



Sanyo P19647-02 Manual

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46

• PAGE

1

OF 46 GO

•

[Table of Contents](#)

-

Troubleshooting

•

Bookmarks

[Download this manual](#)

Quick Links



Notice

CORRECTION

SERVICE FLASH

Please add this notice to the Service Manual listed below.

COLOR TELEVISION

:

Category

DP19647

Model:

U.S.A. / CANADA

Destination: _____

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual. If the Service Manual Chassis No. does not match the unit's, additional Service Literature is required. This chassis is similar to Chassis No. P19647-00, however, all

Service Information is given in this Notice for Chassis No. P19647-02 used in Model DP19647.

Servicing should be performed by only trained and qualified service personnel.

Contents

Safety Instructions	2
Service Adjustments	3 - 4
Power Failure Circuit	5
Mechanical Disassemblies	6 - 9
Chassis Electrical Parts List	10 - 24
Cabinet Parts List	25
Component and Test Point	
Locations	26 - 27
Block Diagrams	28 - 35
Troubleshooting Flow Charts	36 - 38
Control Port Functions	39 - 40
Schematic Notes	41
Pin Layouts	42
PC Board Connections and Locations	43
Capacitor and Resistor Codes	44
Schematic Diagrams	45 - 46



DP19647, N4TG, PRODUCT CODE 113005804

PRODUCTION CHANGE

ADD INFORMATION

SM780139-02

REF. No.

FILE NO.

REVISION 2

September / 9 / 2007

Date:

Effective from : Chassis No.

Specifications

- Power Rating 120VAC
- Antenna Input Impedance 75Ω
- Receiving Channel 2 - 13 (VHF),
- Remote Ready 32 Key Remote Control
- Sound Output 2.0 W/CH
- Intermediate Frequency
- Picture IF Carrier 45.75MHz
- Sound IF Carrier 41.25MHz
- Color Sub Carrier 42.17MHz
- LCD M190A1-L02
- Cabinet Dimensions
- Width 480mm
- Height 383mm
- Depth including base 184mm

REFERENCE No.

P19647-02

50W (Avg), 10A (Max)

UHF/VHF/CATV

14 - 69 (UHF)

01, 14-94, 95-125 (CATV)

1 - 135 (Digital)

SM

cturing Corporation 2007

[Next Page](#)

1
2
3
4
5

Related Manuals for Sanyo P19647-02

[TV Sanyo DP15647 Service Manual](#)

Remote control color television (46 pages)

[HDTV Sanyo DP19647 Owner's Manual](#)

Sanyo owner's manual television dp19647 (46 pages)

[LCD TV Sanyo DP15647 Owner's Manual](#)

Hdtv lcd tv (2 pages)

[TV Sanyo 21VF1K Instruction Manual](#)

Sanyo colour television instruction manual (20 pages)

[TV Sanyo PDP-42XR9DA Service Manual](#)

Pdp (43 pages)

[TV Sanyo AVM-2550S Training Manual](#)

(75 pages)

[TV Sanyo P46841-03 Service Manual](#)

Remote control digital color televisio (48 pages)

[TV Sanyo PDP-42XS1 Operating Manual](#)

Pdp tv (38 pages)

[TV Sanyo PDP-42XR8DA Instruction Manual](#)

Pdp tv (38 pages)

[TV Sanyo PDP-42XR8DA Service Manual](#)

Pdp tv (41 pages)

[TV Sanyo DP42142 Service Manual](#)

Remote control digital (52 pages)

[TV Sanyo PDP-50XR7 Service Manual](#)

(39 pages)

[TV Sanyo FVM4612 Service Manual](#)

(37 pages)

[TV Sanyo DP50749-02 Service Manual](#)

(10 pages)

[TV Sanyo LCD-32XR11F Instruction Manual](#)

Lcd tv (40 pages)

[TV Sanyo DS20424 Service Manual](#)

Remote control color television (26 pages)

Summary of Contents for Sanyo P19647-02

[Page 1: Table Of Contents](#)

Manual. If the Service Manual Chassis No. does not match the unit's, additional Service Literature is required. This chassis is similar to Chassis No. P19647-00, however, all Service Information is given in this Notice for Chassis No. P19647-02 used in Model DP19647.

[Page 2: Safety Instructions](#)

SAFETY INSTRUCTIONS SAFETY PRECAUTIONS PRODUCT SAFETY NOTICE WARNING: The chassis of this receiver has a floating ground with the hen replacing components in a receiver, always keep in mind potential of one half the AC line voltage in respect to earth ground. the necessary

product safety precautions.

[Page 3: Service Adjustments](#)

SERVICE ADJUSTMENTS GENERAL This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the ser- Volume - Enter Service Menu vice adjustments. ON-SCREEN SERVICE MENU SYSTEM 1. Enter the Service Menu: •...

[Page 4](#) ON-SCREEN SERVICE MENU Table 1. ON-SCREEN SERVICE MENU When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments. Title Initial Data Note Volume setup inspection Option 1 Data Option 2 Data 1R00...

[Page 5: Power Failure Circuit](#)

POWER FAILURE CIRCUIT Check the following if the unit is turned off by the power This unit is equipped with a Power Failure Detector function failure detector. included in the CPU which checks for an abnormal condi- tion in the chassis power supplies, including the power 1.

[Page 6: Mechanical Disassemblies](#)

MECHANICAL DISASSEMBLY CAUTION: This LCD TV uses several different kinds of screws. Using the correct screw is neces- sary to prevent damage. Lead wires must be redressed to their previous locations after servicing. STAND REMOVAL Note: Position TV face down on a padded or cush- ioned surface to protect the screen and finish.

[Page 7](#) ELECTROSTATICALLY SENSATIVE DEVICES Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature. POWER BOARD REMOVAL Remove 2 screws to take off the power unit. Power Unit MAIN BOARD REMOVAL Remove 4 screws to take off the main board.

[Page 8](#) MECHANICAL DISASSEMBLY (CONT.) MOUNTING BRACKET AND SPEAKER REMOVAL Remove 11 screws to take off the mouniting bracket and the left and right speakers. Mounting Bracket SPEAKER REMOVAL Lift both speakers from cabinet. — 8 —...

[Page 9](#) LCD PANEL REMOVAL Lift panel from cabinet. LCD Panel CONTROL BOARD REMOVAL Remove 2 screws to take off the control board with the button assembly parts. Control Board — 9 —...

[Page 10: Chassis Electrical Parts List](#)

CHASSIS ELECTRICAL PARTS LIST CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2. PRODUCT SAFETY NOTICE PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE.

[Page 11](#) Schematic Schematic Part No. Part No. Description Description Location Location
CAPACITORS C839 CK1H103ZLZFN G CERAMIC 0.01U Z C840 CK1H333KLZBNG CERAMIC 0.033U
K C001 CPXLB1C100YAN NP-ELECT 10U M C841 CEXLB1H2R2VDN ELECT 2.2 U M C001
CPXLB1C100ZAN NP-ELECT 10U M C841 CEXLB1H2R2WAN ELECT 2.2U M C002
CK1H104ZLZFN G...

[Page 12](#) Schematic Schematic Part No. Part No. Description Description Location Location
C1630 CEXLB1C101WAN ELECT 100U M C5510 CK1A105ZLZFN G CERAMIC 1U Z C1631
CK1H104ZLZFN G CERAMIC 0.1U Z C5511 CEXLB1H100VDN ELECT 10U M C1632
CK1H104ZLZFN G CERAMIC 0.1U Z C5511 CEXLB1H100WAN ELECT 10U M C1633
CEXLB0J102VDN ELECT...

[Page 13](#) Schematic Schematic Part No. Part No. Description Description Location Location
C5578 CEXLB0J221VDN ELECT 220U M 6.3V C6105 CC1H3R0CLZCNG CERAMIC 3P C C5578
CEXLB0J221WAN ELECT 220U M 6.3V C6106 CC1H390JLZCNG CERAMIC 39P J C5580
CK1H104ZLZFN G CERAMIC 0.1U Z C6107 CK1A105ZLZFN G CERAMIC 1U Z C5581
CK1H104ZLZFN G...

[Page 14](#) Schematic Schematic Part No. Part No. Description Description Location Location
C6242 CK1H104ZLZFN CERAMIC 0.1U Z C6336 CK1H103ZLZFN CERAMIC 0.01U Z C6243
CK1H104ZLZFN CERAMIC 0.1U Z C6337 RGFR000ZTCANL MT-GLAZE 0.000 ZA 1/10W C6244
CK1H104ZLZFN CERAMIC 0.1U Z C6338 CK0J475KLZBN CERAMIC 4.7U K 6.3V C6245
CK1H104ZLZFN...

[Page 15](#) Schematic Schematic Part No. Part No. Description Description Location Location
IC805 QTC7SH08FU--P IC TC7SH08FU L1632 1AV4L2WK560MN INDUCTOR, 56U M IC806
QTC7SET08FU-P IC TC7SET08FU L1632 1LB4L26B1030N INDUCTOR, 56UH IC1201
QCD4052BNSR-P IC CD4052BNSR L1640 RGFR000ZTAANL MT-GLAZE 0.000 ZA 1/10W IC1201
QTC4052BF---P IC TC4052BF-EL L1656 RGFR000ZTAANL MT-GLAZE 0.000 ZA 1/10W...

[Page 16](#) Schematic Schematic Part No. Part No. Description Description Location Location
L5514 RGFR000ZTAANL MT-GLAZE 0.000 ZA 1/10W L6226 RGFR000ZTAANL MT-GLAZE 0.000
ZA 1/10W L5516 RGFR000ZTAANL MT-GLAZE 0.000 ZA 1/10W L6227 RGFR000ZTAANL MT-
GLAZE 0.000 ZA 1/10W L5545 1AV4L2WK150MN INDUCTOR, 15U M L6250 RGFR000ZTAANL MT-
GLAZE 0.000 ZA 1/10W L5545...

[Page 17](#) Schematic Schematic Part No. Part No. Description Description Location Location
Q803 T2SC2412K-S-P TR 2SC2412K-T-96-S Q1203 T2SC2812N-L6P TR 2SC2812N-L6-TB Q803
T2SC2812-L6-P TR 2SC2812-L6-TB Q1203 T2SC3928A1R-P TR 2SC3928A1R Q803 T2SC2812-L7-
P TR 2SC2812-L7-TB Q1203 T2SC3928A1S-P TR 2SC3928A1S Q803 T2SC2812N-L6P TR
2SC2812N-L6-TB Q1251 T2SC2412K-R-P TR 2SC2412K-T-96-R Q803 T2SC3928A1R-P...

[Page 18](#) Schematic Schematic Part No. Part No. Description Description Location Location
Q1605 T2SC2412K-R-P TR 2SC2412K-T-96-R Q5802 T2SA1037K-S-P TR 2SA1037K-T-96-S Q1605
T2SC2412K-S-P TR 2SC2412K-T-96-S Q5802 T2SA1179-M6-P TR 2SA1179-M6 Q1605 T2SC2812-
L6-P TR 2SC2812-L6-TB Q5802 T2SA1179-M7-P TR 2SA1179-M7-TB Q1605 T2SC2812-L7-P TR
2SC2812-L7-TB Q5802 T2SA1179N-M6P TR 2SA1179N-M6-TB Q1605 T2SC2812N-L6P...

[Page 19](#) Schematic Schematic Part No. Part No. Description Description Location Location
Q6250 T2SA1179-M6-P TR 2SA1179-M6 RB6205 1AV4R1D33304G R-NETWORK 33X4 1/32W
Q6250 T2SA1179-M7-P TR 2SA1179-M7-TB RB6206 1AV4R1D33304G R-NETWORK 33X4 1/32W
Q6250 T2SA1179N-M6P TR 2SA1179N-M6-TB RB6330 1AV4R1D31504G R-NETWORK 15X4
1/32W Q6250 T2SA1235A1E-P TR 2SA1235A1E RB6355 1AV4R1D30R04G R-NETWORK...

[Page 20](#) Schematic Schematic Part No. Part No. Description Description Location Location
R854 RGF4701JTCANL MT-GLAZE 4.7K JA 1/10W R1051 RGF4700JTCANL MT-GLAZE 470 JA
1/10W R855 RGF4701JTCANL MT-GLAZE 4.7K JA 1/10W R1052 RGF1001JTCANL MT-GLAZE 1K JA
1/10W R856 RGF4701JTCANL MT-GLAZE 4.7K JA 1/10W R1053 RGF1003JTCANL MT-GLAZE...

[Page 21](#) Schematic Schematic Part No. Part No. Description Description Location Location
R1602 RGF1001FTCANL MT-GLAZE 1K FA 1/10W R1803 RGF1000JTCANL MT-GLAZE 100 JA
1/10W R1606 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R1806 RGF1000JTCANL MT-GLAZE 100
JA 1/10W R1607 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R1807 RGF1000JTCANL MT-GLAZE...

[Page 22](#) Schematic Schematic Part No. Part No. Description Description Location Location
R5532 RGF1501JTCANL MT-GLAZE 1.5K JA 1/10W R5905 RGFR000ZTCANL MT-GLAZE 0.000 ZA
1/10W R5538 RGF1000JTCANL MT-GLAZE 100 JA 1/10W R5906 RGF1002JTCANL MT-GLAZE 10K
JA 1/10W R5540 RGF1000JTCANL MT-GLAZE 100 JA 1/10W R5907 RGF1002JTCANL MT-GLAZE...

[Page 23](#) Schematic Schematic Part No. Part No. Description Description Location Location
R6233 RGF33R0JTCANL MT-GLAZE 33 JA 1/10W R6334 RGFR000ZTCANL MT-GLAZE 0.000 ZA
1/10W R6235 RGF1000JTCANL MT-GLAZE 100 JA 1/10W R6335 RGFR000ZTCANL MT-GLAZE
0.000 ZA 1/10W R6236 RGF1000JTCANL MT-GLAZE 100 JA 1/10W R6337 RGF4700JTCANL MT-
GLAZE...

[Page 24](#) Schematic Schematic Part No. Part No. Description Description Location Location
MISCELLANEOUS INVERTER / POWER BOARD A001 1AA0B10N234B0 ASSY, PWB, MAIN-N4TG
U901 1LB4U20B01500 UNIT, INVERTER-POWER BRD A002 1AA0B10N22500 ASSY, PWB,
CONTROL-N4SG Non-servicable part. No discreet parts are supplied for this PC A1902
1AV4U20B99401 UNIT, REMOCON RECEIVER...

[Page 25: Cabinet Parts List](#)

1AA2CBM0429-- CABINET BACK-N4TE 1JC6P1P0250B- OWNER'S MANUAL (Spanish)
1AA2BUM0529-- BUTTON UNITED-N3HE 1JC6P1P0251B- OWNER'S MANUAL (French)
1AA2DEM0444-- DEC IND 1LB0U10B01801 ASSY, REMOCON 1AA2SDM0172-- STAND COVER
1AA2RCM0305-- RC BATTERY LID 1AA0HGF0015-- ASSY HINGE 1AA2DES0915-- DEC SHEET
HDTV 1AV2BAAS016A- BADGE, SANYO — 25 —...

[Page 26: Component And Testpoint Locations](#)

COMPONENT AND TESTPOINT LOCATIONS MAIN BOARD PARTS SIDE R866 K_DL R1629 K_DEBUG
K1000 R842 R1633 R843 R892 R1635 D9100 R844 R9107 K9100 R864 R1684 L2014 C701 R865
C683 C825 R1637 R1648 R1688 R863 L1605 IC001 R858 R1681 IC001A RB6355 R872 R1634
IC001B R6264...

[Page 27](#) MAIN BOARD FOIL SIDE L1723 L1722 SC1508 K9100 L2017 L1721 R1515 R017
R9108 L2016 R1517 C011 K_DL IC001 L1713 R1518 R1805 C842 R9105 K_DEBUG C694 IC001A
C002 R1516 SC1805 IC001B R9101 L1716 SC1509 IC001C K1000 L6704 R1807 R9106 IC001D
SC1806 C689 R1803 C010...

[Page 28](#) BLOCK DIAGRAM POWER LINES — 28 —...

[Page 29: Block Diagrams](#)

BLOCK DIAGRAM SIGNAL LINES — 29 —...

[Page 30](#) IC BLOCK DIAGRAMS IC001, Audio AMP Standby Standby SW CH 1 CH 1 CH 1 CH 1
Input Output (in) (out) RNf1 PRE-GND POWER TSD Protector (For input) (Thermal protection
circuit) (For output) RNf2 CH 2 CH 2 CH 2 Output CH 2 (in)

[Page 31](#) IC1600, DC to DC Converter IC1620, DC to DC Converter — 31 —...

[Page 32](#) IC BLOCK DIAGRAMS (CONT.) IC1630, DC to DC Converter IC1640, DC to DC
Converter — 32 —...

[Page 33](#) IC5500 Screen Controller — 33 —...

[Page 34](#) IC BLOCK DIAGRAMS (CONT.) IC5700, IC5720 DDR: Double Data Rate SDRAM
IC6100, TS Demodulator — 34 —...

[Page 35](#) IC6200, A/D Converter — 35 —...

[Page 36: Troubleshooting Flow Charts](#)

TROUBLESHOOTING FLOW CHARTS NO POWER — 36 —...

[Page 37](#) NO VIDEO — 37 —...

[Page 38](#) TROUBLESHOOTING FLOW CHARTS (CONT.) NO AUDIO — 38 —...

[Page 39: Control Port Functions](#)

CONTROL PORT FUNCTIONS System Control (CPU : IC801) Pin Name Function I/O Description
CVin GND (0Vdc) P70/INT0/TOLCP LINE OFF Detect AC Voltage Reduction (Normal: High)
P71/INT1/TOHCP Reserve (Open) P72/INT2/TOIN Display Enable Display Enable for PDP
P73/INT3/TOIN RC in RC Input Key in Key Input AFT S-Figure in...

[Page 40](#) CONTROL PORT FUNCTIONS (Cont.) System Control (CPU : IC801 Cont.) Pin Name
Function I/O Description P12/SCK0 PDP/LCD Option Setting (PDP: High, LCD: Low) Panel Size 3
Panel Size Panel Size 2 Panel Size Panel Size 1 Panel Size Panel Size 0 Panel Size Reserve
(Open)

[Page 41: Schematic Notes](#)

SCHEMATIC DIAGRAMS NOTES ON SCHEMATIC DIAGRAMS 1. All resistance values in ohms

K=1,000 M=1,000,000. 2. Resistors specified with resistance value are "1/6DJ. " 3. Resistors specified with type of resistor, tolerance and resistance value are "1/4. " 4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF .

[Page 42: Pin Layouts](#)

IC, DIODE, AND TRANSISTOR PIN LAYOUTS INTEGRATED CIRCUITS PHOTO COUPLERS DIODES TRANSISTORS TOP VIEW TOP VIEW MARK COUNT TERMINALS IN ARROW DIRECTION SIDE VIEW INFRARED EMITTING B ... BASE C ... COLLECTOR A..ANODE E ... EMITTER K..CATHODE CHIP TRANSISTORS CHIP RESISTORS TOP VIEW TOP VIEW 12 x 10 = 12K ohm...

[Page 43: Pc Board Connections And Locations](#)

PC BOARD CONNECTIONS AND LOCATIONS — 43 —...

[Page 44: Capacitor And Resistor Codes](#)

YWire Wound CSolid DCarbon Film WWire Wound For parts or service contact Sanyo Manufacturing Corporation P .O. Box 2000 3333 Sanyo Road Forrest City, Arkansas 72335-2000 September 2007 SMC Published in U.S.A.

[Page 45: Schematic Diagrams](#)

MODEL DP19647 Chassis No. P19647-02 SCHEMATIC DIAGRAMS B4A10B04600 :B4A10B08100 NOTES; TO SPEAKER 1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/6DJ" Confidential ELEC TROSTATICALLY SENSATIVE DEVICES 2. RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE ELECTR OS TATICALL Y SENSATIVE DEVICES AND RESISTANCE VALLUE ARE "1/4".

[Page 46](#) MODEL DP19647 Chassis No. P19647-02 SCHEMATIC DIAGRAMS Confidential D3.3V *R6354 1/10GJ1KC LVDS_SW *Q6354 2SC2411KQP R6231 GND_LVDS 1/10GJ C6232 C6231 CJ15CL CJ15CL R6240 *C6365 A3.3V 1/10GZ0C KZ0.1LZF LVDS_POW X6201 L6201 C6236 C6235 1/10GZ0.0 V10B8280G L6396 R6241 1/10GZ0.0 0.1LZF 0.1LZF 1/10GZ0C C6364...

This manual is also suitable for:

[Dp19647](#)