



Toshiba TDP-MT8 Service Manual

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FILE NO. 330-200209

TOSHIBA
TDP-MT8

TDP-MT8

DOCUMENT CREATED IN JAPAN, Nov., 2002

SERVICE MANUAL

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and Reseat the Cable88 Check the Thermal Switch91 Parts
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[Page 3: Safety Precautions](#)

The exclamation point within an WARNING: Changes or modifications made to this equipment, not expressly approved by equilateral triangle is intended to Toshiba, or parties authorized by Toshiba, could void the user's authority to operate alert the user to the presence of the equipment.

[Page 4](#) IMPORTANT SAFETY INSTRUCTIONS CAUTION: PLEASE READ AND OBSERVE 1. Read Owner's Manual 3. Source of Light ALLWARNINGS AND After unpacking this product, read the Do not look into the lens while the lamp INSTRUCTIONS GIVEN IN THIS owner's manual carefully, and follow all is on.

[Page 5: Parts Replacement](#)

You can also see a flow chart of parts removal. The FRU Hierarchy on page 6 shows a chart of which parts must be removed to access any replaceable part in the projector. Generally, the replacement procedure is the reverse of the removal process. Sometimes you will find special instructions under Assembly Notes. TDP-MT8 Service Guide...

[Page 6: Removable Parts Hierarchy](#)

Power supply/ Elevator shaft ballast cable Lamp blower Lamp connector contact ECA retainer Ballast Leveling foot shaft Ballast/power Chassis supply insulator Power supply Safety switch Optical engine Elevator spring Optical engine Elevator actuator mounting bracket Bottom case TDP-MT8 Service Guide...

[Page 7: Remove And Replace The Ballast](#)

Outer handle (see page 41) Rear bezel (see page 51) Top case (see page 57) Controller ECA (see page 16) Remove the two M3x6 Torx screws from the lamp connector retainer on the front of the chassis. TDP-MT8 Service Guide...

[Page 8](#) Squeeze the latch on the side of the power supply/ballast cable connector to release it. (The illustrations below show the ballast already removed so you can see it more clearly.) Remove the two M3x8 screws that fasten the ballast to the chassis. Lift the ballast away from the chassis. TDP-MT8 Service Guide...

[Page 9](#) Position the bottom of the ballast in the slots in the chassis. Make sure the two screw holes in the ballast align with the threaded standoffs on the wall of the chassis. ♦ Install and torque the two M3x8 Torx screws to 6 in/lbs (.68 Nm). TDP-MT8 Service Guide...

[Page 10: Remove And Replace The Ballast/Power Supply Insulator](#)

Position the ballast/power supply insulator in the chassis so that the holes in the bottom of the insulator align with the ballast mounting slots and power supply standoffs that protrude from the floor of the chassis. Then press the insulator over the ballast mounting standoffs on the front of the chassis. TDP-MT8 Service Guide...

[Page 11: Remove And Replace The Bottom Case](#)

Remove the serial number label from the certification label. To do this, carefully use a heat gun or hair drier to soften the adhesive on the back of the label, then peel it off. Do not lose the serial number. It is not a replaceable part. TDP-MT8 Service Guide...

[Page 12](#) Use new rubber feet if the adhesive was damaged when you removed the old ones from the old bottom case. ♦ Replace the parts in the bottom case reversing the order you used to remove them. TDP-MT8 Service Guide...

[Page 13: Remove And Replace The Chassis](#)

Outer handle (see page 41) Rear bezel (see page 51) Top case (see page 57) Controller ECA (see page 16) Rear IR receiver (see page 47) Remove the four M3x8 Torx screws that fasten the chassis to the bottom case. TDP-MT8 Service Guide...

[Page 14](#) Remove the M3x8 Torx screw from the side of the chassis above the power supply ground terminal. Remove the two M3x6 Torx screws from the lamp connector retainer on the front of the chassis. The lamp connector and lamp connector retainer remove with the chassis.

Lift the chassis from the bottom case. TDP-MT8 Service Guide...

[Page 15](#) Install the parts in the reverse order. ♦ Torque the two M3x6 Torx screws on the lamp connector retainer to 6 in/lbs (.68 Nm). ♦ Torque the five M3x8 Torx screws that secure the chassis in the projector to 6 in/lbs (.68 Nm). TDP-MT8 Service Guide...

[Page 16: Remove And Replace The Controller Eca](#)

Top case (see page 57) Unplug the two fan cables, the front, rear and two side IR receiver cables, the photodiode cable, the light tunnel heater cable, and the color wheel ribbon cable from the controller ECA. TDP-MT8 Service Guide...

[Page 17](#) Remove the seven M3x8 Torx screws that fasten the controller ECA to the chassis. Lift the controller ECA over the optical engine to release the DMD/controller connector. Lift the controller out of the projector. **WARNING** Make sure to store the controller ECA in a static-safe container. TDP-MT8 Service Guide...

[Page 18](#) Plug in the two fan cables, the front, rear and two side IR receiver cables, the photodiode cable, the light tunnel heater cable, and the color wheel ribbon cable. Go to page 88 if you need help with the color wheel ribbon cable. TDP-MT8 Service Guide...

[Page 19: Remove And Replace The Elevator](#)

Use a small screwdriver to move the elevator actuator toward the right side of the projector. This disengages the actuator and allows the elevator shaft to travel freely up and down. Keep the actuator in this position as you complete the next step. TDP-MT8 Service Guide...

[Page 20](#) Remove the Elevator Spring and Actuator Remove the elevator shaft, then remove the: Optical engine (see page 22) Use a small screwdriver or angled pick to remove the elevator spring from the slot in the elevator actuator. TDP-MT8 Service Guide...

[Page 21](#) Install the elevator actuator first and move it as far to the right as possible. The install the elevator shaft. ♦ Move the actuator to the left as far as possible. Then press the elevator spring into the slot in the actuator. A tab on the actuator holds the spring in its recess. TDP-MT8 Service Guide...

[Page 22: Remove And Replace The Optical Engine](#)

Projection lens – focuses or changes the size of the image produced by the DMD Remove the following items: Lamp door and lamp module Outer handle Rear bezel Top case Inner handle and front vent Controller ECA Remove the M3x8 Torx screw that fastens the optical engine to the chassis. TDP-MT8 Service Guide...

[Page 23](#) Place the engine on a static-free surface or in an ESD-protected container. Assembly Note ♦ Make sure the engine aligns with the holes in the mounting bracket. Torque all five of the M3x8 Torx screws to 6 in/lbs (.68 Nm). TDP-MT8 Service Guide...

[Page 24: Remove And Replace The Optical Engine Mounting Bracket](#)

Controller ECA (see page 16) Optical engine (see page 22) Remove the M3x8 Torx screw that fastens the lip at the front of the chassis to the bottom case. It is not necessary to remove any of the other chassis screws. TDP-MT8 Service Guide...

[Page 25](#) Make sure the bracket aligns with the holes in the bottom case. Torque the three M3x8 Torx screws to 6 in/lbs (.68 Nm). ♦ Torque the M3x8 Torx screw at the front of the chassis to 6 in/lbs (.68 Nm). TDP-MT8 Service Guide...

[Page 26: Remove And Replace The Fan Assembly](#)

You don't need to separate either fan from the fan bracket if you're removing the fan assembly to gain access to other FRUs in the projector. Flex the fan bracket slightly to disengage one of the fan mounts from its retainer. TDP-MT8 Service Guide...

[Page 27](#) Plug the cable from the fan nearest the lamp into connector J506 on the controller ECA. The cable from the fan nearest the power supply plugs into connector J517 on the controller ECA. ♦ Plug the cable from the left IR receiver into connector J508 on the controller

[Page 28: Remove And Replace The Focus And Zoom Rings](#)

Place the projector right side up on a soft work surface. Grasp the focus ring and pull it off of the lens barrel. The retainer slots disengage the pins on the lens. TDP-MT8 Service Guide...

[Page 29](#) Gently pry the retainer tab away from the lens. The tab releases the engagement hole on the lens barrel. Gently pull forward on the zoom ring and repeat step 3 for the other two retainer tabs. TDP-MT8 Service Guide...

[Page 30](#) Align the three slots on the focus ring with the three alignment pins on the end of the lens barrel. Press the focus ring into place. Rotate the focus ring to ensure that the slots properly engage the alignment pins. ♦ Place the lens cap over the focus ring. TDP-MT8 Service Guide...

[Page 31: Remove And Replace The Front Ir Receiver](#)

Rear bezel (see page 51) Top case (see page 57) Unplug the front IR receiver cable it from J500 on the controller ECA. Slide the front IR receiver upward and out of the alignment slots in the inner handle. TDP-MT8 Service Guide...

[Page 32](#) Route the cable to the left of the front IR receiver ECA and through the saddle at the top of the inner handle. ♦ Make sure that the front IR receiver ECA properly engages the alignment slots in the inner handle. ♦ Connect the cable to J500 on the controller ECA. TDP-MT8 Service Guide...

[Page 33: Remove And Replace The Inner Handle And Front Vent](#)

You don't need to separate the front vent from the inner handle if you're removing the inner handle to access other FRUs in the projector. Use the small flat blade screwdriver to disengage the tab on the opposite side of the front vent from the slot on the inner handle. TDP-MT8 Service Guide...

[Page 34](#) ♦ Position the front vent in the slots in the bottom case. Make sure that it fits properly and that the side of the fan bracket rests in the vertical slot along the back of the vent. TDP-MT8 Service Guide...

[Page 35: Remove And Replace The I/O Emi Shield](#)

Carefully pull the I/O EMI shield off of the connectors. Take care not to bend the shield or the fingers as you work the shield off. Assembly Notes ♦ Make sure the fingers on the shield contact the connectors. ♦ Torque the jack screws to 2 in.-lbs (.226 Nm). TDP-MT8 Service Guide...

[Page 36: Remove And Replace The Keypad](#)

Position the reflector in the recess on the inside of the top case. Press the reflector firmly against the top case. ♦ Make sure that the collar on each key fits flush against its hole in the top case. ♦ Torque the eight M3x6 Plastite Torx screws to 4 in.-lbs. (.452 Nm). TDP-MT8 Service Guide...

[Page 37: Remove And Replace The Lamp Door And Lamp Module](#)

The lamp module gets very hot during operation. Allow the lamp to cool for 30 minutes before handling it. Place the projector upside down on a soft work surface. To remove the lamp door, loosen the two captive screws that secure it to the projector. TDP-MT8 Service Guide...

[Page 38](#) After you reset the lamp timer, read the timer value to make sure it was reset. Navigate to the About screen from the Main Menu, then view the Lamp Hour value. It should show 0 hours. TDP-MT8 Service Guide...

[Page 39: Remove And Replace The Leveling Foot](#)

Remove the M3x8 Plastite Torx screw in the center of the knob. Remove the leveling foot shaft Remove the leveling foot knob, then remove the following items: Top case (see page 57) Controller ECA (see page 16) Chassis (see page 13) TDP-MT8 Service Guide...

[Page 40](#) Press the rubber foot into the hole over the screw head. Use a replacement rubber foot if the adhesive fails to hold the old foot tightly in place. ♦ Adjust the leveling foot knob to be level with the bottom of the projector. TDP-MT8 Service Guide...

[Page 41: Remove And Replace The Outer Handle](#)

Gently pry the edge of the outer handle away from the projector. CAUTION Don't pry against the focus ring or lens. Pull the handle away from the projector. The pins on the handle disengage from the holes on the front of the projector. TDP-MT8 Service Guide...

[Page 42](#) Position the outer handle against the front of the projector so that the pins align with the holes in the top and bottom case tabs. Then press the outer handle into place against the front of the projector. TDP-MT8 Service Guide...

[Page 43: Remove And Replace The Power Supply](#)

ECA cable from P1, the ballast/power supply cable from J1 and the lamp control cable from J4 on the power supply. Squeeze the latches on the power supply/controller ECA cable and the power supply/ballast cable connectors to release them. TDP-MT8 Service Guide...

[Page 44](#) Use a Torx T-10 screwdriver to remove the seven M3x8 screws that fasten the power supply to the chassis. Lift the forward side of the power supply to allow the AC line connector to pass through the hole in the chassis. Then lift the power supply away from the chassis. TDP-MT8 Service Guide...

[Page 45](#) Use a small flat blade screwdriver to disengage the fuse from the fuse holder on the back side of the power input connector. Replace the fuse by pressing it into the fuse holder. Make sure the fuse is properly engaged at each end of the fuse holder. TDP-MT8 Service Guide...

[Page 46](#) ECA cable to P1, the ballast/power supply cable to J1 and the lamp control cable to J4 on the power supply. ♦ Make sure that you route the safety switch cable through the eye at the front left side of the chassis. TDP-MT8 Service Guide...

[Page 47: Remove And Replace The Rear And Side Ir Receivers And Lenses](#)

Unplug the rear IR receiver cable from J518 on the controller ECA. Remove the two M3x8 Torx screws that fasten the rear IR receiver to the chassis. Assembly Notes ♦ Route the cable to the inside of the rear IR receiver ECA. TDP-MT8 Service Guide...

[Page 48](#) Unplug the left side IR receiver from J508 or the right side IR receiver from J514 on the controller ECA. Gently pull upward on the lens tab to disengage the slot from the tab on the IR receiver. TDP-MT8 Service Guide...

[Page 49](#) Remove the lens from the bottom case using a small flat blade screwdriver. Gently pry the slot on either vertical side of the lens away from the tab on the bottom case. Push the lens outward through the side of the bottom case. TDP-MT8 Service Guide...

[Page 50](#) Route the cable on the left IR receiver through the large notch at the top middle of the fan bracket. • Connect the cable on the left side IR receiver to J508 or the cable on the right side IR receiver to J514 on the controller ECA. TDP-MT8 Service Guide...

[Page 51: Remove And Replace The Rear Bezel](#)

Pull the rear bezel away from the projector. Remove the rear IR lens and save it for use with the replacement rear bezel. Press on one of the tabs on the lens to disengage it from the rear bezel. TDP-MT8 Service Guide...

[Page 52](#) Position the security plate in the recess on the inside of the rear bezel. Press the plate firmly against the rear bezel. ♦ Torque the two M3x8 Torx screws to 6 in/lbs (.68 Nm) TDP-MT8 Service Guide...

[Page 53: Remove And Replace The Rear Bezel Feet](#)

Gently peel the foot away from the bezel. You don't need to remove any adhesive remaining on the rear bezel after you remove the foot. To replace a bezel foot, peel the protective paper from the replacement foot. Then press the foot into the recess on the rear bezel. TDP-MT8 Service Guide...

[Page 54: Remove And Replace The Rubber Feet](#)

To replace a rubber foot, peel the protective paper from the replacement foot. Then press the foot into the recess in the bottom case. If you need to remove an old rubber foot, gently pry it away from the bottom case. TDP-MT8 Service Guide...

[Page 55: Remove And Replace The Safety Switch And Lamp Connector Retainer](#)

Remove the two M2x8 Torx screws that fasten the safety switch to the chassis. Then remove the safety switch cable from the eye on the chassis. Remove the safety switch from the chassis. TDP-MT8 Service Guide...

[Page 56](#) ♦ Torque the M3x6 Torx Plastite screw to 3 in/lbs (.34 Nm). ♦ After you install the safety switch, route the cable through the eye on the chassis. Connect the cable to J3 on the power supply. TDP-MT8 Service Guide...

[Page 57: Remove And Replace The Top Case](#)

Place the projector right side up on the bench, and then remove the two black M3x8 Torx screws from the bottom case. Slowly lift the top case away from the projector. Avoid stress on the cables that run between the top case and controller ECA. TDP-MT8 Service Guide...

[Page 58](#) Connect the keypad lamp blower contact ECA cable, the speaker cable and the keypad cable. ♦ Make sure that the top case fits flush over the bottom case. ♦ Torque the two black M3x8 Torx screws to 6 in.-lbs. (.678 Nm). TDP-MT8 Service Guide...

[Page 59: Remove And Replace The Top Case Parts](#)

Place the top case face down on a soft work surface. Keypad Parts Remove the eight black M3x6 Plastite Torx screws that fasten the keypad to the top case. Then lift the keypad ECA out of the recess in the top case. TDP-MT8 Service Guide...

[Page 60](#) Gently lift the key set out of the top case. Use a small flat blade screwdriver to lift one corner of the keypad reflector. Then lift the reflector out of the keypad recess in the top case. TDP-MT8 Service Guide...

[Page 61](#) Position the reflector in the recess on the inside of the top case. Press the reflector firmly against the top case. ♦ Make sure that the collar on each key fits flush against its hole in the top case. ♦ Torque the eight black M3x6 Plastite Torx screws to 4 in.-lbs. (.452 Nm). TDP-MT8 Service Guide...

[Page 62](#) Assembly Notes ♦ Make sure that the pin on the inside of the top case engages the hole in the lamp blower contact ECA. ♦ Torque the two black M3x8 Plastite Torx screws to 4 in.-lbs. (.452 Nm). TDP-MT8 Service Guide...

[Page 63](#) Elevator Button Use a small flat blade screwdriver to depress the retainer tab on the side of the elevator button. Slide the button out of the top case. TDP-MT8 Service Guide...

[Page 64: Functional Tests](#)

PowerPoint presentation (http://www.infocus.com/service/software/downloads/test_screens.exe) PC with digital video and sound Make sure the card has an M1 Digital Video Interface (DVI) output card port. The computer must have a CD-ROM and a standard VESA connector for analog output. TDP-MT8 Service Guide...

[Page 65: Before Beginning](#)

Verify there is no distortion, noise or other video abnormalities. video Software Version / Keystone / Factory Reset Verify that the keystone adjustment works properly. 1. Press and hold the Keystone up and Keystone down Verify software version. button on the keypad. TDP-MT8

Service Guide...

[Page 66](#) Verify that the image remains in focus when the Image Shift knob is tests. turned. Image #2: Color Ramp Project the Color Ramp image. Verify there are no missing parts of the ramp. TDP-MT8 Service Guide...

[Page 67](#) Trigger 2 should read 12VDC whenever the projector is powered on and 12V trigger port test in 16:9 display mode. Power Down Verify unit is powered off before disconnecting cables. After all tests are complete, turn the power off and disconnect all cables. Attach the lens cap. TDP-MT8 Service Guide...

[Page 68: Troubleshooting](#)

Power problems, including lamp issues, partial power up, shutdown and no power (page 69) Image problems, including no image, bad color, dim image and other picture distortions (page 77) Keypad problems (page 81) Remote problems (page 82 Audio problems (page 83) TDP-MT8 Service Guide...

[Page 69: Power And Start-Up Problems](#)

Power and Start-up Problems Troubleshooting TDP-MT8 power problems is different from prior projectors. The TDP-MT8 communicates its status via an LED located on the keypad. When this status LED is green, you know that the projector is working properly. When the status LED is solid red or flashing red, you know there are lamp, power or startup problems.

[Page 70](#) Confirm that unit is command or is good by starting again. operating normally. A flashing green Replace keypad ECA means the (page 36)) projector is either attempting to light the lamp or is shutting down. TDP-MT8 Service Guide...

[Page 71](#) Run the projector long enough to ensure (page 16) that the problem is solved. If the lamp goes out and the LED turns red, go to error codes (page 72). Repeat process to confirm the problem fixed. TDP-MT8 Service Guide...

[Page 72](#) Diagnose lamp strike failure. Replace the lamp. Diagnose lamp shutdown. (page 73) (page 37) (pag 74) 4 flashes 5 flashes A fan failed. The projector detects high internal temperature. Check the fans. Diagnose thermal problems. (page 26) (pag 75) TDP-MT8 Service Guide...

[Page 73](#) Voltages good Replace power Replace the ballast. at power supply/ supply. (page 7) controller (page 43) connector? (page 85) Solve the problem? Replace controller ECA (page 16) Verify the repair by restarting the Power Diagnosis process. (page 70) TDP-MT8 Service Guide...

[Page 74](#) LED flash a repeated single-flash sequence indicating that the lamp won't strike. Click here to go to solve failure to strike problems. (page 73) Repeat the diagnostic process to ensure that the problem is solved. TDP-MT8 Service Guide...

[Page 75](#) (page 43) thermal breakdown problem. Replace the controller ECA. Solve the (page 16) problem? Run the projector long enough to confirm the problem issolved. Repeat the diagnosis process. (page 70) TDP-MT8 Service Guide...

[Page 76](#) ECA. Replace the controller ECA. (page 16) (page 16) Does the color Replace the optical engine. wheel start and the (page 22) lamp light? To confirm that the problem is solved, restart the diagnosis process. (page 70) TDP-MT8 Service Guide...

[Page 77: Image Problems](#)

Vertical or horizontal Missing logo, VGA, composite video, focus lines. or S-video (page 80) Sparkley picture. Distorted image, noisy, rolling, torn, Clusters of dark pixels. frozen, 'plaid', repeated, or shifted (page 78) image (page 79) TDP-MT8 Service Guide...

[Page 78](#) No image No image. Vertical lines. Horizontal lines. Sparkly picture. Clusters of dark pixels. Replace the controller ECA. (page 16) Is the image correct? Replace the optical engine. (page 22) TDP-MT8 Service Guide...

[Page 79](#) Missing startup screen, VGA, composite video or S-video. Distorted image, excess

noise, rolling image, torn image, frozen image, 'plaid' image, repeated single image, or shifted image. Make sure cables are good. Is the image correct? Replace the controller ECA. (page 16) TDP-MT8 Service Guide...

[Page 80](#) Replace the lamp Is correct Is the image (page 37) voltage brighter? present? Substitute a known good controller ECA (page 16) Replace the Is the image controller ECA brighter? (page 16) Replace the optical engine (page 22) TDP-MT8 Service Guide...

[Page 81: Keypad Problems](#)

There are IR lenses on all four sides of the projector. Make sure you try the remote through at least two lenses. If one or more IR receivers do not work, go to Remote problems. (page 82) TDP-MT8 Service Guide...

[Page 82: Remote Problems](#)

Replace the malfunctioning IR from any of the IR receiver(s) receivers? Front IR receiver. (page 31) Right or left IR receiver or rear IR receiver. Replace the controller ECA. (page 47) (page 16) TDP-MT8 Service Guide...

[Page 83: Audio Problems](#)

Run the projector with audio for 30 minutes. If the problem returns, replace both the controller ECA and the top case if the resistance across either speaker coil no longer measures approximately 16 ohms. Problem solved. TDP-MT8 Service Guide...

[Page 84: Block Diagram](#)

Block Diagram TDP-MT8 Service Guide...

[Page 85: Check Controller Voltages](#)

Check Controller Voltages To check voltages, you need to power up the projector with the top case removed. See page 86 for instructions on how to do this. TDP-MT8 Service Guide...

[Page 86: Power Up With Top Case Removed To Check Fans And Voltages](#)

CAUTION When you start the projector, there is voltage present on the controller ECA and power supply. Be very careful where you probe and where you touch. Do one or all of the following: Check controller ECA voltages (see page 85) Check the thermal switch (see page 91) TDP-MT8 Service Guide...

[Page 87](#) If the lamp blower fails to operate, replace the lamp module (see page 37). If one of the fans fails to operate, remove the fan assembly and replace the defective fan (see page 26). TDP-MT8 Service Guide...

[Page 88: Check The Color Wheel And Reseat The Cable](#)

The lamp and the lamp door must be in place to start the projector with the top case removed. Examine the color wheel to see if it is spinning. The color wheel is inside the circular shroud on the optical engine. TDP-MT8 Service Guide...

[Page 89](#) If the color wheel is not spinning, check and reseat the color wheel cable connection. To reseat the cable, open the ZIF connector, and pull the cable out. Re-insert the cable fully, and then close the ZIF connector. TDP-MT8 Service Guide...

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[Page 91: Check The Thermal Switch](#)

(page 86). Let the projector run until it shuts down. Measure the resistance at the switch. If the resistance is infinity (Ω), replace the safety switch assembly, which includes the thermal switch. Go to remove and replace the safety switch assembly on page 55. TDP-MT8 Service Guide...

[Page 92: Parts Lists](#)

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Case Parts Exploded View TDP-MT8 Service Guide...

[Page 94: Frus By Alphabetic Listing](#)

FRUs by alphabetic listing The following is a list of FRU parts available for the TDP-MT8 projector. Part names in parenthesis are those that appear in the online parts price list. Those names may contain unfamiliar abbreviations or acronyms. Part Name...

[Page 95](#) Part Name Part Number Notes IO Panel Label 020-1687-xx Required for new rear bezel (Label, I/O Panel, TDP-MT8) Inner Handle 505-1248-xx (S/A, Handle, Inner) IR Lens, Rear 340-0990-xx (Window, IR, Rear) IR Lens, Side 340-1015-xx Fits either left or right side of bottom...

[Page 96: Fastener Kit Contents](#)

M2x8 Torx T-10 Safety switch M4x10 Torx T-10 Conepoint Top/bottom cases M3x10 Torx T-10 Lamp connector retainer M3x8 Torx T-10, black Rear bezel M3x8 Torx T-10 Plastite Leveling foot knob M4x10 slotted black Lamp door Leveling foot shaft, M8x29 TDP-MT8 Service Guide...

[Page 97](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...