

Service Manual

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SAFETY AND WARNINGS BEFORE YOU BEGIN

WARNING: WHEN INSTALLING THIS GAME, A GROUNDED A.C. RECEPTACLE MUST BE USED. FAILURE TO DO SO COULD RESULT IN INJURY TO YOURSELF OR OTHERS. FAILURE TO USE A GROUNDED RECEPTACLE COULD ALSO CAUSE IMPROPER GAME OPERATION, OR DAMAGE TO THE ELECTRONICS.

NOTE: THIS GAME IS INTENDED FOR INDOOR USE ONLY.

DO NOT DEFEAT OR REMOVE THE GROUNDING PRONG ON THE POWER CORD FOR THE SAME REASON AS GIVEN ABOVE. USING AN IMPROPERLY GROUNDED GAME COULD VOID YOUR WARRANTY.

HAVE A QUALIFIED ELECTRICIAN CHECK YOUR A.C. RECEPTACLE TO BE SURE THE GROUND IS FUNCTIONING PROPERLY.

THIS GAME IS DESIGNED TO DISSIPATE STATIC ELECTRICITY THROUGH THE GROUNDING PLANE OF THE GAME. IF THE A.C. GROUND DOES NOT WORK, THE GAME COULD DISCHARGE STATIC ELECTRICITY THROUGH THE GAME CIRCUITRY, WHICH COULD CAUSE DAMAGE.

THE POWER SUPPLY IS NOT VOLTAGE ADJUSTABLE. TO OPERATE THE GAME AT VOLTAGES OTHER THAN THOSE IT WAS DESIGNED FOR. PLEASE CONTACT OUR SERVICE DEPARTMENT FOR VOLTAGE CONVERSION INFORMATION.

WARNING

DO NOT remove any of the components on the main board (e.g. compact flash and eproms) while the game is powered on. This may cause permanent damage to the parts and the main board. Removing any main board component part while powered on will void the warranty.

ALWAYS REMOVE POWER TO THE GAME, BEFORE ATTEMPTING ANY SERVICE,

UNLESS NEEDED FOR SPECIFIC TESTING. FAILURE TO OBSERVE THIS PRECAUTION

COULD RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS.

THIS GAME IS NOT SUITABLE FOR INSTALLATION IN AN AREA WHERE A WATER JET COULD BE USED.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

AC Power Information

The games main fuse is accessed through the back of the game at the power mod. Above the power cord is a small panel that contains the main fuse.

The value of the fuse for 120 volt users is 7 AMPS at 250Volt type slow blow.

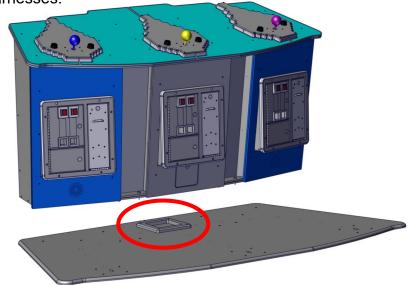
The value of the fuse for 230 users is 4 AMPS at 250 Volt type slow blow.

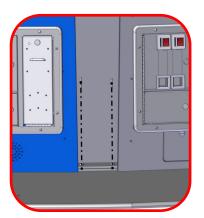
Parts Included: Contact ICE Service if missing



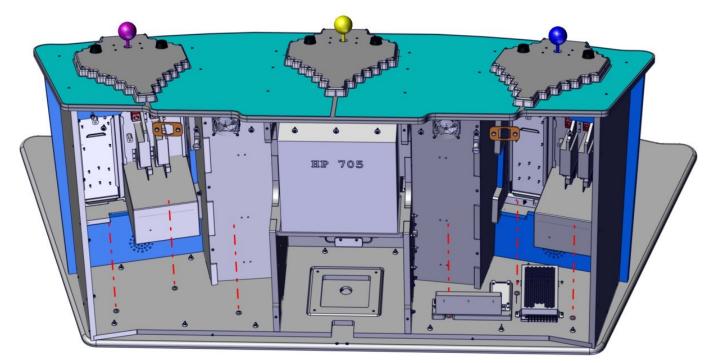
Floor Install: Note: Skip if your floor is already installed

Position the player podium on top of the floor making sure to align the box at the bottom. The player podium will fit into this. Connect the wire harnesses.





From the front and between each player station attach two AA6102 bolts to secure the player podium and AA6959 finish washer.



From the back of the cabinet install, three AA6102 bolts and three AA6823 washer on each side, to secure the player podium to the floor. * Note: Back wood panel and access door removed for clarity.

Seat Install: Note: Skip if your seats are already installed

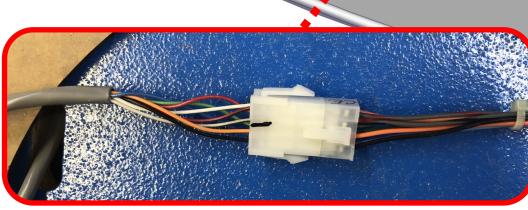
Locate the three seats. Unpackage them.

Connect each seat's harness to the mating end on the floor.

Hardware is located in the hardware kit.

Secure the seat to the floor using four AA6211 bolts, AA6053 lock washers, and AA6212 washers.

Repeat for each seat.



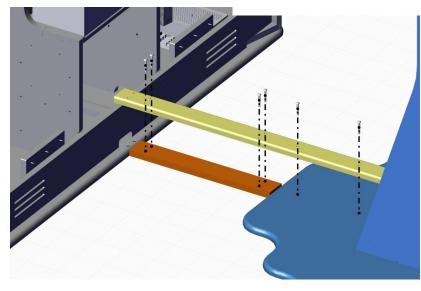
Step 1 - Attach player podium and monitor tower: Lower Bracket Install



Locate the two lower bottom support bracket pieces.

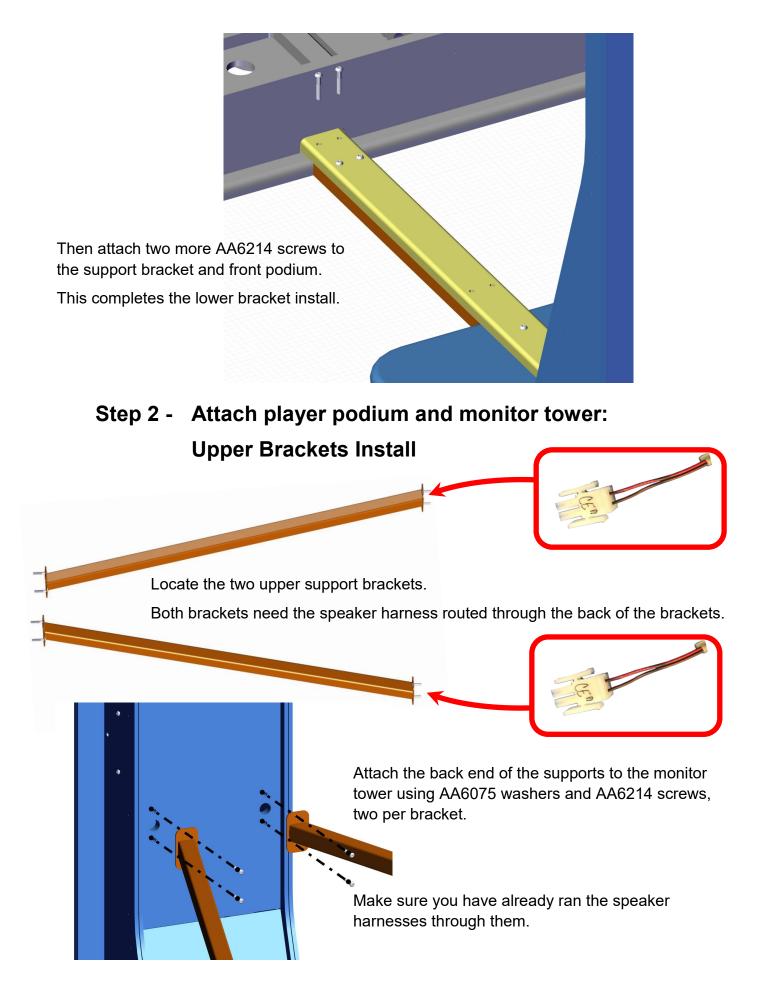
Unlock and open the back door on the player podium stations.

Locate the three harnesses that connect the front podium to the monitor podium. Connect the three harnesses by routing the wires along the bottom against the lower support bracket.



Attach the bottom support bracket using six AA6214 screws. Make sure not to pinch the harnesses attaching.

The harnesses should be run so that they are inside the bottom support bracket.

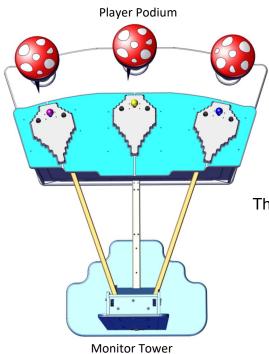


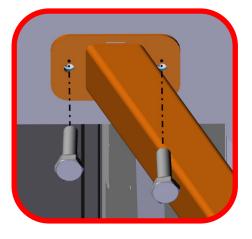
Insert the speaker cables coming from the monitor tower into the player podium on both sides.

Connect the speaker cables to the mating ends inside the player podium cabinet.



Attach the upper support brackets using two AA6049 bolts and AA6075 washers on each bracket.

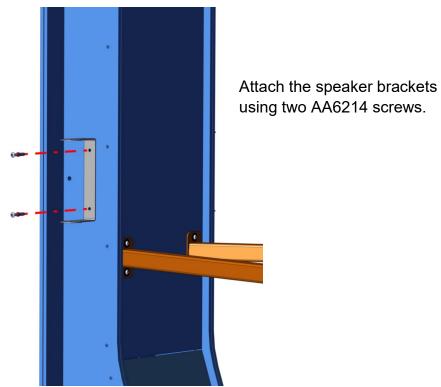


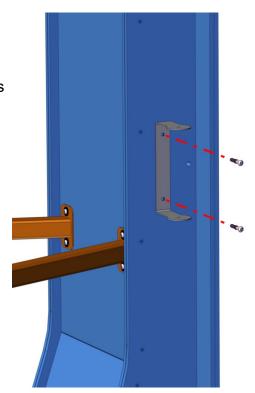


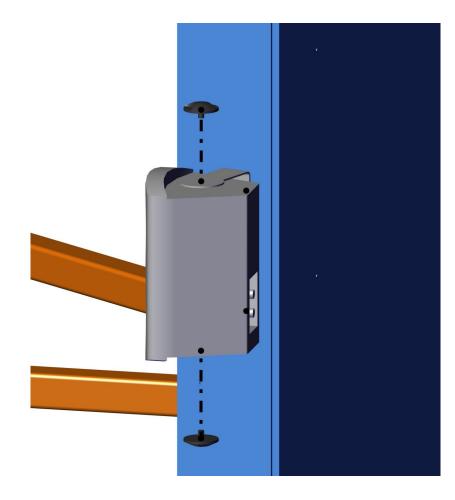
This completes the podium bracket install.

Step 3 - Attach Speakers to the monitor tower:

Skip this if already installed







Then secure the speakers using the provided knobs.



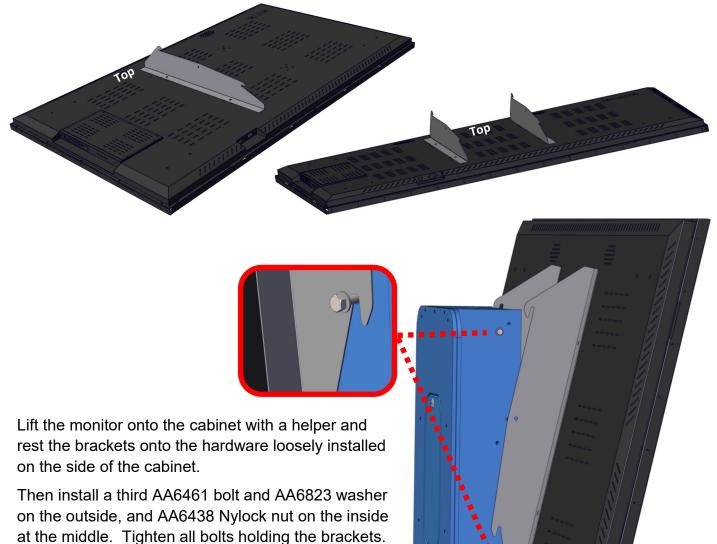
Attach the speakers wires making sure the red speaker wire goes to the (+) connector and brown speaker wire goes to the (-) connector.

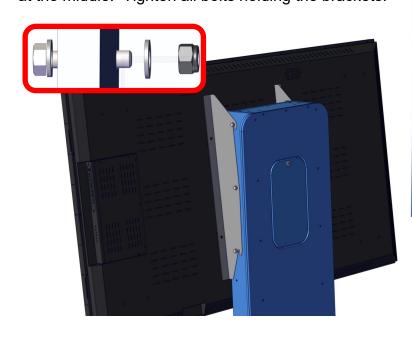
Position the speakers slightly angled out.

This step is completed.

Step 4 - **Attach the monitor to the monitor tower:**

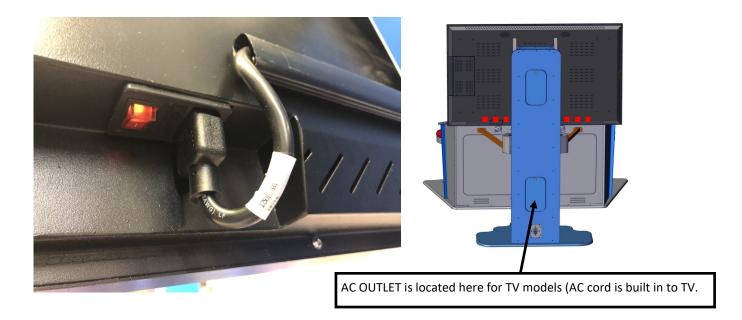
Remove the M8 bolts installed on the monitor. Attach the monitor brackets to the back of the monitor using those M8 screws. Note that they can only be attached as shown (bend out).





Connect the AC harness to the bottom of the monitor. Make sure the power switch is switched on.

Attach the wiring tracks included with your game to the back of the monitor, both sides. This is shown with the dotted red line. Insert the AC wire into the left track and click shut. On some units, the AC cord is attached to the monitor and cannot be removed. On those units you will find at the bottom of the monitor tower the AC outlet to plug the monitor into.



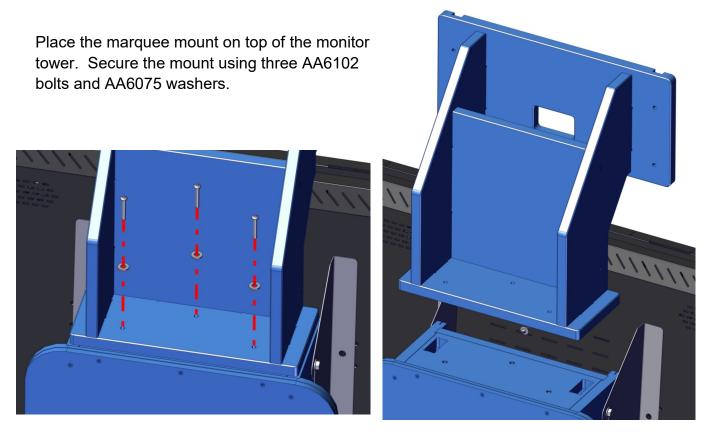
Unlock the side access panel and attach the HDMI connector. The keys are tapped to the backside of the game. If using a TV, plug the HDMI connector into HDMI 1.



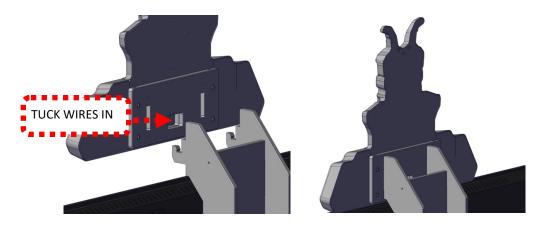


Secure the wiring under the Panduit covers and snap close. This completes the monitor section.

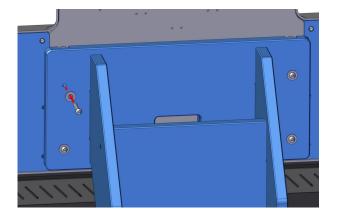
Step 5 - Attach the Marquee to the monitor tower:



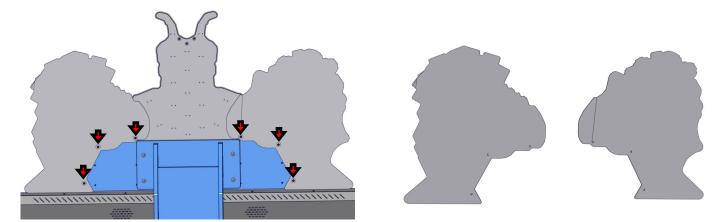
Tuck in all wiring except the long single grey harness. Lift the marquee assembly on to the hook at the top of the marquee mount. The hooks slide into the back of the marquee.

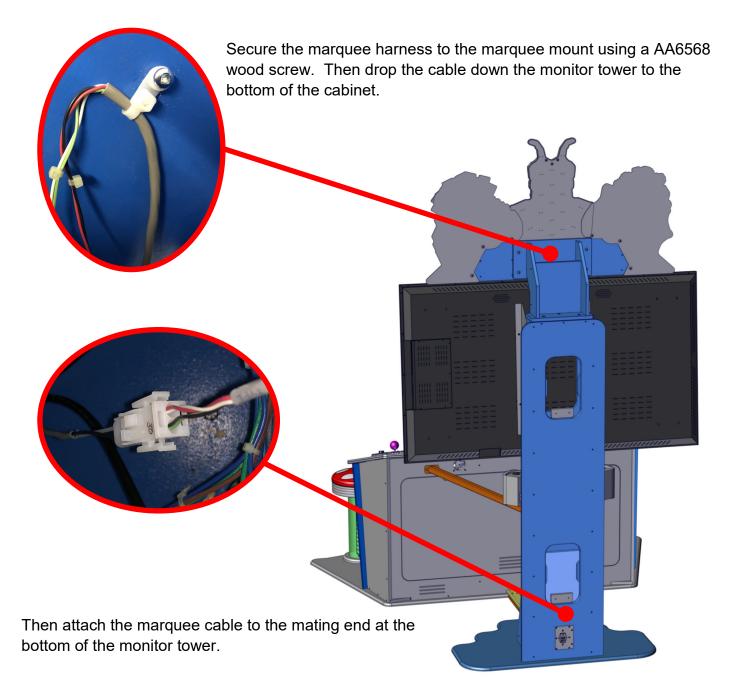


Then secure the marquee to the mount using four AA6102 bolts and AA6075 washers.



Then secure the marquee sides to the marquee using four AA6211 bolts and AA6212 washers.







Universal Card link Connection

See Wiring Insert for wire colors and which connections are used.

Pin 1. +12v- Supply to Card System = Minimum of 2A available for the card systems and a Max of 3A.

Pin 2. Coin 1 - input to the game PCB.

Pin 3. Prize Meter/Ticket Notch 2- is connected to the Ticket Notch line between the game PCB and ticket dispenser. Optional.

Pin 4. Coin Meter 1 - is connected to the coin meter 1 output from the game PCB and can be used by card systems for monitoring purposes.

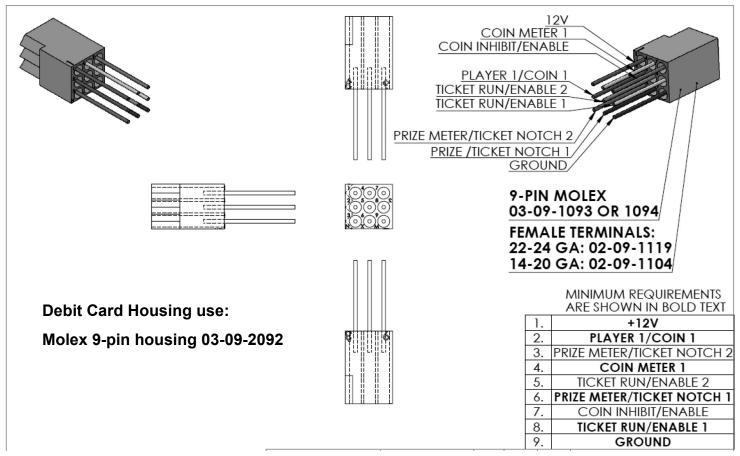
Pin 5. Ticket Run/Enable 2- is connected to the ticket run line between the game PCB and ticket dispenser. Optional.

Pin 6. Prize Meter/Ticket Notch 1- is connected to the Prize or Ticket Meter output from the game PCB and can be used by card systems for monitoring purposes. Optional.

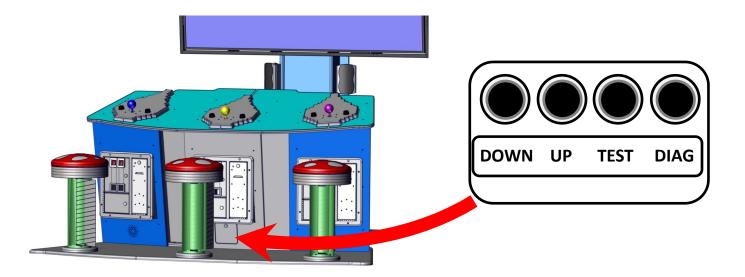
Pin 7. Coin Inhibit/Enable- is connected to the Coin or Note Inhibit/Enable output from the Game PCB and is used where the game has this feature for disabling any payment. This is normally for states like New Jersey that limit the amount of money that can be inserted at one time.

Pin 8. Ticket Run/Enable 1 - is connected to the ticket run line between the game PCB and ticket dispenser in standard redemption games. This is commonly used for systems using paperless or E-ticket. Not Used if the game doesn't have this output.

Pin 9. Ground- is connected to the common Ground connection, the same ground as the Game PCB.



Program Software Settings



Located at the front of the player podium, at the bottom of the center player's station, is a small access door. Unlock and open this door. Located there is the operator control panel. This will allow you to adjust your settings.

Press the "DIAG" button during attract mod to enter program options.

PRESS "UP" and "DOWN" to move through menus.

PRESS "TEST" to select a menu.

Suggestive Settings

Cost of Game	Ticket Value	Minimum Tickets per Game	Tickets per 10,000 points	Mega Bonus	Avg Tickets
\$2.00	\$0.01	15	45	1000	55 - 60
\$1.50	\$0.01	10	30	1000	40 - 45
\$1.00	\$0.01	5	20	500	25 - 30
\$0.50	\$0.01	3	10	250	10—15

Main Menu

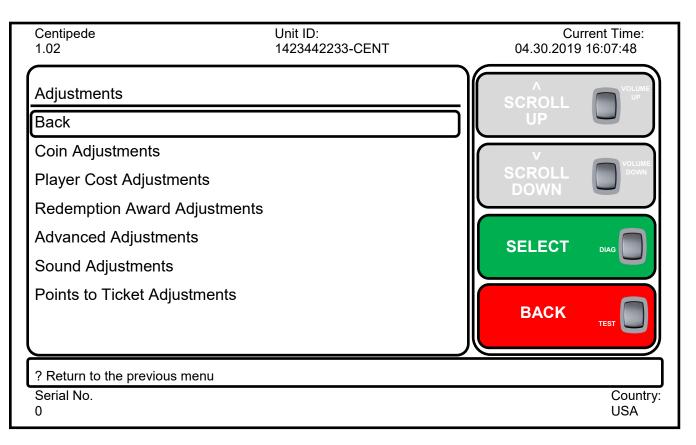
Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Main Menu		
Exit		
Adjustments		V
Audits		
Resets		
System Information		
Tests		
Utilities		
? Exit Test Menu		
Serial No. 0		Country: USA

• Adjustments menu contains the options to customize your game.

All options should be verified before operation.

- Audits menu provides statics of game play, money collected, and tickets among other things.
- Resets menu will allow you to reset tickets owed, credits accumulated, or audits, and more.
- System Information and Tests are menus to be used when servicing your game.
- Utilities copies data to a thumb drive. Internal use only.

Adjustments Menu



- Coin Adjustments menu allows you to change the type of currency and what each pulse is worth in that currency. For example if selecting "Card swipe" for currency type, you would set the value of that swipe to what you wish to charge the player.
- Player Cost Adjustments menu allows you to set the cost of play or free play.
- Redemption Award Adjustments allows you to set various options on how the game rewards players with tickets.
- Advanced Adjustments are for internal use only and should not be adjust unless told otherwise by an ICE tech.
- Sound Adjustments menu allows you to change volumes for attract and game.
- Points to Ticket Adjustments menu sets the amount of tickets won per score.

Adjustments Menu - Coin Adjustments

Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Coin Adjustments]	
Back		UP U
Currency Type	Swipes	V
Coin Slot 1 Value	1 Swipes	
Coin Slot 2 Value	1 Swipes	
DBV Pulse Value	1 Swipes	
Service Credit Value	1 Swipes	
Swipe Value	1.50	BACK TEST
? Return to the previous menu		
Serial No. 0		Country: USA

- Currency Type option informs the game what type of money you are accepting.
- Coin Slot 1 Value option sets the value for each pulse from coin 1 line.
- Coin Slot 2 Value option sets the value for each pulse from coin 2 line.
- DBV Pulse Value option sets the value for each pulse from DBV line.
- Service Credit Value set the value of the service switch.
- Swipe Value sets the money value of the swipe. This option changes depending on currency set.

Adjustments Menu - Player Cost

Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Player Cost Adjustments		
Back		UP U
Freeplay	Off	V
Game Cost	4 Tokens	
		BACK
? Return to the previous menu		
Serial No. 0		Country: USA

PRESS "UP" and "DOWN" to move through menus.

PRESS "PROG" to select a menu.

- Free Play options allows players to play without inserting money.
- Game Cost sets the amount needed to start a game.

Adjustments Menu - Redemption Award

Centipede 1.02	Unit ID: 1423442233-CENT	Cur 04.30.2019	rent Time: 16:07:48
Redemption Award Adjustments			VOLUME
Back		UP	
Award Label	Tickets	V	VOLUME
Ticket Award Mode	Variable Amount (Default)	SCROLL DOWN	DOWN
Min Ticket per game	1		
Ticket Value	\$0.0100	SELECT	
Ticket Multiplier	1		
Cap Ticket Payout	Off		
Show Ticket Count during Game	On	BACK	TEST
)		
? Return to the previous menu			
Serial No. 0			Country: USA

- Award Label sets the verbiage used in game. Tickets, coupons, or points.
- Ticket Award Mode sets how the game pays tickets.
- Min Ticket per game options sets a minimum amount of tickets for each game played.
- Ticket Value determines the cost of each ticket paid.
- Ticket Multiplier allows you to pay 1/2 tickets when using 2 point tickets or two cent tickets.
- Cap Ticket Payout allows you to set the maximum amount of tickets paid at any given time.
- Show Ticket Count during Game options allows you show the tickets counting down.

Adjustments Menu - Advanced

Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Advanced Adjustments		
Back		UP U
Black Wasp Appear Time	40	V
Shield Time	5	
Mega Spider Difficulty	Med	
Set Play Mode	Stop After Mega Bonus	
		BACK
? Return to the previous menu		
Serial No. 0		Country: USA

PRESS "UP" and "DOWN" to move through menus. PRESS "PROG" to select a menu.

- Black Wasp Appear Time sets how long the wasp stage lasts.
- Shield Time sets how long the shields last
- Mega Spider Difficulty option determines how hard the spiders are during play. Easy, medium, and hard stay at that level while dynamic adapts to player skill.
- Set Play Mode option allows you to end the game after the bonus or continue forever.

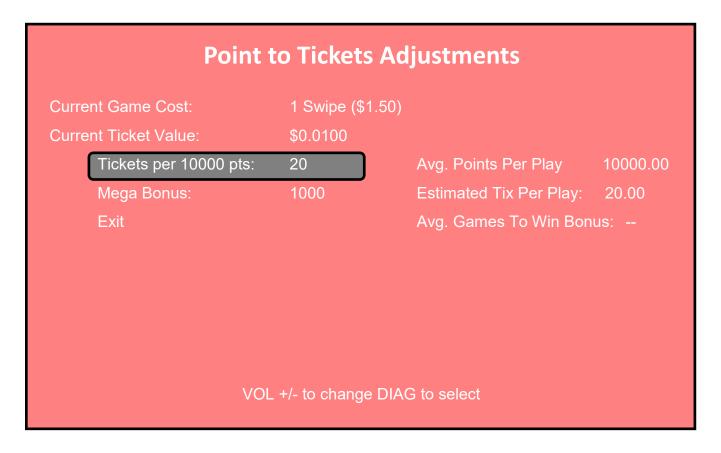
It is not recommended to change any of these two settings without the advice of ICE service department.

Adjustments Menu - Sound

Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Sound Adjustments		
Back		UP 🖳
Game Volume	25	V
Attract Volume	20	
Attract Sound Frequency	Occasionally	
		BACK TEST
? Return to the previous menu		
Serial No. 0		Country: USA

- Game Volume sets how loud the game sound and music can be.
- Attract Volume sets how loud the attract volume can be.
- Attract Sound Frequency determines if sound is present or not in attract mode.

Adjustments Menu - Points to Tickets



PRESS "UP" and "DOWN" to move through menus. PRESS "PROG" to select a menu.

• Tickets per 10000 points sets how many tickets will be paid when 10, 000 points are scored. This is based on the average points scored during play. The estimated tickets will be generated based on average points scored.

Audits Menu

Centipede 1.02	Unit ID: 1423442233-CENT	Current Time 04.30.2019 16:07:48	:
Audits			
Back		UP U	J
Coin Audits		V	
System Audits			
Gameplay Audits			1
Escrow			
Wave Tracking Audits			
Redemption Award Audits			
			!
? Return to the previous menu			
Serial No. 0		Cour USA	

- Coin Audits shows the money inserted for each player station.
- System Audits shows various system information.
- Gameplay Audits shows various information about the game play.
- Escrow shows how many tickets are stored toward the bonus.
- Wave Tracking Audits shows various information about each wave played.
- Redemption Award Audits shows the tickets paid.

Resets Menu

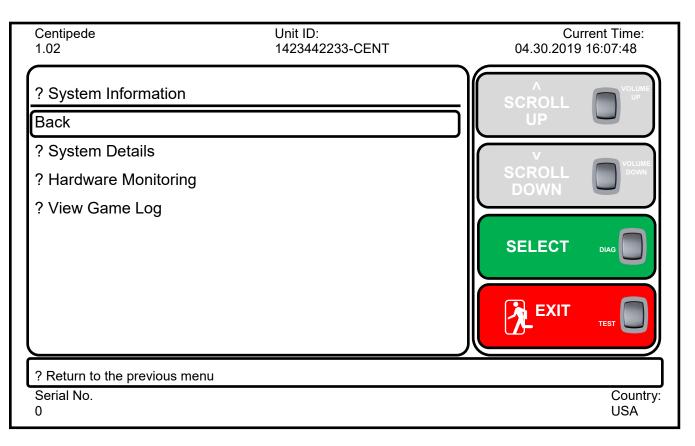
Centipede 1.02	Unit ID: 1423442233-CENT	Cur 04.30.2019	rent Time: 16:07:48
Resets		ہ SCROLL	VOLUME
Back		UP	
! Reset Credits		V	VOLUME
! Reset Coin Audits		SCROLL DOWN	Down
! Reset Adjustments		bonn	
! Reset Gameplay & Ticket Aud	its	SELECT	
! Reset Tickets Owed		OLLEOT	
! Reset Hardware Monitoring Da	ata		
! Factory Reset			TEST
? Return to the previous menu			
Serial No. 0			Country: USA

PRESS "UP" and "DOWN" to move through menus.

PRESS "PROG" to select a menu.

- Reset Credits
- Reset Coin Audits
- Reset Adjustments
- Reset Gameplay & Ticket Audits
- Reset Tickets Owed
- Reset Hardware Monitoring Data
- Factory Reset

System Information Menu



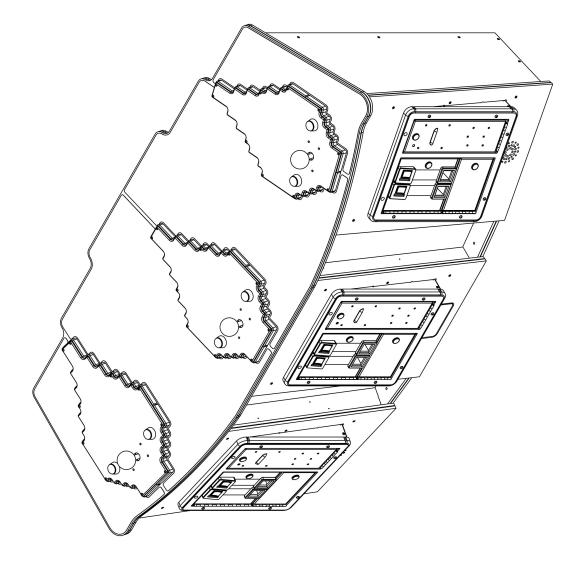
- System Details shows various information about the system
- Hardware Monitoring shows various information about the computer and its hardware.
- View Game Log reports various information about the game's software interaction.

Tests Menu

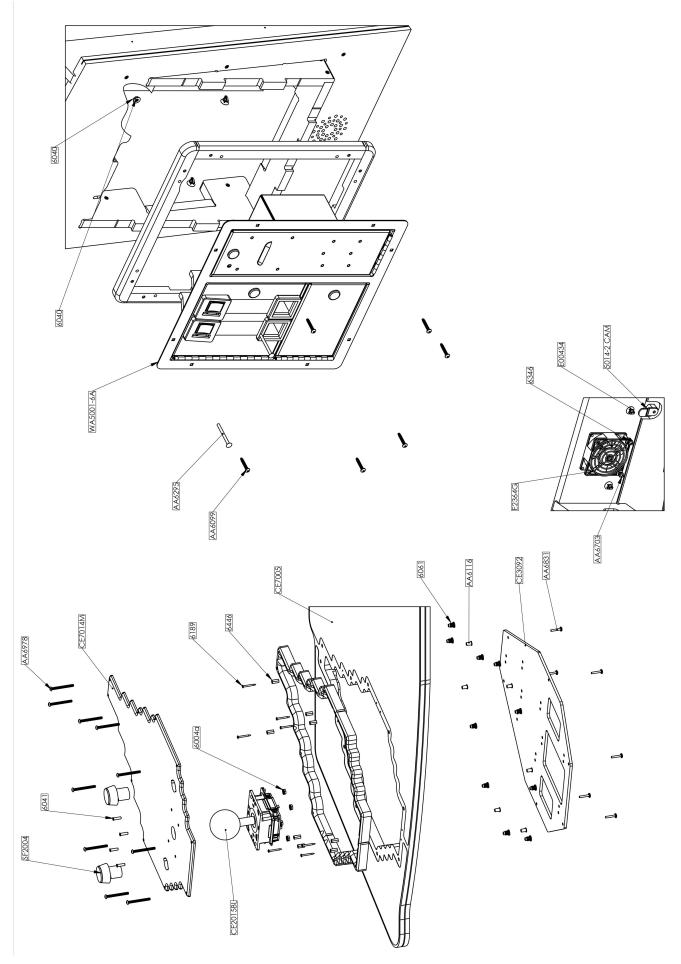
Centipede 1.02	Unit ID: 1423442233-CENT	Current Time: 04.30.2019 16:07:48
Tests		
Back		UP
Input Tests		V
Video Tests		
Coin & Ticket Meter Test		
Lamp Test		
File Test		
Ticket Dispenser Test		
Sound Test		
? Return to the previous menu		
Serial No. 0		Country: USA

- Input Tests allows the testing of the various devices on the game.
- Video Tests displays various screens for checking the monitor.
- Coin & Ticket Meter Test advances the meters for testing/
- Lamp Test will light all lights for testing.
- File Test checks the status of the files on the hard drive.
- Ticket Dispenser Test will advance tickets to each station for testing.
- Sound Test will play sounds for testing.
- Watchdog Test will reboot the computer to test the function if the computer locks up.

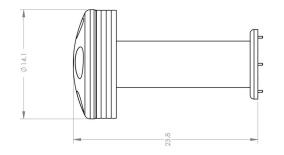
Control Panel Assembly Drawings

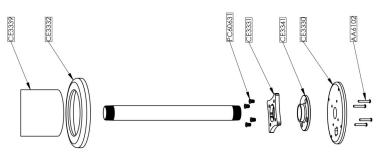


_	CE3050CX		
5	CE_ROCKET_BLUE		-
e	CE3092		e
4	CE_ROCKET_YELLOW		-
5	CE_ROCKET_PURPLE		-
9	CE3048	LED HOLDER LEFT	-
7	CE3049	LED HOLDER RIGHT	-
80	CE3008	COIN DOOR BORDER	m
6	WA5001A7X	COIN DOOR (TRIPLE) DUAL MECH W/ TICKET	e
10	CE7003M	PODIUM DIVIDE LEFT	-
11	CE7004M	PODIUM DIVIDE RIGHT	-
12	CE7005		-
13	DJ2000X	MODEL 705	-
14	E00788TLEX	ASY (LED STRIP LARGE WHITE 7 CUTS)	2
15	E00788PNKX	E00788ARBX	-
16	E00788_PNCX	ASY (LED STRIP LARGE WHITE 7 CUTS)	-
17	E02364	SMALL AC FAN	2
18	E2364G	FAN GUARD (FG-8) METAL 80MM (ROHS)	4
19	6446	8-32 x 1/2 HH SPACER	34
20	6189	#2 X 1" LG. PPHMS	24
21	PC60643	6-32 x 1/4 HH SPACER	œ
22	WE2034X		-
23	GF2010	POWER SUPPLY (MEAN WELL)	-
24	KF2011CX	PCBA FUSE BOARD 6 X 5 AMP	-
25	6713	6-32 x 1.5 PEM STUD (FH-632-24ZI)	4
26	AA6831	8-32 X 3/4 PPHMS	18
27	E00434	CABLE TIE HOLDER BARBED WITH ZIP TIE	42
28	BA1016	GADPT-SP-320 POWER SUPPLY BRKT	2
29	E01562	8 POS TERMINAL BLOCK	-
30	CE3093	ELECTRONIC BOARD	-
31	CE3094	TERMNAL CVR	-
32	5014	7/8" CAMLOCK	m
33	AA6703	#8-32 x 2-1/4" LG PPHMS (18-8SS)	9
34	6346	HJNUT 8-32	9
35	655S	#8 x 5/8 SQ. DRIVE (SILVER)	5
36	6041	8/32 x 5/8 PEM STUD FH 832-10	-
37	6300	8/32 × 1 1/4 PEM STUD FH 832-20	9
38	6061	8-32 CAB INSERT (J-50111)	R
39	AA6099	10 X 1-1/4 PHTMS FULL THREAD TORX	18
40	AA6295	10-24 x 2-1/4" LG. CARR. BOLT	9
41	6020	#10 FLAT WASHER USS (#12 SAE)	9
42	6040	10-24 KEP NUT	9
43	AA6978	AA6978	8
44	MT1090	COMBINATION BRACKET	-
45	CE3089	FRONT ACCESS	-
46	CE3086	FRONT DOOR CLEAT	٣



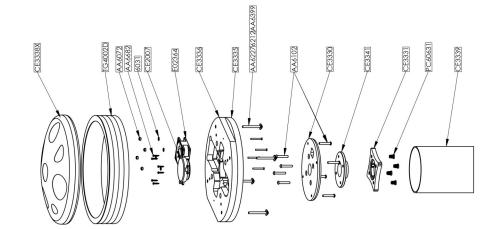
7	7	-	-	12	-	-	-	-	-	7	-	12	4	œ	-	4	4	80	4	9	-	4	4
FLANGE EXTENSION	NUT RETAINER	BASE TRIM RING	TUBE, Ø6" OD, 1/8" WALL, 18.25" LG	025-20 CABINET INSERT (J50115)	CE2007	SHAKER MOUNT	SEAT CROSS BRACE	UPHOLSTERED CUSHION	SEAT TRIM RING	1-1/2" NPT FLOOR FLANGE	1-1/2" X 20" NIPPLE	1/4-20 X 1-1/2 BSHCS (ZINC)	1/4-20 X 2-1/2 BSHCS BOLT	5/16 LOCK WASHER GR8	SMALL AC FAN	DRYWALL SCREW 1.25	1/4-20 x 1-1/4" LG. BSHCS	1/4 × 3/4 FLAT WASHER BLACK (USS)	8-32 X 1-1/2 PFHMS	6 X 3/4 PPHMS	SPIRAL WRAP GRAPHIC	#8-32 NYLOCK NUT	#8 FLAT WASHER (ZINC)
CE3330	CE3331	CE3332	CE3339	PC60631	CE2007	CE3335	CE3336	CE3338X	TG4002D	CE3341	CE3340	AA6102	AA6227	AA6399	E02364	6030	6211	6212	AA6359	AA6682	CE7002	AA6072	6031
-	2	e	4	2	9	7	œ	თ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

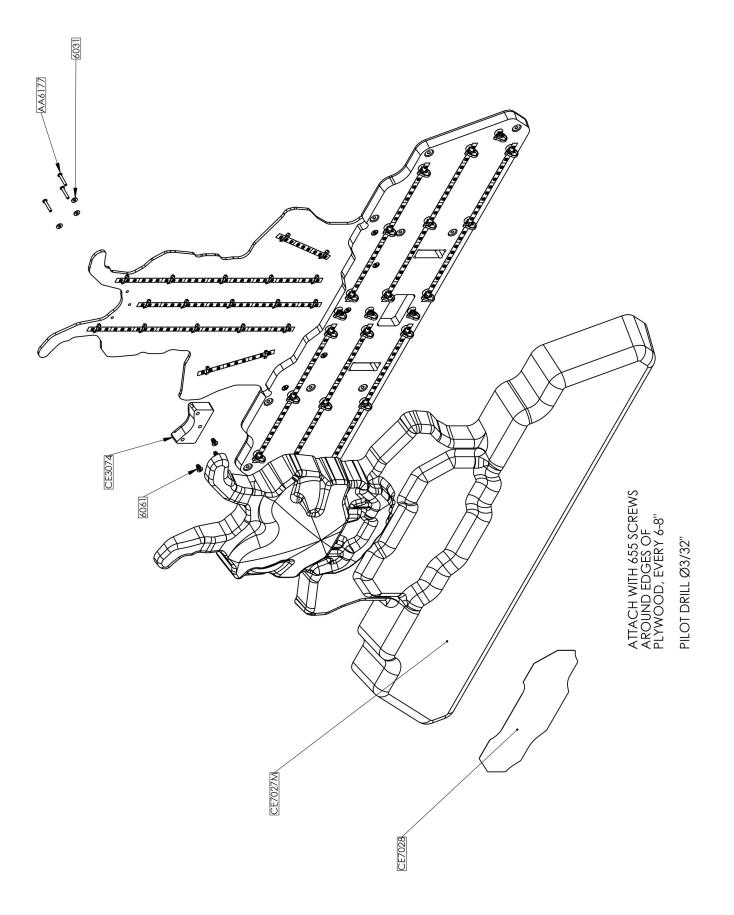


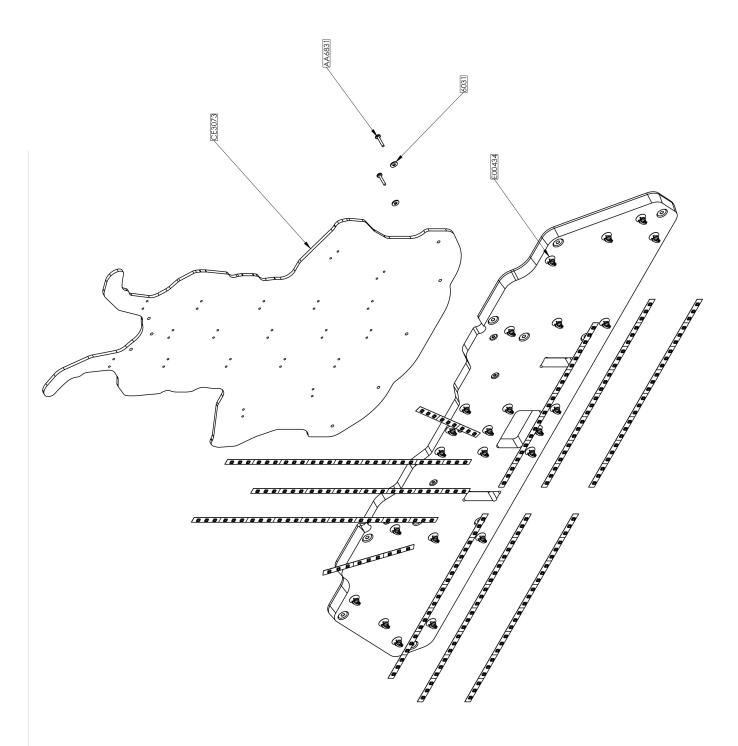


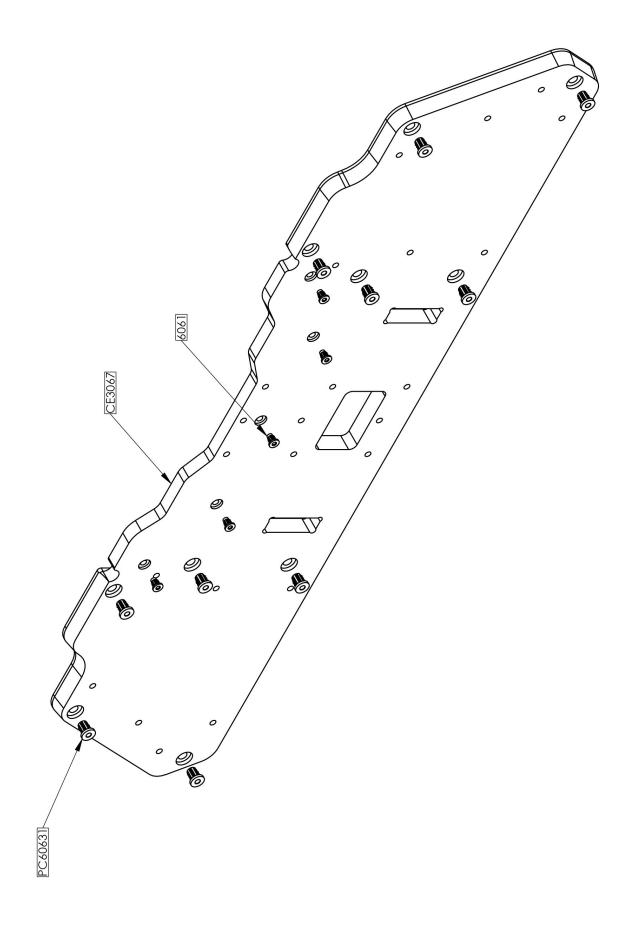


CE7002









Centipede Recommended Spares

Joystick Set:

CE2015BL	Blue
CE2015YL	Yellow
CE2015PR	Purple
DJ2000CEX	Computer
WE2034X	Rio II board
GF2010	Power Supply
KF2011PNCX	fuse board
ZS2006	amp
E02111	Relay
E00972	7amp fast blow fuse (used in KF fuse board)
E00240	7amp Slow Blow fuse (120V main fuse only)
E00038	4amp Slow Blow fuse (230V main fuse only)
MON75	Monitor 75"
E02364CEX	Fan (Seat and cabinet)
CE2007X	Seat Shaker
CE2006	Speakers



I.C.E. Inc warrants all components in new machines to be free of defects in materials and workmanship for the period listed below:

- 180 days on Main PCB's, Computers & Motors
- 1 year on all LCD monitor panels
- 90 days on all other electronic and mechanical components
- 30 days on all I.C.E. repairs and parts purchases

I.C.E. Inc shall not be obligated to furnish a warranty request under the following conditions:

- Equipment or parts have failed through normal wear and tear
- Equipment has been subjected to unwarranted stress, abuse or neglect
- Equipment has been damaged as a result of arbitrary repair/modification

Products will only be covered under warranty by obtaining an I.C.E. authorized RMA #. To obtain an RMA # please provide I.C.E. tech support with the game serial # or original I.C.E. invoice # and a detailed description of the failure or fault symptoms.

I.C.E. Inc will assume no liability whatsoever for costs associated with labor or travel time to replace defective parts. All defective warranty covered components will be replaced with new or factory refurbished components equal to OEM specifications.

I.C.E. Inc will cover domestic UPS ground, or comparable shipping costs during the warranty period. International or expedited shipments are available for an additional charge. To obtain credit defective parts must be returned to I.C.E. Inc, at the customer's expense, within 30 days. After 30 days a 15% re-stocking fee will apply to all returns.

ICE distributors are independent, privately owned and operated. In their judgment, they may sell parts and/or accessories other than those manufactured by I.C.E. Inc. We cannot be responsible for the quality, suitability or safety of any non-I.C.E. part or modification (including labor) that is performed by such a distributor.

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