TREADMILL SERVICE MANUAL

T560/T561

Customer Support Services

SERVICE MANUAL

HS Consumer Treadmills
INTRODUCTION

HOW TO USE SERVICE MANUAL AND CONTACT CUSTOMER SUPPORT SERVICES

This service manual is applicable to Treadmill T560,T561. **Note**: Information represents typical configuration and may differ slightly from actual equipment. The Service Manual provides recommendations of safe and efficient approaches to various situations. This manual is separated into six sections.

Refer to **TABLE OF CONTENTS** for section topics.

When an operation problem occurs, refer to troubleshooting guide and diagnostic mode to isolate cause. When applicable, guides are listed by problem symptom followed with suggestions of probable cause(s).

Once source of problem is identified, consult" How To…" guides for recommended repair procedures. "How To…" sub-sections are organized by replacement part or assembly name. For convenience, sub-section lists recommended "Tools Required" to complete specific function. Refer to **PARTS IDENTIFICATION** to identify proper name and number of part to order for repair of equipment.

A reproducible FAX order claim form is given in COMMUNICATING BY TELEFACSIMILE for convenient ordering of service parts.

To order, contact HS Customer Support Services.
Via FAX – 24 hrs/day, 7days/week.
Via telephone – Monday to Friday from 8:30 AM to 5:30 PM (GMT+8)
Via post – At address cited.

To speed HS response to your needs, please provide the following information.
1. Model number
2. Serial number
3. Symptom of problem
4. Part name and number to order (if known)

Before installing parts, review "How To…" and follow step by step procedures recommended to install parts safely and efficiently. If you have questions or comments please telephone, FAX or write us. We are:

Healthstream Taiwan Inc. – CUSTOMER SUPPORT SERVICES
16-3, Zichiang 1st Road
Jhongli, Taoyuan 32063 Taiwan R.O.C.

HS Consumer Treadmill
TABLE OF CONTENTS

SECTION V PARTS IDENTIFICATION

SECTION VI MISCELLANEOUS INFORMATION

SECTION I

TROUBLESHOOTING GUIDE

(1) **MCB**

Error Code	Error category	When it happens.	Follow up and send the information to Healthstream R&D center
	Safety key	Check Safety key	If it happens frequently. Check safety key cable and switch. - Open the plastic and check. Next check the signal cable between motor and console. Change the console.
Er 01	Speed sensor	Speed sensor is broken. Main power relay is broken(in the motor controller). Motor is broken or motor wire is badly connected. PWM circuit that is in console is broken. Main cable is damaged.	Turn off and on the power. Push Start key to test the treadmill. Warning : Do not step on the treadmill, it is very dangerous. 1) Check if motor is running for short time. if NO. Check motor wire connection, motor brush connection, motor itself. Motor controller circuit or signal cable was broken. PWM circuit that is in console was broken. if YES Speed sensor wire connection , or speed sensor was broken. Speed sensor circuit that is in motor controller was broken. Signal cable or console was broken.

Error Code	Error category	When it happens.	Follow up and send the information to Healthstream R&D center
Er 02	Over speed	When treadmill runs faster than target speed. - Check Power circuit. When User kicks the treadmill belt faster intentionally. Frequency is very low. It usually happens during workout(14Km/h to 16Km/H).	Turn off and on the power. Start the treadmill and check if there are Error 41 or others. Warning : Do not step on the treadmill, it is very dangerous.
Er 06	Memory	EEPROM of console error, eeprom problem or circuit problem. Frequency is very low.	Turn off and on again. If it happens continually , you have to change the console.
Er 08	Angle switch	Angle switch broken. When the treadmill is folded.	When Err 08 on the console, even if treadmill is not folded. Check the cable connection first and then check the angle switch(motor control board).

Error Code	Error category	When it happens.	Follow up and send the information to Healthstream R&D center
Er 15	Under speed	When treadmill runs slower than target speed. Motor is damaged. AC input is lower than normal value(lower than 210VAC), with heavy user. Deck and belt condition is not good.(Check silicone).	Turn off and on the power. Push Start key to test the treadmill. Warning : Do not step on the treadmill, it is very dangerous. During testing, if motor makes electric howling noise. Check the motor condition and motor wires are tightly connected. Check the condition of deck and belt, if deck and belt are damaged you have to change the deck and belt , and lubricate it with silicone.
Er 05 Er 51 Er 52 Er 53	Elevation	Check incline sensor or motor. Err 51,Err 52,Err 53 happen during self test or calibration.	Turn off and on the power. Calibrate the elevation motor again and check the console value. Push and hole 12%+ 6% keys together for 2seconds to calibrate the motor. Then treadmill goes up and goes down to the bottom, please check the value on the monitor. It should be more than 190 at the top, and it should be less than 40 at the bottom. Check the error message. Er 51, Er 52, Er 53 or no message. Check the elevation motor runs or not, when you test it ? Warning : Do not step on the treadmill, it is very dangerous. If no error message, Please send the value that is displayed of the LCD during calibration to Healthstream R&D center. You have to do calibration again, if you want to use the elevation function.

Error Code	Error category	When it happens.	Follow up and send the information to Healthstream R&D center
Er 40 Er 41	Over acceleration	Treadmill accelerates too fast than normal. It happens when the speed is less than 8 Km/H. Fatal error. Stop using treadmill. Power circuit could be broken.	Turn off and on the power. Start the treadmill and check the Error message again. Check the motor runs or not , when you test it ? Warning : Do not step on the treadmill, it is very dangerous.
	Over acceleration	Same as Er 40, but it happens at the beginning of workout.(During Start)	

(2) TROUBLE SHOOTING GUIDE

Problem	Potential cause	Corrections
Treadmill will not start	1. Not plugged in 2. Safety tether key not inserted 3. House circuit breaker tripped 4. Treadmill circuit breaker tripped 5. Switch on OFF	1. Plug into grounded outlet. 2. Insert safety tether key into console. 3. Reset or replace fuse. 4. Lubricate treadmill deck and reset. 5. Turn switch to ON
Running belt slips	1. Running belt not tight enough 2. Drive belt not tight enough	1. Adjust running belt tension 2. Adjust drive belt tension

SECTION II

OPERATING CONSOLE

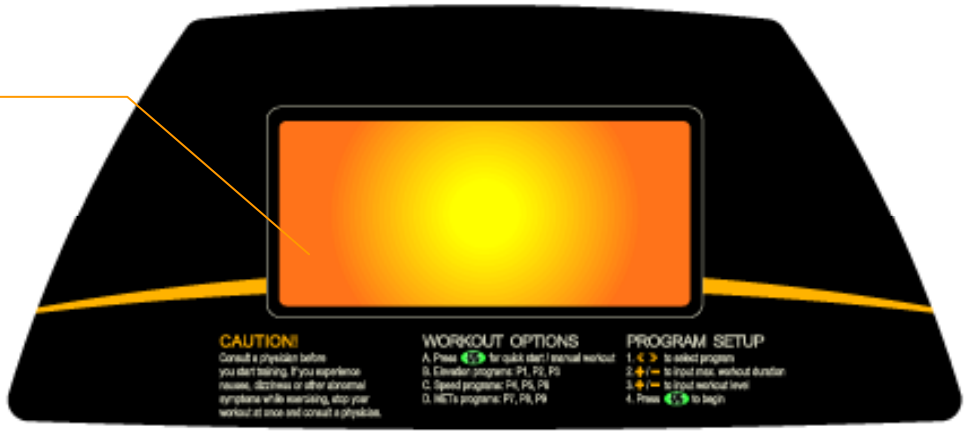
DISPLAY VALUES

Display	Resolution	Range	Increment
PULSE	XXX	40-240	1
ELEVATION (%)	XX	0-12	1%
DISTANCE (Miles)	XX.X	0.1 – 99.0	0.1
DISTANCE (Km)	XX.X	0.1 – 99.0	0.1
SPEED (Miles/H)	XX.X	0.5 – 10.0	0.1
SPEED (Km/H)	XX.X	1.0 – 16.0	0.1
TIME	XX:XX	00:01 – 99:00	00.01
CALORIES	XXX	1-999	1

FUNCTION KEYS

T560 overlay

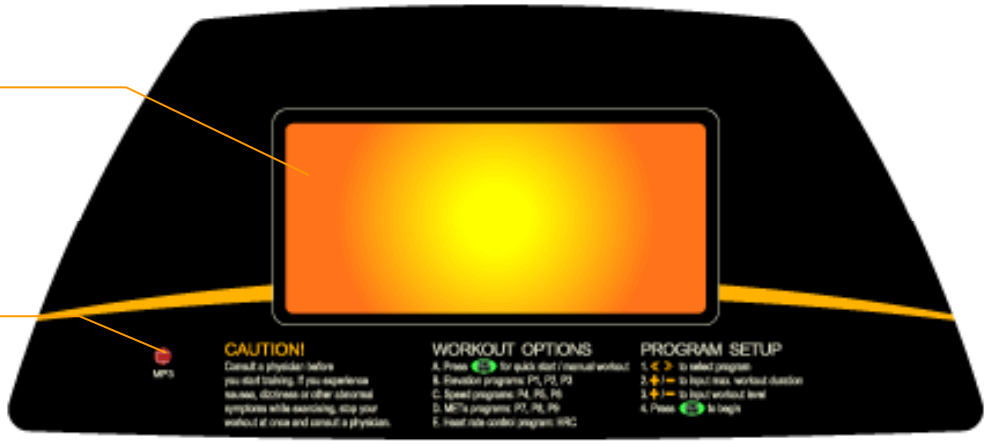
Big Blue back-lit LCD display windows for real time feed back of all workout stats

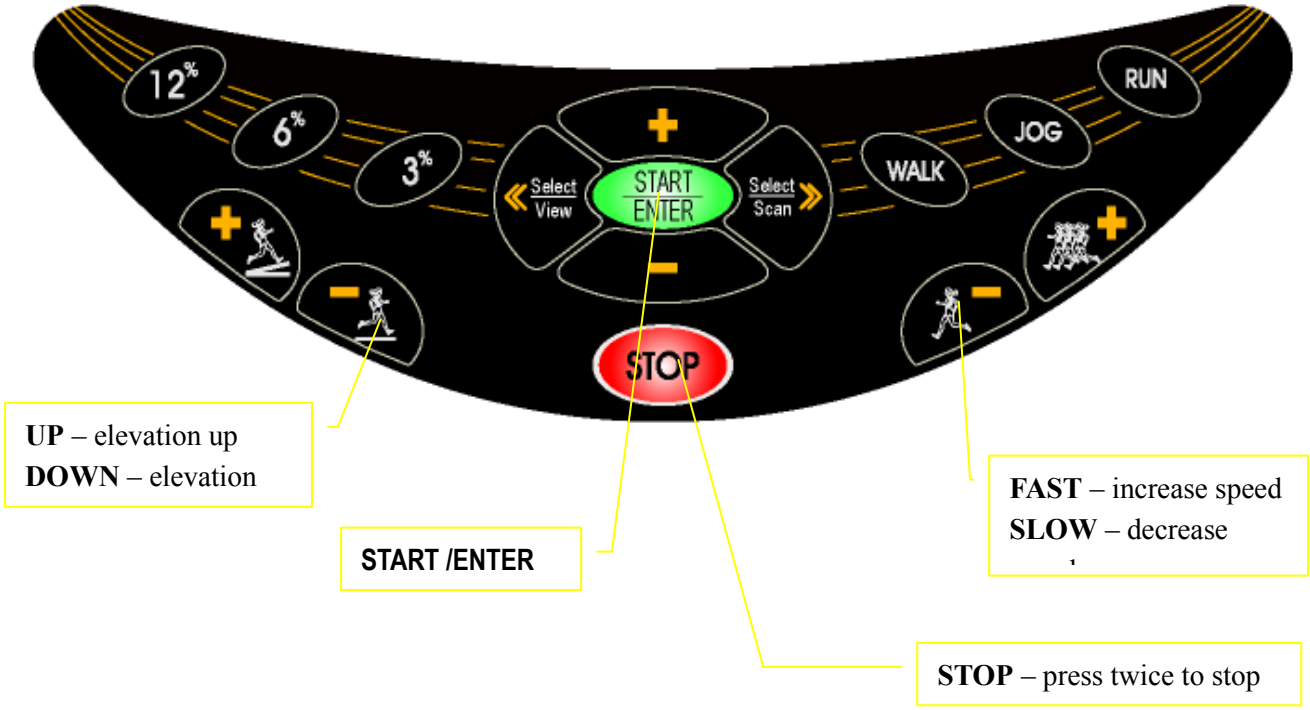


T561 overlay

Big Blue back-lit LCD display windows for real time feed back of all workout stats

Built-in MP3/CDP amplifier





SPEED ADJUSTMENTS

There are two ways to adjust speed during workout. FAST and SLOW will adjust speed by increments of 0.1Km/H. Or you may hold these buttons to ramp up or down. If the speed adjustment increment is large, it is easier to use the direct speed buttons, which function as direct speed control buttons during the workout. There are three direct speed buttons, WALK(4 km/H),JOG(8Km/H), RUN(12Km/H)

ELEVATION ADJUSTMENTS

For safety reasons, elevation is designed to be manually adjusted only. At no time will treadmill automatically adjust elevation except during one of the following three programs: elevation program, METS program, HRC control proram. Elevation may be adjusted even while the running belt is not moving. However, during the program setup mode, elevation will not be adjustable. There are two ways to adjust elevation during workout: UP and DOWN on the console, direct elevation buttons on the console.

PULSE FUNCTION (ONLY FOR T561)

This treadmill features wireless heart rate monitoring, the most advanced technology to date for accurate read out of your heartbeat.

To use the wireless pulse monitoring system, you must wear the heart rate transmitter chest strap so that the contact surface is next to your skin directly under your heart to pick up the pulse signals.

Please note that some fibers used in clothes (e.g. polyester, polyamide) create static electricity which may prevent reliable heart rate measurement. Also note that mobile phone, television and other electrical appliances form an electro-magnetic field around them, which may also cause problems in heart rate measurement. Specially, increasing the volume of your MP3/CDP that is plugged in treadmill console, it can make huge interference. Using HRC program, we recommend to use volume to medium level. Using chest strap to measure the heartbeat, we also recommend to use volume to medium level.

PAUSE FUNCTION

When STOP button is pressed during workout, program is suspended. LCD will be in "PAUSE". After the running belt has come to a complete stop, LCD display window will count down from 3:00. During pause mode, only START and STOP buttons will function.

If START is pressed within three minutes during the pause mode, treadmill will bring the running belt movement back to the speed at which the treadmill was paused. Workout values will resume counting and continue where it was left off.

If STOP is pressed during the pause mode, program will end. After three minutes if no button is pressed, treadmill will automatically end the workout program.

END OF WORKOUT STATS

When you have completed your workout or if you have ended your workout, LCD window will display twice the following stats: total time, total distance, total calories. Then the display will go to idle mode, ready for the next workout setup. If you wish to skip the workout stats report, simply press the STOP button, which will skip display to the idle mode.

UNIT CONVERSION

To change from metric to English or English to metric, you must be in the idle mode. Follow the steps below to make the unit conversion.

1. Simultaneously press both the STOP and SLOW together.
2. LCD window will display U-16(Metric) or U-10(English).
3. You can select U-16 or U-10 using START/ENTER button.
4. Push STOP button to confirm.

Once you have begun workout, the speed unit will have changed the measurement unit accordingly.

PROGRAM / RECOVERY

During the workout – this button will start the recovery function if pulse signal is present.

SCAN

This button will allow user to view calories and pulse display values interchangeably.

COOL DOWN

Never stop exercising suddenly. A cool down period of about 5 minutes will allow your heart to readjust to the decreased demand. Use a low speed setting during the cool down to gradually lower your heart rate.

PRESET PROGRAMS

QUICK START

Once the power is on and the safety tether key is secured in place, simply press the START button, and after three second count down treadmill will activate and maintain the running belt at 1Km/H.

START

This is the fastest way to begin exercising, and it bypassed the steps involved in selecting a specific workout program. Once the power is turned on and the safety key is secured in place, simply press the START/ENTER button . Treadmill will activate at 1.0 Km/H after 3 seconds. You may increase/decrease speed or elevation at any time during your workout. To end workout, simply press the STOP button to stop the treadmill. During manual start workout, time will count up. During other program workouts, time will count down.

1. Turn power on
2. Check safety key secured to treadmill and clip secured to user clothing
3. Press START/ENTER to begin workout

SPEED PROGRAMS

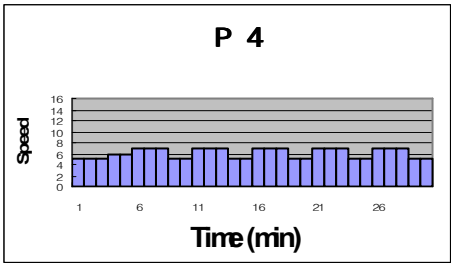
Once the power is turned on and the safety key is secured in place, you may press << >> to choose the pre-set speed programs, P4, P5 or P6. LCD window will prompt user to set up workout duration, and intensity level based on max speed value. Once you have made your selection, press START/ENTER key to activate the treadmill.

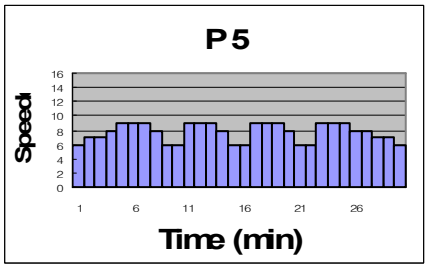
During workout, treadmill will automatically adjust speed according to pre-set program settings. User may still be able to adjust intensity level using +/- button if the preset is not appropriate. The entire remaining program will scale up or down accordingly. During workout, user may adjust speed and elevation level at will. To end workout, simply press the STOP button to stop the treadmill. During workout, time counts down from target workout time.

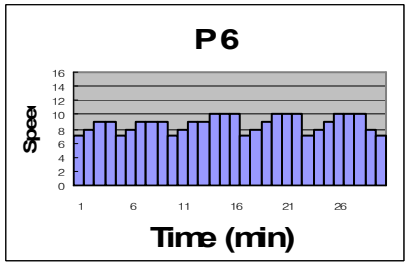
1. Turn power on.
2. Check safety key secured to treadmill and clip secured to user clothing.
3. Press << >> to select P4, P5 or P6 to set up the speed program.
4. Press **START/ENTER** to confirm.
5. Press + / - buttons to input workout duration.
6. Press **START/ENTER** to confirm.
7. Press + / - buttons to input max workout level(speed).
8. Press **START/ENTER** to confirm
9. Begin workout.

Speed Program Profile

Program	Description	Trainings Level			Trainings Time		
		Default	min	max	Default	min	max
P 4	Speed Interval	9,0 km/h (max.)	2,0 km/h (max.)	16,0 km/h (max.)	30 min	15 min	90 min
P 5	Speed Interval	9,0 km/h (max.)	3,0 km/h (max.)	16,0 km/h (max.)	30 min	15 min	90 min
P 6	Speed Interval	10,0 km/h (max.)	3,0 km/h (max.)	16,0 km/h (max.)	30 min	15 min	90 min







ELEVATION PROGRAMS

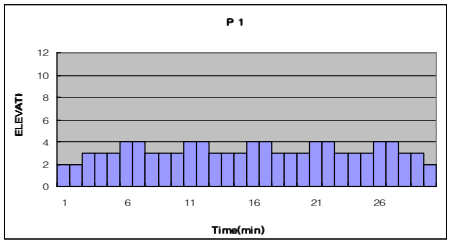
Once the power is turned on and the safety key is secured in place, you may press << >> to choose the pre-set elevation program, P1, P2 or P3. LCD window will prompt user to set up workout duration, and intensity level based on max elevation value. Once you have made your selection, press START/ENTER key to activate the treadmill.

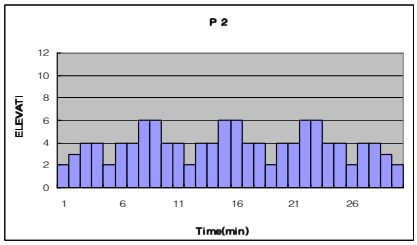
During workout, treadmill will automatically adjust elevation according to pre-set program setting. User may still be able to adjust intensity level using +/- button if the preset is not appropriate. Then the entire remaining program will scale up or down accordingly. During workout, user may adjust speed and elevation level at will. To end workout, simply press the STOP button to stop the treadmill. During workout, time counts down from target workout time.

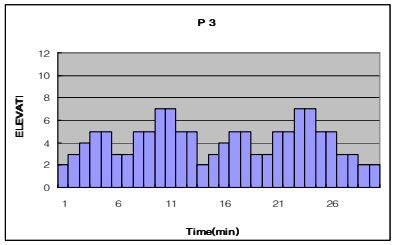
1. Turn power on.
2. Check safety key secured to treadmill and clip secured to user clothing.
3. Press << >> to select P1, P2 or P3 to set up the elevation program.
4. Press **START/ENTER** to confirm.
5. Press + / - buttons to input workout duration.
6. Press **START/ENTER** to confirm.
7. Press + / - buttons to input max workout level(elevation).
8. Press **START/ENTER** to confirm.
9. Begin Workout.

Elevation program profile

Program	Description	Trainings Level			Trainings Time		
		default	min	max	default	Min	max
P 1	Elevation Interval	4 % (max.)	2 % (max.)	12 % (max.)	30 min	15 min	90 min
P 2	Elevation Interval	6 % (max.)	4 % (max.)	12 % (max.)	30 min	15 min	90 min
P 3	Elevation Interval	7 % (max.)	5 % (max.)	12 % (max.)	30 min	15 min	90 min







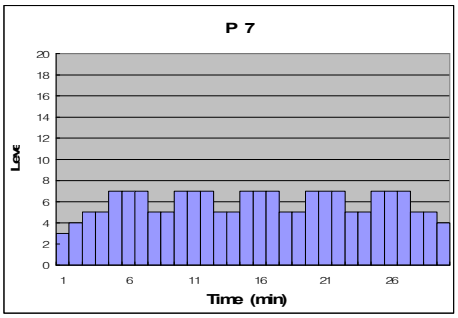
METs PROGRAM

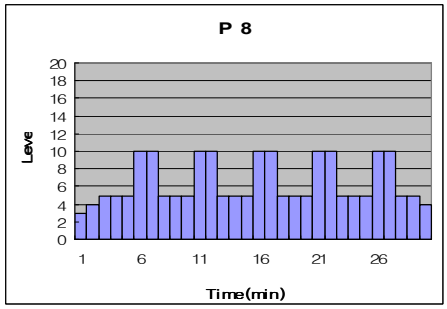
METs program is a motivational program designed to determine user's physical fitness level. METs is indirect indicator of your fitness level. User may still be able to adjust intensity level using +/- button if the preset is not appropriate. The entire remaining program will scale up or down accordingly. During workout, user may adjust speed and elevation level at will. The program will adjust METs level by both speed and elevation. Test your fitness level using METs program.

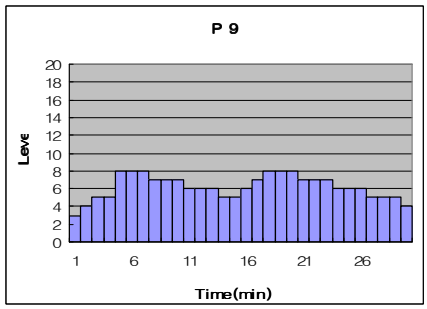
1. Turn power on
2. Check safety key secured to treadmill and clip secured to user clothing
3. Press << >> to select P7, P8 or P9 to set up the METs program.
4. Press **START/ENTER** to confirm
5. Press + / - buttons to input workout duration.
6. Press **START/ENTER** to confirm
7. Press + / - buttons to input max workout level(METs).
8. Press **START/ENTER** to confirm
9. Begin workout.

METs Program Profile

Program	Description	Trainings Level			Trainings Time		
		default	min	max	default	min	max
P 7	METS(Speed & Elevation) Interval	7 (max.)	5 (max.)	20 (max.)	30 min	15 min	90 min
P 8	METS(Speed & Elevation) Interval	10 (max.)	8 (max.)	20 (max.)	30 min	15 min	90 min
P 9	METS(Speed & Elevation) Interval	8 (max.)	6 (max.)	20 (max.)	30 min	15 min	90 min







METs Program Profiles			
Time	P7	P8	P9
	LEVEL	LEVEL	LEVEL
1	3	3	3
2	4	4	4
3	5	5	5
4	5	5	5
5	7	5	8
6	7	10	8
7	7	10	8
8	5	5	7
9	5	5	7
10	7	5	7
11	7	10	6
12	7	10	6
13	5	5	6
14	5	5	5
15	7	5	5
16	7	10	6
17	7	10	7
18	5	5	8
19	5	5	8
20	7	5	8
21	7	10	7
22	7	10	7
23	5	5	7
24	5	5	6
25	7	5	6
26	7	10	6
27	7	10	5
28	5	5	5
29	5	5	5
30	4	4	4

Level	Speed	Elevation	VO2max	METs
1	3.2	0	8.8	2.5
2	4.2	0	10.5	3.0
3	4.8	1	12.9	3.7
4	5.7	1	14.7	4.2
5	6.0	2	17.1	4.9
6	6.2	2	19.3	5.5
7	6.4	2	21.5	6.1
8	6.6	2	23.9	6.8
9	6.8	2	26.4	7.5
10	6.8	3	29.2	8.4
11	7.3	3	31.1	8.9
12	7.6	4	33.4	9.5
13	7.9	4	34.6	9.9
14	8.0	5	36.2	10.3
15	8.4	5	37.8	10.8
16	8.4	6	39.0	11.2
17	8.7	6	40.3	11.5
18	8.7	7	41.6	11.9
19	8.8	8	43.4	12.4
20	9.0	9	45.7	13.0

TARGET TRAINING PROGRAMS

Users have the option to customize workout based on setting training targets for time, distance and calories. Once the power is turned on and the safety key is secured in place, you may press PROGRAM button to choose one of the target program, P1 set training target based on time, P2 set training target based on distance and P3 set training target based on calories. Where user may customize, the default value (or the previous input value) will flash indicating that you may either confirm the value flashing or change the value. Once you have made your data input, press START to activate the treadmill.

1. Turn power on.
2. Check safety key secured to treadmill and clip secured to user clothing.
3. Press PROGRAM button to choose one of the target program (P1, P2, P3).
4. Press ENTER to confirm.
5. Use UP / DOWN or FAST / SLOW buttons to input target time, target distance or target calories.
6. Press ENTER to begin workout.

HEART RATE CONTROL PROGRAMS

Users have the option to customize their heart rate control programs based on their target heart rate value. Once the power is turned on and the safety key is secured in place, you may press << >> to select to select HRC program. LCD window will prompt user to set up workout step by step. Once you have made your selection, press START/ENTER button to activate treadmill.

Treadmill will automatically adjust both by elevation and speed to bring the user's heart rate to the targeted heart rate. During workout, users may still be able to adjust speed or elevation.

To use the heart rate control programs, user must wear wireless transmitter chest strap. Signals from contact heart rate sensors will not be used in heart rate control programs.

When you workout the HRC program, heartrate signal is very important. We recommend not to use MP3/CDP during workout. Or reduce the volume of MP3/CDP to medium level.

1. Turn power on
2. Check safety key secured to treadmill and clip secured to user clothing
3. Press << >> to select HRC program.
4. Press **ENTER/START** to confirm
5. Press + / - buttons to input workout duration.

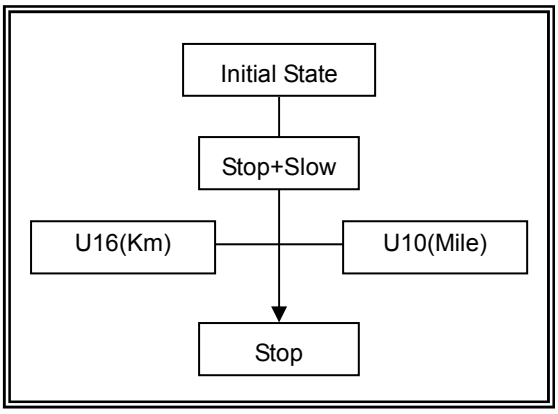
6. Press **ENTER/START** to confirm
7. Press + / - buttons to input your age
8. Press **ENTER/START** to confirm
9. Press + / - buttons to input target heart rate
10. Press **ENTER/START** to confirm
11. Begin workout

INSTRUCTION FOR TARGET HEART RATE CONTROL PROGRAMS

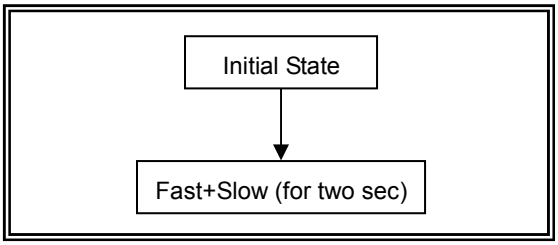
1. Turn power on.
2. Check safety key secured to treadmill and clip secured to user clothing.
3. Press PROGRAM button to select H-SI (HRC by speed and elevation adjustments).
4. Press ENTER to confirm.
5. Use UP / DOWN or FAST / SLOW buttons to input your age.
6. Press ENTER to confirm.
7. Use UP / DOWN or FAST / SLOW buttons to input workout time.
8. Press ENTER to confirm.
9. Use UP / DOWN or FAST / SLOW buttons to input target heart rate.
10. Press ENTER to begin workout.

SETUP AND DIAGNOSTIC MODE

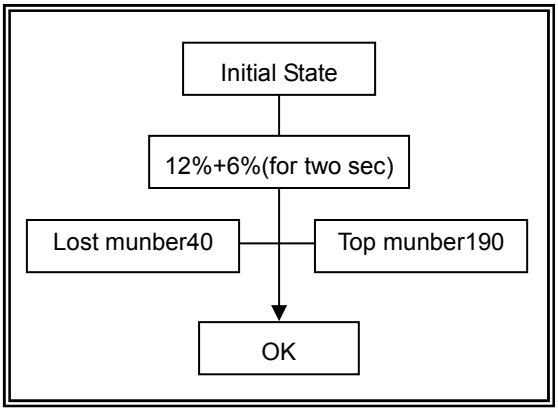
T56X CONSOLE **Remark: FAST = SPEED + / SLOW=SPEED -**



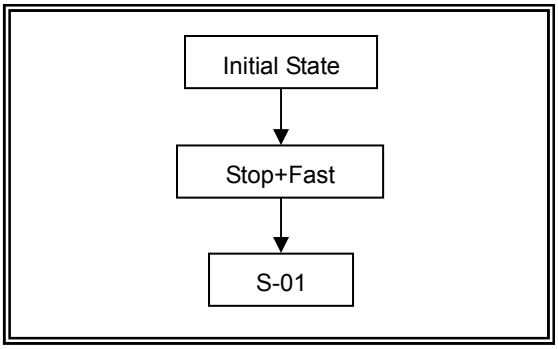
Clear Add lubrication  message



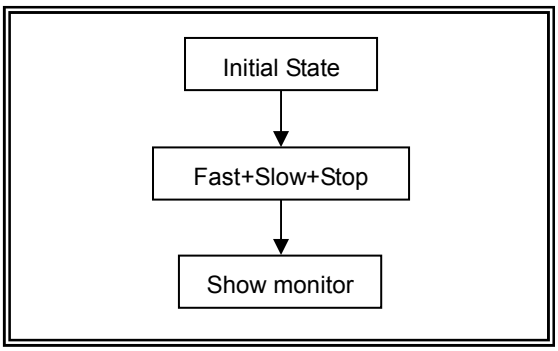
Incline calibration



Program version



Testing Program



SECTION III

HOW TO …
SERVICE AND REPAIR GUIDE

How To… Replace The Running Belt and Deck

Tools Required: Allen key set, Phillips screwdriver, tape measure, rubber hammer, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

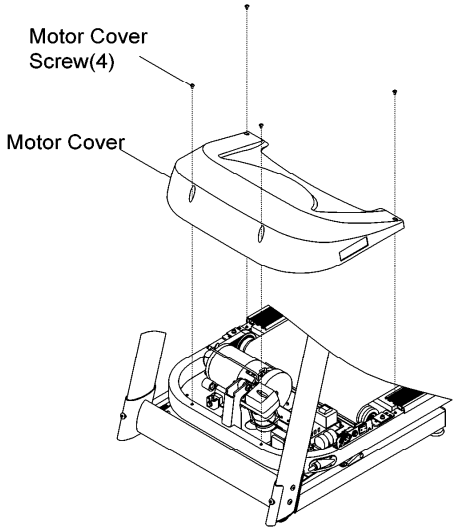
1 At the power switch, turn off the unit, and then unplug the power cord at the wall outlet.

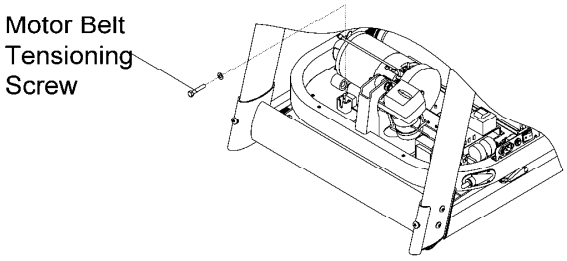
2 Remove the motor cover front screws(4), lift off the motor cover.

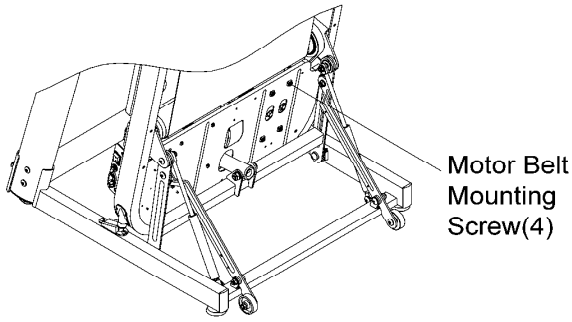
3 Loosen the motor belt tensioning screws(1). Fold the treadmill, loosen the four mounting screws(4) securing the motor to the bottom of the frame.
NOTE: to remove front roller easily, release motor belt via loosen motor belt tensioning screws(1) and the four mounting screws(4).

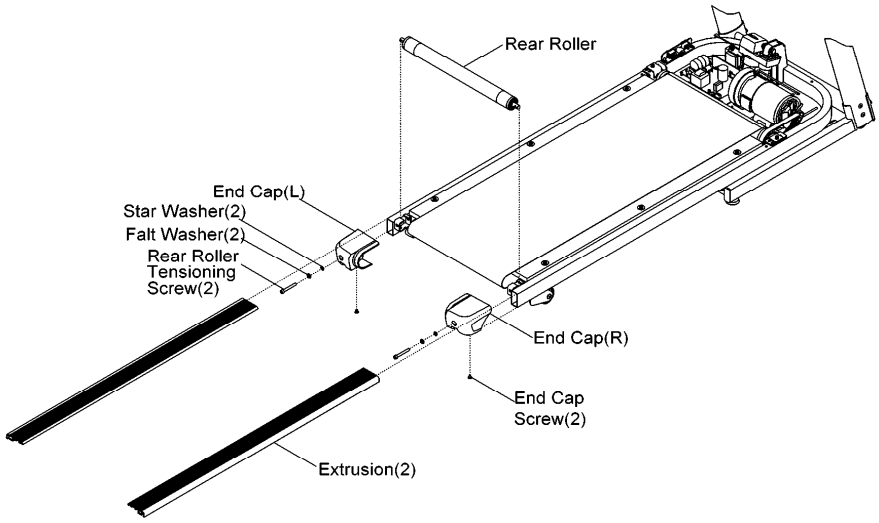
4 Remove the end caps by removing end cap screws(2)

5 Remove the gas shocks by removing gas shock nuts(6) , screws(2) ,long screw(2), flat washers(2) from each other.
CAUTION: for safety reasons, remove gas shocks to avoid injury when lifting off the deck. Without the weight of deck, gas shocks will spring up and create safety concern.









How To… Replace The Running Belt and Deck - Continued

Tools Required: Allen key set, Phillips screwdriver, tape measure, rubber hammer, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION – Continued

7 Unfold the treadmill. Remove the rear roller tensioning screws(2), flat washers(2). Slide each extrusion back.

8 Remove the rear roller.

9 Remove the flat washers(2), brackets(2) and screw(2) from the front roller mounting brackets and main frame, then lift the front roller out from the running belt. If necessary, remove the motor drive belt.

10 Remove the deck screws(6) and bracket(6) then lift out the deck.

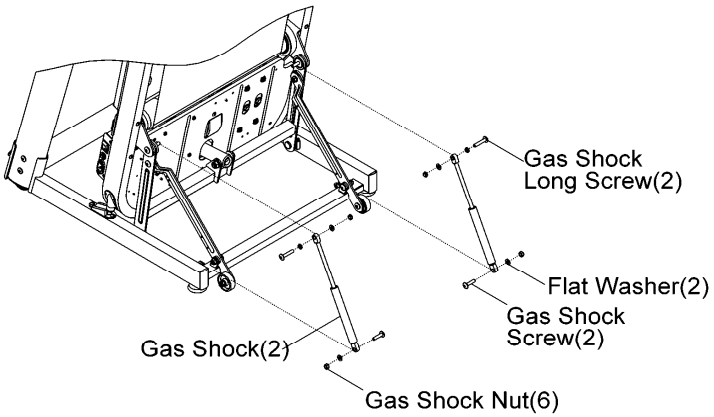
11 Remove the running belt and discard.

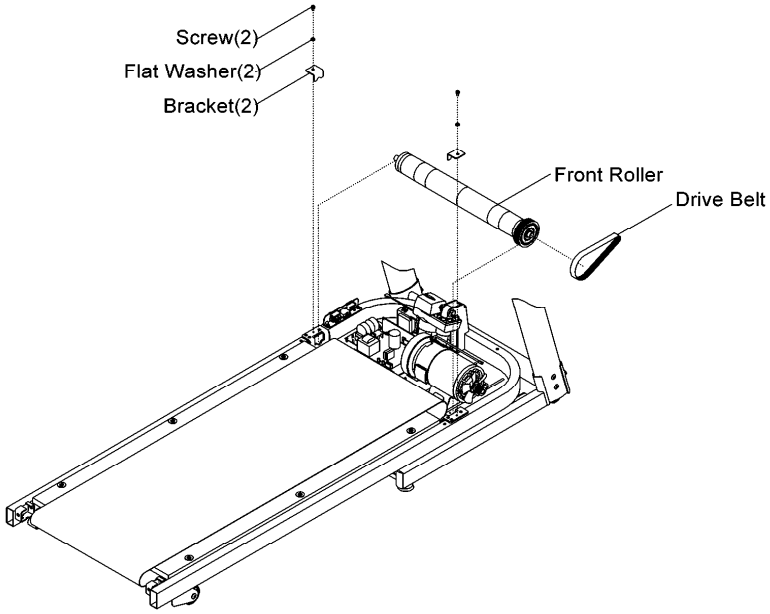
12 Install new running belt and deck in reverse order. Make sure to reinstall deck guards on the new deck. Retention the motor drive belt to 85~95 lbs. Do not over tighten belt.

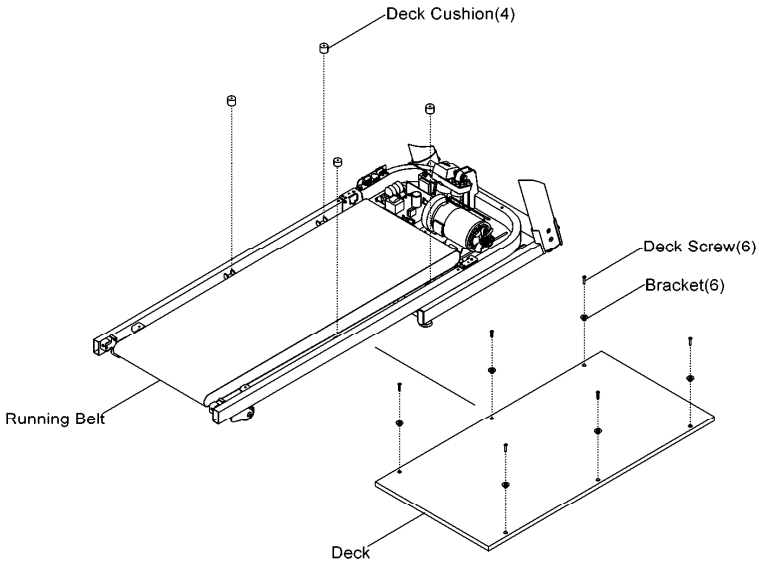
NOTE: when adjusting motor belt tension, the four mounting screws should be loosen, and then adjust motor belt tensioning screws(1) to make sure the motor drive belt to 85~95lbs.

13 Proceed to the following page for proper belt stretching and belt tracking adjustment.

14 Install the deck and running belt in reverse order

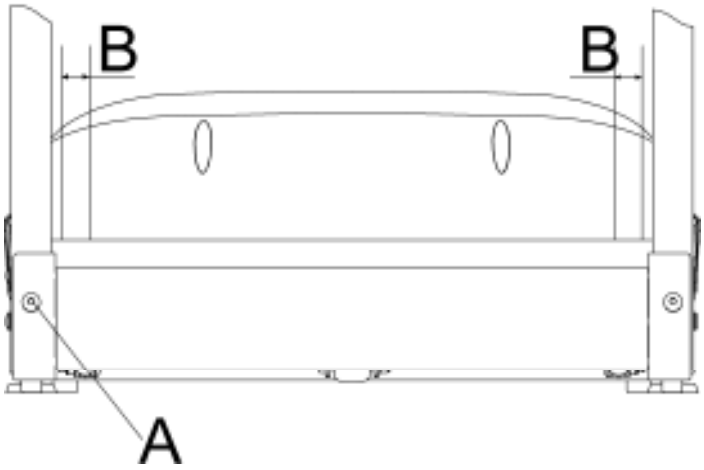






HS Consumer Treadmill
How To… Adjust Running Belt Tracking

Tools Required: Allen key set. (All fasteners are metric. Make sure that you have metric tools.)



1. After the treadmill has been installed and leveled, the belt must be checked for confirm proper tracking. First, plug the power cord into an appropriate outlet and turn the treadmill power ON.

2. Press the QUICK START button then increase speed to 8.0kph by pressing the SPEED+ button.

3. If the running belt has moved to the **RIGHT**, turn the RIGHT tension bolt 1/4 turn CLOCKWISE and the left tension bolt 1/4 turn counterclockwise to start the running belt tracking back to the center of the rear roller. If the running belt has moved to the **LEFT**, turn the left tension bolt 1/4 turn CLOCKWISE and the right tension bolt 1/4 turn counterclockwise to start the running belt tracking back to the center of the rear roller.

4. Repeat this adjustment until the running belt appears centered. The belt should be equal distance (B) on both sides of the rear roller.

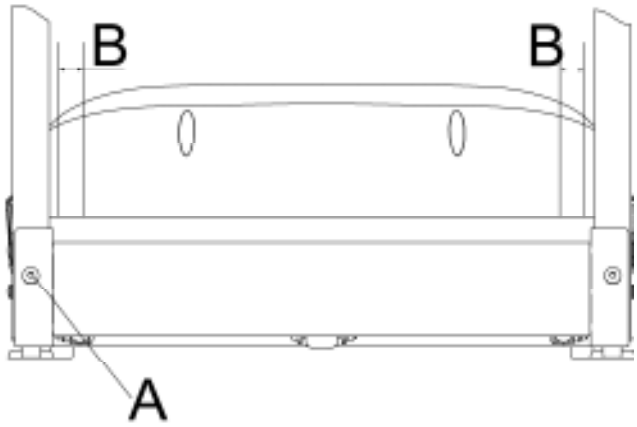
5. Allow the unit to operate for several minutes to see if the belt remains centered.

NOTE: During the adjustment above, DO NOT exceed one full turn of the adjusting screws in either direction.

How To… Adjust Running Belt Tension

Tools Required: Allen key set. (All fasteners are metric. Make sure that you have metric tools.)

1. Locate the two belt tensioning bolts on each side of the rear roller mounting bracket. The tensioning bolts are accessible from the holes provided in the rear roller guards.



2. Enter the manual program and adjust the belt alignment by running unit for five minutes at 8.0 kph. **DO NOT** run on the **BELT**.

3. Speed up to 16kph and check if the belt centers the treadmill.

4. Using the SPEED- button to slow down to 1kph. With the running belt speed at 2 mph (3.2 kph), begin walking on the treadmill. Tightly grasp the handlebars and attempt to stall the running belt. If the running belt slips, continue step until it's not slippy.

5. Stop the treadmill and alternately turn the running belt tensioning bolts (A) 1/4 turn clockwise to tension (See **How To… Adjust Running Belt Tracking** on previous page). Repeat Step 3 and Step 4 until slipping is eliminated. **DO NOT EXCEED ONE FULL TURN!**

HS Consumer Treadmill

How To…Replace The Motor Drive Belt

Tools Required: Allen key set**,** Phillips screwdriver, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

1. At the power switch, turn off the unit and unplug the power cord at the wall outlet.

2. Remove the motor cover front screws(4) of the motor cover, lift off the motor cover.

3. Loosen the motor belt tensioning screws(1), Fold the treadmill, loosen the four mounting screws(4) securing the motor to the bottom of the frame.
NOTE: To remove front roller easily, release motor belt via loosen motor belt tensioning screws(1) and the four mounting screws.

4. Unfold the treadmill. Move the motor mounting plate in the slotted holes towards the rear roller to relieve belt tension. Remove the motor drive belt from the end of the motor drive pulley.

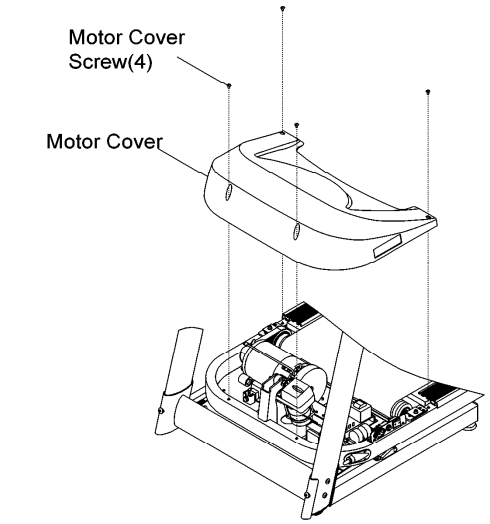
5. Loosen the rear roller tensioning bolts

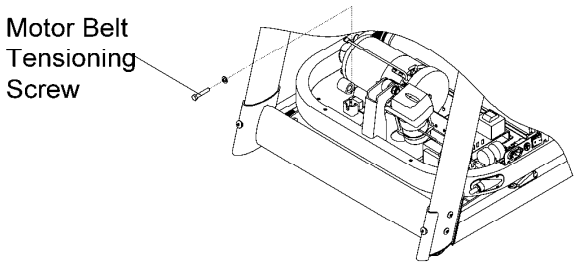
6. Remove the flat washers(2), bracket(2) and screw(2) from the front roller mounting brackets and main frame.

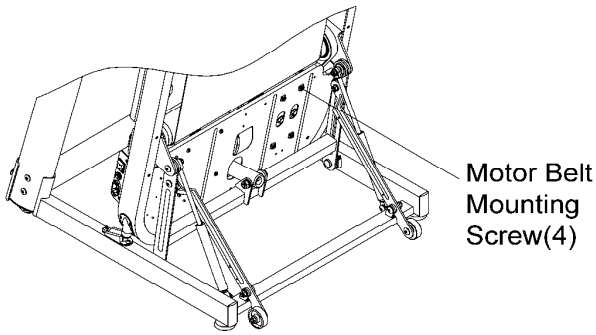
7. Lift the front roller out of its frame mount, slip off the motor drive belt from the pulley, and discard the belt.

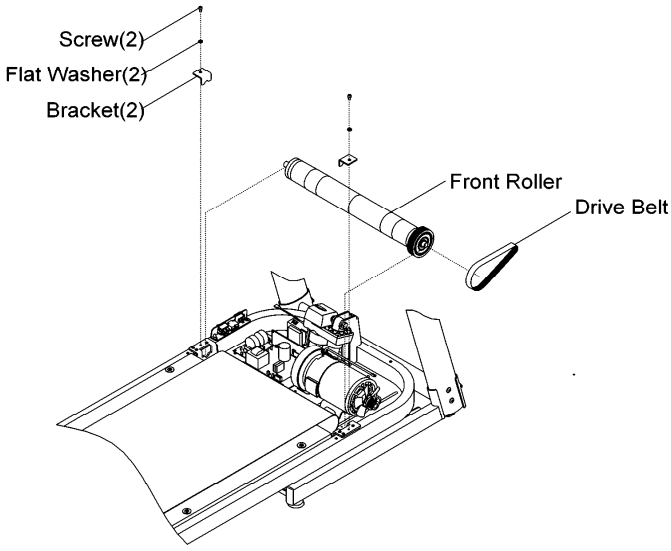
8. Install new motor drive belt in reverse order. Tension the belt to 85~95 lbs.(See section 3 page 3)

9. Re-tension the running belt and reset its tracking. Refer back to running belt tension and tracking procedure in this section.









How To…Replace The Drive Motor

Tools Required: Allen key set**,** Phillips screwdriver, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

1. At the power switch, turn off the unit, then unplug the power cord at the wall outlet.

2. Remove the motor cover front screws(4) of the motor cover, lift off the motor cover.

3. Remove the speed sensor cable by removing speed sensor screws(1). Set the speed sensor cable aside to be remounted on the new motor.

4. Disconnect all connectors from the motor (Please refer to WIRING DIAGRAM – Section IV, page 9).

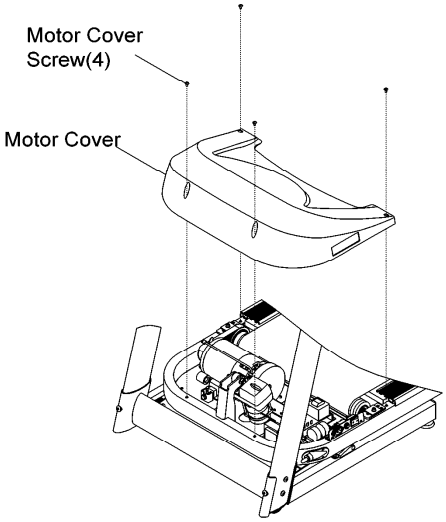
5. Remove the motor belt tensioning screws(1). Fold the treadmill and remove the four motor mounting screws.
NOTE: two people are needed in this process. One has to hold the motor in case it drops on the floor

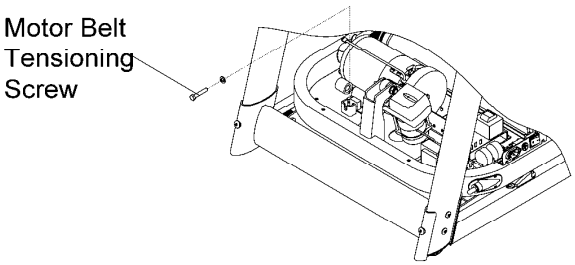
6. Unfold the treadmill. Move the motor mounting plate towards the rear roller to relieve belt tension. Remove the drive motor belt off the end of the pulley.

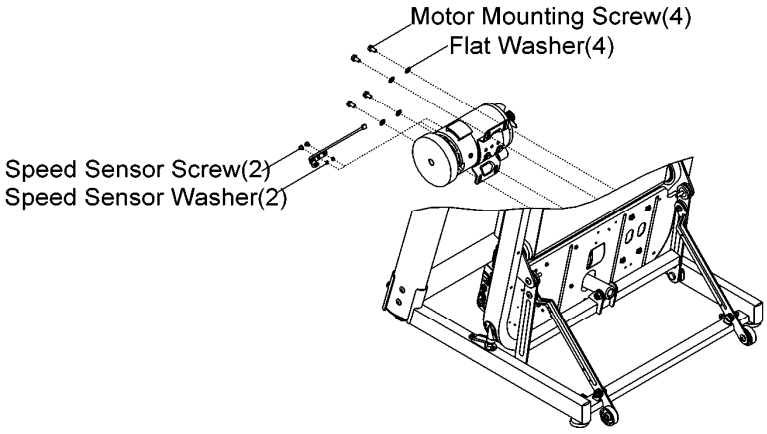
7. Lift out the motor.

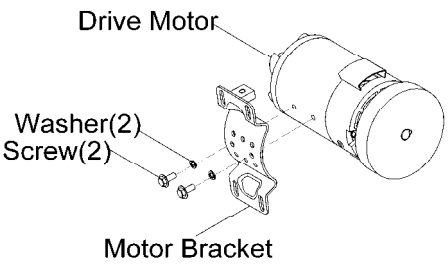
8. Remove the motor mounting screws(4) and discard the motor. Set the motor bracket aside to be remounted on the new motor.

10. Install new drive motor in reverse order and make sure to properly adjust the motor drive belt (85~95 lbs) (See section 3 page 3) and running belt. (See **How To… Replace The Running Belt and Deck**)









HS Consumer Treadmill

How To…Replace The Front Roller

Tools Required: Allen key set**,** Phillips screwdriver, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

1. At the power switch, turn off the unit then unplug the power cord at the wall outlet.

2. Remove the motor cover front screws(4) of the motor cover, lift off the motor cover.

3. Loosen the rear roller tensioning bolts to slacken the running belt.

4. Loosen the motor belt tensioning screws(1). Fold the treadmill, loosen the four motor mounting screws.

NOTE: To remove front roller easily, release motor belt via loosen motor belt tensioning screws (1) and the four mounting screws.

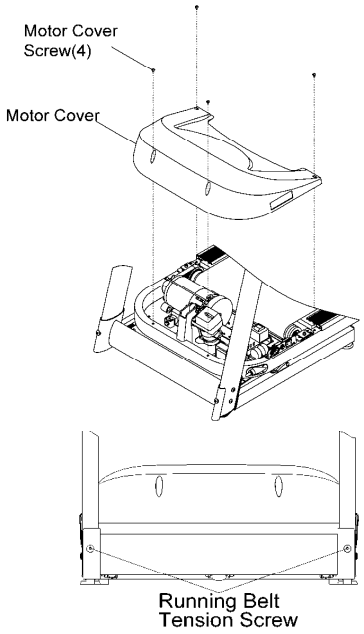
5. Remove the end caps by removing end cap screws(2).

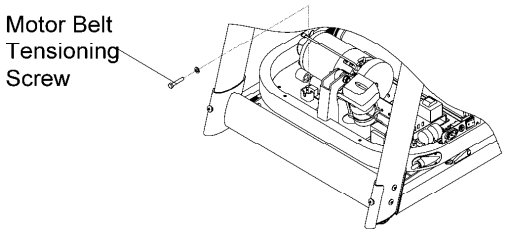
6. Unfold the treadmill. Slide each extrusion back.

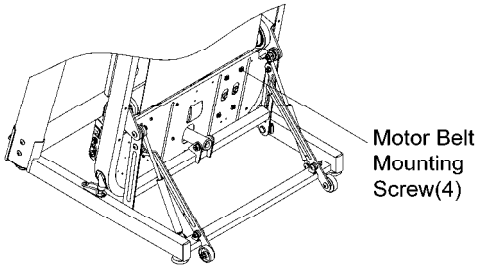
7. Move the motor mounting plate towards the rear roller to relieve belt tension. Remove the flat washers(2), bracket(2) and screw(2) from the front roller mounting brackets and main frame.

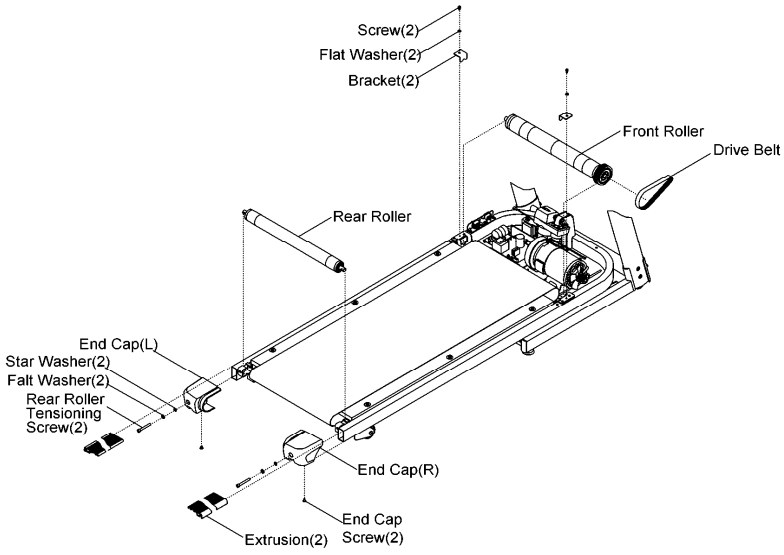
8. Lift out the front roller from the running belt and remove the motor drive belt.

9. Install new front roller in reverse order and make sure to properly adjust the motor drive belt (85~95 lbs.) (See section 3 page 3) and running belt. (See **How To… Replace The Running Belt and Deck**.)





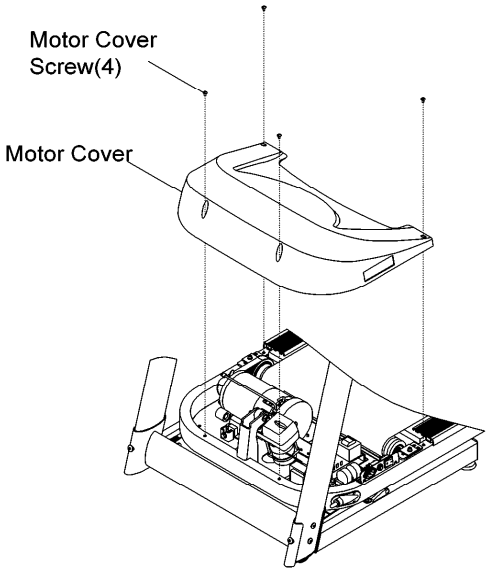




How To…Replace The Rear Roller

Tools Required: Allen key set**,** Phillips screwdriver, rubber hammer, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION



1. At the power switch, turn off the unit, then unplug the power cord at the wall outlet.

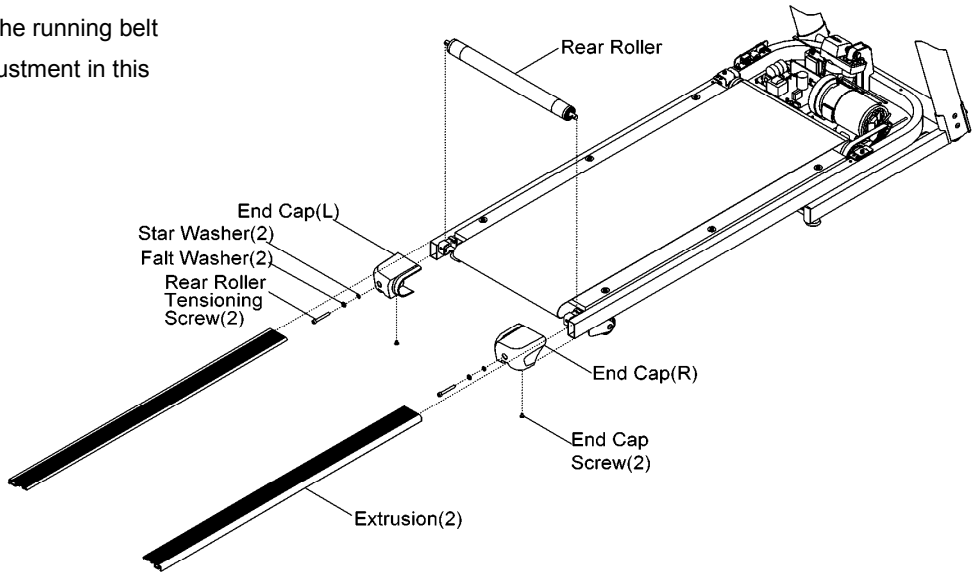
2. Remove the motor cover front screws(4) of the motor cover, lift off the motor cover.

NOTE: In order to lift rear roller out, extrusions need to be moved out of the way. Motor cover has to be removed to get enough space for sliding the extrusions forward.

3. Fold the treadmill. Remove the end caps by removing end cap screws(2) .

4. Unfold the treadmill. Remove the rear roller tensioning screws(1), flat washers(2) and star washers(2). Slide the extrusions(2) towards the front roller.

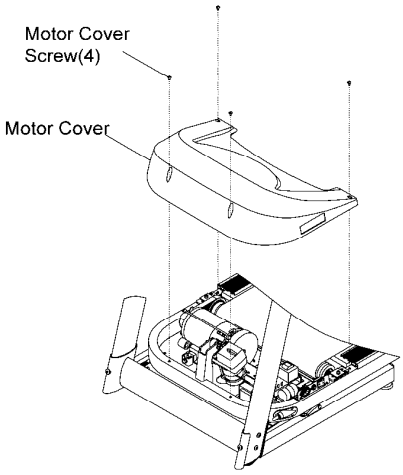
5. Install new rear roller in reverse order of removal. Make sure to adjust the running belt tension. Refer back to belt adjustment in this section.



How To…Replace The Deck Cushion

Tools Required: Allen key set, Phillips screwdriver, and rubber hammer. (All fasteners are metric. Make sure that you have metric tools.) ……..

REMOVAL AND INSTALLATION



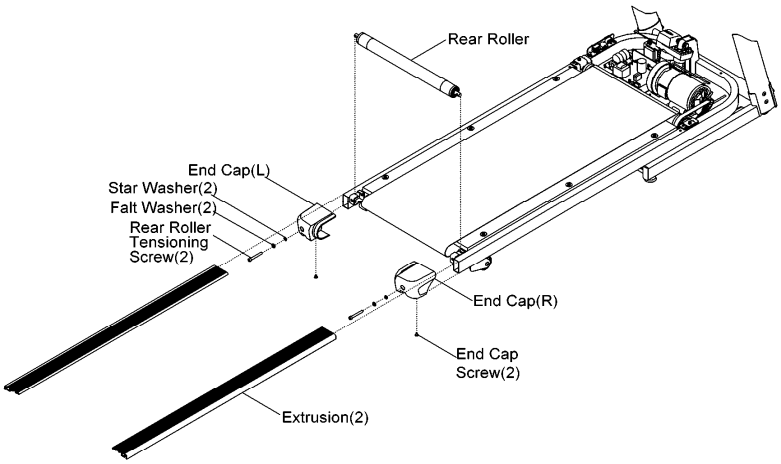
1. At the power switch, turn off the unit, then unplug the power cord at the wall outlet.

2. move the motor cover front screws(4) of the motor cover, lift off the motor cover.

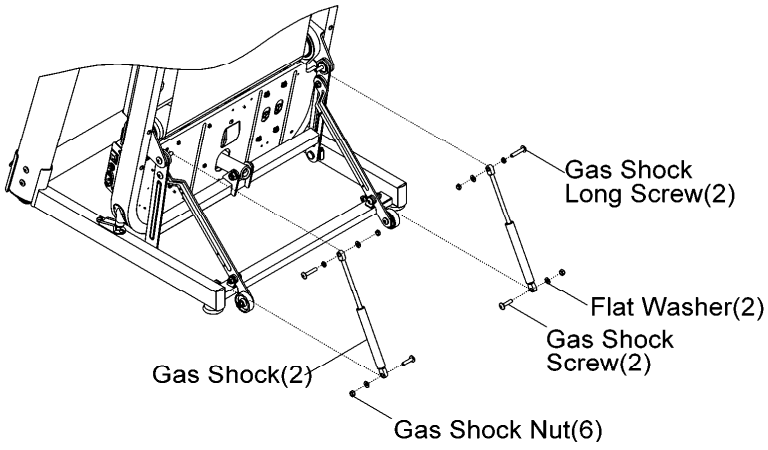
3. Fold the treadmill. Remove the end caps by removing end cap screws(2).

4. Remove the gas shocks by removing gas shock nuts(6), screws(2), long screws(2),flat washers(2) from each other.

CAUTION: for safety reasons, remove gas shocks to avoid injury when lifting off the deck. Without the weight of the deck, gas shocks will spring up and create safety concern.



5. Unfold the treadmill. Remove the rear roller tensioning screws(1), flat washers(2) and star washers(2).



How To…Replace The Deck Cushion - Continued

Tools Required: Allen key set, Phillips screwdriver, and rubber hammer. (All fasteners are metric. Make sure that you have metric tools.) ……..

REMOVAL AND INSTALLATION

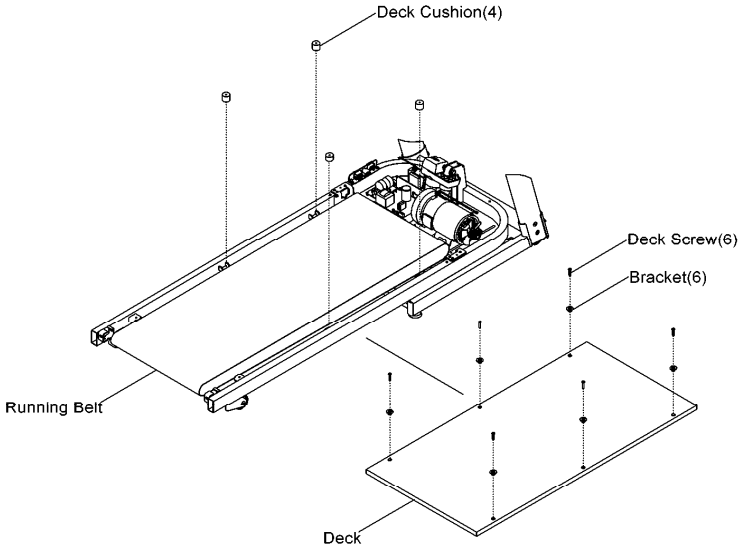
6. Slide each extrusion back.

7. Remove the deck screws(6) and brackets(6), then lift the deck out of the running belt.

8. Remove deck cushions(4) from the frame.

9. Install new deck cushions in reverse order.

10. Re-tension and center the running belt as described in the beginning of this section.



How To…Replace The Incline Motor

Tools Required: Phillips screwdriver, Sharp nose pliers, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

1. Turn power on. Check to see if treadmill is at 12% incline.

2. If not be able to process via console, try to connect incline motor wires directly to AC lines. The power will make incline go to 12%.

Caution: For safety reasons, put blocks between the frame to hold up the main frame.

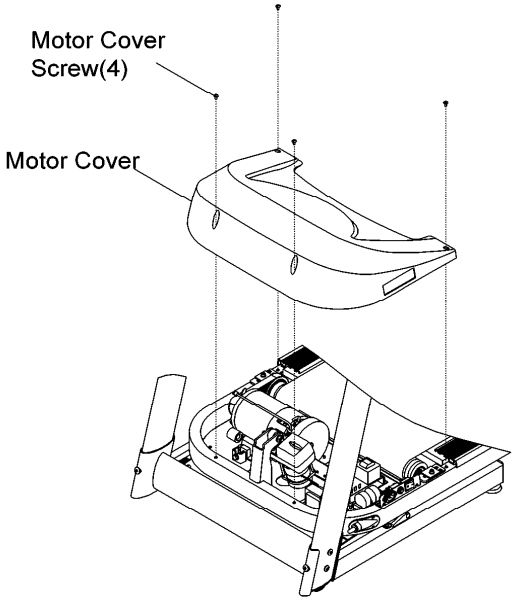
3. At the power switch, turn off the unit and unplug the power cord at the wall outlet.

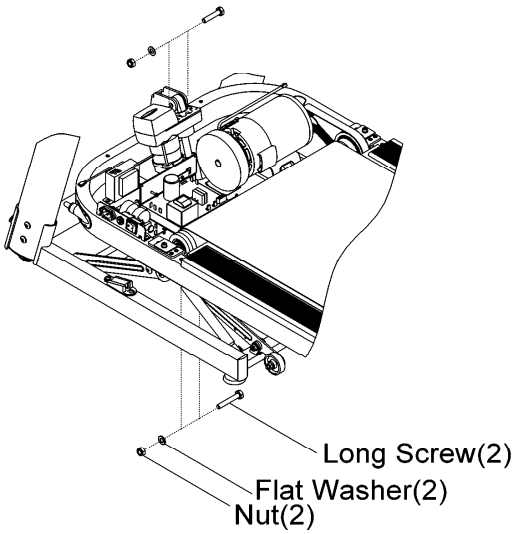
4. Remove the motor cover front screws(4) of the motor cover, lift off the motor cover.

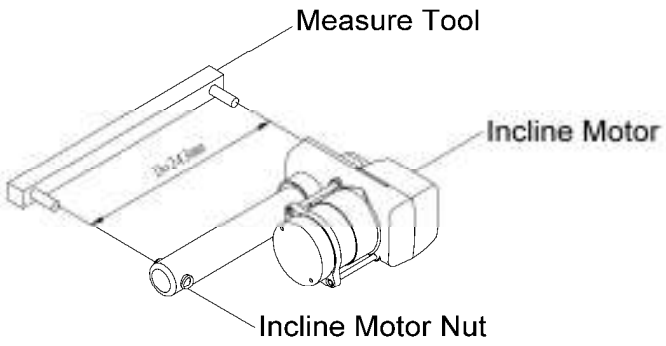
5. Disconnect all cable connectors from the incline motor (Please refer to WIRING DIAGRAM – Section IV, page 9).

6. Remove the incline motor long screws(2) ,flat washers(2) and nuts(2).

7. Remove incline motor by wrench







How To…Replace The Incline Motor - Continued

Tools Required: Phillips screwdriver, Sharp nose pliers, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

9. Replace the new incline motor.
a. Secure the long screw, fix up the incline motor, not to secure tightly.

b. Incline the incline motor, secure the flat washer& nut, not to secure tightly.

c. Secure the corresponding screws both side together, till the screws tightly.

10. Connect all cables to the right orientation. Please pay attention to the location of cables. (Order of cables: white, red, black. Please refer to the right photo)

11. Recommended that clear up the cables. (You will need two nylon cable ties. Spec : 20cm long. Please refer to the right photo)

12. Proceed to the following page for calibration the incline motor.

How To…Replace The Incline Motor - Continued

Tools Required: Phillips screwdriver, Sharp nose pliers, and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

When incline motor needs calibration:

1. When controller changed.
2. When incline motor is changed.
3. When both controller and incline motor are changed.
4. If controller CPU is changed.

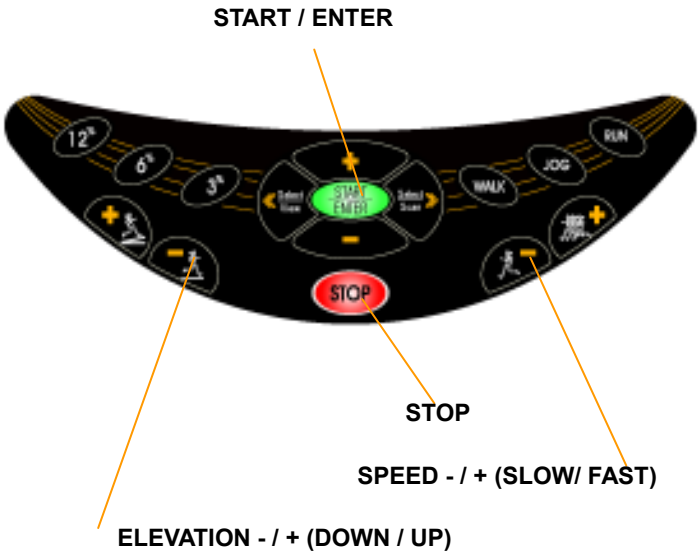
CALIBRATION

1. To calibrate, make sure the treadmill is not running (running belt not moving).
2. Turn power on. Wait a few seconds.
3. Press the STOP and SPEED- buttons at the same time, then the buttons STOP and SPEED+, then the SPEED- button. The treadmill is in calibration mode.

   Press the START button. The treadmill will run calibration for the incline motor.

   NOTE: If error 5 appears, it means the controller remembers a different value, so we need to bypass the controller to calibrate the incline motor. In that case, we have to disconnect the incline sensor cable to bypass the old memory (Please refer to WIRING DIAGRAM – Section IV, page 7). Then calibration can be done properly.

4. Just run through a few functions to make sure everything is in good condition.



Section III

How To…Replace The Motor Controller

Tools Required: Phillips Screwdriver (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

1. At the power switch, turn off the unit, then unplug the power cord at the wall outlet.

2. Remove the motor cover front screws (4) of the motor cover, lift off the motor cover.

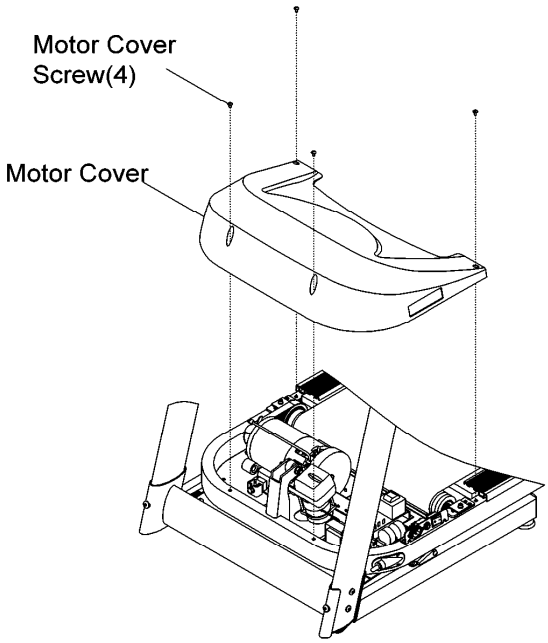
3. Disconnect all electrical connectors from the motor controller board.(Please refer to WIRING DIAGRAM – Section IV, page 9)

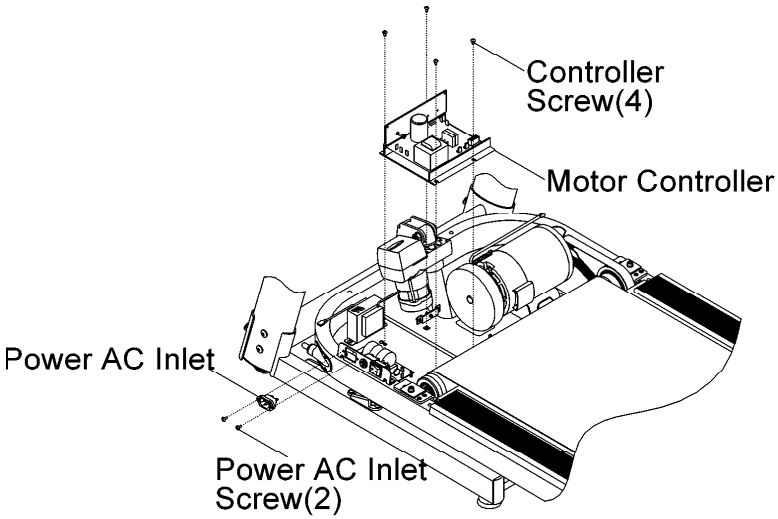
4. Remove the power switch, AC inlet and circuit breaker by removing the power AC inlet screws(2)

5. Remove the controller screws(4) and lift out the motor controller from the frame.

6. Install new motor controller in reverse order.

7. Make sure to calibrate incline motor. Refer back to incline motor calibration in this section.





How To…Replace The Moving Wheel

Tools Required: Allen key set**,** and open end wrench set. (All fasteners are metric. Make sure that you have metric tools.)

REMOVAL AND INSTALLATION

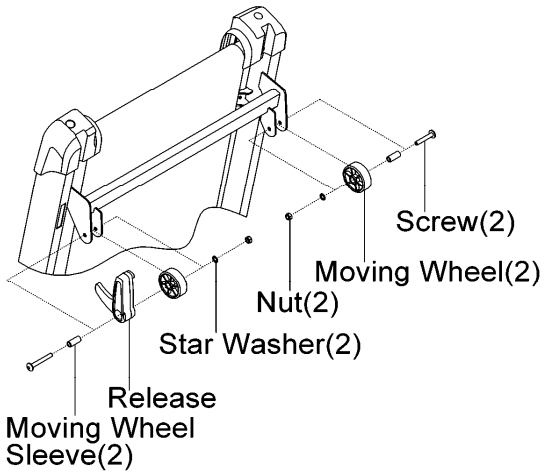
1. At the power switch, turn off the unit, then unplug the power cord at the wall outlet.

2. Fold the treadmill.

3. Remove the screws(2), star washers(2) and nuts(2).

4. Remove the moving wheel.

5. Install new moving wheel in reverse order.

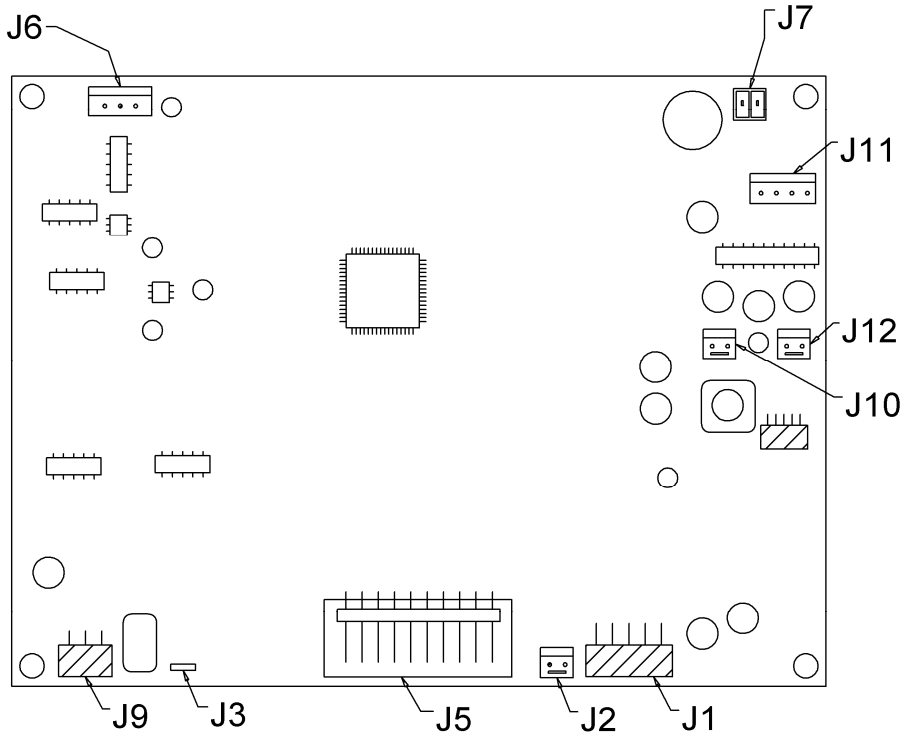


SECTION IV

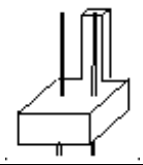
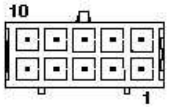
ELECTRONIC OVERVIEW
AND
WIRING BLOCK DIAGRAM

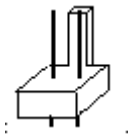
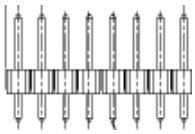
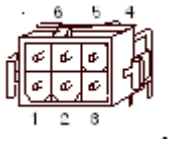
Function Description

The T560 console is designed to act as an intelligent display and keypad interface. It is intended to work in conjunction with the Motor Control module to form the nucleus of the I/O and control system. The console board periodically reads the keypad input port to check for user inputs, updates and refreshes the status LCDs, data display, and communicates with the Motor Control module.



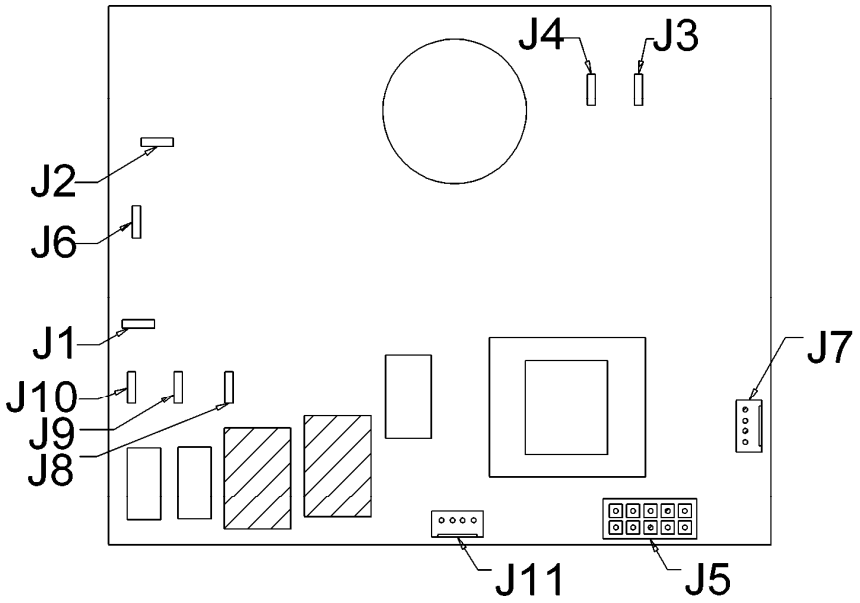
Connectors and Pin Functions

Connector	Location	Pin	Functional Description
J7 is a 2pin led.		1	
		2	
J1 is a 10pin connector used for connection with MCB		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	

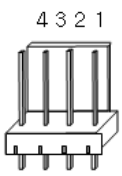
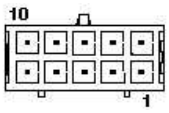
J2 is used for safety key		1	
		2	
J5 is used for keypad		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
J3 is used for earth		1	
J9 is a 6pin connector used for connection with hand pulse.		1	Safety key
		2	Ground
		3	Ground
		4	VCC(12V)
		5	Receive
		6	Send

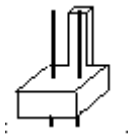
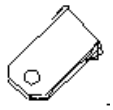
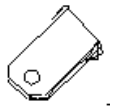
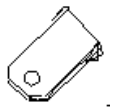
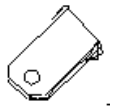
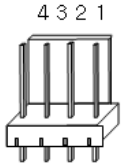
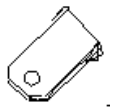
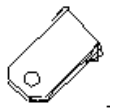
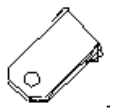
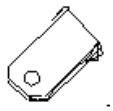
Functional Description

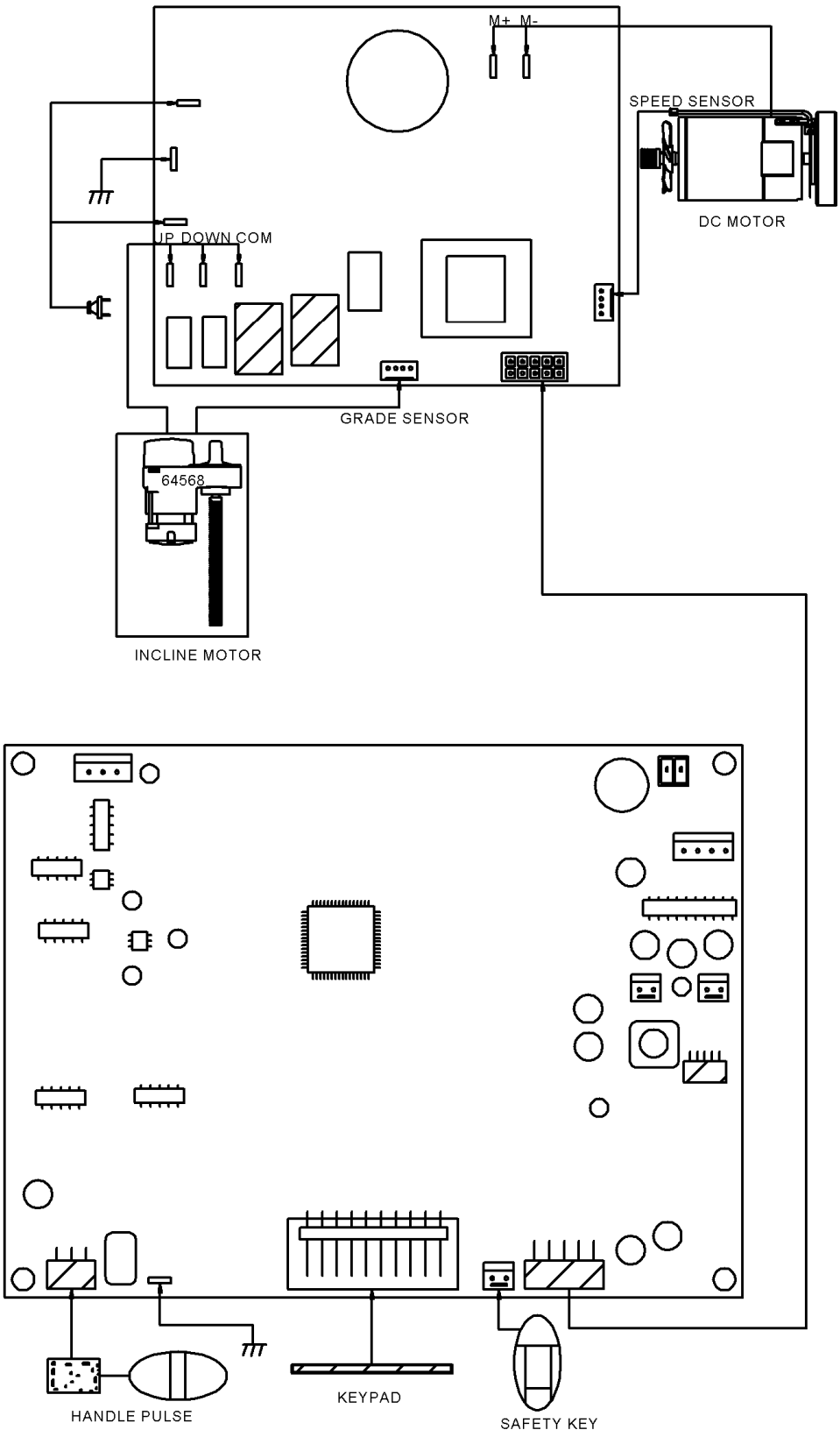
The Motor Controller PCBs are designed to act as an interface between the Drive motor, Display Console, and the Incline Motor. The desired belt speed and elevation is sent down to the motor controller and incline motor via the users selected input into the console. The motor is driven by a fixed frequency variable duty cycle signal. If an error condition is detected the main power relay receives its bus voltage from the console through the emergency pull switch. This relay can be energized by having the emergency pull switch in its proper place. Opening of the relay does not remove power to the console or the logic on the motor control board, but will interrupt power to the incline and drive motors.

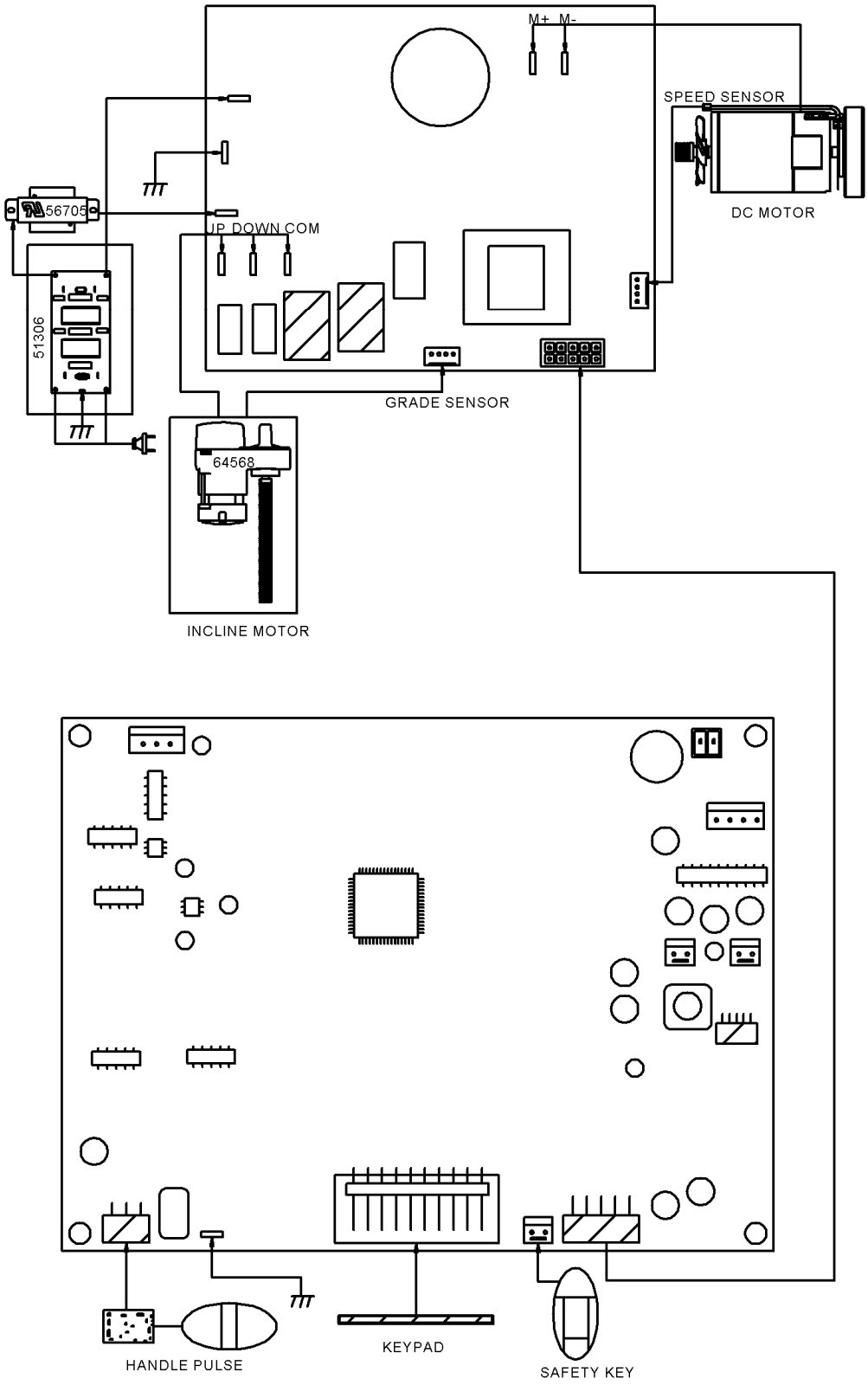


Connectors and Pin Functions

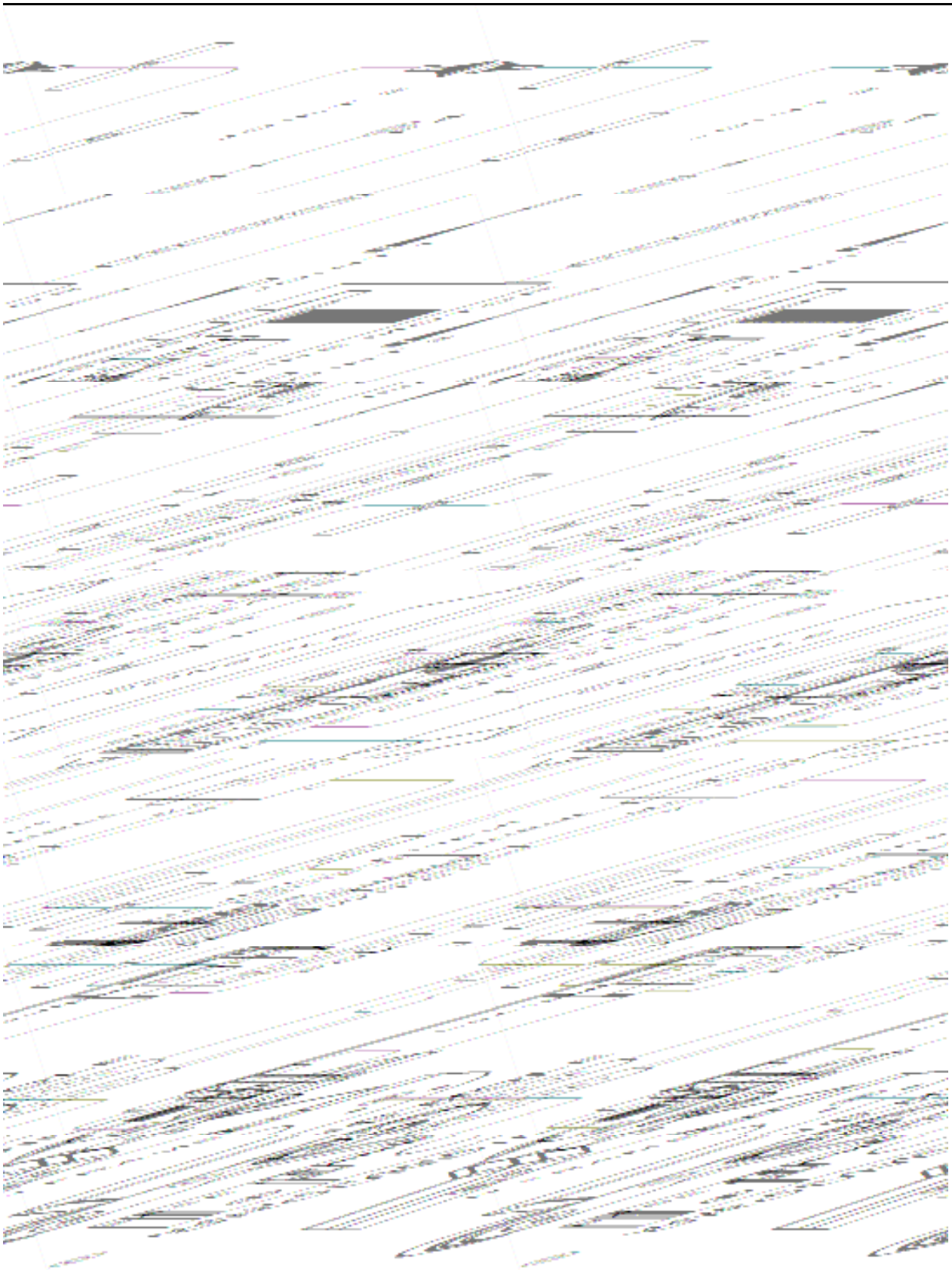
Connector	Location	Pin	Functional Description
J7 is a 4pin connector used for speed sensor connection		1	
		2	
		3	
		4	
J5 is a 10pin connector used to connect to the console		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	

J2 is used for safety key		1	
		2	
J10 is UP LIFE to the incline motor connect.		1	
J1 is a pin connector used for chock L.		1	
J2 is a pin connector used for filter N.		1	
J6 is a pin connector used for chock L.		1	
J11 is a 4pin connector used for incline sensor connection.		1	
		2	
		3	
		4	
J9 is DOWN LIFE to the incline motor connect.		1	
J8 is COM LIFE to the incline motor connect.		1	
J3 is a pin connector used for motor -.		1	
J4 is a pin connector used for motor +		1	

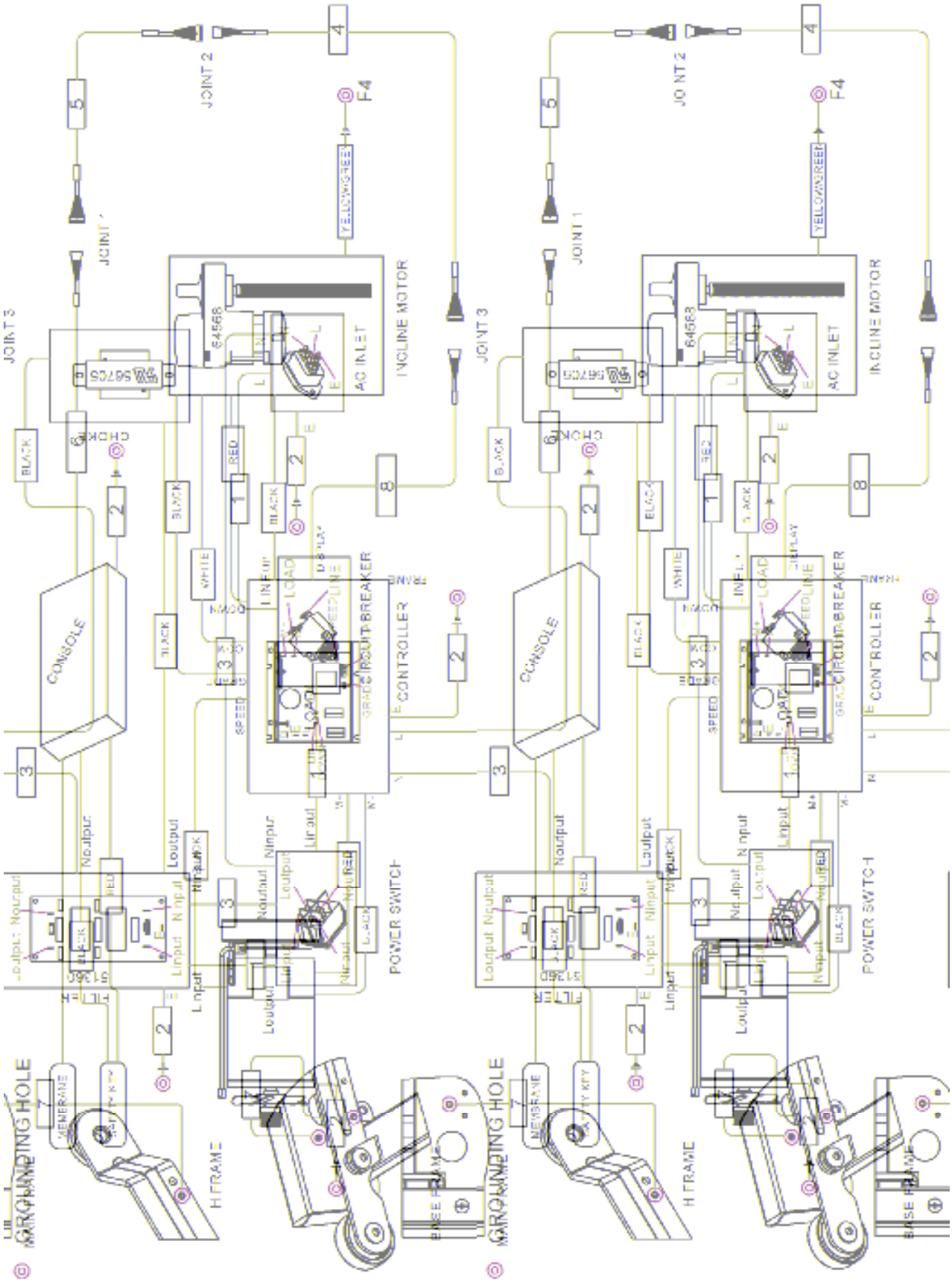

M+ M-
SPEED SENSOR
DC MOTOR
UP DOWN COM
GRADE SENSOR
64568
INCLINE MOTOR
HANDLE PULSE
KEYPAD
SAFETY KEY


M+ M-
SPEED SENSOR
DC MOTOR
56705
UP DOWN COM
51306
GRADE SENSOR
64568
INCLINE MOTOR
HANDLE PULSE
KEYPAD
SAFETY KEY

ELECTRONIC OVERVIEW – T560 110V WIRING DIAGRAM



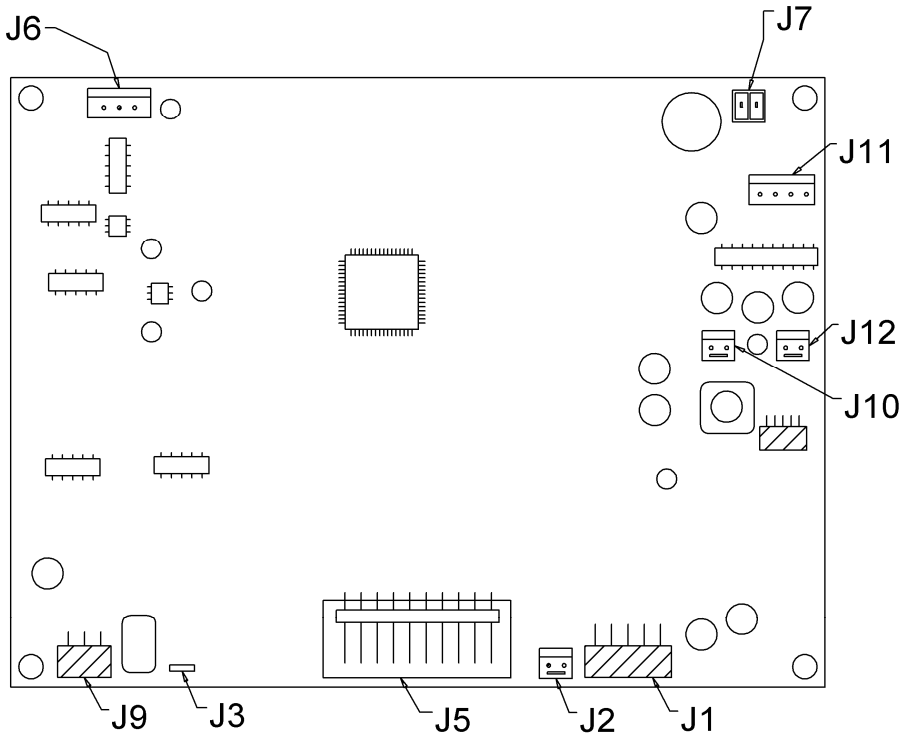
T560 （110V-Layout）-A- 070731					
Item.	**PART NO.**	**Color**	**Length**	**QTY**	**Remark**
1	WI221100	BLACK	100mm	3	
2	WI233080	YELLOW/GREEN	80mm	4	
3	WI222120	WHITE	120mm	2	
4	64792	BLACK	1200mm	1	
5	64790	BLACK	450mm	1	
6	64787	BLACK	400mm	1	
7	WI336120	BRAID	120mm	2	
8	64791	N/A	1200mm	1	


JOINT 3
JOINT 2
JOINT 1
F4
YELLOW/GREEN
INCLINE MOTOR
AC INLET
64568
64563
CHOKE
BLACK
WHITE
RED
CONSOLE
CIRCUIT BREAKER
E CONTROLLER
POWER SWITCH
GROUNDING HOLE
H FRAME
BASE FRAME
MEMBRANE
SAFETY KEY

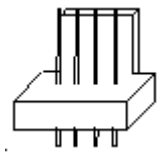
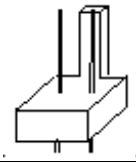
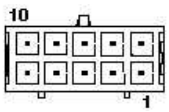
T560 （230V-Layout）-A- 070731					
Item.	**PART NO.**	**Color**	**Length**	**QTY**	**Remark**
1	WI221100	BLACK	100mm	3	
2	WI233080	YELLOW/GREEN	80mm	5	
3	WI222120	WHITE	120mm	3	
4	64792	BLACK	1200mm	1	
5	64790	BLACK	450mm	1	
6	64787	BLACK	400mm	1	
7	WI336120	BRAID	120mm	2	
8	64791	N/A	1200mm	1	

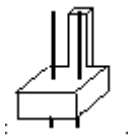
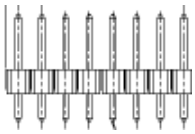
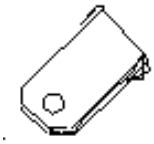
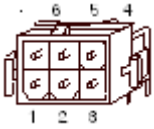
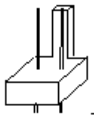
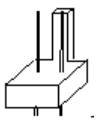
Function Description

The T561 console is designed to act as an intelligent display and keypad interface. It is intended to work in conjunction with the Motor Control module to form the nucleus of the I/O and control system. The console board periodically reads the keypad input port to check for user inputs, updates and refreshes the status LCDs, data display, and communicates with the Motor Control module.



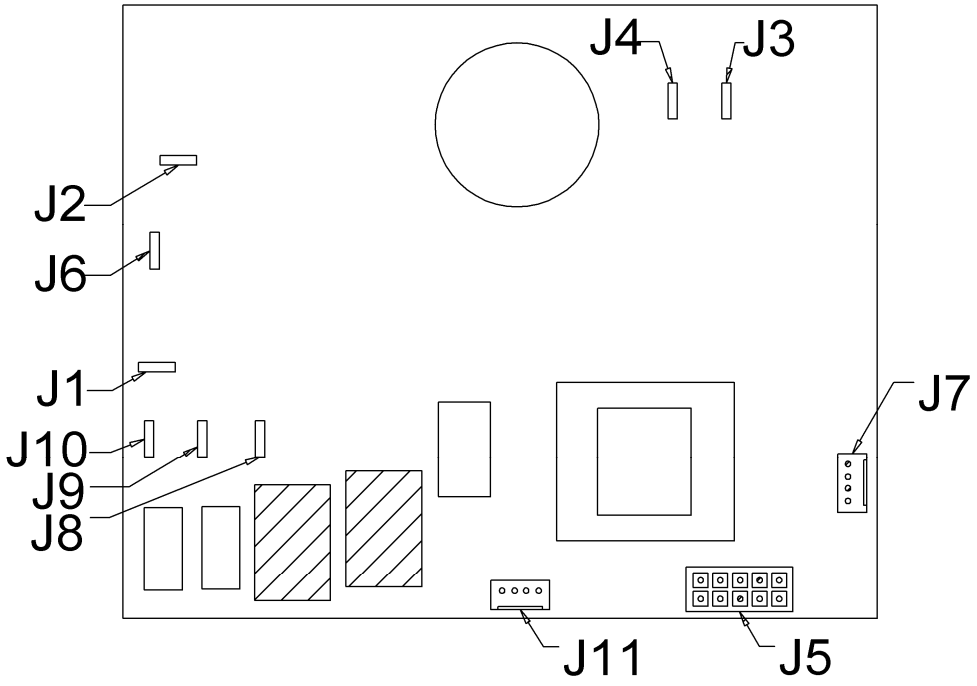
Connectors and Pin Functions

Connector	Location	Pin	Functional Description
J11 is a 4pin ext audio.		1	
		2	
		3	
		4	
J7 is a 2pin led.		1	
		2	
J1 is a 10pin connector		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	

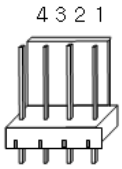
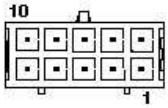
J2 is used for safety key		9	
		10	
		1	
		2	
J5 is used for keypad		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
J3 is used for earth		1	
J9 is a 6pin connector used for connection with hand pulse.		1	Safety key
		2	Ground
		3	Ground
		4	VCC(12V)
		5	Receive
		6	Send
J6 is used for wireless.(3 pin)		1	
		2	
		3	
J10 is a 2pin audio out.		1	
		2	
J12 is a 2pin audio out.		1	
		2	

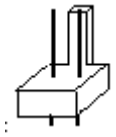
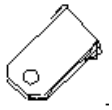
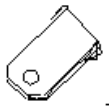
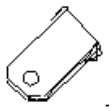
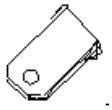
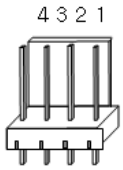
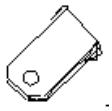
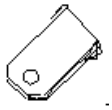
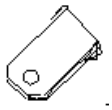
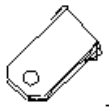
Functional Description

The Motor Controller PCBs are designed to act as an interface between the Drive motor, Display Console, and the Incline Motor. The desired belt speed and elevation is sent down to the motor controller and incline motor via the users selected input into the console. The motor is driven by a fixed frequency variable duty cycle signal. If an error condition is detected the main power relay receives its bus voltage from the console through the emergency pull switch. This relay can be energized by having the emergency pull switch in its proper place. Opening of the relay does not remove power to the console or the logic on the motor control board, but will interrupt power to the incline and drive motors.

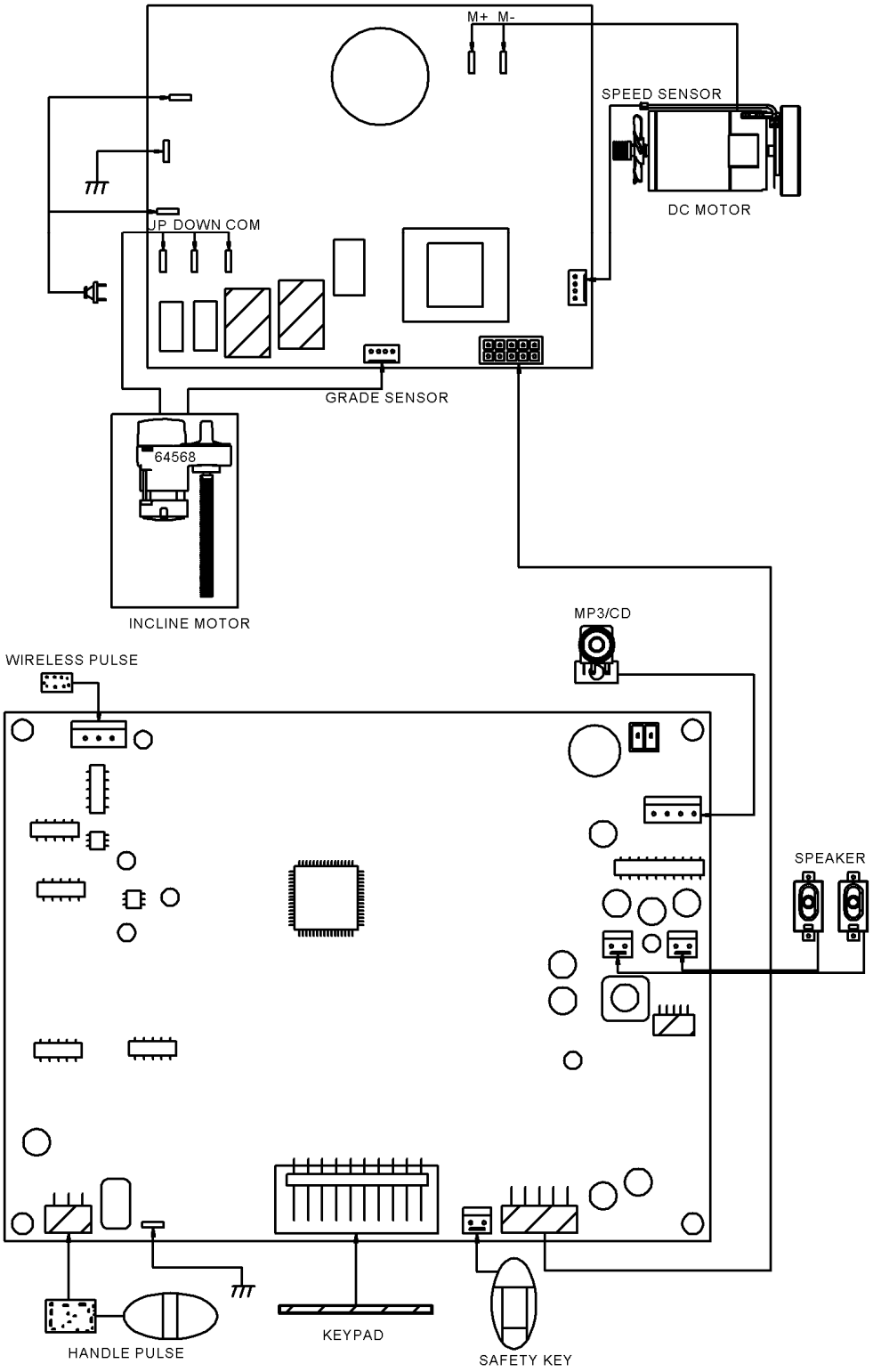


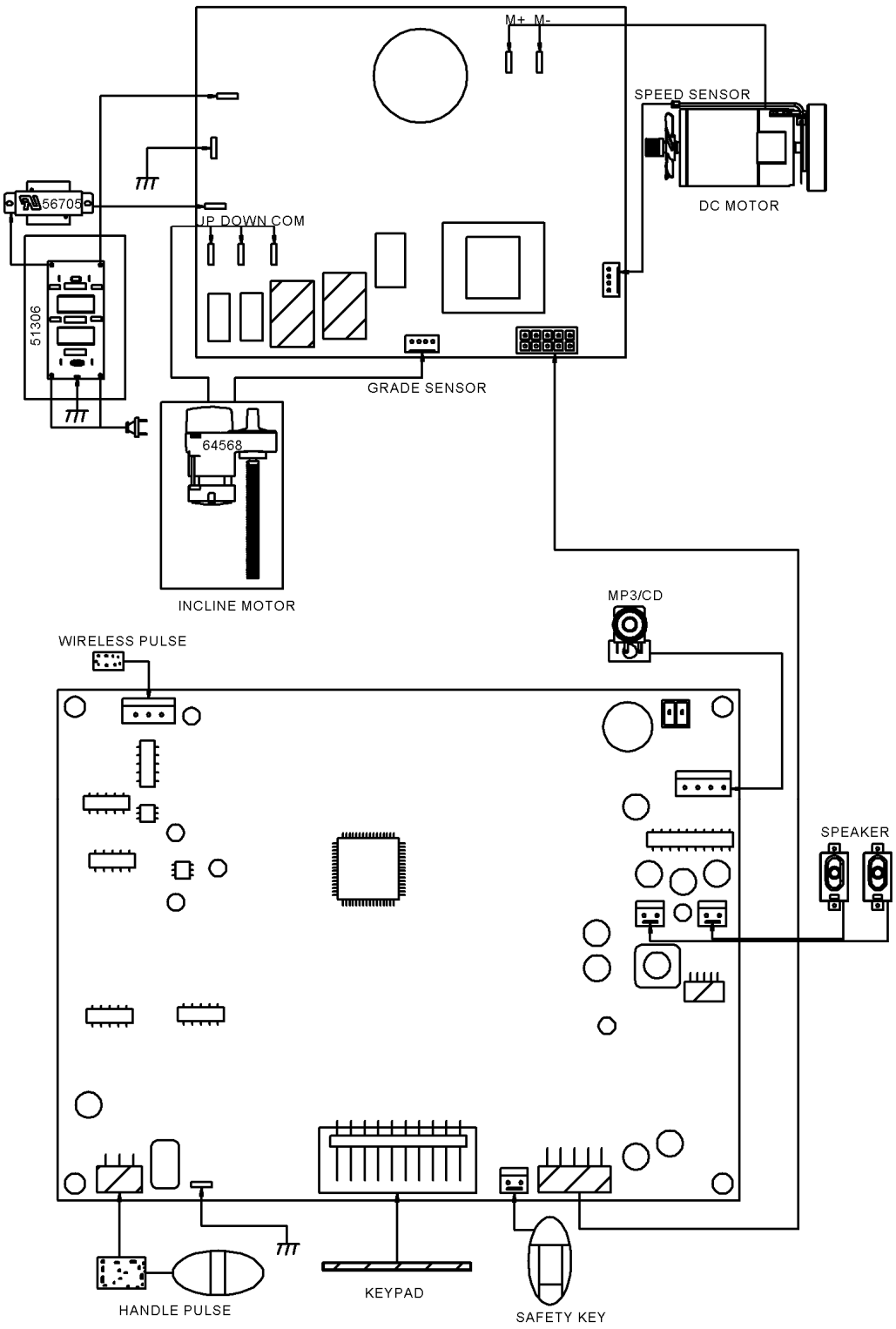
Connectors and Pin Functions

Connector	Location	Pin	Functional Description
J7 is a 4pin connector used for speed sensor connection		1	
		2	
		3	
		4	
J5 is a 10pin connector used to connect to the console		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	

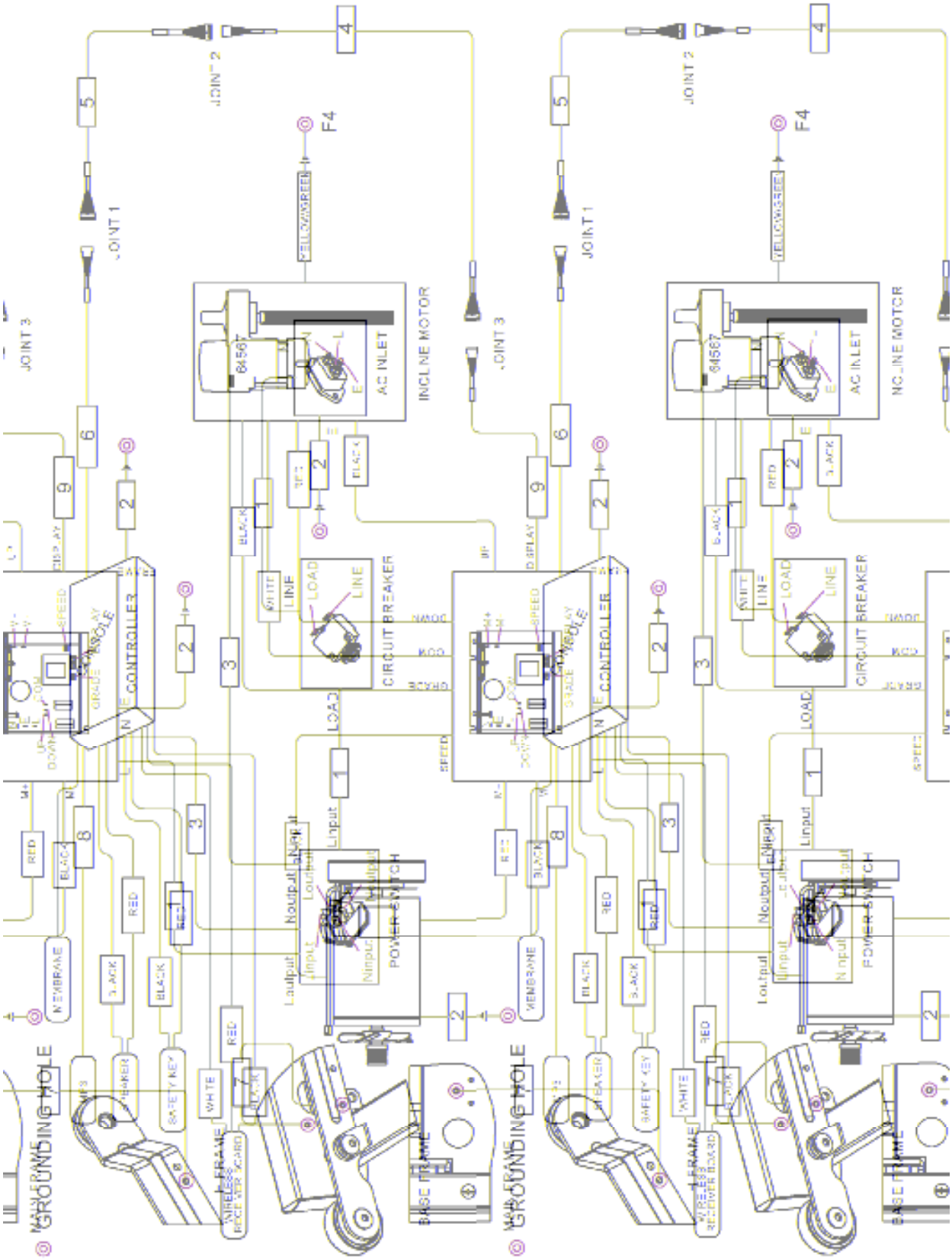
J2 is used for safety key		10	
		1	
		2	
J10 is UP LIFE to the incline motor connect.		1	
J1 is a pin connector used for chock L.		1	
J2 is a pin connector used for filter N.		1	
J6 is a pin connector used for chock L.		1	
J11 is a 4pin connector used for incline sensor connection.		1	
		2	
		3	
		4	
J9 is DOWN LIFE to the incline motor connect.		1	
J8 is COM LIFE to the incline motor connect.		1	
J3 is a pin connector used for motor -.		1	
J4 is a pin connector used for motor +		1	

ELECTRONIC OVERVIEW – T561(110V) BLOCK DIAGRAM



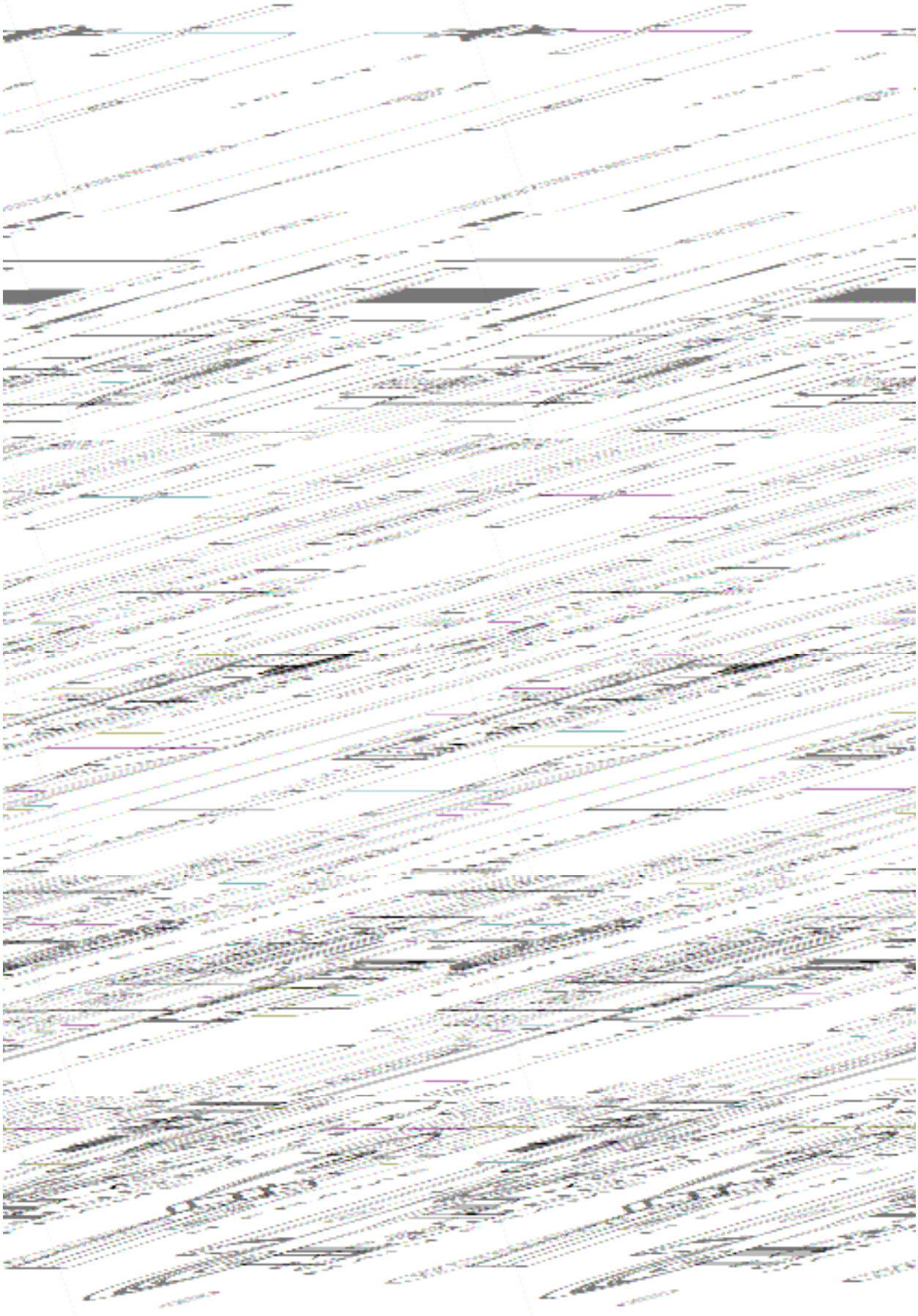

M+ M-
SPEED SENSOR
DC MOTOR
56705
UP DOWN COM
51306
GRADE SENSOR
64568
INCLINE MOTOR
MP3/CD
WIRELESS PULSE
SPEAKER
HANDLE PULSE
KEYPAD
SAFETY KEY

ELECTRONIC OVERVIEW – T561 110V WIRING DIAGRAM



T561 （110V-Layout）-A- 070731					
Item.	**PART NO.**	**Color**	**Length**	**QTY**	**Remark**
1	WI221100	BLACK	100mm	3	
2	WI233080	YELLOW/GREEN	80mm	4	
3	WI222120	WHITE	120mm	2	
4	64792	BLACK	1200mm	1	
5	64790	BLACK	450mm	1	
6	64787	BLACK	400mm	1	
7	WI336120	BRAID	120mm	2	
8	64789	N/A	110mm	1	
9	64791	N/A	1200mm	1	

ELECTRONIC OVERVIEW – T561 230V WIRING DIAGRAM



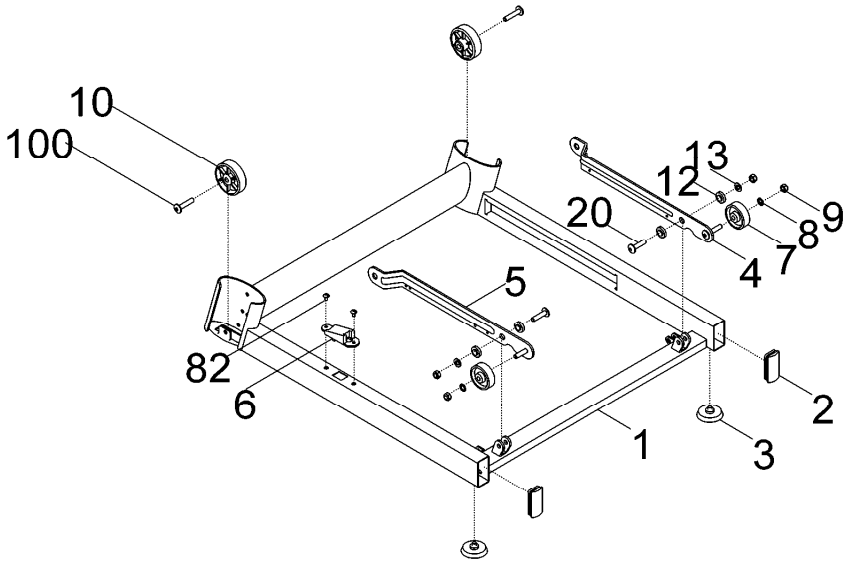
T561 （230V-Layout）-A- 070731					
Item.	**PART NO.**	**Color**	**Length**	**QTY**	**Remark**
1	WI221100	BLACK	100mm	3	
2	WI233080	YELLOW/GREEN	80mm	5	
3	WI222120	WHITE	120mm	3	
4	64792	BLACK	1200mm	1	
5	64790	BLACK	450mm	1	
6	64787	BLACK	400mm	1	
7	WI336120	BRAID	120mm	2	
8	64789	N/A	110mm	1	
9	64791	N/A	1200mm	1	

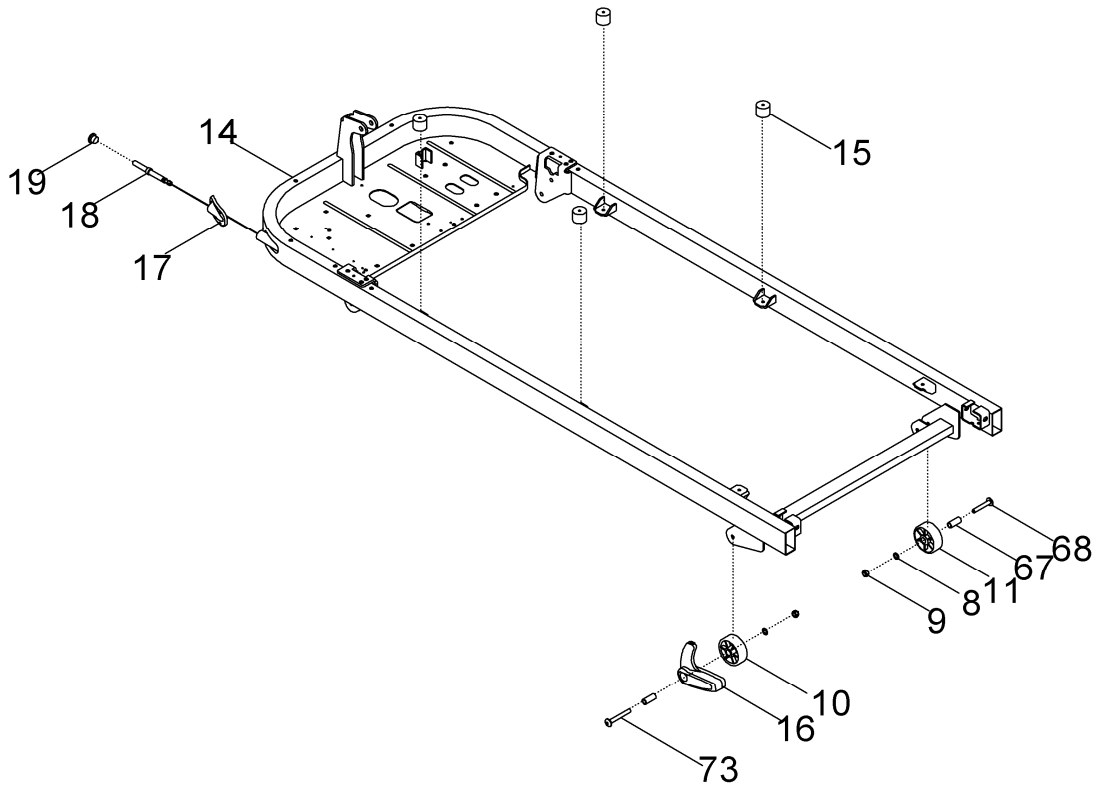
NOTE:

SECTION V

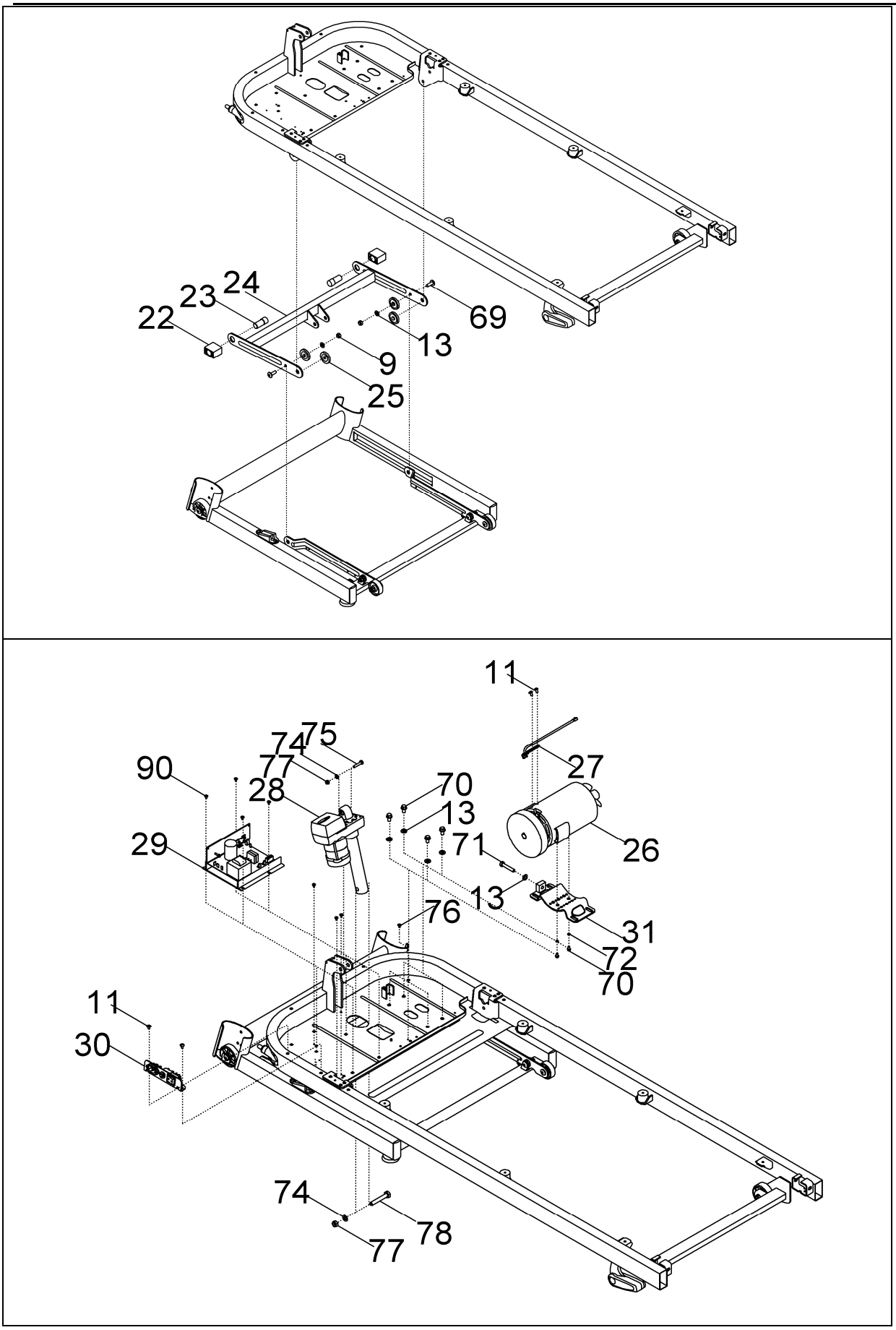
PARTS IDENTIFICATION

T560(110V)	*Update:2007.08.08*

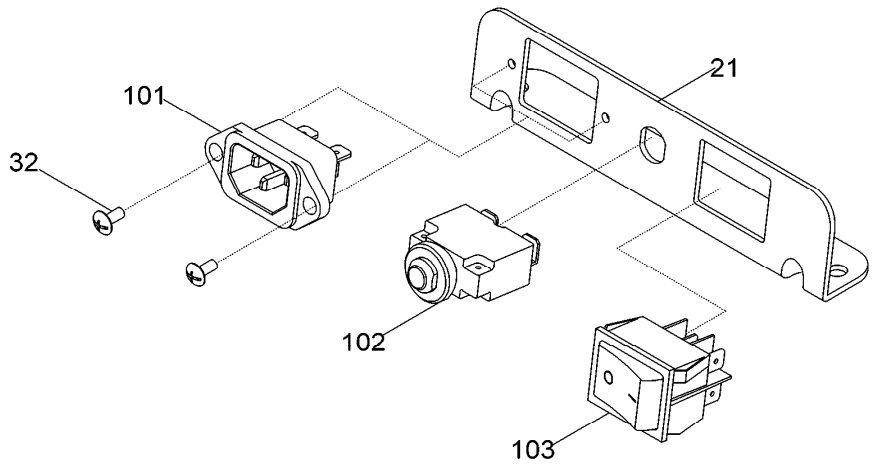


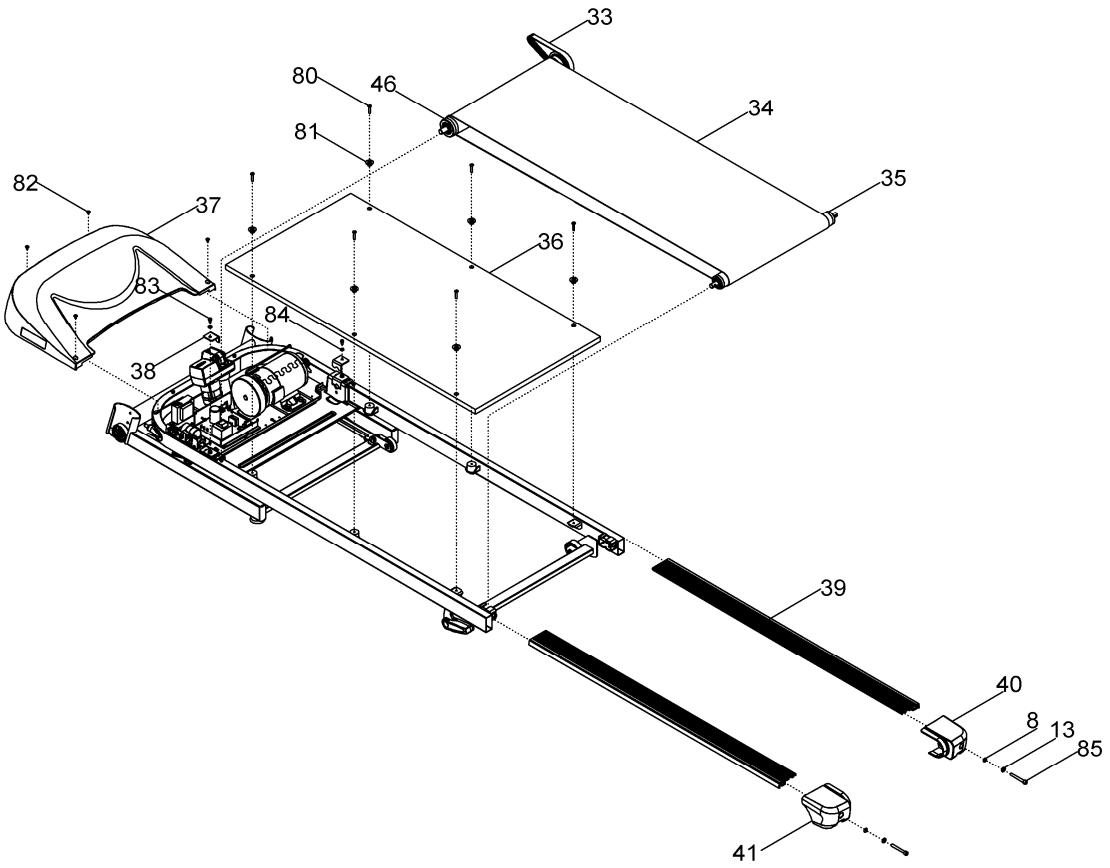


EXPLODED DRAWING T560(110V)

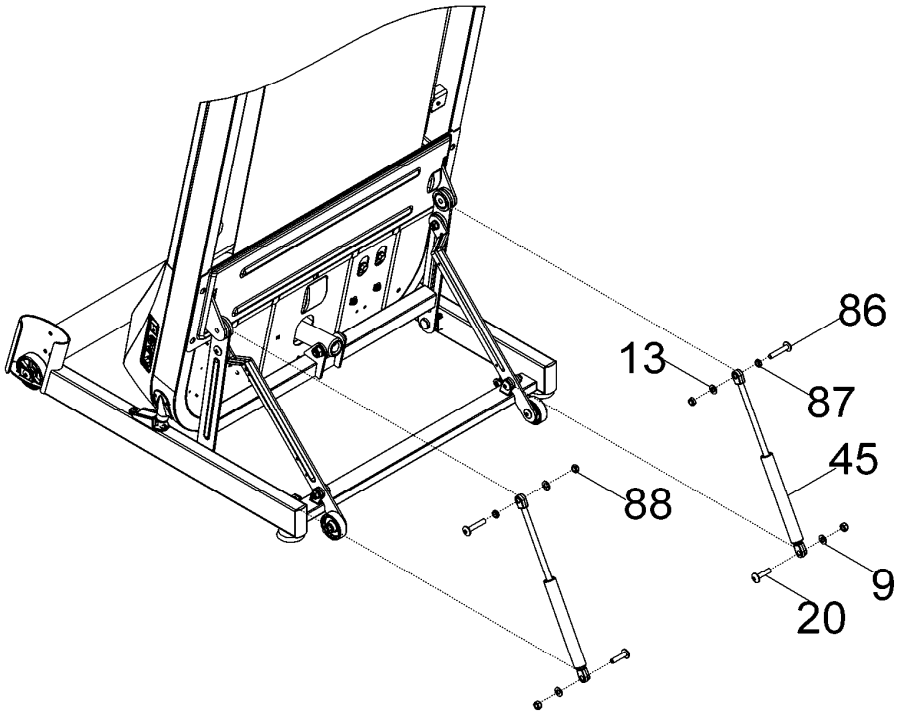


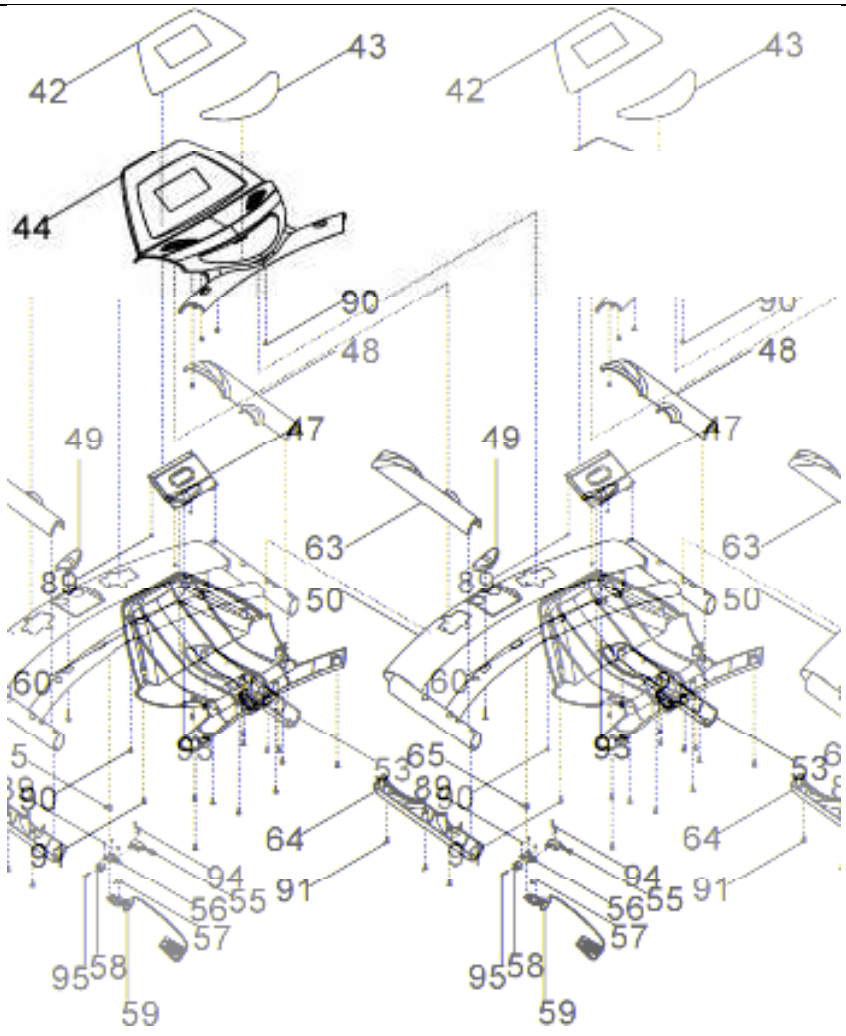
EXPLODED DRAWING T560(110V)

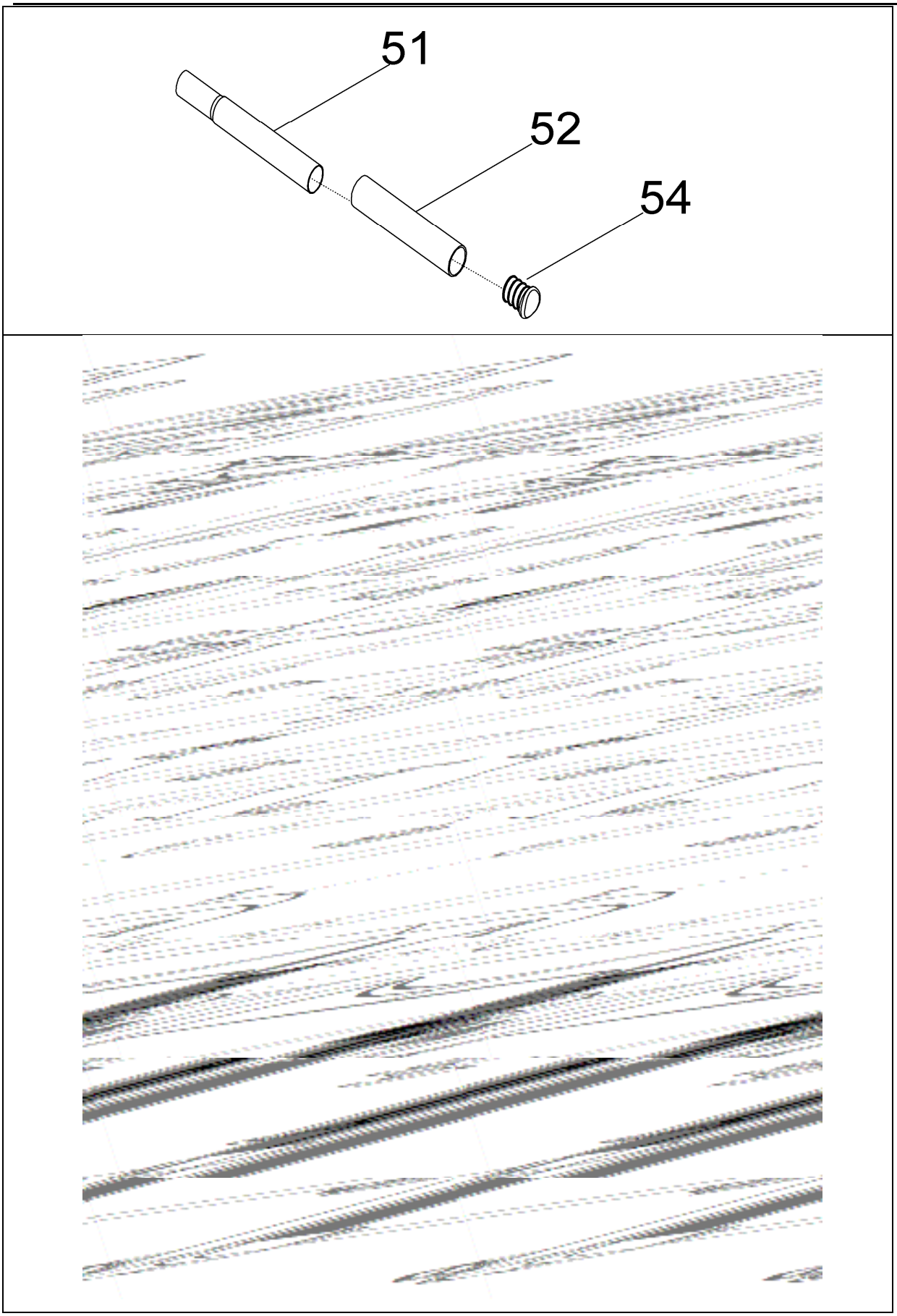




EXPLODED DRAWING T560(110V)



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EXPLODED DRAWING T560(110V)

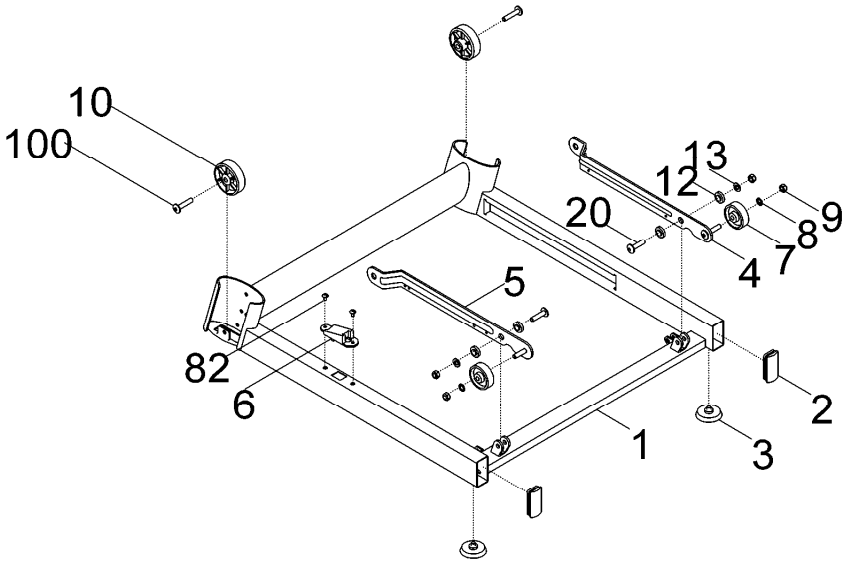
T560 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
1	Coating, frame, base	1
2	Cap, end, frame, base	2
3	Foot, front, frame, base	2
4	Coating, support, L	1
5	Coating, support, R	1
6	Stop, lock	1
7	Wheel, incline	2
8	Washer, star	6
9	Nut, nylon	10
10	Wheel, moving	1
11	Wheel, moving	1
12	Washer, roller	4
13	Washer, flat	15
14	Coating, frame, main	1
15	Cushion, deck	4
16	Shaft, release	1
17	Cap, pin, lock	1
18	Assy, pin, lock	1
19	Cap, pin, lock	1
20	Screw, dome	4
21	Coating, bracket, switch	1
22	Slider, track	2
23	Shaft, wheel, incline	2
24	Coating, frame, incline	1
25	Washer, frame, support	6
26	Motor(YC)	1
27	Sensor, speed, w/ cable	1
28	Assy, motor, incline, 110V	1
29	PCB, controller,110V	1
30	Assy, switch, 110V	1
31	Plating, bracket, motor	1
32	Screw, bottom-cut	2
33	Belt, drive	1
Explode drawing & part list 070808		

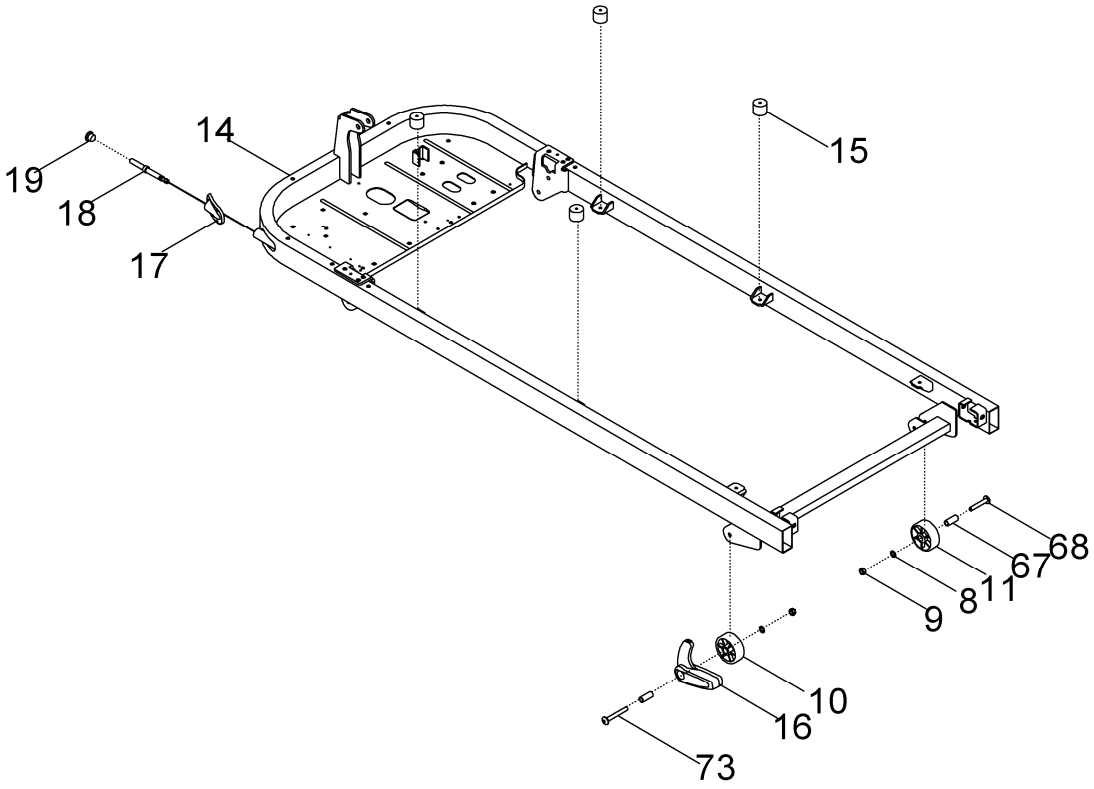
T560 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
34	Belt, running	1
35	Assy, roller, rear	1
36	Deck	1
37	Cover, motor	1
38	Bracket, stopper, R	2
39	Landing, side	2
40	Cap, frame, main, rear, L	1
41	Cap, frame, main, rear, R	1
42	Overlay, console	1
43	Overlay, membrane	1
44	Cover, base, console, top	1
45	Cylinder, hybrid	2
46	Assy, roller, front	1
47	PCB, console	1
48	Cover, handle, top, R	1
49	Contact, sensor	2
50	Coating, base, console	1
51	Coating, tube, bar, handle	2
52	Foam, bar, handle	2
53	Cover, handle, btm, R	1
54	Cap, handle	2
55	Switch, micro, positive-action	1
56	Plate, switch, micro	1
57	Chip, iron, key, safety	1
58	Cam, safety key	1
59	Key, safety	1
60	Cover, base, console, btm	1
61	Ring, upright	2
62	Coating, upright, L	1
63	Cover, handle, top, L	1
64	Cover, handle, btm, L	1
Explode drawing & part list 070808		

T560 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
65	Spring steel, cam, safety key	1
66	Coating, upright, R	1
67	Bushing, wheel, rear	2
68	Screw, dome	2
69	Screw, dome	2
70	Screw, flange	6
71	Screw, hex	1
72	WASHER,SPRING	2
73	Screw, dome	1
74	Washer, flat	2
75	Screw, hex	1
76	Screw, dome	4
77	Nut, nylon	2
78	Screw, hex	1
79	Bar, handle	2
80	Screw, countersunk	6
81	Bracket, landing, side	6
82	Screw, dome	10
83	Screw, socket	2
84	Washer, flat	2
85	Screw, socket	2
86	Screw, dome	2
87	Nut, Hex	2
88	Nut, nylon	2
89	Screw, dome	11
90	Screw, dome	14
91	Screw, dome	16
92	Screw, dome	4
93	Screw, dome	2
94	Screw, phillips	2
95	Axes, cam, safety key	1
96	Screw, dome	8
97	Washer, curve	6
Explode drawing & part list 070808		

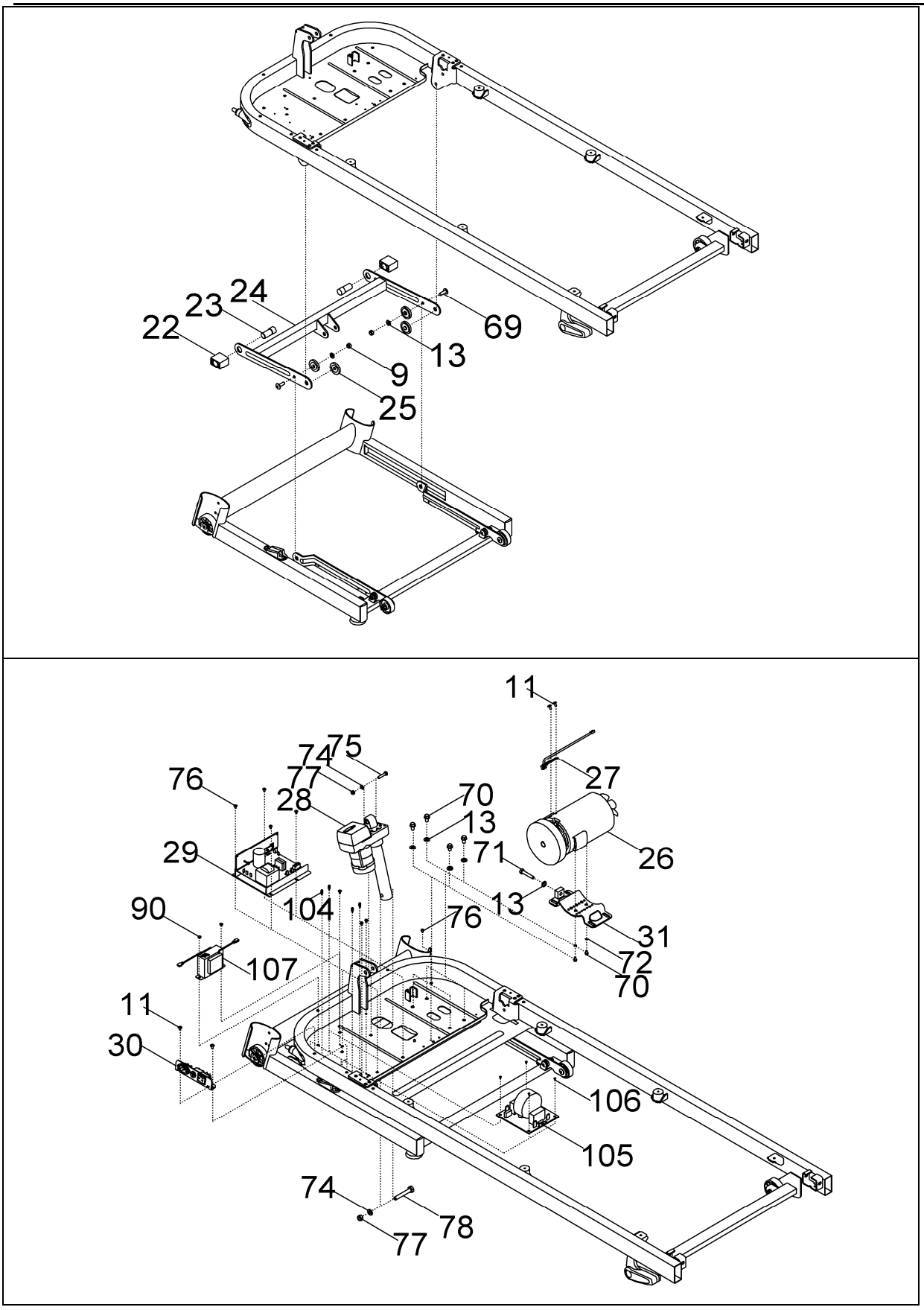
T560 (110V)		*Update: 2007.08.08*
98	Washer, star	6
99	Screw, dome	4
100	Screw, dome	2
101	Inlet, AC	1
102	Breaker, circuit, 110V	1
103	Switch, power	1
Explode drawing & part list 070808		

T560(230V) ***Update:2007.08.08***





EXPLODED DRAWING T560(230V)



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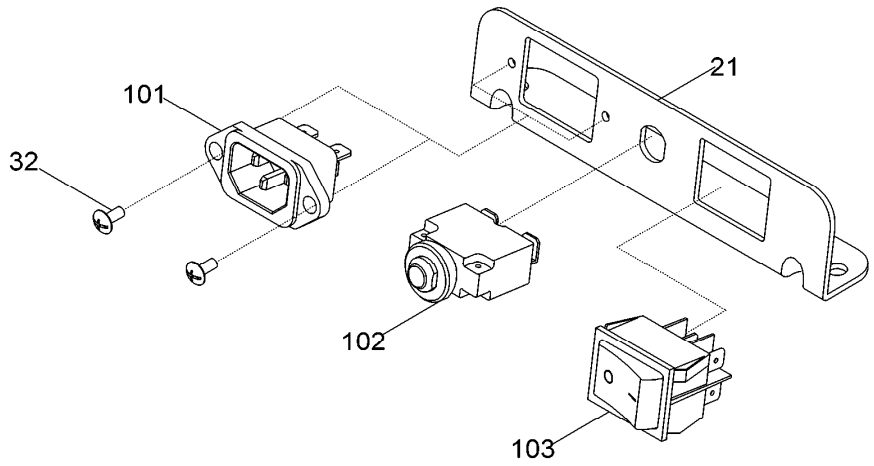
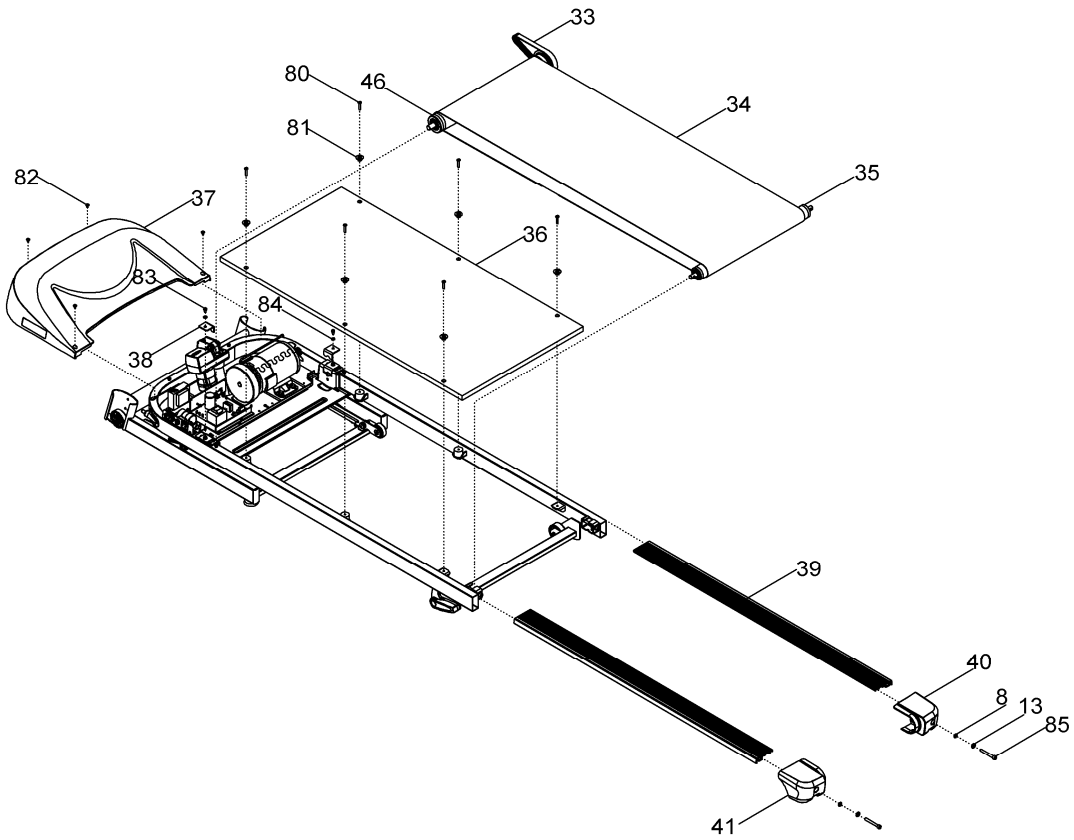
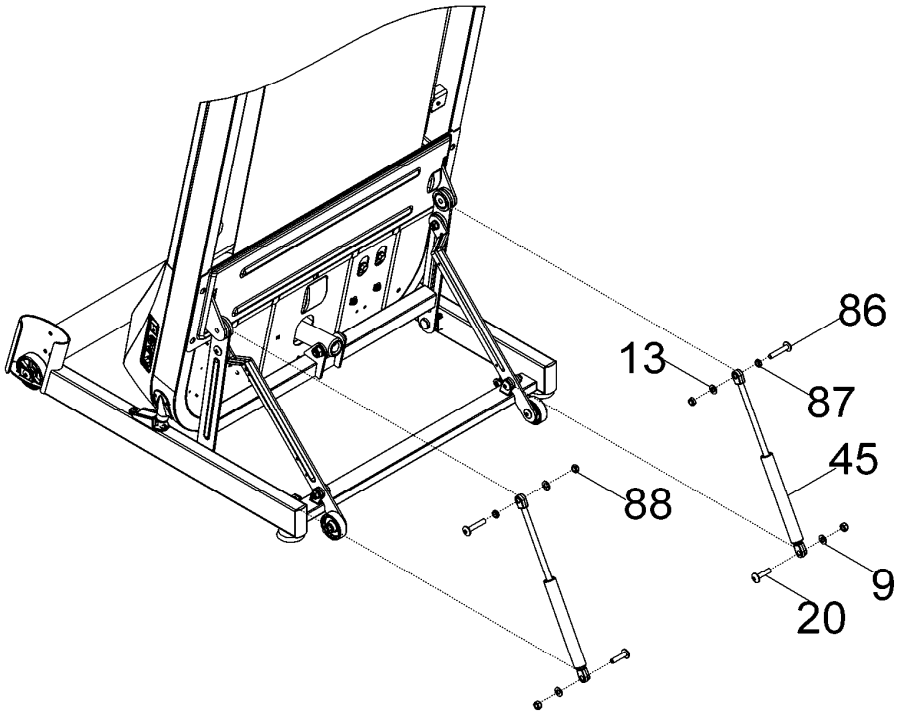
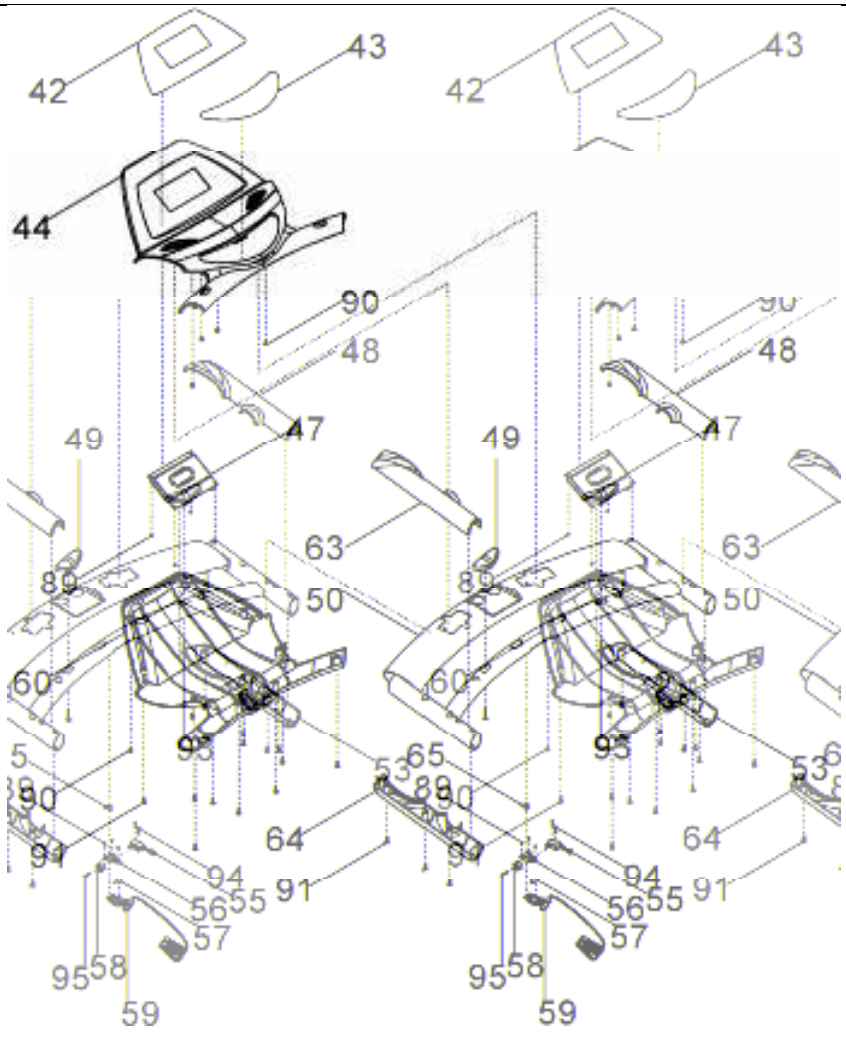
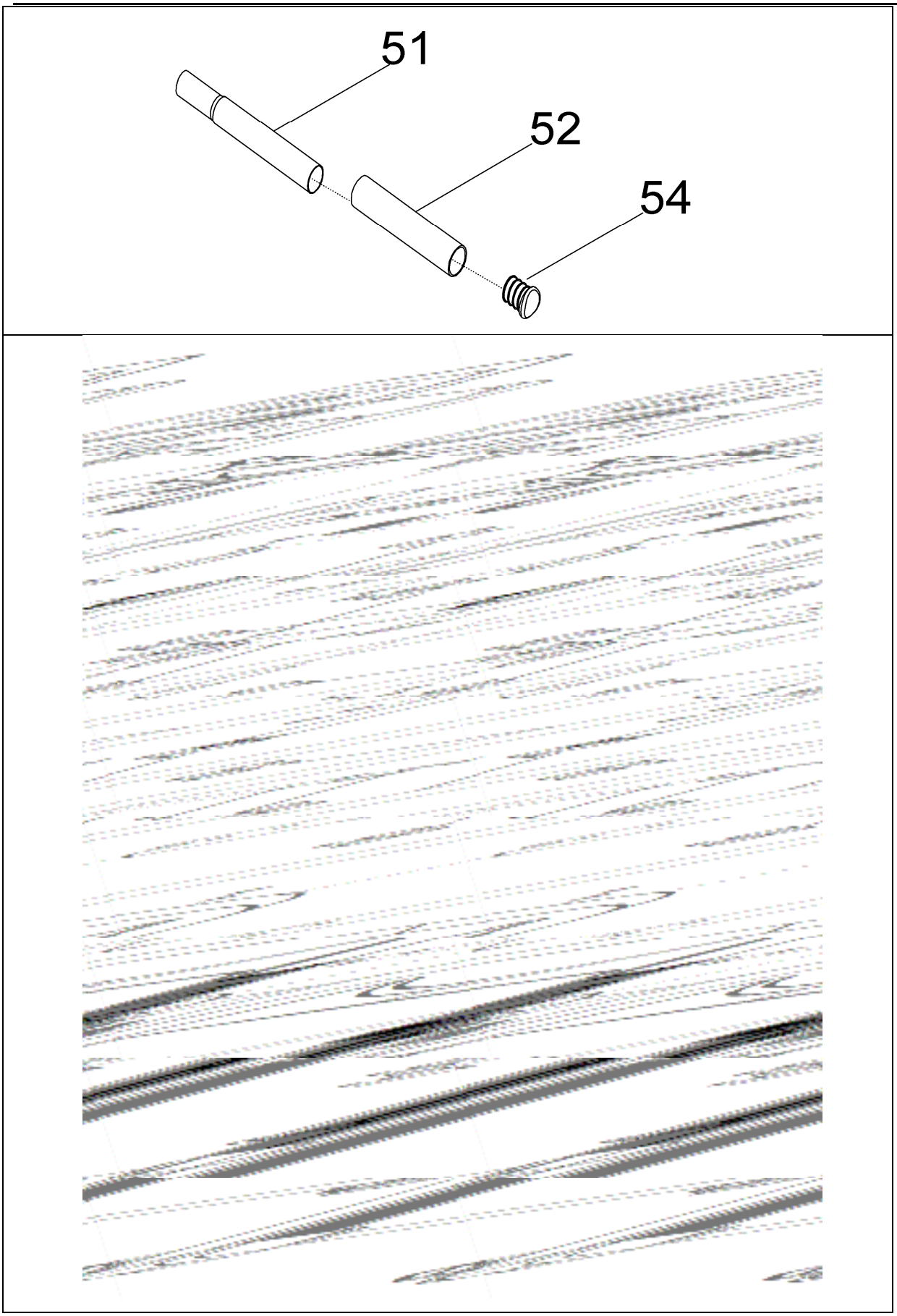




EXPLODED DRAWING T560(230V)



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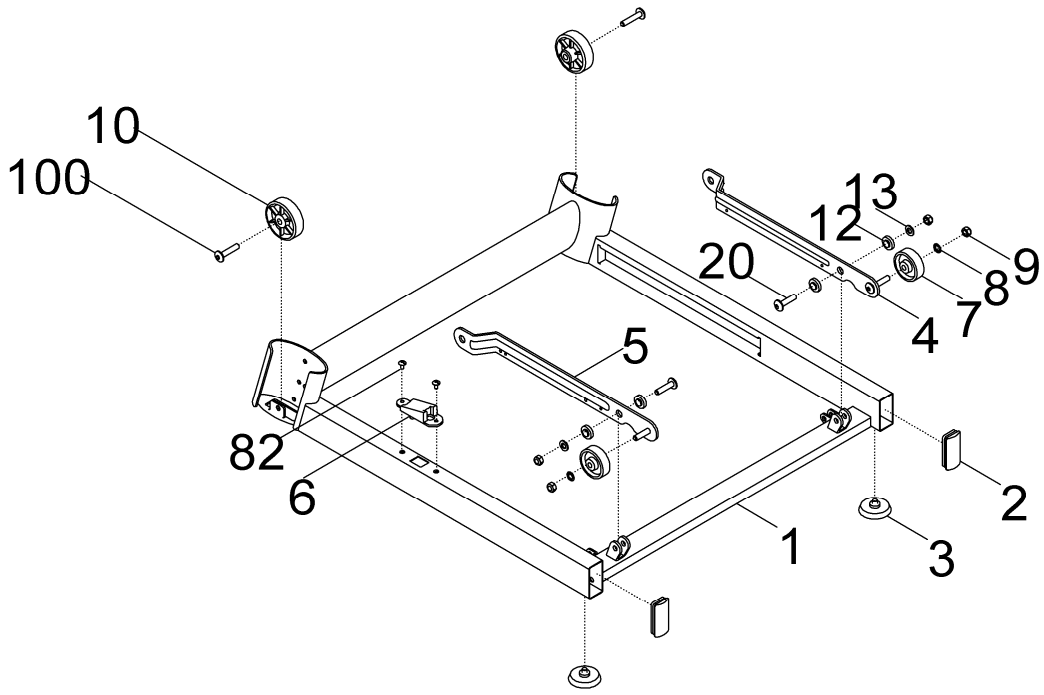
T560 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
1	Coating, frame, base	1
2	Cap, end, frame, base	2
3	Foot, front, frame, base	2
4	Bracket, support, L	1
5	Bracket, support, R	1
6	Stop, lock	1
7	Wheel, incline	2
8	Washer, star	6
9	Nut, nylon	10
10	Wheel, moving	1
11	Wheel, moving	1
12	Washer, roller	4
13	Washer, flat	15
14	Coating, frame, main	1
15	Cushion, deck	4
16	Shaft, release	1
17	Cap, pin, lock	1
18	Assy, pin, lock	1
19	Cap, pin, lock	1
20	Screw, dome	4
21	Coating, bracket, switch	1
22	Slider, track	2
23	Shaft, wheel, incline	2
24	Coating, frame, incline	1
25	Washer, frame, support	6
26	Motor(YC)	1
27	Sensor, speed, w/ cable	1
28	Assy, motor, incline, 110V	1
29	PCB, controller,110V	1
30	Assy, switch, 110V	1
31	Plating, bracket, motor	1
32	Screw, bottom-cut	2
33	Belt, drive	1
Explode drawing & part list 070808		

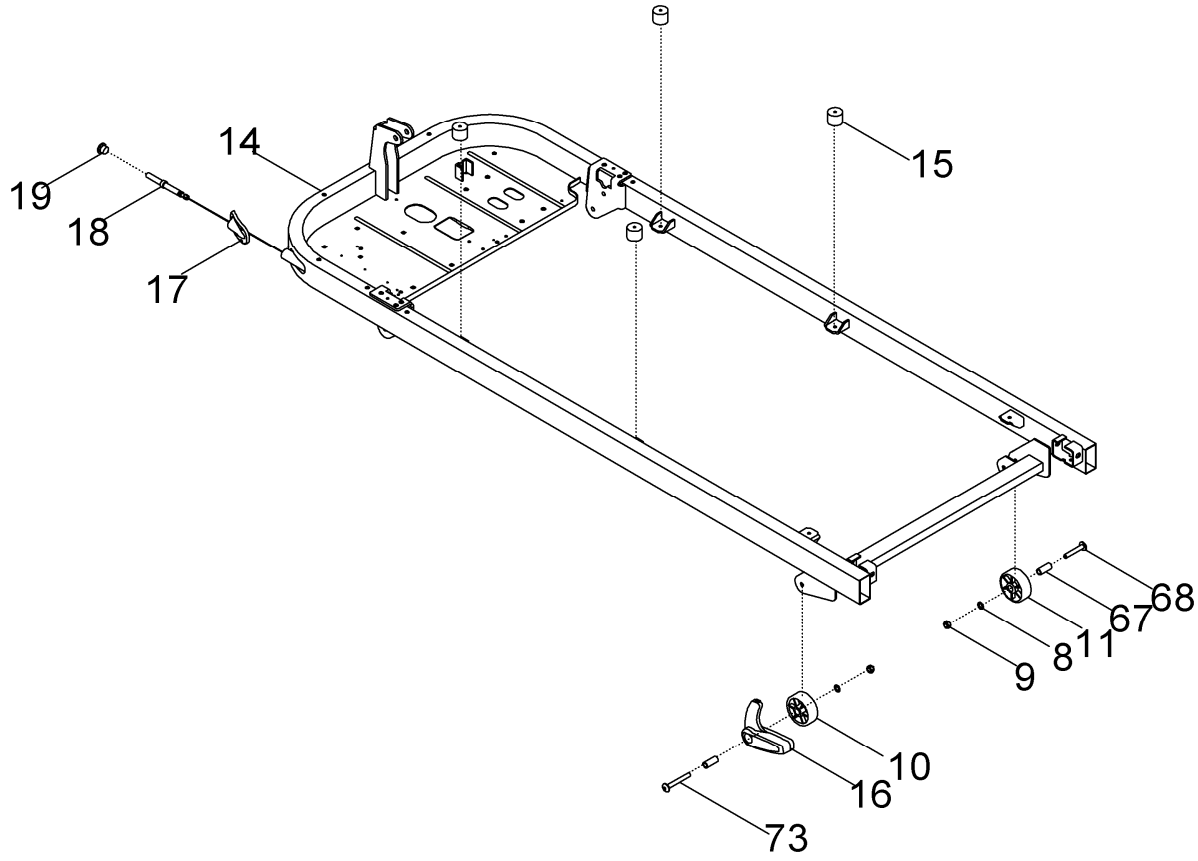
T560 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
34	Belt, running	1
35	Assy, roller, rear	1
36	Deck	1
37	Cover, motor	1
38	Bracket, stopper, R	2
39	Landing, side	2
40	Cap, frame, main, rear, L	1
41	Cap, frame, main, rear, R	1
42	Overlay, console	1
43	Overlay, membrane	1
44	Cover, base, console, top	1
45	Cylinder, hybrid	2
46	Assy, roller, front	1
47	PCB, console	1
48	Cover, handle, top, R	1
49	Contact, sensor	2
50	Weldment, base, console	1
51	Tube, bar, handle	2
52	Foam, bar, handle	2
53	Cover, handle, btm, R	1
54	Cap, handle	2
55	Switch, micro, positive-action	1
56	Plate, switch, micro	1
57	Chip, iron, key, safety	1
58	Cam, safety key	1
59	Key, safety	1
60	Cover, base, console, btm	1
61	Ring, upright	2
62	Coating, upright, L	1
63	Cover, handle, top, L	1
64	Cover, handle, btm, L	1
Explode drawing & part list 070808		

T560 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
65	Spring steel, cam, safety key	1
66	Coating, upright, R	1
67	Bushing, wheel, rear	2
68	Screw, dome	2
69	Screw, dome	2
70	Screw, flange	6
71	Screw, hex	1
72	WASHER,SPRING	2
73	Screw, dome	1
74	Washer, flat	2
75	Screw, hex	1
76	Screw, dome	4
77	Nut, nylon	2
78	Screw, hex	1
79	Bar, handle	2
80	Screw, countersunk	6
81	Bracket, landing, side	6
82	Screw, dome	10
83	Screw, socket	2
84	Washer, flat	2
85	Screw, socket	2
86	Screw, dome	2
87	Nut, Hex	2
88	Nut, nylon	2
89	Screw, dome	11
90	Screw, dome	14
91	Screw, dome	16
92	Screw, dome	4
93	Screw, dome	2
94	Screw, phillips	2
95	Axes, cam, safety key	1
96	Screw, dome	8
Explode drawing & part list 070808		

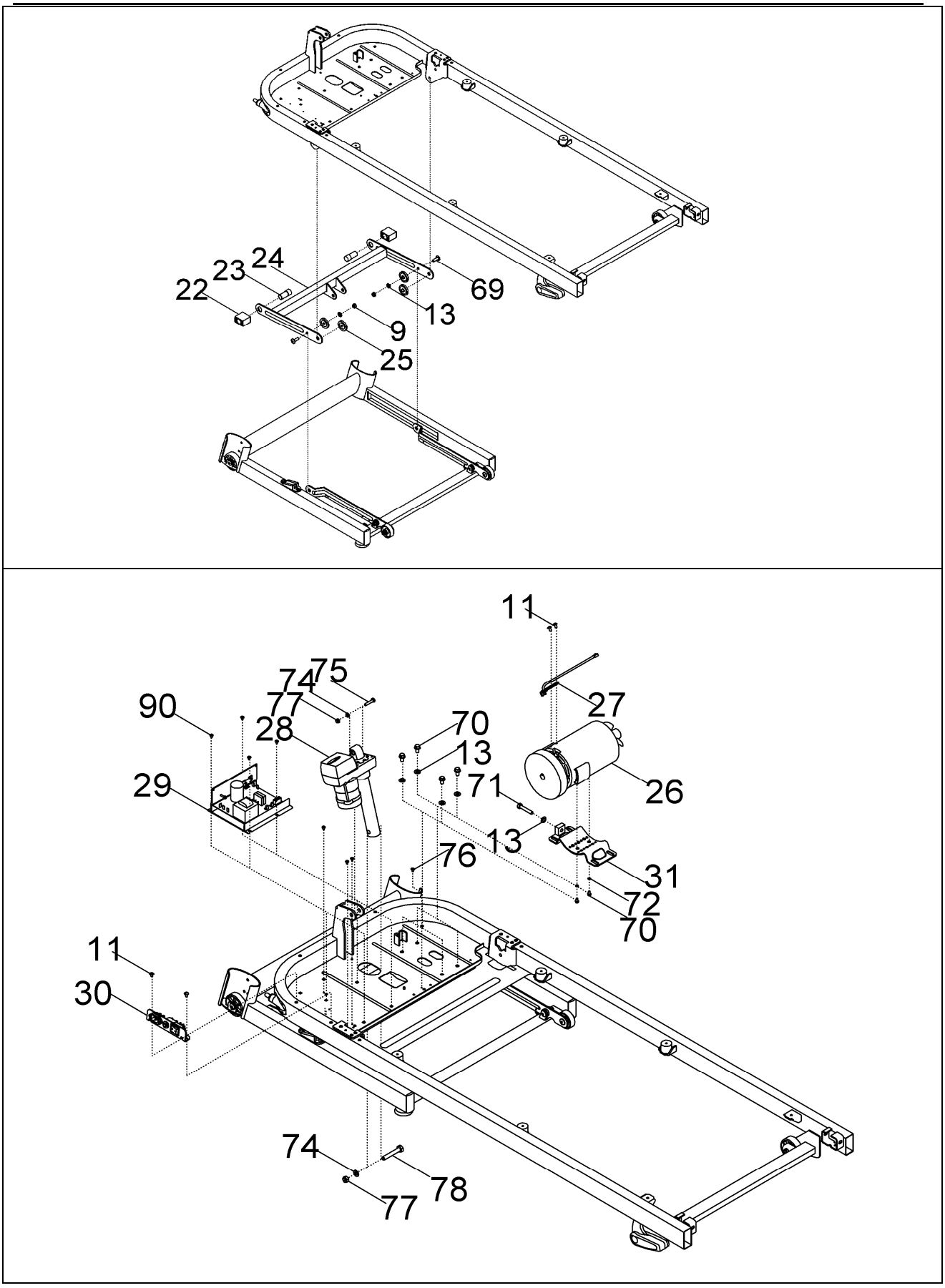
T560 (230V)		***Update: 2007.08.08***
97	Washer, curve	6
98	Washer, star	6
99	Screw, dome	4
100	Screw, dome	2
101	Inlet, AC	1
102	Breaker, circuit, 110V	1
103	Switch, power	1
104	Sleeve, screw	4
105	Filter	1
106	Screw, phillips	4
107	Choke	1
Explode drawing & part list 070808		

T561(110V) ***Update:2007.08.08***

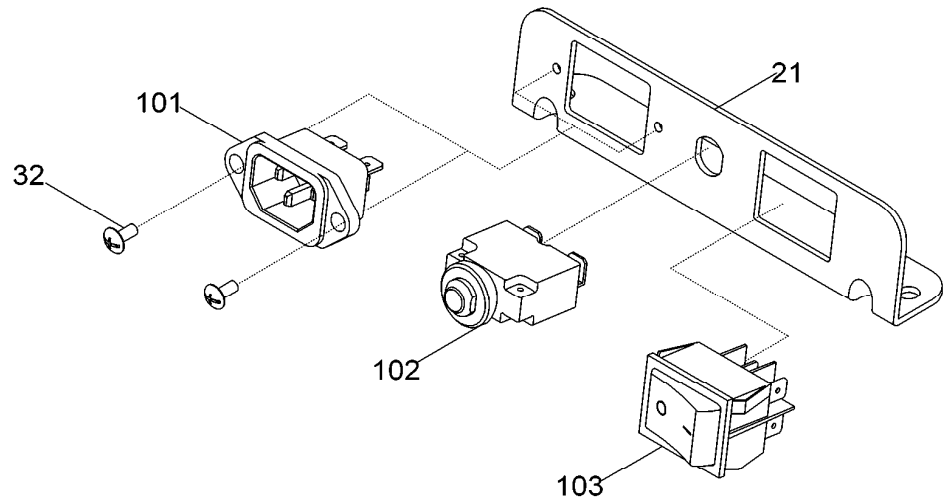


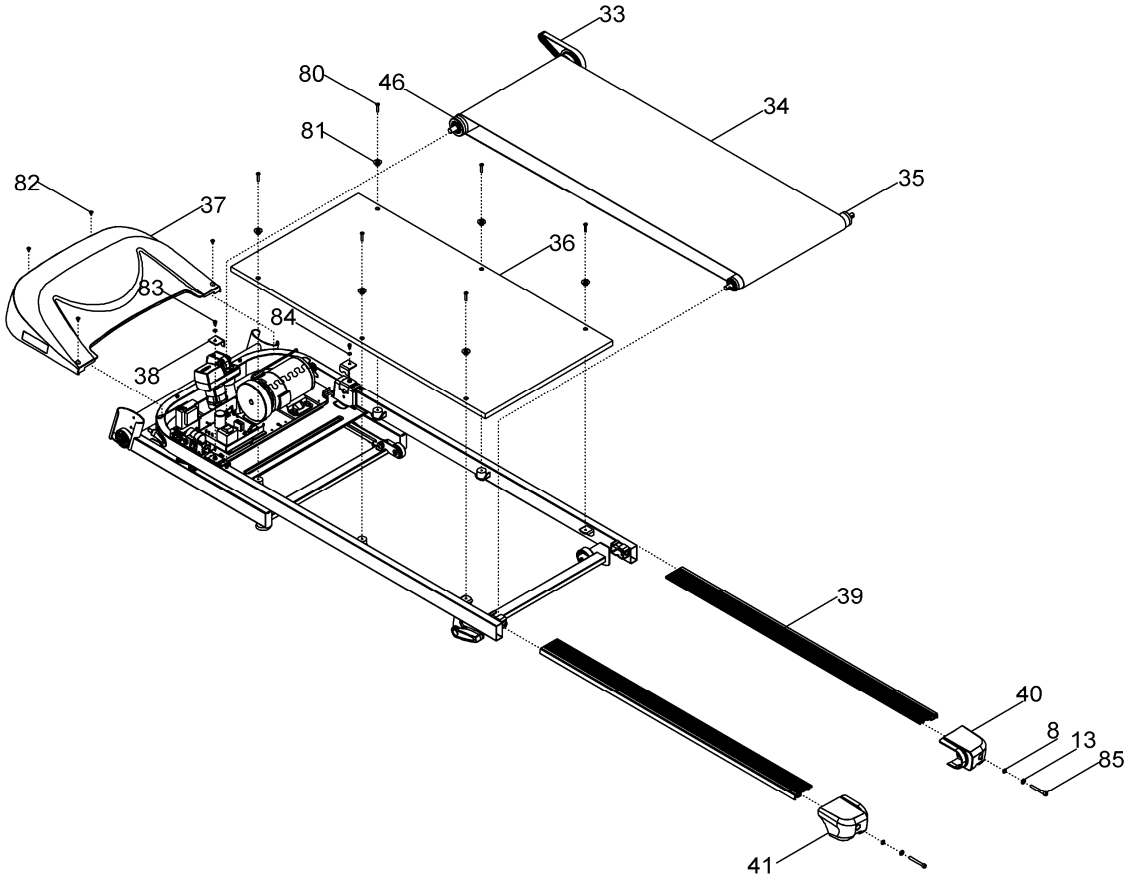


EXPLODED DRAWING T561(110V)

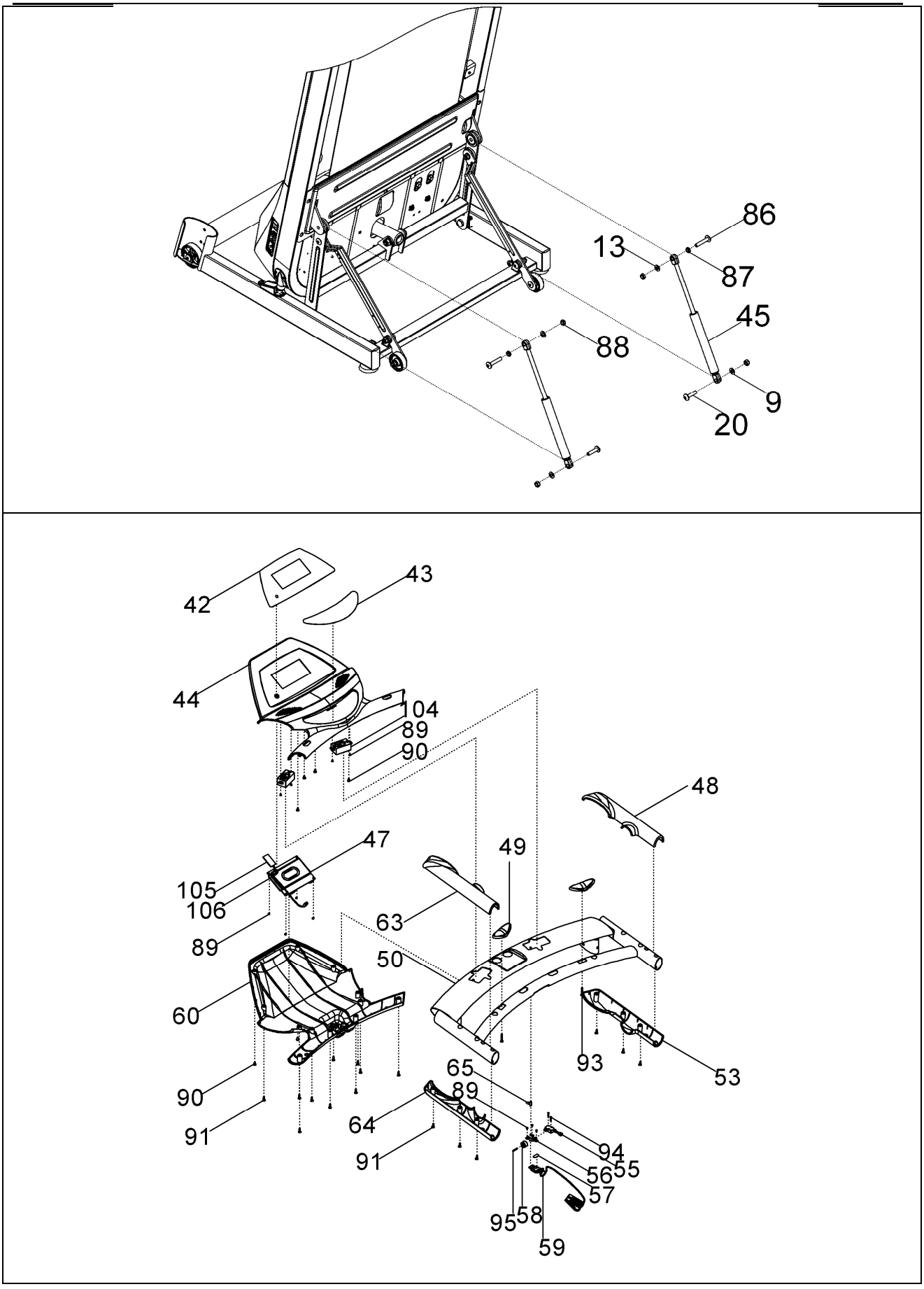


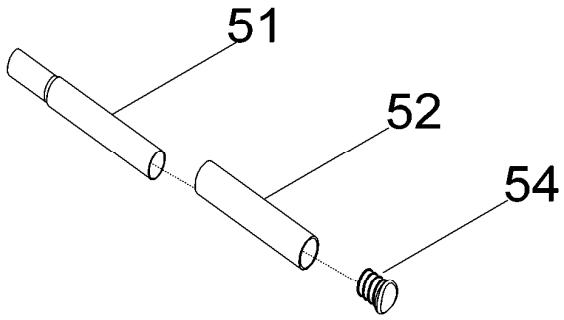
EXPLODED DRAWING T561(110V)





EXPLODED DRAWING T561(110V)

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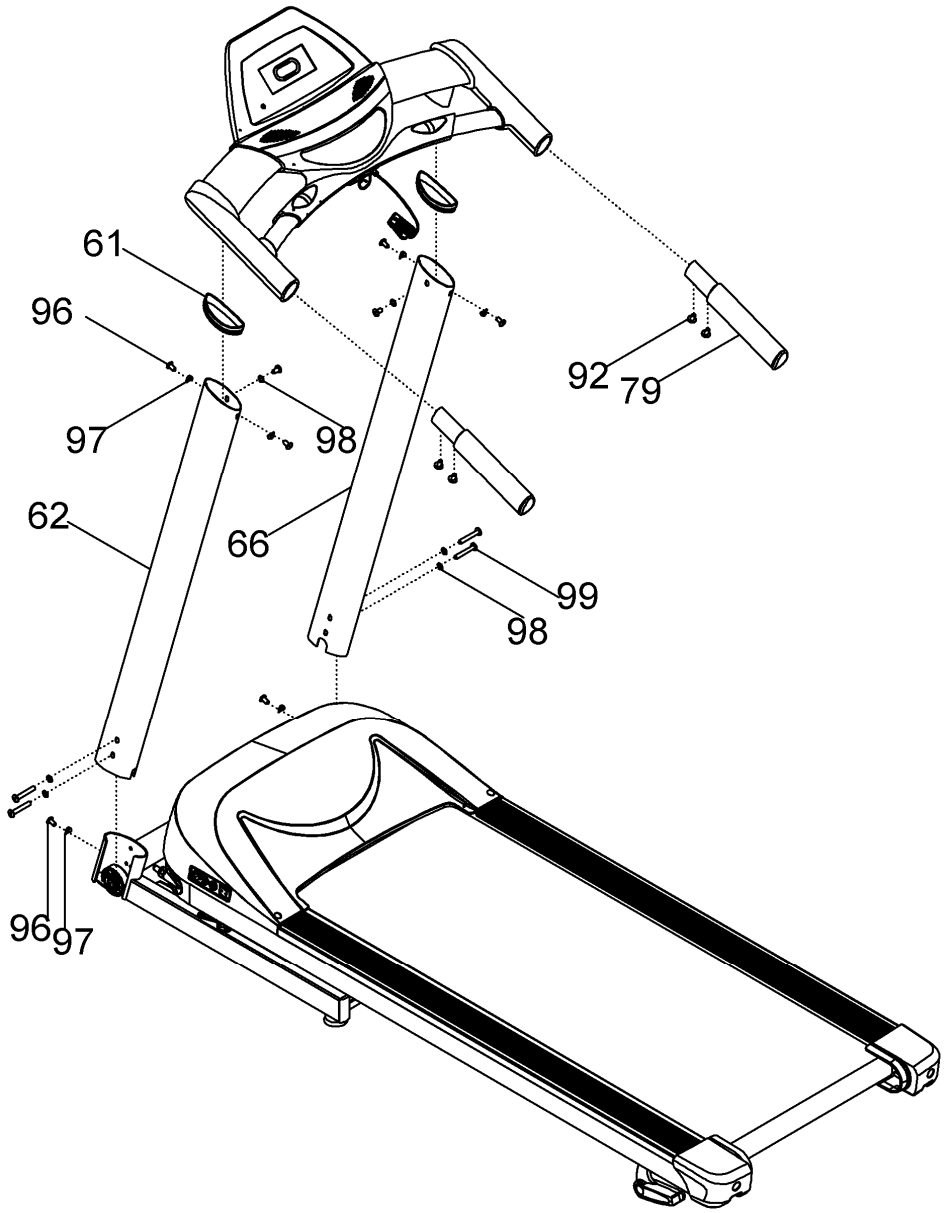
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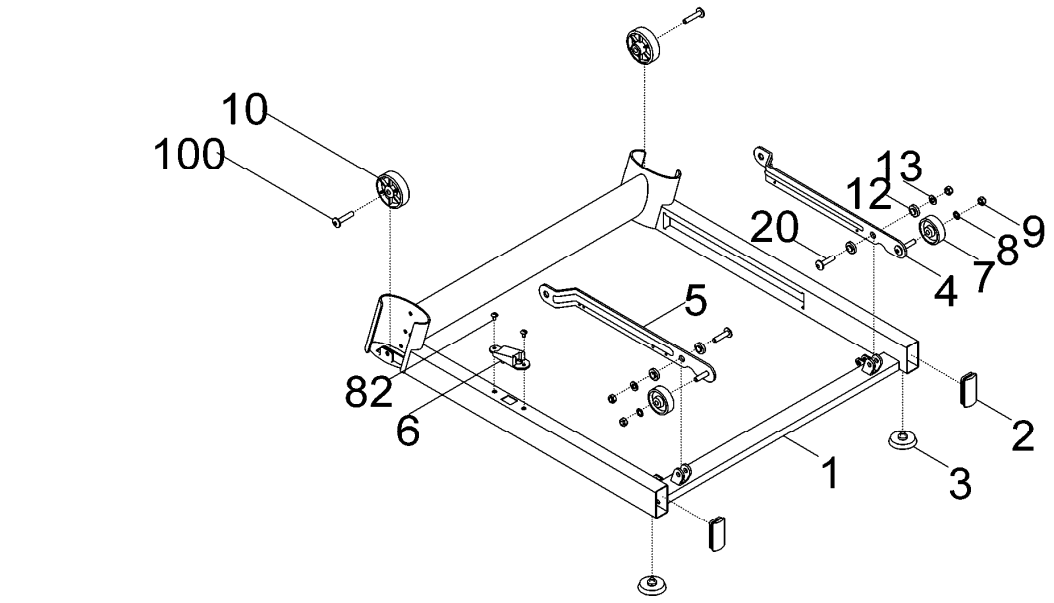
T561 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
1	Coating, frame, base	1
2	Cap, end, frame, base	2
3	Foot, front, frame, base	2
4	Coating, support, L	1
5	Coating, support, R	1
6	Stop, lock	1
7	Wheel, incline	2
8	Washer, star	6
9	Nut, nylon	10
10	Wheel, moving	1
11	Wheel, moving	1
12	Washer, roller	4
13	Washer, flat	15
14	Coating, frame, main	1
15	Cushion, deck	4
16	Shaft, release	1
17	Cap, pin, lock	1
18	Assy, pin, lock	1
19	Cap, pin, lock	1
20	Screw, dome	4
21	Coating, bracket, switch	1
22	Slider, track	2
23	Shaft, wheel, incline	2
24	Coating, frame, incline	1
25	Washer, frame, support	6
26	Motor(YC)	1
27	Sensor, speed, w/ cable	1
28	Assy, motor, incline, 110V	1
29	PCB, controller,110V	1
30	Assy, switch, 110V	1
31	Plating, bracket, motor	1
32	Screw, bottom-cut	2
33	Belt, drive	1
Explode drawing & part list 070808		

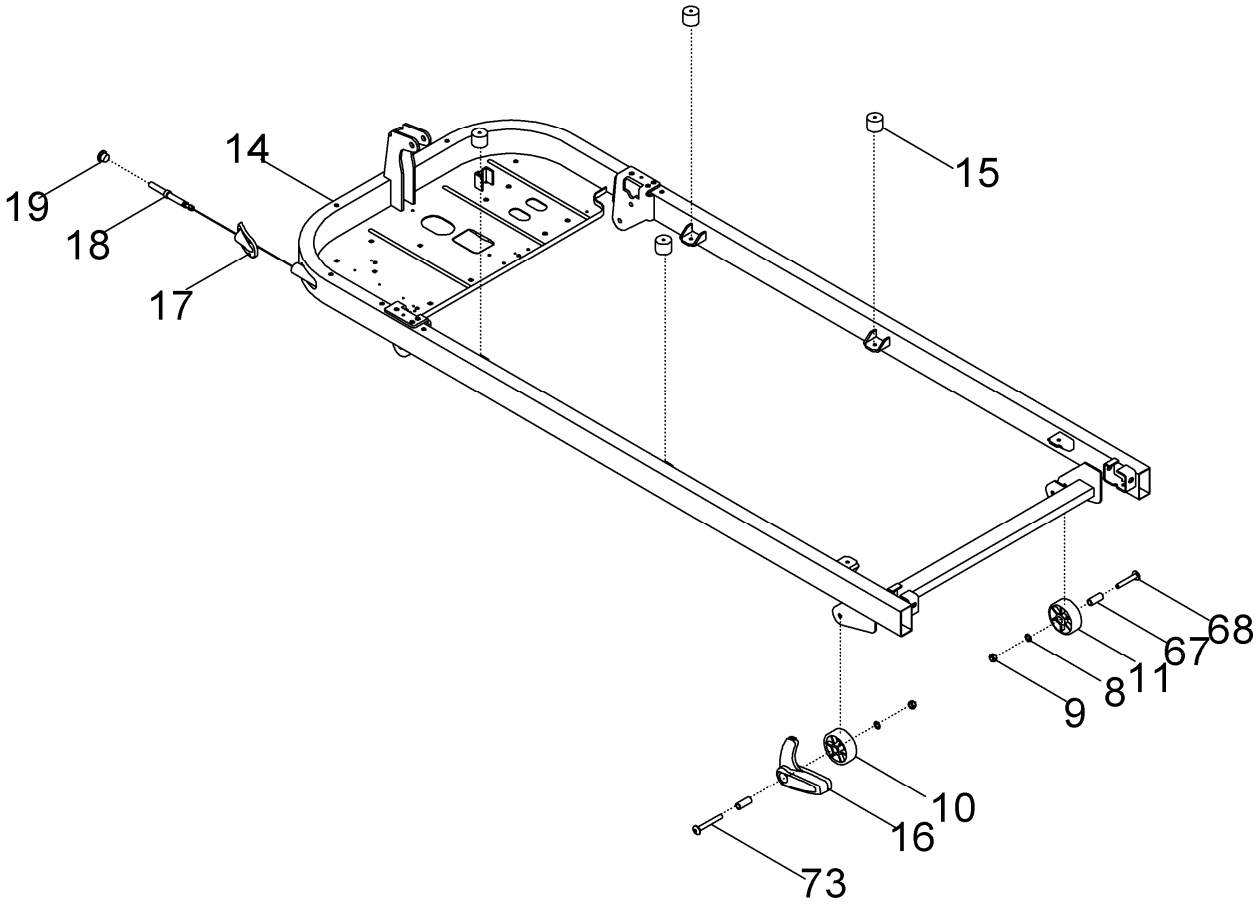
T561 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
34	Belt, running	1
35	Assy, roller, rear	1
36	Deck	1
37	Cover, motor	1
38	Bracket, stopper, R	2
39	Landing, side	2
40	Cap, frame, main, rear, L	1
41	Cap, frame, main, rear, R	1
42	Overlay, console	1
43	Overlay, membrane	1
44	Cover, base, console, top	1
45	Cylinder, hybrid	2
46	Assy, roller, front	1
47	PCB, console	1
48	Cover, handle, top, R	1
49	Contact, sensor	2
50	Coating, base, console	1
51	Coating, tube, bar, handle	2
52	Foam, bar, handle	2
53	Cover, handle, btm, R	1
54	Cap, handle	2
55	Switch, micro, positive-action	1
56	Plate, switch, micro	1
57	Chip, iron, key, safety	1
58	Cam, safety key	1
59	Key, safety	1
60	Cover, base, console, btm	1
61	Ring, upright	2
62	Coating, upright, L	1
63	Cover, handle, top, L	1
64	Cover, handle, btm, L	1
Explode drawing & part list 070808		

T561 (110V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
65	Spring steel, cam, safety key	1
66	Coating, upright, R	1
67	Bushing, wheel, rear	2
68	Screw, dome	2
69	Screw, dome	2
70	Screw, flange	6
71	Screw, hex	1
72	WASHER,SPRING	2
73	Screw, dome	1
74	Washer, flat	2
75	Screw, hex	1
76	Screw, dome	4
77	Nut, nylon	2
78	Screw, hex	1
79	Bar, handle	2
80	Screw, countersunk	6
81	Bracket, landing, side	6
82	Screw, dome	10
83	Screw, socket	2
84	Washer, flat	2
85	Screw, socket	2
86	Screw, dome	2
87	Nut, Hex	2
88	Nut, nylon	2
89	Screw, dome	11
90	Screw, dome	14
91	Screw, dome	16
92	Screw, dome	4
93	Screw, dome	2
94	Screw, phillips	2
95	Axes, cam, safety key	1
96	Screw, dome	8
Explode drawing & part list 070808		

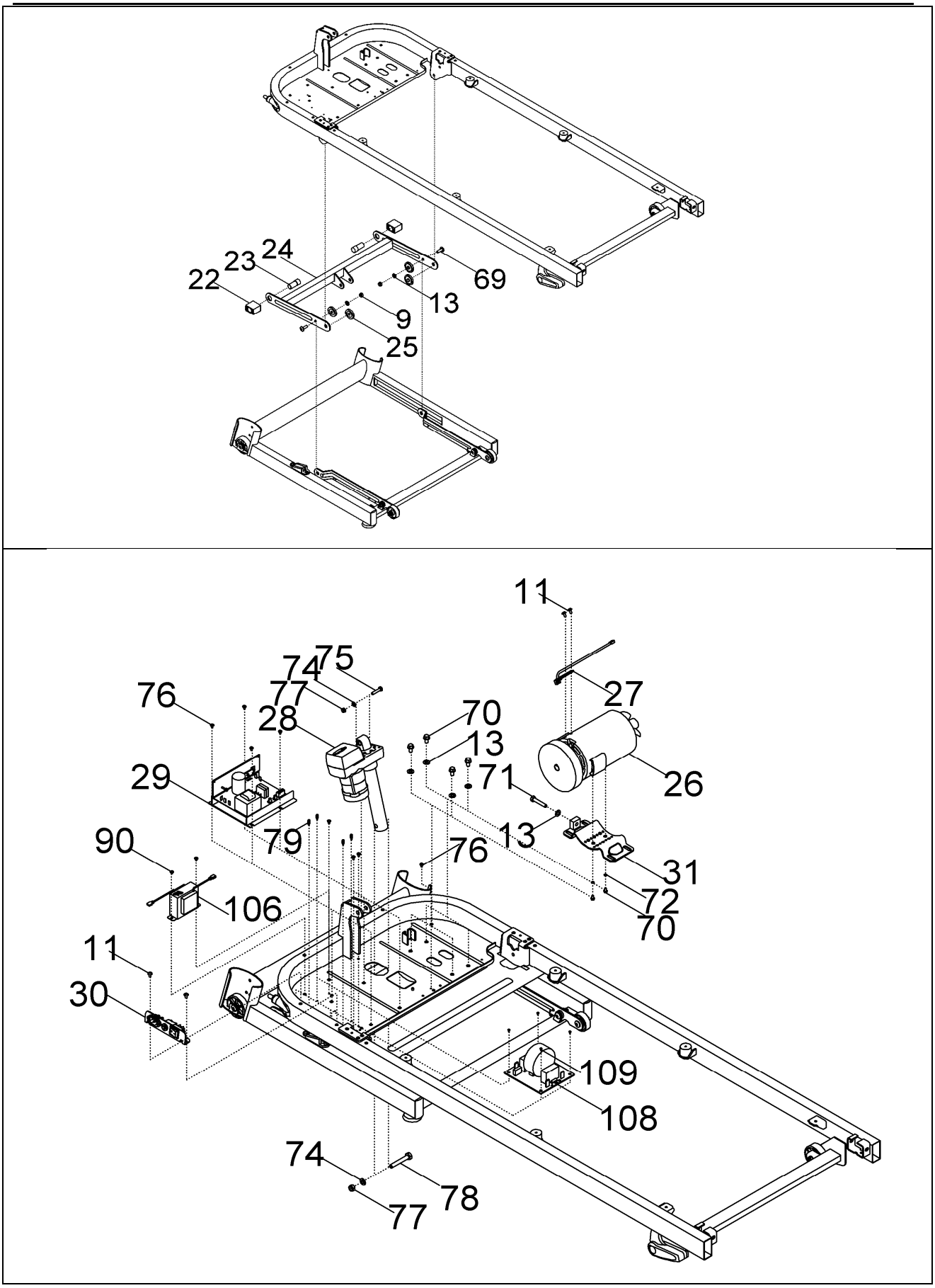
T561 (110V)		***Update: 2007.08.08***
97	Washer, curve	6
98	Washer, star	6
99	Screw, dome	4
100	Screw, dome	2
101	Inlet, AC	1
102	Breaker, circuit, 110V	1
103	Switch, power	1
104	Speaker	2
105	Board, receiver, wireless	1
106	Cable, MP3/CD,console	1
Explode drawing & part list 070808		

T561(230V) ***Update:2007.08.08***





EXPLODED DRAWING T561(230V)



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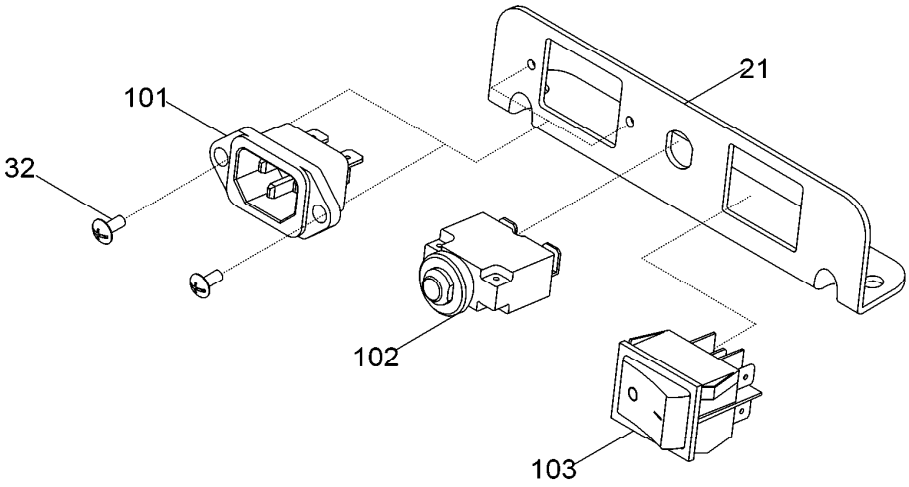

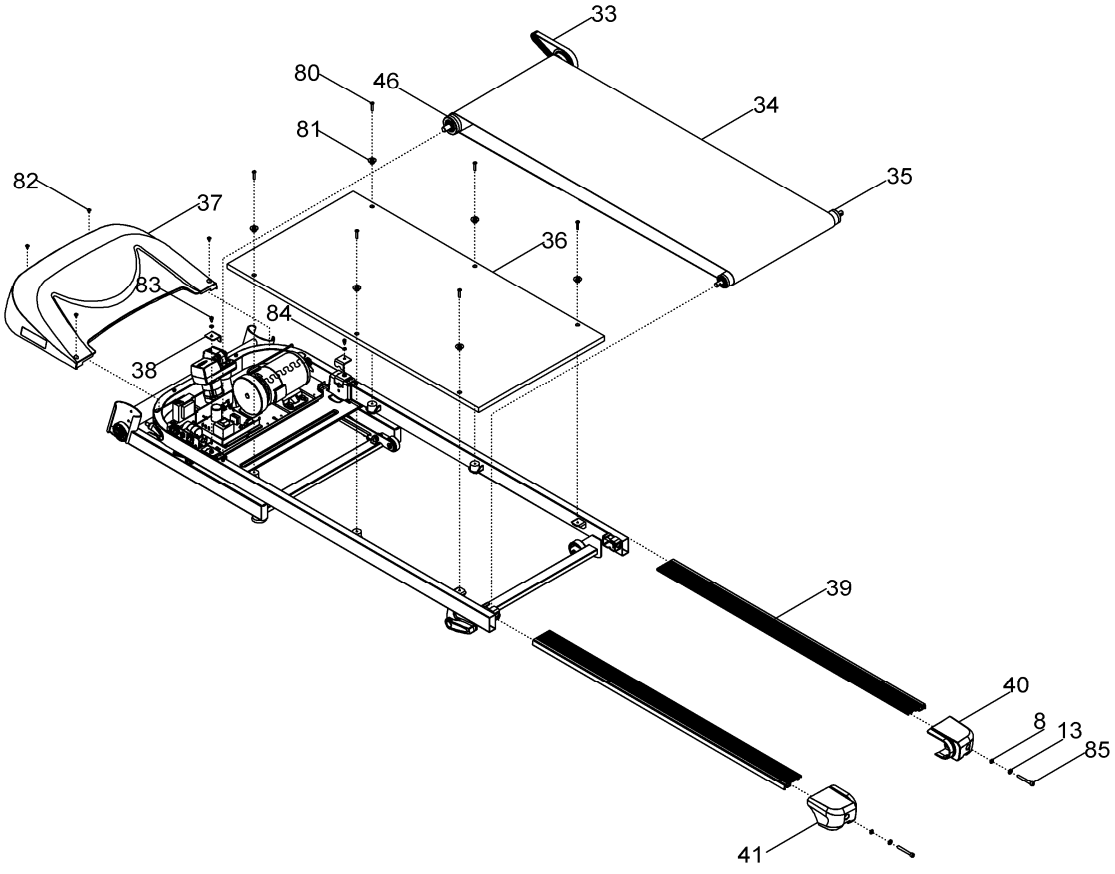

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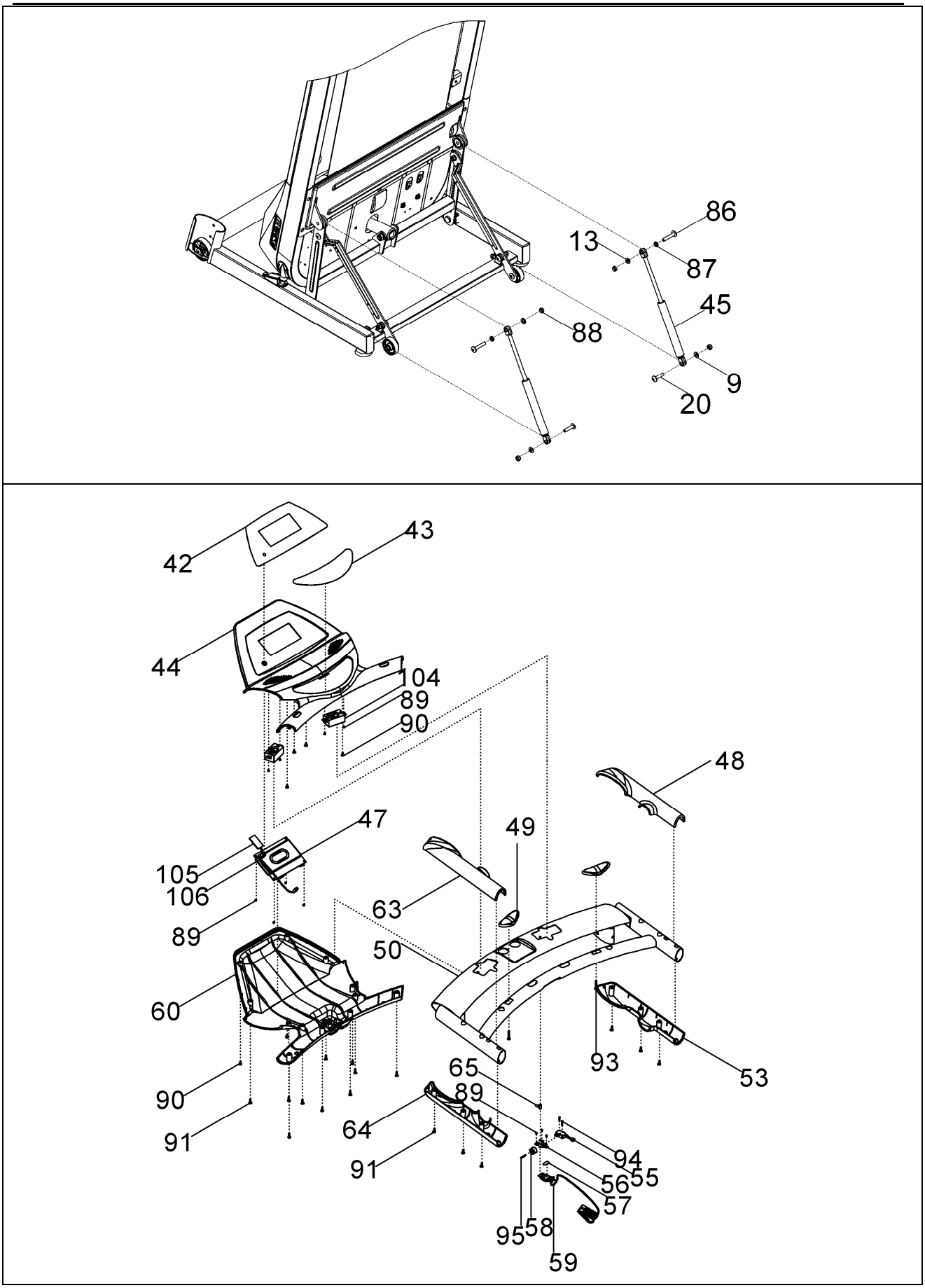
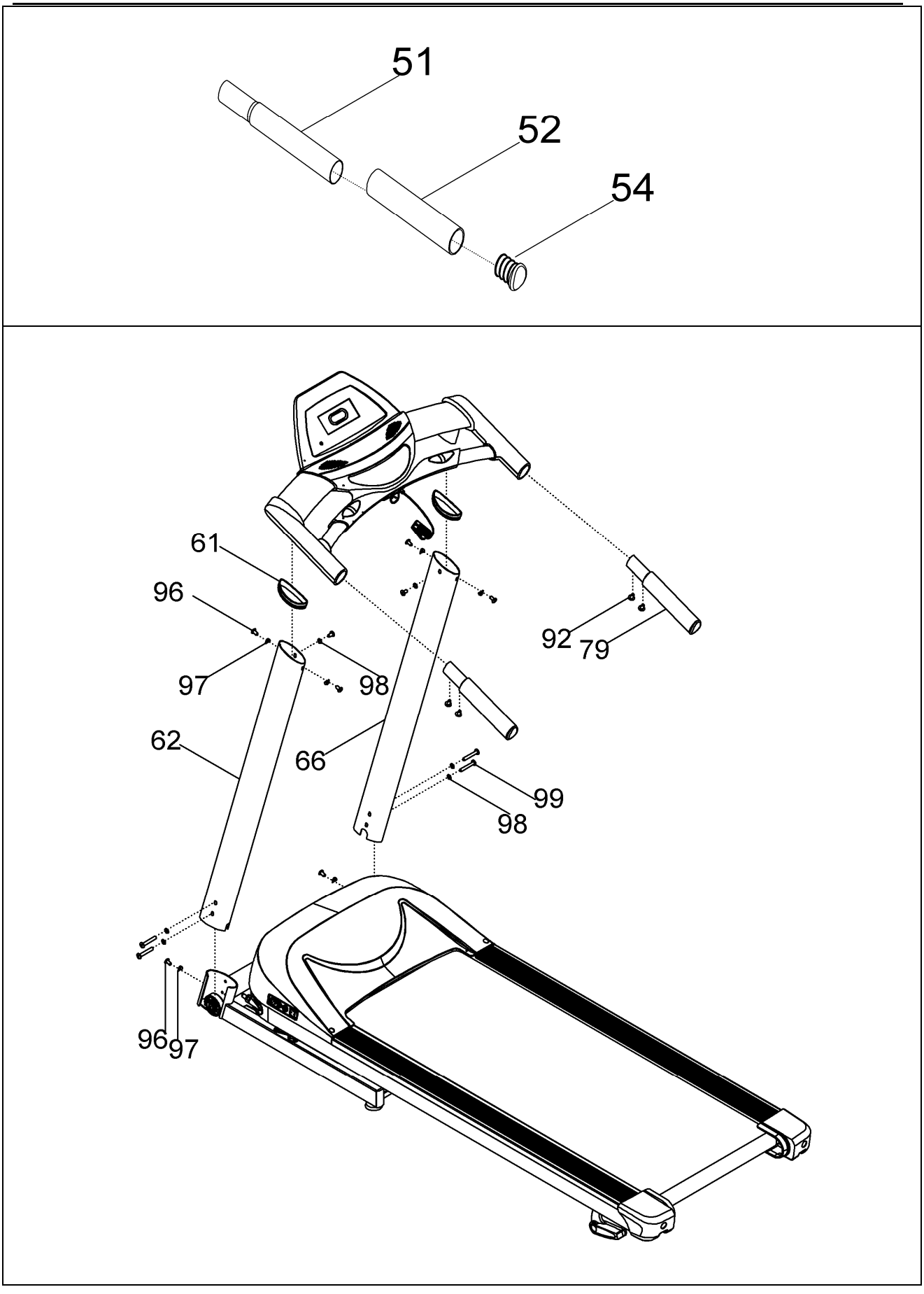


EXPLODED DRAWING T561(230V)



T561 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
1	Coating, frame, base	1
2	Cap, end, frame, base	2
3	Foot, front, frame, base	2
4	Bracket, support, L	1
5	Bracket, support, R	1
6	Stop, lock	1
7	Wheel, incline	2
8	Washer, star	6
9	Nut, nylon	10
10	Wheel, moving	1
11	Wheel, moving	1
12	Washer, roller	4
13	Washer, flat	15
14	Coating, frame, main	1
15	Cushion, deck	4
16	Shaft, release	1
17	Cap, pin, lock	1
18	Assy, pin, lock	1
19	Cap, pin, lock	1
20	Screw, dome	4
21	Coating, bracket, switch	1
22	Slider, track	2
23	Shaft, wheel, incline	2
24	Coating, frame, incline	1
25	Washer, frame, support	6
26	Motor(YC)	1
27	Sensor, speed, w/ cable	1
28	Assy, motor, incline, 110V	1
29	PCB, controller,110V	1
30	Assy, switch, 110V	1
31	Plating, bracket, motor	1
32	Screw, bottom-cut	2
33	Belt, drive	1
Explode drawing & part list 070808		

T561 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
34	Belt, running	1
35	Assy, roller, rear	1
36	Deck	1
37	Cover, motor	1
38	Bracket, stopper, R	2
39	Landing, side	2
40	Cap, frame, main, rear, L	1
41	Cap, frame, main, rear, R	1
42	Overlay, console	1
43	Overlay, membrane	1
44	Cover, base, console, top	1
45	Cylinder, hybrid	2
46	Assy, roller, front	1
47	PCB, console	1
48	Cover, handle, top, R	1
49	Contact, sensor	2
50	Weldment, base, console	1
51	Tube, bar, handle	2
52	Foam, bar, handle	2
53	Cover, handle, btm, R	1
54	Cap, handle	2
55	Switch, micro, positive-action	1
56	Plate, switch, micro	1
57	Chip, iron, key, safety	1
58	Cam, safety key	1
59	Key, safety	1
60	Cover, base, console, btm	1
61	Ring, upright	2
62	Coating, upright, L	1
63	Cover, handle, top, L	1
64	Cover, handle, btm, L	1
Explode drawing & part list 070808		

T561 (230V)		*Update: 2007.08.08*
ITEM No.	**PARTS DESCRIPTION**	**QTY.**
65	Spring steel, cam, safety key	1
66	Coating, upright, R	1
67	Bushing, wheel, rear	2
68	Screw, dome	2
69	Screw, dome	2
70	Screw, flange	6
71	Screw, hex	1
72	WASHER,SPRING	2
73	Screw, dome	1
74	Washer, flat	2
75	Screw, hex	1
76	Screw, dome	4
77	Nut, nylon	2
78	Screw, hex	1
79	Bar, handle	2
80	Screw, countersunk	6
81	Bracket, landing, side	6
82	Screw, dome	10
83	Screw, socket	2
84	Washer, flat	2
85	Screw, socket	2
86	Screw, dome	2
87	Nut, Hex	2
88	Nut, nylon	2
89	Screw, dome	11
90	Screw, dome	14
91	Screw, dome	16
92	Screw, dome	4
93	Screw, dome	2
94	Screw, phillips	2
95	Axes, cam, safety key	1
96	Screw, dome	8
Explode drawing & part list 070808		

T561 (230V)		***Update: 2007.08.08***
97	Washer, curve	6
98	Washer, star	6
99	Screw, dome	4
100	Screw, dome	2
101	Inlet, AC	1
102	Breaker, circuit, 110V	1
103	Switch, power	1
104	Speaker	2
105	Board, receiver, wireless	1
106	Cable, MP3/CD,console	1
107	Sleeve, screw	4
108	Filter	1
109	Screw, phillips	4
110	Choke	1
Explode drawing & part list 070808		

NOTES:

SECTION VI

MISCELLANEOUS INFORMATION

Preventive Maintenance Schedule

ITEM	WEEKLY	MONTHLY	QUARTERLY	BI-ANNUAL	ANNUAL
DISPLAY CONSOLE ASSEMBLEY					
Hardware				Inspect	
Overlay	Clean			Inspect	
Emergency Switch/Key	Clean			Inspect	
HANDLEBAR ASSEMBLY					
Hardware				Inspect	
Handlebar				Inspect	
Side Hand Rails				Inspect	
FRAME ASSEMBLY					
Hardware				Inspect	
Motor Cover	Clean				
Drive Belt				Inspect	
Front Roller				Inspect	
Rear Roller				Inspect	

CAUTION: For your own safety, be sure to fold up the deck before removing the treadmill from the carton.

1. Remove the computer console box and uprights set carefully.

2. Remove all the packaging materials.

3. Find and read the assembly instructions before assembling the treadmill.

4. Assemble the treadmill according to assembly instructions.

5. Fold up and move out the treadmill from carton packaging.

IMPORTANT SAFETY INSTRUCTIONS !

⇒ ***DO NOT*** *position the rear of the treadmill within 6 feet (2 meter) of the nearest obstruction. The sides of the treadmill should maintain a minimum clearance of 8 inches (20 cm) from the nearest treadmill or other obstruction.*

⇒ ***DO NOT*** *locate the treadmill outdoors, near swimming pools, or in areas of high humidity.*

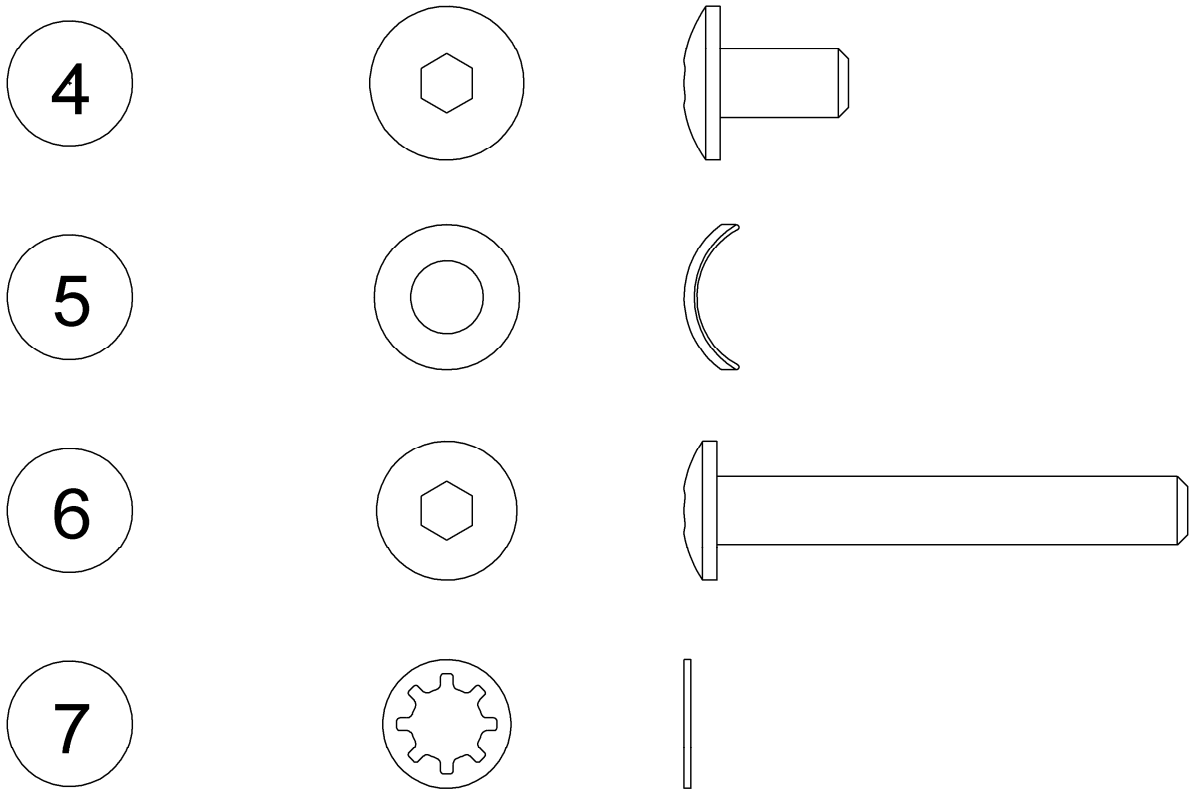
⇒ ***DO*** *verify the contents of the delivery carton against the accompanying parts listing prior to setting the cartons and shipping material aside. If any part is missing, contact Customer Support Services at the number listed on the back page of this assembly instruction booklet.*
Save the shipping cartons in case of return.

⇒ ***DO*** *read the entire Operation Manual prior to attempting to operate this machine, as this is essential for proper use. The Manual explains how to properly use the treadmill and helps you design an aerobic workout tailored to your personal fitness needs or requirements.*

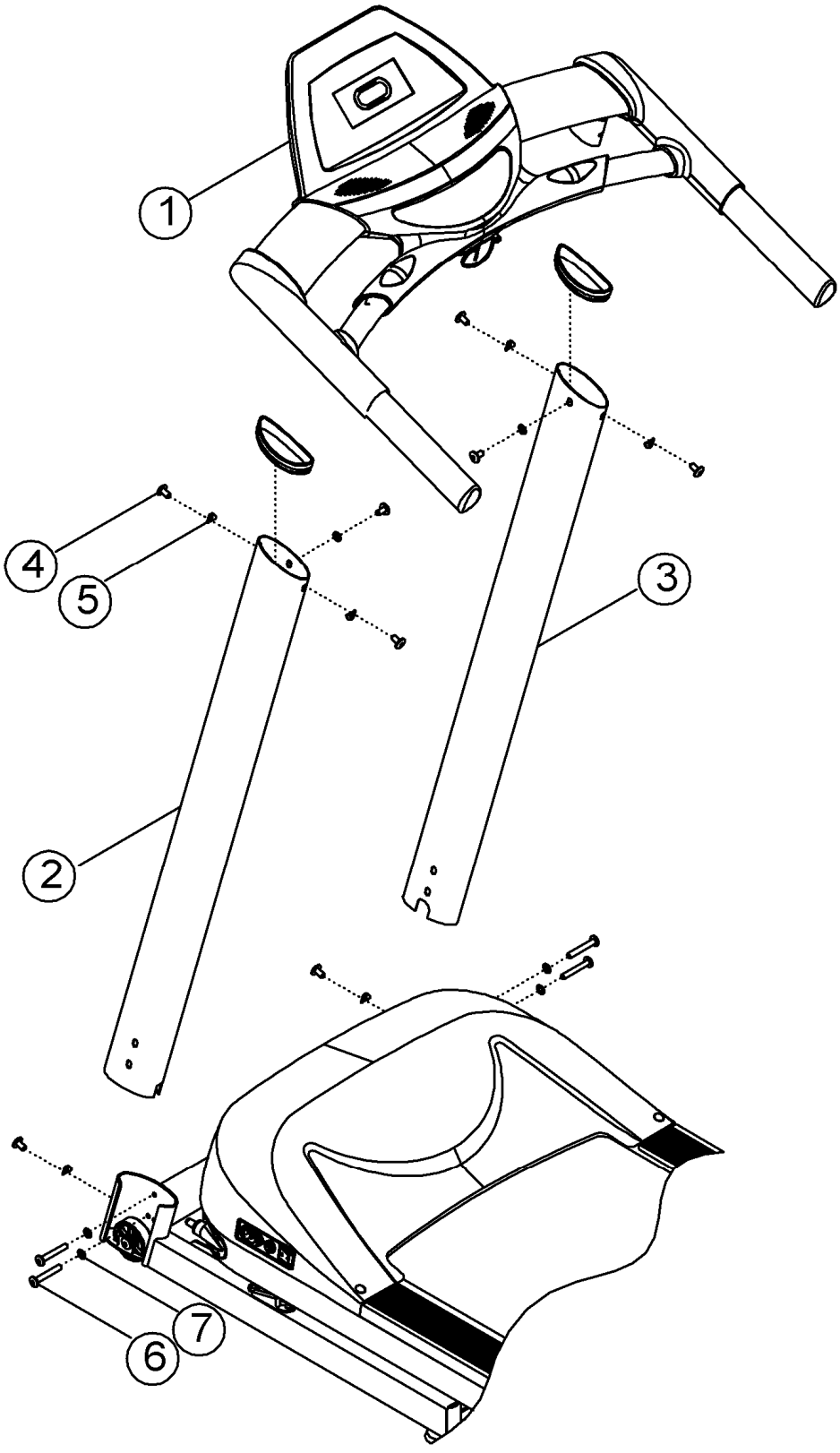
TOOLS REQUIRED FOR ASSEMBLEY…
6mm Allen Key (provided)

T560 / T561 PARTS DESCRIPTION

1	CONSOLE	**Qty: 1**
2	LEFT UPRIGHT POST	**Qty: 1**
3	RIGHT UPRIGHT POST	**Qty: 1**
4	SCREW DOME HEAD M8x15mm	**Qty: 8**
5	WASHER, CURVE OD17xID8.5x1.5T	**Qty: 6**
6	SCREW DOME HEAD M8x50mm	**Qty: 4**
7	WASHER, STAR OD15xID8.4x0.8T	**Qty: 6**



Section VI

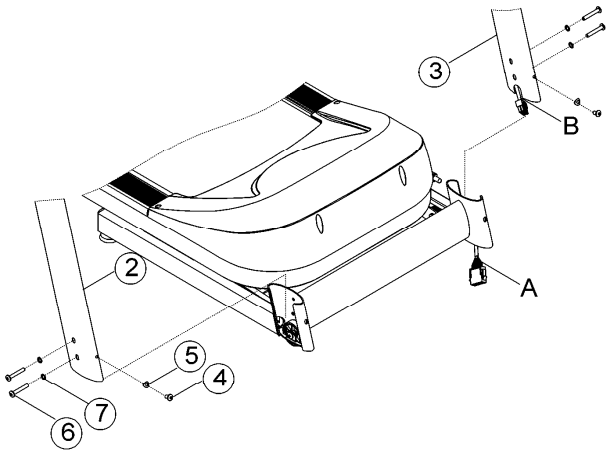

1
2
3
4
5
6
7

IMPORTANT! DO NOT DISCARD THE SHIP KIT LOCATED ON TOP OF THE DECK AND BELT. ALL NECESSARY COMPONENTS NEEDED TO COMPLETE THE INSTALLATION ARE LOCATED IN THE SHIP KIT.

Only one tool is required to assemble the treadmill.
This tool is provided along with the bolt pack. Keep the tool to tension the running belt in the future.

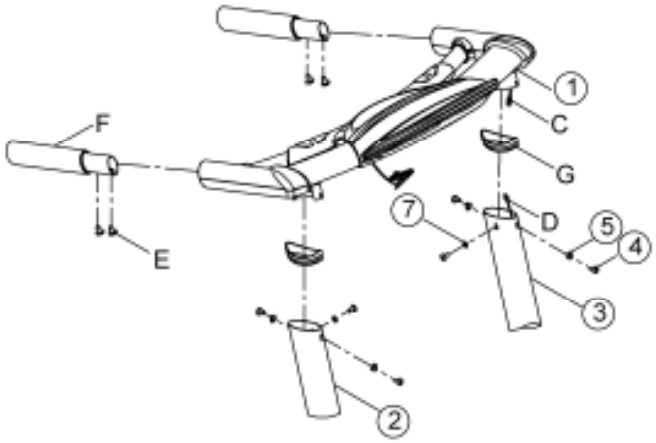
1. ASSEMBLE THE UPRIGHT POSTS

Connect the cable(A) with (B) before you assemble the upright posts to the base frame
Secure upright posts(2)&(3) with two short screws(4)、four long screws(6) and six washers(5and7).



2. ASSEMBLE THE CONSOLE

Secure the console base (1) to the upright posts(2)&(3) with six washers (5and7) and six screws(4)
Be careful not to pinch or damage the cable.
Assemble the console(1) and two hands by four screws(E). Connect the cable(C) with (D),



Section VI

COMMUNICATING BY FAX

I*f you would like to submit a part order, or if you need help troubleshooting a problem, we have included, for your convenience, a FAX form on the following page. Simply make a copy (or copies) of the FAX sheet and fill in the necessary information. You may FAX us at any time, 24 hours a day, to either of the numbers shown. A HS service representative will process your order, or respond to your problem, as quickly as possible.*

IMPORTANT! DO NOT DISCARD THE SHIP KIT LOCATED ON TOP OF THE DECK AND BELT. ALL NECESSARY COMPONENTS NEEDED TO COMPLETE THE INSTALLATION ARE LOCATED IN THE SHIP KIT.

☐ **PARTS ORDER** (IF BOTH PLEASE INDICATE) ☐ **SALE**

☐ **PRODUCT TROUBLESHOOTING** ☐ **WARRANTY**

NAME:	**CUSTOMER NO:**	**DATE:**
PHONE:	**FAX:**	**CONTACT NAME:**

METHOD OF SHIPMENT: ☐ **1 DAY** ☐ **2 DAY** ☐ **GROUND**

PARTS ORDER FORM

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY
1			
2			
3			
4			
5			
6			

PRODUCT TROUBLESHOOTING

PRODUCT NAME:	**SERIAL NO.**
DETAILED DESCRIPTION OF PROBLEM:	
PRODUCT NAME:	**SERIAL NO.**
DETAILED DESCRIPTION OF PROBLEM:	

TIME RECEIVED:	**TIME COMPLETED:**	**TECHNICIAN NAME:**

Healthstream Taiwan Inc.

CUSTOMER SUPPORT SERVICES

Address: 16-3, Zichiang 1st Road
Jhongli, Taoyuan 32063 Taiwan R.O.C.
Phone: 886.3.433.6269
FAX: 886.3.433.6259

NOTES: