODE	COIN	
START COIN	[~ 9	
CONTINUE COIN	1 ~ g	
COIN CHUTE	1 (2)	
	↑ ↓	
COIN CHUTE	2 (1)	
COIN MODE		(INDEPENDENT)
EXIT		

- O GAME START MODE
 Coin option settings.
- O START COIN
 Number of coins required to start game.
- CONTINUE COIN Number of coins required to continue game.
- COIN CHUTE
 Coin mechanism settings.
- O COIN MODE
 - 1. CONCENTRATE = Selecting "CONCENTRATE" will pool all inserted coins regardless of coin slot used.
 - 2. INDEPENDENT = Selecting "INDEPENDENT" will activate only the play station connected with the coin slot used.

7-2 GAME START MODE: CREDIT

	COIN OPTIONS
GAME START MODE	CREDIT
START CREDIT	1 ~ 9
CONTINUE CREDIT	1 ~ 9
COIN CHUTE	1 (2)
COIN MODE	CONCENTRATE (INDEPENDENT)
CHUTE #1	1 COIN
	1 CREDIT
CHUTE #2	1 COIN
***************************************	1 CREDIT
XIT	

- O GAME START MODE
 Coin option settings.
- O START CREDIT

 Number of coins required for "START" credit.
- O CONTINUE CREDIT

 Number of coins required to continue game.
- O COIN CHUTE
 Coin mechanism settings.
- O COIN MODE
 - 1. CONCENTRATE = Selecting "CONCENTRATE" will pool all inserted coins regardless of coin slot used.
 - 2. INDEPENDENT = Selecting "INDEPENDENT" will activate only the play station connected with the coin slot used.

CHUTE I (COIN MECH #1) = 1 - 9 coins

l - 9 credits

CHUTE 2 (COIN MECH #2) = 1 - 9 coins

1 - 9 credits

7-3 GAME START MODE: FREE PLAY

Selecting FREE PLAY will allow the game to be played for free (for exhibitions, shows, etc...).

COIN OPTIONS

GAME START MODE

FREE PLAY

WARRANTY INFORMATION:

DATA EAST USA Inc. (Seller), warrants only to the initial purchaser of its products that the items listed below are free from defects in material and workmanship under normal use and service for the warranty periods specified:

1. Printed Circuit Boards (PCB) 90 days.

No other parts of the Seller's products are warranted.

Warranty periods are effective from the initial date of shipment from the Seller to its authorized distributors.

Seller's sole liability shall be, at its options, to repair or replace products which are returned to Seller during the warranty periods specified, provided:

- 1. Seller is notified promptly upon discovery by buyer that stated products are defective.
- Such products are properly packaged and then returned, prepaid to Seller's plant.

This warranty does not apply to any parts damaged during shipping or handling, or due to improper installation or usage, or alteration. In no event shall the Seller be liable for any anticipated profits, loss of profits, loss of use, incidental or consequential damages or any other losses incurred by the customer in connection with the purchase of a Data East USA, Inc. products.

WARRANTY DISCLAIMER

EXCEPT AS SPECIFICALLY PROVIDED IN A WRITTEN CONTRACT BETWEEN SELLER AND PURCHASER, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.