

# **True Fitness Service Manual**

## **Elliptical Trainers**

**750E  
750EA  
600EA**

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**Revision 9/2004**

# Recommended Tool List

Technicians will need at minimum the tools listed below to work on the True Fitness equipment covered by these procedures.

## **Electrical Tools**

A multi meter capable of testing voltage, amperage, resistance and continuity.

Outlet tester with a grounding indicator.

Wire stripper, cutter and crimper.

Flashlight

## **Mechanical Tools**

Screwdrivers:

#1 Phillips, #2 Phillips, large flat blade, small flat blade, short handled flat blade.

Metric hex-key (Allen wrench) set.

Metric socket set and ratchet with 6mm to 19mm sizes and 21mm and 34mm sizes.

Metric combination wrenches with 4mm to 21mm sizes and a 27mm EI crank.

Snap ring pliers, both internal and external.

True Fitness Elliptical 2 19/32 Wrench pn: 90361501

Rubber mallet.

Channel lock pliers or standard pliers with a jaw opening of 2 9/16" for use in removing and tightening sleeve nuts.

Needle nose pliers.

Crescent wrench

## **Special Tool**

Bicycle crank puller

Park Tool USA CCP-2



# **True Fitness Elliptical Service Manual**

# **START**

❖ **Symptom guide**

❖ **Wiring Diagrams**

❖ **Parts Manual**

❖ **Removal and Replacement Procedures**

**D  
I  
A  
G  
N  
O  
S  
T  
I  
C  
S**

**To Enter Diagnostic Mode**

- Press and hold the “Start” key as you begin pedaling.
- Continue pedaling throughout the test.

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**Console / Display Output**

- Press “Enter” key – initiates the second LED function test.
- Press “Enter” key again –all LED’s should be on.

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**RPM**

- Press “Enter” key – RPM’s displayed in the far right window.

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**Console Key Input**

- Press “Enter” key –A beep should sound when each key is pressed.

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**Contact Heart Rate**

- Press “Enter” key. Hold both handle pick-ups. Heart symbol will flash and readout will display.

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**DA (Resistance)**

- Press “Enter” key – Press + to increase resistance and – to decrease resistance.

**Exit Diagnostics**

- To quit diagnostics press “Enter” key or stop pedaling and the unit will reset.

# **SYMPTOM GUIDE**

## **600EA**

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## **750E,750EA**

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## **All Models**

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Aluminum Extrusion Tubes . . . . . Page 12**





Symptom	Probable Cause	Corrective Action	Recommended Tools
<p><b>No Display 750E, 750EA</b></p>	<p><b>Console Set</b></p>	<ul style="list-style-type: none"> <li>• Remove console set bolts. Verify good connection at the back of the console set. Set meter for DC volts</li> <li>• Pedal.</li> <li>• Measure between #1 and #4 wires for 5.5 – 7.5 VDC.</li> <li>• Is required voltage present?</li> <li>• If yes- replace console set. If not, continue on.</li> </ul> <p style="text-align: center;">-----</p>	<p><b>Note:</b></p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>You must pedal at least 30 RPM when performing any voltage test. You may require the assistance of another person when performing voltage checks.</p> </div> <p>Multi-meter</p>
	<p><b>Brake</b></p>	<ul style="list-style-type: none"> <li>• Remove right side bar assembly, right mast cover and main body cover.</li> <li>• Disconnect 3- wire connector at brake.</li> <li>• Set meter for AC volts.</li> <li>• Pedal.</li> <li>• The voltage should increase as pedaling increases.</li> <li>• Is minimum voltage 9 VAC @ 30 RPM?</li> <li>• If No- replace Brake. If yes, continue on.</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Defective Cable</b></p>	<ul style="list-style-type: none"> <li>• Remove right side bar assembly, right mast cover and main body cover.</li> <li>• Disconnect 3- wire cable from brake and lower control board.</li> <li>• Set meter for continuity.</li> <li>• Check all 3 wires in cable for continuity.</li> <li>• No continuity? Replace cable</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Console Cable/ Lower Control Board</b></p>	<ul style="list-style-type: none"> <li>• Set meter for DC volts. Reconnect cable to brake and lower control board.</li> <li>• Pedal.</li> <li>• Measure for 5.5 – 7.5 VDC between #1 and #4 wires on 7- pin cable for the console at the lower control board.</li> <li>• Voltage is present? Replace cable for console.</li> <li>• Voltage not present? Replace lower control board.</li> </ul>	



Symptom	Probable Cause	Corrective Action	Recommended Tools
<p><b>NO CONTACT HEART RATE 750E, 750EA</b></p>	<p><b>Dirty Sensors</b></p> <p><b>Console Set/ Wiring</b></p> <p><b>Wire Connections</b></p>	<ul style="list-style-type: none"> <li>• Verify hand pulse sensors are clean.</li> </ul> <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> <li>• Set meter for continuity.</li> <li>• Remove Console set.</li> <li>• Check for continuity in both sets of hand pulse sensors between the console set and hand pulse sensor plates.</li> <li>• If continuity is OK – Replace Console set. If no- continue on.</li> </ul> <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> <li>• Check wire connections @ handlebar console mast joint</li> <li>• Check connections of wires to hand pulse sensor by removing hand pulse sensor plates.</li> <li>• To remove hand pulse sensor plates carefully pry under one end to free them from the plastic handgrips.</li> <li>• Bad connections? - Reconnect/ Replace bad wires.</li> <li>• Recheck continuity.</li> </ul>	<p style="text-align: center;"><b>Note:</b></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>You must pedal at least 30 RPM when performing any voltage test. You may require the assistance of another person when performing voltage checks.</p> </div> <p>Multi-meter</p> <p>Double sided tape</p>



Symptom	Probable Cause	Corrective Action	Recommended Tools
<b>VIBRATION FROM DRIVE TRAIN 750E, 750EA 600EA.</b>	<b>Belt Tension</b>	<ul style="list-style-type: none"> <li>Remove main body cover.</li> <li>Check poly V- belt for bumps- if bump exists, replace the belt.</li> <li>Check for proper belt tension. Belt should be very tight, grasp belt in the middle and twist, you should only be able to twist it 90 degrees.</li> </ul> <p>-----</p>	Long handled screwdriver
	<b>Brake Vibration</b>	<ul style="list-style-type: none"> <li>Pedal.</li> <li>Very carefully check brake for vibration, use <u>caution</u> as the moving arms cross in front of the brake.</li> <li>If vibration is found- tighten bolts and /or replace brake.</li> </ul> <p>-----</p>	
	<b>Wobbling Pulleys</b>	<ul style="list-style-type: none"> <li>Does pulley of either poly V- wheel wobble? If so then tighten bolts.</li> <li>If tightening does not resolve- replace damaged poly-v- wheels.</li> </ul> <p>-----</p>	
	<b>Shaft Vibrations</b>	<ul style="list-style-type: none"> <li>Check shaft assemblies. Check for endplay on shaft assemblies.</li> <li>Check for vibration in shaft assemblies by applying screwdriver to frame at shaft bearings.</li> <li>If vibration is found- replace shaft assembly.</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>Caution:</b> When checking for vibrations take care to not get caught by the pulleys, belts and moving parts.</p> </div> <p>-----</p>	
	<b>Vibrating Bearings</b>	<ul style="list-style-type: none"> <li>Check belt tensioned.</li> <li>Use screwdriver method to check bearings on wheel shaft.</li> <li>Replace tension wheel assembly.</li> </ul>	

Symptom	Probable Cause	Corrective Action	Recommended Tools
<b>KNOCKING IN RHYTHM OF PEDALING</b>	<b>Crank and Shaft</b>	<ul style="list-style-type: none"> <li>• Remove main body cover.</li> <li>• Check crank arm nuts for tightness.</li> <li>• Is noise coming from the crank area</li> <li>• If yes – remove crank, check shaft and crank for damage.</li> <li>• Replace parts as needed.</li> </ul> <p style="text-align: center;">-----</p>	Multi-meter 14mm socket 21mm socket 27mm socket
	<b>Swing Arm Bearings</b>	<ul style="list-style-type: none"> <li>• Check the moving arm bearing for noise.</li> <li>• Tighten nut and check for noise.</li> <li>• If noise continues – replace moving arm assembly.</li> </ul>	

Symptom	Probable Cause	Corrective Action	Recommended Tools
<p><b>SQUEALING / SCREECHING FROM ALUMINUM EXTRUSION TUBES 750E, 750EA, 600EA.</b></p>	<p><b>Cleaning Aluminum Extrusion Tubes</b></p>	<ul style="list-style-type: none"> <li>• Remove aluminum extrusion tubes.</li> <li>• Clean tracks with general purpose cleaner. <b>DO NOT USE PETROLIUM BASED CLEANERS</b> – it will degrade the rollers.</li> <li>• Clean roller.</li> </ul> <p style="text-align: center;">-----</p>	<p>Non- petroleum based cleaner. (For example: Simple Green)</p>
	<p><b>Checking Rollers</b></p>	<ul style="list-style-type: none"> <li>• Check rollers for bumps and flat spots.</li> <li>• Do rollers spin freely?</li> <li>• If rollers do not spin freely – replace rollers.</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Moving Arm Travel</b></p>	<ul style="list-style-type: none"> <li>• Do the moving arms run straight down the aluminum extrusion tubes?</li> <li>• If no – loosen nut on cubic joint.</li> <li>• If no help – replace moving arm assembly.</li> </ul>	



Symptom	Probable Cause	Corrective Action	Recommended Tools
<p><b>NO DISPLAY 600EA</b></p>	<p><b>Power Issues</b></p>	<ul style="list-style-type: none"> <li>• Set meter to AC voltage and test wall outlet to 120 VAC.</li> <li>• Turn power switch on</li> <li>• Does power switch lamp come on?</li> <li>• Yes – go to control panel.</li> <li>• No- remove rear cover.</li> <li>• Check voltage input to switch, is it 120 VAC? If yes – replace switch. If no – continue on.</li> <li>• Check voltage at end of power cord.</li> <li>• No voltage? Replace cord.</li> <li>• Check fuse in power inlet.</li> <li>• Replace fuse or replace power inlet and wires.</li> </ul> <p style="text-align: center;">-----</p>	<p>Multi-meter</p>
	<p><b>Control Panel</b></p>	<ul style="list-style-type: none"> <li>• Check connection to the display.</li> <li>• Reseat connection.</li> <li>• Set meter to DC volts, unplug display and check voltage between pin 1 and pin 2.</li> <li>• If 12VDC is present – replace control panel.</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Power Supply</b></p>	<ul style="list-style-type: none"> <li>• Check voltage between pin 2 and pin 3 at the power supply.</li> <li>• If 12 VDC present – replace power supply.</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Cables</b></p>	<ul style="list-style-type: none"> <li>• Perform a continuity check on the cables leading to the control panel.</li> <li>• Replaced damaged cables.</li> </ul>	

Symptom	Probable Cause	Corrective Action	Recommended Tools
<p><b>NO SPEED READING 600EA</b></p>	<p><b>Console Assembly</b></p>	<ul style="list-style-type: none"> <li>• Remove monitor bolts. Move the swing arms until the magnet is in front of the sensor.</li> <li>• Set meter for DC volts. Check voltage between pin 3 and pin 1 at console assembly with cable connected.</li> <li>• Move swing arms. When magnet is over the pickup the voltage should be 0 VDC. When the magnet is not over the pickup, the voltage should be 5 VDC.</li> <li>• Does the voltage alternate between 0 VDC and 5 VDC? If yes – replace console assembly.</li> </ul> <p style="text-align: center;">-----</p>	<p>Multi-meter</p>
	<p><b>RPM Sensor</b></p>	<ul style="list-style-type: none"> <li>• Turn power off, remove rear cover</li> <li>• Disconnect the sensor connector. Set meter for resistance.</li> <li>• Check resistance at the 2 pins of the connector. Slowly move the swing arms to rotate the wheel.</li> <li>• Does the meter show continuity when the magnet is over the pickup? If no – replace the sensor.</li> </ul> <p style="text-align: center;">-----</p>	
	<p><b>Defective ECB Control Board</b></p>	<ul style="list-style-type: none"> <li>• Perform a continuity and contact check on the console wire.</li> <li>• Replace defective wire.</li> </ul>	



# WIRING DIAGRAMS

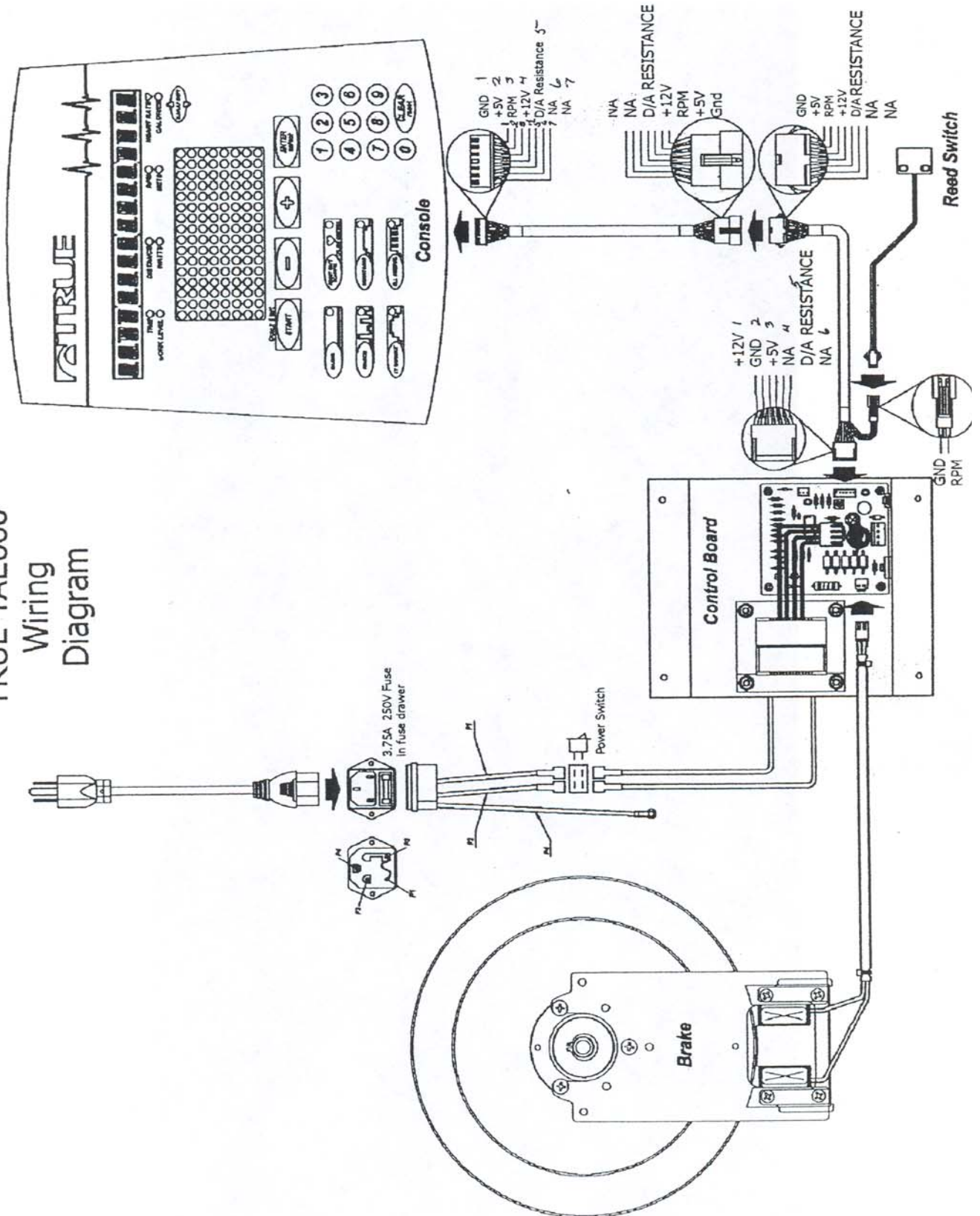
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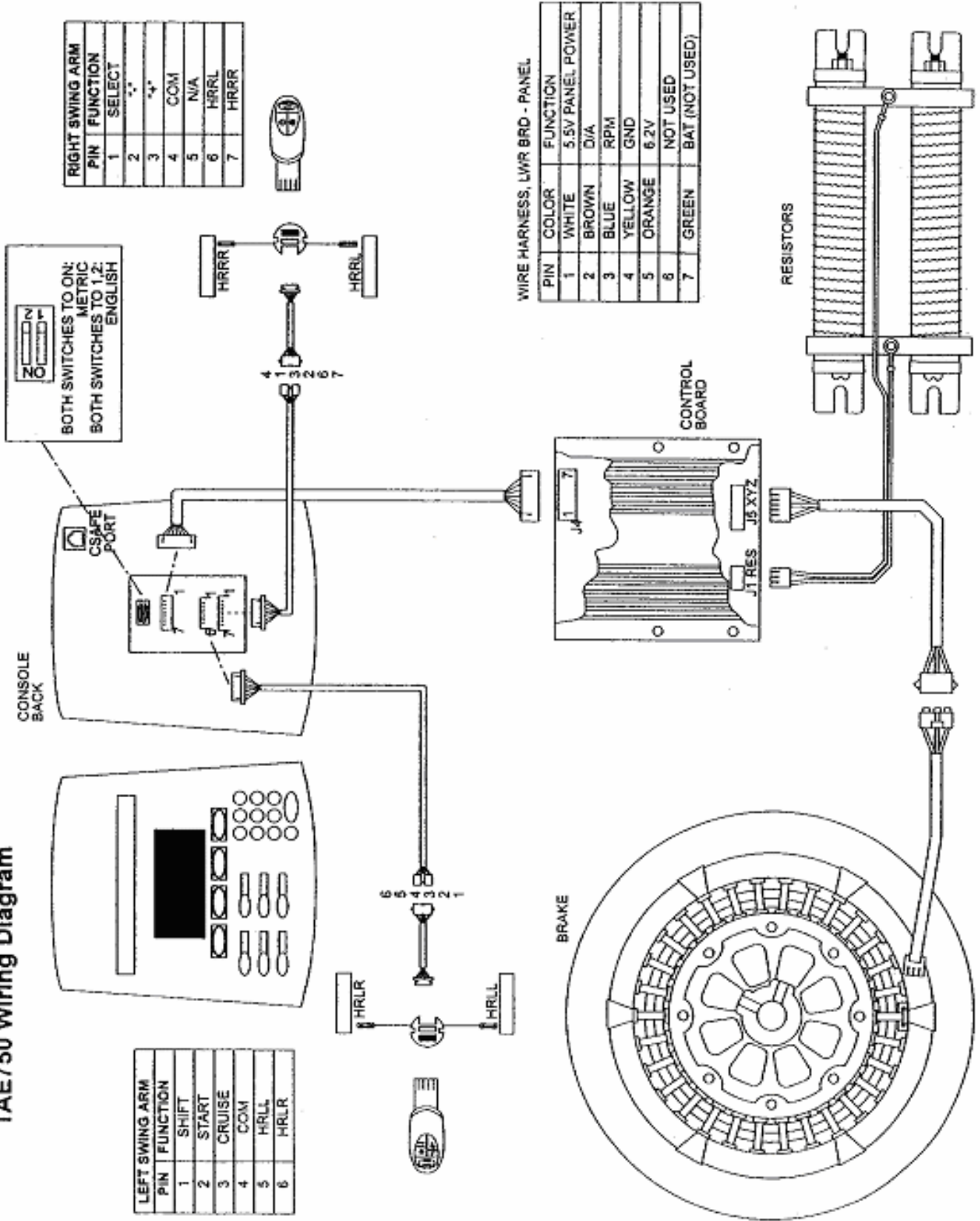
# TRUE TAE 600 WIRING DIAGRAM

## TRUE TAE600 Wiring Diagram



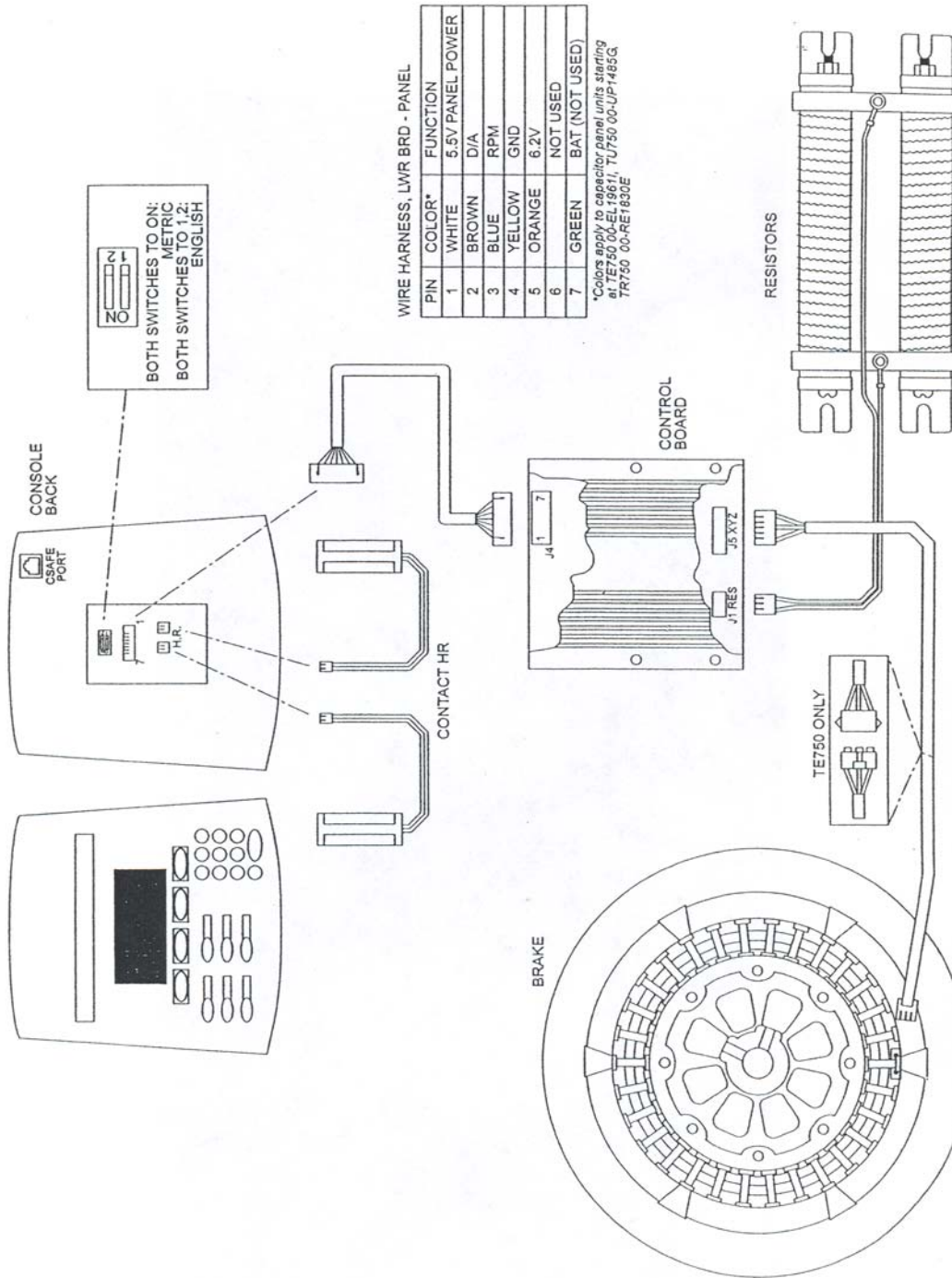
# TRUE TAE 750 WIRING DIAGRAM

FAE750 Wiring Diagram



# TRUE TE 750 WIRING DIAGRAM

TE 750 Wiring Diagram

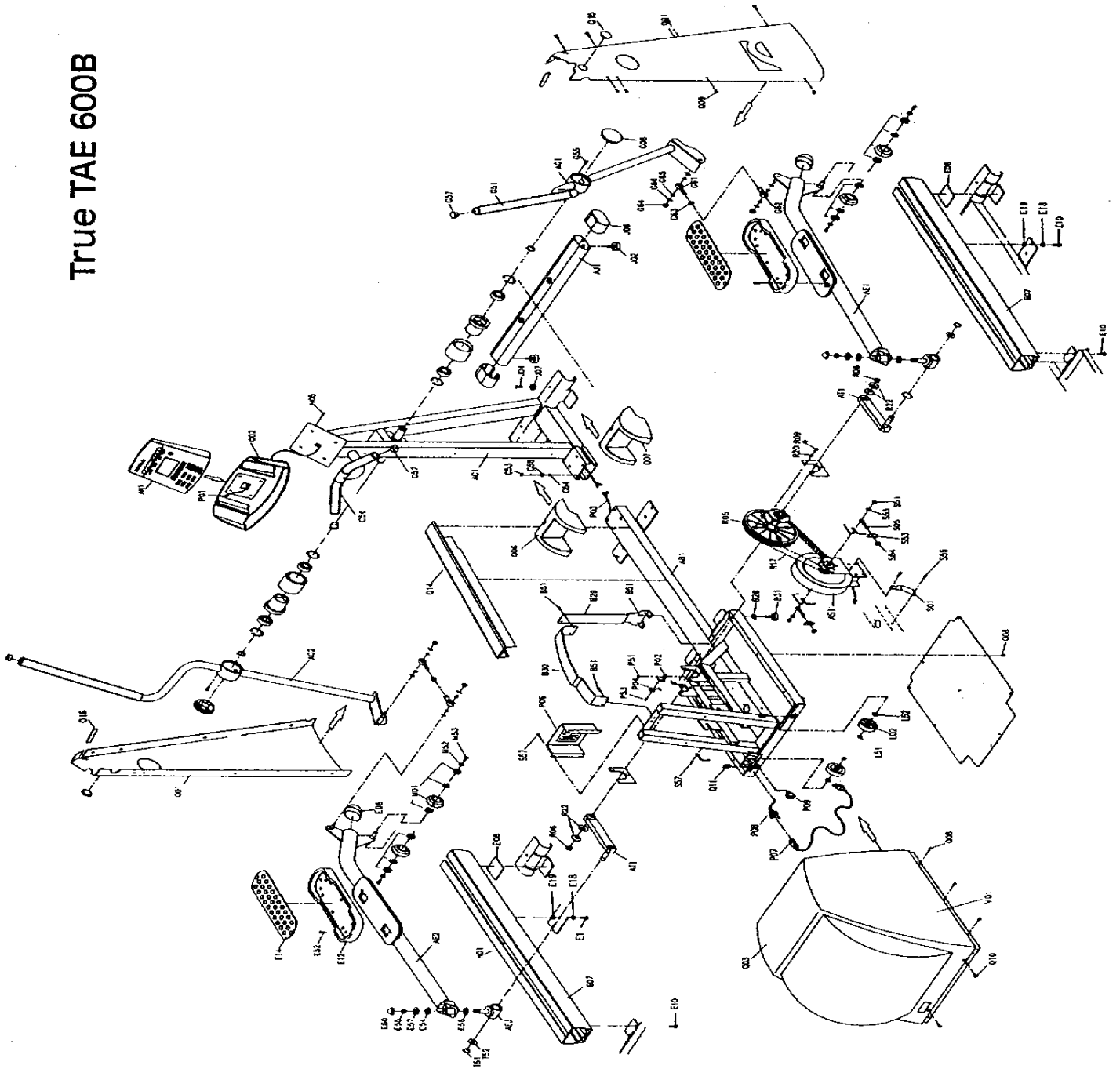


# True Armed Elliptical 600B

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# TRUE TAE 600 PARTS DIAGRAM

True TAE 600B



## TAE 600B

REF #	PART#	DESCRIPTION	QTY
AC1	7TSZEP42CSM	CONSOLE MAST ASSY	1
AE1	7TSZEP17PAM-6R1	RIGHT ARM ASSY	1
AE2	7TSZEP17PAM-6L1	LEFT ARM ASSY	1
AE3	7TSW0306011A	MVG ARM PIVOT	2
AG1	7TSZEP25HDB-R	HANDLEBAR ASSY RH	1
AG2	7TSZEP25HDB-L	HANDLEBAR ASSY LH	1
AJ1	7TSZEP07FST	FRNT STBL ASSY	1
AN1	7TS12325001	CONSOLE ASSY	1
AS1	7TMD0208010C	BRAKE ECB SET	1
AT1	7TS08317001	CRANK ARM	2
B28	7TMB0301002	FOOT PAD WASHER	2
B29	7TMJ1390003E	VERTCL SPT PLATE	1
B30	7TMJ1390004	UPPER SPT PLATE	1
B31	7TMB0302002	FOOT PAD	2
B51	7TME0102021	SCREW CVR SPT	6
C53			4
C54			4
C55			4
C56	7TMB0401050A	STATIONARY BAR	2
E05	7TMB0609025	STABILIZER BAR	2
E07	7TSZEP25RAL	ARM TRACK	1
E08	7TMB0674006	RUBBER PLATE TRK	2
E10	7TME0112024	OVAL HEX SKT TRK	8
E12	7TMB0206002C	FOOT PLATE	2
E14	7TMB0304011	FOOT PLATE INSERT	2
E18	7TME0502027	FLAT WASHER	8
E19	7TME0501007	SPRING WASHER	8
E52	7TME0102027	SCREW FOOTPLATE	8
E54	7TME0505037	TEFLON WASHER	2
E55	7TME0204026	NYLON NUT	2
E56	7TME0505020	TEFLON WASHER	2
E57	7TME0502006	FLAT WASHER	2
E60	7TMB0609063B	MVG ARM JOINT	2
G08	7TMB0678005A	END CAP SWING ARM	2
AC1	7TSP0302022A	CONSOLE MAST	1
G51	7TMB0401058A	FOAM GRIP UPPER H/BAR	2
G55	7TME0104057	SCREW RND HEX	8
G57	7TMB0609018	HNDLBR END CAP	4
G61	7TMD0508001	CONNECTOR ARM A	1
G62	7TMD0508002	CONNECTOR ARM B	1
G63	7TME0101042	CONNECTOR ARM NUT	1
G64	7TME0204007	NYLON NUT	4
G65	7TME0506013	WAVE WASHER	8
G66	7TME0508011	WASHER CONNECTOR ARM	8
J02	7TMB0304006	FT LEVELER	2
J04	7TME0112024	SCREW FT STABILIZER	2
J06	7TMB0609035	END CAP STABILIZER	2
J07	7TMJ3344001	RAIL CVR ANCHOR	22
L02	7TMB0103002	MOVING WHEEL	2

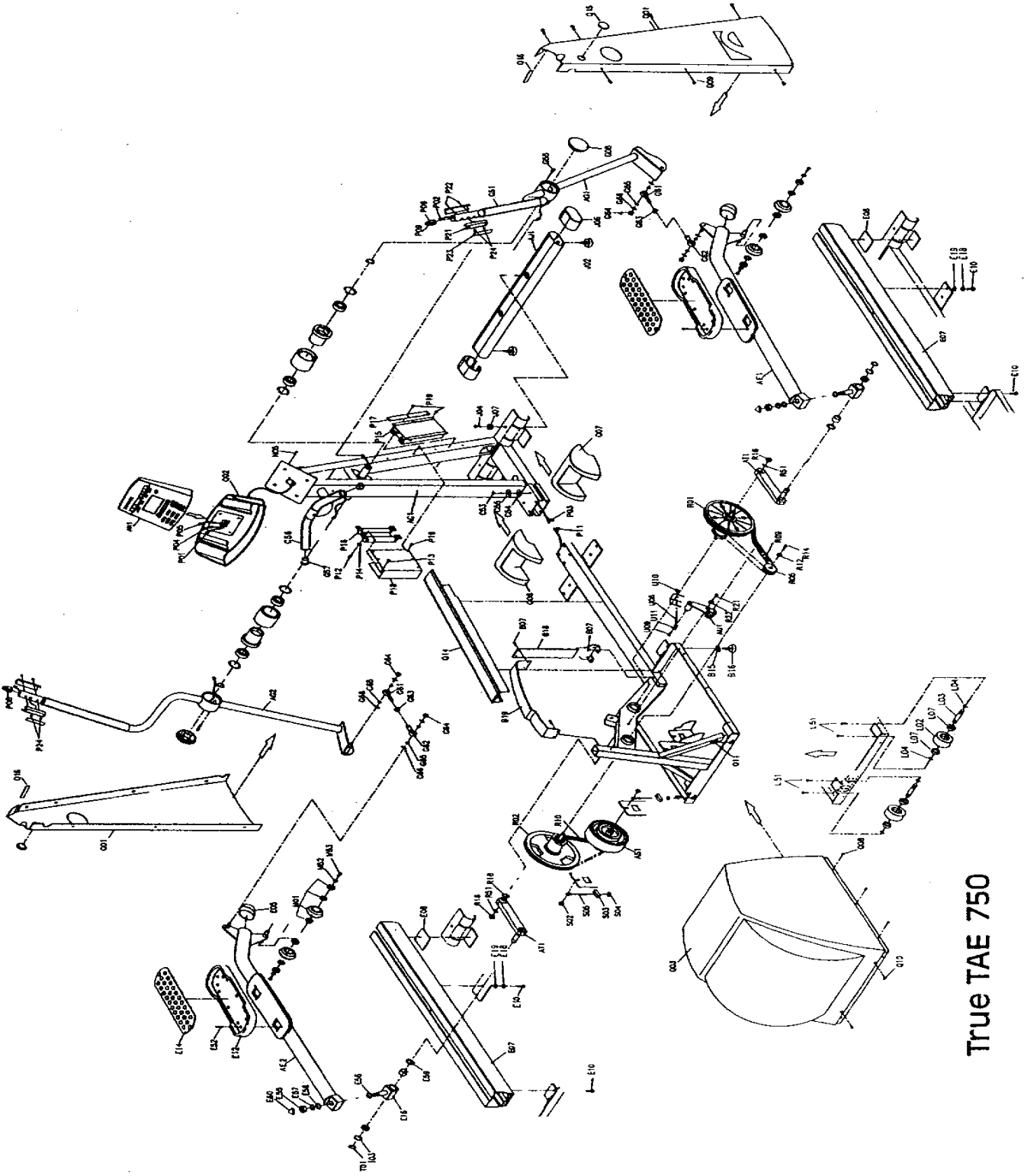
L51	7TME0204005	NYLON NUT	2
L52	7TME0502030	FLAT WASHER	2
M01	7TS11317001	WHEEL ASSY MVG ARM	1
M52	7TME0502026	FLAT WASHER	4
M53	7TME0112074	SCREW OVAL HEX SCKT	4
N05	7TME0104055	SCREW CNTRL PNL	4
P01	7TMC0501045D	CONSOLE WIRE UPPER	1
P02	7TMJ1802001	SENSOR BRKT	1
P03	7TMC0522004	CONSOLE WIRE LOWER	1
P04	7TMC0510039B	RPM SENSOR W/WIRE	1
P06	7TMC0203006B	CONTROL BOARD	1
P07	7TMC0504042	POWER CORD	1
P08	7TMC0703019A	POWER SOCKET	1
P09	7TMC0701002	POWER SWITCH	1
P51	7TME0102021	RPM SENSOR SCREW	1
P53	7TME0108004	SCREW OVAL TAPPING	2
Q01	7TMB0202036A	PEDESTAL SIDE CVR	2
Q02	7TMB0601005	WATER BTL HLDR	1
Q03	7TMB0222005A	MAIN CVR	1
Q06	7TMB0246001	RAIL CVR LH	1
AC1	7TSP0302022A	CONSOLE MAST	1
Q07	7TMB0246002	RAIL CVR RH	1
Q08	7TME0121005	MAIN CVR	19
Q09	7TME0107030	PEDESTAL CVR	14
Q10	7TME0107013	MAIN CVR	6
Q11	7TME0701001	C CLIP MAIN CVR	2
Q14	7TMB0627006B	CORROSION CVR	1
Q15	7TMB0613010A	RND PLUG RT SIDE CVR	2
Q16	7TMB0678018A	RECTANGULER PLUG	1
R05	7TMJ3305016A	POLY V WHEEL	1
R06	7TME0208006	NUT HEX HEAD	2
R09	7TME0104047	FLYWHEEL	6
R17	7TMD0603005	POLY V BELT	1
R20	7TME0504006	WASHER	6
R22	7TME0508004	WASHER	4
S01	7TMJ1374012A	ECB CONNECTION PLATE	1
S05	7TME0110002	EYE-BOLT	2
S51	7TME0201012	AXLE NUT	2
S53	7TMJ1245001	BELT ADJ	2
S54	7TME0204010	BELT ADJ	2
S55	7TME0502054	AXLE NUT	2
S56	7TME0102021	BRAKE BRKT	2
S57	7TME0107013	CONTROL BOARD	5
T51	7TME0902015	CRANK PIN	2
T52	7TME0506012	CRANK PIN	2
V01	7TMG0102057B	REAR CVR	2
	7TME0606037C	ASSEMBLY	1



# **True Armed Elliptical 750**

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# TRUE TAE 750 PARTS DIAGRAM



True TAE 750

# TAE 750

REF. #	PART #	DESCRIPTION	QTY
AC1	7TSZEP17CSM	PEDESTAL ASSY-WITH PIVOT BEARING BLOCK ASSY	1
AE1	7TSZEP17PAM-7R1	PEDAL ARM ASSY-RH	1
AE2	7TSZEP17PAM-7L1	PEDAL ARM ASSY-LH	1
AG2	7TSZEP17HDB-R	HANDLEBAR ASSY-RH(TALL)	1
AG2	7TSZEP17HDB-R1	HANDLEBAR ASSY-RH(SHORT)	1
AG3	7TSZEP17HDB-L	HANDLEBAR ASSY-LH(TALL)	1
AG3	7TSZEP17HDB-L1	HANDLEBAR ASSY-LH(SHORT)	1
AJ1	7TSZEP07FST	STABILIZER ASSY-FRONT	1
AN1	7TS12317001	CONTROL PANEL	1
AS1	7TMZD0208007	BRAKE ASSY	1
AS1	7TMD0208016B	BRAKE ASSY-AFTER SERIAL # 02-EA-1102K	1
AT1	7TSZW0306007	CRANK ARM ASSY	2
AU1	7TSM0325001	BELT TENSIONER ASSY-PRIMARY	1
B07	7TME0102021	SCREW-FRAME SUPPORT	6
B15	7TMB0301002	LEVELER LOCK NUT-REAR	4
B16	7TMB0302002	LEVELER-REAR	4
B18	7TMJ1390001	COVER LOWER SUPPORT-REAR	1
B19	7TMJ1390004	COVER UPPER SUPPORT-REAR	1
C15	7TME0104165	BOLT-PEDESTAL MOUNTING	4
C16	7TME0502019	WASHER-PEDESTAL MOUNTING	4
C17	7TME0501007	SPRING WASHER-PEDESTAL MOUNTING	4
C56	7TMB0401050A	GRIP-FIXED HANDLEBAR	2
E04	7TMB0206002C	PEDAL PLATE (PLASTIC)	2
E05	7TMB0609025	END CAP-PEDAL ARM	2
E07	7TSZEP25RAL	PEDAL ARM TRACK	2
E08	7TMB0674006	RUBBER PAD-PEDAL ARM TRACK	2
E10	7TME0112024	SCREW-TRACK MOUNTING	8
E12	7TME0102027	SCREW-PEDAL PLATE	8
E15	7TMB0304011	PEDAL PLATE COVER (RUBBER)	2
E18	7TME0502027	FLAT WASHER-TRACK MOUNTING	8
E19	7TME0501007	SPRING WASHER-TRACK MOUNTING	8
G04	7TMB06A7001	BRACKET-PULSE SENSOR	2
G05	7TME0102069	SCREW-PULSE BRACKET	4
G06	7TMJ1278001	SENSOR PLATE-PULSE	2
G07	7TME0201028	NUT-PULSE BRACKET	4
G08	7TMB0678005A	END CAP-SWING ARM PIVOT	2
G51	7TMB0401059A	GRIP-UPPER BODY HANDLEBAR	2
G61	7TMD0508001	SWIVAL JOINT	2
G62	7TMD0508002	SWIVAL JOINT	2
G64	7TME0204007	NYLON NUT-SWIVAL JOINT	4
G66	7TME0508011	CONE WASHER-SWIVAL JOINT	8
J02	7TMB0304006	LEVELER-FRONT	2
J04	7TME0112024	SCREW-FRONT STABILIZER	2
J06	7TMB0609035	END CAP-FT STABILIZER	2
J07	7TMJ3344001	RETAINER-RAIL COVER	2
P01	7TMC0501027	CABLE-DISPLAY	1
P02	7TMC0516021B	CABLE-REMOTE SWITCH(H/BAR END)	2
P03	7TMC0535004	CABLE-BRAKE (LOWER BOARD END)	1

P04	7TMC0516022B	CABLE-REMOTE SWITCH(LH CONSOLE END)	1
P05	7TMC0516023C	CABLE-REMOTE SWITCH(RH CONSOLE END)	1
P06	7TMC0535005	CABLE-BRAKE (BRAKE END)	1
P06	7TMC0712019B	SWITCH-RH HANDLEBAR REMOTE	
P07	7TME0204003	NYLON NUT-RESISTOR MOUNTING	4
P08	7TME0102027	SCREW-RESISTOR MOUNT	7
P08	7TMC0712020B	SWITCH-LH HANDLEBAR REMOTE	
P09	7TME0502082	WASHER-RESISTOR MOUNT	4
P11	7TMC0203004	CONTROL BOARD	1
P12	7TMC0736002	RESISTOR	1
P17	7TMB06B8001	MOUNT-CONTROL BOARD	1
P18	7TMJ1393003	BRACKET-RESISTOR	1
P20	7TME0107037	SCREW-RESISTOR MOUNT	11
Q01	7TMB0202036A	SIDE COVER SET-LEFT & RIGHT	1
Q02	7TMB0601005	BOTTLE HOLDER	1
Q03	7tszep07Fcv	COVER-REAR	1
Q06	7TMB0246001	COVER-LEFT RAIL	1
Q06	7TMB0246002	COVER-RIGHT RAIL	1
Q08	7TME0102053	SCREW-REAR COVER	10
Q09	7TME0107030	SCREW-SIDE COVERS	12
Q10	7TME0107013	SCREW-REAR COVER	2
Q11	7TME0701001	C CLAMP-REAR COVER	2
Q14	7TMB0627006B	COVER-CENTER FRAME MEMBER	1
Q15	7TMB0613010A	PLUG-ROUND-SIDE COVER	2
Q16	7TMB0678018A	PLUG-SQUARE-SIDE COVER	1
R01	7TSM0330001	SHAFT ASSY-PEDAL CRANK	1
R02	7TSM0330002	SHAFT ASSY-SECONDARY DRIVE W/SMALL POLY V WHEEL	1
R09	7TMD0604001	POLY V BELT-PRIMARY DRIVE	1
R10	7TMD0601014	POLY V BELT-SECONDARY DRIVE	1
R16	7TME0208008	NUT-CRANK ARM	2
R21	7TME0112024	SCREW-TENSIONER MOUNTING	1
R22	7TME0502035	WASHER-TENSIONER MOUNTING	1
R26	7TSZEP17CPS	PIVOT-PEDAL ARM	2
R27	7TS11317001	WHEEL-PEDAL ARM	4
R28	7TME0502026	WASHER-PEDAL ARM WHEEL	4
R29	7TME0112074	SCREW-PEDAL ARM WASHER	4
S02	7TME0202012	NUT-BRAKE AXLE NUT	2
S03	7TMJ1245001	BRACKET-BRAKE BELT ADJUSTER	2
S04	7TME0204010	NYLON NUT-BRAKE BELT ADJUSTER	2
S05	7TME0110015	BOLT-BRAKE BELT ADJUSTER	2
U08	7TME0110009	BOLT-PRIMARY BELT ADJUSTER	2
U09	7TME0102010	SCREW-PRIMARY BELT ADJUSTER	1
U10	7TME0204009	NYLON NUT-PRIMARY BELT ADJUSTER	1
U11	7TME0502098	WASHER-PRIMARY BELT ADJUSTER	1
	7TMG0102032	DECAL-REAR COVER(WHITE)	2
	7TMG0102096D	DECAL-REAR COVER(SILVER)	2
	7TME0606037C	HARWARE KIT-ASSEMBLY	1

# True Elliptical 750

## Prior to Serial # 00-EL2253L (Non-Cartridge Bearing)

❖ Exploded diagram Page 28

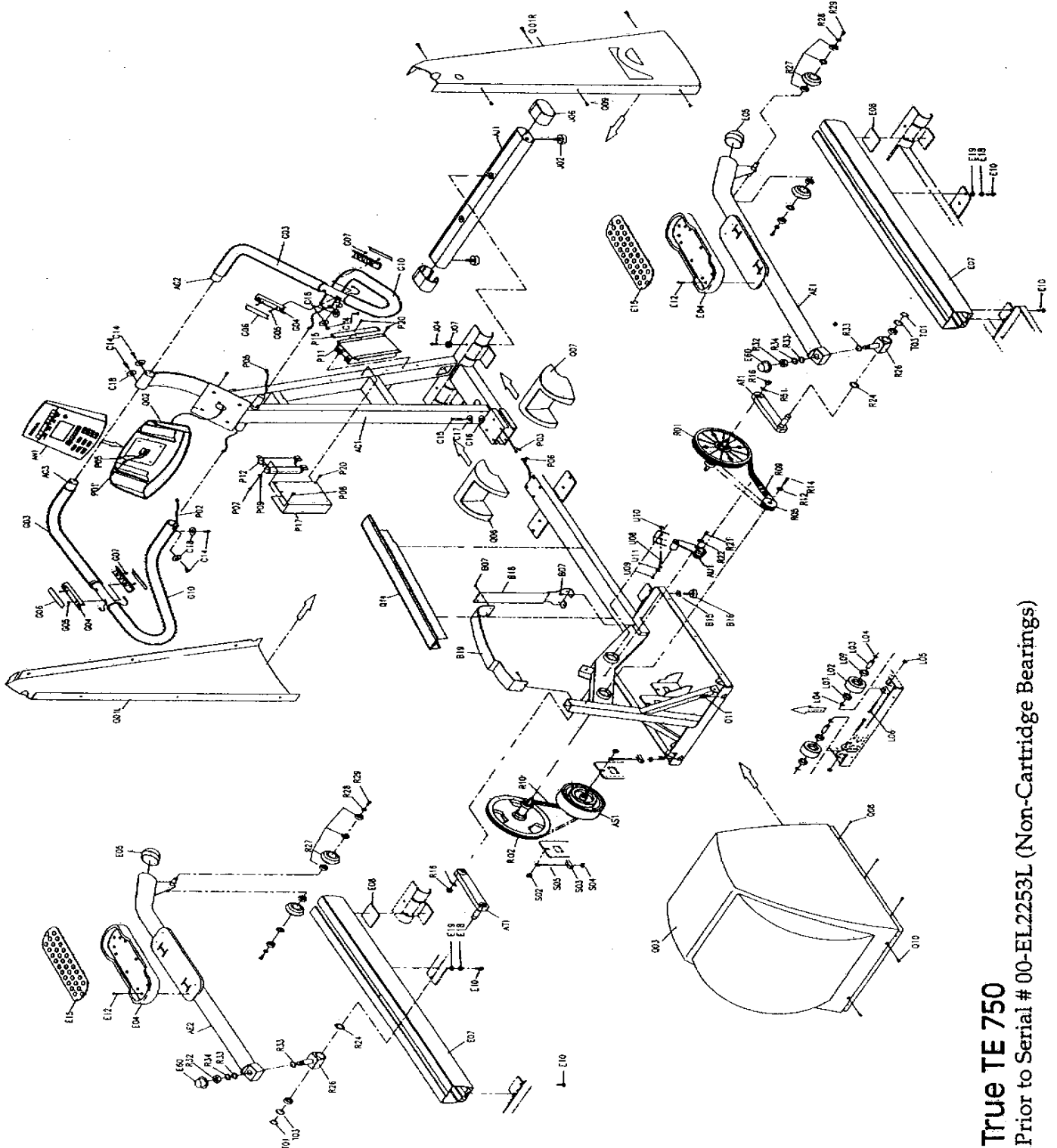
❖ Parts lists Page 29

## After Serial # 00-EL2253L (Cartridge Bearing)

❖ Exploded diagram Page 31

❖ Parts lists Page 32

# TRUE TE 750 PARTS DIAGRAM (Non-Cartridge Bearings)



**True TE 750**  
Prior to Serial # 00-EL2253L (Non-Cartridge Bearings)

# TE 750 PRIOR TO SERIAL # 00-EL2253L

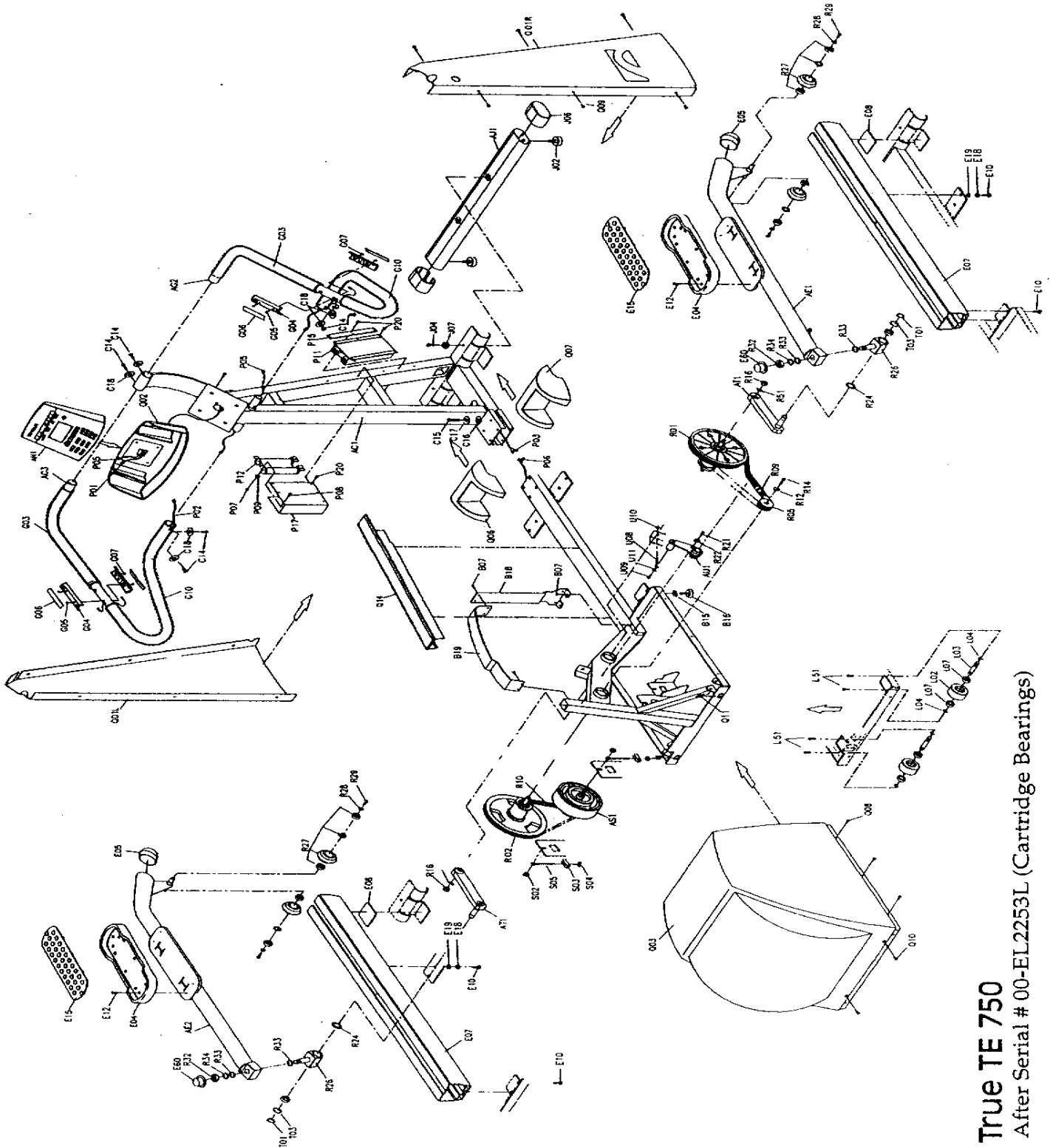
(Non- Cartridge Bearings)

REF. #	PART #	DESCRIPTION	QTY
AC1	7TSP0302010	PEDESTAL	1
AE1	7TSZ03307001R	PEDAL ARM ASSY-RH	1
AE2	7TSZ03307001L	PEDAL ARM ASSY-LH	1
AG2	7TSZEP07HDB-R	HANDLEBAR ASSY-RH	1
AG3	7TSZEP07HDB-L	HANDLEBAR ASSY-LH	1
AJ1	7TSZEP07FST	STABILIZER ASSY-FRONT	1
AN1	7TSZM0307002	CONTROL PANEL	1
AS1	7TMZD0208007	BRAKE ASSY	1
AS1	7TMD0208016B	BRAKE ASSY-AFTER SERIAL # 02-EL0541J	1
AT1	7TSZW0306007	CRANK ARM ASSY	2
AU1	7TSM0325001	BELT TENSIONER ASSY-PRIMARY	1
B07	7TME0102021	SCREW-FRAME SUPPORT	6
B15	7TMB0301002	LEVELER LOCK NUT-REAR	4
B16	7TMB0302002	LEVELER-REAR	4
B18	7TMJ1390001	COVER LOWER SUPPORT-REAR	1
B19	7TMJ1390004	COVER UPPER SUPPORT-REAR	1
C14	7TME0112029	SCREW-HANDLEBAR MOUNTING	6
C15	7TME0104165	BOLT-PEDESTAL MOUNTING	4
C16	7TME0502019	WASHER-PEDESTAL MOUNTING	4
C17	7TME0501007	SPRING WASHER-PEDESTAL MOUNTING	4
E04	7TMB0206002C	PEDAL PLATE (PLASTIC)	2
E05	7TMB0609025	END CAP-PEDAL ARM	2
E07	7TSZEP25RAL	PEDAL ARM TRACK	2
E08	7TMB0674006	RUBBER PAD-PEDAL ARM TRACK	2
E10	7TME0112024	SCREW-TRACK MOUNTING	8
E12	7TME0102027	SCREW-PEDAL PLATE	8
E15	7TMB0304011	PEDAL PLATE COVER (RUBBER)	2
E18	7TME0502027	FLAT WASHER-TRACK MOUNTING	8
E19	7TME0501007	SPRING WASHER-TRACK MOUNTING	8
G04	7TMB06A7001	BRACKET-PULSE SENSOR	2
G05	7TME0102069	SCREW-PULSE BRACKET	4
G06	7TMJ1278001	SENSOR PLATE-PULSE	2
G07	7TME0201028	NUT-PULSE BRACKET	4
J02	7TMB0304006	LEVELER-FRONT	2
J04	7TME0112024	SCREW-FRONT STABILIZER	2
J06	7TMB0609035	END CAP-FT STABILIZER	2
J07	7TMJ3344001	RETAINER-RAIL COVER	2
P01	7TMC0501027	CABLE-DISPLAY	1
)2	7TMC0516005	CABLE-HRC PEDESTAL END	2
P03	7TMC0535004	CABLE-BRAKE (LOWER BOARD END)	1
P05	7TMC0539003	CABLE-HRC HANDLEBAR END	2
P06	7TMC0535005	CABLE-BRAKE (BRAKE END)	1
P07	7TME0204003	NYLON NUT-REISTOR MOUNTING	4
P08	7TME0102027	SCREW-RESISTOR MOUNT	7

P09	7TME0502082	WASHER-RESISTOR MOUNT	4
P11	7TMC0203004	CONTROL BOARD	1
P12	7TMC0736002	RESISTOR	1
P17	7TMB06B8001	MOUNT-CONTROL BOARD	1
P18	7TMJ1393003	BRACKET-RESISTOR	1
P20	7TME0107037	SCREW-RESISTOR MOUNT	11
Q01L	7TMB020202A	SIDE COVER-LEFT FRONT	1
Q01R	7TMB020202R	SIDE COVER-RIGHT FRONT	1
Q02	7TMB0601005	BOTTLE HOLDER	1
Q03	7TMB0222003	COVER-REAR	1
Q06	7TMB0246001	COVER-LEFT RAIL	1
Q06	7TMB0246002	COVER-RIGHT RAIL	1
Q08	7TME0102053	SCREW-REAR COVER	10
Q09	7TME0107030	SCREW-SIDE COVERS	12
Q10	7TME0107013	SCREW-REAR COVER	2
Q11	7TME0701001	C CLAMP-REAR COVER	2
Q14	7TMB0627006B	COVER-CENTER FRAME MEMBER	1
R01	7TSZEP07DAX	SHAFT ASSY-PEDAL CRANK	1
R02	7TSZEP07PUL	SHAFT ASSY-SECONDARY DRIVE	1
R05	7TMZD0112013	POLY V WHEEL-SMALL	1
R09	7TMD0604001	POLY V BELT-PRIMARY DRIVE	1
R10	7TMD0601014	POLY V BELT-SECONDARY DRIVE	1
R16	7TME0208008	NUT-CRANK ARM	2
R21	7TME0112024	SCREW-TENSIONER MOUNTING	1
R22	7TME0502035	WASHER-TENSIONER MOUNTING	1
R26	7TSZEP17CPS	PIVOT-PEDAL ARM	2
R27	7TS11317001	WHEEL-PEDAL ARM	4
R28	7TME0502026	WASHER-PEDAL ARM WHEEL	4
R29	7TME0112074	SCREW-PEDAL ARM WASHER	4
S02	7TME0202012	NUT-BRAKE AXLE NUT	2
S03	7TMJ1245001	BRACKET-BRAKE BELT ADJUSTER	2
S04	7TME0204010	NYLON NUT-BRAKE BELT ADJUSTER	2
S05	7TME0110015	BOLT-BRAKE BELT ADJUSTER	2
U08	7TME0110009	BOLT-PRIMARY BELT ADJUSTER	2
U09	7TME0102010	SCREW-PRIMARY BELT ADJUSTER	1
U10	7TME0204009	NYLON NUT-PRIMARY BELT ADJUSTER	1
U11	7TME0502098	WASHER-PRIMARY BELT ADJUSTER	1
	7TMG0102032	DECAL-REAR COVER(WHITE)	2
	7TME0606020	HARWARE KIT-ASSEMBLY	1



# TRUE TE 750 PARTS DIAGRAM (Cartridge Bearings)



True TE 750  
After Serial # 00-EL2253L (Cartridge Bearings)

# TE 750 AFTER SERIAL # 00-EL2253L

## CARTRIDGE BEARING TYPE

REF. #	PART #	DESCRIPTION	QTY
AC1	7TSP0302010	PEDESTAL	1
AE1	7TSZ03307001R	PEDAL ARM ASSY-RH	1
AE2	7TSZ03307001L	PEDAL ARM ASSY-LH	1
AG2	7TSZEP07HDB-R	HANDLEBAR ASSY-RH	1
AG3	7TSZEP07HDB-L	HANDLEBAR ASSY-LH	1
AJ1	7TSZEP07FST	STABILIZER ASSY-FRONT	1
AN1	7TSZM0307002	CONTROL PANEL	1
AS1	7TMZD0208007	BRAKE ASSY	1
AS1	7TMD0208016B	BRAKE ASSY-AFTER SERIAL # 02-EA-1102K	1
AT1	7TSZW0306007	CRANK ARM ASSY	2
AU1	7TSM0325001	BELT TENSIONER ASSY-PRIMARY	1
B07	7TME0102021	SCREW-FRAME SUPPORT	6
B15	7TMB0301002	LEVELER LOCK NUT-REAR	4
B16	7TMB0302002	LEVELER-REAR	4
B18	7TMJ1390001	COVER LOWER SUPPORT-REAR	1
B19	7TMJ1390004	COVER UPPER SUPPORT-REAR	1
C14	7TME0112029	SCREW-HANDLEBAR MOUNTING	6
C15	7TME0104165	BOLT-PEDESTAL MOUNTING	4
C16	7TME0502019	WASHER-PEDESTAL MOUNTING	4
C17	7TME0501007	SPRING WASHER-PEDESTAL MOUNTING	4
E04	7TMB0206002C	PEDAL PLATE (PLASTIC)	2
E05	7TMB0609025	END CAP-PEDAL ARM	2
E07	7TSZEP25RAL	PEDAL ARM TRACK	2
E08	7TMB0674006	RUBBER PAD-PEDAL ARM TRACK	2
E10	7TME0112024	SCREW-TRACK MOUNTING	8
E12	7TME0102027	SCREW-PEDAL PLATE	8
E15	7TMB0304011	PEDAL PLATE COVER (RUBBER)	2
E18	7TME0502027	FLAT WASHER-TRACK MOUNTING	8
E19	7TME0501007	SPRING WASHER-TRACK MOUNTING	8
G04	7TMB06A7001	BRACKET-PULSE SENSOR	2
G05	7TME0102069	SCREW-PULSE BRACKET	4
G06	7TMJ1278001	SENSOR PLATE-PULSE	2
G07	7TME0201028	NUT-PULSE BRACKET	4
J02	7TMB0304006	LEVELER-FRONT	2
J04	7TME0112024	SCREW-FRONT STABILIZER	2
J06	7TMB0609035	END CAP-FT STABILIZER	2
J07	7TMJ3344001	RETAINER-RAIL COVER	2
P01	7TMC0501027	CABLE-DISPLAY	1
P02	7TMC0516005	CABLE-HRC PEDESTAL END	2
P03	7TMC0535004	CABLE-BRAKE (LOWER BOARD END)	1
P05	7TMC0539003	CABLE-HRC HANDLEBAR END	2
P06	7TMC0535005	CABLE-BRAKE (BRAKE END)	1
P07	7TME0204003	NYLON NUT-RESISTOR MOUNTING	4
P08	7TME0102027	SCREW-RESISTOR MOUNT	7
P09	7TME0502082	WASHER-RESISTOR MOUNT	4
P11	7TMC0203004	CONTROL BOARD	1
P12	7TMC0736002	RESISTOR	1

P17	7TMB06B8001	MOUNT-CONTROL BOARD	1
P18	7TMJ1393003	BRACKET-RESISTOR	1
P20	7TME0107037	SCREW-RESISTOR MOUNT	11
Q01L	7TMB020202A	SIDE COVER-LEFT FRONT	1
Q01R	7TMB020202R	SIDE COVER-RIGHT FRONT	1
Q02	7TMB0601005	BOTTLE HOLDER	1
Q03	7TMB0222003	COVER-REAR	1
Q06	7TMB0246001	COVER-LEFT RAIL	1
Q06	7TMB0246002	COVER-RIGHT RAIL	1
Q08	7TME0102053	SCREW-REAR COVER	10
Q09	7TME0107030	SCREW-SIDE COVERS	12
Q10	7TME0107013	SCREW-REAR COVER	2
Q11	7TME0701001	C CLAMP-REAR COVER	2
Q14	7TMB0627006B	COVER-CENTER FRAME MEMBER	1
R01	7TSM0330001	SHAFT ASSY-PEDAL CRANK	1
R02	7TSM0330002	SHAFT ASSY-SECONDARY DRIVE	1
R05	7TMZD0112013	POLY V WHEEL-SMALL	1
R09	7TMD0604001	POLY V BELT-PRIMARY DRIVE	1
R10	7TMD0601014	POLY V BELT-SECONDARY DRIVE	1
R16	7TME0208008	NUT-CRANK ARM	2
R21	7TME0112024	SCREW-TENSIONER MOUNTING	1
R22	7TME0502035	WASHER-TENSIONER MOUNTING	1
R26	7TSZEP17CPS	PIVOT-PEDAL ARM	2
R27	7TS11317001	WHEEL-PEDAL ARM	4
R28	7TME0502026	WASHER-PEDAL ARM WHEEL	4
R29	7TME0112074	SCREW-PEDAL ARM WASHER	4
S02	7TME0202012	NUT-BRAKE AXLE NUT	2
S03	7TMJ1245001	BRACKET-BRAKE BELT ADJUSTER	2
S04	7TME0204010	NYLON NUT-BRAKE BELT ADJUSTER	2
S05	7TME0110015	BOLT-BRAKE BELT ADJUSTER	2
U08	7TME0110009	BOLT-PRIMARY BELT ADJUSTER	2
U09	7TME0102010	SCREW-PRIMARY BELT ADJUSTER	1
U10	7TME0204009	NYLON NUT-PRIMARY BELT ADJUSTER	1
U11	7TME0502098	WASHER-PRIMARY BELT ADJUSTER	1
	7TMG0102032	DECAL-REAR COVER(WHITE)	2
	7TME0606020	HARWARE KIT-ASSEMBLY	1



# True Fitness

## Removal & Replacement

❖ **500R**

❖ **500U**

❖ **600U**

❖ **600R**

# **Removal and Replacement**

## **600 Series Elliptical**

Remove Crank	Page 37
Remove Belt Wheel	Page 38
Remove Brake	Page 40

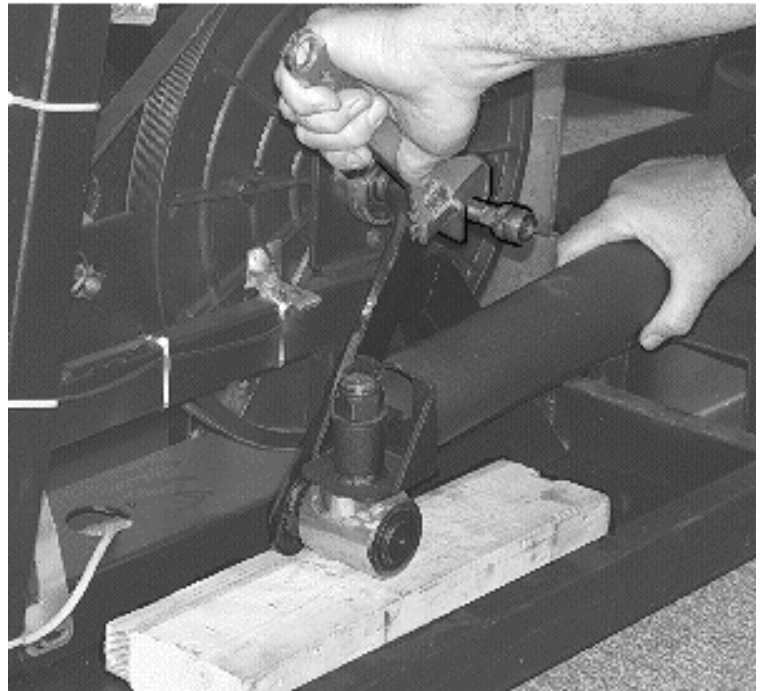
## **750E & 750EA Series Elliptical**

Remove Belt & Tensioner Assembly	Page 43
Remove Small Poly-V Pulley	Page 44
Remove Crank & .235 Diameter Poly-V Pulley	Page 46
Remove Hub Assembly	Page 47

**Tools Required:**  
Crank Puller  
Crescent Wrench  
Block of wood

**Step 1.**

Place block of wood under moving Arm assembly to prevent counter-clockwise rotation. Note position of block of wood to the left of the tray.



**Step 1.** Wood Block Placement.

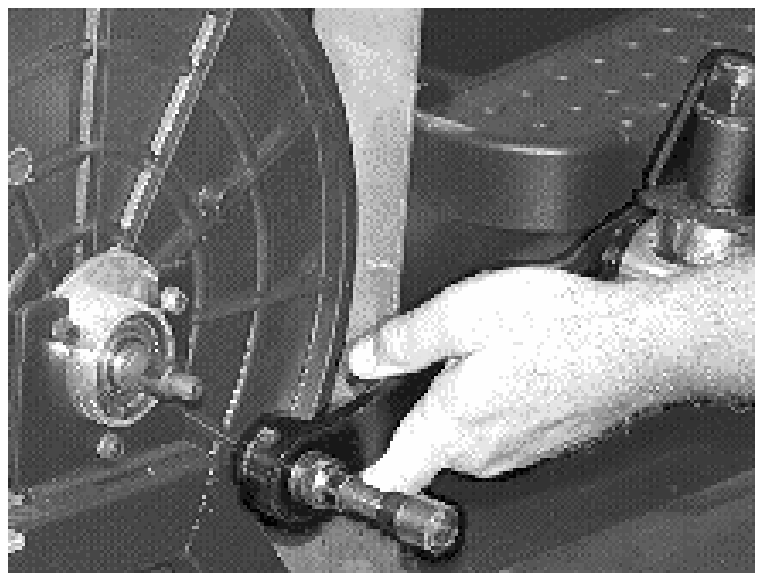
**Step 2.** Axle Nut Removal.

**Step 2.**

Place 15mm socket end of crank Puller over axle nut. Loosen the axle Nut by turning the crank puller counter-clockwise with a crescent wrench.

**Step 3.**

Remove crank assembly from hub.



**Step 3.** Remove Crank Assembly from Hub.

## **Removal & Replacement**

### **Remove Belt Wheel**

**600**

#### **Tools Required:**

15mm Socket and Ratchet  
11mm Box End Wrench  
5mm Hex Wrench  
Phillips Screw Driver

#### **Step 1.**

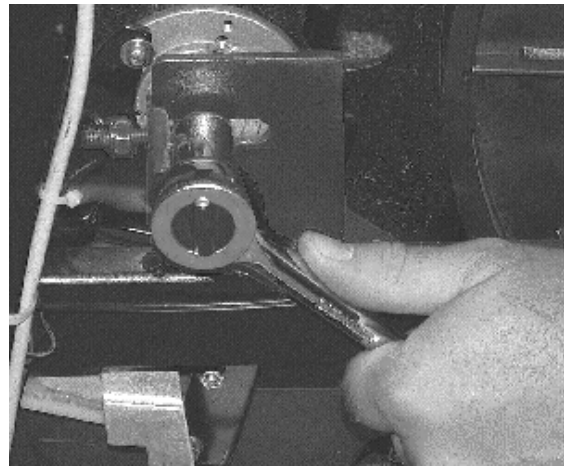
Loosen belt-tensioning nuts on bolts  
Attached to brake axle on both sides.



**Step 1.** Loosen Belt Tensioning Nuts.

#### **Step 2.**

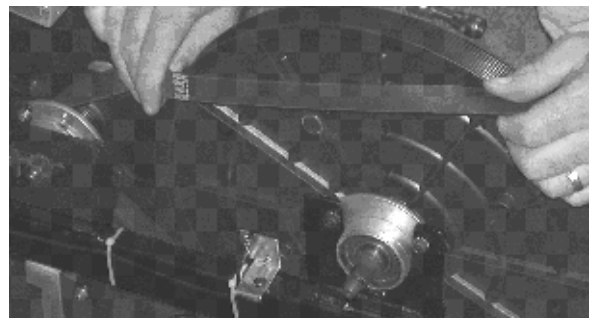
Loosen and remove axle nuts on  
Brake, both sides.



**Step 2.** Remove Axle Nuts.

#### **Step 3.**

Push belt over edge and off of wheel.

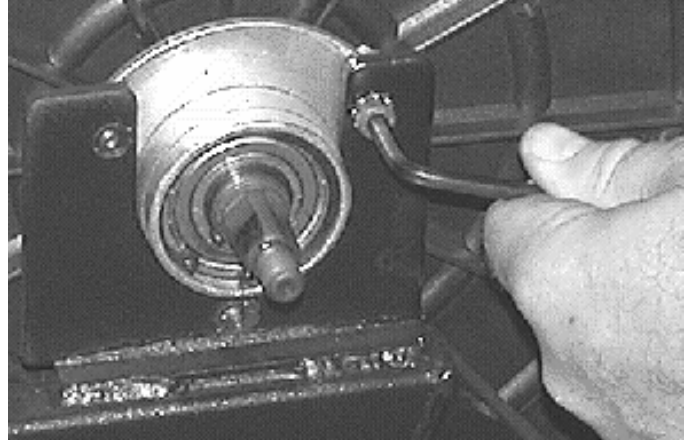


**Step 3.** Remove Belt from Wheel.



**Step 4.**

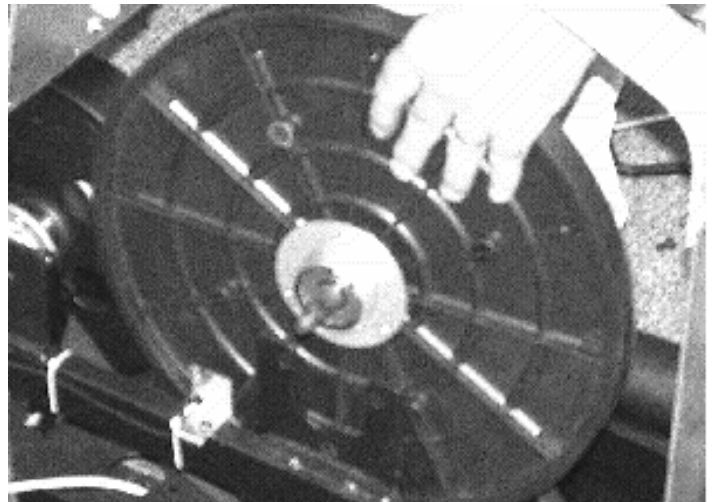
Remove 5mm hex screws from Bearing fixtures on both sides of belt Wheel axel



**Step 4.** Remove screws from Bearing Fixtures.

**Step 5.**

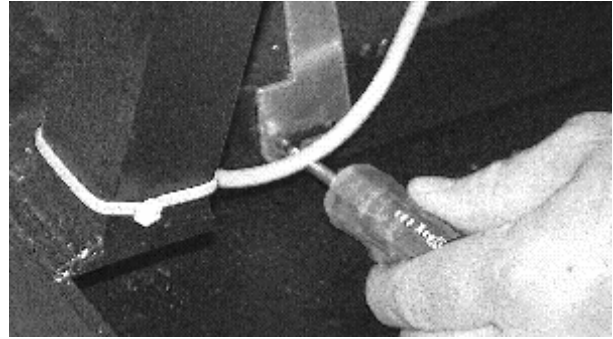
Lift belt wheel assembly from bearing Fixtures.



**Step 5.** Lift belt wheel assembly from bearing Fixtures.

**Remove Brake**

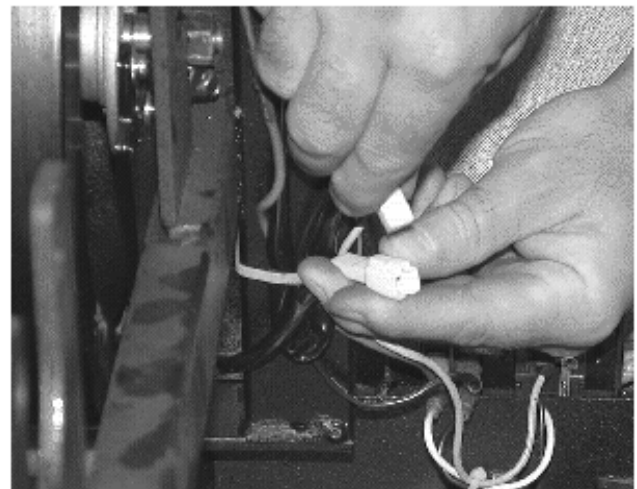
**Tools Required:**  
Phillips Screw Driver



**Step 1.** Brake Bracket Removal.

**Step 1.**

Remove screw holding the magnet Brake bracket located under the rear Brake with Phillips head screw driver.



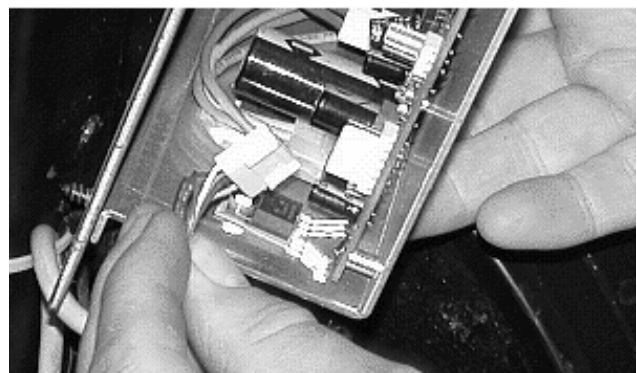
**Step 2.** Disconnect Electrical Terminal at Brake.

**Step 2.**

Disconnect electrical terminal at Brake.

**Step 3.**

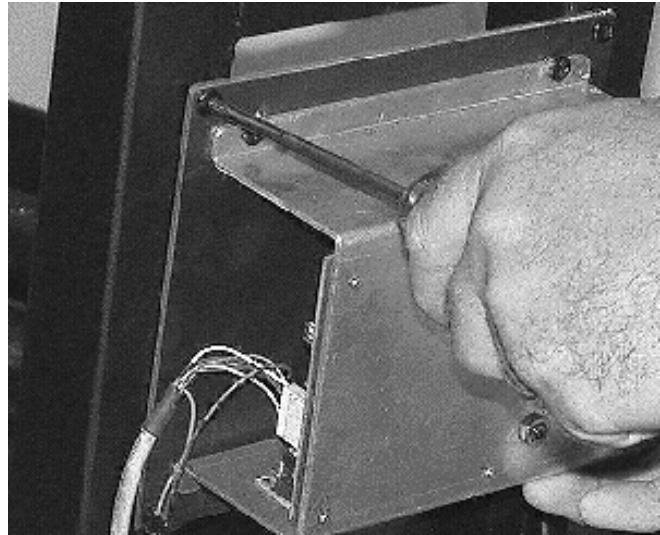
Disconnect electrical terminal from The console set at the control box Located above the brake.



**Step 3.** Disconnect Cable from Control Box.

**Step 4.**

Remove Phillips head screws  
Holding control box above the brake  
To the frame. Remove control box..



**Step 4.** Control Box Removal.

**Step 5.**

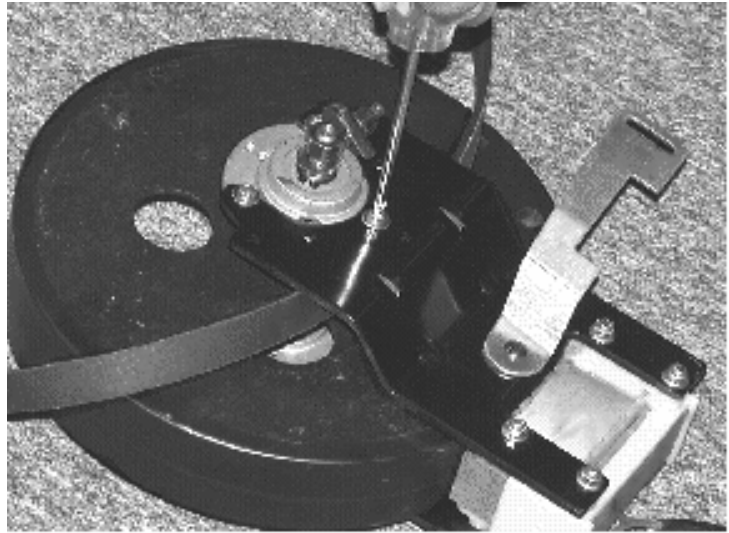
Pull backwards on the brake and  
Magnet assembly to free it from  
Slotted axle flanges. Lift brake  
Out.



**Step 5.** Lift Brake & Magnet Assembly Out.

**Step 6.**

Remove Phillips head screws  
From brackets on both sides of  
Brake.



**Step 6.** Remove Screws from Bracket.

**Step 7.**

Remove brackets to free belt.



**Step 7.** Remove Brake Brackets & Belt.

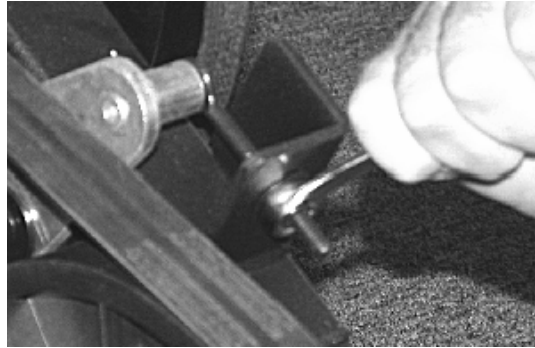
## Removal & Replacement Remove Belt & Tensioner Assembly

**750E & 750EA**

**Tools Required:**  
11mm Box Wrench  
5mm Hex Wrench

### **Step 1.**

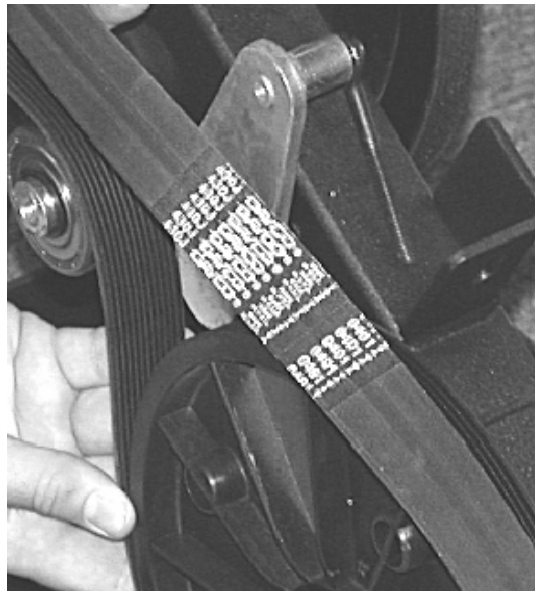
Use 11mm box wrench to remove Nut and washer from belt tensioning screw.



**Step 1.** Remove Nut.

### **Step 2.**

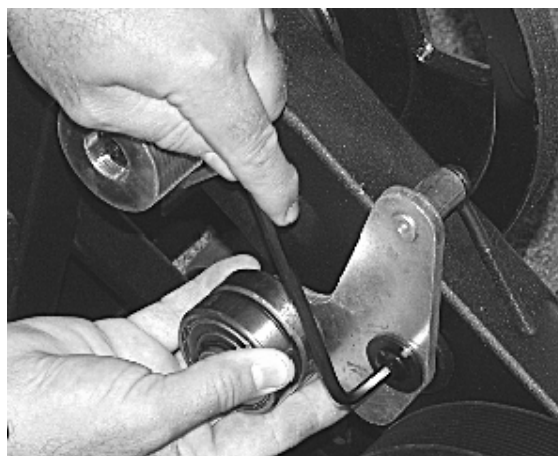
Remove belt from belt tensioner Assembly and wheels.



**Step 2.** Remove Belt.

### **Step 3.**

Use 5mm hex wrench to remove Button head screw and washer Attaching belt tensioner assembly to Frame..



**Step 3.** Remove Tensioner.

## **Removal & Replacement**

### **Remove Small Poly-V Pulley**

**750E & 750EA**

#### **Tools Required:**

3mm Hex Wrench  
4mm Hex Wrench  
Bicycle Crank Puller  
Hammer Handle  
Adjustable Wrench

#### **Step 1.**

Use 3mm hex wrench to loosen set screw in pulley.



**Step 1.** Loosen Set Screw.

#### **Step 2.**

Use Hammer Handle to prevent rotation of large wheel when removing pulley.

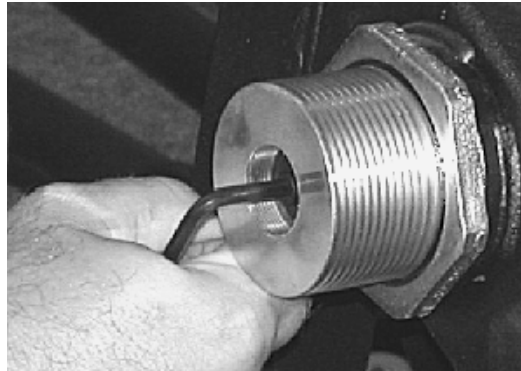


**Step 2.** Prevent Rotation of Fly Wheel.

**Remove Small Poly-V Pulley (Continued)**

**Step 3.**

Use 4mm hex wrench to remove  
Screw and washer holding the  
Small Poly- V wheel on.

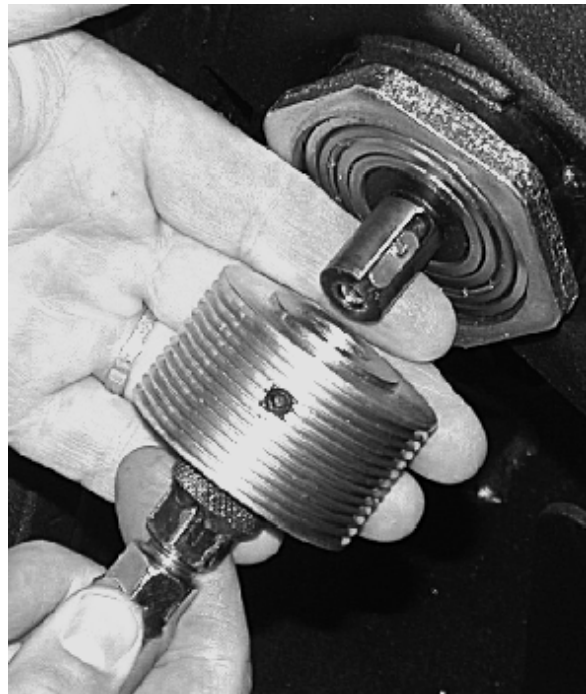


**Step 3.** Remove Center Screw.

**Step 4.**

Remove Poly-V wheel using bicycle  
Crank puller and adjustable wrench

Remove key from shaft.



**Step 4.** Use Puller to Remove.

**Remove Crank & .235 Diameter Poly-V Pulley**

**Tools Required:**

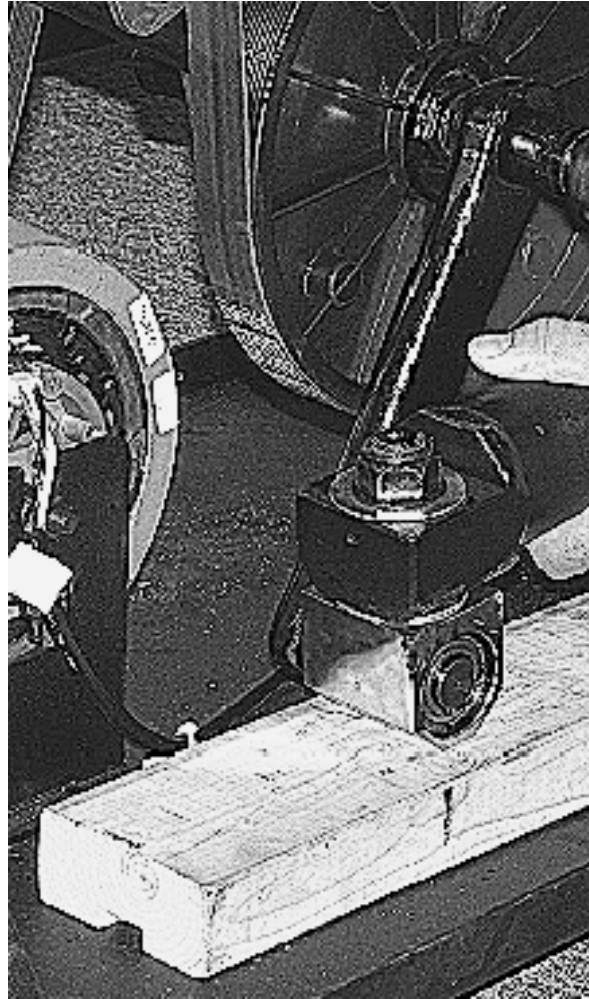
Block of Wood to Block Crank  
21mm Socket & Ratchet  
Metric Cotter-less Crank Puller  
10mm Hex Wrench

**Step 1.**

Place block of wood under crank at  
Left to prevent counter-clockwise  
Rotation.

**Step 2.**

Remove center nut using 21mm  
socket & ratchet.



**Step 1.** Block to Prevent Rotation.

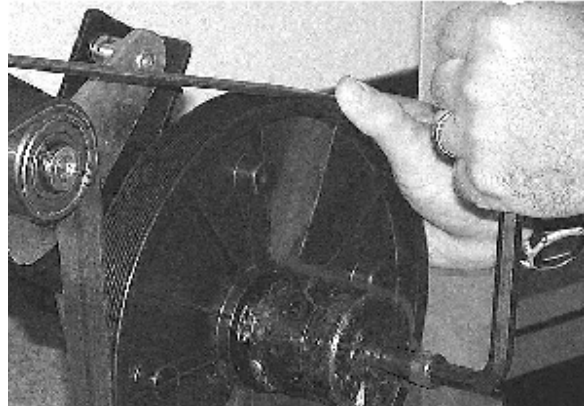
**Step 2.** Prevent Rotation of Fly Wheel.



**Remove Crank & .235 Diameter Poly-V Pulley (Continued)**

**Step 3.**

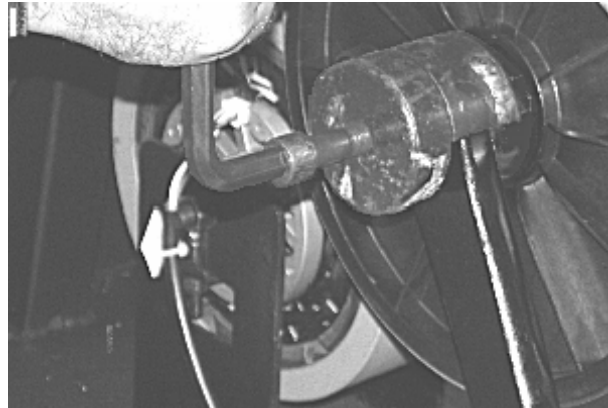
Move block of wood to right of Crank to prevent clockwise rotation.



**Step 3.** Block to Prevent Rotation.

**Step 4.**

Place metric cotter-less crank puller Over end of crank shaft.  
Turn puller clock-wise with 10mm Hex wrench to remove crank.



**Step 4.** Pull Crank.

**Step 5.**

Pull crank arm off of crank shaft  
And set moving arm aside.



**Step 5.** Move Arm Aside.

## Removal & Replacement **Remove Hub Assemblies**

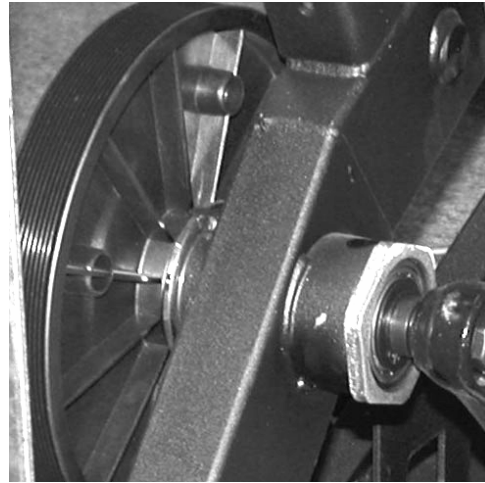
**750E & 750EA**

### **Tools Required:**

Elliptical Wrench (pn: 90361501)  
Channel Lock Pliers  
Flat Blade Screwdriver

### **Step 1.**

Use elliptical wrench or pliers to  
Remove large hex nuts holding hub  
Assembly in place.



**Step 1.** Remove Large Hex Nut.

### **Step 2.**

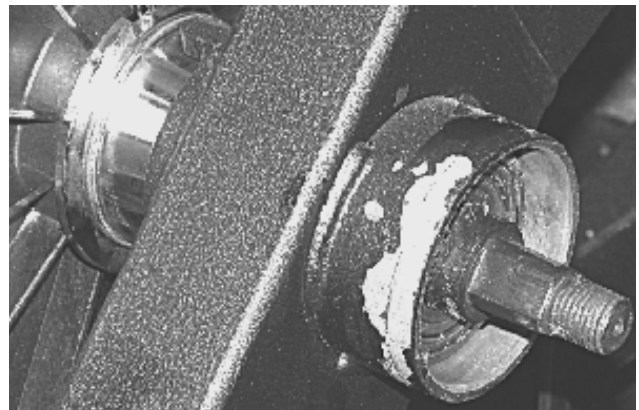
Remove retainer clip with flat-blade  
Screwdriver  
To remove wheel from frame, slip  
Shaft through bearing.



**Step 2.** Remove Clip.

### **Step 3.**

Pull wheel and hub assembly out as  
A unit. Bearings and axle cannot be  
Field serviced.



**Step 3.** Pull Assembly Out.

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