The Incubator Company

Equipping your Hatchery for success

Dr. Keith Bramwell with

Phillip Perry and Henry Kohl

Hatchery Consultants

David Hammond and Kirk Dawkins

North America Sales





Todays Presentation

- Equipping your Hatchery for success
 - The proper tools needed
 - Spare parts and PM schedules
 - Inventory management, and the corrosive effects of chemicals
 - Generational changes, and updating your hatchery



JAMESWAY ESSENTIAL HATCHERY TOOLS





Basic Hand Tools

THE BITTER TASTE OF POOR QUALITY LINGERS LONG AFTER THE SWEETNESS OF LOW PRICE IS FORGOTTEN.





Basic Hand Tools

- Screwdrivers
- Pliers
- Wrenches-SAE
- Drill with bits
- Voltmeter
- Flash Light
- Socket Set
- Measuring Tape



Specific Tools Multi-Stage

- HA1145 Rack Tester
- Clamp Amp Meter
- PT100 Calibration Tool

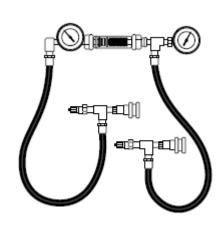






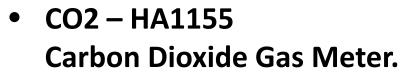
Specific Tools Single-Stage

- Water Flow Tester
 - 1. Brass Couplers HA1143P
 - 2. Plastic Coupler HA1153
 - 3. Shark Bite HA1160

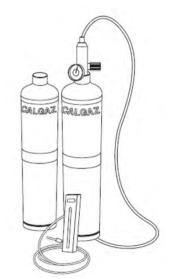




Shark Bite ½" Disconnect Tongs



- CO2 Calibration Gas
 - 1. 5000 ppm CO2 (Balance Nitrogen)
 - 2. Nitrogen
 - 3. Regulator Flow Rate 0.50 LPM







Temperature Calibration

- Temperature HA1070
 Digital Therm & Plastic Probe
- Temperature/Humidity HA1152
 Digital Therm with Humidity Probe
 (HA1165 Strap Probe)









Ventilation Tools

- HA1150 Handheld Digital Manometer
- HA1149 Thermo-Anemometer
- Multimeter
- Electrical screwdrivers







SPARE PARTS MANAGEMENT





The Industry is Faced with Two Challenges

- Generational change in Management, Maintenance, and General Labor
- 2. Multi-Stage Incubation equipment in North America is 40 plus years old on average



Two Types of Hatchery Maintenance

- Reactive Maintenance
- Preventative Maintenance (pro-active)



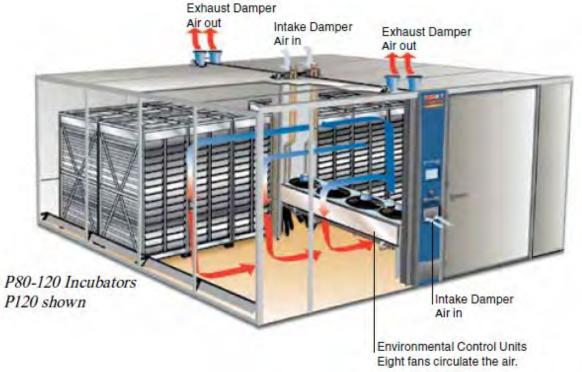
Understanding by Maintenance

- Need to understand the principles of the Jamesway Multi-Stage machine (Crossbar temps, cabinet pressures, exit end temps, calibrations)
- Need to understand how maintenance of the Machine impacts the proper operations of the Jamesway Multi-Stage Incubator
- Need to know which parts need routine replacing to minimize loss of efficiencies
 - Spray nozzles, curtain panels, gaskets, door seals, incubator racks



"Maintenance is Key to Optimizing the Incubation Environment"







HVAC Life Expectancy

- Ventilation type equipment typically lasts
 15-25 years when well maintained
- It usually becomes easier to replace unit rather than replace parts
- Control systems can become outdated





Recommended SPARE PARTS - MS

- Electro-Mechanical
- PT-100
- PS 501

CW HATC			
PB4319	2C917 BLOWER 230V 60/50HZ	1	ea
AB6181	MOTOR ASSY PT100 HATCHER 220V	2	ea
AB6190	MOTOR ASSY INC 220V CCW NO PLUG	2	ea
PB5997	FAN 16" 4 BLADE 32 DEG CW /A	2	ea
AB3493	SPRAY ASSEMBLY	2	ea
AB5672	RESERVOIR ASSEMBLY	1	ea
PB1791	MALE CONNECTOR 3/8T-1/4PT	2	ea
PB2955	DAMPER MOTOR MOD.#M436A1090	1	ea
PB4345	1" X 1.5" GASKET	30	ft
PB4529	LIQUID TIGHT CONNECTOR	2	ea
PB1756	GASKET 1/2" X 1"	30	ft
PB1766	GASKET 1/4" X 1/2"	30	ft
PB4616	DOOR GASKET	30	ft
PB2940	HEAT RING	1	ea
PB1892	MOTOR MOUNT	1	ea
PB3746	OUTLET 3 WIRE W/SCREW	1	ea
PB5039	PLUG BRYANT	1	ea
	PEOLITICA CICTERIA DE LOCAL ODITO		



1 1 100 1				
PE SMA102	PT100 SYSTEMBOARD ASSY, SPARE	1	Obsolete	
PE PT2266	CIRCUIT BREAKER 2 POLE 15A	1	ea	
AE PB4224	SWITCH (FANS) (3-WAY)	2	ea	
PEPB4225	SWITCH (LIGHTS) - MOMENTARY	2	ea	

Recommended SPARE PARTS - SS

P2 - RECOMMENDED BASIC SPARE PARTS

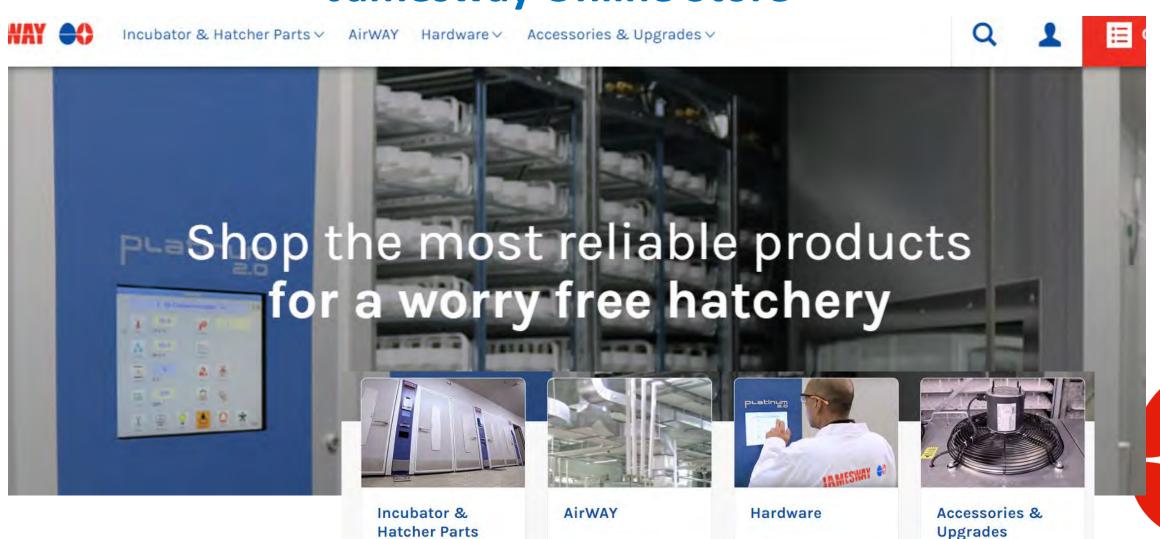
OTHER RECOMM	ENDED PARTS:					
	Part #	Description	Quantity		Quantity	
cne m	URNING SYSTEM				1	cs
ron II			2		1 3	eb
	PB5777	24VAC MAC Valve	1		1	es
	PB32942	Air cylinder(Use to be PB5589)	1	ea	1	es
	PB4390	Foster Brass connector	1	ea	1	-
	PB3294	Compression nut with femule	5	ea	5	
	P4254	1/4"Black tubing	25	feet	1	es
	P4253	1/4" Clear tubing	25	feet	1	ea
					à	es
FOR D	OORS				1	en
	1000379	Pre-cut Door Sweep Gasket	2	ea	1	es
	M87839	Floor Seal Profile (Alum.)	1	ea	1	ea
		,			1	es
	FOR FANS CONTROL (Select the approprite voltage)					
FUR FA	The second secon			10.00	1	es
	1002462	Programmed Drive 1 Ph , 200-240VAC	1	ea	1	ea
	1002461	Programmed Drive 3 Ph , 200-240VAC	1	68	1	es
	1002460	Programmed Drive 3 Ph , 380 - 480 VAC	1	ea	1	ea
					1	es
FOR E	-				5	feet
	PB6245	Fan Motor 220 VAC, 3 Phase	1	ea	2	es
	PB6246	Fan Motor 380-460 VAC, 3 Phase	1	ea	2	en
	PB5142	Fan Blade 32, 4 Blade CW	1	ea	2	ea
	PB5143	Fan Blade 32, 4 Blade CCW	1	ea	2	ea
	PB5952	ECU Motor Mount	1	ea	30	feet
	PB30585	Gas Spring Cylinder	4		1	es
	PB6154	Hairpin Heater 220V.2000W	1	ea	1	es
	PB6133	Hairpin Heater 480V, 2000W	-		1	ea
		The state of the s	1	ea	1	es
	PB30417	Hairpin Heater 380V, 2000W	1	ea	1	ea
					1	es

- ACI
- P1
- P2.0 (24VAC)
- P2.0 (24VDC)



PT2427 Breaker 20A, 3 Pole (220V-Elec. Heat) 1
PT2425 Breaker 13A, 3 Pole (380V-Elec. Heat) 1
PB6244 3 Pole AC Contactor 24 VAC (Electric Heated) 1

Jamesway Online Store



Shop Products >

Shop Products >

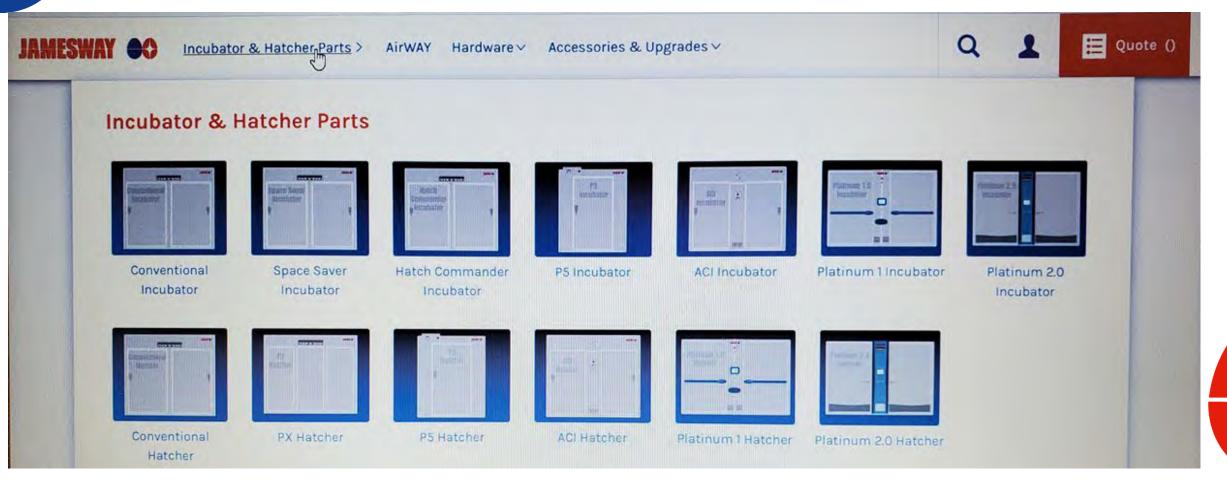
Shop Products >

Shop Products >



Incubator and Hatcher Parts

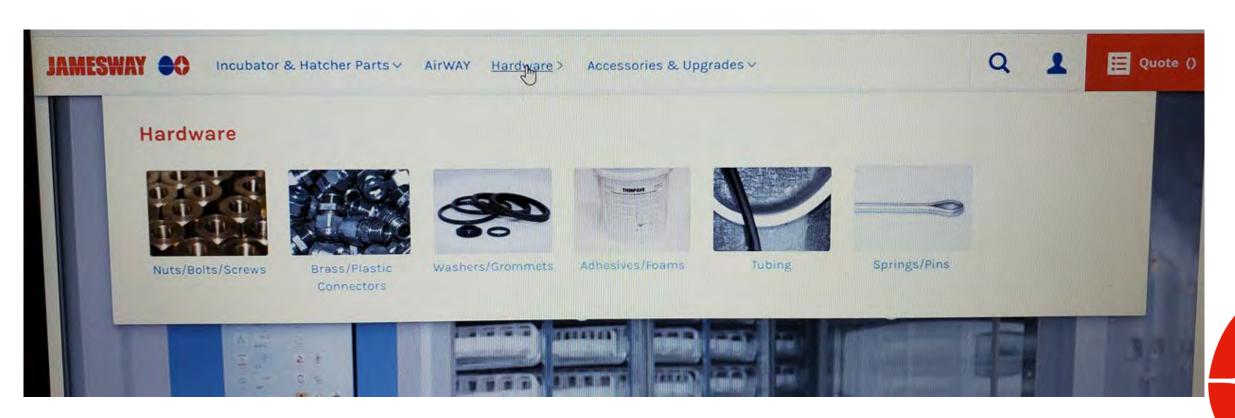
If you can not find the part you are looking for just give us a call





Hardware

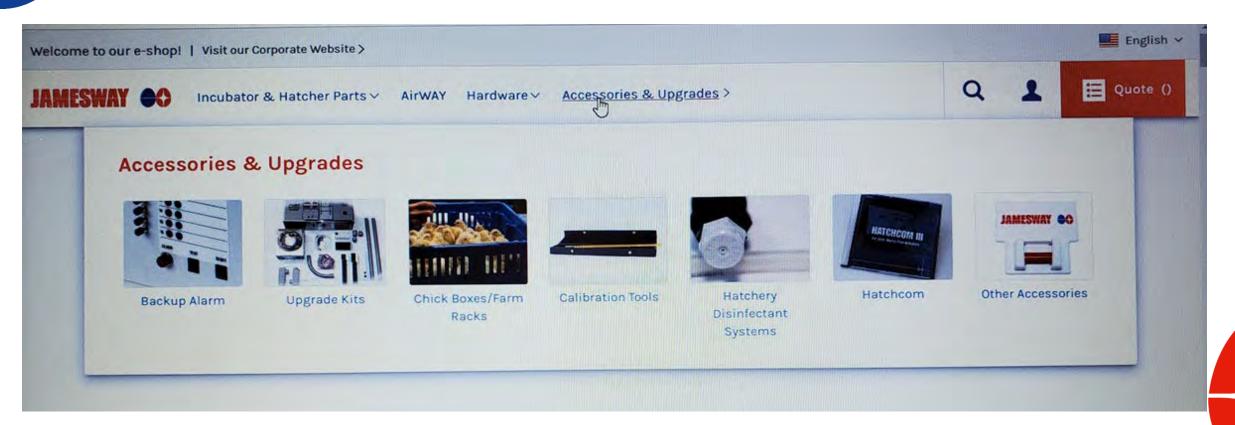
If you can not find the part you are looking for just give us a call





Accessories and Upgrades

If you can not find the part you are looking for just give us a call





Spare Parts Template

Online Store:

• WWW.Jameswayparts.com

After hours parts number:

519-624-4646

Company Name		Jamesway Requeste		
Address		1105 C Technology Drive	Date:	
		Indian Trail North Carolina 28079		
Phone #	:	800-438-8077	Contact:	Danny Walker
		800-203-2299	Contact:	Ronald Roxar
ONLINE OF	iveking:			
Item #	Quantit	Item Description	Price Each	Total Price
PB5146	9	ACIMeter	\$300.80	\$2,707.20
PB6246	9	Platinum Motor	\$220.00	\$1,980.00
1002553	4	VFD	\$507.20	\$2,028.80
PTA417 ₂	1	Board	\$1,120.00	\$1,120.00
PB5142	5	CW Fan Blade	\$37.60	\$188.00
PB5143	5	CCW Fan Blade	\$40.00	\$200.00
PB4742	5	1/2 Plug	\$21.60	\$108,00
PB4743	5	1/2 Spekat	\$55.20	\$276,00
SMA103S	2	Damper Board	\$497.60	\$995.20
AB6292	4	Female To Female	\$64.80	\$259.20
AB6291	4	Malo To Fomalo	\$61.60	\$246.40
AB6291	4	Malo To Malo	\$61.60	\$246,40
PT1141	3	Tamp Proba	\$71.20	\$213.60
PB4390	20	Forter Socket	\$10.40	\$208,00
PB4993	3	Long ECU Hore	\$117.60	\$352.80
SMA110	1	Conversion Board	\$800.00	\$800.00
PB4593	3	Mac Value ACI	\$91.20	\$273.60
PB4805	100	1/2 Cail Clamp	\$0.80	\$80.00
PT2416	1	Touch Scroon Control Board	\$157.60	\$157.60
AB6293	4	Mala to Famala Crossovar Drop	\$57.60	\$230.40
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
		Total		\$12,671.20
		Froight		\$727.38
		Grand Tatal US		\$13,398.58



Recommended MS PM Schedule

Monitoring Schedule for Incubators

All of the items mentioned below should be checked, as scheduled.

Refer to page 101 for additional notes.

Actual readings should be recorded and compared with the optimum.

All other items should be assessed as to their operating condition - either satisfactory or unsatisfactory.

Unsutisfactory would include not operating properly, excessive wear, dirt or any potential problem, Items, not in satisfactory condition, should be repaired or replaced, and/or cleaned prior to further use.

Items	to be Checked		Time Schedule			
Ш			Immediately After Every Set	Every 3 Hours After Set	Twice Daily	Daily
A) Ter	mperature Calibration					
1. Dis	play reading	°F or °C				
2. Ch	eck reading	°F or °C				
 Se 	t point	°F or °C				
B) Hu	midity Calibration					
1. Dis	play reading	HH °FWB	or FCWB			
2. Ch	eck reading	RH. FWB	or °CWB			
3. Se	t point	HH FWB	or °CWB			
C) Ge	neral Machine					
1. Po	sition of egg mack against t	he venturi	0			
2. Ru	bber baffle condition		0			
3. Cu	rtain condition		O			
4. Cu	rtain position		0			
5. He	at rods		0			
6. For	n rotation		0			
7. Mo	tor off switches		0			
8. Do	ors seal properly		0			
9. Do	ors latch properly		0			
10. Do	or gasket condition		0			
11. Th	reshold gasket condition		0			
12. Th	reshold position		0			
13. Sp	ace Saver intake duct pos	ition	0			
14. Eg	g turning mechanism			0		
15. Au	dible alarms					
16. Sp	ray nozzles, no excessive	dripping				
17. Sp	my nozzle pattern 60°					

Monitoring Schedule for Hatchers

All of the items mentioned below should be checked, as scheduled.

Refer to page 102 for additional notes.

Actual readings should be recorded and compared with the optimum.

All other items should be assessed as to their operating condition – either satisfactory or unsatisfactory. Unsatisfactory would include not operating properly, excessive wear, dirt or any potential problem. Items,

not in satisfactory condition, should be repaired or replaced, and/or cleaned prior to further use.

Items to be Checked	Time Schedule		
	Pre-Transfer	Twice Daily	Daily
A) Temperature Calibration			
1. Display reading	°F or °C		
2. Check reading	°F or °C		
3. Set point	°F or °C		
B) Humidity Calibration			
1. Display reading	RH *FWB or *CWB		
2. Check reading	RH *FWB or *CWB		
3. Set point	RH *FWB or *CWB		
C) General Machine			
1. Fan blade condition	0		
2. Fan blade spacing	0		
3. Fan rotation	0		
Heat rings	0		
6. Hatcher rack track condition	0		
7. Hatcher rack track position	Ō		
8. Doors seal properly	0		
9. Doors latch properly	0		
10. Door gasket condition	0		
11. Threshold gasket condition	Ö		
12. Threshold position	0		
13. Spray nozzles, no excessive	dripping		
14. Spray nozzle pattern 60°	0		

Monitoring Schedule for Ventilation

All of the items mentioned below should be checked, as scheduled.

Refer to page 102 for additional notes.

Actual readings should be recorded and compared with the optimum.

Investigate any inconsistent readings.

Items to be Checked		Time Schedule	
Record in each plenum		Twice Daily and Twice Nightly	
A) Magnehelic Gauge			
1. Display reading	in.w.g or Pa	0	
2. Check reading	in.w.g or Pa	0	
Optimum pressure	in.w.g or Pa	0	
B) Temperature			
Display reading	°F or °C	0	
2. Check reading	°F or °C	0	
 Optimum temperature 	°F or °C	0	
C) Humidity			
Display reading	RH °FWB or °CWB	0	
2. Check reading	RH °FWB or °CWB	0	
3. Optimum humidity	RH °FWB or °CWB	0	



Recommended SS PM Schedule

All other items shou	uid be recorded and comp		duled.		
All other items shou	AND DESCRIPTION OF THE PARTY OF	ared with the o	otimum.		
	ld be assessed as to their o			entisfactory or or	satisfactory
	ld include not operating p				-
	ctory condition, should be				
Items to be Checke	d	4-1-1-1	Time Sc	hadula	
nems w be offene		Incubators	Hatchers	Both, Every	Both, Ever
		After Every Transferi Wash	Monthly endanctes wookly	3 Months	6 Months
Temperature Calibrati	on	THEORY		_	_
1. Display reading	°For °C	0	O.		
2. Check reading	°F or °C	0	0		
3. Setpoint	°F or °C	0	o		
Humidity Calibration	THE WAY				
1. Setpoint	RH °FWB or °CWB	0	0		
2. Display reading	RH 9FWB or 9CW	0	0		
3. Check reading	RH "FWB or "CWB	0	0		
Carbon Dioxide Calib	ration				
1. Setpoint	% or ppm	0	D		
2. Display reading	% or ppm	0	D		
Check reading	% or ppm	Ö	D		
Compressed Air	7.77				
Reading		0	D		
2. Water build up?		0	D		
3. Tank-drain		Ó	D		_
General Machine					
Doors seal prope					
 Doors latch prope Door pasket cond 		ò			
 Door gasket cond Door sweep cond 			•		
 Caulking - all join 					
6. Damper zero pos					
	g properly. See page 105.				
8. Damper slides no					
 Damper opening: 		0	0		
The second secon	uipped) operating properly				
11. Water hose conn	and the second second second	0	0		
12. Water hose coup	lings	0			

Items to be Checked	Time Schedule			
	Incubators After Every Transfer/ Wash	Hatchers Monthly	Both, Every 3 Months	Both, Even 6 Months
General Machine				
13 Air lines	0			
14. Air connections	D			
15. Temperature sensor condition				
16. RH sensor				
17. RH cover				
18. CO, sensor (optional)				
19. CO ₂ cover (optional)				
Environmental Control Unit (ECU)				
Fan condition (vibration?)	D	0		
2. Fan rotation	D	0		
Heating and cooling coils	.0	O		
4. Heating and cooling quick connect couplers		0		
Switch off power to control box! Fallure to Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay	box be clean a	and free of any and wires will	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by pool	box be clean a	and free of any and wires will	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by pool 1. Control box - clean, vacuum if required	box be clean a	and free of any and wires will	dirt (especially r discolour if there	is excessive
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Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by poor 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections	box be clean a	and free of any and wires will	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by poor 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary	box be clean a	and free of any and wires will	dirt (especially r discolour if there	is excessive
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Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by poor 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board ondition 6. Board plugs firmly seated 7. Wiring condition 8. Water manifold and valve condition 1. Control Screen Britons	box be clean as, connections	and free of any sand wires will Problems sho	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Expessive heat usually is osused by poor 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board condition 6. Hoard plugs firmly seated 7. Wiring condition 8. Water manifold and valve condition 10.00th Screen Editions 1. ECU Fan button	bax be clean is, connections connections.	and free of any and wires will Problems sho	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by poor 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board condition 6. Board plugs firmly seated 7. Wining condition 8. Water manifold and valve condition [cuch Screen Buttons 1. ECU Fan button 2. Turn button 1.	bax be clean is, connections on ections.	and free of any and wires will Problems sho	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat: Excessive heat usually is caused by pool 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board condition 6. Board plugs firmly seated 7. Wiring condition 8. Water manifold and valve condition touch Screen Editions 1. ECU Fan button 2. Turn button 3. Alarm by pass button	box be clean of sections.	and free of any and wires will Problems sho	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by pool 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board condition 6. Board plugs firmly seated 7. Wining condition 8. Water manifold and valve condition [Couch Screen Buttons 1. ECU Fan button 2. Turn button 3. Alarm by-pass button 4. Alarm silence button	bax be clean is, connections on ections.	and free of any and wires will Problems sho	dirt (especially r discolour if there	is excessive
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Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by pool 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board condition 6. Board plugs firmly seated 7. Wiring condition 8. Water manifold and valve condition 1. ECU Fan button 2. Turn button 3. Alarm by-pass button 4. Alarm silence button 5. Emergency shut off	bax be clean of sections of the connections.	and free of any s and wires will Problems sho	dirt (especially r discolour if there	is excessive
Note: It is absolutely necessary that the control and moisture for proper operation. Boards, relay heat. Excessive heat usually is caused by pool 1. Control box - clean, vacuum if required 2. Control box - check for moisture 3. Lid assembly, relays and connections 4. Board - clean, vacuum if necessary 5. Board - clean, vacuum if necessary 6. Board ophidis from the condition 6. Board plugs firmly seated 7. Wiring condition 8. Water manifold and valve condition 1. ECU Fan button 2. Turn button 3. Alarm by pass button 4. Alarm silence button Console	bax be clean of sections of the connections.	and free of any s and wires will Problems sho	dirt (especially r discolour if there	is excessive



Read the Operations Manual

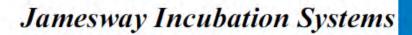




Jamesway Incubation Systems

Platinum Single-Stage

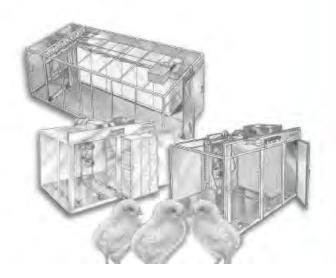
Operations Manual for Chicken



Chicken Operation Manual for Multi-Stage Systems

Optimizing Multi-Stage Incubator Performance Addendum







Follow the Troubleshooting guide

TROUBLESHOOTING CHARTS ALARM RELAY YES. If there on Alarm Retay alarm? The attirm reby feedback agrail does not have with relay's current state. Check feedback wires from KA-4 and KA-7. Silence alarms to slear this alarm. Turn on bypass switch inside console, by · Replace faulty bypast switch LED EL on SMAJIT board it? Replace 5MA113 perult board Is embel bypass light on console door lit? · Follow Status Lights troubleshooting doort furn off bypass switch inside console and Replace faulty bypass switch. on main screen, is LED E1 on SMATTE Replace SMA111 comit from d. board it? Sience alarms so that marm relay status Replace U25 driver chip on SMA111 with PT1041. indicator is not visible on the screen. Replace SMA111 circuit board. Measure DE voltage across KA/B (+) and KA-A I-). Is voltage approximately 12 VDC7 Is marm relay KA coll activated? · Replace garm relay. YES-Create an audible a arm so that status Replace U26 driver chip on SMA111 with PT1041, Indicator is visible on main streen. Replace SMA113 cymil bown Missaure DC voltage across KA-B (+) and KA-A () is voltage approximately 12 VDC? Is LED 56 on SWA111 owen le? . Check if warm ruley stuck in the position, iteplace. Replace SMA111 circuit board · Cherx relay feedback wiring Silence alarms again, is LED 16 or SWA111 board st? Replace SMA113 clycust brans. Marm relay system is working normally · Errent external alarm system wining for possible



Any hatchery, regardless of it's size, age or location, is only as good as it's routine and preventative maintenance programs





INVENTORY MANAGEMENT





Organizing Spare Parts

Practical spare part management is the foundation for reliable hatchery operation and is crucial to its success.





Spare Parts

Properly storing and organizing spare parts in a designated, secure space is beneficial when a crucial part needs replaced.

Spare parts lists are available.

When in doubt...Throw it out!





PRESERVING OUR EQUIPMENT







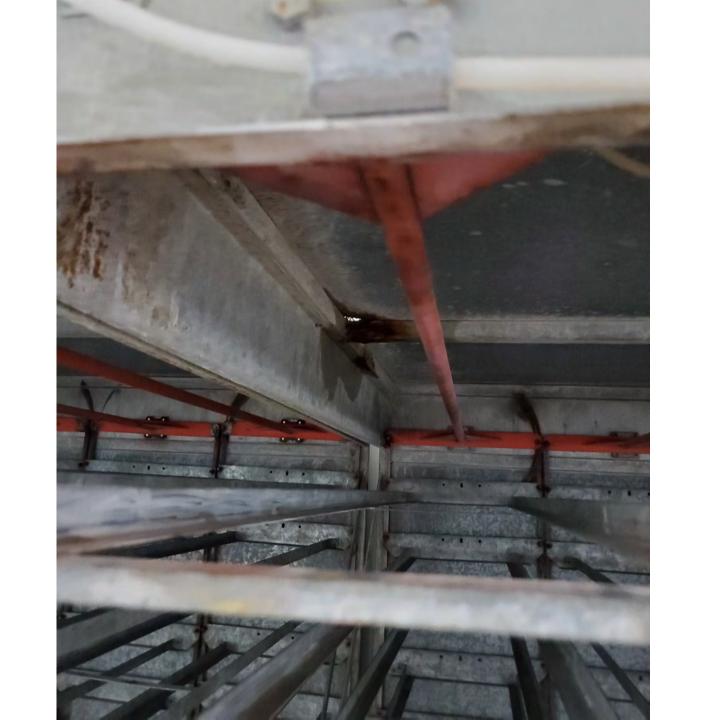
































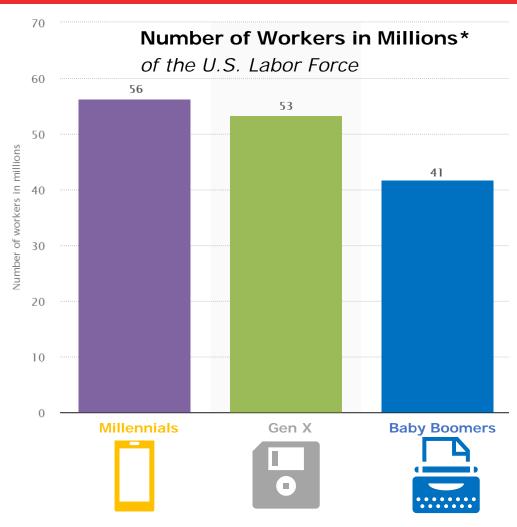


MANAGEMENT CHALLENGES



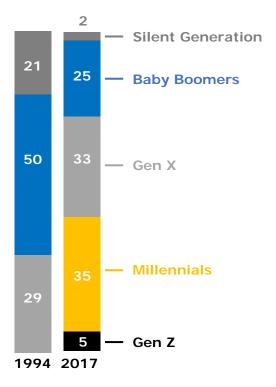


The Labor Force Today



More than a third of the workforce are millennials**

% of the U.S. Labor Force



This has immediate impacts on how managers lead their people.

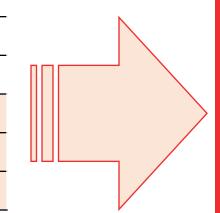
^{*} Source: Bureau of Labor, Courtesy of Deloitte Consulting

The Labor Force Tomorrow

Labor Force Participation (actual and projected)*

by age

Cohort	1994	2004	2014	2024
16 to 24	66.4%	61.1%	55.0%	49.7%
25 to 54	83.4%	82.8%	80.9%	81.2%
55 to 64	56.8%	62.3%	64.1%	66.3%
65 to 74	17.2%	21.9%	26.2%	29.9%
75 and Older	5.4%	6.1%	8.0%	10.6%



America's future workforce will be ~ OLDER ~ than it is today.

This should be on the mind of Executives and future leadership.

^{*} Source: Bureau of Labor Statistics, courtesy of Deloitte Consulting

Management Challenges

- Incubation requirements
- Supply chain challenges
- Inventory control and budget allocation
- Labor retention and motivation



Questions?

We can always be reached at

webinars@Jamesway.com

-Recommended Spare Parts
-Spare parts Template
-PM Schedules



