



Sanyo NV-E7000 Service Manual

Portable dvd navigation system

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SERVICE MANUAL

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Portable DVD Navigation System

FILE NO.

NV-E7000

(U.S.A.)

PRODUCT CODE No.

949 005 03

REFERENCE No. SM590496

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Portable dvd navigation system (110 pages)

[Car Navigation system Sanyo NV-E7000 Service Manual](#)

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Summary of Contents for Sanyo NV-E7000

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REFERENCE No. SM590496...

[Page 2: Specifications](#)

SPECIFICATIONS MONITOR Type Liquid crystal color monitor Drive system TFT active matrix system Screen size 7V type Light source Cold cathode tube NAVIGATION GPS antenna Micro-strip flat antenna Reception frequency 1575.42MHz (C/A cord) Reception system 18 channels parallel Reception sensitivity -130dBm Updating Interval About 1 second...

[Page 3: Accessories](#)

ACCESSORIES 12V cigarette lighter connector cable 1 cable Remote control and holder Each 1 Map DVD-ROM 1 disc Core (Small) 1 core Parking brake AC/DC adapter connector cable 1 cable

2 cables Velcro tape Tapping screw (M3x8) 1 pair 2 screws RCA cord (when in VIDEO mode) (when in AUDIO mode)

[Page 4: Component Names And Functions](#)

COMPONENT NAMES AND FUNCTIONS DVD VIDEO/CD OPERATION MAIN UNIT...

[Page 5](#) COMPONENT NAMES AND FUNCTIONS Brightness sensor Speaker Video I/O terminal Used when connecting to a TV image input terminal using the included RCA cord (when in VIDEO mode). Audio I/O and optical digital audio output terminal Used when connecting the sound input terminal of a TV or amp using the included RCA cord (when in AUDIO mode).

[Page 6](#) COMPONENT NAMES AND FUNCTIONS DVD VIDEO/CD OPERATION REMOTE CONTROL...

[Page 7](#) COMPONENT NAMES AND FUNCTIONS † button This button displays the playback time on the top left corner of the screen. β button (only when playing back DVD video discs) Every time this button is pressed, the subtitle language item is switched from the list of languages recorded in the disc.

[Page 8](#) COMPONENT NAMES AND FUNCTIONS OPERATING THE NAVIGATION UNIT MAIN UNIT...

[Page 9](#) COMPONENT NAMES AND FUNCTIONS Brightness sensor S-video output terminal Video I/O terminal Used when connecting to a TV image input terminal using the included RCA cord (when in VIDEO mode). Audio I/O and optical digital audio output terminal Used when connecting the sound input terminal of a TV or amp using the included RCA cord (when in AUDIO mode).

[Page 10](#) COMPONENT NAMES AND FUNCTIONS OPERATING THE NAVIGATION UNIT REMOTE CONTROL...

[Page 11: Disassembly](#)

DISASSEMBLY How to remove the PCB - ML,MAIN, DVD MECHANISM,MDVC07 and PCB - ML,DVD. [Refer to figures 1,2,3] 1.Remove 4 screws A which fasten the REAR CABINET ASSY, and the Hook. Remove FFC,28P which is connected to the PCB - ML,MAIN and PCB - W,LCD. 2.Remove 6 screws B which fasten the PCB - ML,MAIN.

[Page 12](#) DISASSEMBLY LEAD WIRE LEAD WIRES PLACED ON SPEAKER SIDE BRACKET, PCB-W,LCD BRACKET, PCB-ML,MAIN CS051 Figure2 LEAD WIRE CS982 LEAD WIRE FFC,28P PCB-W,KEY BRACKET, BRACKET, FFC,6P...

[Page 13](#) DISASSEMBLY LEAD WIRES PLACED ON FAN,MOTOR,DC SIDE DVD MECHANISM, MDVC07 FFC,50P PCB-ML,DVD Figure3 PCB-W,KEY LEAD WIRE Figure4 CS601 C796 PCB-W, SENSOR LEAD WIRE...

[Page 14: Adjustment Procedures](#)

ADJUSTMENT PROCEDURES 1.Adjustment Conditions Power supply voltage DC 9.0 V. Input the suitable signal for each adjustment. It shifts to TEST MODE by pressing in order of [OUT] [OUT][IN] [IN] [VOLUME-] [VOLUME] When in TEST MODE, the items can be changed by pressing of joystick, and the values can be changed by pressing [VOLUME] or [VOLUME-] 2.LCD Adjustment...

[Page 15](#) ADJUSTMENT PROCEDURES SIGNAL 3. FLICKER Adjustment < Adjustment conditions > Adjustment shall be done with the combination of a paired LCD module. Adjustment in TEST MODE. Display map in NAVI MODE. Adjust each video signal value by default value. (BLACK : CENTER. DIMMER : MAX .) 1) FLICKER adjustment Give a shock to the set, and adjust the [FLICKER] to make the FLICKER visually optimal.

[Page 16: Explanation Of Microcomputer](#)

EXPLANATION OF MICROCOMPUTER IC501 (M30802)1/2 Signal SDA_D DVD_INT DVD_RST VOL_O DARC_DO DARC_DI DARC_CLK DRAC_CE DRAC_RST TV_CLK TV_DATA TV_LÉ TV_LOCK TV_SD BYTE CNVSS AU_SW1 AU_SW2 XOUT VSYNC DARC_INT VD_IN DOOR KEY_TX BAT_O PARK_O

PARK_I CDCHK VICSTX VICSRX FM_SD FM_CE FM_DO FM_DI FM_CLK VIDEO NAVI...

[Page 17](#) EXPLANATION OF MICROCOMPUTER IC501 (M30802)2/2 Signal LMUTE VOL_CLK VOL_DATA DA10R NV_BEEP1 NV_BEEP2 BEEP SMUTE DMUTE PARK_SW DISVICs TEST_LCD_CLK LCD_DATA LCD_CS OSD_SW DIMOUT MODEL_SW TEMP BAT_I DIMIN FM_SM AVSS VREF AVCC SCL_D DRAM LINE OUT Mute Electronic Volume Electronic Volume DRAM address Power supply 4.2V 5.5V...

[Page 18](#) EXPLANATION OF MICROCOMPUTER IC861 (LC24072B)1/2 Signal LVcc HD10 HD11 HD12 HD13 HD14 HD15 LVcc HDREQ /HRD /HWR /HIORDY /HDACK /HCS1 /HCS3 LVcc FM-ASIC ASIC-FM BEACON-ASIC ASIC-BEACON GYRO-ASIC ASIC-GYRO IRQ_FM IRQ_BEACON IRQ_GYRO PLLCK /CS_CARD /LOAD LRCK /WAIT_Q2 /CS_Q2UGM +3.3V ATAPI data bus ATAPI data bus +3.3V ATAPI DMA transmit request...

[Page 19](#) EXPLANATION OF MICROCOMPUTER IC861 (LC24072B)2/2 Signal /CS_Q2REG ADPCM_SW /RST_3 CKIO LVcc /FCS /FWE /DREQ1 /DREQ0 /DACK1 /DACK0 /WAIT /CS6 /CS5 /CS4 /CS0 /WE1 /WE0 SA22 LVcc SD13 SD14 SD22 SD23 SD31 Q2i inside register chip select ADPCM switch Power on reset System clock input(39.3216MHz) +3.3V Flash memory chip select...

[Page 20](#) EXPLANATION OF MICROCOMPUTER IC801 (HD6417706)1/3 Signal LLVcc XTAL2 EXTAL2 SD31 SD26 SD25 LVcc SD24 SD20 SD19 LLVcc SD18 SD16 SD15 LVcc SD14 LVcc LVcc SA13 SA14 LVcc SA15 SA21 SA22 LVcc SA23 SA25 +1.9V Pull-up Data bus Data bus +3.3V Data bus Data bus +1.9V...

[Page 21](#) EXPLANATION OF MICROCOMPUTER IC801 (HD6417706)2/3 Signal /WE0 /WE1 /WE2 /WE3 RD /WR /CS0 LVcc /CS2 /CS3 /CS4 /CS5 /CS6 /CE2A PTD[7] LVcc /RAS PTD[1] /CAS PTD[3] PTD[4] /IOIS16 /BACK /BREQ /WAIT /DACK0 /DACK1 PTE[2] PTE[3] PTF[0] PTF[1] PTF[2] PTF[3] PTF[4] PTG[0] PTG[1] LLVcc PTG[2]...

[Page 22](#) EXPLANATION OF MICROCOMPUTER IC801 (HD6417706)3/3 Signal XTAL EXTAL STATUS0 STATUS1 PTE[6] PTE[7] CKIO LVcc TxD0 SCK0 TxD2 SCPT[3] SCPT[4] RxD0 RxD2 IRQ5 /RESETM LLVcc IRQ0 IRQ1 IRQ2 IRQ3 IRQ4 LVcc PTG[4] /DREQ0 /DREQ1 PTG[5] /RESETP PTJ[0] PTJ[1] PTJ[2] PTJ[3] LVcc Clock oscillator pin External Clock/crystal oscillator pin Processor status...

[Page 23](#) EXPLANATION OF MICROCOMPUTER IC1151 (HD64F3039TEBL18)1/3 Signal /RST0 /RST1 SPDRVPS MUTEL MUTER LSPEED FLCNT AUDIO LOEJKEY Function ATAPI controller/decoder reset Servo/data processor reset Spindle motor driver power save H : Operation mode, L : Standby H : MUTE ON / L : MUTE OFF LcH H : MUTE ON / L : MUTE OFF Rch Normally 5V,boot flash writing 0V PLL output...

[Page 24](#) EXPLANATION OF MICROCOMPUTER IC1151 (HD64F3039TEB L18)2/3 Signal INSIDE CLOSESW CSEL NAVI SRVDPCS ATACS STBY EXTAL XTAL /FEW AVSS TEST0 TEST1 TEST2 TEST3 TEST CNT Function Inside switch input Cover OPEN / CLOSE SW input IDE cable select input NAVI,DVD change terminal(Low at NAVI) Chip select output Chip select output RF AMP prescaler...

[Page 25](#) EXPLANATION OF MICROCOMPUTER IC1151 (HD64F3039TEBL18)3/3 Signal AVCC /ATAINT /SDINT ENCODER /PWR DWN1 /PWR DWN2 STBY DVDR RFMVON Function ATAPIcontroller/decoder interrupt input Servo/decoder processor interrupt input Serial data trans terminal for debug Serial data receive terminal for debug ENCODER pulse input Analog+5V power down control output Digital+5V power down control output PWMdriver MUTEoutput STBY : L...

[Page 26: Trouble Shooting](#)

TROUBLE SHOOTING NO POWER Is the DC 9.0V connected to the Power supply socket(JK110)? Is the Power supply switch(SW110)turned ON? Confirm 5V at Q572 emitter voltage. Confirm 5V at pin 1 of IC570. Confirm 14V at D140 cathode side. Confirm 5.3V at DZ111 cathode side. Confirm 3.6V at DZ110 cathode side.

[Page 27](#) TROUBLE SHOOTING VIDEO Confirm the signal at pin 3 of IC053. Then check around JK310. NAVI Confirm the signal at pin 1,9,14 of IC051 and pin 5 of IC054. NAVI BLOCK Confirm the signal at pin 8,11,16 of IC051 and pin 3 of IC054. DVD BLOCK Then check around IC751, IC701,Q754,Q755 and Q756.

[Page 28](#) TROUBLE SHOOTING VIDEO Confirm the signal at pin 2,15 of IC250. Confirm the signal at pin 2 ,6 of IC220. Then check around IC260 and JK301. NAVI Confirm the signal at pin 5,14 of IC250. Then check NAVI BLOCK (around IC881 and IC882). Confirm the signal at pin 4,11 of IC250.

[Page 29](#) TROUBLE SHOOTING (DVD - ROM MECHANISM) Does disc rotate? Is laser luminescence performed? Check RF AMP IC(IC1101) Check DSP IC(IC1201) Check SPINDLE MOTOR Is a map displayed? Good product Check the socket between PCB and MECHANISM (CS1101 ,CS1301, CS1302 and CS1303) Check laser drive circuit (Q1102 and Q1103) Check inside SW for PICK UP...

[Page 30: Explanation Of Operation\(Dvd-Rom Mechanism\)](#)

EXPLANATION OF OPERATION(DVD-ROM MECHANISM) (NAVI MODE) [Operation flow from inserting a disc to map display] 1. Turn the power supply ON after inserting a disc 2. Check inside switch of PICK UP 3. Movement of PICK UP (inside switch ON 4.

[Page 31: Explanation Of Circuit](#)

EXPLANATION OF CIRCUIT 1.NAVI BLOCK In NAVI MODE, the power supply is supplied to NAVI BLOCK and SERVO PCB. The NAVI signal from the microcomputer is Hi, and NAVI BLOCK from Q168 and 108. a. CPU(IC801) IC801 controls ASIC, MEMORY, and GRAPHIC CONTROLER etc. in MAIN CPU. Taking in the key signal from GPS data and microcomputer are also performed by CPU.

[Page 32](#) EXPLANATION OF CIRCUIT 2.VIDEO BLOCK a. Microcomputer part Microcomputer manages the whole set, such as power supply management, change mode, change image/audio , sensor input processing of remote control or dimmer. Communication with parking brake input and NAVI BLOCK are also performed. b.

[Page 33](#) EXPLANATION OF CIRCUIT 5. KEY PCB KEY PCB has various keys and remote control dimmer sensor port. 3V is supplied to IC503 by IC540, key SW is taken in, and assignment of remote control and the data of main part key are performed. 6.

[Page 34: Exploded View\(Dvd-Rom Mechanism\)](#)

EXPLODED VIEW(DVD-ROM MECHANISM) 1RA4U20A36300 MDVC07...

[Page 35: Parts List\(Dvd-Rom Mechanism\)](#)

PARTS LIST(DVD-ROM MECHANISM) Ref. No. PART No. DVD-ROM MECHANISM 661 035 1884 ASSY,CHASSIS,DVD, NO SERVICE PART 661 030 2503 BASE 632 889 9166 PLATE,BOTTOM 412 056 0208 SPECIAL SCREW,MECHANISM 411 166 2607 SCR S-TPG PAN PCS 2X3 SERVO PCB 661 025 2419 FFC,45P 30MM MECHA-SERVO PCB 632 864 9211...

[Page 36: Exploded View](#)

EXPLODED VIEW...

[Page 37: Parts List](#)

PARTS LIST Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol diagram designate components in which safety can be of special significance. When replacing a component identified with parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

[Page 38](#) PARTS LIST(CONTINUED) Ref. No. PART No. 661 046 0166 WIRE,28P-92MM 661 015 0333 WIRE,24P-82MM,LCD PCB-LC 661 059 7701 WIRE HANESS,9P-60MM 661 035 1372 CORE,MAIN PCB-DVD PCB 661 046 6847 CORE,FERRITE MAIN PCB-LCD PCB 661 025 9586 CORE,FERRITE DVD PCB-MECHANISM MAIN & GPS P.C.B. ASSEMBLY PCB1 661 059 4953 PCB-ML ASSY,MAIN &...

[Page 39](#) PARTS LIST(CONTINUED) Ref. No. PART No. SW110 632 815 1585 SWITCH,SLIDE,POWER CS051 632 889 2068 SOCKET,28P X051 632 659 7989 RESONATOR,XTAL3.579545MHZ X501 661 015 6786 OSC,XTAL,12.000MHZ IC051 409 494 4905

IC MM1234XFBE IC052 409 494 4905 IC MM1234XFBE IC053 409 476 7009 IC BA7652AF IC054 409 476 7009...

[Page 40](#) PARTS LIST(CONTINUED) Ref. No. PART No. S540 632 868 0221 SWITCH,TACT S511 632 668 1442 SWITCH,TACT S512 632 668 1442 SWITCH,TACT S513 632 668 1442 SWITCH,TACT S515 632 668 1442 SWITCH,TACT S516 632 668 1442 SWITCH,TACT S517 632 668 1442 SWITCH,TACT S519 632 668 1442...

[Page 41: About Upgrades](#)

ABOUT UPGRADES...

[Page 42: Connecting A Video Deck/Video Camera](#)

CONNECTING A VIDEO DECK/VIDEO CAMERA Use the AUDIO and VIDEO RCA cords included with this unit to enable the playback of images from your video deck or video camera. Connect your video deck/video camera to the unit. * Prior to connecting, cut off the power supply to the video deck/video camera. Turn the power supply ON for the video deck/video camera "VIDEO"...

[Page 43: Block Diagram](#)

BLOCK DIAGRAM VIDEO BLOCK DVD BLOCK DRAM NAVI BLOCK (IC530) TV MICOM (IC501) SELECT SW IC541 REM501 VIDEO IN IC503 (AUDIO) KEY SW NAVI IMAGE SIGNAL GUIDE AUDIO SIGNAL AUDIO NAVI BLOCK CARD I/F GPS TUNER (CS991) (IC801) GRAPHIC DRAM CONTROLLER (IC931) (IC901)

[Page 44](#) BLOCK DIAGRAM LCD PCB BLOCK HSYNC/VSYNC DIM IN REM IN POWER SUPPLY BLOCK REG. (+5V) (Q572) DC-DC DC IN (JK110) (IC110) DC-DC (+14V) (IC140) R/G/B DC-DC +5.3V (+16V,-16V) (IC441) +14V BACKLIGHT DIM OUT INVERTER DIMMER SENSOR REMCON SENSOR +5.3V +3.6V REG.

[Page 45: Schematic Diagram](#)

BLOCK DIAGRAM DVD BLOCK /DVD_RST DVD_R,DVD_G IC751 SCL,SDA DVD_B,DVD_CV VIDEO ENCODER IC701 DACL,DACR,SGND,P_MUTE IC781 IC731 DVD DECODER DVD DAC EEPROM Control Address DVD_INT Data IC741,742 SDRAM IC733 FLASH BUS SW EXTENSION TERMINAL AUDIO BUFFER (AUDIO SW OUTPUT) (Q204) GYRO (NAVI ASIC) BEACON...

[Page 46: Wiring Diagram](#)

WIRING DIAGRAM MAIN P.C.B. DVD P.C.B. 2 LCD P.C.B. CS402 DVD P.C.B. CS601 DVD P.C.B. 1...

[Page 47](#) WIRING DIAGRAM MAIN P.C.B. BRAKE TERMINAL DC INPUT 9V TERMINAL VIDEO,I/O TERMINAL AUDIO I/O AND OPTICAL DIGITAL AND IO OUTPUT TERMINAL HEADPHONE TERMINAL SW110 POWER SUPPLY SWITCH GPS P.C.B. CN999...

[Page 48](#) SCHEMATIC DIAGRAM MAIN 1/7 5V SW MC2848 RT1N144M 3.3V SW 1.9V REG RT1N144M MC2848 LINE OUT MUTE MC2848 MUTE DRIVER DRIVER POWER SW XC9101D09AK GND ISOLATOR BA3121F CD4052BC LINE IN LINE IN/OUT SW LINE IN LINE OUT CD4052BC LINE OUT LINE OUT MUTE FY5ACJ-03F...

[Page 49](#) SCHEMATIC DIAGRAM MAIN 2/7 INVERTER SN74AHC2G14HDC RESET BUFFER NC7ST08P5 RT1N141M SN74AHC1G08HDCK-R AND BUFFER BUFFER SN74AHC1G08HDCK HD6417706F133 NAVI MICRO COMPUTER BUFFER SN74AHC1G00HDCKR RT1N141M RT1N141M RT1N141M RT1N441M RT1N141M RT1N141M NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2.

[Page 50](#) SCHEMATIC DIAGRAM MAIN 3/7 □□□□ uPD6379ALGR AUDIO GAID DAC L.P.F. L.P.F. LC24072B-WC8-E ASIC INVERTER INVERTER TC7WU04FU TC7WU04FU...

[Page 51](#) SCHEMATIC DIAGRAM MAIN 4/7 NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2. CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3. MODIFICATION MAY BE DONE WITHOUT ANY NOTICE. 4. THE MENTIONED FIGURE OF UNIT ON THE IC ARE VOLTS. REG.

[Page 52](#) SCHEMATIC DIAGRAM MAIN 5/7 SD-RAM SD-RAM NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2.

CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3. MODIFICATION MAY BE DONE WITHOUT ANY NOTICE. 4. THE MENTIONED FIGURE OF UNIT ON THE IC ARE VOLTS. FLASHMEMORY...

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[Page 54](#) SCHEMATIC DIAGRAM MAIN 7/7 NAVI IMAGE IC XC2151A510M CLOCK GENERATOR IMAGE SIGNAL NC7S04P5 IMAGE DAC REG. VIDEO BUFFER CD74HC4046AM-96 MSM5118165F-60TS-K D-RAM NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2. CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3.

[Page 55](#) SCHEMATIC DIAGRAM DC-DC CONVERTER DRIVER 2SC4132 INVERTER DRIVER INVERTER DRIVER 2SC4132 CS501 DIMMER DRIVER RT1N144C DIMMER DRIVER NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2. CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3. MODIFICATION MAY BE DONE WITHOUT ANY NOTICE. 4.

[Page 56](#) WIRING DIAGRAM LCD P.C.B. LCD P.C.B. SENSOR P.C.B. KEY P.C.B. KEY P.C.B. BROWN BLACK BLACK BROWN SENSOR P.C.B. VOL. JOYSTICK VIEW ENTER REMCOM...

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[Page 59](#) SCHEMATIC DIAGRAM DVD 2/2 RESET BUFFER SN74AHC1G08HDCK DVD DAC MODE CONTROL OPEN FILTER OPEN NC7S04P5 CLOCK OPEN INVERTER TC7WU04FU IMAGE SIGNAL AUDIO SIGNAL DVD FLASH W29C040T-90 OPEN DVD DECODER DVD SDRAM DVD SDRAM RT1N144M INVERTER S-24C02BFJ DVD EEPROM VIDEO ENCODER BUFFER 2SA1586 BUFFER...

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[Page 61](#) WIRING DIAGRAM DVD P.C.B.

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[Page 63](#) WIRING DIAGRAM SERVO P.C.B.

[Page 64](#) SCHEMATIC DIAGRAM SERVO 1/3 HD64F3039TEBL18 POWER NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2. CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3. MODIFICATION MAY BE DONE WITHOUT ANY NOTICE. 4. THE MENTIONED FIGURE OF UNIT ON THE IC ARE VOLTS.

[Page 65](#) SCHEMATIC DIAGRAM SERVO 2/3 NOTES 1. RESISTOR VALUES IN OHMS.(k=1000) RESISTOR ARE 1/6W,1/8W,1/10W&1/16W 5% UNLESS MARKED OTHERWISE. 2. CAPACITOR VALUES IN MICRO FARADS. (p=uuF) 3. MODIFICATION MAY BE DONE WITHOUT ANY NOTICE. 4. THE MENTIONED FIGURE OF UNIT ON THE IC ARE VOLTS.

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[Page 67](#) SCHEMATIC DIAGRAM SPINDLE MOTOR...

[Page 68: Regarding Cleaning The Pickup](#)

REGARDING CLEANING THE PICKUP For CANADA only Sanyo Canada Inc. 1-300 Applewood Cres. Concord, Ont. L4K 5C7 Nov./'03/45 Printed in Japan. For U.S.A. only For parts or service contact Sanyo Fisher Service Company 21605 Plummer Street Chatsworth, CA 91311...