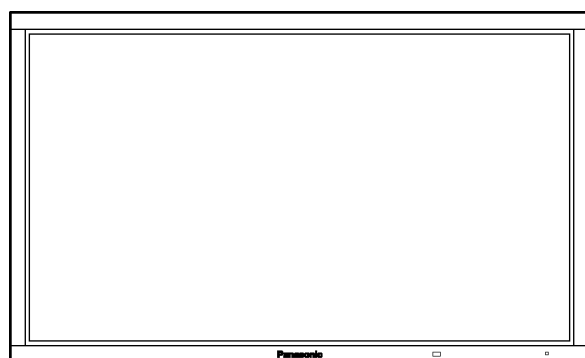


Service Manual

High Definition Plasma Display

TH-103PF9WK

GPF9D Chassis



Please file and use this manual together with the service manual for Model No.TH-103PF9EK, Order No.ITD0610074CE.

Specifications

Power Source	220 V - 240 V AC, 50 / 60Hz
Power Consumption	
Power on	1,500 W
Stand-by condition	Save OFF 1.5 W, Save ON 1.3 W
Power off condition	0.5 W
Plasma Display panel	Drive method: AC type 103-inch, 16:9 aspect ratio
Screen size	2,269 mm (W) × 1,277 mm (H) × 2,604 mm (diagonal)
(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]
Operating condition	
Temperature	0 °C - 40 °C
Humidity	20 % - 80 %
Applicable signals	
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC
Scanning format	525 (480) / 60i • 60p, 625 (575) / 50i • 50p, 750 (720) / 60p • 50p, 1125 (1080) / 60i • 60p • 50i • 50p • 24p • 25p • 30p • 24sF SMPTE274M, 1250 (1080) / 50i
PC signals	VGA, SVGA, XGA, SXGA, UXGA (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz

Connection terminals

Panasonic®

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DVI-D	Video Input	DVI-D 24 Pin × 1 compliance with DVI Revision 1.0
	Audio Input	Stereo mini jack (M3) × 1 0.5Vrms
	Content Protection	Compatible with HDCP 1.1
COMPONENT / RGB	Y / G (BNC) P _B / B (BNC), P _R / R (BNC)	Y or G with / sync 1.0 Vp-p (75-ohm) 0.7 Vp-p (75-ohm)
PC	AUDIO IN (RCA PIN JACK × 2) (HIGH-DENSITY Mini D-SUB 15PIN)	0.5 Vrms Y or G with / sync 1.0 Vp-p (75-ohm) Y or G without / sync 0.7 Vp-p (75-ohm)
	B / P _B / C _B : R / P _R / C _R : HD / VD: VBS (use HD port)	0.7 Vp-p (75-ohm) 0.7 Vp-p (75-ohm) 1.0 - 5.0 Vp-p (high impedance) with / picture 1.0 Vp-p (high impedance) without / picture 0.3 Vp-p (high impedance)
SERIAL	AUDIO IN (M3 JACK)	0.5 Vrms
AUDIO OUT	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RCA PIN JACK × 2 (L / R) OUTPUT LEVEL : VARIABLE (- ∞ - 0 dB)	RS-232C COMPATIBLE [INPUT 1KHz / 0dB, 10Kohm Load]
Accessories Supplied		
	Remote Control Transmitter	EUR7636070R
	Batteries	2 × R6 Size
	Fixing bands	(TMME203 or TMME187) × 2
Dimensions (W × H × D)	2,414 mm × 1,421 mm × 129 mm (141 mm when including protruding portion of slots)	
Mass (weight)		
	main unit only	approx. 220.0 kg net

Notes:

- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

**WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

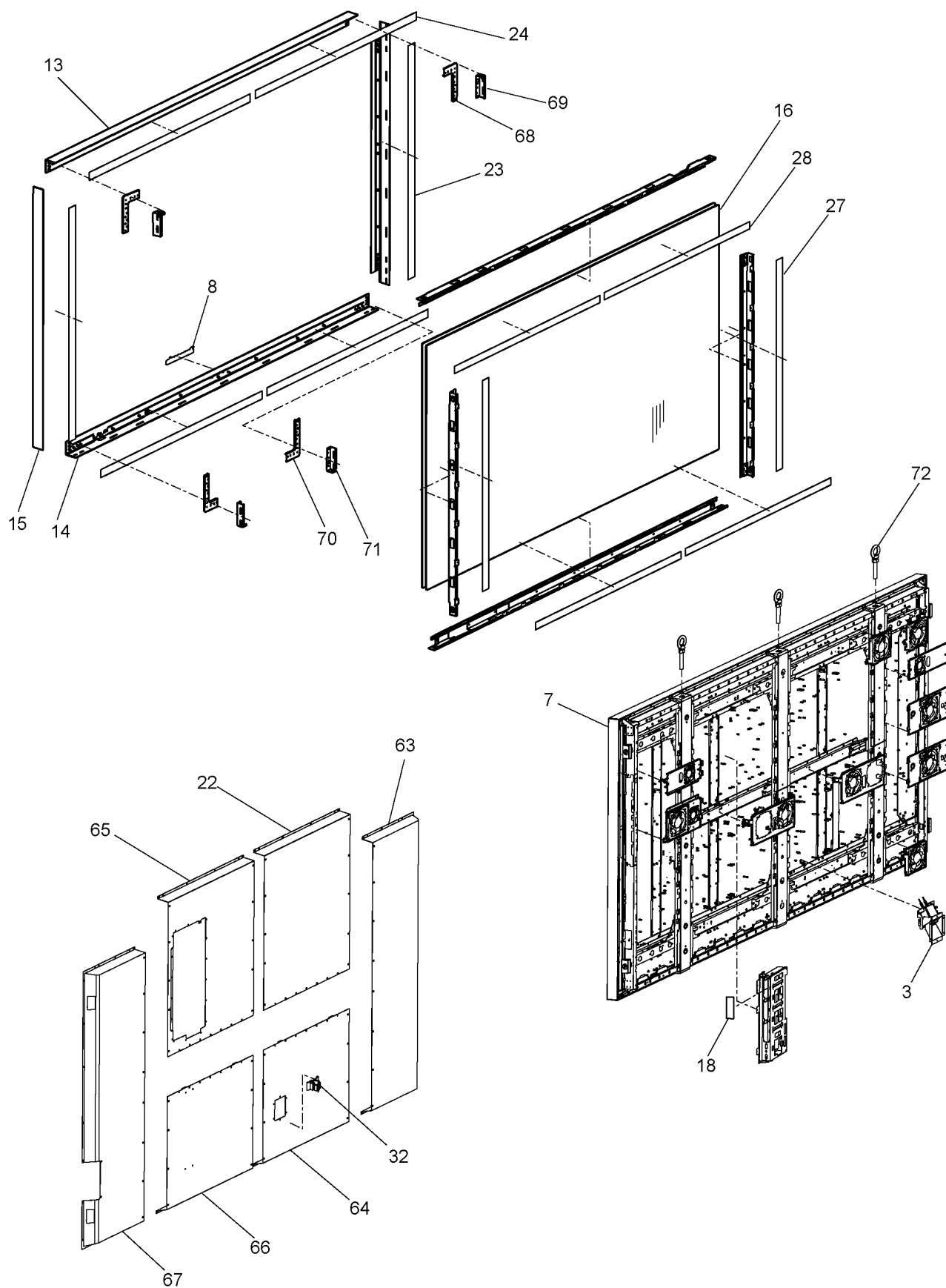
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1 Parts Location	3	1.3. Board and Fuse	6
1.1. Exploded View	3	1.4. Packing summary	7
1.2. Cable and Fan	6	2 Replacement Parts List	14

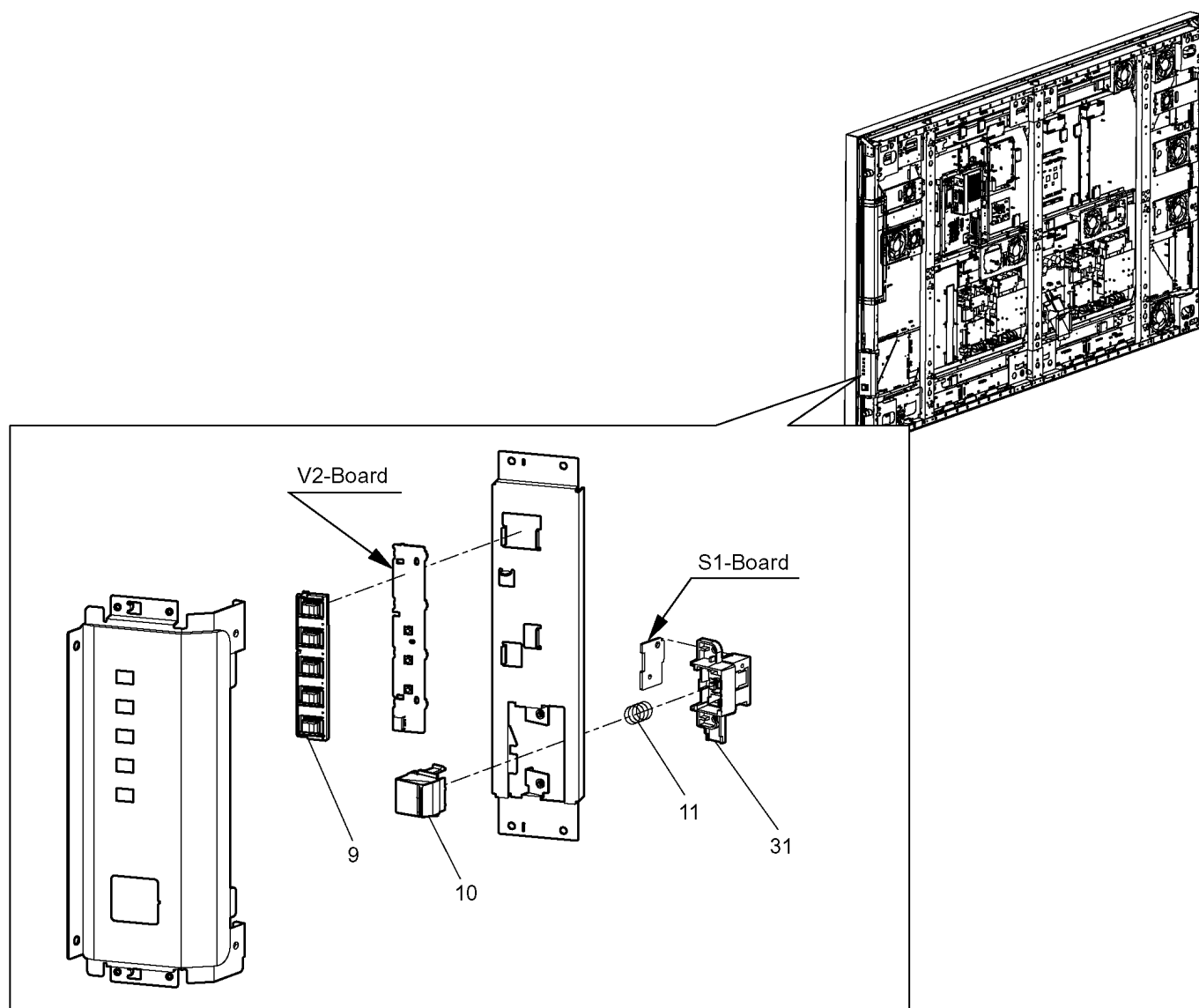
1 Parts Location

1.1. Exploded View

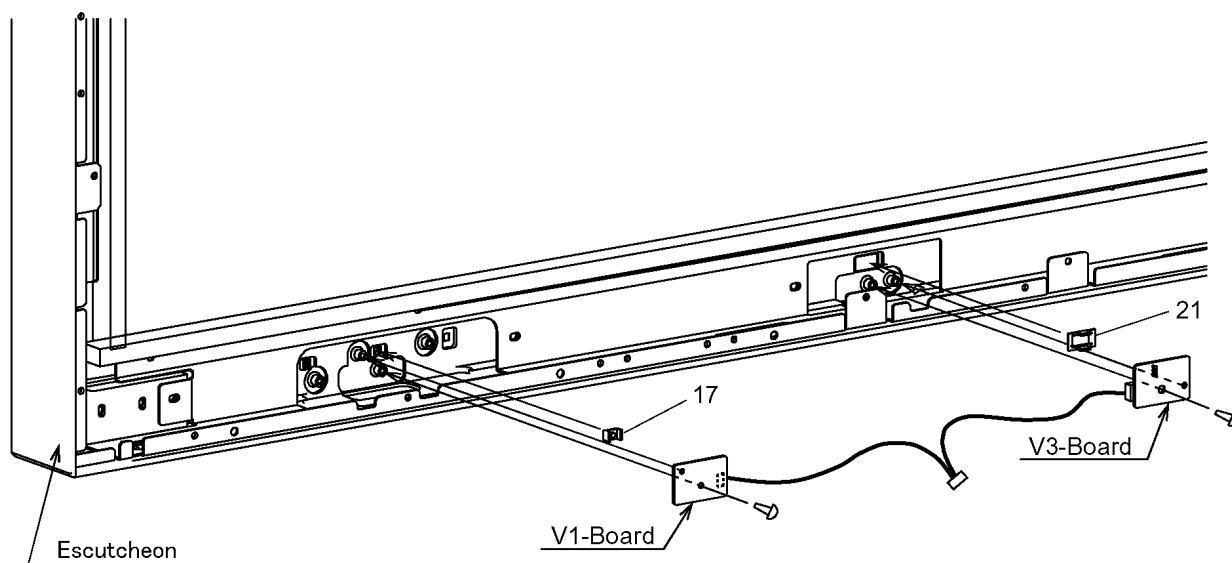
1.1.1. The main mechanical parts relation



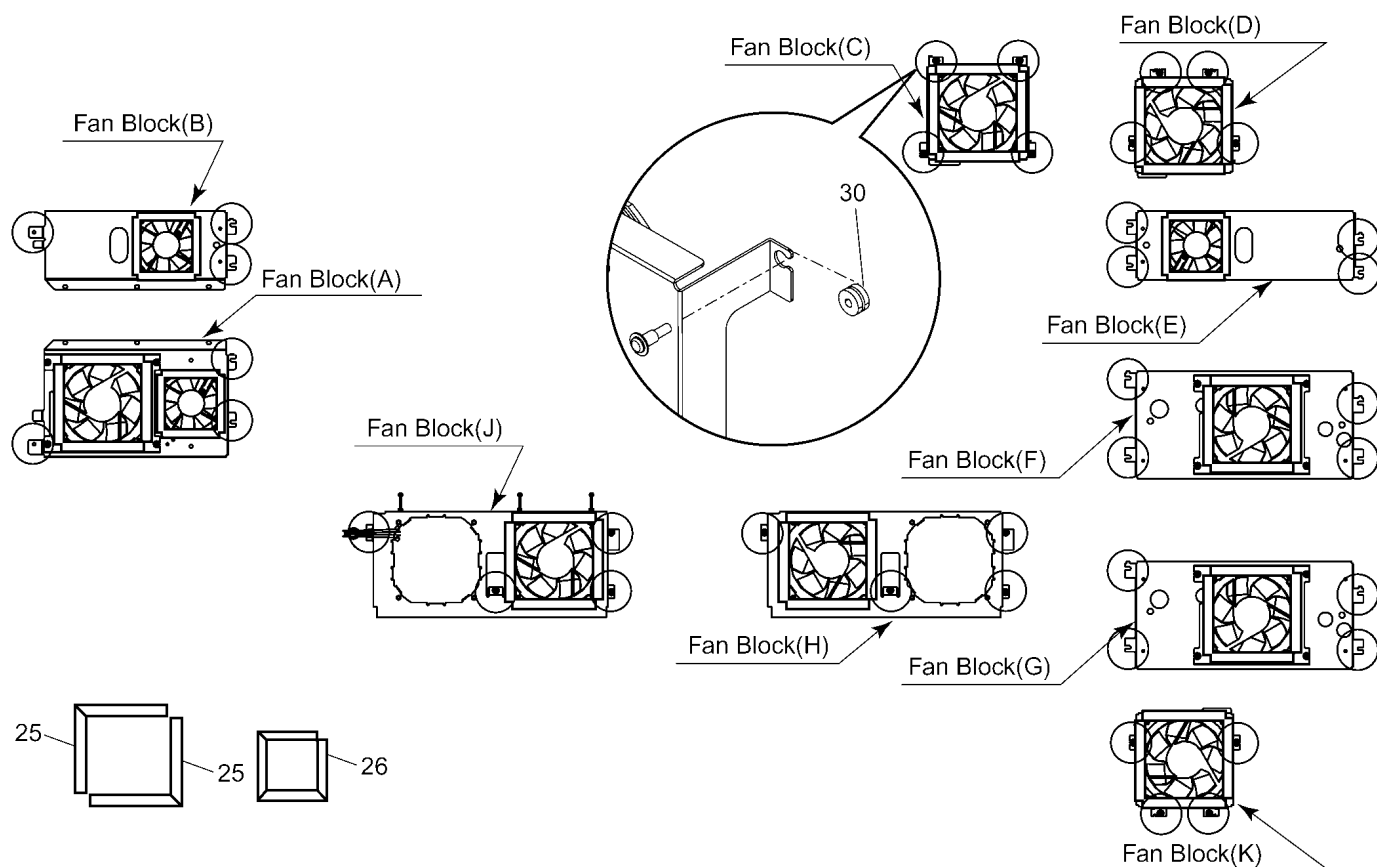
1.1.2. Customer Control part location enlarged view



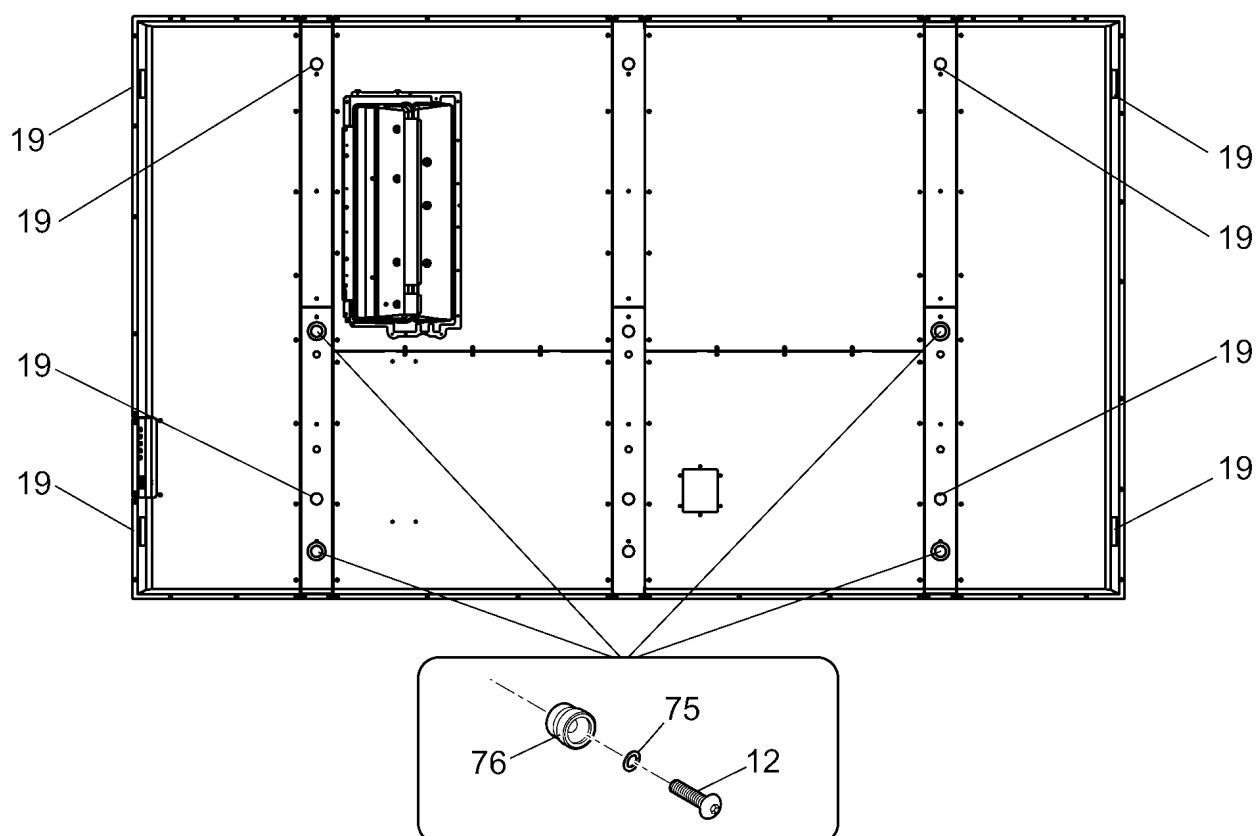
1.1.3. Escutcheon part location enlarged view



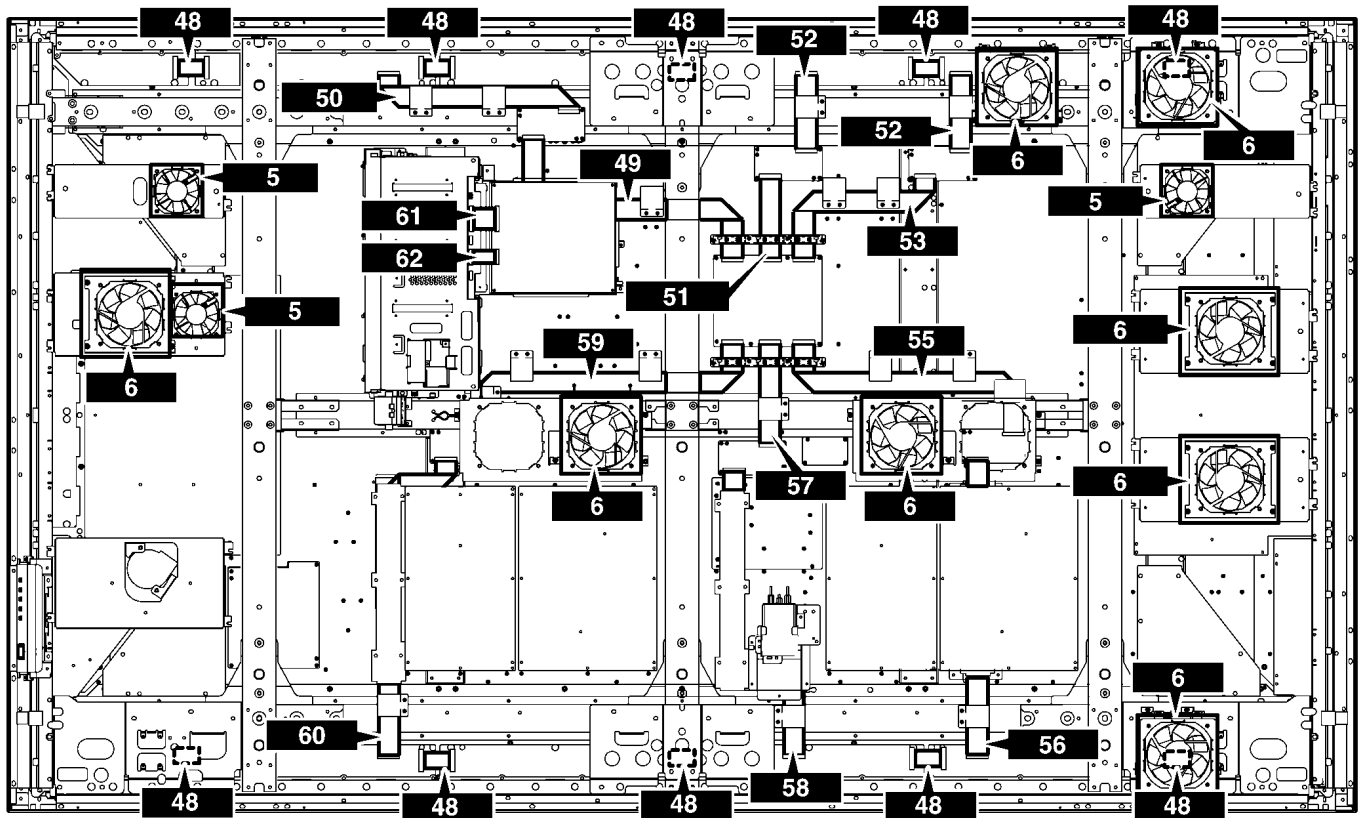
1.1.4. Fan part location enlarged view



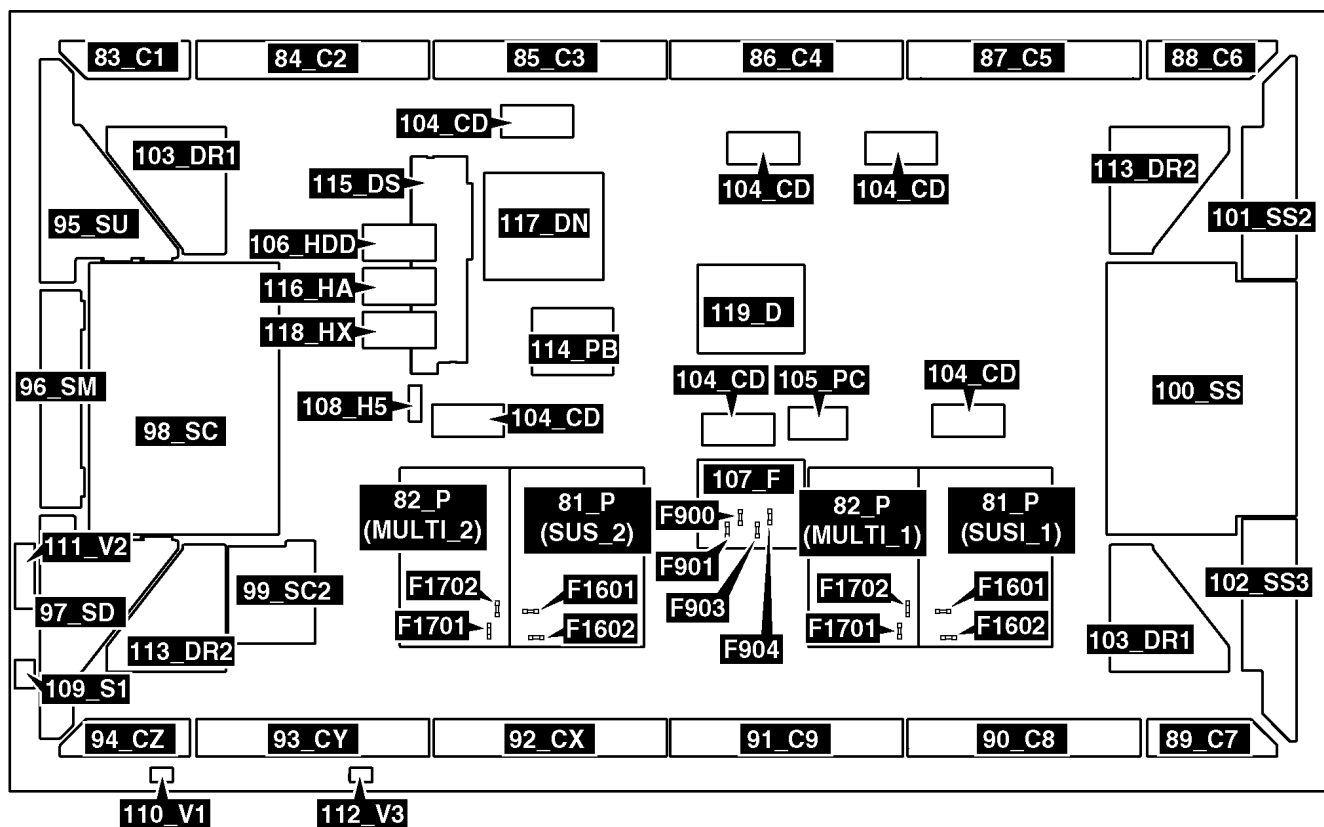
1.1.5. Rear cover location enlarged view



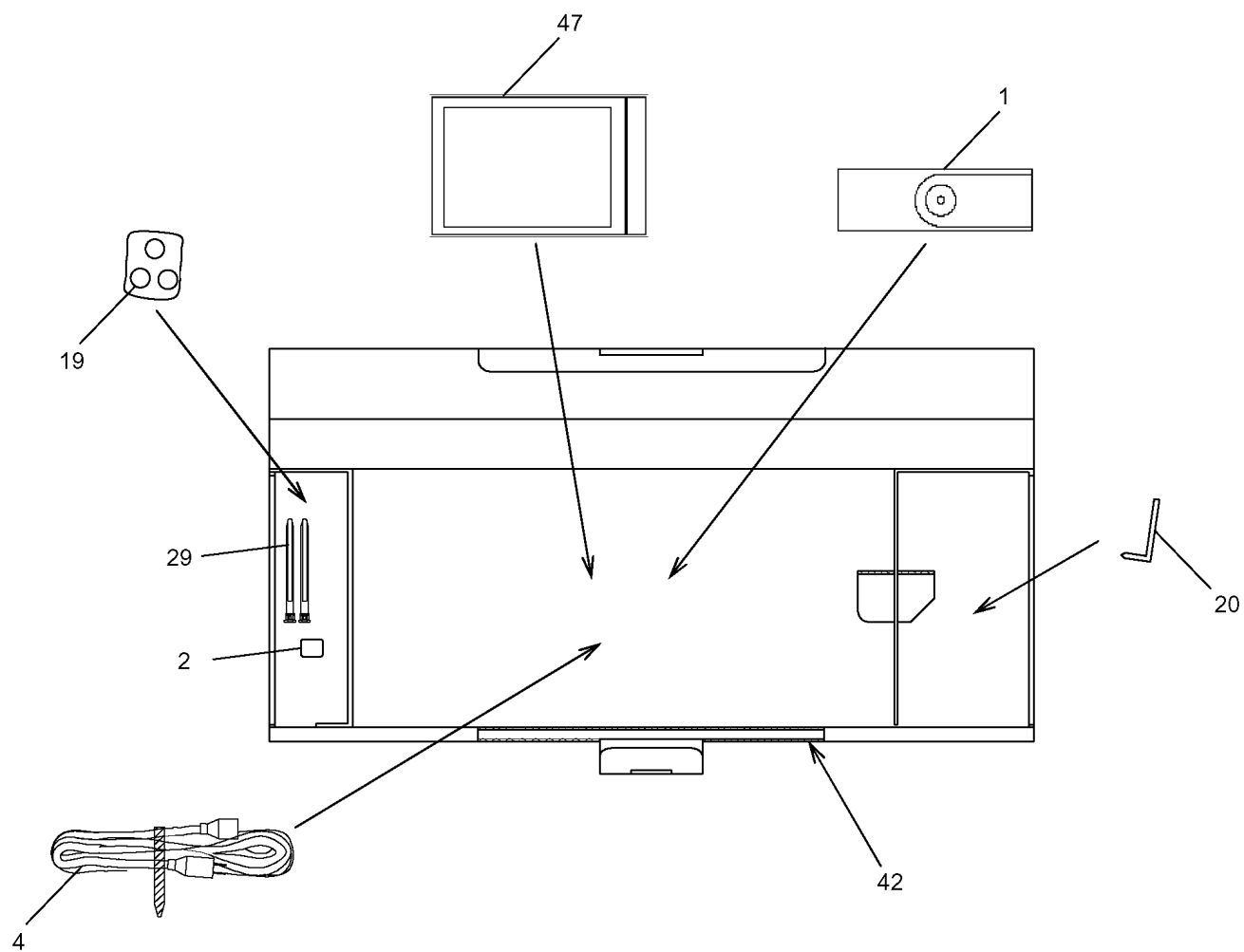
1.2. Cable and Fan

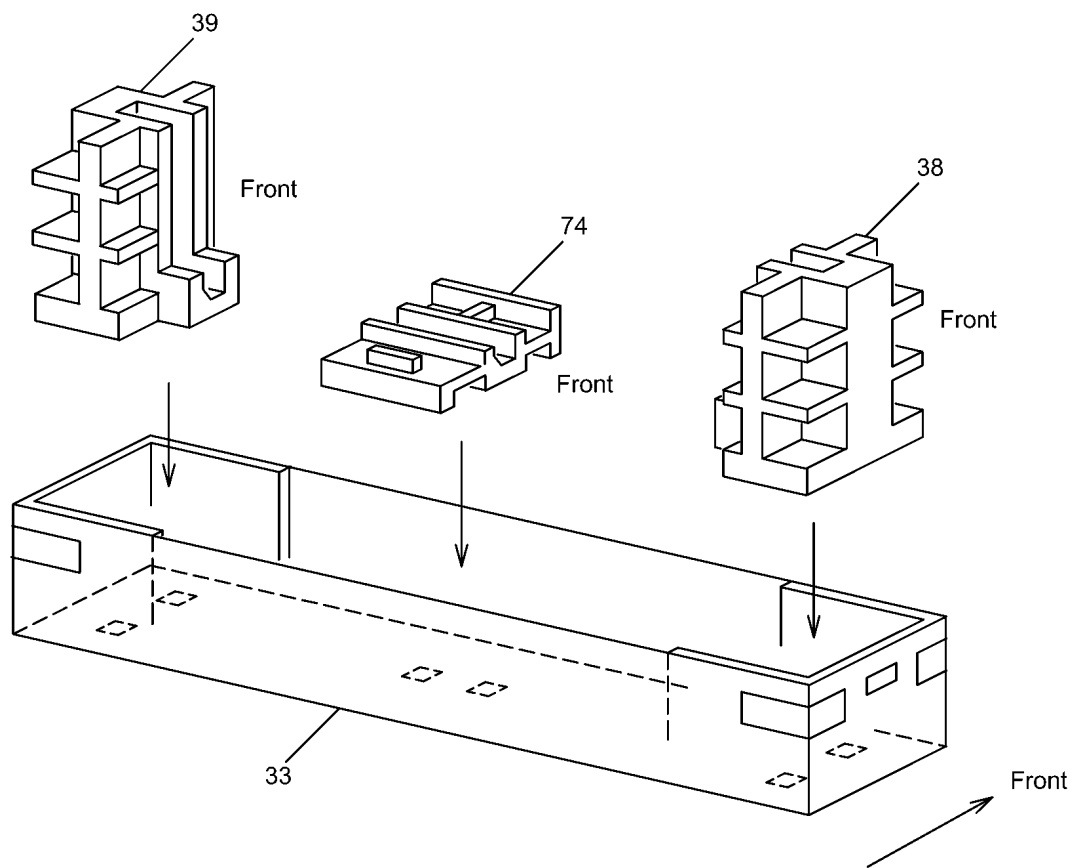


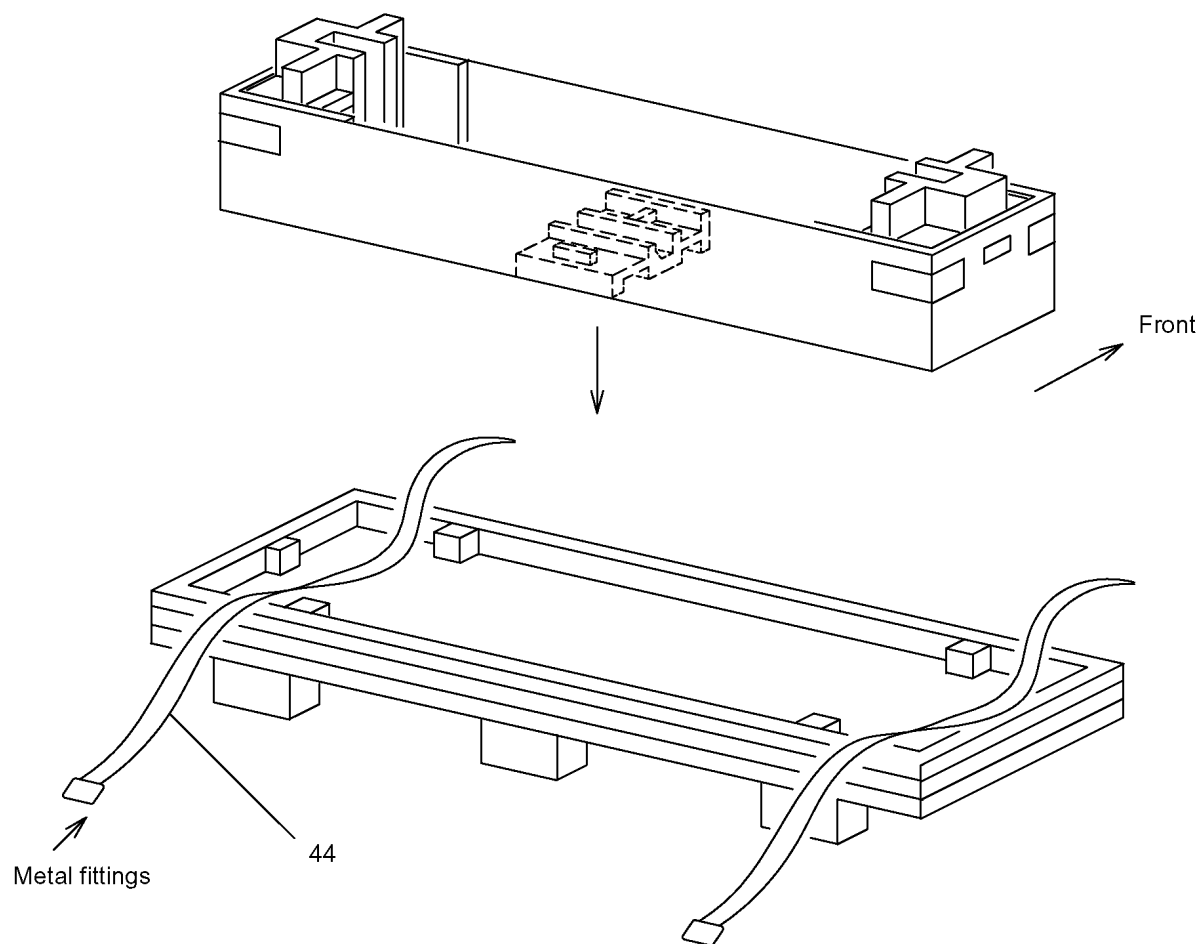
1.3. Board and Fuse

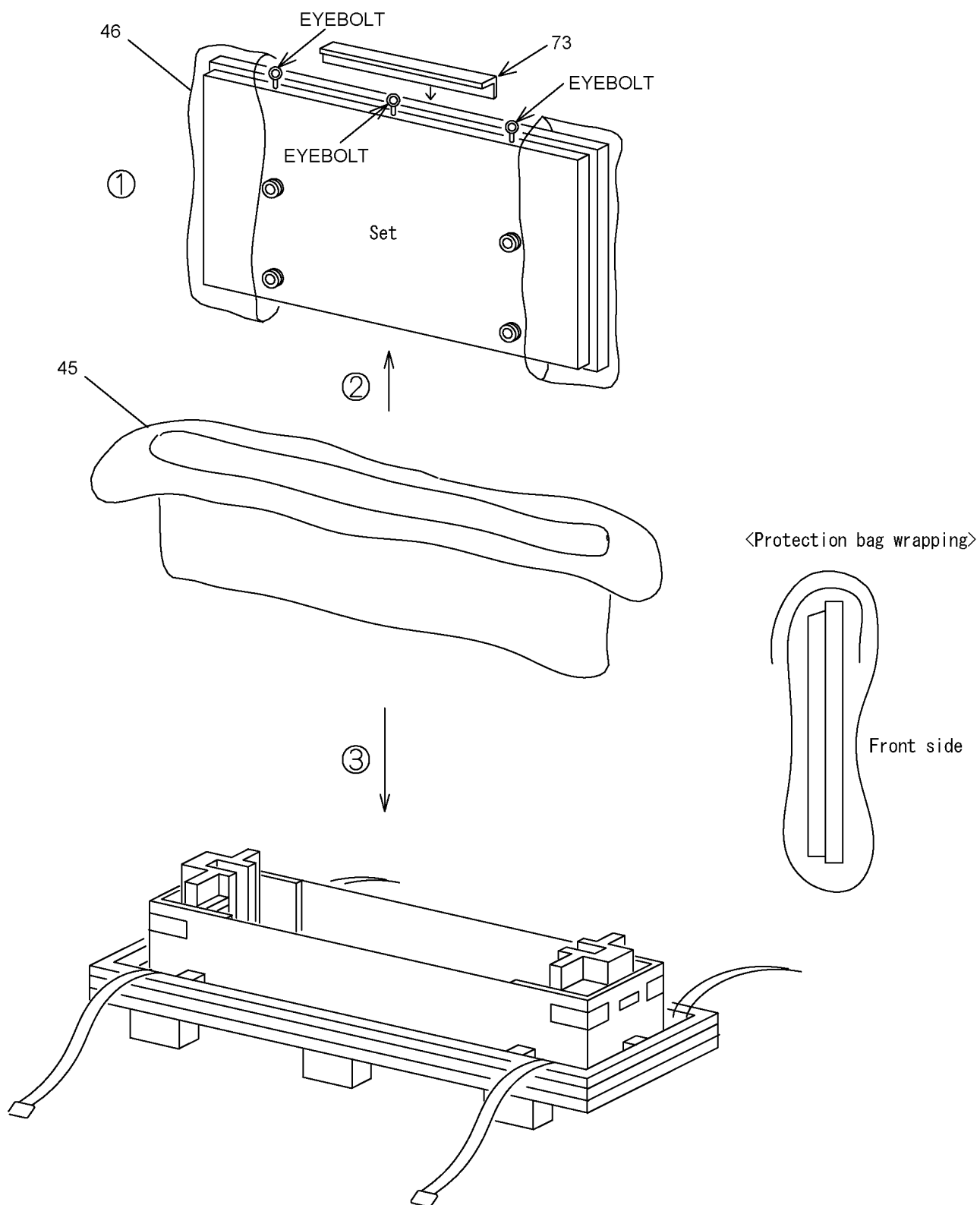


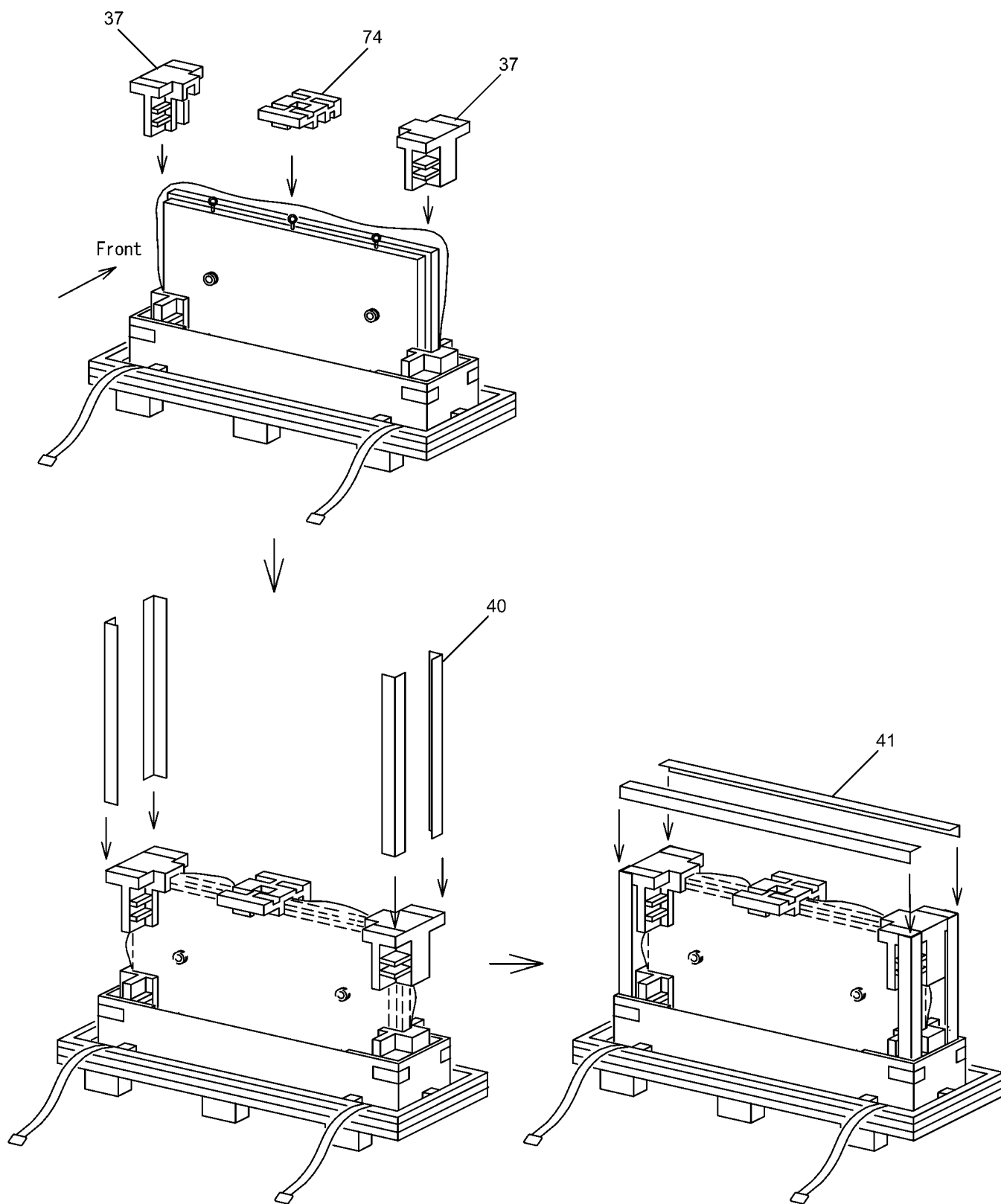
1.4. Packing summary

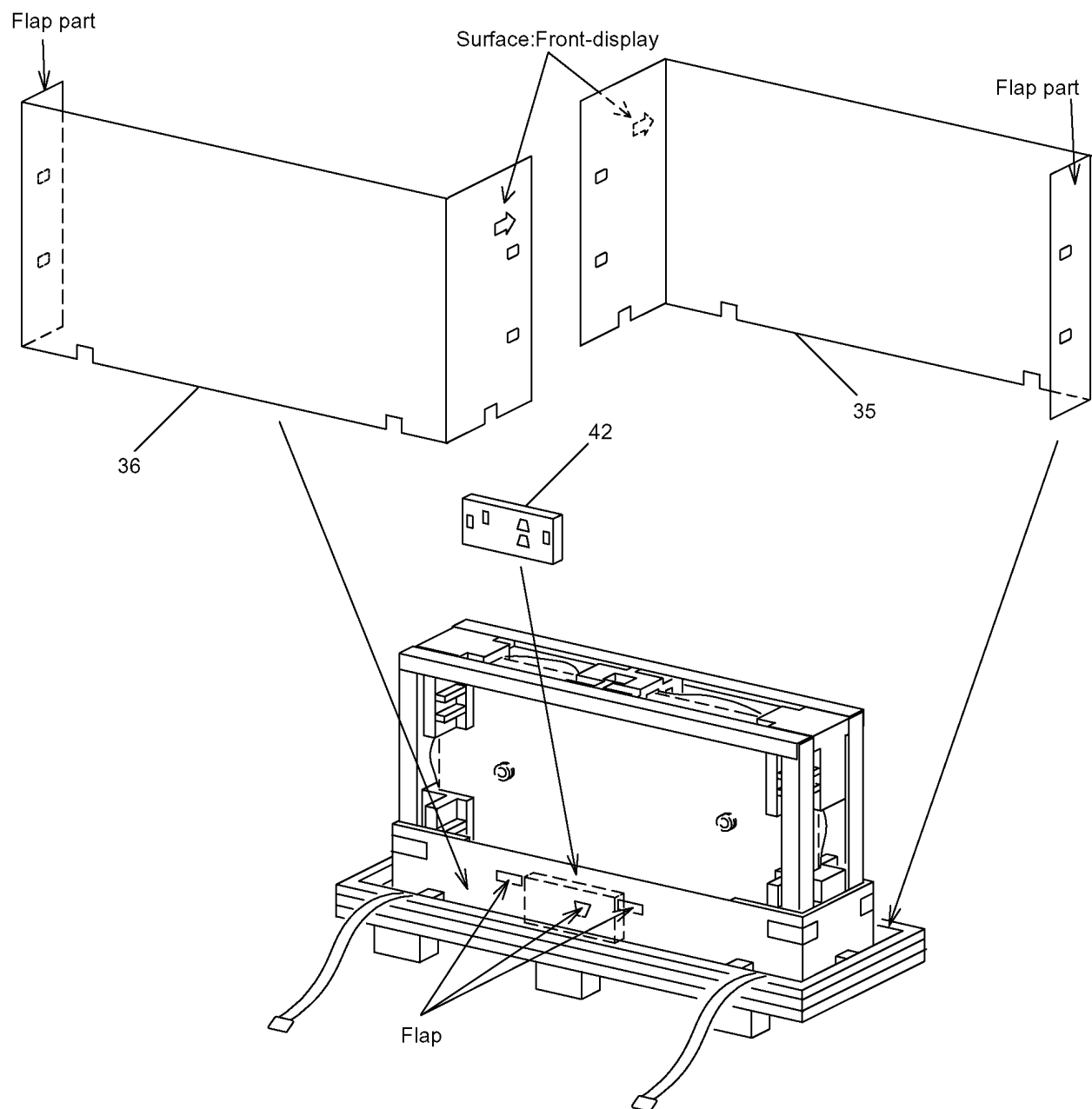


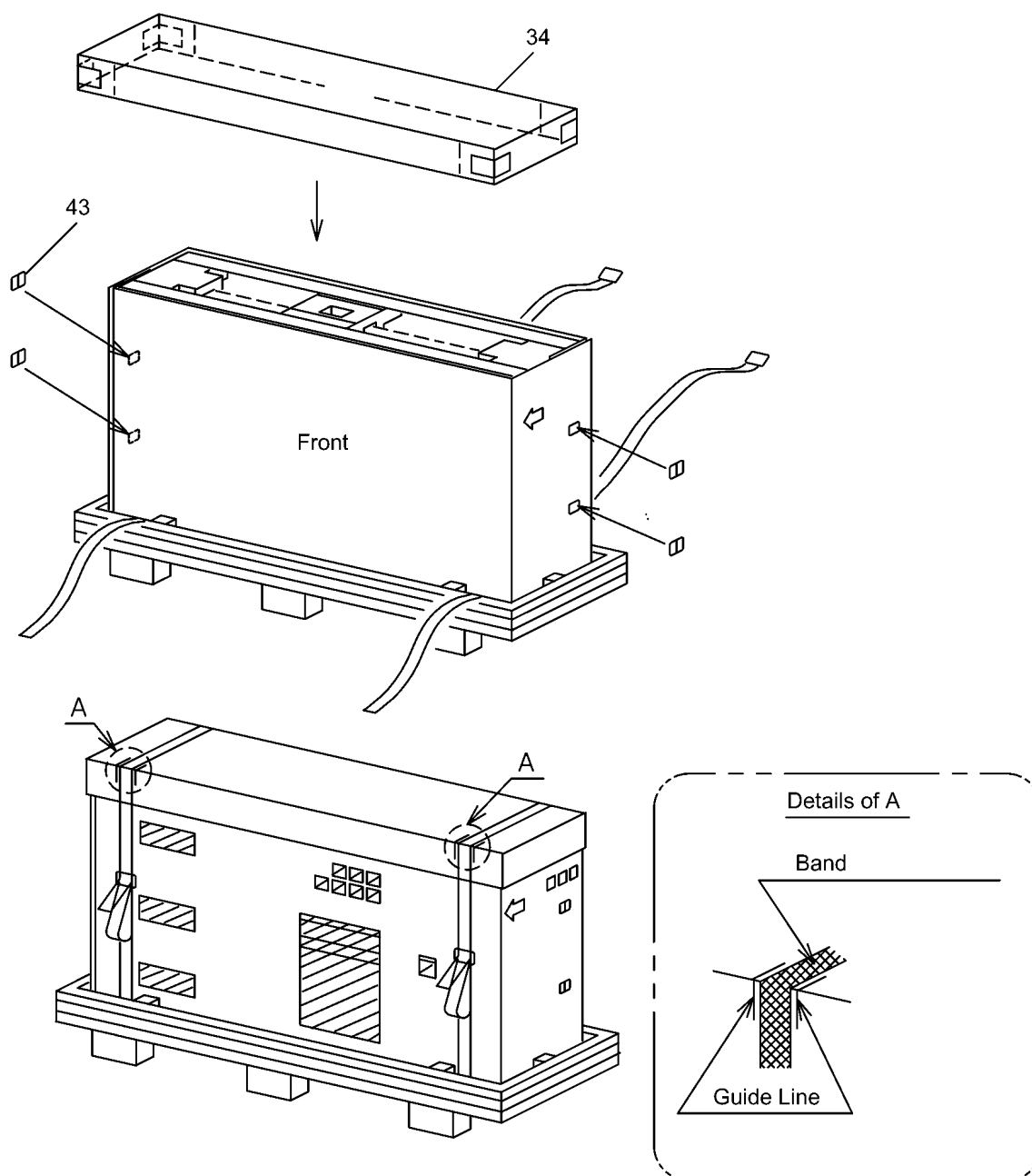




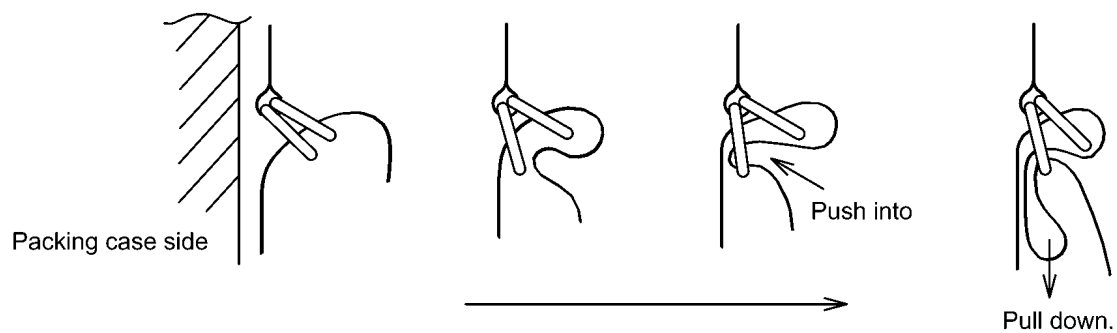








<Band tightening procedure>



2 Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EUR7636070R	REMOTE CONTROLLER	1	
	JOKD00000096	FERRITE CORE	3	
	K1LA23BA0003	BRIDGE CONNECTOR (SU-SM/SM-SD)	2	
2	JOKF00000021	NOISE FILTER	1	
3	K2AHYH000009	AC INLET	1	△
4	K2CK3YY00003	AC CORD (OBLIQUE FLAT BLADE)	1	△
4	K2CN3YY00003	AC CORD (ROUND PIN)	1	△
4	K2CT3YY00002	AC CORD (RECTANGULAR BLADE)	1	△
5	L6FAYYYH0030	FAN UNIT (80mm)	3	
6	L6FAYYYH0031	FAN UNIT (120mm)	8	
7	MD103F09A1J	PLASMA DISPLAY PANEL	1	△
8	TBMA209	PANASONIC BADGE	1	
9	TBXA46703A	5 RANGE BUTTON	1	
10	TBXA50001	POWER BUTTON	1	
11	TESA031	SPRING	2	
	THEA068N	SCREW	6	
12	THEA154J	M16 BOLT	4	
	THEL0239	SCREW	12	
	THEL027N	SCREW	29	
	THEL0429	SCREW	7	
	THTA0419	HOOK SCREW	8	
	THTD011J	SCREW	4	
	THTD013N	SCREW	28	
	THTF011N	SCREW	275	
13	TKEA16401	ESCUTCHEON TOP	1	
14	TKEA16501T	ESCUTCHEON BOTTOM	1	
15	TKEA16601	ESCUTCHEON LEFT/RIGHT	2	
16	TKGA5314T	FRONT GLASS	1	
17	TKKC5213	LED PANEL	1	
18	TKKL5266	COVER	1	
19	TKKL5370	EYEBOLT COVER	11	
20	TKKX0015	HEXAGONAL WRENCH	1	
21	TKPA60301	REMOCON RECEIVE PANEL	1	
22	TKUX11501	REAR COVER (CENTER/LEFT/U)	1	
23	TMKA580	ESCUTCHEON FELT LEFT/RIGHT	2	
24	TMKA581	ESCUTCHEON FELT TOP/BOTTOM	4	
25	TMKG405	SPONGE (FAN)	18	
26	TMKG469-1	SPONGE (FAN)	3	
27	TMKG732	SPONGE (LEFT/RIGHT)	2	
28	TMKG733	SPONGE (UPPER/LOWER)	4	
	TMM16473-1	CLAMPER	5	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	10	
	TMM6463-1	CLAMPER	10	
	TMM6496-1	CLAMPER	1	
	TMM7464-2	CLAMPER	5	
	TMM7468-1	CLAMPER	10	
	TMME047	CLAMPER	14	
	TMME061	CLAMPER	14	
	TMME088	CLAMPER	6	
	TMME152	CLAMPER	7	
	TMME185	CLAMPER	6	
29	TMME187	CLAMPER	4	
	TMME199	CLAMPER	4	
32	TMME226	AC CORD CLAMPER	1	
	TMME228	CLAMPER	6	
30	TMMJ068	RUBBER (FAN)	32	
31	TMWC016	P BUTTON BRACKET	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMXX035	AC CORD CLAMPER A	1	
33	TPCC04501	CARTON BOX BOTTOM	1	
34	TPCC04601	CARTON BOX TOP	1	
35	TPCC04704	CARTON SIDE A	1	△
36	TPCC04804	CARTON SIDE B	1	△
73	TPDA1038	PROTECTION PAD	4	
37	TPDA1416	TOP CUSHION	2	
38	TPDA1417-1	BOTTOM CUSHION LEFT	1	
39	TPDA1418-1	BOTTOM CUSHION RIGHT	1	
74	TPDA1419	CUSHION CENTER	2	
40	TPDF1744	L PAPER TUBE V	4	
41	TPDF1745	L PAPER TUBE H	2	
42	TPDF1746	PARTS BOX	1	
43	TPDX0007	JOINT	4	
	TPDX0027	BOTTOM SKID	1	
44	TPDX0028	BAND	5	
45	TPEH323	PROTECTION BAG	1	
46	TPEH324	FRONT PROTECTION COVER	2	
47	TQBC2133	INSTRUCTION BOOK (ENGLISH)	1	△
47	TQBC2134	INSTRUCTION BOOK (RUSSIAN)	1	△
47	TQBC2135	INSTRUCTION BOOK (UKRAINIA)	1	△
47	TQBC2136	INSTRUCTION BOOK (ARABIC)	1	△
48	TSXL518	CABLE (C11-C21/C23-C32/C31-C41/C42-C53/C51-C61/C71-C81/C83-C93/C91-CX1/CX2-CY3/CY1-CZ1)	10	
49	TSXL568	CABLE (D31-CD1)	1	
50	TSXL569	CABLE (C20-CD2)	1	
51	TSXL570	CABLE (D32-CD1)	1	
52	TSXL571	CABLE (C40-CD2)	2	
53	TSXL572	CABLE (D33-CD1)	1	
55	TSXL574	CABLE (D34-CD1)	1	
56	TSXL575	CABLE (C80-CD2)	1	
57	TSXL576	CABLE (D35-CD1)	1	
58	TSXL577	CABLE (C90-CD2)	1	
59	TSXL578	CABLE (D36-CD1)	1	
60	TSXL579	CABLE (CY0-CD2)	1	
61	TSXL584	CABLE (DN6-DS5)	1	
62	TSXL585	CABLE (DN1-DS1)	1	
63	TTUA1515	REAR COVER (SIDE/LEFT)	1	△
64	TTUA1518	REAR COVER (CENTER/LEFT/B)	1	△
65	TTUA1519	REAR COVER (CENTER/RIGHT/U)	1	△
66	TTUA1520	REAR COVER (CENTER/RIGHT/B)	1	△
67	TTUA1528	REAR COVER (SIDE/RIGHT)	1	△
68	TUXJ350	ESC (LEFT/TOP RIGHT/BOTTOM)	2	△
69	TUXJ351	ESC (LEFT/TOP RIGHT/BOTTOM)	2	△
70	TUXJ370	ESC (RIGHT/TOP LEFT/BOTTOM)	2	△
71	TUXJ371	ESC (RIGHT/TOP LEFT/BOTTOM)	2	△
	XTV3+10JFJ	SCREW	2	
	XTV3+10JFJ	SCREW	1	
	XTV3+8JFJK	SCREW (TUNER COVER)	1	
	XTW3+8TFJ	SCREW	2	
72	XVN16FJ	EYEBOLT	3	
75	XWB16BVJ	M16 SPRING WASHER	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
76	TUXK056	STAND HOOK	4	
	XYN3+F10FJ	SCREW	5	
	XYN3+F8FJ	SCREW	5	
	XYN3+J12FJ	SCREW	230	
	XYN3+J8FJ	SCREW ROHS	20	
	XYN4+E8FJ	SCREW	1	
	XYN4+F10FJK	SCREW	103	
	XYN4+F32FJ	SCREW	35	
	XYN4+J10FJ	SCREW	135	
	XYN5+F15FJ	SCREW	86	
	XYN5+F30FJK	BLACK SCREW	18	
	XYN8+F20FJK	SCREW	24	
	XZBT6506	POLY BAG	1	
F900.F901.F903.F904	K5D103BMA001	TIME LAG FUSE HIGH	4	△
F1601.1602	K5D103BMA001	TIME LAG FUSE HIGH	4	△
F1701.1702	K5D502BNA007	AC FUSE	4	△
81	ZTXMM641MG2	CIRCUIT BOARD P (SUS)	2	△
82	ZTXMM641MG1	CIRCUIT BOARD P (MULTI)	2	△
83	TNPA4018	CIRCUIT BOARD C1	1	△
84	TNPA4019	CIRCUIT BOARD C2	1	△
85	TNPA4020	CIRCUIT BOARD C3	1	△
86	TNPA4021	CIRCUIT BOARD C4	1	△
87	TNPA4022	CIRCUIT BOARD C5	1	△
88	TNPA4023	CIRCUIT BOARD C6	1	△
89	TNPA4024	CIRCUIT BOARD C7	1	△
90	TNPA4025	CIRCUIT BOARD C8	1	△
91	TNPA4026	CIRCUIT BOARD C9	1	△
92	TNPA4027	CIRCUIT BOARD CX	1	△
93	TNPA4028	CIRCUIT BOARD CY	1	△
94	TNPA4029	CIRCUIT BOARD CZ	1	△
95	TNPA4030	CIRCUIT BOARD SU	1	△
96	TNPA4031	CIRCUIT BOARD SM	1	△
97	TNPA4032	CIRCUIT BOARD SD	1	△
98	TNPA4033	CIRCUIT BOARD SC	1	△
99	TNPA4034	CIRCUIT BOARD SC2	1	△
100	TNPA4035	CIRCUIT BOARD SS	1	△
101	TNPA4036	CIRCUIT BOARD SS2	1	△
102	TNPA4037	CIRCUIT BOARD SS3	1	△
103	TNPA4039	CIRCUIT BOARD DR1	2	△
104	TNPA4040	CIRCUIT BOARD CD	6	△
105	TNPA4041	CIRCUIT BOARD PC	1	△
106	TNPA4052	CIRCUIT BOARD HDD	1	△
107	TNPA4055	CIRCUIT BOARD F	1	△
108	TNPA4058	CIRCUIT BOARD H5	1	△
109	TNPA4084	CIRCUIT BOARD S1	1	△
110	TNPA4085	CIRCUIT BOARD V1	1	△
111	TNPA4086	CIRCUIT BOARD V2	1	△
112	TNPA4087	CIRCUIT BOARD V3	1	△
113	TNPA4100	CIRCUIT BOARD DR2	2	△
114	TNPA4103	CIRCUIT BOARD PB	1	△
115	TNPA4217	CIRCUIT BOARD DS	1	△
116	TXNHA10RBS	CIRCUIT BOARD HA	1	△
117	TZTNP01YLTU	CIRCUIT BOARD DN	1	△
118	TZTNP01YLTU	CIRCUIT BOARD HX	1	△
119	TZTNP02YLTJ	CIRCUIT BOARD D	1	△