

# Service Manual

Blu-ray Disc Player

Model No. **DMP-BDT180GA**  
**DMP-BDT280PU**  
**DMP-BDT280GN**

Colour

(K).....Black Type (DMP-BDT180GA/280PU)  
(S).....Silver Type (DMP-BDT280GN)



Please file and use this manual together with the service manual for Model No.DMP-BDT170GA, DMP-BDT170GN, DMP-BDT270GC, DMP-BDT270GT, DMP-BDT270PU, Order No.CHM1503007CE.

# 1 Specifications

<b>Power supply:</b>	AC 220-240V, 50/60 Hz (BDT180GA) AC 110-240V, 50/60 Hz (BDT280PU) AC 220-240V, 50 Hz (BDT280GN)
<b>Power consumption:</b>	Approx. 13W
in standby mode:	Approx. 0.5W
in quick start standby mode:	Approx. 5.5W
<b>Operating temperature range:</b>	+5 to +35°C (+41 to +95°F)
<b>Operating humidity range:</b>	10% to 80%RH (no condensation)
<b>Signal system:</b>	PAL/NTSC (BDT180GA/BDT280GN) NTSC (BDT280PU)
<b>HDMI AV output:</b>	
Output connector:	TypeA (19pin) 1 system
<b>USB slot:</b>	
USB2.0:	1 system
<b>Ethernet:</b>	
10BASE-T/100BASE-TX:	1 system
<b>WLAN:</b> (only for BDT280GN/PU)	
Antenna	Tx 1, Rx 1 + diversity
Standard Compliance	IEEE802.11n/g/b
Transmission system	OFDM system, DSSS system
Frequency Range	2.4GHz band
Transfer rate (standard)*	IEEE802.11n : Max 150Mbps
*Transfer rates are theoretical values; however, actual communication rate will vary according to communication environment or connected equipment.	IEEE802.11g : Max 54Mbps
	IEEE802.11b : Max 11Mbps
Access Mode	Infrastructure mode
Security*	WPA TM/WPA2 TM
*This unit supports WPA and WPA2 encryption.	(Encryption type : TKIP/AES, Authentication type : PSK WEP(64bit/128bit))
<b>Media:</b>	
<b>Playable disc:</b>	
BD-Video (Blu-ray 3D, BD-LIVE, BONUSVIEW):	BD-ROM Part3 Version 2.4
BD-RE:	Version3 (Single Layer/Dual Layer), JPEG, MPO:MP3, FLAC, WAV, AAC, WMA, DSD, ALAC
BD-R:	Version2 (Single Layer/Dual Layer), MKV(*4,*5,*6), Xvid(*6), RMVB(*7):MP3, FLAC, WAV, AAC, WMA, DSD, ALAC (BDT180GA) Version2 (Single Layer/Dual Layer), MKV(*4,*5,*6), Xvid(*6):MP3, FLAC, WAV, AAC, WMA, DSD, ALAC (BDT280GN/PU)
DVD-R:	DVD-Video format (*1), DVD Video Recording format(*1), AVCHD format(*1), JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*3,*5,*6), Xvid(*6), RMVB(*7), DSD, ALAC (BDT180GA) DVD-Video format (*1), DVD Video Recording format(*1), AVCHD format(*1), JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*3,*5,*6), Xvid(*6), DSD, ALAC (BDT280GN/PU)

DVD-R DL:	DVD-Video format (*1), DVD Video Recording format(*1), AVCHD format(*1), JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*3,*5,*6), Xvid(*6), RMVB(*7), DSD, ALAC (BDT180GA)
DVD-RW:	DVD-Video format (*1), DVD Video Recording format(*1), AVCHD format(*1), JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*3,*5,*6), Xvid(*6), DSD, ALAC (BDT280PU/GN)
+R:	Video(*1), AVCHD format(*1)
+R DL:	Video(*1), AVCHD format(*1)
+RW:	Video(*1), AVCHD format(*1)
DVD-VIDEO:	DVD-Video format
CD-Audio:	CD-DA
CD-R/CD-RW:	CD-DA, JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*5,*6), Xvid(*6), RMVB(*7), ALAC (BDT180GA) CD-DA, JPEG(*2), MPO(*2), MP3(*2), WAV(*2), FLAC(*2), AAC(*2), WMA(*2), MKV(*2,*5,*6), Xvid(*6), ALAC (BDT280PU/GN)

\*1: Finalizing is necessary.

\*2: ISO9660 level 1 or 2 (except for extended formats), Joliet.  
This unit is compatible with multi-session.

\*3: UDF1.02 without ISO9660, UDF1.5 with ISO9660.

\*4: UDF2.5.

\*5: MPEG-4 ASP Level 4.  
MPEG2 Video, AAC-LC, MP3, Dolby Digital audio, DTS, PCM, FLAC and Vorbis can be decoded.

\*6: Subtitle text support.

\*7: except BDT180GA

**SD card:** no SD card slot

<b>USB device:</b>	
USB Standard:	USB2.0 High Speed
Format:	FAT12, FAT16, FAT32, NTFS, MP3, JPEG, MPO, MKV(*6), MP4, MPEG2, Xvid(*6), RMVB(*7), MAV, FLAC, ALAC, DSD, AAC, WMA (BDT180GA) MP3, JPEG, MPO, MKV(*6), MP4, MPEG2, Xvid(*6), MAV, FLAC, ALAC, DSD, AAC, WMA (BDT280PU/GN)

## Contents:

<b>JPEG:</b>	
CD-R/RW, BD-RE, DVD-R, USB device:	
Pixels:	34x34~8192x8192
Sub Sampling:	4:2:2, 4:2:0
	Motion JPEG not supported

<b>MP3:</b>	
BD-R/RE, CD-R, CD-RW, DVD-R, USB device:	
Compression rate:	32kbps~320kbps
Sampling rate:	44.1kHz, 48kHz

<b>AVCHD (H.264):</b>	
DVD:	AVCHD format V1.0
<b>HDMI:</b>	480p(525p)/1080i(1125i)/720p(750p)/1080p(1125p) HDMI (V.1.4a with 3D, Content Type)(This unit supports "HDMI-CEC" function.)

**Playable disc:**

BD-ROM (SL/DL): Compliant Ver. 1.3  
(SL: Single Layer/DL: Dual Layer)  
BD-RE (SL/DL): BD-MV  
(SL: Single Layer/DL: Dual Layer)  
BD-R (SL/DL): BD-MV  
(SL: Single Layer/DL: Dual Layer)  
DVD-ROM (SL/DL): DVD-Video  
(SL: Single Layer/DL: Dual Layer)  
DVD-R: DVD-Video, DVD-VR  
DVD-R(DL): DVD-Video, DVD-VR  
DVD-RW: DVD-Video, DVD-VR  
+R: Video  
+R(DL): Video  
+RW: Video  
CD: CD-DA, CD-R/RW

**Optical pick-up:**

Wave length: System with 1 lenses  
790 nm (CDs)/660 nm (DVDs)/  
405 nm (BDs)

**LASER Specification:**

Class I LASER Product

Wave length: 790nm (CDs)/660 nm (DVDs)/  
405nm (BDs)

Laser power: No hazardous radiation is emitted  
with the safety protection

**Regional Code:**

DVD: #3 BD: Region A (BDT180GA)  
DVD: #4 BD: Region A (BDT280PU)  
DVD: #4 BD: Region B (BDT280GN)

**Dimensions:**

312mm(W) [Approx. 12 5/16"(W)]  
43mm(H) [Approx. 1 11/16"(H)]  
180mm(D) [Approx. 7 2/16"(D)]

**Mass:**

Approx. 1.0 kg ( 2.2 lbs)

**Solder:**

This model uses lead free  
solder(PbF).

**Note:**

Specifications are subject to  
change without notice.

## 2 Replacement Parts List

### 2.1. Mechanical Replacement Parts List

#### Notes:

\*Important safety notice:

Components identified by  $\Delta$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

\*Warning: This product uses a laser diode. Refer to caution statements.

\*Capacity values are in microfarads ( $\mu$ F) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).

\*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

\*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

\*\*("IA)" marks in Remarks indicate languages of instruction manuals. [ (IA): English]

\*All parts are supplied by CHPAVC.

**E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section.**

#### Notes:

\*Parts indicated with "ADJ" in the Remarks column are necessary to Input Engineering Adjusted Value.

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		■	CASING		
$\Delta$	1	SXY0012T	BD DRIVE	1	ADJ
$\Delta$	2	SEP0409AC	POWER P.C.B.	1	(RTL) E.S.D. BDT280GN
$\Delta$	2	SEP0409AD	POWER P.C.B.	1	(RTL) E.S.D. BDT280PU
$\Delta$	2	SEP0409AE	POWER P.C.B.	1	(RTL) E.S.D. BDT180GA
	3	SUKB0348AVT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT280GN
	3	SUKB0348AUT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT280PU
	3	SUKB0348ATT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT180GA
	4	C5ZZZ0000098	WIFI MODULE	1	BDT280GN/ BDT280PU
	5	SEE0162	WIFI CABLE	1	BDT280GN/ BDT280PU
	6	RGK2298-K	TRAY PANEL	1	
$\Delta$	7	RGR0444D2J	REAR PANEL	1	BDT280GN
$\Delta$	7	RGR0444D2N	REAR PANEL	1	BDT280PU
$\Delta$	7	RGR0444D2K	REAR PANEL	1	BDT180GA
	8	RMX0503	SPACER	1	BDT280GN/ BDT280PU
	9	RMZ1364A	BOTTOM CASE INSULATION SHEET	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	10	RSC1271	HEAT RADIATION PLATE	1	
	11	RKA0243-KU	FOOT RUBBER	1	
	12	RKA0243-KU	FOOT RUBBER	1	
	13	RKA0243-KU	FOOT RUBBER	1	
	14	RKA0243-KU	FOOT RUBBER	1	
	15	RGP1699AJ-K	FRONT PANEL	1	BDT280GN/ BDT280PU
	15	RGP1699AK-K	FRONT PANEL	1	BDT180GA
	16	RGL0803-Q	LED SHEET	1	
	17	RYF0980A-K	TRAY DOOR ASS'Y U	1	
	17-1	RMG0849-K	DOOR DAMPER	1	
	18	RMB0981-L	SPRING	1	
	19	RKM0746A-1S	TOP CASE	1	BDT280GN
	19	RKM0746A-K	TOP CASE	1	BDT280PU/ BDT180GA
	20	RGU2954A-S	FUNCTION BUTTON		BDT280GN
	20	RGU2954-K	FUNCTION BUTTON	1	BDT280PU/ BDT180GA
	21	RMF0723	SW BOARD BBD SHEET	1	
	22	RMF0723	SW BOARD BBD SHEET	1	
	50	RHD30168-J	SCREW	1	
	51	RHD30168-J	SCREW	1	
	52	RHD30168-J	SCREW	1	
	53	RHD30168-J	SCREW	1	
	54	RHD30168-J	SCREW	1	
	55	XSN3+4FJ	SCREW	1	
	56	XTB3+8JFJ	SCREW	1	
	57	XTB3+8JFJ	SCREW	1	
	58	XTB3+8JFJ	SCREW	1	
	59	RHD30119-U	SCREW	1	
$\Delta$	101	VQL2P54	LASER CAUTION LABEL	1	
	102	VMA0V86	YOKE	1	
	103	VMD6392-J	CLAMPER	1	
	104	VMD6881-2	TRAY	1	
	105	VMD6580	MID BASE	1	
	106	VDG1756-1J	PULLEY GEAR	1	
	107	VDG1757-J	MID GEAR	1	
	108	VEM0896-J	LOADING MOTOR U	1	
	109	VMD6390-J	SLIDE CAM	1	
	110	VMD6882-2	MECHA CHASSIS	1	
	111	VMG1720	BELT	1	
	112	VWJ2400-3	PICKFFC	1	
	113	VHD2268	NUT PIECE SCREW	1	
	114	VMB4004-J	NUT PIECE SPRING	1	
	115	VMD6754	NUT PIECE	1	
$\Delta$	116	SXA0041-SER	OPU	1	ADJ
	117	K0L1CE000001	SWITCH	1	
	118	VWJ2482	SW FFC	1	
	119	SXA0040-SER	TRAVERSE UNIT	1	
	119-1	L6KAYYYH0010	STEPPING MOTOR	1	
	119-2	VMS8126	SHAFT	1	
	119-3	VMB4682	SHAFT SPRING	1	
	119-4	VMB4682	SHAFT SPRING	1	
	119-5	XTN2+4FFJ	STEPPING MOTOR SCREW	1	
	119-6	XTN2+4FFJ	STEPPING MOTOR SCREW	1	
	119-7	VMG2037	DAMPER	1	
	119-8	VMG2037	DAMPER	1	
	119-9	VMG2037	DAMPER	1	
	119-10	VMG2037	DAMPER	1	
		■	ACCESSORY		
$\Delta$	A1	K2CJ2DA00014	AC CORD	1	BDT280GN
$\Delta$	A1	K2CQ2YY00126	AC CORD	1	BDT280PU/ BDT180GA
	A2	N2QAYB001031	REMOTE CONTROL UNIT	1	BDT280GN

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	A2	N2QAYB001027	REMOTE CONTROL UNIT	1	BDT280PU
	A2	N2QAYB001033	REMOTE CONTROL UNIT	1	BDT180GA
	A3	RPFC0023-1	POLYETHYLENE BAG	1	
	A4	RPFC0125	POLYETHYLENE BAG	1	BDT180GA
△	A5	SQT1274	OPERATING INSTRUCTIONS	1	BDT280GN/ BDT180GA
△	A5	SQT1270	OPERATING INSTRUCTIONS	1	BDT280PU
△	A6	SQT1281	OPERATING INSTRUCTIONS	1	BDT180GA
△	A12	K2CP2YY00061	AC CORD	1	BDT180GA
	A13	K1HY19YY0027	HDMI CORD	1	BDT180GA
	A14	K2DAYYY00002	POWER PLUG ADAPTOR	1	BDT280PU
		■	PACKING		
	PC1	SPU0178	PACKING CASE	1	BDT280GN
	PC1	SPU0166	PACKING CASE	1	BDT280PU
	PC1	SPU0179	PACKING CASE	1	BDT180GA
	PC2	RPFC0662	POLYETHYLENE BAG	1	
	PC3	RPN2736	CUSHION	1	
	PC4	RPN2736	CUSHION	1	

## 2.2. Electrical Replacement Parts List

### Notes:

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\*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

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\*All parts are supplied by CHPAVC.

**E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section.**

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		SEP0409AE	POWER P.C.B.	1	(RTL) E.S.D. BDT180GA
		SEP0409AD	POWER P.C.B.	1	(RTL) E.S.D. BDT280PU
		SEP0409AC	POWER P.C.B.	1	(RTL) E.S.D. BDT280GN
$\Delta$	C1001	F0CAF683A150	250V 0.068U	1	
$\Delta$	C1005	F1B2G471A027	400V 470P	1	
$\Delta$	C1006	F1B2G471A027	400V 470P	1	
$\Delta$	C1007	F0CAF2230005	250V 0.022U	1	
	C1016	F2B2G4700007	400V 47U	1	BDT180GA/ BDT280GN
	C1016	F2B2G6600001	400V 66P	1	BDT280PU
$\Delta$	C1018	F1BAF1020020	315V 1000P	1	
	C1021	F1A3D470A016	2000V 47P	1	
	C1022	F2A1H100A454	50V 10U	1	
	C1023	F1H2E101A006	250V 100P	1	
	C1024	F1H1H103B153	50V 0.01U	1	
	C1031	F1K2J2220002	630V 2200P	1	
	C1032	F1A3D470A016	2000V 47P	1	
	C1114	F1H1C104A209	16V 0.1U	1	
	C1118	F2A1C4710079	16V 470U	1	
	C1121	F2A1A1220012	10V 1200U	1	
	C1124	F1H1C104A209	16V 0.1U	1	
	C1125	F2A1E1010120	25V 100P	1	
	C1130	F2A1E1010120	25V 100P	1	
	C7002	F1H1A105A143	10V 1U	1	
	D1006	B0EDKT000007	DIODE	1	E.S.D.
	D1022	B0EAKM000192	DIODE	1	E.S.D.
	D1023	B0BA01700055	DIODE	1	E.S.D.
	D1024	B0BA03600036	DIODE	1	E.S.D.
	D1025	B0BA01700055	DIODE	1	E.S.D.
	D1031	B0EAKV000090	DIODE	1	E.S.D.
	D1110	B0JCPL000007	DIODE	1	E.S.D.
	D1111	B0JARG000017	DIODE	1	E.S.D.

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D7002	B3AAA0001191	DIODE	1	E.S.D.
$\Delta$	F1001	K5G202YA0159	FUSE	1	
	IC1021	C0DACYY00011	IC	1	E.S.D.
	IC1102	C0DBZYY00531	IC	1	E.S.D.
$\Delta$	L1001	G0B303D00005	COIL	1	
	L1103	G0C100MA0086	COIL	1	
	L1105	G0C100MA0085	COIL	1	
	LB7001	J0JHC0000046	COIL	1	
$\Delta$	P1001	K2AA2B000011	AC INLET	1	
	P1102	K1KY23AA1021	CONNECTOR	1	
	P1103	K1FY104B0104	CONNECTOR	1	
$\Delta$	Q1022	B3PBA0000756	TRANSISTOR	1	E.S.D.
	R1006	ERJ8GEYJ335V	1/8W 3300K	1	BDT180GA
	R1007	ERJ8GEYJ335V	1/8W 3300K	1	BDT180GA
	R1021	D0GZR22JA027	1/2W 0.22	1	
	R1022	D0GZR22JA027	1/2W 0.22	1	
	R1030	D0GD4R7JA052	1/8W 4.7	1	
	R1031	ERJ1TYJ473U	1W 47K	1	
	R1032	ERJ14YJ221U	1/4W 220	1	
	R1033	ERJ1TYJ220U	1W 22	1	
	R1111	D0GB102JA065	1/10W 1K	1	
	R1112	D0GB471JA065	1/10W 470	1	
	R1113	D0GB103JA065	1/10W 10K	1	
	R1115	D1BB8201A074	1/16W 8.2K	1	
	R1116	D0GB681JA065	1/16W 680	1	
	R1119	D1BB1002A074	1/16W 10K	1	
	R1121	D1BB1001A074	1/16W 1K	1	
	R1123	D0GD682JA052	1/8W 6.8K	1	
	R7002	D0GD911JA052	1/8W 910	1	
	R7005	D0GB330JA065	1/16W 33	1	
	S7001	EVQ11A05R	SWITCH (PLAY)	1	
	S7002	EVQ11A05R	SWITCH (STOP)	1	
	S7003	EVQ11A05R	SWITCH (OPEN/ CLOSE)	1	
	S7004	EVQ11A05R	SWITCH (POWER)	1	
$\Delta$	T1001	G4DYA0000473	TRANSFORMER	1	
$\Delta$	VA1001	ERZE08A471CS	VARISTOR	1	
	W501	D0GBR00J0004	1/16W 0	1	
	W502	D0GBR00J0004	1/16W 0	1	
	W503	D0GBR00J0004	1/16W 0	1	
	ZA1001	K9ZZ00001279	EARTH PLATE	1	
	ZA1005	K9ZZ00001279	EARTH PLATE	1	
	IR7001	PNJ4881M02VT	FL HOLDER	1	
		SUKB0348AVT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT280GN
		SUKB0348AUT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT280PU
		SUKB0348ATT	DIGITAL P.C.B.	1	E.S.D. ADJ BDT180GA
	C51001	F1G1A104A055	10V 0.1U	1	
	C51003	F1G1A104A055	10V 0.1U	1	
	C51005	F1G1A104A055	10V 0.1U	1	
	C51007	F1G1H200A557	50V 20P	1	
	C51008	F1G1H200A557	50V 20P	1	
	C51010	F1G1A104A055	10V 0.1U	1	
	C51014	F1G1A104A055	10V 0.1U	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C51015	F1G1A104A055	10V 0.1U	1	
	C51016	F1G1A104A055	10V 0.1U	1	
	C51017	F1G1A104A055	10V 0.1U	1	
	C51018	F1G1A104A055	10V 0.1U	1	
	C51019	F1G1A104A055	10V 0.1U	1	
	C51020	F1G1A104A055	10V 0.1U	1	
	C51021	F1G1A104A055	10V 0.1U	1	
	C51022	F1G1H101A774	50V 100P	1	
	C51023	F1G1A104A055	10V 0.1U	1	
	C51025	F1H0J475A010	6.3V 4.7U	1	
	C51026	F1G1A104A055	10V 0.1U	1	
	C51027	F1H0J475A010	6.3V 4.7U	1	
	C51028	F1G1A104A055	10V 0.1U	1	
	C51301	F1G1A104A055	10V 0.1U	1	
	C51302	F1G1A104A055	10V 0.1U	1	
	C52001	F1G1A104A055	10V 0.1U	1	
	C52002	F1G1A104A055	10V 0.1U	1	
	C52003	F1G1A104A055	10V 0.1U	1	
	C52004	F1G1A104A055	10V 0.1U	1	
	C52005	F1G1A104A055	10V 0.1U	1	
	C52007	F1G1A104A055	10V 0.1U	1	
	C52010	F1H0J1060006	6.3V 10U	1	
	C52012	F1G1A104A055	10V 0.1U	1	
	C52014	F1G1A104A055	10V 0.1U	1	
	C52016	F1G1A104A055	10V 0.1U	1	
	C52017	F1G1A104A055	10V 0.1U	1	
	C52019	F1G1A104A055	10V 0.1U	1	
	C52020	F1G1A104A055	10V 0.1U	1	
	C52021	F1G1A104A055	10V 0.1U	1	
	C52023	F1G1A104A055	10V 0.1U	1	
	C52024	F1G1A104A055	10V 0.1U	1	
	C52025	F1G1A104A055	10V 0.1U	1	
	C52027	F1G1A104A055	10V 0.1U	1	
	C52028	F1G1A104A055	10V 0.1U	1	
	C52100	F1G1A104A055	10V 0.1U	1	
	C52101	F1G1A104A055	10V 0.1U	1	
	C52102	F1G1A104A055	10V 0.1U	1	
	C52103	F1G1A104A055	10V 0.1U	1	
	C52105	F1G1A104A055	10V 0.1U	1	
	C52106	F1G1A104A055	10V 0.1U	1	
	C52107	F1G1A104A055	10V 0.1U	1	
	C52108	F1G1A104A055	10V 0.1U	1	
	C52109	F1G1A104A055	10V 0.1U	1	
	C52112	F1G1A104A055	10V 0.1U	1	
	C52115	F1G1A104A055	10V 0.1U	1	
	C52116	F1G1A104A055	10V 0.1U	1	
	C52117	F1G1A104A055	10V 0.1U	1	
	C52118	F1G1H101A541	50V 0.1NF	1	
	C52119	F1G1H101A541	50V 0.1NF	1	
	C52151	F1G1A104A055	10V 0.1U	1	
	C52153	F1G1A104A055	10V 0.1U	1	
	C52154	F1G1A104A055	10V 0.1U	1	
	C52156	F1G1A104A055	10V 0.1U	1	
	C52158	F1G1A104A055	10V 0.1U	1	
	C52159	F1G1A104A055	10V 0.1U	1	
	C52161	F1G1A104A055	10V 0.1U	1	
	C52162	F1G1A104A055	10V 0.1U	1	
	C52163	F1G1A104A055	10V 0.1U	1	
	C52164	F1G1H101A541	50V 0.1NF	1	
	C52165	F1G1H101A541	50V 0.1NF	1	
	C52201	F1G1A104A055	10V 0.1U	1	
	C52202	F1G1A104A055	10V 0.1U	1	
	C52204	F1G1A104A055	10V 0.1U	1	
	C52205	F1G1A104A055	10V 0.1U	1	
	C52207	F1G1A104A055	10V 0.1U	1	
	C52209	F1G1A104A055	10V 0.1U	1	
	C52210	F1G1A104A055	10V 0.1U	1	
	C52212	F1G1A104A055	10V 0.1U	1	
	C52214	F1G1A104A055	10V 0.1U	1	
	C52215	F1G1A104A055	10V 0.1U	1	
	C52216	F1G1A104A055	10V 0.1U	1	
	C52217	F1G1H101A541	50V 0.1NF	1	
	C52218	F1G1H101A541	50V 0.1NF	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C52219	F1G1A104A055	10V 0.1U	1	
	C55001	F1G1E102A134	25V 0.001U	1	
	C55016	F1G1A104A012	10V 0.1U	1	
	C55017	F1J1C475A059	16V 4.7U	1	
	C55018	F1G1A104A055	10V 0.1U	1	
	C55021	F1J1A106A043	10V 10U	1	BDT280PU
	C55026	F1H0J225A085	6.3V 2.2U	1	
	C55029	F2G1E470A066	25V 47U	1	
	C55030	F1G1A104A055	10V 0.1U	1	
	C55031	F1G1E1040001	25V 0.1U	1	
	C55032	F1K1E1060001	25V 10U	1	
	C55033	F1J1A106A043	10V 10U	1	
	C55038	F1J0J2260004	6.3V 22U	1	
	C55041	F1J0J2260004	6.3V 22U	1	
	C55042	F2G0J221A065	6.3V 220U	1	
	C55046	F1G1A104A055	10V 0.1U	1	
	C55054	F1H0J225A085	6.3V 2.2U	1	
	C55056	F1G1E102A086	25V 1NF	1	
	C55057	F1G1E102A086	25V 1NF	1	
	C55058	F1G1E102A086	25V 1NF	1	
	C55059	F1G1E102A086	25V 1NF	1	
	C55060	F1G0J1050007	6.3V 1U	1	
	C55061	F1G1C104A146	16V 0.1U	1	
	C55063	F1G1E102A086	25V 1NF	1	
	C55064	F1G1E1040001	25V 0.1U	1	
	C55065	F1G1E1040001	25V 0.1U	1	
	C55066	F1G1E1040001	25V 0.1U	1	
	C55067	F1G1A104A055	10V 0.1U	1	
	C55068	F1G1A104A055	10V 0.1U	1	
	C55076	F1G1C104A146	16V 0.1U	1	
	C55077	F1G1C104A146	16V 0.1U	1	
	C55079	F1G1A1040006	10V 0.1U	1	
	C55080	F1H0J225A085	6.3V 2.2U	1	
	C55081	F1H0J225A085	6.3V 2.2U	1	
	C55082	F1G1E103A134	25V 0.01U	1	
	C55083	F1G1E1030005	2.5V 0.01U	1	
	C55085	F1K1E1060001	25V 10U	1	
	C55086	F1G1E1040001	25V 0.1U	1	
	C55087	F1J1A106A043	10V 10U	1	
	C55088	F1G1C104A146	16V 0.1U	1	
	C55093	F1G1E102A086	25V 1NF	1	
	C55094	F1G1E102A086	25V 1NF	1	
	C55095	F1G1E102A086	25V 1NF	1	
	C55096	F1G1A104A055	10V 0.1U	1	
	C55098	F1G1A104A055	10V 0.1U	1	
	C55100	F1H1H682A219	50V 6800P	1	
	C55101	F1G1C104A077	16V 0.1U	1	
	C55102	F1J1C106A059	16V 10U	1	
	C55104	F1J1C106A269	16V 10U	1	
	C55105	F1K1E1060001	25V 10U	1	
	C55106	F1K1E105A029	25V 1U	1	
	C55110	F1J1E104A311	25V 0.1U	1	
	C55114	F1J1A106A043	10V 10U	1	BDT280PU
	C55115	F1J1A106A043	10V 10U	1	BDT280PU
	C55120	F1G1C104A146	16V 0.1U	1	
	C55122	F1J1A106A043	10V 10U	1	
	C56302	F1H1A105A143	10V 1U	1	
	C56303	F1H1A105A143	10V 1U	1	
	C56504	F1G1A104A055	10V 0.1U	1	
	C56505	F1G1A104A055	10V 0.1U	1	
	C56507	F1G1A104A055	10V 0.1U	1	
	C56508	F1G1A104A055	10V 0.1U	1	
	C56509	F1G1A104A055	10V 0.1U	1	
	C56511	F1G1A104A055	10V 0.1U	1	
	C58100	F1H1A105A143	10V 1U	1	
	C58101	F1H1A105A143	10V 1U	1	
	C58112	F1H1C104A178	16V 0.1U	1	
	C58113	F1H1E223A050	25V 0.022U	1	
	C58114	F1H1C104A178	16V 0.1U	1	
	C58120	F1H1A105A143	10V 1U	1	
	C58210	F1J0J106A014	6.3V 10U	1	
	C58221	F1J0J2260004	6.3V 22U	1	
	C58222	F1J0J2260004	6.3V 22U	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C58230	F1H1A105A143	10V 1U	1	
	C58231	F1G1C223A127	16V 0.022U	1	
	C58232	F1H1C104A178	16V 0.1U	1	
	C58233	F1H1H4700006	50V 47P	1	
	C58310	F1J1C1060001	16V 10U	1	
	C58321	F1J0J2260004	6.3V 22U	1	
	C58322	F1J0J2260004	6.3V 22U	1	
	C58330	F1H1A105A143	10V 1U	1	
	C58331	F1G1E682A134	25V 6800P	1	
	C58332	F1H1C104A178	16V 0.1U	1	
	C58400	F1J1A2250011	10V 2.2U	1	
	C58401	F1J1A2250011	10V 2.2U	1	
	C58402	F1G1C1030008	16V 0.01U	1	
	C58500	F1J0J106A014	6.3V 10U	1	
	C58501	F1J0J106A014	6.3V 10U	1	
	C58510	F1H1A105A143	10V 1U	1	BDT280PU/ BDT280GN
	C58511	F1H1C104A178	16V 0.1U	1	BDT280PU/ BDT280GN
	C59001	F1G1A104A055	10V 0.1U	1	
	C59002	F1G1A104A055	10V 0.1U	1	
	C59003	F1G1A104A055	10V 0.1U	1	
	C59004	F1G1A104A055	10V 0.1U	1	
	C59005	F1G1A104A055	10V 0.1U	1	
	C59006	F1G1A104A055	10V 0.1U	1	
	C59007	F1G1A104A055	10V 0.1U	1	
	C59008	F1G1A104A055	10V 0.1U	1	
	C59401	F1G1A104A055	10V 0.1U	1	
	C59402	F1G1A104A055	10V 0.1U	1	
	IC51001	SUKB0348AVT	IC	1	E. S. D. ADJ BDT280GN
	IC51001	SUKB0348AUT	IC	1	E. S. D. ADJ BDT280PU
	IC51001	SUKB0348ATT	IC	1	E. S. D. ADJ BDT180GA
	IC51301	SUKB0348AVT	IC	1	E. S. D. ADJ BDT280GN
	IC51301	SUKB0348AUT	IC	1	E. S. D. ADJ BDT280PU
	IC51301	SUKB0348ATT	IC	1	E. S. D. ADJ BDT180GA
	IC52001	C3ABTY000111	IC	1	E. S. D.
	IC52002	C3ABTY000111	IC	1	E. S. D.
	IC52201	C3ABUY000067	IC	1	E. S. D.
	IC55003	C0GBY0000130	IC	1	E. S. D.
	IC55004	C0DBGYY02449	IC	1	E. S. D.
	IC56301	C0DBGYY03992	IC	1	E. S. D.
	IC58100	C0DBGYY03975	IC	1	E. S. D.
	IC58111	C0EBY0000679	IC	1	E. S. D.
	IC58200	C0DBAYY01445	IC	1	E. S. D.
	IC58300	C0DBAYY02083	IC	1	E. S. D.
	IC58400	C0DBGYY03592	IC	1	E. S. D.
	IC58500	C0DBZYY00723	IC	1	E. S. D.
△	IP58510	ERBRE1R00V	SURFACE MOUNTING FUSE	1	BDT280PU/ BDT280GN
	JK56301	K1FY119E0087	JACK HDMI	1	
	JK59401	K2LC108E0016	JACK LAN	1	
	L55001	G1C100KA0101	COIL	1	
	L55002	G1C220MA0291	COIL	1	
	L55003	G1C100KA0101	COIL	1	
	L56301	J0ZZB0000194	COIL	1	BDT280PU/ BDT280GN
	L56301	J0MAB0000241	COIL	1	BDT180GA
	L56302	J0ZZB0000194	COIL	1	BDT280PU/ BDT280GN
	L56302	J0MAB0000241	COIL	1	BDT180GA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L58200	G1C3R3ZA0388	COIL	1	
	L58300	G1C3R3ZA0388	COIL	1	
	LB55001	J0JYC0000743	COIL	1	
	LB55002	J0JJC0000005	COIL	1	
	P51001	K1KY06AA0802	CONNECTOR (6P)	1	
	P55001	K1MY45A00001	CONNECTOR (45P)	1	
	P55003	K1MY04AA0308	CONNECTOR (4P)	1	
	P55004	K1MY05AA0308	CONNECTOR (5P)	1	
	P55005	K1MY05AA0308	CONNECTOR (5P)	1	
	P58001	K1KY23AA1442	CONNECTOR (23P)	1	
	P59301	K1KY04AA0802	CONNECTOR (4P)	1	BDT280PU/ BDT280GN
	Q55002	B1ABCF000304	TRANSISTOR	1	E. S. D.
	Q56301	B1ABDF000026	TRANSISTOR	1	E. S. D.
	Q58120	B1CHRD000092	TRANSISTOR	1	E. S. D.
	Q58510	B1CHRD000092	TRANSISTOR	1	E. S. D. BDT280PU/ BDT280GN
	QR51001	B1GBCFJN0039	TRANSISTOR	1	E. S. D.
	QR51002	B1GDCFEJ0010	TRANSISTOR	1	E. S. D.
	QR58120	B1GBCFNN0041	TRANSISTOR	1	E. S. D.
	QR58510	B1GBCFNN0041	TRANSISTOR	1	E. S. D. BDT280PU/ BDT280GN
	R51001	D0GA105JA023	1/16W 1000K	1	
	R51002	D0GAR00J0005	1/16W 0	1	
	R51005	D0GA103JA023	1/16W 10K	1	
	R51006	D0GA103JA023	1/16W 10K	1	
	R51007	D0GA103JA023	1/16W 10K	1	
	R51008	D0GA101JA023	1/16W 100	1	
	R51009	D0GA103JA023	1/16W 10K	1	
	R51010	D0GA101JA023	1/16W 100	1	
	R51018	D0GA472JA023	1/16W 4.7K	1	
	R51020	D0GA472JA023	1/16W 4.7K	1	
	R51022	D0GA472JA023	1/16W 4.7K	1	
	R51023	D0GA121JA023	1/16W 120	1	
	R51024	D0GA121JA023	1/16W 120	1	
	R51025	D0GA103JA023	1/16W 10K	1	
	R52100	D1BA1000A023	1/16W 100	1	
	R52101	D1BA1000A023	1/16W 100	1	
	R52102	D1BA1000A023	1/16W 100	1	
	R52103	D1BA2400A023	1/16W 240	1	
	R52150	D1BA1000A023	1/16W 100	1	
	R52151	D1BA2400A023	1/16W 240	1	
	R52152	D1BA1000A023	1/16W 100	1	
	R52153	D1BA1000A023	1/16W 100	1	
	R52201	D1BA1000A023	1/16W 100	1	
	R52202	D1BA1000A023	1/16W 100	1	
	R52203	D1BA2400A023	1/16W 240	1	
	R52204	D1BA1000A023	1/16W 100	1	
	R52205	D0GA470JA023	1/16W 47	1	
	R52206	D0GA470JA023	1/16W 47	1	
	R55012	D0GA333JA023	1/16W 33K	1	
	R55017	D0GA202JA023	1/16W 2K	1	
	R55018	D0GA222JA023	1/16W 2.2K	1	
	R55020	D0GA103JA023	1/16W 10K	1	
	R55029	D0GA121JA023	1/16W 120	1	
	R55030	D0GA121JA023	1/16W 120	1	
	R55031	D0GA121JA023	1/16W 120	1	
	R55040	ERJ8RQFR39V	1/8W 39	1	
	R55041	ERJ8RQFR39V	1/8W 39	1	
	R55050	D0GA103JA023	1/16W 10K	1	
	R55051	D0GB913JA065	1/10W 91K	1	
	R55104	ERJ14YJ681U	1/10W 680	1	
	R55105	ERJ14YJ681U	1/10W 680	1	
	R55106	ERJ14YJ681U	1/10W 680	1	
	R55108	D0GA473JA023	1/16W 47K	1	
	R55113	D0GA272JA023	1/16W 2.7K	1	
	R56301	D0GA273JA023	1/16W 27K	1	



Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R56302	D0GA101JA023	1/16W 100	1	
	R56505	D0GA102JA023	1/16W 1K	1	
	R58110	D0GA103JA023	1/16W 10K	1	
	R58120	D0GA473JA023	1/16W 47K	1	
	R58121	D0GA103JA023	1/16W 10K	1	
	R58130	D0GDR00J0004	1/8W 0	1	
	R58230	D1BA2202A022	1/32W 22K	1	
	R58231	D1BA2701A022	1/16W 2.7K	1	
	R58232	D1BA1002A022	1/32W 10K	1	
	R58233	D0GB330JA065	1/10W 33	1	
	R58330	D1BA2202A022	1/32W 22K	1	
	R58331	D0GAR00J0005	1/16W 0	1	
	R58332	D1BA2202A022	1/32W 22K	1	
	R58333	D0GB220JA065	1/16W 22	1	
	R58500	D0GA681JA023	1/16W 680	1	
	R58501	D0GA153JA023	1/16W 15K	1	
	R58510	D0GA473JA023	1/16W 47K	1	BDT280PU/ BDT280GN
	R58511	D0GA103JA023	1/16W 10K	1	BDT280PU/ BDT280GN
	R59001	D1BA5101A022	1/16W 5.1K	1	
	R59002	D1BA5101A022	1/16W 5.1K	1	
	R59003	D1BA2402A022	1/32W 24K	1	
	R59102	D0GA103JA023	1/16W 10K	1	
	R59103	D0GA103JA023	1/16W 10K	1	
	R59202	D0GA103JA023	1/16W 10K	1	
	R59203	D0GA103JA023	1/16W 10K	1	
	R59302	D0GA103JA023	1/16W 10K	1	
	R59307	D0GAR00J0005	1/16W 0	1	BDT280PU/ BDT280GN
	R59308	D0GAR00J0005	1/16W 0	1	BDT280PU/ BDT280GN
	R59401	D0GA750JA023	1/16W 75	1	
	R59402	D0GA750JA023	1/16W 75	1	
	R59403	D0GA750JA023	1/16W 75	1	
	R59404	D0GA750JA023	1/16W 75	1	
	RX51003	D1H81034A042	RESISTOR-RESISTOR	1	
	RX51004	D1H81034A042	RESISTOR-RESISTOR	1	
	RX51006	D1H81034A042	RESISTOR-RESISTOR	1	
	RX51007	D1H81014A042	RESISTOR-RESISTOR	1	
	RX51301	D1H84724A042	RESISTOR-RESISTOR	1	
	RX52201	D1H81024A042	RESISTOR-RESISTOR	1	
	RX52202	D1H81024A042	RESISTOR-RESISTOR	1	
	RX52203	D1H81024A042	RESISTOR-RESISTOR	1	
	RX52204	D1H81024A042	RESISTOR-RESISTOR	1	
	RX52205	D1H81024A042	RESISTOR-RESISTOR	1	
	RX55006	D1H81024A042	RESISTOR-RESISTOR	1	
	RX56302	D1H82024A042	RESISTOR-RESISTOR	1	
	T59201	JOZZB0000182	TRANSFORMER	1	
	T59401	G5BYC0000040	TRANSFORMER	1	
	X51001	H0J270500185	OSCILLATOR	1	
	ZA51000	RMV0444	RADIATOR SHEET	1	