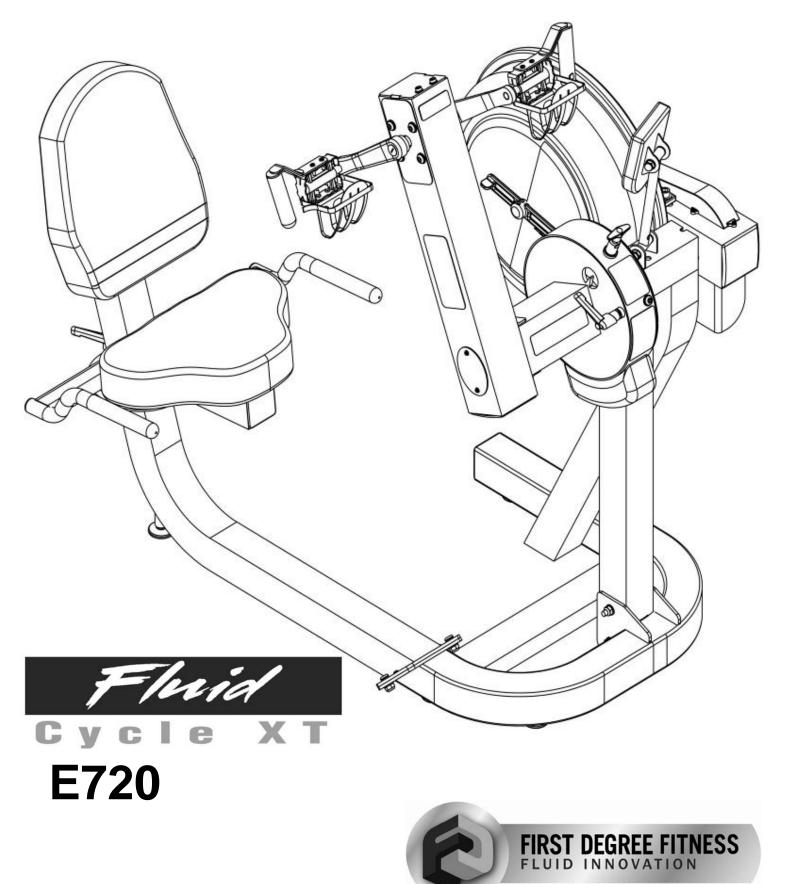
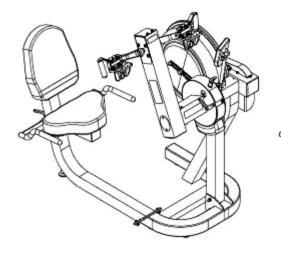
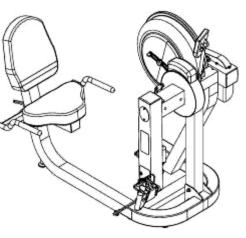
# **Owners Manual**



www.firstdegreefitness.com

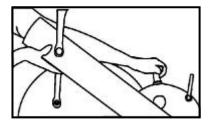
## **Training with E720**





As with any piece of fitness equipment, consult a physician before beginning your E720 exercise program.





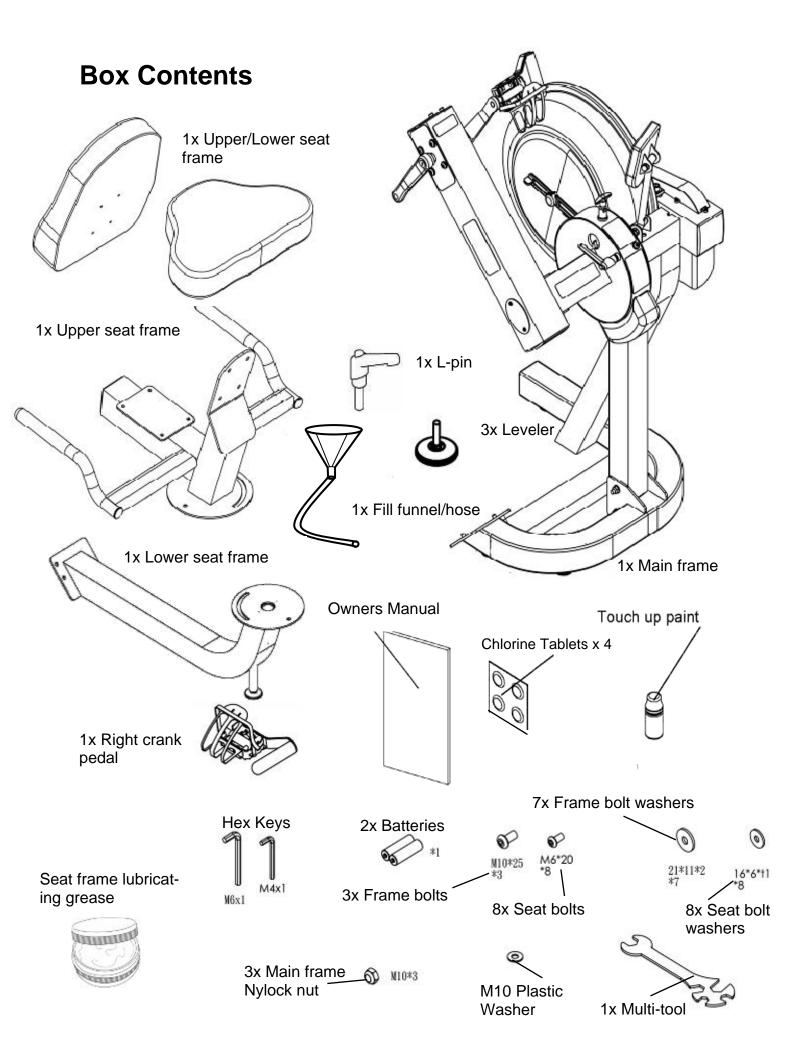
Use two hands and follow all safety instructions whenever raising or lowering the E720 control arm.

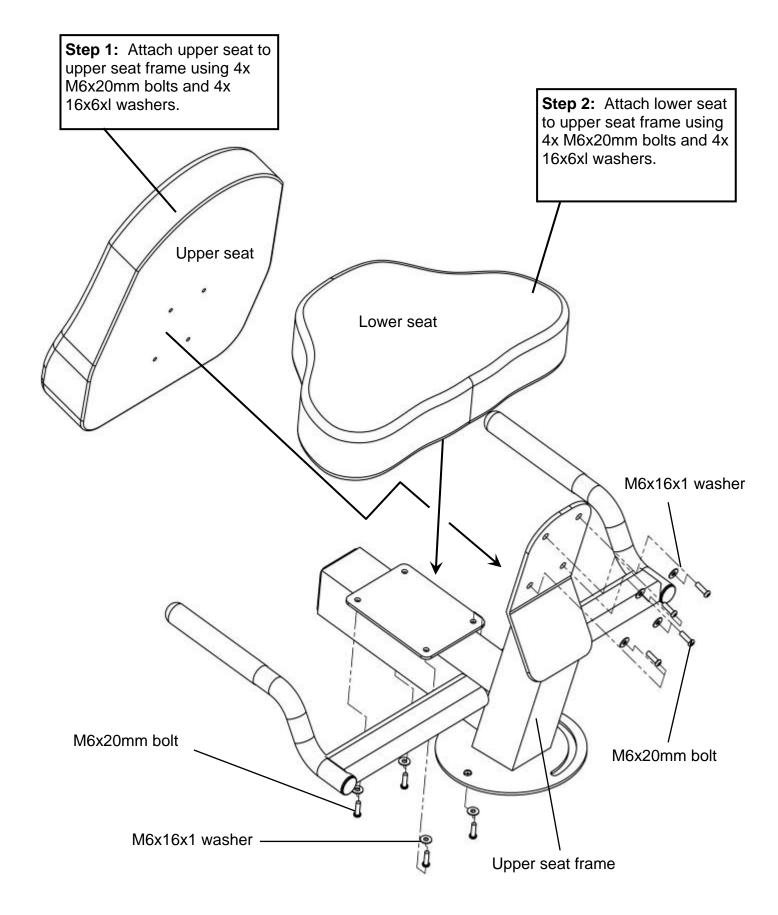


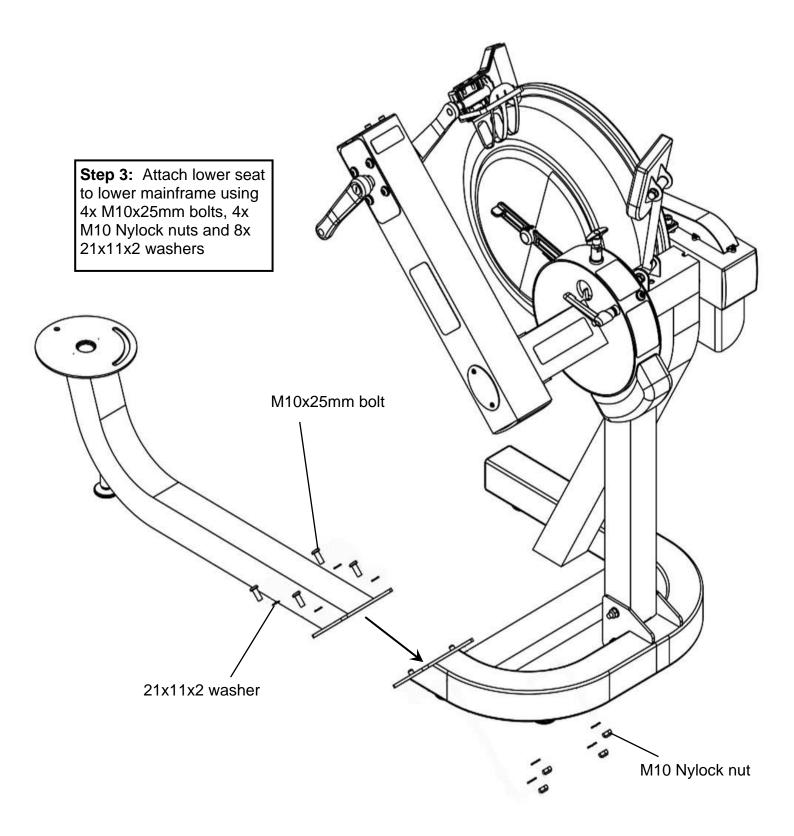
Do not remove feet or hands while crank is in motion. The crank will continue to rotate and could cause injury.

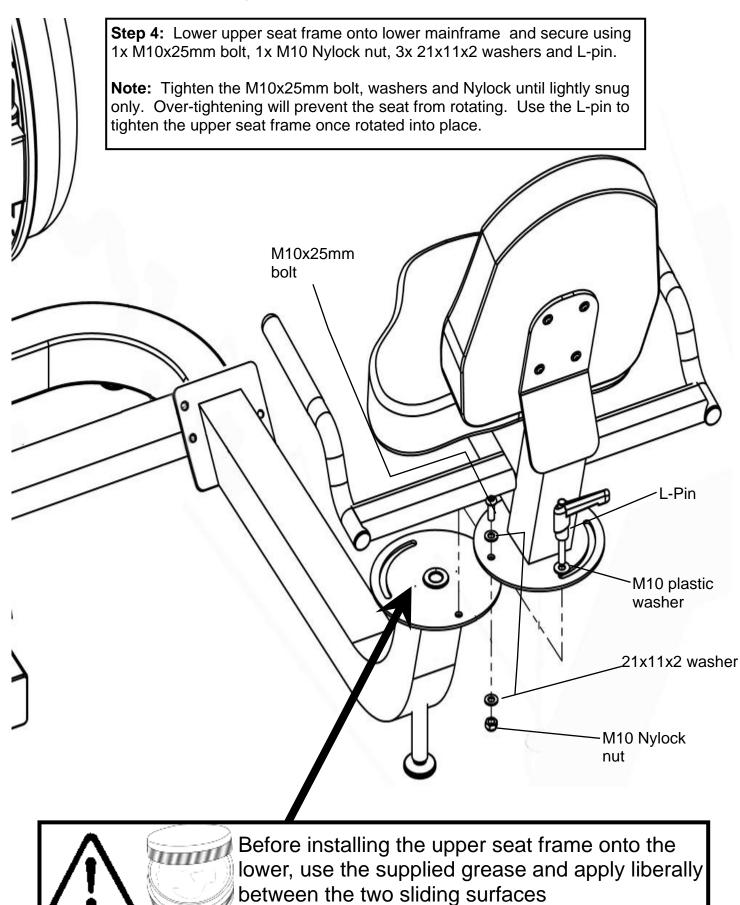
### Contents

- 1. Contents of E720 Box.
- 2. E720 assembly instructions.
- 3. Tank filling and water treatment.
- 4. Long term water treatment and basic operation.
- 5. E720 Control arm.
- 6. Maintenance.
- 7. Troubleshooting guide
- 8. The E720 Ergometer with USB Function
- 9. Tank belt drive adjustment.
- 10. Parts list and Warranty.





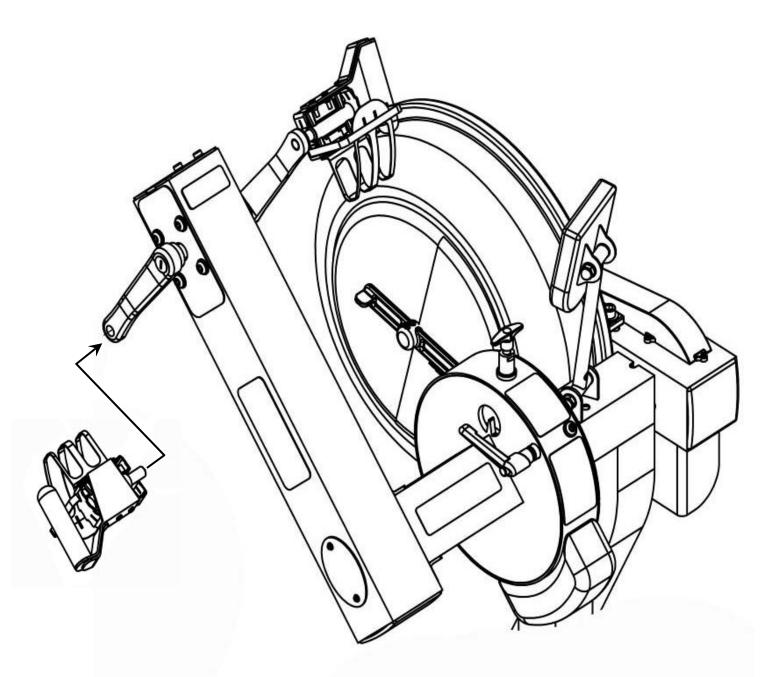




TTT

Note: Allow 15 minutes for the thread-locker to activate before first time use.

Check pedal tightness on a regular basis and tighten as needed with a 15mm wrench.



**Step 5:** Secure right pedal onto Crank arm. The pedal threads have a blue coating which will feel very tight when threaded onto the crank arm. This is a type of thread locker, and once in contact with the crank arm threads will activate in approximately 15minutes.

**Caution!** Extreme over-tightening could damage the aluminum threads on the crank arm.

## **Tank Filling and Water Treatment**

**Note:** A large bucket is required for filling (Not included). In areas where tap water quality is known to be poor, FDF recommends the use of distilled water.

Open the tank plug and insert hose into tank (rotating the impeller slightly may be necessary to allow the hose to pass), move the tank adjuster handle to level 20 and begin filling. Do not fill the tank higher than the level indicator on the front of the clear shell. A properly filled tank holds approximately 8 liters of water.



Do not under any circumstances put fingers into the tank. Use the end of the hose to move the impeller should the need arise.

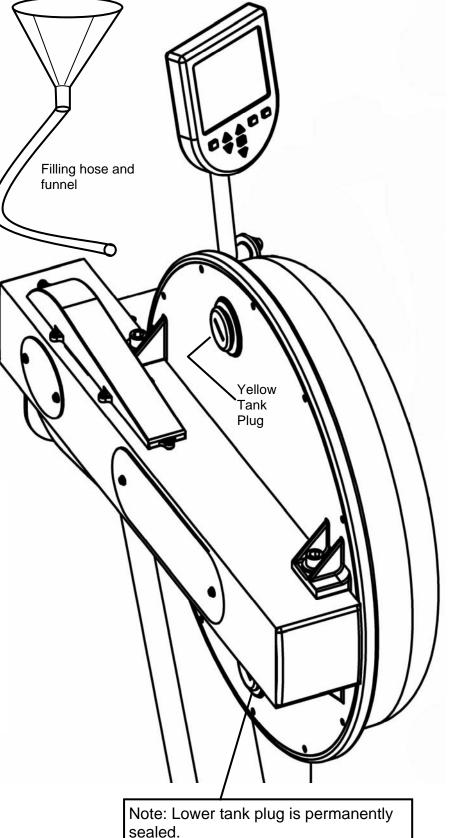
### Water Treatment Procedures:

- 1. Add Chlorine tablet.
- 2. Enough Chlorine Tablets are supplied for many years of Water treatment. Add a chlorine Tablet whenever the Water appears dirty or cloudy.

#### WARNING: Only use First Degree Fitness Supplied Water treatment tablets.



Use a drop cloth under the tank when filling the tank to avoid damage floor or carpet



## Long Term Water Treatment and Basic Operation



**Important:** Do not fill past the calibration mark as indicated on the tank level sticker or water spillage may occur. See tank filling and water treatment page for details.

#### Long term water treatment:

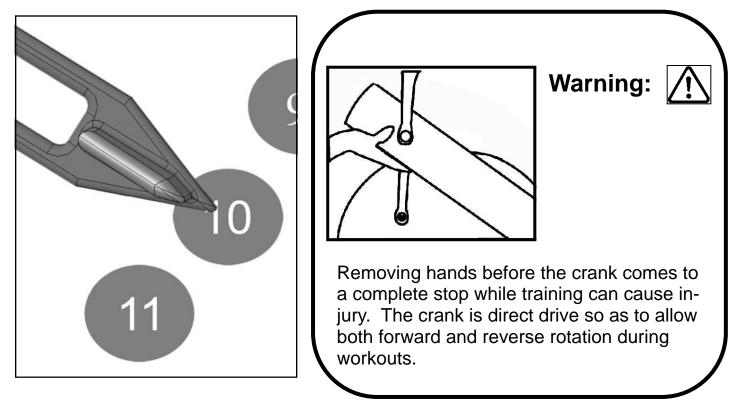
**Do not use any water treatment other than the tablets supplied with this machine.** For replacement tablets, contact your local First Degree Fitness distributor or visit www.firstdegreefitness.com for distributor locations.

Water treatment schedules for the E720 will vary according to the fluid tanks exposure to sunlight but expect 8-12 months near a bright, sunlit window and 2-4 years for a darker location. At the point of finding the water slightly green, add a Chlorine tablet. Remember to wait 72 hours before adding the blue dye as the Chlorine tablet is extremely concentrated.

**Caution:** It is important that a drop cloth be used under the fluid tank whenever the tank plug is opened for water treatment.

#### **Resistance:**

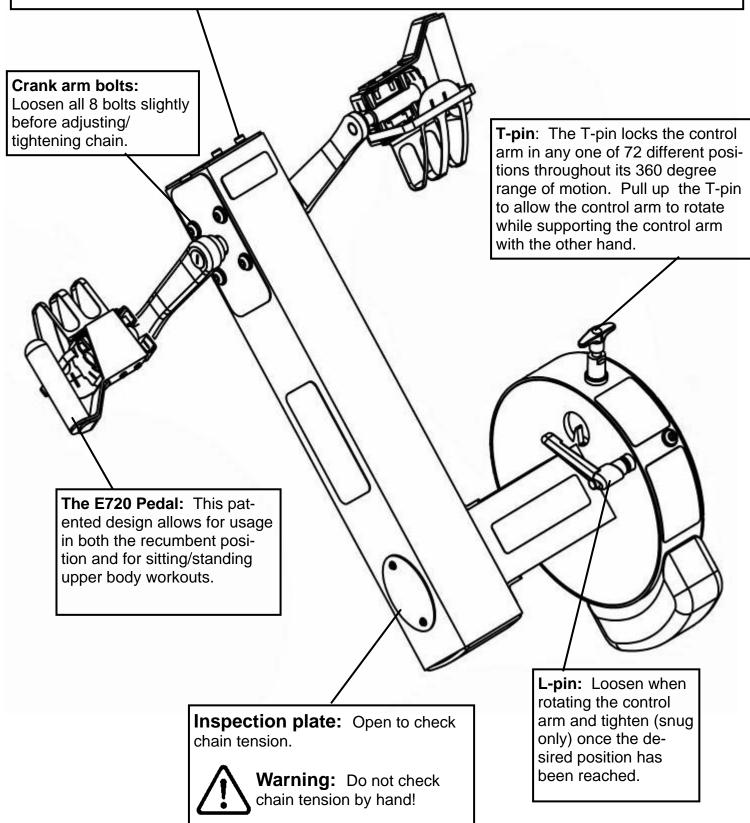
The level of resistance is determined by the level indicator located on the front of the tank. Level one indicates lightest resistance, level twenty represents heaviest resistance. Allow three to four seconds after adjusting resistance handle for the correct resistance level to be achieved.



## The E720 Control Arm

**Chain tensioning bolts:** Allows for tightening the chain or adjustment from side to side. Make sure when tightening only to adjust the same amount for both bolts, otherwise the sprocket will be misaligned.

**Note:** Tightening the right bolt only will pull the right side of the crank assembly toward you, tightening the left will pull the left side toward you. Use this feature to realign the rear with the front sprocket if needed or when changing to a new chain.



## Maintenance chart.

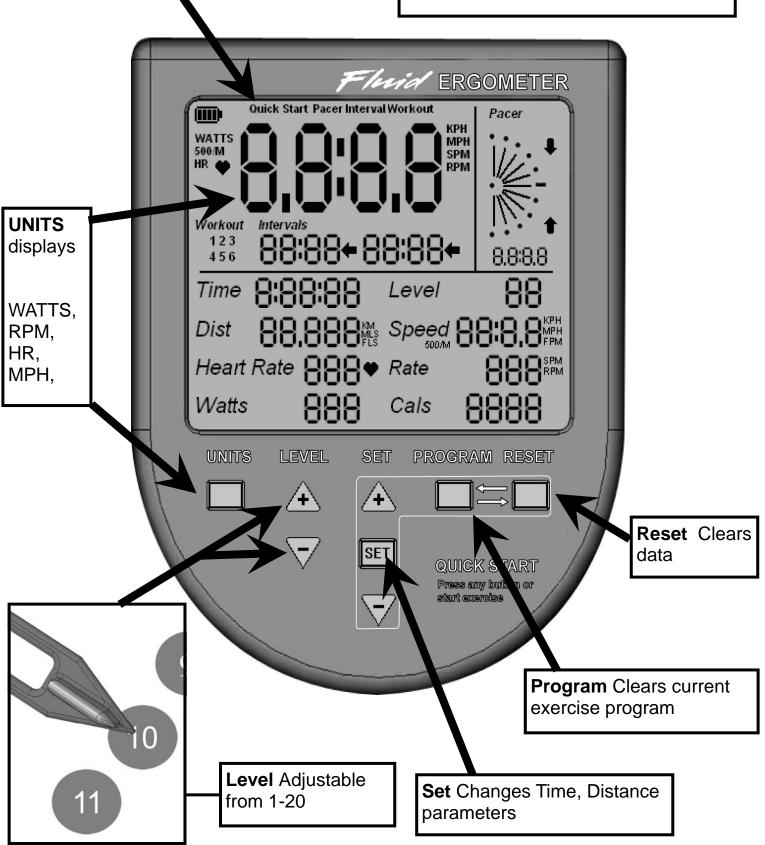
ltem	Timeframe	Instructions	Notes
Seat and Frame.	Weekly.	Wipe down weekly with lint free cloth or more often with heavy club use.	
PK belt tension.	Monthly.	Check monthly for signs of slippage. Adjust/ tighten as required.	
Tank and water treat- ment.	12 months to 2 years.	Follow instructions as specified in the "Water Treatment" section of this manual.	
Chain drive.	Check every 100 hours for correct tension.	Open the inspection plate and check tension using a screwdriver or other tool. Tighten as required using chain tensioning bolts located at the end of the control arm.	
E720 pedals.	Tighten weekly using 15mm box wrench (supplied)	The pedals should be checked on a regular basis. A loose pedal can cause damage to the crank arm aluminum threads, requiring re- placement.	

## Troubleshooting guide:

Fault	Probable	Solution
	Cause	
Water changes color or be- comes cloudy.	Rower is in direct sunlight or has not had water treatment.	Change rower location to reduce direct exposure to sunlight. Add water treat- ment or change tank water as directed in the water treatment section of this manual.
Knocking noise from inside the control arm while train- ing, especially when chang- ing directions.	Chain requires tight- ening or adjustment.	Open inspection plate located on front of control arm and check tension using a screwdriver or other tool. Use the chain tensioning bolts located at the rear of the control arm to tighten or adjust as needed. The chain should have approx 3mm of slack when properly adjusted. See P.10 for details.
Pedals slip during hard training.	PK tank belt requires tightening.	Remove large inspection plate next to the tank, insert a long tool to push the rear end cap out from the inside, expos- ing the tank belt tensioning bolt. Loosen tank bolts slightly. Remove upper rub- ber belt cover to expose the PK belt. Tighten the tank tensioning bolt until the belt is too tight to be twisted from side to side more than 45 degrees by hand. See P.14 for details
Pedal is loose (either left or right) and cannot be retight- ened.	Aluminum crank arm threads are stripped.	Contact service center for replacement. Then check weekly as recommended.
Computer screen illumi- nates, but does not register when rowing.	Loose or failed con- nection/Sensor gap too wide (see erratic computer display).	Check that the computer lead is con- nected properly. If connected properly check sensor gap. Contact your local service center if this fails to address the problem.
The E720 computer does not illuminate after battery installation.	Batteries installed in- correctly or need re- placing.	Reinstall batteries in correct position and try again. If the LCD screen fails to illu- minate, try rotating the batteries slightly in the computer. If this fails, contact your local service center.
The E720 computer display is erratic/slow while display- ing RPM and WATTS	Gap between sensor and magnetic ring is too wide.	Remove inspection plate and check sen- sor gap and that magnetic ring is not wobbly.

## E720 Ergometer.

**Quick start** provides instant workout information. Just start training to activate. You can choose to change UNITS displayed. **Note:** For complete operational instructions, please refer to the computer manual, which is included with your E720.



## **Using the First Degree Fitness USB Interface**

### **Description:**

The USB connectivity now built in to all new models of FDF Console and IPM allow you to enhance your exercise experience by connecting to your home PC or Laptop. Using FDF's own sample applications you can exercise while enjoying your favorite movies. *NetAthlon 2 XF for Rowers* lets you race with other Internet connected rowers in a Virtual Reality 3D environment or train solo.

### Setting up USB connectivity

- 1. Download and Install the USB Device Driver (CDM2xxxx\_Setup.exe for 32 and 64 bit Windows 7/Vista/XP) from the FDF Website.
- Download and Install the Sample USB Applications from the FDF Website (www.firstdegreefitness.com).
  Download and Install NetAthlon 2 XF for Rowers from <u>http://www.webracing.org/downloads.htm</u>

### **Connecting your**

- The USB Connector is located on a flying lead at the rear of the IPM, along with the Sensor and Heart Rate Monitor Connectors.
- Connect to a Laptop or PC using a standard USB cable, you may need to wait while Windows starts the USB Device Driver.

Note: Please refer to computer manual where applicable or for further information refer to our website at www.firstdegreefitness.com

## Tank Belt Adjustment

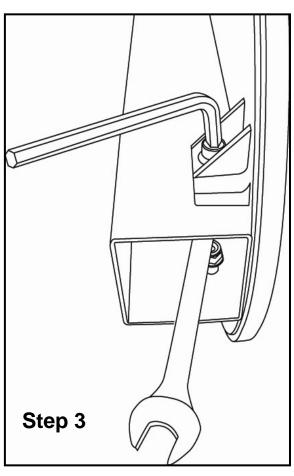
**Step 1:** Remove large metal inspection plate as shown above right.

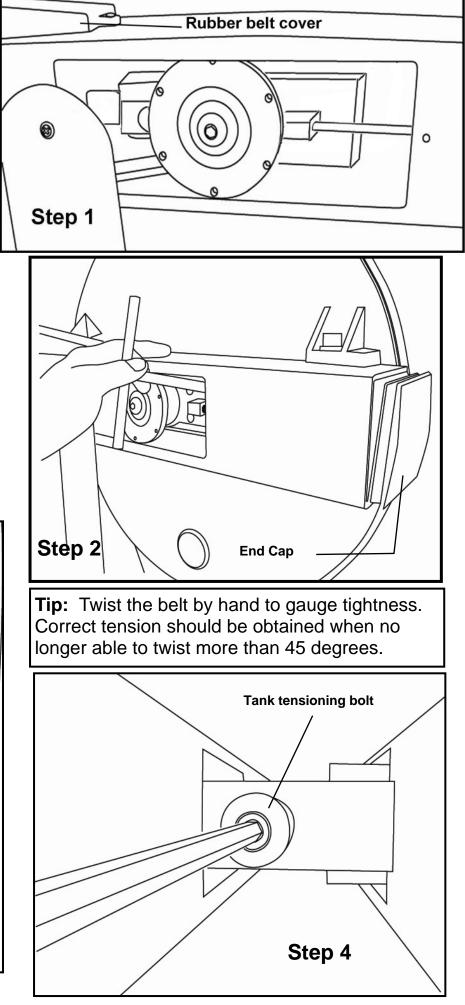
**Step 2:** Using a long tool, push out the rear end cap as pictured right. This will give you access to the tank tensioning bolt (shown bottom right).

**Step 3:** Loosen both the front and rear tank bolts as shown below. Remove front rubber belt cover.

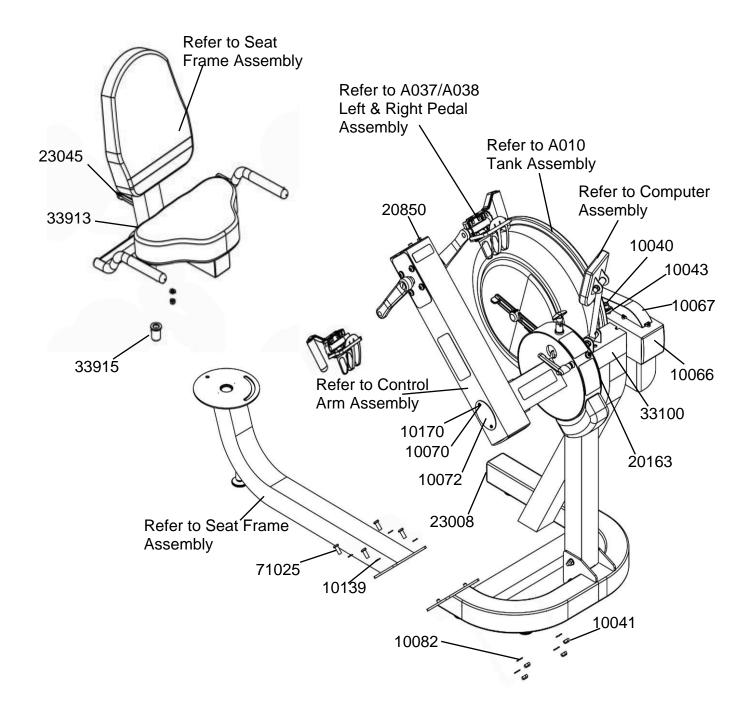
**Step 4:** Using a 6mm Allen key, tighten the belt using the tank tensioning bolt until the belt no longer slips during hard rowing.

Note: Do not over tighten tank bolts.



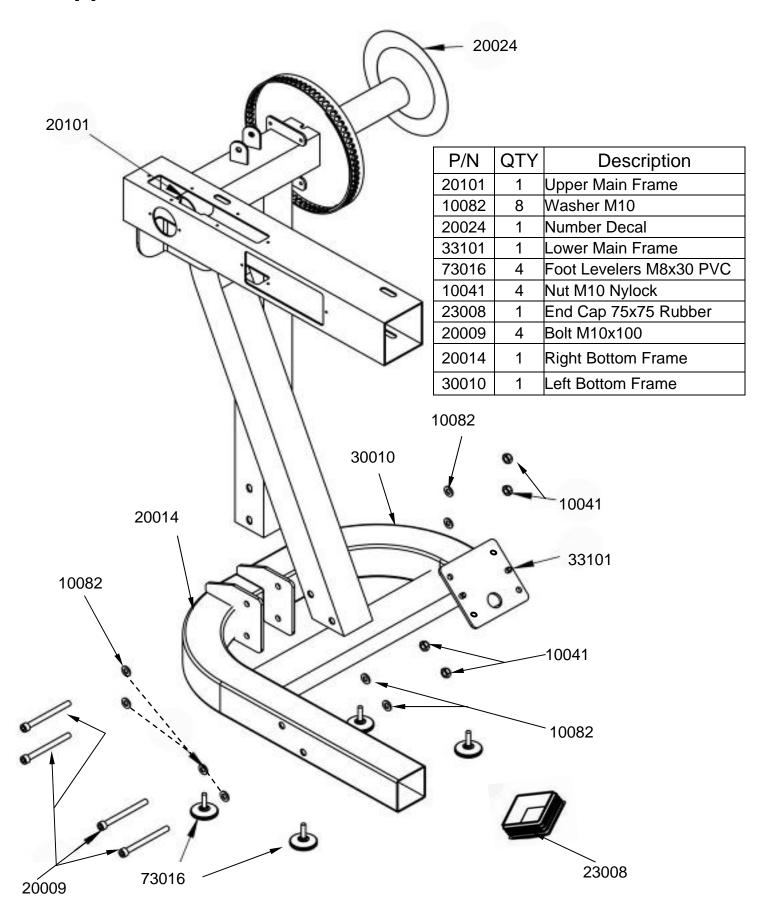


### E720 Exploded Diagram:

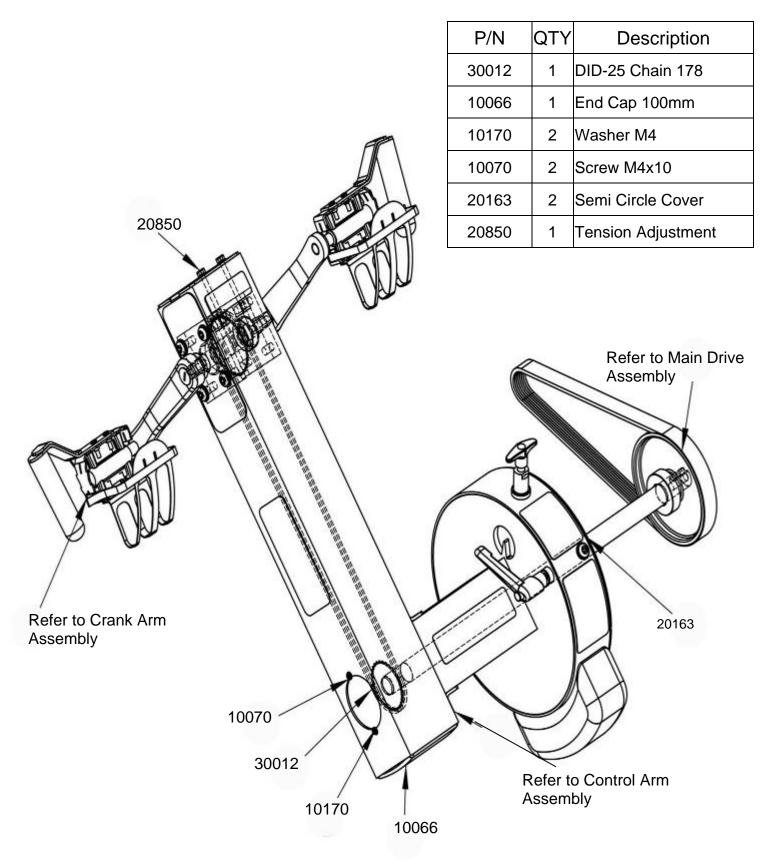


P/N	QTY	Description P/N QTY Description		Description		
10040	1	Bolt M12x140	10170	6	Washer M4	
10041	6	Nut M10 Nylock	23008	1	End Cap 75x75 Rubber	
10043	6	Washer M12	20163	2	Semi Circle Cover	
10066	3	End Cap 100x100mm	20850	1	Tension Adjustment	
10067		Rubber Cover for Large PK Pulley	23045	1	L Pin M10x35	
10070	18	Screw M4x10	33100	1	Main Frame Assembly	
10072	2	Small Steel Side Cover 100mm	33913	1	Plastic Spacer 10x25x4T	
10082	9	Washer M10	33915	1	Oil Bushing	
10139	2	Spring Washer Flywheel Shaft	71025	2	M10x25mm Main Shaft Rear Bracket Bolt	

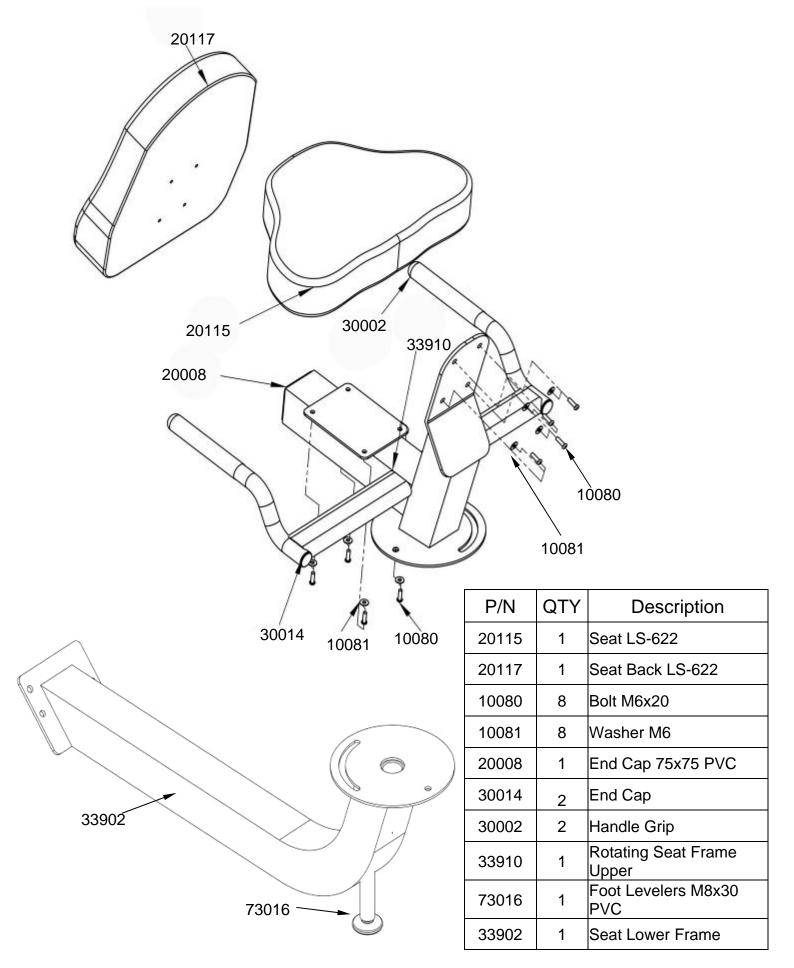
### **Upper/Lower Mainframe:**



### **Control Arm (external) Assembly:**

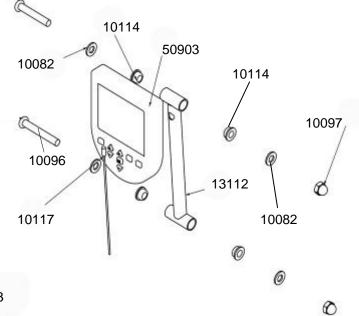


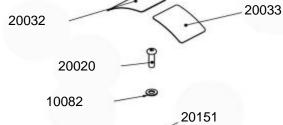
### Seat Frame Assembly:



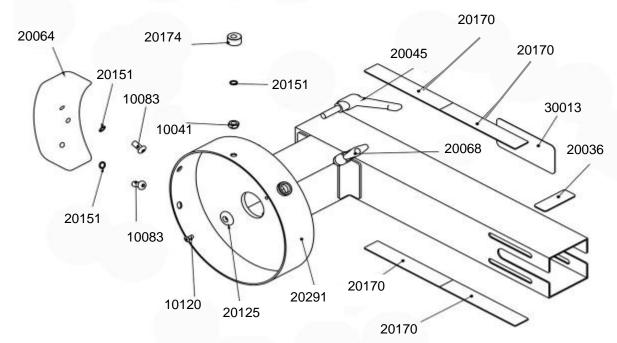
### **Computer Assembly**

P/N	QTY	Description
13112	1	Computer Mounting Arm
10114	4	Bushing 20x16x13x10
10082	4	Washer M10
10116	1	Bolt M10x60
10097	2	Nut Dome Head M10
10117	1	Computer Wiring 1200
10096	1	Bolt M10x70 for Aluminum Rail
50903	1	Computer





**Control Arm Assembly** 

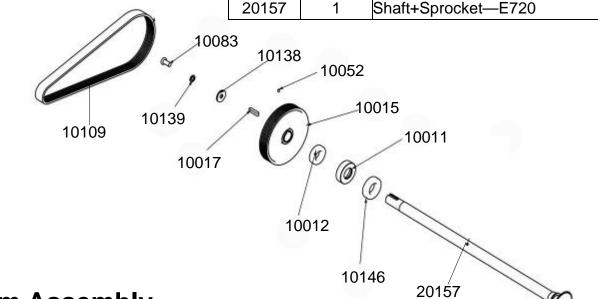


10116

P/N	QTY	Description	P/N	QTY	Description
10041	1	Nut M10 Nylock	20045	1	L-Pin M12x40
10082	1	Washer M10	20064	1	Weight Block
10083	2	Bolt M10x20	20068	1	T-Pin
10120	1	Screw M6x15	20125	1	Plastic Washer 30*6*6
20020	1	Bolt M10x35	20151	4	Washer M10
20032	1	Warning Decal	20170	4	Chain Protection Decal
20033	1	Arm Moving Decal	20174	1	Eccentric Bushing
20036	1	Small Warning Decal	20291	1	Rotating Arm
			30013	1	CXT Decal

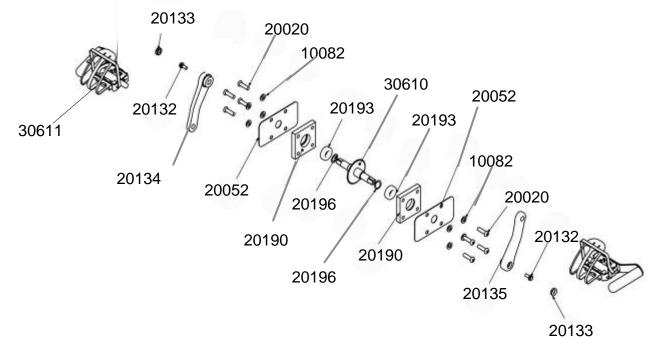
## Main Drive Assembly

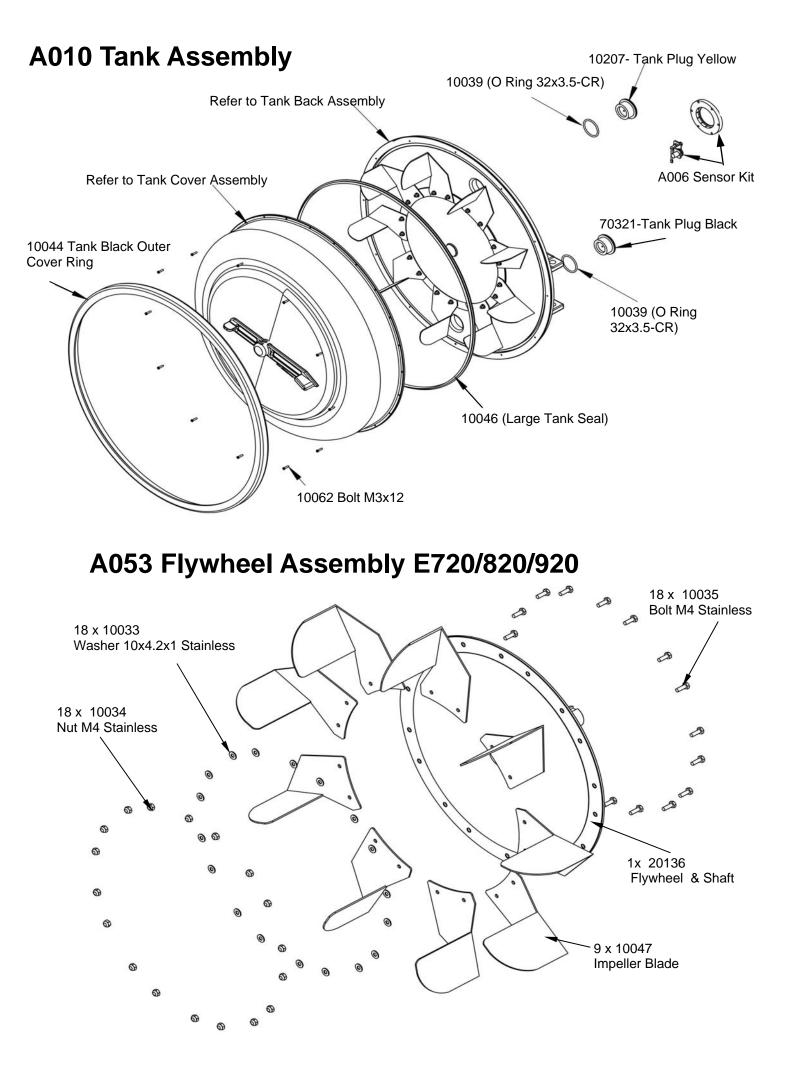
P/N	QTY	Description	P/N	QTY	Description
10011	1	Bearing Housing	10083	1	Bolt M10x20
10012	1	NSK 6005ZZ Bearing	10109	1	Belt 7PK 926mm HUTCHINSON
10015	1	Large PK Transmission Pul- ley 150mm	10138		Shaft Washer 30x10.2x3t for Fly- wheel, Stainless
10017	1	Key way 7x7x32	10139	1	Spring Washer M10 for Impeller
10052	1	Grub Screw M4x6	10146	1	Ball Bearing NSK6006ZZ
			00457		



## **Crank Arm Assembly**

P/N	QTY	Description	P/N	QTY	Description
10082	8	Washer M10	20135	1	Crank-Right
20020	8	Bolt M10x35	20190	2	Aluminum Block Bearing Housing
20052	2	Side Bearing Cover	20193		NSK 6004ZZ Aluminum Block Housing Bearing
20132	2	France Screw M8x20xP1.0	20196	2	Wave Washer 20mm
20133	2	Crank End Cap	30610	1	Cycle Axle + Cog
20134	1	Crank-Left	30611	1	Right Pedal Assembly



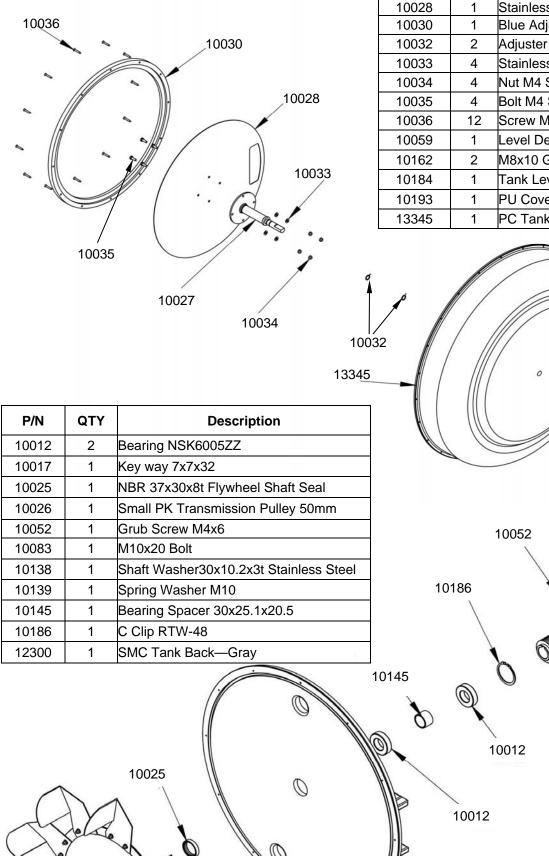


## A012 Tank Bearing & Seal Kit

P/N	Description	QTY	
10012	Bearing NSK 6005ZZ	2	
10025	Seal NBR 37x30x8t for Flywheel Shaft	1	10186
10145	Bearing Spacer 30x25.1x20.5mm	1	10012
10186	C Clip RTW-48	1	() ()
			0.

A013 Tank Back Kit P/N Description QTY Bearing NSK 6005ZZ Seal NBR 37x30x8t for Flywheel Shaft Bearing Spacer 30x25.1x20.5mm C Clip RTW-48 SMC Tank Back—Gray 

## **Tank Cover Assembly**



P/N	QTY	Description
10027	1	Adjuster Handle Shaft
10028	1	Stainless 0.8mm Backing Plate
10030	1	Blue Adjuster PP Tank Ring
10032	2	Adjuster O Ring 12x9x1.5
10033	4	Stainless Washer 10x4.2x1
10034	4	Nut M4 Stainless
10035	4	Bolt M4 Stainless
10036	12	Screw M3x20mm for Blue Tank Ring
10059	1	Level Decal 20R
10162	2	M8x10 Grub Screw
10184	1	Tank Level Resistance Handle
10193	1	PU Cover for Resistance Handle
13345	1	PC Tank Cover

See A053

**Flywheel Assembly** 

A054 Tank Back and **Flywheel Assembly** 

#### FLUID CYCLE XT (XT-E720) INTERNATIONAL WARRANTY – FULL COMMERCIAL USE

This product is designed and constructed for use in any Health Club / Fitness Studio application

First Degree Fitness Limited warrants that the Fluid Cycle XT (model FR-E720), purchased from an authorised agent and in its undamaged original packaging, is free from defects in materials and workmanship. First Degree Fitness Limited or its agent will, at their discretion, repair or replace parts that become defective within the warranty period, subject to the specific inclusions and exclusions below.

#### Metal Frame – 10 Year Limited Warranty

First Degree Fitness will repair or replace the metal Main Frame should it fail due to any defect in materials or workmanship within 10 years of the original purchase. Warranty does not apply to frame coating.

#### Polycarbonate Tank & Seals – 3 Year Limited Warranty

First Degree Fitness will repair or replace the polycarbonate tank or seals should they fail due to any defect in materials or workmanship within 3 years of the original purchase.

#### Mechanical Components (of a non-wearing nature) – 2 Year Limited Warranty

First Degree Fitness will repair or replace any mechanical component should it fail due to any defect in materials or workmanship within 2 years of the original purchase.

#### All Other Components (of a wearing nature) – 1 Year Limited Warranty

First Degree Fitness will repair or replace any component should it fail due to any defect in materials or workmanship within 1 year of the original purchase.

#### **Specific Inclusions**

Pedals & toe straps Hand grip assemblies Seat All rubber components Computer & speed sensor (excluding replaceable batteries) All drive belts & chains Crank arms All pulleys, rollers & bearings

#### **General Exclusions**

Damage to the finish of any part of the machine Damage due to neglect, abuse, incorrect assembly or use of the machine Any charges for freight or customs clearance associated with the return or dispatch of parts Any damage to or loss of goods during transport of any kind Any labour cost associated with a warranty claim

#### **General Conditions**

- The serial number of the machine must be correctly registered with First Degree Fitness Limited or one of its appointed distributors
- First Degree Fitness Limited reserve the right to examine any part where replacement is claimed under warranty
- Warranty commences at time of sale but no later than six (6) months from date of original shipment
- Warranty period applies only to the original purchaser from the date of purchase and is not transferable
- The product must be returned to your place of purchase in original packaging with transportation, insurance and associated charges paid for by you and risk of loss or damage assumed by you
- First Degree Fitness makes no other warranties except as stated here and expressly disclaims all warranties not stated in this warranty. Neither First Degree Fitness nor its associates shall be responsible for incidental or consequential damages
- Manufacturer's warranty automatically commences upon sale of the product to end user or upon the expiration of one (1) year from month of manufacture, whichever occurs first