

# Toshiba AW-G9930S Service Manual

Fully automatic washing machine



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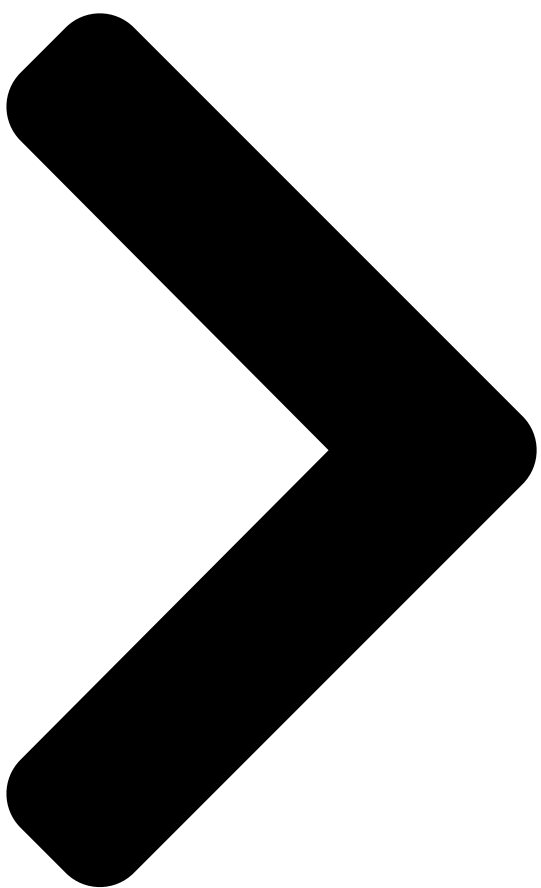
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FILE NO. B60-200310

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SERVICE MANUAL **TOSHIBA**

FULLY AUTOMATIC  
SERVICE MANUAL

WASHING MACHINE

FULLY AUTOM

AW-9500SER/SB/SBB

TOSHIBA

AW-9500SBJ/SBK/SBX

AW-G9930S/G1130S

PRINTED IN THAILAND, Oct., 2003 S

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Fully automatic washing machine (16 pages)

### [Washer Toshiba AW-8570SM Owner's Manual](#)

Fully automatic washing machine (20 pages)

### [Washer Toshiba AW-G9930S/G1130S Service Manual](#)

Fully automatic washing machine (53 pages)

### [Washer Toshiba AW-B1100GM User Manual](#)

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### [Washer Toshiba AW-J800A-PH Owner's Manual](#)

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### [Washer Toshiba AW-DC1000CM Owner's Manual](#)

Fully automatic washing machine (36 pages)

### [Washer Toshiba AW-J750APH Owner's Manual](#)

Fully automatic washing machine (24 pages)

## Summary of Contents for Toshiba AW-G9930S

[Page 1](#) All manuals and user guides at all-guides.com FILE NO. B60-200310 SERVICE MANUAL  
FULLY AUTOMATIC WASHING MACHINE AW-9500SER/SB/SBB AW-9500SBJ/SBK/SBX  
AW-G9930S/G1130S PRINTED IN THAILAND, Oct., 2003 S...

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35 10. EXPLODED VIEWS AND PARTS LIST .....38 1. SPECIFICATIONS Model  
AW-9500SER/SB/SBB AW-9500SBJ/SBK/SBX AW-G9930S/G1130S Revolution Wash 50Hz : 900  
rpm Spin Water Level High : 51 L Water Consumption...

### [Page 3: Cautions For Safety](#)

All manuals and user guides at all-guides.com 2. CAUTIONS FOR SAFETY • Please observe the following important notes on safety. • The notes mean as follows. Symbol Meaning Indicates possibility of death or serious injury of a repair technician and a person nearby WARNING through the misconducted work, or of a user by a defect of the product after the work performed by the technician.

[Page 4](#) All manuals and user guides at all-guides.com WARNING x After the end of working, measure insulation resistance between the charging part (power cord plug) and the non-charging metallic part (ground) with an insulation resistance meter (500 V) and check the resistance is 10 MΩ or more. Failing to check the insulation resistance may cause a short circuit, an electric shock or other CHECK INSULA- diseases to the customer.

### [Page 5: Cautions For Microcomputer Operation](#)

All manuals and user guides at all-guides.com CAUTION x Ask an electric work shop to install the product. Install the product securely and safely according to the electrical equipment technical standard and the wiring standard. INSTALL Incorrect work causes an electric shock and a fire. CAREFULLY x Do not pull the power cord when unplugging.

### [Page 6: Technical Point](#)

All manuals and user guides at all-guides.com 4. TECHNICAL POINT 4-1. EACH CYCLE SPECIFICATION The asterisk ( \* ) below denotes initial set-up. Course Wash Spin (Approx.) Object Clothes-handling label Water Level Rinse Approx. Time Required Shower rinsing Ordinary (2 times) About 16 to Standard Washing...

[Page 7](#) All manuals and user guides at all-guides.com 4-2. TIMER SEQUENCE CHART WASH RINSE SPIN SCHOWER RINSE RINSE 1 RINSE 2 Fill water CYCLE WATER LEVEL 1'34"~ 9"~ 9"~ 42"~ 42"~ 1'50"~ 42"~ 1'30" 4'~12" 5" 10" 10" 10" 2'~3'34" 10" 1'~9"...

[Page 8](#) All manuals and user guides at all-guides.com SOAK COURSE SOAK RINSE SPIN SCHOWER RINSE RINSE 1 RINSE 2 CYCLE WATER LEVEL 10"~ 9"~ 9"~ 42"~ 42"~ 1'50"~ 1'50"~ 2'20"~ 1'30" 10" 10" 10" 2'~6'10" 10" 1'~9" 10" 6" 3h" 18" 1'11"...

### [Page 9: Installation](#)

All manuals and user guides at all-guides.com 5. INSTALLATION Adjust the legs so that the machine does not move. 1. After adjustment, lock the nuts of the legs by rotating them in the direction of the arrow (B) Make sure so that the bottom of the main body front does not reach the floor. If the bottom is in touch with the floor, then it will be the cause of shaking and abnormal noise.

### [Page 10: Schematic Diagram](#)

All manuals and user guides at all-guides.com 6. SCHEMATIC DIAGRAM 6-1. AW-9500S, AW-G9930S, AW-G1130S CABINET A.C. SOURCE LID SWITCH REED EARTH SWITCH WATER LEVEL SENSOR OR L.G. PCB UNIT L.B. INTAKE VALVE MOTER GEARD MOTOR B --- Black L.G --- Light Green PK --- Pink BR --- Brown OR --- Orange...

### [Page 11: Checking Procedures](#)

All manuals and user guides at all-guides.com 7. CHECKING PROCEDURES 7-1. Warning and Caution at Troubleshooting WARNING x Advise the customer to keep children out of the work place. Children may be injured with a tool or a disassembled part. OUT OF CHILD x Unplug the power cord for the work unnecessary to power on like disassembling.

[Page 12](#) AW-9500SER / SB / SBK AC 230 - 240 V AW-9500SBB / SBJ / SBX AC 220 V AW-G9930S / G1130S AC 110 V (5) The radiator plate of the program timer is hot immediately after the operation. Take care not to suffer burns.

[Page 13](#) All manuals and user guides at all-guides.com 7-2. WARNING ALARM (1) Failure symptoms When something is wrong or accident with the washing machine like the operation error, the draining failure, the spinning failure, warn the alarm and indicate the error to stop the cycle. Indication Failure symptoms Cause...

[Page 14](#) All manuals and user guides at all-guides.com Indication Failure symptoms Cause

Remedy Countermeasure for failure ☆ MOTOR FAILURE E7-1 Power switch OFF Confirm the connection and lead → Motor does not rotate Whether the motor does not rotate wire of the program timer. ☆...

[Page 15](#) All manuals and user guides at all-guides.com (2) Failure diagnosis with E7 failure error message The E7 error message is classified into E7-1 to E7-4, moreover each message is shown with digital display flashing alternately. So, perform the failure diagnosis by referring to the message obtained in the field. If the message is not clear, perform the same diagnosis as in the E7-4.

[Page 16](#) All manuals and user guides at all-guides.com E 7 - 2 Check voltage across CN1 black and CN4 Perform Inspection mode setting Lead wire unit connector disconnected violet in the standby status. procedure 1) and 2). (Setting to or lead wire breakdown Is AC 220 V\* obtained? standby status.) Press the PRESET button to set motor inverse...

[Page 17](#) All manuals and user guides at all-guides.com E 7 - 4 Press the COURSE and PRESET button, and No rotate Perform Inspection mode setting To "A" check forward and inverse rotation of the procedure 1) and 2). (Setting to pulsator. standby status.) Rotate No abnormality...

[Page 18](#) All manuals and user guides at all-guides.com (3) Electrical part failure diagnosis (check with inspection mode) PART Failure diagnosis method Motor Inspection mode 1 Water intake valve Check voltage at locations to be Associated electrical parts may be Drain valve motor tested under standby status.

[Page 19](#) (Whether it is warning alarm condition.) (4) Whether a slender extension Replace it to Toshiba's hose  $\phi$  25 which is not Toshiba's optional extension hose. option is used. (Part No. 42T40017) (Whether it is warning alarm condition.)

[Page 20](#) All manuals and user guides at all-guides.com Diagnosis Check Point Remedy Poor drain (5) Whether the drain hose is connected to the drain pipe Make a gap. No drain tightly. (Whether it is warning alarm condition.) Hard to drain A gap A gap should be more than 3 cm.

[Page 21](#) All manuals and user guides at all-guides.com Diagnosis Check Point Remedy (1) Whether foreign matter is caught on the pulsator. After repairing, press the Abnormal noise START/HOLD button (2) Whether the machine is placed on a firm and flat floor. occurs again.

[Page 22](#) All manuals and user guides at all-guides.com Diagnosis Check Point Remedy While the power cord is plugged in, the surface and around This is not trouble. The control panel the control panel are warmed. This is caused by the heat is warmed.

## [Page 23: Disassembly Instructions](#)

All manuals and user guides at all-guides.com 8. DISASSEMBLY INSTRUCTIONS 8-1. Warning and Caution at Disassembly WARNING x Advise the customer to keep children out of the work place. Children may be injured with a tool or a disassembled part. OUT OF CHILD x Unplug the power cord for the work unnecessary to power on like disassembling.

[Page 24](#) All manuals and user guides at all-guides.com 8-2. DISASSEMBLY INSTRUCTIONS When reassembling, perform the disassembling procedures in reverse order unless otherwise specified. Parts Procedure ( : Notes) Illustrations (1) Program The program timer is susceptible to static timer electricity and may be damaged. So, always discharge the electricity before repairing.

[Page 25](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (2) Water intake 1) Remove the detergent case. valve, Water feed 2) Remove 2 back cover mounting screws at case assy rear. (Photo. 5) 3) Remove the back cover by inserting a screwdriver (-) from the lower end of the bottom.

[Page 26](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (3) Lid switch 5) Stand the top cover on the cabinet by supporting it with a wall etc.. In this case, place a towel between the lead wires and the cabinet to prevent the leads from damage at upper side of the cabinet.

[Page 27](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations

(4) Water level 1) Remove the top cover according to the (3) sensor Lid switch disassembly procedures # 1) to 5). (Always disconnect the lead wire from the cabinet first.) 2) Disconnect lead wires of the water level sensor (connector 3P).

[Page 28](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (6) Drain valve 1) Put down the machine to the front. motor Note 1 : Spread a blanket on the floor and put the machine on it. Then a little water may flow out from the machine.

[Page 29](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations 1) Remove the rear lid (6 screws). (8) Motor 2) Remove wire harness from the cord clamber (1 screw) and remove the lead wire bundle. Then take off vinyl tape and disconnect the enclosure connector of lead wires on the motor.(Photo).

[Page 30](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations 1) Remove the top cover according to the (8) (9) Revolution Motor disassembly procedures # 1) to 8). sensor 2) Remove the revolution sensor while rotate counterclockwise pushing 3 cathodes of the revolution sensor.

[Page 31](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (11) Wash tub Note 1 : If you put the wash tub directly on the (Spin basket) floor, it may damage the floor. Put it on the cloth. Note 2 : As you change the wash tub, use the gloves to prevent the injury from sharp edge.

[Page 32](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (12) Drive assembly Clutch lever adjusting screw Follow the reverse order of removal. Brake lever Note 1 : Be careful not to let matter such as grease or oil adhere to the surface of the brake drum.

[Page 33](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations 1) Open the lid and remove the control panel (13) Reed switch according to the steps 1) to 4) of (1) Program timer. 2) Detach the connector from the reed switch. 3) Remove 2 screws of the top cover rear and lift top cover front.

[Page 34](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations 10) Remove the motor according to the steps 3) (14) Tub to 7) of (8) Motor. 11) Remove the drive assembly according to the steps 1) to 10) of (12) Drive assembly. 12) Remove the capacitor by removing two mounting screws (φ...

[Page 35](#) All manuals and user guides at all-guides.com Procedure ( : Notes) Parts Illustrations (15) Spring 1) Keep standing the top cover according to assembly the steps 1) to 5) of (3) Lid switch. Holder 2 2) Remove the holder 2 from the cabinet Cabinet reinforcement plate.

## [Page 36: Check Points After Repairing](#)

All manuals and user guides at all-guides.com 9. CHECK POINTS AFTER REPAIRING 9-1. Warning and Caution After Repairing WARNING x After the end of working, measure insulation resistance between the charging part (power cord plug) and the non-charging metallic part (ground) with an insulation resistance meter (500 V) and check the resistance is 10 MΩ...

[Page 37](#) All manuals and user guides at all-guides.com After repairing by parts replacement, etc., be sure to make the following trial operation to see if the set operates normally. Check points Inspection and judgement Measuring instrument (1) Insulation resis- Unplug the cord from the power outlet. DC 500 V megger.

[Page 38](#) All manuals and user guides at all-guides.com Check the washing amount sensor In case of adjusting or replacing the electric timer. belt or drive assembly, check the washing amount sensor in the following steps. <Procedures> (1) Check to see that no water or clothes remaining in the tub. (If something remains in the tub, it may cause faulty result.) (2) Connect the power plug.

## [Page 39: Exploded Views And Parts List](#)

All manuals and user guides at all-guides.com 10. EXPLODED VIEWS AND PARTS LIST 10-1. Cabinet Assembly MOTOR SIDE MOTOR (FRONT) ANTI - MOTOR SIDE SIDE (FRONT) (BACK) ANTI - MOTOR SIDE (BACK) POWER CORD BIND TAPPING SCREW M4 x 16s M4 x 10s TAPPING

SCREW...

[Page 40](#) All manuals and user guides at all-guides.com Location Part No. Description  
42T00022 Cabinet 42T00045 Cabinet 42T07003 Caster 42T07004 Caster, Adjustable 42T40014  
Hose, Drain 42T77045 Power Cord, EM 42T77018 Power Cord, 3S 42T77022 Power Cord, 3P  
42T77017 Power Cord, 3P 42T77062 Power Cord, EM 42T78003 Clamper, Cord...

[Page 41](#) All manuals and user guides at all-guides.com 10-2. Top Cover Assembly TAPPING  
SCREW M4 x 16S - 40 -...

[Page 42](#) All manuals and user guides at all-guides.com Location Part No. Description  
42T01005 Cover, Top 42T01011 Cover, Top \_ 102 42T43016 Case, Inlet, Assy \_ 102 42T43018  
Case, Inlet, Assy 42T42016 Case, Detergent 42T42018 Case, Detergent 42T41006 Tube, Air \_  
106 42T69001 Switch, Lid 42T78004...

[Page 43](#) All manuals and user guides at all-guides.com 10-3. Panel Assembly TRUSS HEAD  
TAPPING SCREW M4 x 16S TRUSS HEAD TAPPING SCREW M4 x 16S - 42 -...

[Page 44](#) All manuals and user guides at all-guides.com Location Part No. Description \_ 201  
42T77047 Wire, Lead Unit \_ 201 42T77043 Wire, Lead Unit 42T05020 Cover, Back 42T05032  
Cover, Back 42T04196 Panel, Control 42T04197 Panel, Control 42T04198 Panel, Control  
42T04199 Panel, Control 42T04208 Panel, Control 42T04209...

[Page 45](#) All manuals and user guides at all-guides.com 10-4. Body Assembly BIND TAPPING  
SCREW M5 x 20S BIND TAPPING SCREW M5 x 20S - 44 -...

[Page 46](#) All manuals and user guides at all-guides.com Location Part No. Description  
42T20021 Tub, Assembly \_ 302 42T71025 Capacitor, 425V, 12MFD \_ 302 42T71027 Capacitor,  
425V, 12MFD \_ 302 42T71023 Capacitor, 425V, 15MFD \_ 302 42T71026 Capacitor, 425V, 15MFD  
\_ 302 42T71024 Capacitor, 230V, 54MFD \_ 303...

[Page 47](#) All manuals and user guides at all-guides.com 10-5. Drive Assembly TAPPING SCREW  
M6 x 25S (6P) TAPPING SCREW M8 x 16S TAPPING SCREW M8 x 25S - 46 -...

[Page 48](#) All manuals and user guides at all-guides.com Location Part No. Description  
42T56001 Spring, Clutch 42T29008 Bracket, Packing 42T58012 Pulley, Pulsator 42T55004 Case,  
Bearing \_ 406 42T51012 Shaft, Spin Assy 42T51011 Shaft, Spin - 47 -...

[Page 49](#) All manuals and user guides at all-guides.com 10-6. Motor and Packaging Assembly -  
48 -...

[Page 50](#) All manuals and user guides at all-guides.com Location Part No. Description \_ 501  
42T65032 Motor \_ 501 42T65033 Motor \_ 501 42T65029 Motor \_ 502 42T75003 Sensor, Case,  
Assy 42T51009 Cushion, Motor 42T58011 Pulley, Motor 42T57006 Belt, V Type 42T90285  
Carton Box 42T90286 Carton Box...

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