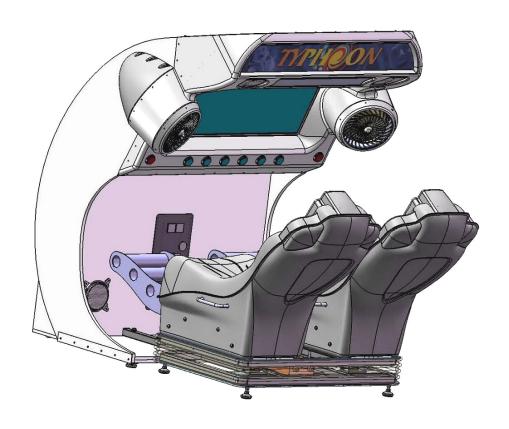
### **TYPHOON**



## **USER MANUAL**

#### Preliminary – January 2009



Triotech Amusement Inc.

190 Des Industries Lavaltrie, Quebec (Canada)

J5T 3R2

Tel.: **450.586.5009** 

Toll free: **1-888-IN-LINE-4** 

Fax: **450.586.0299** 

e-mail: service@trio-tech.com

Dear valued customer, Congratulations and thank you for purchasing TRIOTECH AMUSEMENT's Typhoon. You will not be disappointed with your purchase. Your 2-seat theater is coin-operated and does not require attendant. Featuring 4.1 Surround Sound and a 42" LCD screen this dual-actuator motion platform is the most realistic simulation available in coin-op. Sincerely, **TRIOTECH** 

# ATTENTION ALL GUESTS READ IMPORTANT SAFETY INFORMATION AND FOLLOW INSTRUCTIONS OF ATTENDANTS

#### RIDE DESCRIPTION: MODERATE

A movie ride with intense back and forth and side to side movement of the seats.

## TYPHOON

Do not ride if you have any of the following coditions:



Recent Surgery or Illness



Heart Condition



Rome Allima



Dogwood



High Blood Pressure



Under the influence of Drugs or Alcohol

For your safety, you should be in good health to ride.
Only you know your physical conditions or limitations.
If you suspect your health could be at risk for any reason, or you could aggravate a pre-existing condition of any kind, DO NOT RIDE!

#### RIDE RULES

- Secure all loose articles (glasses, cameras, cell phones, hats, wallets, keys, etc.) or leave them with a non-rider
- Cameras and video equipment are not permitted on the ride
- Smoking is not permitted on the ride
- Chewing gum, candy, food and drinks are not permitted on the ride

## Typhoon reception

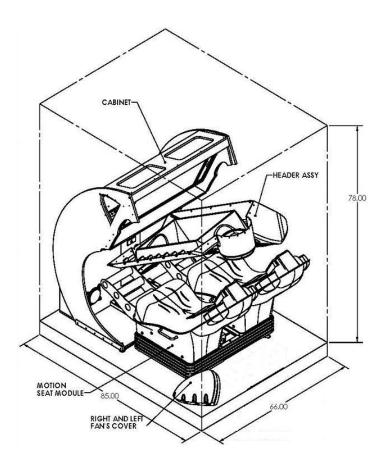


#### **CAUTION**

Typhoon requires a dedicated 120V. 15 amp circuit or 220V. 7.5amp or the machine may experience sporadic technical difficulties. Your Typhoon should not share a breaker with other deluxe or motion based cabinets.

#### **Determine Optimum Location**

The game location must be free of: exposure to direct sunlight, high humidity, dust, salt mist, high heat, or extreme cold. If installed in an unusually hot location, allow additional clearance between ventilation slots in the game and any structure or object that would tend to restrict air circulation.



#### TYPHOON Ships in one (1) crate

Package approximate dimensions: 90" x 56" x 80"

## LIST OF SUPPLIED ASSEMBLY PARTS

## **Package Content**

Item	Description	Photo/ Image	Qty.
1	Main cabinet	i o B.B.	1
2	Motion seat module		1
3	Header assy		1
4	Fan's cover (right &left)	LEFT	2
5	Hardware box (inside of the coin door; the access is from the front of the machine; a bag with the necessaries keys is attached to the coin door's door)		1

## HARDWARE BOX MANIFEST

3

Reception

Bag or					
bin No.	IMAGE	DESCRIPTION	SIZE	QTY.	SPARE
1	SD-100-0215	FLAT WASHER NEORENE	#10	26	
2	SD-100-0187	PAN HEAD QUADREX DRIVE	#10-24 x 3/4"	26	
3	SD-100-0216	FLAT WASHER NEOPRENE	#14	12	
	SD-100-0190	PAN HEAD QUADREX			
4		DRIVE	1/4-20 x 3/4"	12	
5	SD-100-0328	LOCK WASHER	1/2"	6	
6	SD-100-0047 SD-100-0342	FLAT WASHER	1/2 "	6	
	SD-100-0342				
7		HEX.MACHINE SCREW	1/2 "-13 x 4"	6	

Installation

4

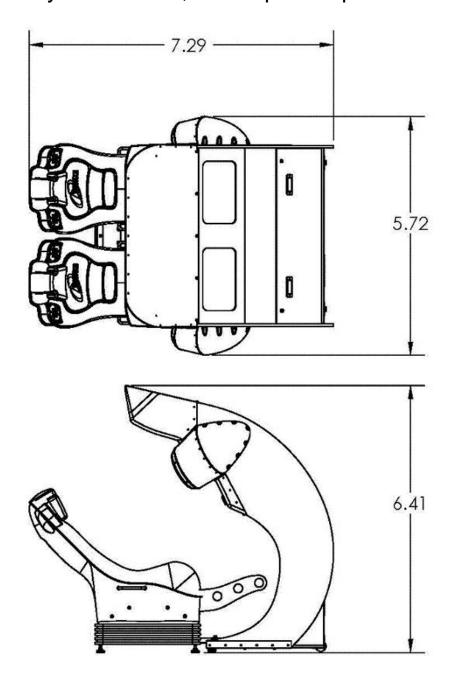
# NECESSARY TOOLS TO COMPLETE ASSEMBLY



No.	Tools	Description /Image	Application
1	Forklift	Capacity over 1000 lb Appropriated long forks attached (~65")	Put the carrying package in the place
2	Socket 3/4"		Install the seat module (pg.14)
3	Wrench 3/4"		Adjust the height of the cabinet and seats (pg.9 and 14)
4	Screwdriver no.2 (square) (Screw #10) Or Phillips #2		Install the fan's covers on to the header(pg.10 )and the header to the cabinet (pg. 11)
5	Screwdriver no.3 (square) (Screw 1/4) Or Phillips #3		Install the header on the cabinet (pg.11)

#### SPACE REQUIREMENTS

For installation, the required space is ~ 15' X 10' When fully assembled, the required space will be ~ 7.5' X 8'



Installation

6

## Uncrating

1 - Start by removing the header assembly from the seat.



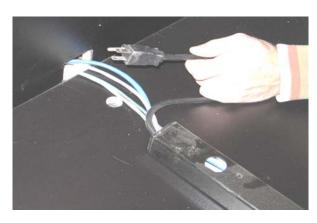
2- Remove the header support



3- Remove the back legs holder



4-Pull the seat out of the cabinet about 6" or 15cm. Then pull the 3 cables out of the hole one by one as shown in the picture below.

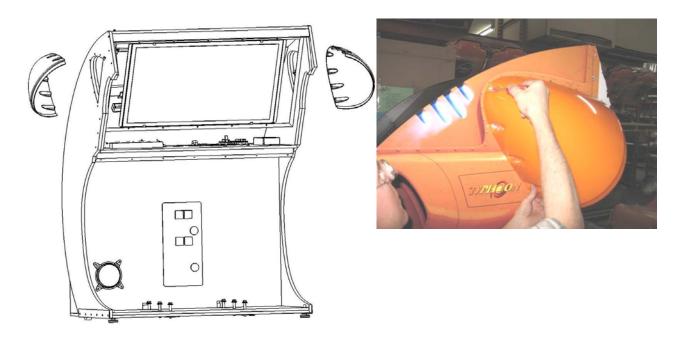


5- Remove seat assembly from the crate.



- 6- Remove cabinet from the crate and move in the desired final location.
- Locate the hardware box inside of the coin door
- You will find a description of the hardware on the bag.

## **STEP 2. Header assembly**



Install the two fan covers (right and left) to the cabinet

Tools	Fasteners Reference
Screwdriver no.2	Flat neoprene washer #10"(14X),
	Screw #10-32 x 3/4"(14X)

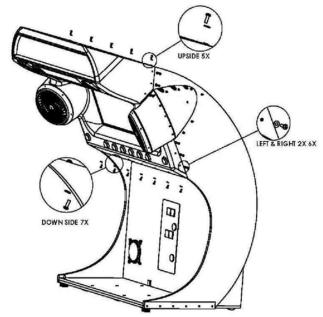
## Header

## **STEP 3. Header installation**

Place the header on the machine as shown

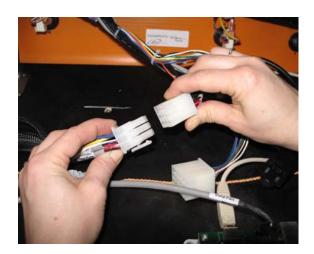


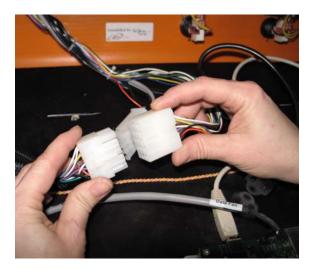


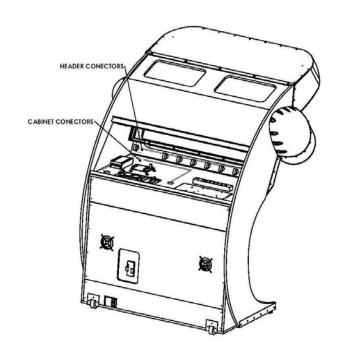


Tools	Fasteners Reference
Screwdriver no.2	Flat neoprene washer #10"(12X), Screw #10
(Down side, upside )	-32 x 3/4"(12X)
Screwdriver no.2	BAG/BIN NO: Flat neoprene washer
(right and left side fan's cover)	#14"(12X), BAG/BIN NO : Screw 1/4"-20x
	3/4"(12X)

- Open the back service door.
  Connect the header cables. There are **three connectors**; one MOLEX, 9 pin and one 15 pins + one NEMA /standard 110V.



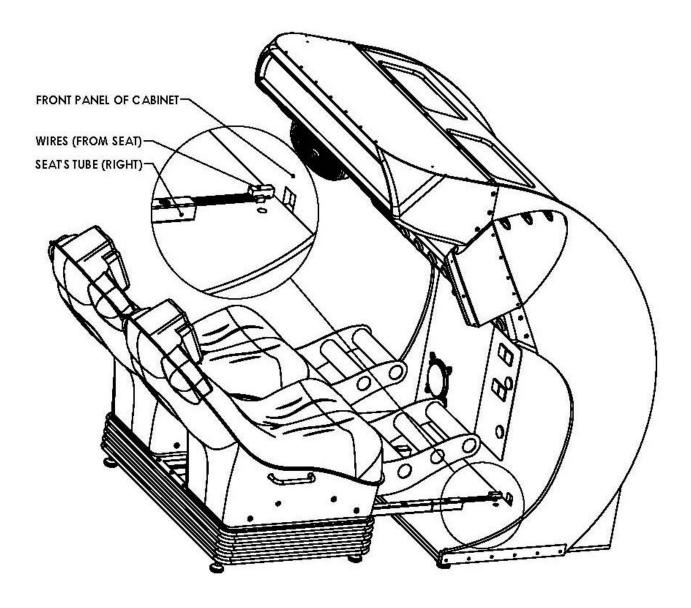




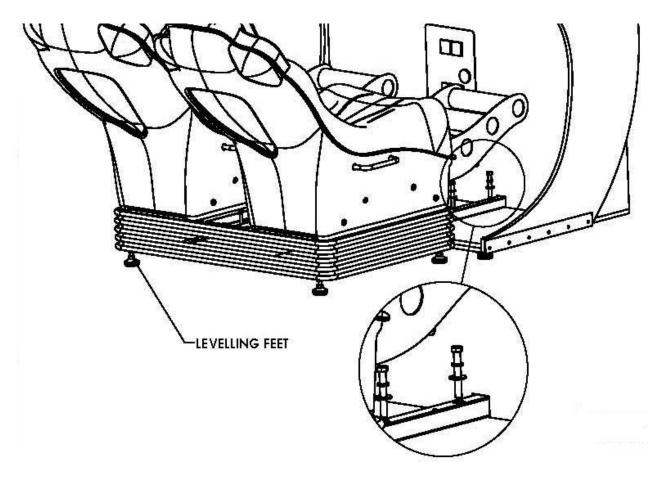


Once connected, close & lock top door.

Align seats for wires to easily run through hole on lower right part of cabinet.



Fasten seats to cabinet using 6 hexagonal head screw 1/2" -13 x 4", flat and lock washer. Level seats using adjustable feet

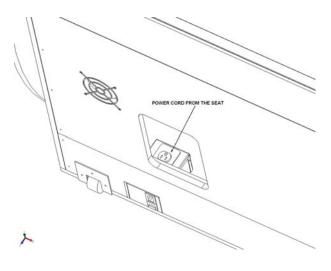


Tools	Fasteners Reference
Ratchet 3/4"	Flat washer 1/2"( 6X), lock washer 1/2 (6X), Hex. Screw 1/2"-13 x 4"( 6X)
Wrench 3/4"	Levelling feet

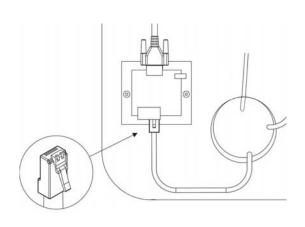
#### Seat

Through lower right (back of cabinet) door, connect wires you ran. (**Three connectors**: NEMA/standard 110V to electric box, RJ45 to Opto board (only one with RJ45 connection) and the Molex 9 pin connector to its female connector

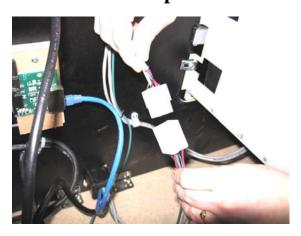
#### Main electric box



#### **Opto-card**

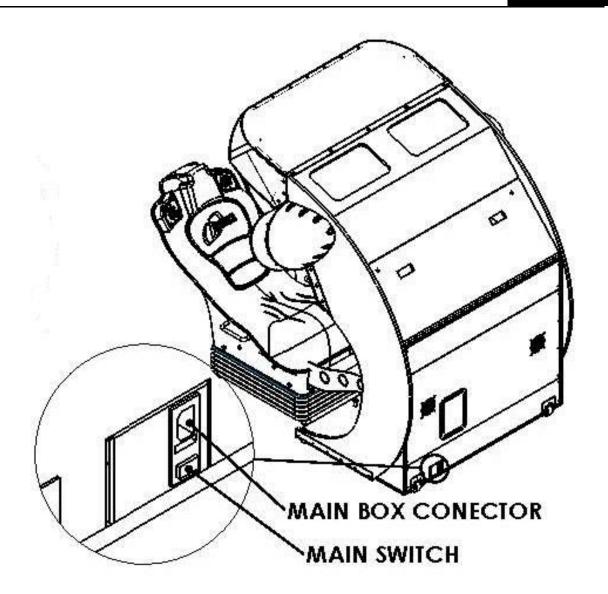


Molex 9-pin



Once plugged in, lock door.

### Installation

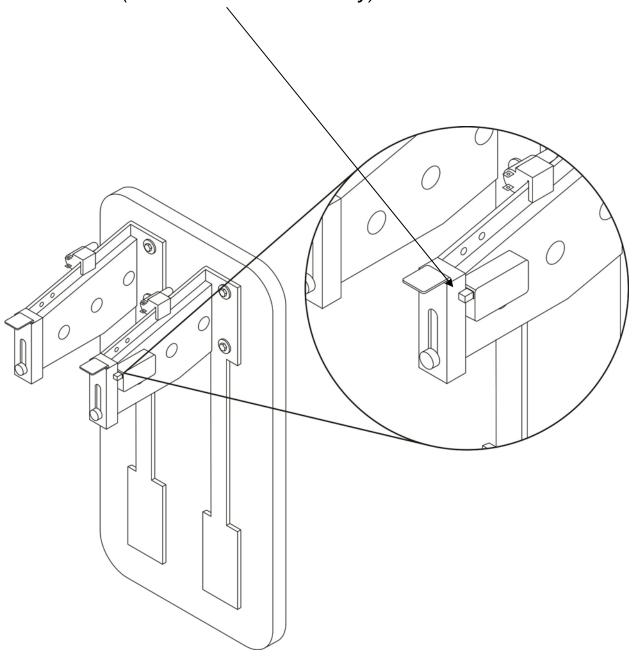


Before you connect, make sure main switch is in off position. Connect power cord to cabinet and wall outlet.

Then turn the main switch ON

## **Operator Setting**

Accessing operator settings interface is done by opening the coin mech door and pushing the micro switch attached to the coin mech (*while in attract mode only*).



## Operator Setting

## 10

Configuration

To access the statistic mode screen, press the micro switch once (or toggle micro switch until you reach this screen).

- 1. Amount of credits inserted into game in lifetime.
- 2. Amount of money inserted into game in lifetime.
- 3. Value of one credit
- -4. Actuator usage time since game installed
- 5. Actuator usage time since game installed
- -6. Revenue from each movie installed



Configuration

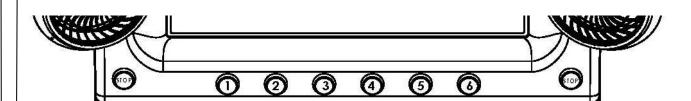
10

#### Operator Setting

Use the large dash selection buttons 1 through 6 to change configurations. To change any of the options, press the appropriate button until the desired setting is reached. To return to a previous setting, keep toggling the button until it reaches the end of the settings; then it will restart the settings from the beginning.

Amount of credits needed to start game. Set to 0 for free play (Press 1)
Choose to display credits or money on screen. (Press 2)
Value of one credit. (Press 3)
Sound volume in attract mode. (Press 4)

Hit the appropriate button on the header to change variables



```
Maintenance mode:

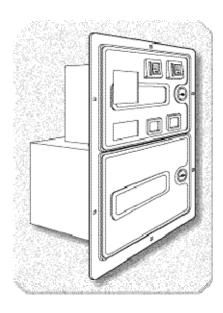
Configuration Elements:

(1) cost per game (credit): 8
(2) cost display: credits
(3) credit value ($): $0.25
(4) volume (demo): 2

Press on the appropriate button
```

#### Dollar bill validator information

Typhoon does not ship equipped with a DBV, however it is pre-wired to accept one and we suggest the installation of one of the models below. This door accepts Mars upstacker bill validator with compact fitted Bezel (up to 10" deep)



Accepts both bills and coins

Fitted with full metal cash box enclosure

Fitted with two \$.25 U.S. Coin

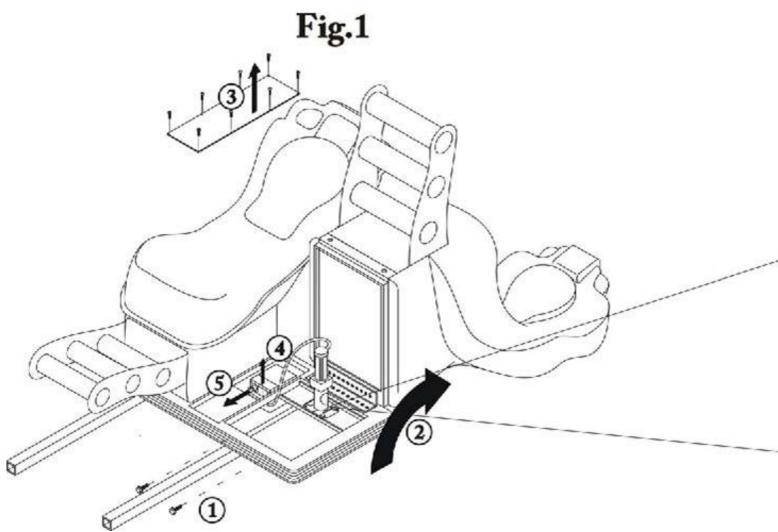
#### **FACTORY SUGGESTED PRICING PER RIDE IS \$3.00**

Upstacker Bill validator fits these Models amongst others

T T	<b>~</b> 1	D /3 1
Hann	Control	$\mathbf{P}/\mathbf{N}$
Habb	Conuor	1/11

MARS	42-7312-00
MARS	42-7311-00
MARS	42-7310-00

## Actuator replacement



#### Actuator replacement procedure

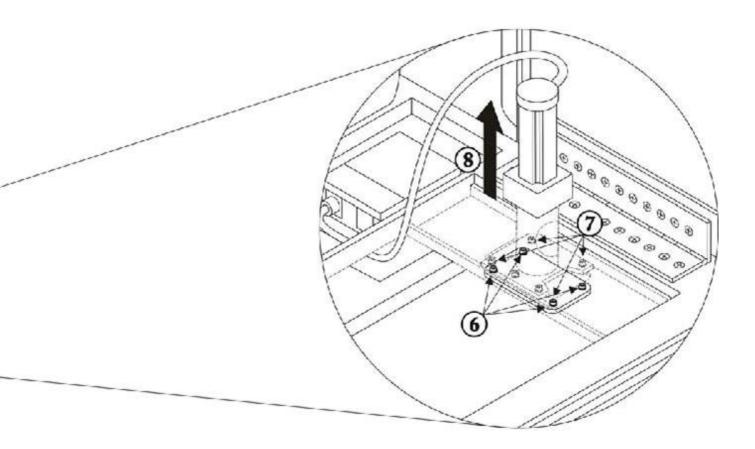
- 1. Unscrew the 2 bolts holding the defective seat (under foot rest)
- 2. Flip seat back (protect head rest by covering floor with something soft)
- 3. Remove cover plate between the 2 seats
- 4. Open cover of control box, and detach the actuators's 2 connectors from the

control box board (see page 38)

5. Remove front cover plate from control box

Maintenance

## Fig.2

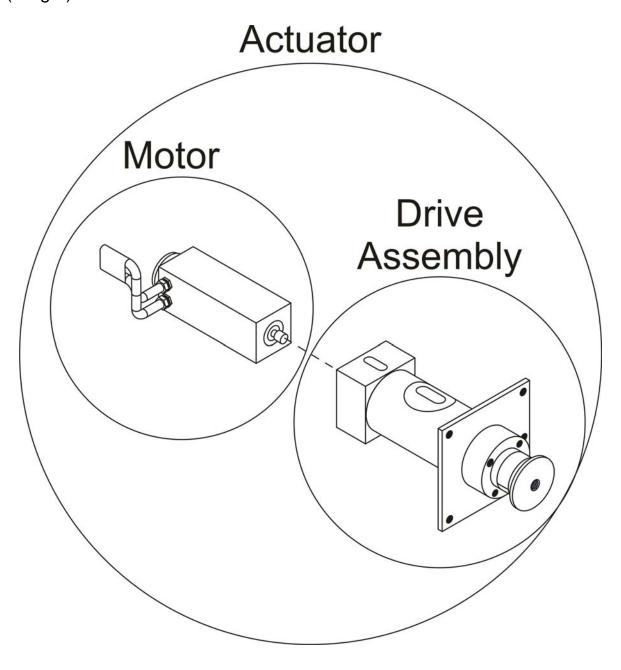


#### Actuator replacement procedure

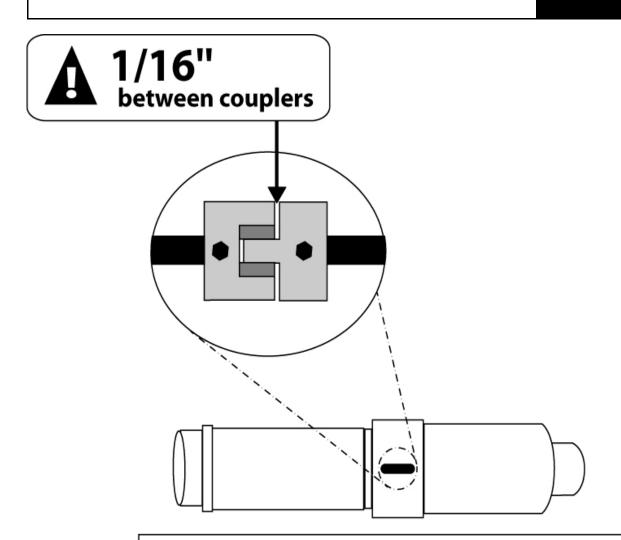
- 6. Unscrew the 4 hex socket screws from inside the actuator positioning hole
- 7. Unscrew the 5 hex socket screws attaching the actuator to the seat frame
- 8. Remove actuator
- 9. Reverse procedure to re-reinstall new actuator

## Replacing a drive assembly

Remove drive assembly from motor. Shipping a drive assembly is the cheapest way to get the actuator repaired as you save on shipping (weight).



## Replacing a drive assembly

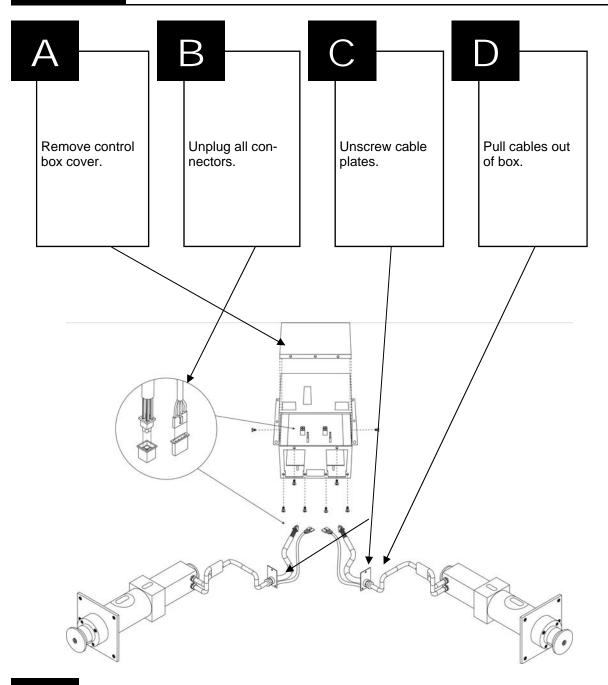




If positioned too close the heat and pressure will damage the bearings. You can ajust spacing by repositionning the coupler on the motor with the set screew. Maintenance

14

## Replacing control box



Ε

Remove and replace control box.

Troubleshooting

15

Motion Theater Diagnostic	Mode : [So	eat 5]:co	m3		
General status (com3) : Synchronizing					
actuator 2 (left) status : Unknowned					
actuator 3 (right) status : Unknowned					
actuator 2 (left) error : OK		1			
actuator 3 (right) error : OK					
Motion erro	or. Press a	ny select	ion bu	itton to retry.	
				ver. 2.01 Mar 31 2004 14:0	00:29
	No problem rep		is actuato	or	
	Move to box be	low			
• <u>NOT RESPONDING</u>	Goto page 43				
• <u>Software (overweight)C</u>	ommand Ove	erRunFail	<b>State</b>	Goto page 36	
• <u>Software (travel)Comm</u>				Goto page 36	
• <u>Software (fail hall)Com</u>				Goto page 41	
• <u>Software (overpos)Com</u>	mand OverR	unFail Sta	<u>ıte</u>	Goto page 41	
• <u>Software (Timeout)</u>				Goto page 38	
• Command OverRunFar	<u>l State</u>			Goto page 42	
• Software Command OverRunFail State			Goto page 40		

**Troubleshooting** 

16

## Diagnostic screen and error codes Continued

#### Software (Travel)

**Software (overweight)** 

Software (overweight) Command OverRun Fail State

**Software (OverPos)** 

Software (Travel) Command OverRun Fail State

#### **Cause**

- Mechanical fault

- -Unplug the Typhoon.
- -Lift the back of each seat to see if they move freely.

#### **MOVES FREELY**

-Re-seat actuator on side the error appeared (diagnostic screen).

#### **DOES NOT MOVE FREELY**

-Replace DRIVE ASSEMBLY

Verify coupler & tighten (see section 20).

If no change, replace whole actuator.

**Troubleshooting** 

17

#### Software (Fail Hall)

#### Software (Fail encoder)

#### **Cause**

- Electrical fault

-Replace whole ACTUATOR on side error appears. Section 3-3.

Troubleshooting

**18** 

## Diagnostic screen and error codes Continued

#### **Software (Timeout)**

#### **Cause**

- Actuators have not received data from computer for more than one minute
  - -Unplug machine
  - -Wait 1 minutes
  - -Re-plug machine

Troubleshooting

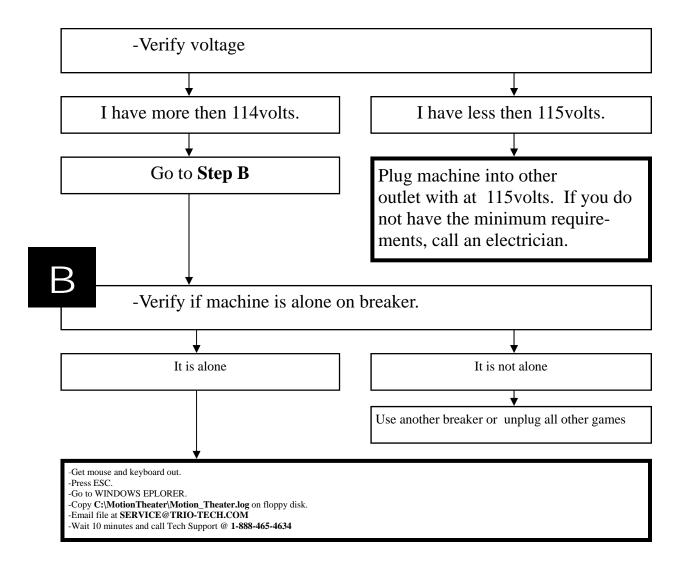
19

#### **Software**

#### **Software Command OverRun Fail State**

#### **Cause**

- Machine is sharing breaker with other devices.
- Machine is not receiving at least 115volts.



**Troubleshooting** 

**20** 

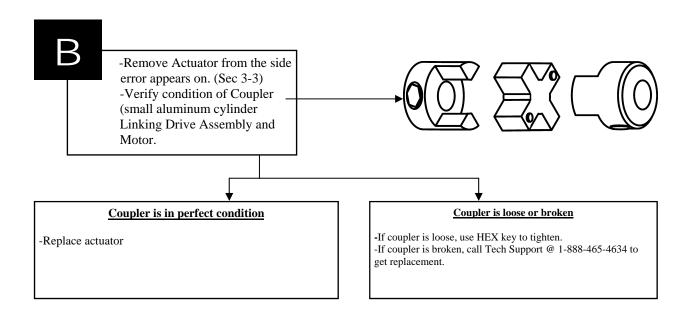
# Diagnostic screen and error codes Continued

#### Software (overPos) Command OverRun Fail State

#### Software (fail hall) Command OverRun Fail State

#### **Cause**

- Mechanical, electrical and/or software fault



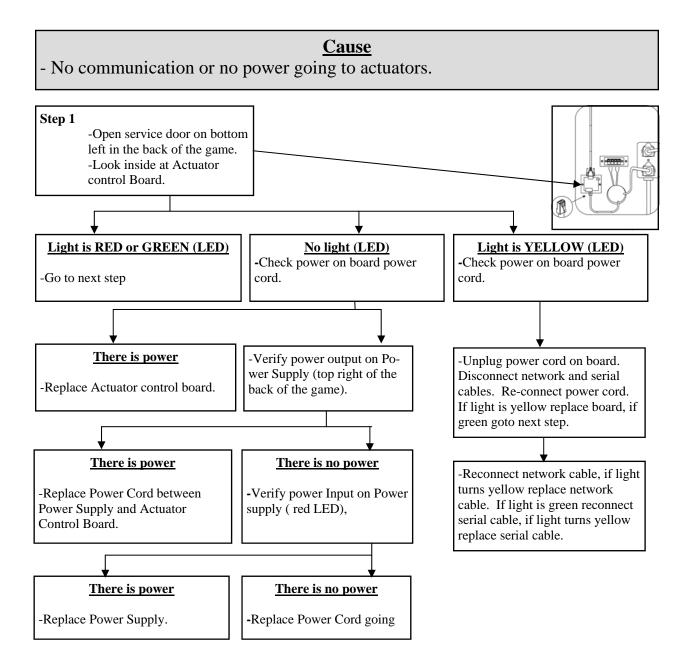
Troubleshooting

21

#### **Command OverRun Fail State**

- When error appears as is, without the word **software**, no problem is detected on **this** actuator.

#### **Not Responding**

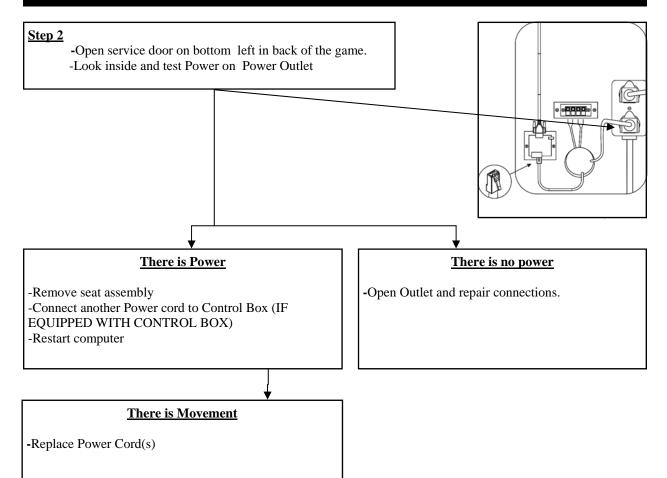


#### **Continued next page**

**Troubleshooting** 

22

#### **Not Responding**



23

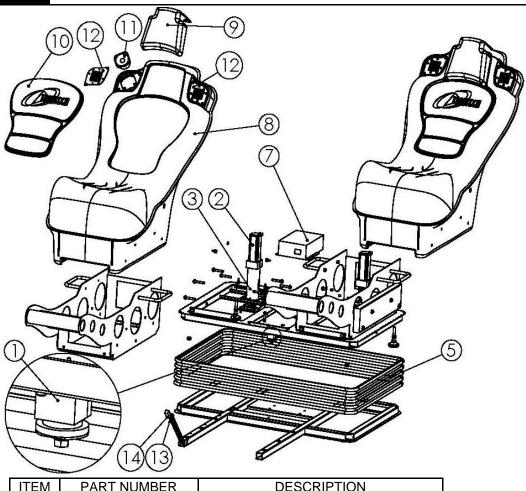
## Motion stops and restarts during ride

#### Cause

- One or more Actuator is faulty, but does not generate an error in the Diagnostic Screen.
- -Get mouse and keyboard out.
- -Press ESC.
- -Go to WINDOWS EXPLORER.
- -Copy **D:\Typhoon.log** on floppy disk.
- -Email file at **SERVICE@TRIO-TECH.COM**
- -Wait 10 minutes and call Tech Support @ 1-888-465-4634

## Parts Parts

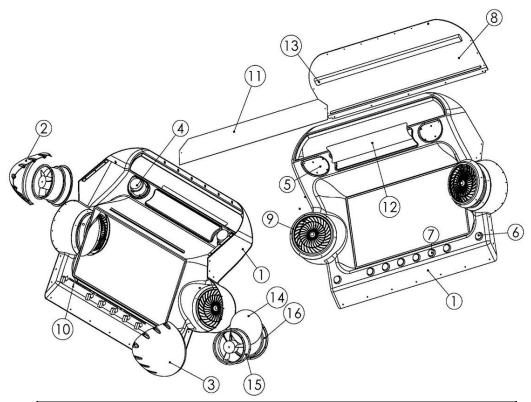
### Seat assembly



ITEM	PART NUMBER	DESCRIPTION		
1	SD-450-0003	PIVOT ASSEMBLY		
2	SD-450-0008	ACTUATOR MOTOR AKM 24D		
3	SD-450-0022	DRIVE ASSY AC10		
4	SD-250-0068	ACTUATOR PLATE		
5	SD-400-0010	SKIRT, RUBBER BASE		
6	SD-900-0015	CAP PIVOT PISTON		
7	SD-450-0013	CONTROL BOX "B"		
8	SD-350-0015	FIBER GLASS SEAT		
9	SD-500-0040	HEAD CUSHION		
10	SD-500-0039	BACK REST CUSHION		
11	SD-700-0070	3" SPEAKER ASSEMBLY		
12	SD-250-0336	GRILL		
13	SD-150-0019	NETWORK CABLE		
14	IMT- 0151	SOUND WIRING HARNESS		

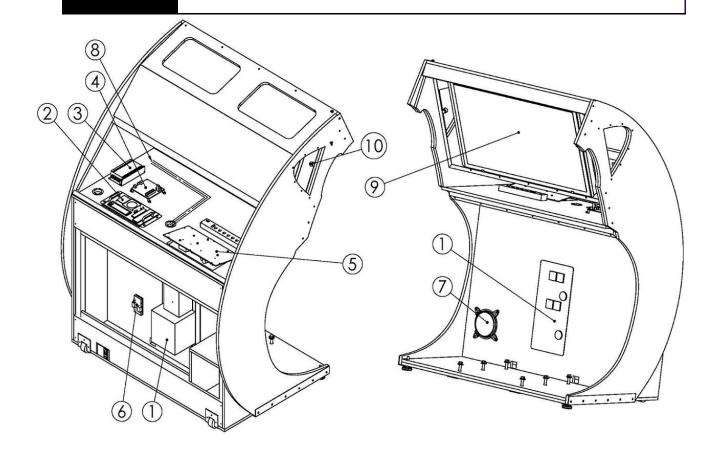
### 26

### Header parts

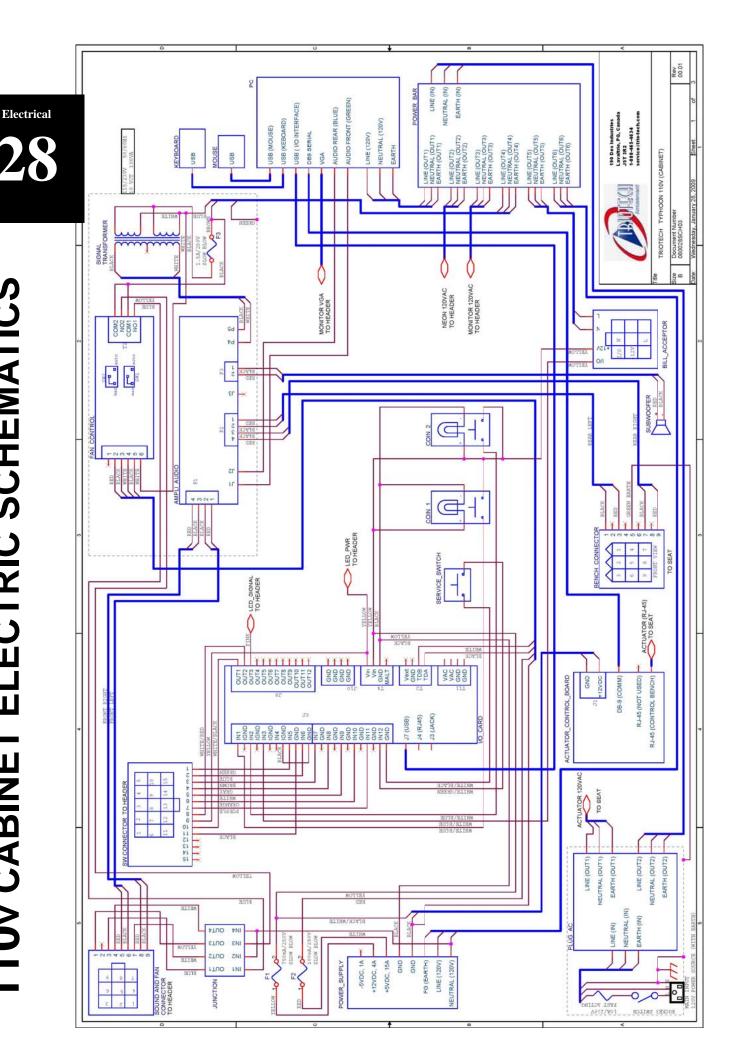


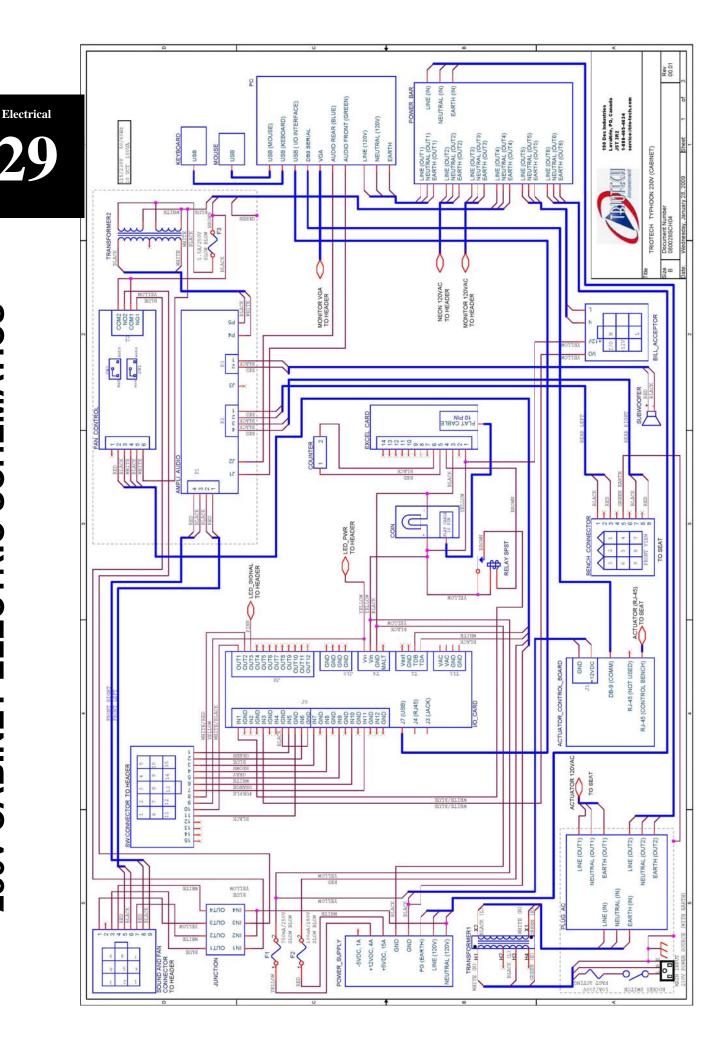
ITEM	PART NUMBER	DESCRIPTION		
1	SD-400-0071	HEADER		
2	SD-400-0075	FAN CASING, RIGHT		
3	SD-400-0074	FAN CASING, LEFT		
4	SD-700-0065	SPEAKER 5.25_2 WAY		
5	SD-250-0336	CABINET SPEAKER GRILL		
6	SD-150-0091	RED BUTTON		
7	SD-150-0090	BLUE BUTTON		
8	SD-400-0072	HEADER TOP COVER		
9	SD-400-0077	FAN GRILL		
10	IMT-0269	HEADER HARNESS		
11	SD-650-0118	HEADER BACKLITE SIGN		
12	SD-650-0117	FRON HEADER DECAL		
13	SD-550-0018	NEON FIXTURE		
14	IMT-0226	FAN PROTECTION		
15	SD-150-0420	FAN 10" X3.5" AC115V		
16	SD-400-0073	FUNNEL		

### Cabinet

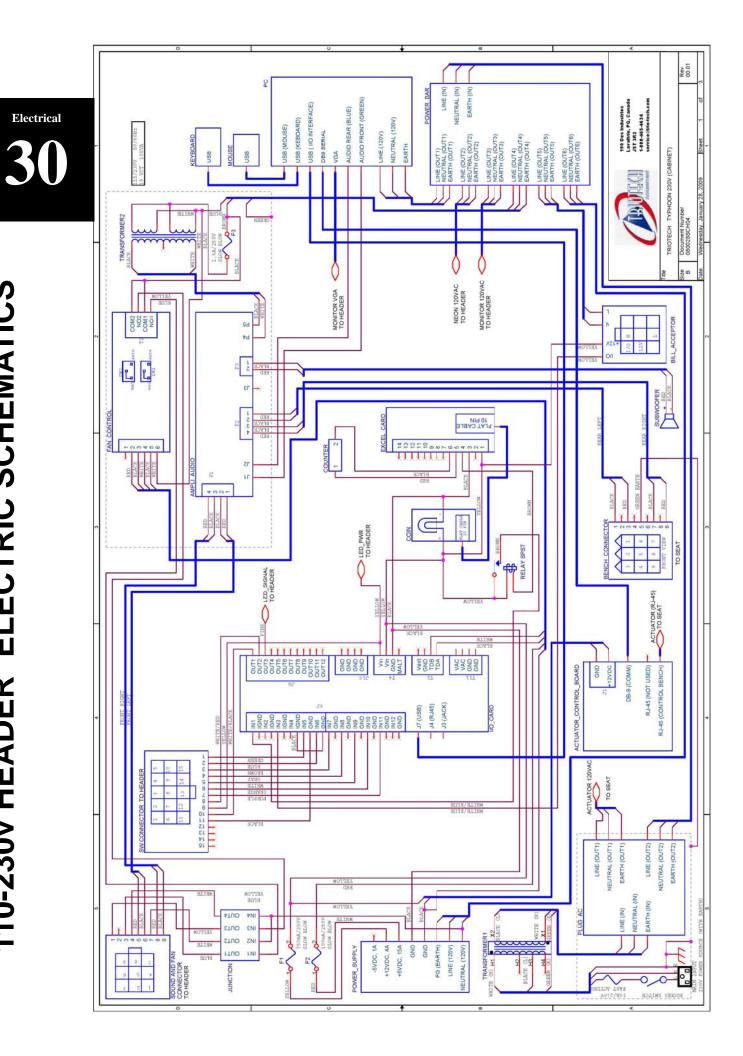


ITEM	PART NUM- BER	DESCRIPTION		
1	SD-150-0035	COIN DOOR		
2	IMT-0270	COMPUTER ASSEMBLY		
3	SD-150-0098	5-12v POWER SUPPLY		
4	SD-150-0297	I/O INTERFACE		
5	SD-150-0370	10A TRANSFORMER		
5	IMT-0303	BLOWER CONTROLLER		
5	SD-700-0117	4.1 SOUND AMPLIFIER		
6	IMT-0040	ACTUATOR CONTROL BOARD		
7	SD-700-0075	SUB-WOOFER 6-1/2		
8	IMT-0271	WIRING HARNESS (CABINET)		
9	SD-700-0129	MONITOR 42"LCD		
10	SD-150-0436	BLUE LED		

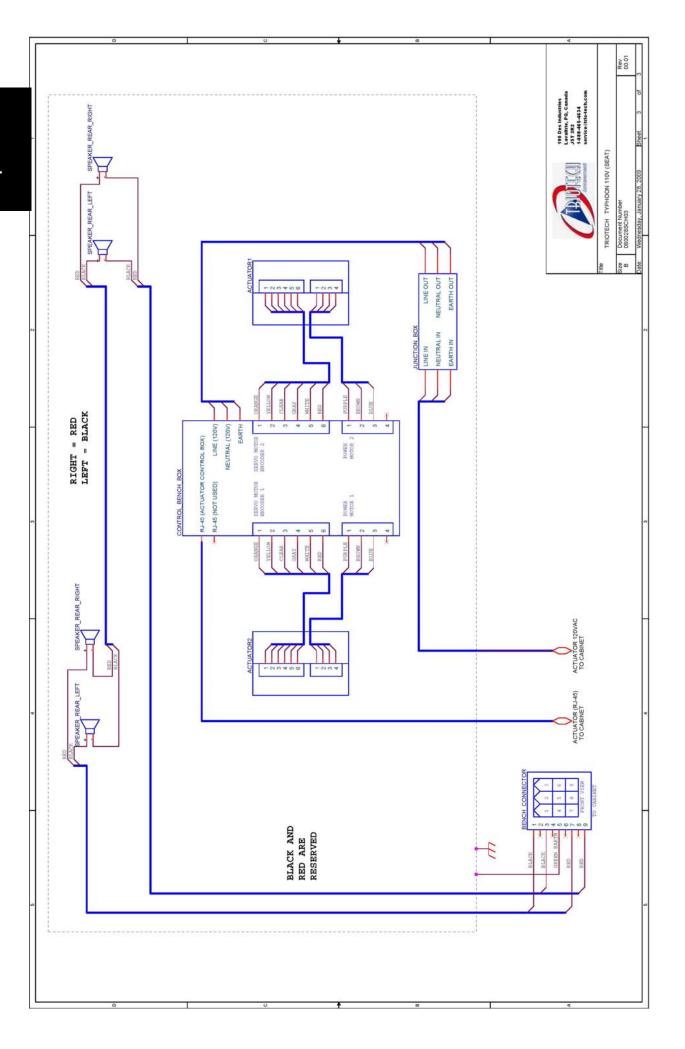




## 110-230v HEADER ELECTRIC SCHEMATICS



# 110-230v SEAT ELECTRIC SCHEMATICS



### **Technical Support**

190 Des Industries Lavaltrie, Quebec Canada J5T 3R2

1-888-IN-LINE-4

Fax: 450.586.0299 www.trio-tech.com info@trio-tech.com

### LIMITED WARRANTY

- Triotech warrants to the buyer, for a period of (1) one year starting on the day of product delivery, all parts against any manufacturer's defect. During this warranty period, Triotech agrees to replace defective parts. Installation costs onsite are at the charge of the buyer.
- Ground Freight costs for replacement parts are at the charge of Triotech, For the return of the defective part. The buyer agrees to send back defective parts to Triotech within (30) thirty days and freight costs will be at his charge.
- The warranty is limited to manufacturer's defects.
- As for parts or components not manufactured by Triotech, the only valid warranty is that of the manufacturer's.
- Triotech assumes no liabilities for any loss of revenue, damage or inconvenience of any type resulting from a defect of any part of the system and will not assume the temporary replacement of the system during the period of repair.
- Triotech is not liable of any late delivery of the system.
- Any apparent defect or non-delivery of a part of the system shall be notified in writing within 5 days of delivery.
- Defective parts covered by the warranty will be replaced at Triotech's discretion either by new or rebuilt parts with the same or with a replacement model of the same parts. Warranty on replacement parts ends on the same date as the original part warranty.
- No warranty is valid if the defect is the result of a misusage, or contrary to the norms of instruction or user manuals, or the result of improper maintenance.
- Using spare parts that do not fit specifications will void the warranty. Removing serial numbers and/or bar codes from product or component will void the warranty.
- Triotech is only liable to the replacement, in a reasonable delay, of the defective parts.
- No warranty is granted on the productivity of the system sold or on the result of its use.