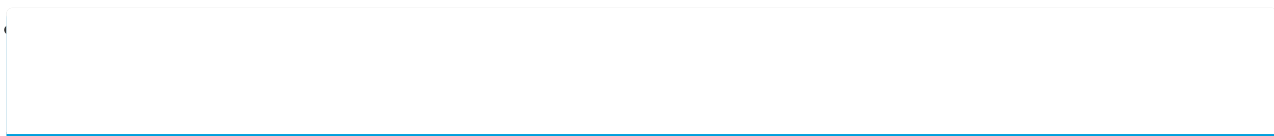


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Toshiba 42WP36P Service Manual

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SERVICE MANUAL

TOSHIBA
PLASMA COLOUR TV

42WP36P

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[Plasma TV Toshiba 42WP66R Service Manual](#)

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TABLE OF CONTENTS	SERVICE SAFETY PRECAUTIONS	3	IMPORTANT INFORMATION	5	CLEANING	6	LAYOUT OF MAJOR BOARDS	7	MECHANICAL DISASSEMBLY	8	PACKING DISASSEMBLY	14	WIRING CONNECTION DIAGRAM	15	LOCATION OF CONTROLS	19	PROGRAMMING CHANNEL MEMORY	22	TROUBLESHOOTING	
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[Page 3: Service Safety Precautions](#)

SERVICE SAFETY PRECAUTIONS • The caution items shown here describe major safety issues and should always be observed. • The meanings of the various indications are as follows. Indicates a hypothetical situation in which service personnel and nearby third parties, or even WARNING end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.

[Page 4](#) WARNING • Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc. KEEP CHILDREN AWAY • Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock. UNPULUG •...

[Page 5: Important Information](#)

IMPORTANT INFORMATION About Permanent after-image • Due to the characteristics of a plasma screen, if the same image is displayed for an extended period of time, permanent after-image (image retention) in part of the screen may result. As a result of accumulative effect, brightness deterioration results.

[Page 6: Cleaning](#)

CLEANING Remove the power plug before cleaning. Do not use solvents such as benzene or thinner to clean the TV. - These solvents may distort the cabinet or damage its finish. - If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

[Page 7: Layout Of Major Boards](#)

LAYOUT OF MAJOR BOARDS RGB PRO Board G-HYPER Module LOWB-1 Board POWER Module M2/TEXT Board LOWB-2 Board Y-SUS Board Z-SUS Board A-OUT Board KEY Board FRONT/AV Board (X Board) PC INPUT Board SIGNAL Board (Control Board) POWER SW Board BACK AV Board TIF-MA Board -...

[Page 8: Mechanical Disassembly](#)

MECHANICAL DISASSEMBLY R Removing the rear cover Note: Be sure to lay down the main body (by placing its screen downward) for disassembling. • Remove 25 screws (A). • Remove 16 screws (B). • Remove 6 screws (C). - 8 -...

[Page 9](#) R Removing the speakers Remove 4 screws. Remove 4 screws. Remove 2 screws. Remove 2 screws. Remove 4 screws. Remove 4 screws. - 9 -...

[Page 10](#) R Removing the back terminal panel • Remove 9 screws encircled in red. • Remove 4 screws enclosed in red squares. R Removing the terminal cover • Remove 3 screws. R Removing the BACK/AV board • Remove 2 screws. BACK/AV Board TIF-MA Board PC INPUT Board -...

[Page 11](#) R Removing the A-OUT board Remove 4 screws. - 11 -...

[Page 12](#) R Removing the chassis block • Remove 16 screws. Chassis Block - 12 -...

[Page 13](#) R Removing the front chassis block • Remove 4 screws. - 13 -...

[Page 14: Packing Disassembly](#)

PACKING DISASSEMBLY A710A A703 Y170 K902 Y101 Y109 Power cord A701B - 14 -...

[Page 15: Wiring Connection Diagram](#)

WIRING CONNECTION DIAGRAM * In case where it is indistinct or hard to read, please refer to the attached Circuit Diagram (A1 size). - 15 - - 16 -...

[Page 16](#) THIS PAGE IS INTENTIONALLY LEFT BLANK. - 17 - - 18 -...

[Page 17: Location Of Controls](#)

LOCATION OF CONTROLS TV front ON-timer indicator Power indicator of the (green) monitor

(red) TV front view Remote sensor Push up to let Push up to let Push up pocket panel pocket panel comes down. comes down. Power switch Left side TV control panel Right pocket panel MENU L/MONO...

[Page 18](#) TV back Wall outlet 110-240V AC 50/60Hz Power cord* * The exact power code will vary according to the country. EXT2 IN EXT1 IN (Component (Component video/ video/Composite Composite video/Audio EXT4 IN/OUT video/Audio input) (Scart 4) input) EXT3 IN EXT5 IN/OUT (S-video/V ideo/ Aerial input) (Scart 5)

[Page 19](#) : To control VCR : To control DVD When in VCR or DVD mode: When in TV (Teletext) mode: (Only for Toshiba VCR/DVD To r eveal concealed text player except some models) To hold a wanted page to P AUSE...

[Page 20: Programming Channel Memory](#)

To allocate a position for your VCR, use the Manual tuning method as described in Owner's Manual. Your Toshiba TV may be tuned manually as an alternative to Auto tuning. DO NOT PRESS ANY OTHER BUTTONS WHILST THE SET IS TUNING.

[Page 21: Programme Sorting](#)

This TV set is capable of receiving a number of different channels depending upon where you live. Programme sorting is an easy way of storing each channel on the programme position of your choice. Manual Tuning (continued) Programme Sorting D. Programme position skip selection Example: To swap channel 22 (Prog.1) for channel 32 Press the button to turn the programme...

[Page 22: Troubleshooting](#)

TROUBLESHOOTING NO SOUND (All source) Disconnection of SPK, (A-OUT) or the defect of SPK P601 #2 (Lch) or #4(Rch) OK? Change the SPK. (A-OUT) (A-OUT) Check the MUTE_AUDIO P610A #1 (Lch) or #2 (Rch) Q610 #5 (MUTE) is Low (0V)? line.

[Page 23](#) NO POWER ON Relay sounds? Check 5V-1. Check the #9 of P807 by disconnecting M807. Replace PFT-422. Check the Microcontroller, POWER_TV is HIGH Light Receiving Unit and after connecting the M807 peripherals. again? Check Q819, D819 and peripherals of LOWB2. Replace PFT-422.

[Page 24](#) No Teletext Check the RGB Check a CVBS at Processor board or pin 27 of PF01B Signal board. Check a buffer Check a CVBS at circuit. Pin121 of QF01 (QF1 5/QF16) Check the HD and VD signal Check the RGB Processor board or Check at pin 38 and 39 Signal board.

[Page 25](#) Unusual Teletext Picture Disappear a Check a YS signal teletext picture at pin 41 of PF01B Check the RGB Color Problem Processor board or Check RGB signals Signal board. Check the RGB Check a buffer At pin 23, 24 and 25 of Processor board or Check at pin105 of circuit (QF09)

[Page 26](#) OSD Problem Disappear an Check a YS signal Check pixel clock at pin 77 of QF01 Unusual color Check digital RGB outputs (QF01) Check HD and VD Check the RGB Pin 6 to 10 for B signal processor board Pin 78 to 81, 90 for R Pin 92 to 97 for G Check digital RGB Check the RGB...

[Page 27](#) G-HYPER (MVPE42) SN:23148073 SUB MICON Memory TMPA8700_J1 gm6015 TD-LVDS C'C- B^ B □ B Ò B □ TCLK+ TRANSMITTER TCLK- gm6015 12 TC+ 13 TC- 15 TB+ TB- Bport TA- 4:4:4 3DYCS μPD64031 MST9883A MST9883A TC90A92F ADC, 3YCS VCD, GR Not mount -...

[Page 28](#) - 30 -...

[Page 29](#) PDP POWER CIRCUIT LOAD SYSTEMATIC DIAGRAM From PDP POWER PDP Panel 190V, 60V, 5V ctrl From PDP POWER From PDP POWER 9.2V(SIGNAL) 9V (Q829) 5.3V (SIGNAL) 5V-2(Q835) 3.4V(G-HYPER) 3.3V(Q820) From PDP POWER 9.0V (Scaler) 9VS(Q880) 5V (M2) 3.5V (Scaler) 3.3VS-1 (Q870) 12V(BBE) From PDP POWER 26V (Sound Output)

[Page 30: Chassis And Cabinet Replacement Parts List](#)

• The part number must be used when ordering parts, in order to assist in processing, be sure

to include the Model number and Description. • The PC board assembly with mark is no longer available after the end of the production. Model : 42WP36P Capacitors CD Ceramic Disk : Plastic Film : Electrolytic Resistors

[Page 31](#) Location Location Parts No. Description Parts No. Description C672 24669229 ELECTROLYTIC, 50V 2.2UF M 3A CA08 24100104 CERAMIC CHIP, 25V F 0.1UF Z C673 24669229 ELECTROLYTIC, 50V 2.2UF M 3A CA09 24100104 CERAMIC CHIP, 25V F 0.1UF Z C674 24669479 ELECTROLYTIC, 50V 4.7UF M 3A CA10 24619100...

[Page 32](#) Location Location Parts No. Description Parts No. Description CB90 24100103 CERAMIC CHIP, 50V F 0.01UF Z CE27 24100104 CERAMIC CHIP, 25V F 0.1UF Z CC01 24109103 CERAMIC CHIP, 50V B 0.01UF K CE28 24100104 CERAMIC CHIP, 25V F 0.1UF Z CC02 24105220 CERAMIC CHIP, 50V CH 22PF J...

[Page 33](#) Location Location Parts No. Description Parts No. Description CM03 24100104 CERAMIC CHIP, 25V F 0.1UF Z CS09 24100104 CERAMIC CHIP, 25V F 0.1UF Z CM04 24100104 CERAMIC CHIP, 25V F 0.1UF Z CS10 24092538 CERAMIC CHIP, 10V F 1UF Z CM05 24100104 CERAMIC CHIP, 25V F 0.1UF Z...

[Page 34](#) Location Location Parts No. Description Parts No. Description CV35 24100104 CERAMIC CHIP, 25V F 0.1UF Z CV288 24092731 CERAMIC CHIP, 16V B 1UF K CV36 24092743 CERAMIC CHIP, 10V F 0.47UF Z CV293 24100104 CERAMIC CHIP, 25V F 0.1UF Z CV39 24794101 ELECTROLYTIC, 16V 100UF M...

[Page 35](#) Location Location Parts No. Description Parts No. Description R520 24366681 CARBON FILM, 1/6W 680 OHM J R871 24000356 METAL FILM, 1/4W 820 OHM F R523 24011103 CHIP, METAL FILM, 1/20W 10K OHM J R872 24366102 CARBON FILM, 1/6W 1K OHM J R524 24011103 CHIP, METAL FILM, 1/20W 10K OHM J...

[Page 36](#) Location Location Parts No. Description Parts No. Description RA15 24011330 CHIP, METAL FILM, 1/20W 33 OHM J RA75 24366103 CARBON FILM, 1/6W 10K OHM J RA15 24011472 CHIP, METAL FILM, 1/20W 4.7K OHM J RA76 24011333 CHIP, METAL FILM, 1/20W 33K OHM J RA16 24011101 CHIP, METAL FILM, 1/20W 100 OHM J...

[Page 37](#) Location Location Parts No. Description Parts No. Description RC13 24011681 CHIP, METAL FILM, 1/20W 680 OHM J RF15 24011392 CHIP, METAL FILM, 1/20W 3.9K OHM J RC14 24011681 CHIP, METAL FILM, 1/20W 680 OHM J RF16 24011471 CHIP, METAL FILM, 1/20W 470 OHM J RC15 24011681 CHIP, METAL FILM, 1/20W 680 OHM J...

[Page 38](#) Location Location Parts No. Description Parts No. Description RF111 24011330 CHIP, METAL FILM, 1/20W 33 OHM J RR31 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RF112 24011330 CHIP, METAL FILM, 1/20W 33 OHM J RR32 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RF113 24019398 CHIP BLOCK, 1/16W P-8 33 OHM J...

[Page 39](#) Location Location Parts No. Description Parts No. Description RR523 24011471 CHIP, METAL FILM, 1/20W 470 OHM J RS34 24011470 CHIP, METAL FILM, 1/20W 47 OHM J RR524 24011103 CHIP, METAL FILM, 1/20W 10K OHM J RS34 24011473 CHIP, METAL FILM, 1/20W 47K OHM J RR525 24011331 CHIP, METAL FILM, 1/20W 330 OHM J RS35...

[Page 40](#) Location Location Parts No. Description Parts No. Description RS103 24011103 CHIP, METAL FILM, 1/20W 10K OHM J RV46 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RS112 24011473 CHIP, METAL FILM, 1/20W 47K OHM J RV48 24011102 CHIP, METAL FILM, 1/20W 1K OHM J RS116 24011473 CHIP, METAL FILM, 1/20W 47K OHM J RV50...

[Page 41](#) Location Location Parts No. Description Parts No. Description RV214 24011152 CHIP, METAL FILM, 1/20W 1.5K OHM J RZ26 24011471 CHIP, METAL FILM, 1/20W 470 OHM J RV215 24872750 CHIP, METAL FILM, 1/16W 75 OHM J RZ28 24011151 CHIP, METAL FILM, 1/20W 150 OHM J RV216 24872151 CHIP, METAL FILM, 1/16W 150 OHM J RZ29...

[Page 42](#) Location Location Parts No. Description Parts No. Description LA17 23103272 FILTER, EMI 2012 361OHM 0.22A, LE03 23103886 INDUCTOR, CHIP BEAD 3A 60OHM TEM2034AD LF01 23103827 INDUCTOR, BEAD, TEM2120M LA19 23103272 FILTER, EMI 2012 361OHM 0.22A, LF02 23103827 INDUCTOR, BEAD, TEM2120M TEM2034AD LF03 23103887...

[Page 43](#) Location Location Parts No. Description Parts No. Description LV22 23103852 COIL, FILTER, TEM2028AH Q819 23114528 TRANSISTOR, 2SC1740S LV23 23103852 COIL, FILTER, TEM2028AH Q820 23906125 IC, PQ30RV11 LV24 23103852 COIL, FILTER, TEM2028AH Q820B 70391355 SCREW, BIND HEAD TAP-TITE B, LV25 23103852 COIL, FILTER, TEM2028AH BITTB 3X8 SZN LV26...

[Page 44](#) Location Location Parts No. Description Parts No. Description QF03 23000904 IC, REGULATOR +2.5V TO252-3, BA25BC0FP QS05 23009571 IC, C-MOS OCTAL D-TYPE F-F, QF04 23009595 IC, SDRAM PC133, IC42S16400-7TT/R TC74VCX574FT(EL) QF05 23009114 IC, BD4746G QS05 70114396 TRANSISTOR, 2SC3326B QF06 23314993 TRANSISTOR, 2SC4081 Q QS06 23009571 IC, C-MOS OCTAL D-TYPE F-F,...

[Page 45](#) Location Location Parts No. Description Parts No. Description QV254 23000360 IC, MM1519XQ DB02 23358563 DIODE, LED, SLR-56MC3FPQR QZ01 23009303 IC, CMOS MULTI COMB SOP16, DM11 23357220 DIODE, RB521S-30 TDA9181T/N1,118 DM12 23357220 DIODE, RB521S-30 QZ02 23009527 IC, LVDS 24BIT, THC63LVDM83R DMY01 24000445 CHIP JUMPER, 1608TYPE QZ02 23314994...

[Page 46](#) Location Location Parts No. Description Parts No. Description GC05 24000445 CHIP JUMPER, 1608TYPE H002 23148733 MODULE, NICAM/IGR A-PRO, MPSN11B GC20 24000445 CHIP JUMPER, 1608TYPE KB01 23000852 IC, REMOTE PHOTO RECEIVER, GJ603 24000445 CHIP JUMPER, 1608TYPE PIC-37043TE2 GJ604 24000445 CHIP JUMPER, 1608TYPE MZ01 23368845 CABLE, LVDS 31P 360MM 23368845...

[Page 47](#) REMOCON HAND UNIT IR, PDPPAL, S801 23344483 SWITCH, ESB92S NAE, ESB92S21B CT-90126 SA01 23145430 SWITCH, PUSH, SKHHLMA010 Y101 23566021 OWNER'S MANUAL, E/F/G/I/S/D/P, 42WP36P SA02 23145430 SWITCH, PUSH, SKHHLMA010 Y109 23945015 BAG, POLYETHYLENE COVER 250x400 SA03 23145430 SWITCH, PUSH, SKHHLMA010 Y170 23845800 WIRE HOLDER, NYLON66 D6.8...

[Page 48](#) A541 23712306 SCREW, PP3X.5X6SZN A701A 23067364 CARTON, TOP CASE 42WP36P, 42WP36P:S1303D073 A701B 23067365 CARTON, BOTTOM CASE 42WP36P, 42WP36P:S1303D074 A702 23946565 PACKING, PACKING 1 SHI 42WP36P, 42WP36P:S1303D075 A703 23945174 BAG, HOGOBUKURO 42WP36P, 42WP36P:S1303D076 A705 23518043 PACKING, JOINT, 3Z25P - 50 -...

[Page 49](#) SIGNAL BOARD PD1337-1 BOTTOM (FOIL) SIDE 23547387 R-1786 10 9 8 7 6 5 PX01A 4 3 2 QB83 RB81 PB11A RR84 QR52 PB14 LZ01 GRZ01 LR50 LZ04 RR86 GRR40 GRR35 GR289 PK16 TP05 GRR38 CR52 CR50 L280 12 11 10 9 8 7 6 5 4 3 2 QB82 RR87...

[Page 50](#) MA BOARD PD1337-2 BOTTOM (FOIL) SIDE P611B L_VARI P110B CS508 CS507 R_VARI 6 5 4 W_OUT P111B PK04 H002 L_AMP-IN TP-12 P102B P101B R_AMP-IN G696 G697 W_AMP-IN P610B 23547387 R-1786 LOWB1 BOARD PD1339 BOTTOM (FOIL) SIDE QE21A P810B QE21 RE21 Q829A Q829 23547389...

[Page 51](#) LOWB2 BOARD PD1340 BOTTOM (FOIL) SIDE PROTECT GND(12V) GND(12V) C891 C890 GND(12V) Q870A Q860A Q890 Q870 Q860 C871 C861 Q890A 9V_FAN G872 G862 R891 POW_FAN STOP_FAN STOP_FAN D891 D860 C874 C864 P819 D870 9V_FAN R893 D892 L861 R860 D870A D860A R892 STOP_FAN R870...

[Page 52](#) BACK/AV BOARD PD1338 BOTTOM (FOIL) SIDE - 56 -...

[Page 53](#) A-OUT BOARD PD1341 BOTTOM (FOIL) SIDE CCP-6400 23547391 C680 C682 D675 C601 C685 R685 P601 C681 C684 L_AUDIO C675 C676 P809A R_AUDIO 26V(AUDIO) C688 R681 R675 2 26V(AUDIO) 26V(AUDIO) C674 26V(AUDIO) R673 5 GND(AUDIO) R683 Q610 C671 GND(AUDIO) C678 GND(AUDIO) GND(AUDIO) Q672 R677...

[Page 54](#) FRONT/AV BOARD PD1344-1 BOTTOM (FOIL) SIDE PV60 P661 PY630 GR605 GRV12 CC11 CC12 GR195 R688 D650 D651 C605 L601 C650 CC45 CY651 P613B TZ-1 CY650 23547394 9 8 7 6 5 4 3 2 1 PV25B KEY BOARD PD1344-2 BOTTOM (FOIL) SIDE MENU VOL DN VOL UP...

[Page 55](#) POW SW BOARD PD1344-5 BOTTOM (FOIL) SIDE P802A S801 3D YCS BOARD PD1344-6 BOTTOM (FOIL) SIDE ZY02 CZ01 CZ02 11 10 9 8 7 6 5 4 3 2 1 23547394 PZ04B TZ-1

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[Page 57: Schematic Diagram](#)

SCHEMATIC DIAGRAM MODEL : 42WP36P WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL. CAUTION: The international hazard symbols "*" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

[Page 58](#) SCHEMATIC DIAGRAM STRUCTURE: SIGNAL (1/11) [SHEET - 1/11]1/39 [SHEET - 2/11]2/39 YPBPRSW [SHEET - 3/11]3/39 MICON / TEXT [SHEET - 4/11]4/39 V / C [SHEET - 5/11]

[Page 59: Specifications](#)

SPECIFICATIONS Plasma Colour TV Model 42WP36P Powersource 110 - 240V AC, 50/60Hz Three-wire grounding-type socket Power consumption 365 W 0.75W (standby) Dimensions 1318 mm (W) 698 mm (H) 124 mm (D) Mass (Weight) 44.5 kg Stereo Nicam/MPX Speakers Main 70 x 130 mm 4 pcs.

[Page 60](#) TOSHIBA CORPORATION...