OPERATION



OPERATING MANUAL

Rev. 07-13-10

(Software Version: OPER0713)

Coastal Amusements, Inc. 1935 Swarthmore Ave. Lakewood, NJ 08701 (732) 905-6662

http://www.coastalamusements.com

INTRODUCTION

The coin-operated version of **Operation**TM is a licensed product from Warner Bros., based on the universally popular board game. As in the original board game, the player must "extract" a "body part" to win tickets.

The player tries to "extract" the random body part selected by the game. When a player successfully "extracts" the part, the value is added to the points total. A second body part will be selected, and if the player successfully "extracts" that part, the value will be added to the total points and the bonus multiplier will increase by one. The multiplier will keep increasing for each subsequent body part "extracted" until time runs out. *The faster you play, the more you win!*

OPERATION OPTIONS & SETTINGS

To change settings, press the **ERROR RESET** button located inside the front door. *Operation must be in attract mode to access and change settings*.

The <u>OPTION NUMBER</u> is displayed on the <u>POINTS</u> display. The <u>CURRENT VALUE</u> is displayed in the <u>BONUS AWARD</u> display.

Move the joystick <u>UP</u> to <u>INCREASE</u> the <u>OPTION NUMBER</u>.

Move the joystick <u>DOWN</u> to <u>DECREASE</u> the <u>OPTION NUMBER</u>.

Move the joystick <u>LEFT</u> to <u>INCREASE</u> the <u>OPTION VALUE</u>.

Move the joystick <u>RIGHT</u> to <u>DECREASE</u> the <u>OPTION VALUE</u>.

Press the **LOWER FORCEPS** button to **EXIT** and **SAVE** the settings.

OPTIONS & SETTINGS

#	<u>OPTION</u>	RANGE (DEFAULT)	<u>COMMENTS</u>
1	COINS PER PLAY	1-8	SETS # OF COINS REQUIRED
		(1)	TO PLAY ONE GAME
2	GAME TIME	10-60	SETS MAX. # OF SECONDS FOR
		(30)	ONE GAME PLAY
3	GRACE PERIOD	0-5	SETS # OF SECONDS BEFORE
		(1)	GAME TIME BEGINS
4	ATTENDANT PAY	0-900	SETS MAX. # OF TICKETS TO
		(500)	BE PAID DIRECTLY BY GAME
5	FLAT PAY	0=OFF;	SETS EQUAL TICKET VALUES
		1-10	FOR ALL "BODY PARTS" (WILL
		(0)	OVERRIDE OPTION 9)
6	SOUND IN	0=OFF;	ELIMINATES SOUND WHEN
	ATTRACT	1=ON	GAME IS NOT BEING PLAYED
		(1)	
7	DEMO MODE	0=OFF;	NO COIN(S) NEEDED TO PLAY.
	(5 TICKET PAY),	1=ON	GAME WILL PAY 5 TICKETS.
	NO METERS /	(0)	METERS WILL NOT RECORD.
	COIN ERRORS		
8	MERCY TICKETS	0=OFF;	SETS # OF TICKETS PAID IF NO
		1-10	WINNER RECORDED
		(0)	
9	TICKET SETTING	1-8	VALUES WILL BE SET
		(1)	RANDOMLY AMONG ALL
			TARGETS. SEE TABLE BELOW
			FOR VALUES. (<u>GAME WILL</u>
			RANDOMLY SELECT 13 VALUES
10	TICKET	0 OFF:	WITHIN THE RANGE SET)
10	TICKET	0=OFF;	IF OFF, GAME WILL NOT PAY
	DISPENSER	1=ON (1)	ANY TICKETS
11	VALUE OF COIN	1-200	VALUE OF EACH COIN (IN
11	VALUE OF COIN	(25)	CENTS)
12	VALUE OF TICKET	1-5	VALUE OF TICKET (IN CENTS)
14	VALUE OF HUKET	(1)	VILUE OF HERET (IIV CENTS)
		(1)	

PAYTABLE NUMBER	8	7	6	5	4	3	2	1
VALUES (Distributed Randomly)	14 15 16 17 18 19 20 21 22 23 24 25 26	12 13 14 15 16 17 18 19 20 21 22 23 24	10 11 12 13 14 15 16 17 18 19 20 21 22	8 9 10 11 12 13 14 15 16 17 18 19 20	6 7 8 9 10 11 12 13 14 15 16 17	4 5 6 7 8 9 10 11 12 13 14 15 16	2 3 4 5 6 7 8 9 10 11 12 13 14	1 2 3 4 5 6 7 8 9 10 11 12 13
	27 28	25 26	23 24	21 22	19 20	17 18	15 16	14 15
	X	27	25	23	21	19	17	16

BOOKKEEPING							
(FOR INFORMATION ONLY)							
13	PAYOUT PERCENTAGE	VALUE OF AVG. TICKETS PER GAME DIVIDED					
		BY COST OF GAME (<u>MUST SET PROPER VALUES</u>					
		<u>IN OPTIONS 11 & 12</u>)					
14	TICKETS PER GAME	AVG. # OF TICKETS PAID PER GAME PLAYED					
15	HIT FREQUENCY	PERCENTAGE OF WINS PER GAMES PLAYED					

<u>NOTE</u>: To clear bookkeeping, press the ATTENDANT PAY button while option 13, 14 or 15 is on the displays.

To restore factory settings, cycle the AC power while holding both the ERROR RESET and ATTENDANT PAY buttons for at least 5 seconds.

DIAGNOSTIC MODE

To enter Diagnostic Mode, hold **Attendant Pay** button while powering up the game, until you hear a beep, then release button.

<u>Test 1:</u> The playfield displays will start counting 0-9, and then 10-90 to self-test all of the digits. *This test will repeat until you advance to the next test.*

The **Attendant Pay** button will **advance** you to the next test.

<u>Test 2:</u> The body cavity displays will be numbered from 1 to 13 in a U-shaped pattern to make sure that they are wired correctly.

<u>Test 3:</u> Will light the 'rim' of each cavity on the playfield, starting at 'brain freeze' and working down and up in a u-shaped pattern. *This test will also repeat until you advance to the next test.*

Test 4:

- (1) Will light up the 13 back board lights, one at a time, starting at WRITER'S CRAMP moving counterclockwise to BROKEN HEART;
- (2) then the nose light;
- (3) the front corner LED strips;
- (4) and playfield border LED strips all at once. Again, this test will keep cycling until you proceed to the next one.

<u>Test 5:</u> Will light up the TIME, MULTIPLIER, and SCORE displays on the head. They will all count 0-9 and 10-90, and then the SCORE display will count 100-900.

Test 6: Pressing attendant pay again will show 14, 15, and 16 in those same displays from left to right.

<u>Test 7:</u> Will light up the timer column LED's and turn rows off one by one starting at the top working downward.

<u>Test 8:</u> The final test will check the gantry, the playfield cavities, the coin mechs, ticket dispenser, joystick, switches and meters.

- (1) Use the **joystick** to move the **gantry** in any direction and test the **limit switches**.
- (2) Press the 'drop' button to test the up/down motor and up/down limit switches.
- (3) **Insert a coin** to **advance the coin meter** by one and display either a 1 or a 2 depending on which mech is used.
- (4) Press the **Error Reset** button to **increment the ticket meter** by 3 and dispense 3 tickets. It will also display a 3 on the top display.
- (5) Test the playfield by hooking a wire to GND (the forceps are connected to GND) and touching the bottom of each cavity. The LED's around the cavity should light up and you should hear a 'winner' sound. If you touch the outer rim of a cavity, the nose should light up and you should hear the 'loser' buzzer.

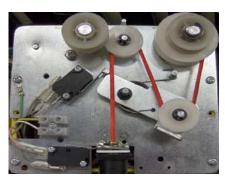
ERROR CODES

"BRAIN FREEZE" light is flashing on back panel on power up: Indicates a TWI communication error.

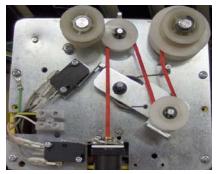
<u>"Er" is visible on the POINTS display and "0" is visible on the MULTIPLIER display</u>: Indicates gantry did not return to the home position, or at least one of the limits switches is not being read.

CORD WINDING

It is possible that the cord connecting the forceps may unwind all the way and wind back up in the opposite direction. If you think that may be the case, compare your gantry to the pictures below:



CORRECT WINDING



INCORRECT WINDING