

TOSHIBA

Toshiba 60th Series Manual

Analog copiers - detachable options

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TOSHIBA THE 60

OPTIONS FOR 1550 2060 3560 AND 4560 MODELS

Following the technical review of all analog copiers from Toshiba 60 present article about the extensive list of detachable option modules. The available options are

RADF – reversing automatic document feeder (ADF – automatic document feeder); LCF –large capacity feeder; Sorters with or without stapler; ADU – automatic duplexing unit and Pedestal.

The copiers from the 60

of the users, but however nothing is perfect. So there comes the options list.

- The RADF module enables users to copy up to 50 originals at a time automatically both one and two sided.
- The LCF is a useful option for users that demand a steady continuous supply of copy paper. The module has a capacity of 1500 sheets.
- The sorter is a valuable option module for copy shops and busy offices, which operate with great number of multiple pages documents that need to be copied, sorted and stapled in up to 20 sets at a time. The sorters available are either of 10 or 20 bin types. The first is a hanging type and the second is a stand-alone type. The stand alone type demands the original stand desk of the machine to be used or the optional pedestal module, for correct alignment of the sorter with the copier.
- The ADU module is also preferable for busy offices. There is no need to explain the advantages of automatic double-sided copying.
- The pedestal is yet another option for even greater volume of copy paper supply. It consists of either 3 or 2 auxiliary paper trays with variable paper formats.

The places and external view of the described options are shown on figure 1:

10 Bin Sorter

TH

SERIES ANALOG COPIERS – DETACHABLE OVERVIEW

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series are quite capable of doing most of the daily copying needs

ADU

th

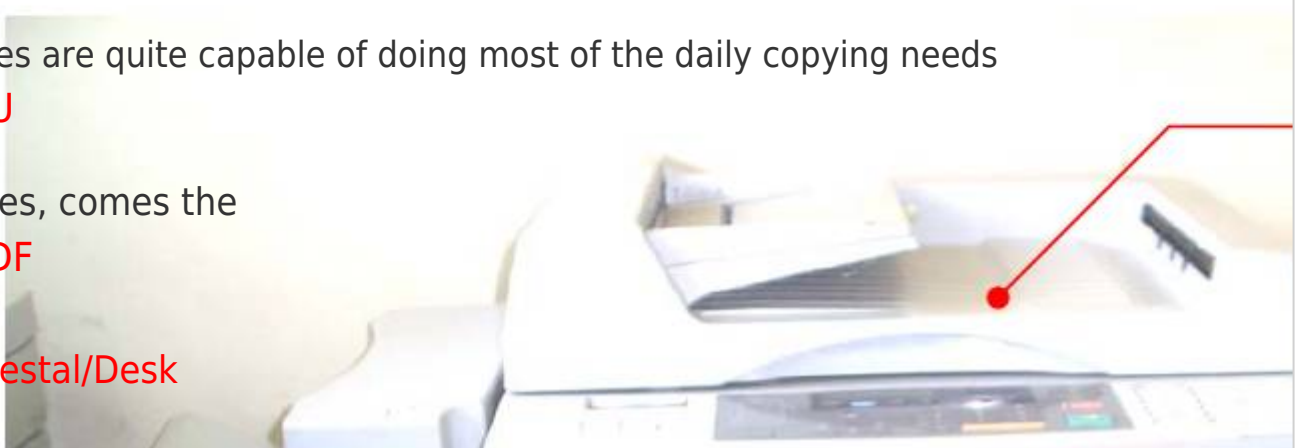
series, comes the

RADF

LCF

Pedestal/Desk

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Summary of Contents for Toshiba 60th Series

[Page 1](#) SERIES ANALOG COPIERS – DETACHABLE OPTIONS FOR 1550 2060 3560 AND 4560 MODELS OVERVIEW Following the technical review of all analog copiers from Toshiba 60 series, comes the present article about the extensive list of detachable option modules. The available options are RADF –...

[Page 2](#) PERIODICAL MAINTENANCE – USEFUL PRACTICES In general, the option modules are very reliable and rarely need special attention, apart from the regular maintenance and replacement of worn parts (mostly rubber parts). However the goal of this article is, as usual, to give you guidelines to proper maintenance. 1.

[Page 3](#) Note: K=1 000 copies; C1: Cleaning (Isopropylalcohol); C2: Cleaning (Cloth); C3: Cleaning (Cotton Swab) Figure 2 – RADF maintenance cycle and parts In order to better troubleshoot and repair malfunctions in this unit it is useful to understand how it works. The construction of the module is shown on figure 3:...

[Page 4](#) FRONT SECTION AND DRIVE SYSTEM DIAGRAMS Front section diagram MR-3006 model: Figure 3 – Construction of the module...

[Page 5: Drive System Diagram](#)

Front section diagram MR-2008 model differences: Figure 3 – Construction of the module continued DRIVE SYSTEM DIAGRAM 1. Drive motor rotates clockwise (viewed from front side) MR-3006:...

[Page 6](#) 1. Drive motor rotates clockwise (viewed from front side) MR-2008:...

[Page 7](#) 2. Drive motor rotates counterclockwise (viewed from front side) MR-3006:...

[Page 8](#) 2. Drive motor rotates counterclockwise (viewed from front side) MR-2008:...

[Page 9](#) Disassembly and adjustments: 1. Slide the originals guides towards each other. 2. Remove screws A. See figure 4: 3. Lift the RADF. Remove screws A and B. Note the relative position of the smaller hinge to screw B. This is an important reference used for correcting image skew. Unplug the module's connector to the copier (located at the back of the machine).

[Page 10](#) 4. Remove the cover A by unscrewing three screws. Remove the four plastic clips B that hold the ADF's transport belt assembly C and remove it. See figure 6:...

[Page 11](#) 5. To remove the exit/reversing assembly remove screws A. Open the cover B and remove the entire assembly. Be careful with the wire connectors. You should remove the assembly only if you plan to make repairs on it. Otherwise open the cover B and clean the three transport tires C with rubber restoring fluid.

[Page 12](#) 6. If you received a service call related with RADF/ADF original exit problems, you should remove the exit assembly. Follow the instructions in stage 5. If cleaning the exit rubber rollers doesn't solve the problem, look at the spring clutches A. They are responsible for the transport of the original in the exit direction and in the reverse direction when making double-sided copies.

[Page 13](#) 7. If your clients complain that the ADF module doesn't stand in the open position and the copies are skewed and some times the originals even don't exit, causing paper jams, you should look at the main hinge of the module. It is made of a spring and a shock absorber inside. If the module doesn't stand open it indicates the absorber is worn.

[Page 14](#) 9. Open the left ADF cover and loosen the screw A. Figure 10. 10. Remove the feed assembly. If you are not sure how to disassemble it, consult the service manual, because it has a rather complicated mechanics. See figure 11:...

[Page 15](#) Adjustments: 1. Adjustment of skew (image inclination): (1) Please confirm the installation as shown (RIGHT HINGE). Note: Install the screw on the center of scale. (2) Place the test original face up in the tray, press PRINT to make a copy. Check that the copy isn't skew.

[Page 16](#) Periodical maintenance and replaceable parts: FRONT AND REAR SECTION DIAGRAMS...

[Page 17](#) Disassembly and adjustments: If you plan only to perform a periodical maintenance of the module, you should open the LCF's door while the tray is in the upper position and clean the bottom of the module with vacuum cleaner. Then close the door and press the tray-down button. When the tray is down open the front door and clean with rubber restoring fluid the pick-up, feed and separation rollers.

[Page 18](#) 1. Press the tray-down button. Wait until the tray is in the lowest position. Lift the handle A and open the LCF. Open the front door too. Loosen screws B. Remove screws C.

Remove the upper cover. See figure 12:...

[Page 19](#) 2. Remove screws A. Remove the separation roller plate in direction B. See figure 13. 3. To remove the separation roller push the assembly tabs A. See figure 14.

[Page 20](#) 4. To remove the pick up and feed tires, remove one screw A, a plastic clip B, the bronze bushing C and the support plate D. Remove the cylindrical weight E from the pick up roller and pop out the shaft from the white lever F. You should be able now to pull out the pick up roller. Remove the white lever from the feed roller shaft.

[Page 21](#) 3. AUTOMATIC DUPLEXING UNIT – ADU This is a very useful option for operators. I've maintained such units for years without even replacing the rubber feed rollers. All they needed was a periodical cleaning with rubber restoring fluid. However there are some underwater stones with these modules. First of all sometimes operators open too rough the two metal sheet transport plates and bend them.

[Page 22](#) Structure of the ADU:...

[Page 24](#) Disassembly and adjustments: 1. Pull Out The ADU. Open the front cover of the copier and remove the two pins that hold it to the machine. Remove the cover. Remove screw A and the magnet plate with it. Lift the entire unit upwards and remove it from its rails in the copier (direction B).

[Page 25](#) 2. Carefully inspect the spring clutch A for damage. It is responsible for lifting up the plate with stacked sheets of paper as well as for the rotation of the pick up and feed rollers at the same time. Clean all rubber rollers with rubber restoring fluid. See figure 17.

[Page 26](#) 4. SORTER MG-1003 This is a 10 bin sorter without stapler, but it is also the most reliable one. Basically sorters don't need so much technical attention, during exploitation. Their mechanical parts are made tough and hardly ever break if the module is used normally. There are two defects that you may encounter servicing the sorter.

[Page 27](#) Operators sometimes push the sorter's bins too hard. This leads to breaks in the guide rollers at the back of every bin, or in the sliders in front of each bin. The broken bin stands at an angle relative to the remaining horizontal bins. When the sorter attempts to lift the bin assembly the broken one creates tension and the drive mechanism slips.

[Page 28](#) 2. Figure 20 shows the construction of the sorter viewed from the front and the rear. Apply white grease to the cam-grooved drive shafts. This is important for their fail-free operation.

[Page 29](#) 3. To get access to the delivery entrance rollers and the paper exit sensor, remove screw A and the cover underneath. Push the two clips B and pull out the cover C. You can clean the exit rollers with rubber cleaning fluid and inspect the exit sensor. See figure 21.

[Page 30](#) The procedure for removing each module is the same as for the one inside the copier. It was reviewed in the previous article about Toshiba 2060/3560 and 4560 models. However it is useful to know the layout and construction of the...

This manual is also suitable for:

1550206035604560Mr-3006Mr-2008