

WM-FX223/FX227/FX229

SERVICE MANUAL

US Model
WM-FX227/FX229
AEP Model
WM-FX223/FX227

- WM-FX223, FX227 and FX229 are similar to WM-FX221 (US, AEP Model).
Refer to the service manual of WM-FX221 with regard to the contents not mentioned in this manual.

☛ : Indicates difference portion

GENERAL

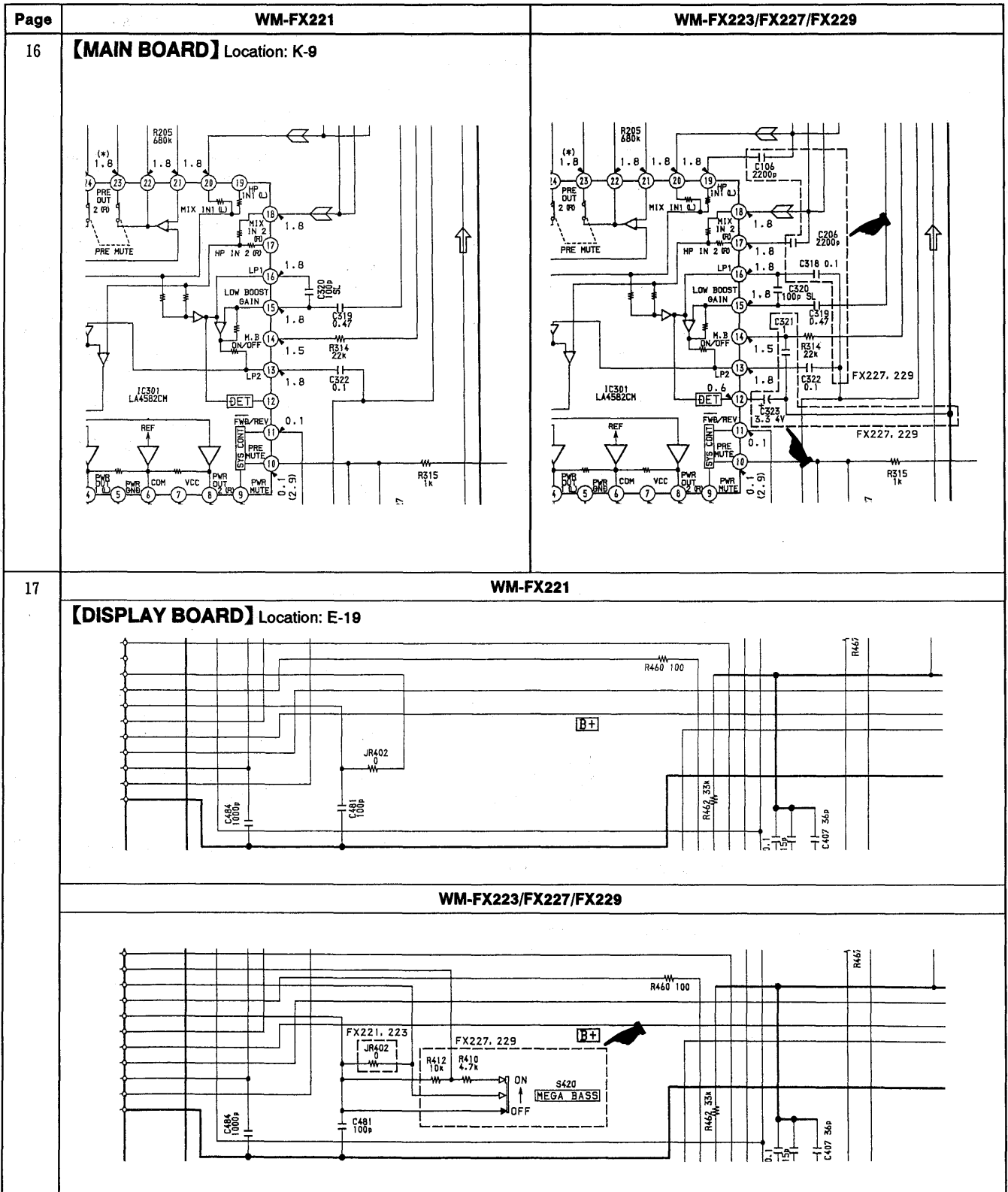
Page	WM-FX221	WM-FX223/FX227/FX229
3	NOT USED	☛ [20] MEGA BASS switch (FX227/FX229 model)

RADIO CASSETTE PLAYER
SONY®

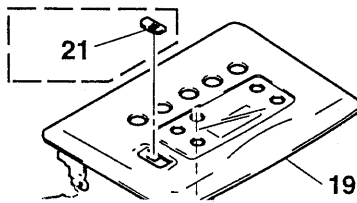
 : Indicates difference portion
PRINTED WIRING BOARD

Page	WM-FX221	WM-FX223/FX227/FX229
13	<p>[DISPLAY BOARD] Location: C-9</p> <p>[DISPLAY BOARD] (SIDE B)</p>	<p>[DISPLAY BOARD] (SIDE B)</p>
14	<p>[MAIN BOARD] Location: H-16</p>	

 : Indicates difference portion
SCHEMATIC DIAGRAM



WM-FX223/FX227/FX229 DIFFERENCE TABLE

Page	WM-FX221 (US, AEP model)				WM-FX223/FX227/FX229 (US, AEP model)			
	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
20	10	A-3016-702-A	MAIN BOARD, COMPLETE (AEP)		10	A-3016-840-A	MAIN BOARD, COMPLETE (FX223)	
					10	A-3016-846-A	MAIN BOARD, COMPLETE (FX227:AEP)	
	10	A-3016-704-A	MAIN BOARD, COMPLETE (US)		10	A-3016-841-A	MAIN BOARD, COMPLETE (FX229)	
					10	A-3016-842-A	MAIN BOARD, COMPLETE (FX227:US)	
	12	3-922-636-41	CABINET (FRONT) (50) (US)		12	3-922-636-91	CABINET (FRONT) (50) (FX227:US/FX229)	
	12	3-922-636-51	CABINET (FRONT) (50) (AEP)		12	3-922-636-81	CABINET (FRONT) (50) (FX223/FX227:AEP)	
	13	3-922-635-01	COVER (50), HOLDER		13	3-922-622-01	COVER (51), HOLDER (FX227/FX229)	
	14	A-3016-768-A	DISPLAY BOARD, COMPLETE (US)		14	A-3016-772-A	DISPLAY BOARD, COMPLETE (FX227:US/FX229)	
	14	A-3016-769-A	DISPLAY BOARD, COMPLETE (AEP)		14	A-3016-773-A	DISPLAY BOARD, COMPLETE (FX227:AEP)	
	18	3-922-634-01	BUTTON (50), RUBBER		18	3-922-621-01	BUTTON (51), RUBBER (FX227/FX229)	
	19	3-922-633-11	HOLDER (50), CASSETTE		19	3-922-633-31	HOLDER (50), CASSETTE (FX223)	
					19	3-934-780-41	HOLDER (51), CASSETTE (FX227)	
					19	3-934-780-51	HOLDER (51), CASSETTE (FX229)	
	21	Not used			21	3-922-620-11	KNOB (MB) (2) (FX227/FX229)	
						(FX227/FX229 only)		
								
25		3-810-567-11	MANUAL, INSTRUCTION (FX221:US) (ENGLISH, FRENCH)			3-810-953-11	MANUAL, INSTRUCTION (FX227:US/FX229)	
		3-810-567-31	MANUAL, INSTRUCTION (FX221:AEP) (ENGLISH, FRENCH, GERMAN, SPANISH)			3-810-567-81	MANUAL, INSTRUCTION (FX223/FX227:AEP) (ENGLISH, FRENCH, GERMAN, SPANISH)	
		3-810-567-41	MANUAL, INSTRUCTION (FX221:AEP) (DUTCH, SWEDISH, ITALIAN, PORTUGUESE)			3-810-567-91	MANUAL, INSTRUCTION (FX223/FX227:AEP) (DUTCH, SWEDISH, ITALIAN, PORTUGUESE)	
	*	3-910-312-01	CUSHION (FX221:AEP)			Not used		
	*	3-932-250-01	INDIVIDUAL CARTON (FX221:AEP)			Not used		
		8-953-130-90	HEADPHONE MDR-E801//K SET (FX221:AEP)			Not used		

ELECTRICAL PARTS LIST

Page, Location	WM-FX221 (US, AEP model)				WM-FX223/FX227/FX229 (US, AEP model)			
	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
22		A-3016-768-A	DISPLAY BOARD, COMPLETE (US)			A-3016-769-A	DISPLAY BOARD, COMPLETE (FX223)	
		A-3016-769-A	DISPLAY BOARD, COMPLETE (AEP)			A-3016-772-A	DISPLAY BOARD, COMPLETE (FX227:US/FX229)	
						A-3016-773-A	DISPLAY BOARD, COMPLETE (FX227:AEP)	
D-18	JR402	1-216-295-91	CONDUCTOR, CHIP(2012)		JR402	Not used	(FX227/FX229)	
—	R410	Not used			R410	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (FX227/FX229)	
—	R412	Not used			R412	1-216-073-00	METAL CHIP 10K 5% 1/10W (FX227/FX229)	
—	S420	Not used			S420	1-692-605-11	SWITCH, SLIDE (MEGA BASS) (FX227/FX229)	
23		A-3016-704-A	MAIN BOARD, COMPLETE (US)			A-3016-840-A	MAIN BOARD, COMPLETE (FX223)	
		A-3016-702-A	MAIN BOARD, COMPLETE (AEP)			A-3016-842-A	MAIN BOARD, COMPLETE (FX227:US)	
						A-3016-846-A	MAIN BOARD, COMPLETE (FX227:AEP)	
						A-3016-841-A	MAIN BOARD, COMPLETE (FX229)	
D-6	C12	1-162-953-11	CERAMIC CHIP 100PF 5% 50V(US)		C12	1-162-953-11	CERAMIC CHIP 100PF 5% 50V (FX227/FX229)	
	C12	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V(AEP)		C12	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V (FX223)	
E-9	C32	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V(US)		C32	1-164-245-11	CERAMIC CHIP 0.015uF 10% 25V (FX227:US/FX229)	
	C32	1-164-245-11	CERAMIC CHIP 0.015uF 10% 25V(AEP)		C32	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V (FX223:AEP)	
E-9	C33	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V(US)		C33	1-164-245-11	CERAMIC CHIP 0.015uF 10% 25V (FX227:US/FX229)	
	C33	1-164-245-11	CERAMIC CHIP 0.015uF 10% 25V(AEP)		C33	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V (FX223:AEP)	
G-5	C40	1-162-966-11	CERAMIC CHIP 2200PF 10% 50V		C40	1-162-953-11	CERAMIC CHIP 100PF 5% 50V (FX223)	
					C40	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V (FX227:AEP)	
—	C106	Not used			C106	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V (FX227/FX229)	
L-5	C107	1-164-346-11	CERAMIC CHIP 1uF 16V		C107	1-164-234-11	CERAMIC CHIP 1uF 10V	
J-9	C199	1-164-346-11	CERAMIC CHIP 1uF 16V		C199	1-164-234-11	CERAMIC CHIP 1uF 10V	
—	C206	Not used			C206	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V (FX227/FX229)	
L-5	C207	1-164-346-11	CERAMIC CHIP 1uF 16V		C207	1-164-234-11	CERAMIC CHIP 1uF 10V	
J-9	C299	1-164-346-11	CERAMIC CHIP 1uF 16V		C299	1-164-234-11	CERAMIC CHIP 1uF 10V	

Page, Location	WM-FX221 (US, AEP mode)				WM-FX223/FX227/FX229 (US, AEP mode)			
	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
23								
M-19	C301	1-164-346-11	CERAMIC CHIP 1uF	16V	C301	1-164-234-11	CERAMIC CHIP 1uF	10V
I-2	C311	1-164-346-11	CERAMIC CHIP 1uF	16V	C311	1-164-234-11	CERAMIC CHIP 1uF	10V
N-5	C316	1-164-346-11	CERAMIC CHIP 1uF	16V	C316	1-164-234-11	CERAMIC CHIP 1uF	10V
—	C318	Not used			C318	1-107-826-11	CERAMIC CHIP 0.1uF	10V (FX227/FX229)
K-9	C319	1-164-005-11	CERAMIC CHIP 0.47uF	25V	C319	1-164-234-11	CERAMIC CHIP 1uF	10V (FX227:AEP)
—	C321	Not used			C321	1-164-234-11	CERAMIC CHIP 1uF	10V (FX227/FX229)
—	C323	Not used			C323	1-135-180-21	TANTALUM CHIP 3.3uF	20% 6.3V (FX227/FX229)
24								
C-7	JR4	1-216-295-91	CONDUCTOR, CHIP(2012) (AEP)		JR4	Not used	(FX227:US/FX229)	
G-4	JR12	1-216-864-11	CONDUCTOR, CHIP(1608)		JR12	Not used	(FX223/FX227:AEP)	
G-3	Q4	8-729-016-74	TRANSISTOR DTC115GK-T146 (US)		Q4	Not used	(FX223/FX227:AEP)	
P-12	Q307	8-729-403-17	TRANSISTOR XN1215 (US)		Q307	8-729-403-17	TRANSISTOR XN1215 (FX223/FX227)	
	Q307	8-729-022-66	TRANSISTOR XN1210-TX (AEP)		Q307	8-729-022-66	TRANSISTOR XN1210-TX (FX229)	
F-9	R14	1-216-839-11	METAL CHIP 33K 5% 1/16W (US)		R14	1-216-839-11	METAL CHIP 33K 5% 1/16W	
	R14	1-216-837-11	METAL CHIP 22K 5% 1/16W (AEP)					
F-9	R15	1-216-839-11	METAL CHIP 33K 5% 1/16W (US)		R15	1-216-839-11	METAL CHIP 33K 5% 1/16W	
	R15	1-216-837-11	METAL CHIP 22K 5% 1/16W (AEP)					
C-7	R21	1-216-815-11	METAL CHIP 330 5% 1/16W (AEP)		R21	Not used	(FX227:US/FX229)	
H-4	R22	1-216-821-11	METAL CHIP 1K 5% 1/16W (US)		R22	Not used	(FX223/FX227:AEP)	
N-7	R107	1-216-864-11	METAL CHIP 0 5% 1/16W (US)		R107	1-216-864-11	METAL CHIP 0 5% 1/16W	(FX223/FX227)
	R107	1-216-796-11	METAL GLAZE 8.2 5% 1/16W (AEP)		R107	1-216-796-11	METAL GLAZE 8.2 5% 1/16W (FX229)	
N-7	R108	1-216-850-11	METAL CHIP 270K 5% 1/16W (US)		R108	1-216-850-11	METAL CHIP 270K 5% 1/16W	(FX223/FX227)
	R108	1-216-839-11	METAL CHIP 33K 5% 1/16W (AEP)		R108	1-216-847-11	METAL CHIP 150K 5% 1/16W (FX229)	
25								
N-7	R207	1-216-295-91	CONDUCTOR, CHIP(2012) (US)		R207	1-216-295-91	CONDUCTOR, CHIP(2012) (FX223/FX227)	
	R207	1-216-313-00	METAL CHIP 8.2 5% 1/10W (AEP)		R207	1-216-313-00	METAL CHIP 8.2 5% 1/10W (FX229)	
N-7	R208	1-216-850-11	METAL CHIP 270K 5% 1/16W (US)		R208	1-216-850-11	METAL CHIP 270K 5% 1/16W	(FX223/FX227)
	R208	1-216-839-11	METAL CHIP 33K 5% 1/16W (AEP)		R208	1-216-847-11	METAL CHIP 150K 5% 1/16W (FX229)	
P-11	R330	1-216-801-11	METAL CHIP 22 5% 1/16W (US)		R330	1-216-801-11	METAL CHIP 22 5% 1/16W	(FX223/FX227)
	R330	1-216-811-11	METAL CHIP 150 5% 1/16W (AEP)		R330	1-216-815-11	METAL CHIP 330 5% 1/16W (FX229)	