



SERVICE MANUAL

Z 100

Z 500

Z 900

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Troubleshooting Guide

ELECTRONIC SYSTEM

No power

There is no power to the console.

1. Unit must be plugged into an outlet with power
2. Power switch must be illuminated
3. Tether cord must be in place
4. Check treadmill circuit breaker. **(procedure 4)**
5. Check “POWER” LED on controller. **(procedure 11)**
6. Make sure wires on board are plugged in securely.
7. Check wire harness for continuity. **(procedure 2)**
8. If LED’s on controller are **not** lit, test fuse on controller. If fuse is good, replace controller. **(procedure 7)**
9. If LED’s are on, replace console.

LS error

Belt movement for a few seconds then LS error

1. Run the calibration procedure. **(procedure 1)**
2. Adjust speed sensor. **(procedure 3)**
3. Check roller for magnet **(Procedure 5)**
4. Check wire harness for continuity. **(procedure 2)**
5. If roller has a magnet and sensor adjustment does not fix, replace speed sensor.

LS error

No belt movement at all then LS error

1. Run the calibration procedure. **(procedure 1)**
2. Check wire harness for continuity. **(procedure 2)**
3. Look at LED labeled “PWM”. **(procedure 11)**
 - If it lights up when the START button is pressed, replace the controller.
 - If it does not light when the START button is pressed, replace the console.

Incline does not work

1. Run the calibration procedure. **(procedure 1)**
2. Check wire harness for continuity. **(procedure 2)**
3. If there is an ERR message in the incline window, make sure that all the wires from the incline motor are connected to the controller correctly **(procedure 12)**. If they are connected correctly, and the calibration does not fix, replace the incline motor. **(procedure 10)**
4. When the UP and DOWN buttons are pressed, there should be a “beep” and a number change in the incline window. If there isn’t, replace the console.
5. Observe the UP and DOWN diagnostic lights on the controller **(procedure 11)**. When the UP or DOWN buttons are pressed, you should (1) see one of the lights come on and (2) hear a relay click.
 - If there is no relay click and no diagnostic lights, replace console and controller **(procedure 7)**.
 - If there is a relay click and a diagnostic light and motor wires are connected correctly, replace incline motor.

Belt surging

Belt speeds up and slows down frequently

1. Adjust torque boost **(procedure 6)**
2. Adjust speed sensor **(procedure 3)**
3. Replace controller **(procedure 7)**

Troubleshooting Guide

MECHANICAL SYSTEM

Belt noise

1. Check belt to see if it needs to be tracked.
2. Take off motor hood to make sure noise is from belt.
3. Check belt and deck for damage.
4. Clean deck and re-lube.

Drive motor noise

1. Check wires around motor for rubbing.
2. Remove, clean, and re-insert the motor brushes
3. Replace motor. **(procedure 9)**

Deck noise

Squeaking or creaking while walking

1. Tighten deck bolts
2. Clean and re-lube deck

Repair Procedures

PROCEDURE 1: Calibrating the unit

- 1.1 Remove tether cord.
- 1.2 Press and hold the START and FAST buttons. Replace the tether cord while maintaining the buttons. Display will show "FACTORY SETTING". Press ENTER.
- 1.3 Units English / Metric. Press UP or DOWN to change. Press ENTER.
- 1.4 Adjust wheel diameter using UP or DOWN. Should be 2.75. Press ENTER.
- 1.5 Adjust minimum speed to 0.5 using UP and DOWN. Press ENTER.
- 1.6 Adjust maximum speed to 12 using UP and DOWN. Press ENTER.
- 1.7 Adjust maximum elevation to 15 using UP and DOWN.
- 1.8 Press START to begin calibration. DO NOT STAND ON BELT DURING CALIBRATION.

PROCEDURE 2: Checking wire harness for continuity

- 2.1 Set your multimeter to read ohms.
- 2.2 Place the test leads at opposite ends of the wire, make sure both leads are on the same wire and are in contact with metal.
- 2.3 If the reading is close to 0 ohms, the wire has continuity (unbroken).
- 2.4 If the reading is very high or there is no reading at all, there is no continuity.
- 2.5 If there is no continuity, the harness needs to be replaced.

PROCEDURE 3: Speed sensor adjustment

- 3.1 Take off the motor hood.
- 3.2 The speed sensor is located on the frame, near where the drive belt goes around the front roller.
- 3.3 The sensor should be adjusted to about 1/16th of an inch from the front roller.



PROCEDURE 4: Checking treadmill circuit breaker

- 4.1 The circuit breaker is a small, red button between the power cord and the power switch.
- 4.2 Press the button in to reset.

PROCEDURE 5: Check roller for magnet

- 5.1 The front roller should have a round magnet and a round counter weight.
- 5.2 Take a screw or something metallic and test each one.
- 5.3 Only one should be magnetic.

PROCEDURE 6: Adjust Torque Boost

- 6.1 Using a small screw driver, turn the dial counter clockwise until it stops.
- 6.2 Press the START button on the console.
- 6.3 With someone standing on the walking belt, turn clockwise until the belt begins to move.
- 6.4 Increase the speed and check for smooth belt movement.

(See PROCEDURE 11 for location of Torque Boost)

PROCEDURE 7: Replacing controller

- 7.1 Disconnect power cord from unit.
- 7.2 Remove motor hood.
- 7.3 Remove two Phillips screws holding in the controller.
- 7.4 Disconnect all wires connected to the controller.
- 7.5 Insert new controller, secure with Phillips screws.
- 7.6 Reconnect wires to controller. *(See Procedure 12)*

PROCEDURE 8: Replacing wire harness

- 8.1 Turn power switch off.
- 8.2 Unplug harness from console and controller.
- 8.3 Tie the end of the new harness to the old harness (with a zip-tie or spare wire).
- 8.4 As you pull the old harness out of the upright, you will pull the new harness in.
- 8.5 Connect to board and console, & turn power back on.

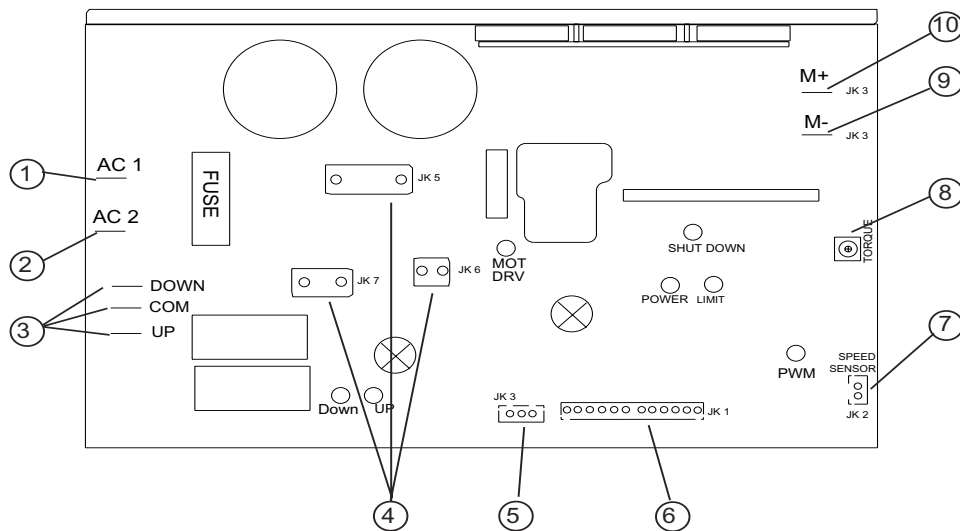
PROCEDURE 9: Replacing drive motor

- 9.1 Turn power switch off.
- 9.2 Disconnect red and black motor wires from controller.
- 9.3 Loosen tension bolt and remove four motor bolts.
- 9.4 Take off drive belt.
- 9.5 Insert new motor into place.
- 9.6 Put drive belt on.
- 9.7 Put in four motor bolts. Do not tighten them all the way down.
- 9.8 Tighten the tension bolt until you only have about an inch of play in the drive belt.
- 9.9 Tighten down the four motor bolts.
- 9.10 Plug the motor wires into the controller.

PROCEDURE 10: Replacing incline motor

- 10.1 Turn power switch off.
- 10.2 If possible, fold up unit.
- 10.3 Turn treadmill onto its side.
- 10.4 Disconnect motor wires from controller.
- 10.5 Remove bolt from incline tube.
- 10.6 Remove bolt from top of incline motor and take out motor.
- 10.7 Insert new motor and put in bolt on the top.
- 10.8 Reconnect motor wires to controller.
- 10.9 Turn on unit. The new motor should turn until it is at “zero”.
- 10.10 Insert bolt into incline tube.

PROCEDURE 11: Controller diagram



1) AC1 : White wire from power switch

2) AC2 : Black wire from power switch

3) Incline Motor Connection :
Down- Black wire to inc mtr.
Com- White wire to inc mtr.
Up- Red wire to inc mtr.

4) Transformer Connections :
JK5- Black,Black
JK6- Blue, Blue
JK7- Red, Red

5) Incline Potentiometer (VR)

6) Lower Wiring Harness Connection

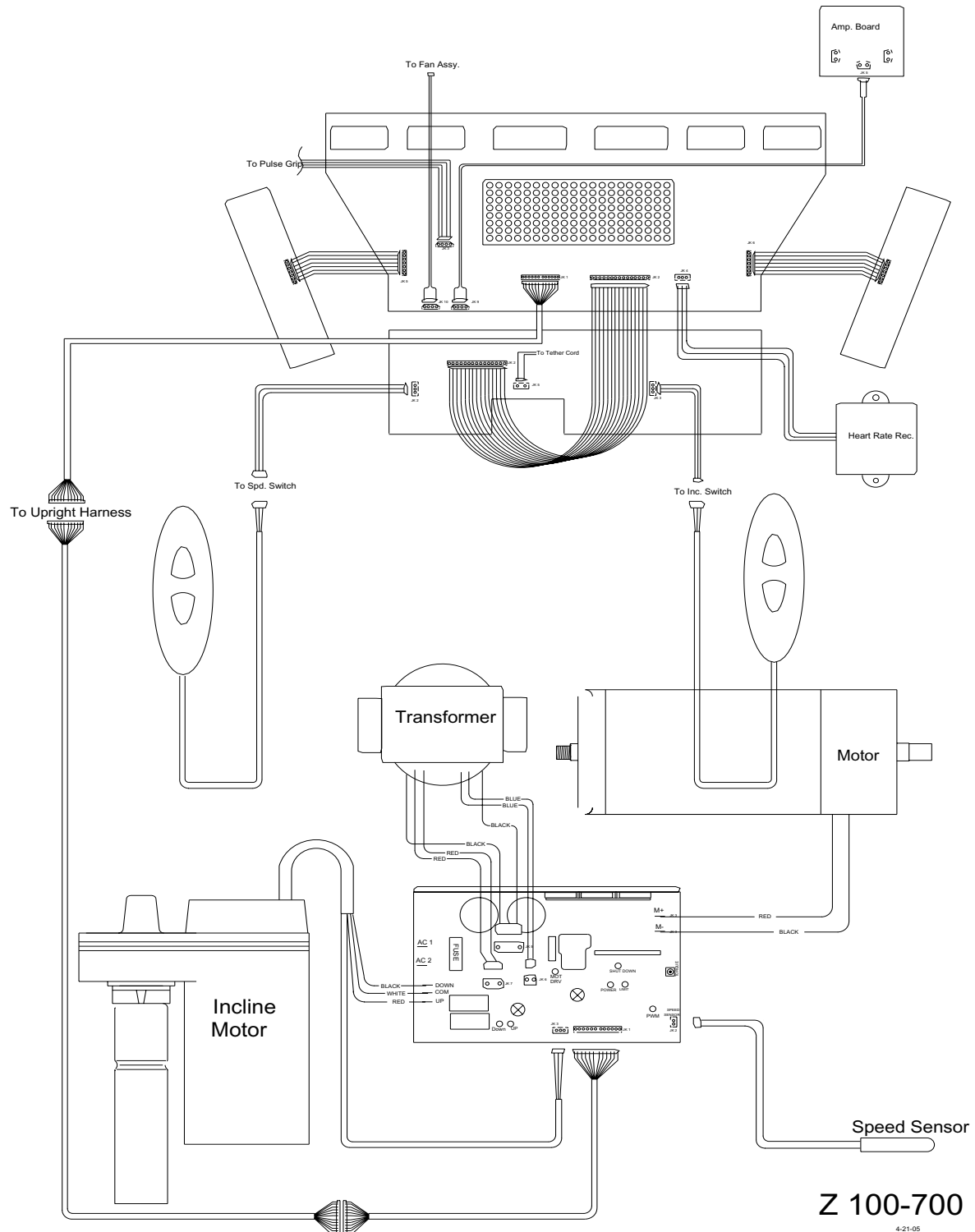
7) Speed Sensor Connection

8) Torque Boost Adjustment - Adjust at lower speeds to eliminate motor surging

9) Motor Connection M- : Black motor wire

10) Motor Connection M+ : Red motor wire

PROCEDURE 12: Wiring diagram



PROCEDURE 13: Engineering mode

1. Remove the tether cord.
2. Press and hold the START, ENTER, and STOP buttons and replaced the tether cord.
3. The display will say ENGINEERING MODE. Press ENTER.
4. Press the UP and DOWN buttons to scroll through the following sub menus:
 - Calibration
 - Factory Settings
 - Security
 - Functions
 - Display Test
 - Key Test
5. Press ENTER to access the desired program.

-Calibration

Speed Calibration – In this mode, you can test the speed.

Incline Calibration – In this mode, you can test the incline.

-Factory Settings

This mode will allow you to view the Wheel size, Max inc, Max and Min speed.

Use the UP and DOWN buttons to scroll through. (They cannot be changed here)

-Security

Child Lock On/Off

Press ENTER to turn on or off. To unlock display, press START and ENTER.

-Functions

Sleep Mode On/Off. Press ENTER to turn on or off.

Units English/Metric. Press ENTER to change.

Maintenance

Lube Message Reset. Press ENTER to reset.

Odometer Reset. Press ENTER to reset.

Pause Mode On/Off. Press ENTER to turn on or off.

-Display Test

Test all LED's

-Key Test

Test all buttons on console.

CONTACTING CUSTOMER SERVICE

It is the responsibility of the Dealer to assemble and setup any Spirit product they have sold, as well as diagnose problems and perform service, regardless of the product's location. Recognizing the importance of insuring the consumer's satisfaction, Spirit technical support will always be available to assist the Dealer in diagnosing a problem. All warranties are valid from the original date of purchase by the original purchaser.

PARTS ORDERS **Fax 870-930-9013**

Fax your order using a completed parts purchase order to (870) 930-9013. Please do not call to place your parts orders, fax only. Service technicians are available to assist in the repair of treadmills. If taking parts orders by telephone, technical service calls will go unanswered. **Standard shipping is UPS ground. If you need an order shipped by another method, you must pay for shipping.**

CUSTOMER SERVICE **Call 800-258-4555**

Calling from Store Location

Dial 1 to reach the first available technician, or select the extension number for one technician. ***You must have the serial number of the machine.***

Eddie Greene, Customer Service Supervisor ext. 630

Jerry Savage, Customer Support ext. 632

Travis Lawrence, Customer Support ext. 633

Kevin Thomas, Customer Support ext. 628

If the technician you choose is unavailable, leave a detailed message. Leave only one message. Do not call another extension. Do not leave multiple messages. This results in a duplication of effort and keeps our technicians from assisting you and other customers in a prompt manner.

Calling from Customer Location

Dial 0 for an operator. Relay to the operator you are a dealer and in a customer's home. You will be assisted by the first available technician.

TREADMILL WARRANTY

Spirit Manufacturing Inc. warrants all its treadmills' parts for a period of 5 years from the date of retail sale, as determined by sale receipt, or eighteen (18) months from the original factory shipping date, whichever comes first. Spirit's responsibilities include providing new or remanufactured parts, at Spirit's option, and technical support to our independent dealers and servicing organizations. In the absence of a dealer or service organization, these warranties will be administered by Spirit directly to a consumer. An extended warranty period applies to the following components:

Drive Motor	30 Years
Deck Wear	5 Years
Electronics / Belt / Rollers	5 Years
Frame Weldments	Lifetime
All other Components	5 Years

WARRANTY POLICY

Parts Returns

It is very important that you have not only the model number but also the serial number on hand when placing a parts order. If a serial number is provided at the time a warranty parts order is placed the required parts will be sent to you at no charge. If the unit is no longer covered under warranty the parts will be billed to you on 30 day payment terms.

If a warranty replacement part is required to be returned to Spirit it will be noted on the packing list included in your shipment. Also noted on the packing list will be the amount you will be invoiced if the parts are not returned within 30 days.

Parts Required to be Returned for Credit

Upper and Lower Electronics - All STS / SC / SL / Inspire / Z / XT Series

Paperwork Requirement: A copy of your invoice or packing list and diagnostic form (if included with replacement part) must be returned with the defective part to receive warranty consideration.

Warranty Labor Reimbursement Procedure

Complete Request for Warranty Labor Credit Form.

Fax completed form to Terry Jordan at (870) 930-9013.

Once Spirit has received your returned parts, your request will be processed and returned by fax to you.

What is Not Covered

- 1) Failures created due to improper installation or maintenance.
- 2) Repairs requiring only simple adjustments, fuses, or calibrations.
- 3) Damages sustained from shipping - Freight claim must be filed with your carrier.
- 4) Repairs that are made beyond the warranty period.
- 5) Repairs where the customer is paying the base labor fee to the dealer.
- 6) Units that are dealer stock or floor models.
- 7) Trips for diagnostic visit.
- 8) Residential units in a commercial setting.

Credit will not be issued for repairs in which:

- 1) Parts required for return are not returned to Spirit within 30 days.
- 2) All paperwork is not completed or returned.
- 3) Spirit confirms that work was not completed.

Warranty Labor Reimbursement Policy

Spirit has established a set of guidelines that are fair to both independent service companies and to Spirit. Our policy on labor warranty reimbursement is simple...we pay a one time flat completion fee of \$80 per service occurrence. Once all work required to complete the repair has been finished and all parts required for return have been returned to Spirit either credit or payment in the amount of \$80 will be issued to your company. The one-time flat completion fee of \$80 will be paid only when the repair is complete and the unit has been returned to proper working condition. If your company needs consideration for labor or trip fees that are higher than Spirit's standard fees, they will be evaluated on a case-by-case basis. (e.g. - travel to perform service work in Manhattan). Any change in the fee schedule must be approved in writing by Spirit before any work is performed.

For Dealers That Wish To Use Third Party Service

It is Spirit's policy that all dealers service products that they sell to end users. If your company chooses to use an independent company for service, you are responsible for all service work. Our labor reimbursement policies apply in every case and any charges in excess of Spirit's one time flat completion fee will be billed back to the selling dealer. In certain circumstances, we will work directly with an independent service company, but we will not pay for any service that deviates from our policy for dealers wishing to have this arrangement. Dealers will be responsible to the service company for all charges disallowed by Spirit. Any deviation from Spirit policy must be approved in advance in writing.



Fax to: **870-930-9013**

Attention: _____

PARTS PURCHASE ORDER

Fill in completely for processing.

All orders are shipped F.O.B. Spirit Mfg., Jonesboro, Arkansas.

Dealer Name	Account No.	Ship to
Street & No.		Street & No.
City	State Zip	City State Zip
Phone Number	Fax Number	Phone Number Fax Number

Purchase Order No.	Dealer Buyer's Name	All parts ordered are considered stock orders unless a serial number is listed below each parts' description box. A serial number listed will qualify it for warranty <u>evaluation</u> .			Date of Order
Qty.	Part No.	Description	Unit Price	Amount	

Order Completion - Orders must be signed!

If a part is not accompanied by a serial number, it will be assumed that the part order is for stock. We encourage all dealers to stock parts. Spirit will always be fair to all dealers on credit for parts. Spirit reserves the right to subject parts returns to a 20% restocking fee if Spirit determines that the dealer has excessively ordered parts randomly to repair a problem.

Buyer Signature _____ Date _____

Shipping Instructions: (All orders will be shipped via ground delivery unless otherwise indicated.) **Buyer will be responsible for all expedited shipping charges.**

Special Instructions: 2nd Day Air _____

Next Day Air _____

Saturday Delivery _____

Initial Your Special Shipping Instructions Here _____
(Orders for expedited shipping without initials will be shipped via ground delivery.)

REQUEST FOR WARRANTY LABOR CREDIT



P.O. BOX 2037 ■ JONESBORO, ARKANSAS 72402

Labor Warranty ☐ Spirit is responsible ☐ Customer is responsible
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Date of Repair	Model#	Serial Number	
Service Company	Svc CoAcct Number	Owner's Name	
		Owner's Address	
Selling Dealer Number	Selling Dlr Acct	Phone Number With Area Code	Date Sold

Problem

Repair Done

				FACTORY USE ONLY			
QUANTITY	PART NUMBER	PART DESCRIPTION	WTY	TEST RESULTS	UNIT PRICE	WORK ORDER	INVOICE

FACTORY USE ONLY		
		FREIGHT:
LABOR		SHIPPING:
TRIP		WARRANTY CREDIT WILL BE ISSUED TO DEALER ACCOUNT.
TOTAL LABOR		

ALL PARTS MUST BE RETURNED TO FACTORY UNLESS INSTRUCTED OTHERWISE.

CLAIMS MUST BE RETURNED TO SPIRIT CORP. WITHIN 7 DAYS OF REPAIR.

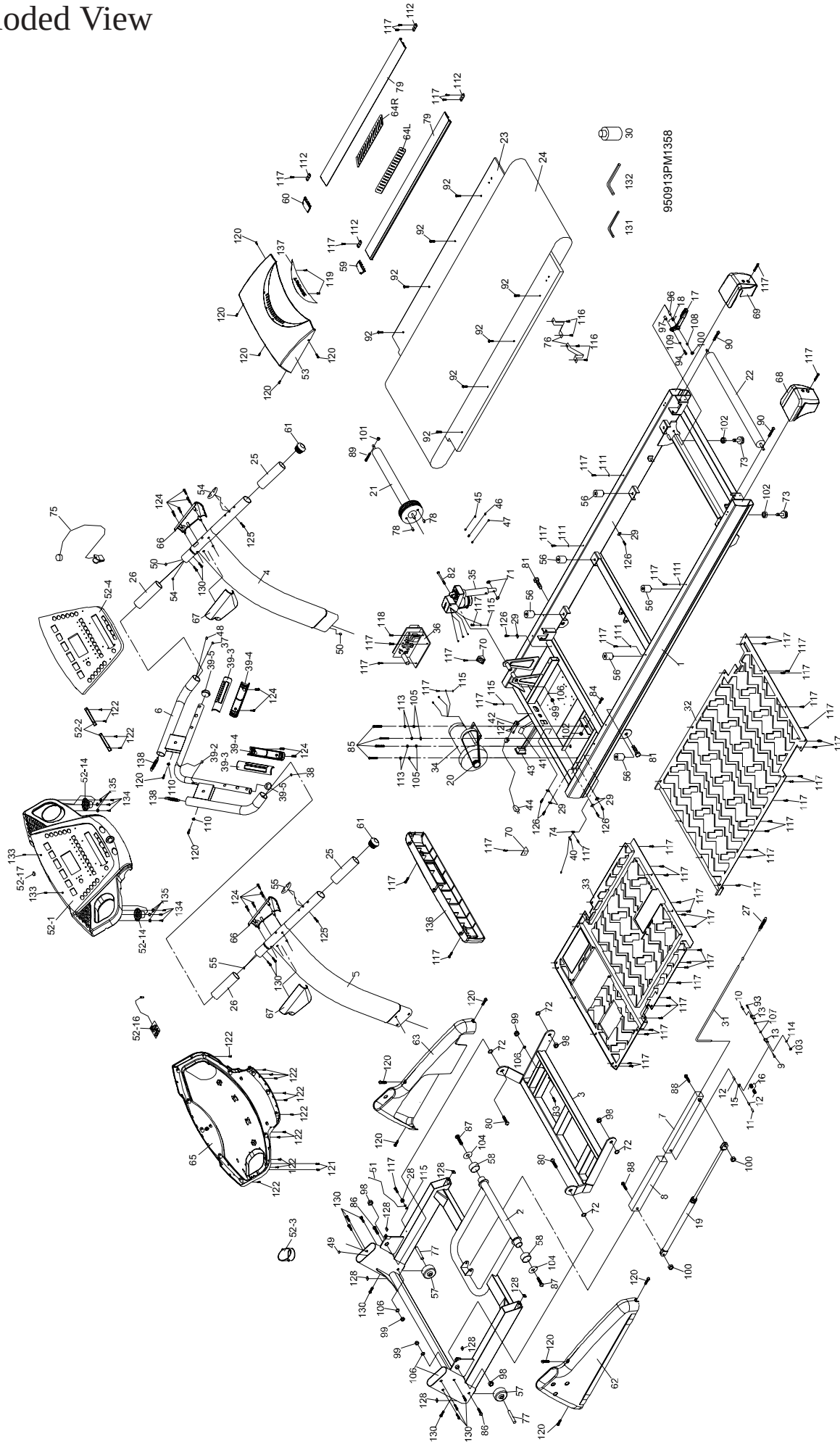
SHADED AREAS FACTORY USE ONLY

Authorization No. _____

WARRANTY ADMINISTRATOR

FAX TO SPIRIT (870) 930-9013

Z100 Exploded View



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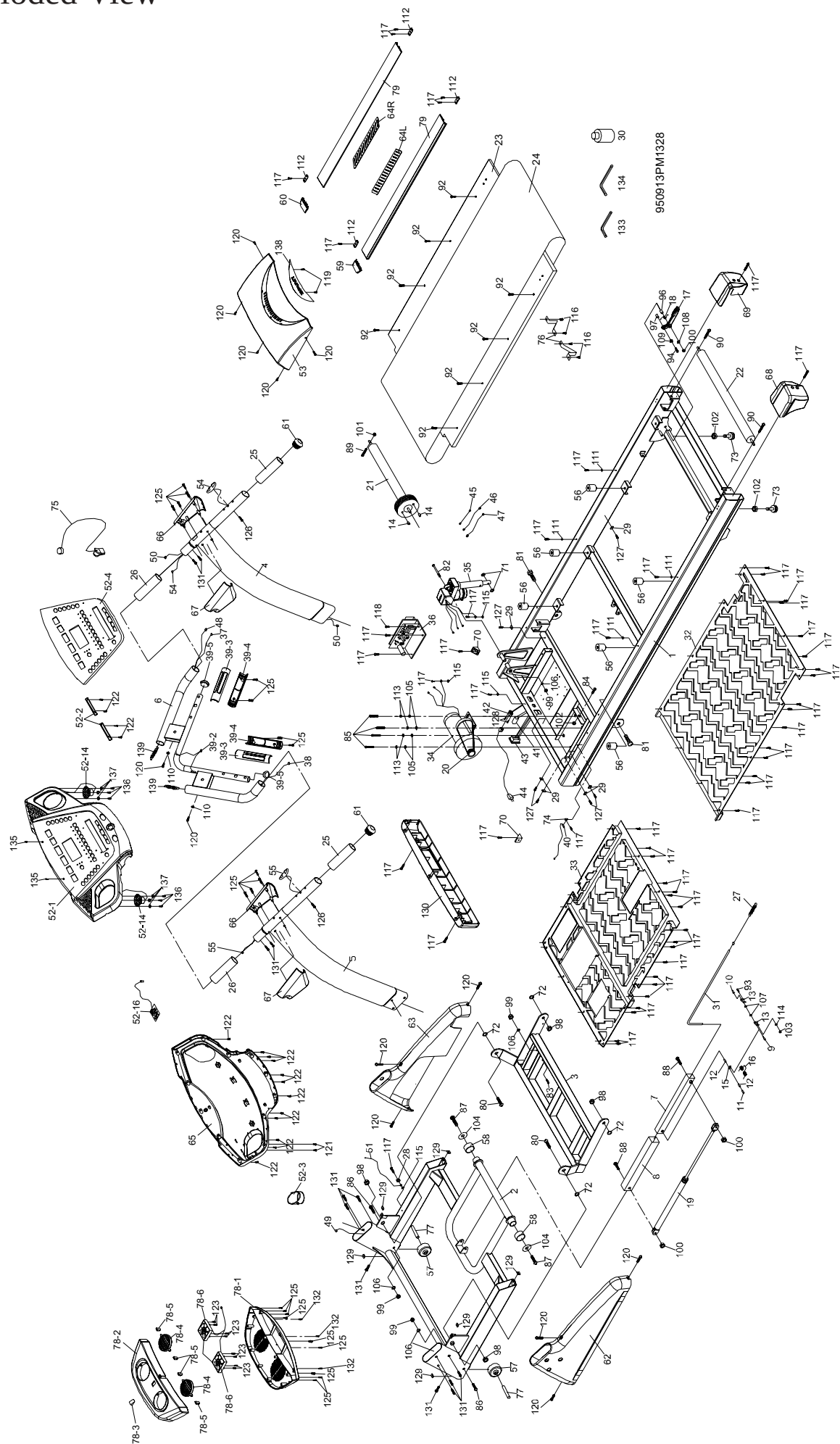
U-Z100 (XZ200-A82)

NO.	DESCRIPTION	O'TY	PART #	
1	MAIN FRAME			1
2	FRAME BASE			1
3	INCLINE BRACKET		000561	1
4	RIGHT HANDRAIL		000628	1
5	LEFT HANDRAIL		000627	1
6	CONSOLE SUPPORT		022928	1
7	INNER SLIDE			1
8	OUTER SLIDE			1
9	~ 5 x~ 8 x 25L_ CLEVIS PIN		030101	1
10	~ 5 x~ 8 x 9L_ FASTENING BUSHING			1
11	~ 8 x30L _LINK SHAFT			1
12	~ 8 x~ 12.7 x 12L_ SHAFT BUSHING			2
13	2T_ FASTENING BRACKET			2
15	2T_LINK			1
16	~ 1.0_ DUAL ROTA-SPRING			1
17	CLENCHING HANDLE ASSY.	(Handle Only - 000506)	000563	1
18	CHENCHING ROTA-SPRING		000865	1
19	CYLINDER - 900N		022554	1
20	DRIVE BELT - 240J/610J		022553	1
21	FRONT ROLLER W/ PULLEY		000497	1
22	REAR ROLLER		000498	1
23	RUNNING DECK		000488	1
24	RUNNING BELT		000600	1
25	FOAM (A)		022972	2
26	FOAM (B)		023068	2
27	STEEL ROPE ROTA-SPRING		010026	1
28	WIRE CLAMP			1
29	WIRE TIE MOUNT		010083	6
30	LUBRICANT		022271	1
31	STEEL ROPE			1
32	TOP FRAME COVER		000571	1
33	BOTTOM FRAME COVER		000572	1
34	MOTOR - 3HP YC		000602	1
35	INCLINE MOTOR		022696	1
36	CONTROLLER		022670	1
37	800 m/m _ SPEED CABLE		022754	1
38	800 m/m _INCLINE CABLE		022755	1
39	HANDPULSE ASSY.		022672	2
39~2	650 m/m_HANDPULSE CABLE		022756	1
39~3	HANDPULSE ASSEMBLY TOP		022757	2
39~4	HANDPULSE ASSEMBLY BOTTOM		022758	2
39~5	HANDLE BAR END CAP		022759	2
40	SENSOR W/CABLE		022561	1
41	BREAKER - 15 AMP		022448	1
42	POWER SOCKET		022658	1
43	ON / OFF SWITCH		022476	1

44	POWER CORD	022812	1
45	100m/m x 764 x 764_CONNECTING CABLE(BLACK)		1
46	300m/m x 764 x 764_CONNECTING CABLE (WHITE)		1
47	300m/m x 764 x 764_CONNECTING CABLE(BLACK)		1
48	800 m/m_COMPUTER CABLE (UPPER)	022720	1
49	1150 m/m_COMPUTER CABLE (LOWER)	022721	1
50	1300 m/m_COMPUTER CABLE (MIDDLE)	022719	1
51	1000m/m_ GROUND WIRE		1
52	CONSOLE	000617	1
52~1	TOP CONSOLE COVER	000588	1
52~2	BOOK RACK (order as separate pcs.-2 racks per console)	000591	2
52~3	BEVERAGE HOLDER	000592	1
52~4	FACE PLATE LENS	000597	1
52~14	SPEAKER	022946	2
52~16	SOUND BOARD W/CABLE - SPEAKER AMP	022940	1
53	TOP MOTOR COVER	000581	1
54	SPEED ADJUSTMENT SWITCH W/CABLE	022558	1
55	INCLINE ADJUSTMENT SWITCH W/CABLE	022559	1
56	M8 x ~ 30 x 35_CUSHION (softer = 030060)	022482	6
57	~ 75_WHEEL(A)	022967	2
58	~ 62_WHEEL(B)	000127	2
59	FOOT RAIL CAP (L)	000603	1
60	FOOT RAIL CAP (R)	000604	1
61	~ 38_BUTTON HEAD END CAP	022024	2
62	FRAME BASE CAP (L)	000586	1
63	FRAME BASE CAP (R)	000587	1
64L	NON-SLIP RUBBER(L)	000313	1
64R	NON-SLIP RUBBER(R)	000314	1
65	BOTTOM CONSOLE COVER	000596	1
66	HANDGRIP SIDE CAP (R) COMES AS SET	000582	2
67	HANDGRIP SIDE CAP (L)		2
68	REAR ADJUSTMENT BASE (L)	000593	1
69	REAR ADJUSTMENT BASE (R)	000594	1
70	MOTOR COVER ANCHOR(D)	022484	2
71	~ 10 x ~ 24 x 3T_NYLON WASHER (A)		2
72	~ 50 x ~ 13 x 3T_ NYLON WASHER (B)		4
73	~ 30 x 3/8" _FOOT PAD	022713	2
74	SENSOR RACK	022989	1
75	SAFETY KEY	022945	1
76	BELT GUIDE	000595	2
77	~ 14 x ~ 10 x 35_ WHEEL SLEEVE	023101	2
78	MAGNET	010041	2
79	FOOT RAIL	000629	2
80	1/2" x 1-1/4" _CARRIAGE BOLT		2
81	1/2" x 1" _HEX HEAD SCREW		2
82	3/8" x 4-1/2" _SOCKET HEAD CAP SCREW		1
83	3/8" x 3-3/4" _BUTTON HEAD SOCKET SCREW		1
84	3/8" x 1-1/2" _HEX HEAD SCREW	000062	1
85	3/8" x 1" _HEX HEAD SCREW	000061	4
86	3/8" x 2" _FLAT HEAD SOCKET SCREW	022885	2
87	5/16" x 1" _BUTTON HEAD SOCKET SCREW	000125	2
88	5/16" x 2-3/4" _BUTTON HEAD SOCKET SCREW	022314	2

89	M8 x 60m/m_HEX HEAD SCREW		1
90	M8 x 80m/m_SOCKET HEAD CAP SCREW		2
92	M8 x 35m/m_FLAT HEAD COUNTERSINK SCREW		8
93	M3 x 10m/m_PHILLIPS HEAD SCREW	023082	1
94	M5 x 15m/m_PHILLIPS HEAD SCREW	000913	1
96	5/16" x 42 m/m_PHILLIPS HEAD SCREW		1
97	M5_ NYLON NUT		1
98	1/2" x 8T_ NYLON NUT	023102	4
99	3/8" x 7T_ NYLON NUT	000080	4
100	5/16" x 6T_ NYLON NUT	030039	3
101	M8x 8T_ NYLON NUT		1
102	3/8" x 6.5T_ NUT (for Foot Pad)	010125	3
103	M3_ NUT		1
104	~ 35 x ~ 5/16" x 1.5T_ FLAT WASHER	000126	2
105	~ 25 x ~ 10 x 1.5T_ FLAT WASHER		4
106	~ 19 x ~ 10 x 1.5T_ FLAT WASHER		4
107	~ 5 x ~ 10 x 1.0T_ FLAT WASHER		2
108	~ 5/16" x ~ 18 x 1.5T_ FLAT WASHER	000077	1
109	~ 5 x ~ 12 x 1.0T_ FLAT WASHER		1
110	~ 5 x ~ 15 x 1.0T_ FLAT WASHER		2
111	~ 6 x ~ 23 x ~ 13 x 5.5T x 3T_NYLON DISHED WASHER		4
112	~ 6.5 x 25 x 50 x 1.5Tx2.5H_CONCAVE WASHER		4
113	~ 10 _SPRING WASHER		4
114	M3_SPRING WASHER		1
115	M5_RAISED WASHER		4
116	4x12m/m_SELF TAPPING SCREW	000070	4
117	5x16m/m_TAPPING SCREW - Black	010110	59
118	5x19m/m_TAPPING SCREW	010125	1
119	3.5 x 6 m/m_SELF TAPPING SCREW		2
120	5 x 16m/m_TAPPING SCREW	010110	13
121	3 x10m/m_SELF TAPPING SCREW	023082	2
122	3.5 x 12 m/m_SELF TAPPING SCREW	010113	16
124	3x10 m/m_TAPPING SCREW	010115	12
125	4x38m/m_SELF TAPPING SCREW	000325	2
126	3.5 x 16 m/m_TAPPING SCREW	022979	6
127	3 x 10 m/m_SELF TAPPING SCREW	023082	2
128	M5_ IRON PLATE NUT	010109	6
130	5/16" x 1/2" _BUTTON HEAD SOCKET SCREW	000085	12
131	COMBINATION M5 ALLEN WRENCH & PHILLIPS HEAD SCREW DRIVER	000089	1
132	M6 ALLEN WRENCH	022973	1
133	3 x 10 m/m_SELF TAPPING SCREW	023082	2
134	3x 8m/m_SELF TAPPING SCREW		6
135	PLASTIC WASHER		6
136	FRONT MOTOR COVER	000590	1
137	TOP MOTOR COVER PLATE	000589	1
138	0.8T_SPRING FOR CONSOLE		2
	Hardware Kit	022680	1
	Decal (Side)	000546	2
	Decal (Console)	000624	2

Z500 Exploded View



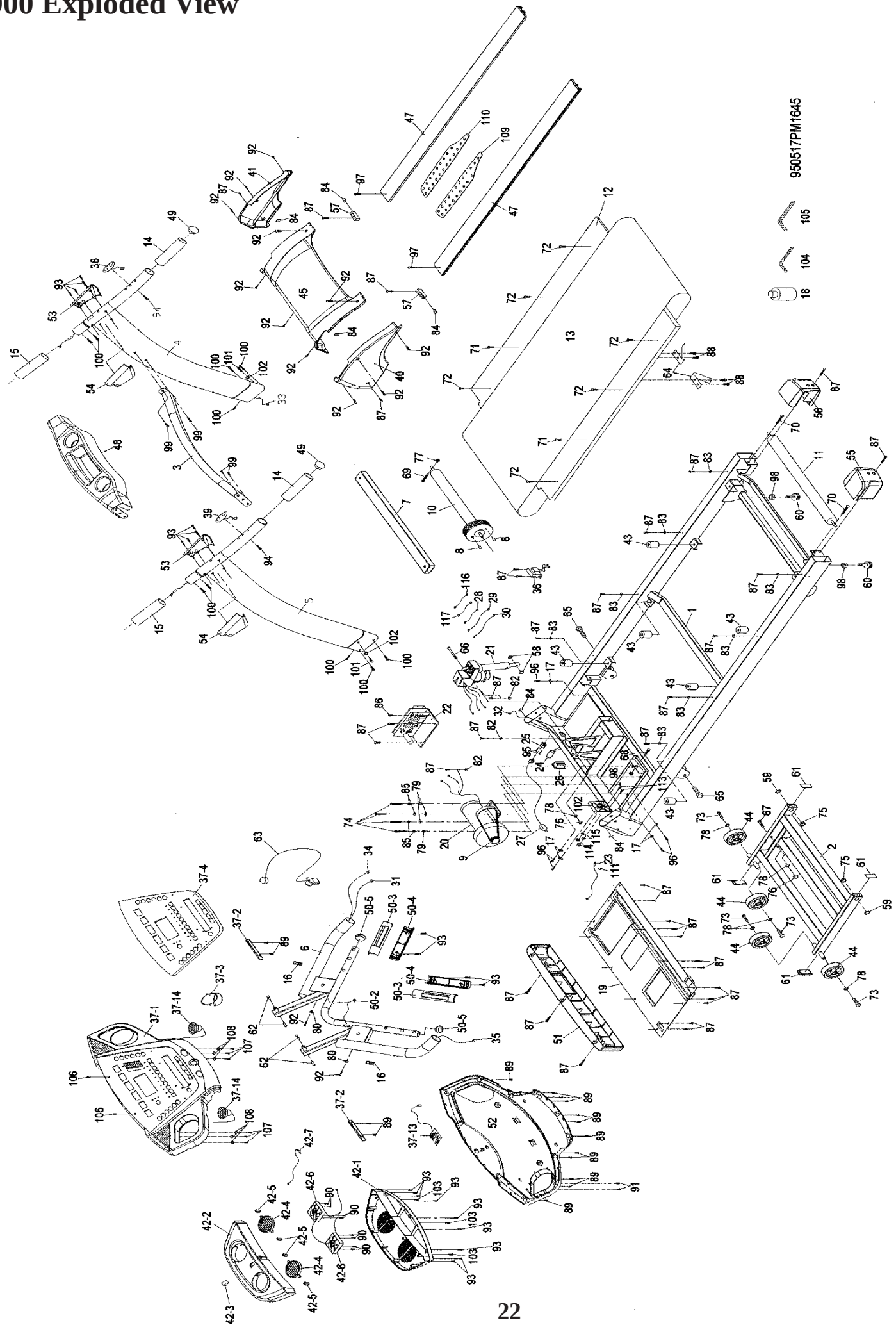
U-Z500 - (XZ600-A82)

NO.	DESCRIPTION	PART #	O'TY
1	MAIN FRAME		1
2	FRAME BASE		1
3	INCLINE BRACKET	000561	1
4	RIGHT HANDRAIL	000628	1
5	LEFT HANDRAIL	000627	1
6	CONSOLE SUPPORT	022928	1
7	INNER SLIDE		1
8	OUTER SLIDE		1
9	~ 5 x~ 8 x 25L_ CLEVIS PIN	030101	1
10	~ 5 x~ 8 x 9L_ FASTENING BUSHING		1
11	~ 8 x30L_ LINK SHAFT		1
12	~ 8 x~ 12.7 x 12L_ SHAFT BUSHING		2
13	2T_ FASTENING BRACKET		2
15	2T_LINK		1
16	~ 1.0_ DUAL ROTA-SPRING		1
17	CLENCHING HANDLE ASSY. (Handle ONLY=000506)	000564	1
18	CHENCHING ROTA-SPRING	000865	1
19	CYLINDER - 1000N	023095	1
20	DRIVE BELT - 240J/610J	022553	1
21	FRONT ROLLER W/ PULLEY	000497	1
22	REAR ROLLER	000498	1
23	RUNNING DECK	000491	1
24	RUNNING BELT	000601	1
25	FOAM (A)	022972	2
26	FOAM (B)	023068	2
27	STEEL ROPE ROTA-SPRING	010026	1
28	WIRE CLAMP		1
29	WIRE TIE MOUNT	010083	6
30	LUBRICANT	022271	1
31	STEEL ROPE		1
32	TOP FRAME COVER	000574	1
33	BOTTOM FRAME COVER	000572	1
34	MOTOR - 3.0hp YC	000602	1
35	INCLINE MOTOR	022696	1
36	CONTROLLER	022670	1
37	800 m/m_ SPEED CABLE	022754	1
38	800 m/m_ INCLINE CABLE	022755	1
39	HANDPULSE ASSY.	022672	2
39~2	650 m/m_ HANDPULSE CABLE	22756	1
39~3	HANDPULSE ASSEMBLY TOP	022757	2
39~4	HANDPULSE ASSEMBLY BOTTOM	022758	2
39~5	HANDLE BAR END CAP	022759	2
40	SENSOR W/CABLE	022561	1
41	BREAKER - 15 Amp	022448	1
42	POWER SOCKET	022658	1
43	ON / OFF SWITCH	022476	1
44	POWER CORD	022812	1

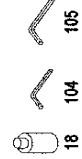
45	100m/m x 764 x 764_CONNECTING CABLE(BLACK)		1
46	300m/m x 764 x 764_CONNECTING CABLE (WHITE)		1
47	300m/m x 764 x 764_CONNECTING CABLE(BLACK)		1
48	800 m/m_COMPUTER CABLE (UPPER)	022720	1
49	1150 m/m_COMPUTER CABLE (LOWER)	022721	1
50	1300 m/m_COMPUTER CABLE (MIDDLE)	022719	1
51	1000m/m_ GROUND WIRE		1
52	CONSOLE	000619	1
52~1	TOP CONSOLE COVER	000588	1
52~2	BOOK RACK (does not come as Set)	000591	2
52~3	BEVERAGE HOLDER	000592	1
52~4	FACE PLATE LENS	000598	1
52~14	SPEAKER	022946	2
52~16	SOUND BOARD W/CABLE - SPEAKER AMP	022940	1
53	TOP MOTOR COVER	000581	1
54	SPEED ADJUSTMENT SWITCH W/CABLE	022558	1
55	INCLINE ADJUSTMENT SWITCH W/CABLE	022559	1
56	M8 x ~ 30 x 35_CUSHION (softer = 030060)	022482	6
57	~ 75_WHEEL(A)	022967	2
58	~ 62_WHEEL(B)	000127	2
59	FOOT RAIL CAP (L)	000603	1
60	FOOT RAIL CAP (R)	000604	1
61	~ 38_BUTTON HEAD END CAP	022024	2
62	FRAME BASE CAP (L)	000586	1
63	FRAME BASE CAP (R)	000587	1
64L	NON-SLIP RUBBER(L)	000313	1
64R	NON-SLIP RUBBER(R)	000314	1
65	BOTTOM CONSOLE COVER	000596	1
66	HANDGRIP SIDE CAP (R) Comes as SET	000582	2
67	HANDGRIP SIDE CAP (L)		2
68	REAR ADJUSTMENT BASE (L)	000593	1
69	REAR ADJUSTMENT BASE (R)	000594	1
70	MOTOR COVER ANCHOR(D)	022484	2
71	~ 10 x ~ 24 x 3T_NYLON WASHER (A)		2
72	~ 50 x ~ 13 x 3T_ NYLON WASHER (B)		4
73	~ 30 x 3/8" _FOOT PAD	022713	2
74	SENSOR RACK	022989	1
75	SAFETY KEY	022945	1
76	BELT GUIDE	000595	2
77	~ 14 x~ 10 x 35_ WHEEL SLEEVE	023101	2
78	MAGNET	010041	2
79	FOOT RAIL	000583	2
80	1/2" x 1-1/4" _CARRIAGE BOLT		2
81	1/2" x 1" _HEX HEAD SCREW		2
82	3/8" x 4-1/2" _SOCKET HEAD CAP SCREW		1
83	3/8" x 3-3/4" _BUTTON HEAD SOCKET SCREW		1
84	3/8" x 1-1/2" _HEX HEAD SCREW	000062	1
85	3/8" x 1" _HEX HEAD SCREW	000061	4
86	3/8" x 2" _FLAT HEAD SOCKET SCREW	022885	2
87	5/16" x 1" _BUTTON HEAD SOCKET SCREW	000125	2

88	5/16" x 2-3/4" _BUTTON HEAD SOCKET SCREW	022314	2	
89	M8 x 60m/m _HEX HEAD SCREW		1	
90	M8 x 80m/m _SOCKET HEAD CAP SCREW		2	
92	M8 x 35m/m _FLAT HEAD COUNTERSINK SCREW		8	
93	M3 x 10m/m _PHILLIPS HEAD SCREW	023082	1	
94	M5 x 15m/m _PHILLIPS HEAD SCREW	000913	1	
96	5/16" x 42 m/m _PHILLIPS HEAD SCREW		1	
97	M5_ NYLON NUT		1	
98	1/2" x 8T_ NYLON NUT	023102	4	
99	3/8" x 7T_ NYLON NUT	000080	4	
100	5/16" x 6T_ NYLON NUT	030039	3	
101	M8x 8T_ NYLON NUT		1	
102	3/8" x 6.5T_ NUT (for Foot Pad)	010125	3	
103	M3_ NUT		1	
104	~ 35 x ~ 5/16" x 1.5T_ FLAT WASHER	000126	2	
105	~ 25 x ~ 10 x 1.5T_ FLAT WASHER		4	
106	~ 19 x ~ 10 x 1.5T_ FLAT WASHER		4	
107	~ 5 x ~ 10 x 1.0T_ FLAT WASHER		2	
108	~ 5/16" x ~ 18 x 1.5T_ FLAT WASHER	000077	1	
109	~ 5 x ~ 12 x 1.0T_ FLAT WASHER		1	
110	~ 5 x ~ 15 x 1.0T_ FLAT WASHER		2	
111	~ 6 x ~ 23 x ~ 13 x 5.5T x 3T_ NYLON DISHED WASHER		4	
112	~ 6.5 x 25 x 50 x 1.5Tx2.5H_ CONCAVE WASHER		4	
113	~ 10 _SPRING WASHER		4	
114	M3_ SPRING WASHER		1	
115	M5_ RAISED WASHER		4	
116	4x12m/m _SELF TAPPING SCREW	000070	4	
117	5x16m/m _TAPPING SCREW - Black	010110	59	
118	5x19m/m _TAPPING SCREW	010125	1	
119	3.5 x 6 m/m _SELF TAPPING SCREW		2	
120	5 x 16m/m _TAPPING SCREW - Black	010110	13	
121	3 x10m/m _SELF TAPPING SCREW	023082	2	
122	3.5 x 12 m/m _SELF TAPPING SCREW	010113	16	
124	3x10 m/m _TAPPING SCREW	010115	12	
125	4x38m/m _SELF TAPPING SCREW	000325	2	
126	3.5 x 16 m/m _TAPPING SCREW	022979	6	
127	3 x 10 m/m _SELF TAPPING SCREW	023082	2	
128	M5_ IRON PLATE NUT	010109	6	
130	5/16" x 1/2" _BUTTON HEAD SOCKET SCREW	000085	12	
131	COMBINATION M5 ALLEN WRENCH & PHILLIPS HEAD SCREW DRIVER	000089	1	
132	M6 ALLEN WRENCH	022973	1	
133	3 x 10 m/m _SELF TAPPING SCREW	023082	2	
134	3x 8m/m _SELF TAPPING SCREW		6	
135	PLASTIC WASHER		6	
136	FRONT MOTOR COVER	000590	1	
137	TOP MOTOR COVER PLATE	000589	1	
138	0.8T_ SPRING FOR CONSOLE		2	
	HARDWARE KIT	022680	1	
	FAN ASSEMBLY	000616	1	
	DECAL (SIDE)	000623	1	
	DECAL (CONSOLE)	000624	1	

Z900 Exploded View



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Z900A-A82 Part List_SPIRIT

NO.	DESCRIPTION	PART #	QTY.
1	MAIN FRAME		1
2	INCLINE BRACKET	000562	1
3	HANDRAIL SUPPORT	000634	1
4	RIGHT HANDRAIL	000632	1
5	LEFT HANDRAIL	000631	1
6	CONSOLE SUPPORT	000633	1
7	%20x40x1.5Tx680L_DECK CROSS BRACE	000611	1
8	~ 10_MAGNET	000507	2
9	DRIVE BELT - 240J/610J	022553	1
10	~ 110 x 75_FRONT ROLLER W/ PULLEY	000499	1
11	~ 75_REAR ROLLER	000500	1
12	1410 x 680 x 25T_RUNNING DECK	000492	1
13	560 x 3250 x 2.5T_RUNNING BELT	000495	1
14	~ 38 x 225m/m x 3T_HANDGRIP FOAM	000606	2
15	~ 38 x 295 m/m x 3T_CONSOLE SUPPORT FOAM	000605	2
16	0.6T_SPRING		2
17	WIRE TIE MOUNT	010083	5
18	LUBRICANT	022271	1
19	765x390L_BOTTOM FRAME COVER	000866	1
20	MOTOR - 3.0hp YC	000602	1
21	INCLINE MOTOR	022696	1
22	CONTROLLER	022882	1
23	1000 mm_SENSOR W/CABLE	022561	1
24	15A_BREAKER	022448	1
25	POWER SOCKET	022658	1
26	ON / OFF SWITCH	022476	1
27	POWER CORD	022812	1
28	100mm x 764 x 764_CONNECTING CABLE (BLACK)		1
29	150mm x 764 x 764_CONNECTING CABLE (WHITE)		1
30	150mm x 764 x 764_CONNECTING CABLE (BLACK)		1
31	800 mm_COMPUTER CABLE (UPPER)	022720	1
32	800 mm_COMPUTER CABLE (LOWER)	000503	1
33	1300 mm_COMPUTER CABLE (MIDDLE)	022719	1
34	800 mm_SPEED CABLE (UPPER)	022754	1
35	800 mm_INCLINE CABLE (UPPER)	022755	1
36	TRANSFORMER	022791	1
37	CONSOLE	000621	1
37~1	TOP CONSOLE COVER	000588	1
37~2	BOOK RACK (does not come as set)	000591	2
37~3	BEVERAGE HOLDER OF CONSOLE	000592	1
37~4	FACE PLATE LENS	000598	1
37~13	AUDIO CABLE - Speaker Amp. Harness	000565	1
37~14	SPEAKER	022946	2
37~16	2.3x6 m/m_SELF TAPPING SCREW	023105	41
38	290 m/m_SPEED ADJUSTMENT SWITCH W/CABLE	022558	1
39	290 m/m_INCLINE ADJUSTMENT SWITCH W/CABLE	022559	1
40	FRAME BASE CAP (R)	000608	1

41	FRAME BASE CAP (L)	000607	1	
42	FAN ASSEMBLY	000616	1	
42~1	BOTTOM FAN COVER		1	
42~2	TOP FAN COVER		1	
42~3	FAN SWITCH		1	
42~4	DEFLECTOR FAN GRILL		2	
42~5	FAN GRILL ANCHOR		4	
42~6	FAN		2	
43	M8 x ~ 30 x 35 58°±3_CUSHION	Softer = 30060	022482	6
44	~ 81 x35_WHEEL	023016	4	
45	TOP MOTOR COVER	000557	1	
47	1400m/m_FOOT RAIL	000532	2	
48	BEVERAGE HOLDER	000635	1	
49	~ 38 _BUTTON HEAD END CAP	022024	2	
50	HANDPULSE ASSY.	022672	2	
50~2	650 m/m_HANDPULSE CABLE	022756	1	
50~3	HANDPULSE ASSEMBLY TOP	022757	2	
50~4	HANDPULSE ASSEMBLY BOTTOM	022758	2	
50~5	HANDLE BAR END CAP	022759	2	
51	FRAME FRONT COVER	000599	1	
52	BOTTOM CONSOLE COVER	000596	1	
53	HANDGRIP SIDE CAP (R) Comes as SET	000610	2	
54	HANDGRIP SIDE CAP (L) Comes as SET		2	
55	REAR ADJUSTMENT BASE (L)	000612	1	
56	REAR ADJUSTMENT BASE (R)	000613	1	
57	MOTOR COVER ANCHOR	000922	2	
58	~ 24 x ~ 10 x 3T_NYLON WASHER(A)		2	
59	~ 50 x ~ 13 x 3T_NYLON WASHER(B)		4	
60	~ 38 x 3/8"_FOOT PAD	22713	2	
61	25 x 50_SQUARE END CAP	000630	4	
62	1/2" x 4 (13m/m)_BOLT CAP	000636	4	
63	SAFETY KEY	022945	1	
64	BELT GUIDE	000595	2	
65	1/2" x 57m/m_HEX HEAD SCREW		2	
66	3/8" x 4-1/2"_SOCKET HEAD CAP SCREW	000580	1	
67	3/8" x 4"_SOCKET HEAD CAP SCREW		1	
68	3/8" x 1-3/4"_HEX HEAD SCREW	020349	1	
69	M8 x 60m/m_HEX HEAD SCREW		1	
70	M8 x 80m/m_SOCKET HEAD CAP SCREW		2	
71	M8 x 50m/m_FLAT HEAD COUNTERSINK SCREW		2	
72	M8 x 30m/m_FLAT HEAD COUNTERSINK SCREW		6	
73	3/8" x 3/4"_BUTTON HEAD SOCKET SCREW	022999	4	
74	3/8" x 1"_HEX HEAD SCREW	000061	4	
75	1/2" x 15T_NYLON NUT		2	
76	3/8" x 7T_NYLON NUT	000080	2	
77	M8_NYLON NUT		1	
78	~ 19 x ~ 10 x 1.5T_FLAT WASHER		6	
79	~ 25 x ~ 10 x 1.5T_FLAT WASHER		4	
80	~ 5 x ~ 15 x 1.0T_FLAT WASHER		2	
81	~ 6.5 x 25 x 1.5T x 2.5H_CONCAVE WASHER		2	

82	M5 RAISED WASHER		3
83	~ 6.5 x 25 x 1.5T x 5.8H_CONCAVE WASHER		6
84	M5 IRON PLATE NUT	010109	6
85	~ 10 x1.5T_SPRING WASHER		4
86	5 x19 m/m_TAPPING SCREW	030057	1
87	5 x16 m/m_TAPPING SCREW - Black	010110	39
88	4x12 m/m_SELF TAPPING SCREW	000070	4
89	3.5x12 m/m_SELF TAPPING SCREW	010113	16
90	3.5x43 m/m_SELF TAPPING SCREW		8
91	3x10 m/m_SELF TAPPING SCREW	023082	2
92	5x16 m/m_TAPPING SCREW - Black	010110	13
93	3x10 m/m_TAPPING SCREW	010115	21
94	4x38 m/m_SELF TAPPING SCREW	000325	2
95	3x10 m/m_SELF TAPPING SCREW	023082	2
96	3.5 x16m/m_TAPPING SCREW	022979	5
98	3/8" _NUT		3
99	5/16" x 3/4"_BUTTON HEAD SOCKET SCREW	000100	4
100	5/16" x 1/2"_BUTTON HEAD SOCKET SCREW	000085	10
101	3/8" x 2"_BUTTON HEAD SOCKET SCREW	023090	2
102	3/8" x 2T_SPRING WASHER	000053	2
103	M3 x 18 m/m_TAPPING SCREW	022248	3
104	COMBINATION M5 ALLEN WRENCH & SCREWDRIVER	000089	1
105	M6 ALLEN WRENCH	022973	1
106	3 x 10 m/m_SELF TAPPING SCREW	023082	2
107	3x 8m/m_SELF TAPPING SCREW		6
108	PLASTIC WASHER		6
109	NON-SLIP RUBBER(L)	000313	1
110	NON-SLIP RUBBER(R)	000314	1
111	SENSOR RACK	022989	1
112	MOTOR FAN for CONTROLLER	000876	1
113	M4x35 m/m_TAPPING SCREW		2
114	NYLON NUT		2
115	~ 4 x ~ 10 x 1.0T_FLAT WASHER		2
116	250m/m_ BLACK CONNECTING CABLE OF MOTOR FAN	000637	1
117	250m/m_ WHITE CONNECTING CABLE OF MOTOR FAN	000538	1
	HARDWARE KIT	000614	1
	DECAL (SIDE)	000615	2
	DECAL (CONSOLE)	000624	1