

SHARP SERVICE MANUAL

No. S8872CDC407W/

These new models CD-C407W,CP-C407 have almost the same structure as the former models CD-C401W,CP-C402 except for some outer parts, and so only these parts are here described. When servicing the CD-C407W,CP-C407, please refer to the already issued service manual for CD-C401W,CP-C402(S7751CDC401W/) as well as this service manual.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CD-C407W CP-C407

CD-C407W and CP-C407 constitute CD-C407W.

DIFFERENCE BETWEEN CD-C401W AND CD-C407W

SECTION	CD-C401W	CD-C407W
Power consumption	80w	41w
Dimensions	Depth; 332.5 mm (13-1/8")	Depth; 13-3/4" (348 mm)
Weight	4.2 kg (9.2 lbs.)	4.3 kg (9.5 lbs.)

REF. NO.	PART NO. ★	PART NO. ★	DESCRIPTION	CODE
	CD-C401W	CD-C407W		
INTEGRATED CIRCUIT				
IC701	RH-iX0182AWZZ J	RH-iX0217AWZZ J	System Microcomputer, IX0217AW	AX
TRANSISTOR				
Q351	VSKTC3199GR-1 J	Not Used	Digital, NPN, KTC3199 GR	—
DIODES				
D4,5	VHD1SS119/-1 J	Not Used	Silicon, 1SS119	—
D203,204	VHD1SS119/-1 J	Not Used	Silicon, 1SS119	—
D331,332	VHD1SS119/-1 J	Not Used	Silicon, 1SS119	—
D602,603	VHD1SS119/-1 J	Not Used	Silicon, 1SS119	—
VD301,302	VHCKDV147C/-1 J	VHCSVC211C/-1 J	Silicon, SVC321C, Variable Cap	AG
VD331	VHCKV1236Z23F J	Not Used	Variable Capacitance, KV1236Z23F	—
VD331A,B	Not Used	VHCSVC321C2-1 J	Silicon, SVC211C, Variable Cap	AG
ZD381	VHEUZ5R1BSB-1 J	VHEMTZJ5R1B-1 J	Zener, 5.1V, MTZJ5.1B	AC
ZD701	VHEUZ3R3BSB-1 J	VHEMTZJ3R3B-1 J	Zener, 3.3V, MTZJ3.3B	AA
VIBRATOR				
XL1	RCRM-0008AWZZ J	92LCRSTL1746A J	Ceramic, 16.93MHZ	
CAPACITORS				
C2	RC-GZA476AF1A J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C19	RC-GZA476AF1A J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C45	RC-GZA475AF1E J	VCEAZA1HW475M J	4.7 μF, 50V, Electrolytic	AB
C67,68	RC-GZA106AF1C J	VCEAZA1HW106M J	10 μF, 50V, Electrolytic	AB
C91	RC-GZA476AF1C J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C214,215	RC-GZA476AF1A J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C224	RC-GZA335AF1E J	VCEAZA1HW335M J	3.3 μF, 50V, Electrolytic	AB
C244	RC-GZA476AF1C J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C246	RC-GZA476AF1C J	VCEAZA1EW476M J	47 μF, 25V, Electrolytic	AB
C265	RC-GZA475AF1E J	VCEAZA1HW475M J	4.7 μF, 50V, Electrolytic	AB
C302	VCCUMN1HJ6R8D J	VCCSMN1HL6R8K J	6.8 pF, 50V	AA
C314	VCCUMN1HJ6R8D J	VCCUMN1HJ4R7D J	4.7 pF (UJ), 50V	AA
C323	VCCSMN1HL330J J	VCCSMN1HL180J J	18 pF, 50V	AA
C328	RC-GZA106AF1C J	VCEAZA1HW106M J	10 μF, 50V, Electrolytic	AB
C336	VCCUMN1HJ180J J	VCCUMN1HJ220J J	22 pF (UJ), 50V	AA
C344	VCCUMN1HJ8R2D J	VCCUMN1HJ180J J	18 pF (UJ), 50V	AA
C353	RC-GZA106AF1C J	VCEAZA1HW106M J	10 μF, 50V, Electrolytic	AB

★ MARK: SPARE PARTS-DELIVERY SECTION

CD-C407W,CP-C407

REF. NO.	PART NO.	★	PART NO.	★	DESCRIPTION	CODE
	CD-C401W		CD-C407W			
CAPACITORS						
C359,360	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 μF, 50V, Electrolytic	AB
C362	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 μF, 50V, Electrolytic	AB
C384	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 μF, 25V, Electrolytic	AB
C465~468	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 μF, 50V, Electrolytic	AB
C706	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 μF, 50V, Electrolytic	AB
C712	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 μF, 25V, Electrolytic	AB
C713	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 μF, 50V, Electrolytic	AB
C904,905	RC-QZA224AFYJ	J	VCFYHA1HA224J	J	0.22 μF, 50V, Thin Film	AC
C923	RC-QZ0026AWZZ	J	VCQYKA1HM473K	J	0.047 μF, 50V, Mylar	AB
C926,927	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 μF, 25V, Electrolytic	AB
RESISTORS						
R93	VRD-ST2EE4R7J	J	Not Used		4.7 ohms, 1/4W	—
R94	Not Used		VRD-ST2EE560J	J	56 ohms, 1/4W	AA
R355	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
R356	VRD-MN2BD473J	J	Not Used		47 kohms, 1/8W	—
R391	VRD-ST2CD472J	J	VRD-ST2CD473J	J	47 kohms, 1/6W	AA
R398	VRD-ST2CD472J	J	Not Used		4.7 kohms, 1/6W	—
R709,710	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
R713	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
△ R766	VRD-RT2HD100J	J	VRG-ST2EC100J	J	10 ohm, 1/4W, Fusible	AB
OTHER CIRCUITRY PARTS						
CNP902	QCNCM036EAWZZ	J	QCNCM042EAWZZ	J	Plug, 5Pin	AB
CNS201	QCNCWN0919AWZZ	J	QCNCWN0634AWZZ	J	Connector Ass'y, 3Pin	AK
CNS202	QCNCWN0920AWZZ	J	QCNCWN0635AWZZ	J	Connector Ass'y, 7Pin	AQ
SW4	QSW-F9001AWZZ	J	QSW-F9001AW01	J	Switch, Push Type [Pickup In]	AD
SW608	QSW-F0346AFZZ	J	92LM-SW1658A	J	Switch, Leaf Type [Tape 1 Play]	AB
SW701	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Power]	AD
SW702	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Volume Up]	AD
SW703	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Volume Down]	AD
SW704	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Play]	AD
SW705	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Fast Forward]	AD
SW706	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Rewind]	AD
SW707	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Open/Close]	AD
SW708	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Stop]	AD
SW709	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Disc Skip]	AD
SW710	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [X-BASS]	AD
SW711	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Function Selector]	AD
SW712	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Band Selector]	AD
SW713	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Clock/Timer]	AD
SW714	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Memory]	AD
SW715	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Tuning Up]	AD
SW716	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Tuning Down]	AD
CABINET PARTS						
201	92LCAB2450AS1	J	92LCAB2792AS1	J	Front Panel Ass'y	AV
201-1	—		—		Front Panel (Not Replacement Item)	—
201-2	HDECQ0248AWSA	J	HDECQ0360AWSA	J	Panel, Display	AG
201-3	Not Used		GCōVA1204AWSA	J	Cover, Remote Sensor	AD
202	GiTAR0250AWSA	J	GiTAR0346AWSA	J	Back Board [Except for Thailand]	AH
202	GiTAR0251AWSA	J	GiTAR0347AWSA	J	Back Board [For Thailand]	AH
206	GCōVA1148AWSA	J	GCōVA1211AWSA	J	Cover, CD Tray	AH
209	JBTN-0106AWSA	J	JBTN-0117AWSA	J	Button, Record [Tape 1]	AD
210	JBTN-0104AWSA	J	JBTN-0118AWSA	J	Button, Play [Tape 1]	AD
211	JBTN-0107AWSA	J	JBTN-0119AWSA	J	Button, Rewing [Tape 1]	AD
212	JBTN-0103AWSA	J	JBTN-0120AWSA	J	Button, Fast Forward [Tape 1]	AD
213	JBTN-0108AWSA	J	JBTN-0121AWSA	J	Button, Stop [Tape 1]	AD
214	JBTN-0105AWSA	J	JBTN-0122AWSA	J	Button, Play [Tape 2]	AD
217	JBTN-0109AWSA	J	JBTN-0123AWSA	J	Button, Stop [Tape 2]	AD
227	PCUSG0027AWZZ	J	Not Used		Worm Wheel Cushion	—
236	MSPRC0021AWFJ	J	Not Used		Spring, Worm Wheel	—
248	92LMEC2448CTS1	J	92LCōV2790CTS1	J	Cassette Cover Ass'y, Tape1	AM
248-1	—		—		Cassette Cover, Tape1 (Not Replacement Item)	—
248-2	HDECQ0206AWSA	J	HDECQ0352AWSA	J	Panel, Cassette, Tape1	AD

★ MARK: SPARE PARTS-DELIVERY SECTION

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO. ★		PART NO. ★		DESCRIPTION	CODE
	CD-C401W		CD-C407W			
CABINET PARTS						
249	92LMEC2448CTS2	J	92LC0V2790CTS2	J	Cassette Cover Ass'y, Tape2	AM
249-1					Cassette Cover,Tape2(Not Replacement Item)	—
249-2	HDECQ0207AWSA	J	HDECQ0353AWSA	J	Panel,Cassette,Tape2	AD
251	HDECQ0208AWSA	J	JKNBZ0528AWSA	J	Knob, Stop	AF
252	JKNBZ0378AWSA	J	JKNBZ0527AWSA	J	Knob, Function	AG
253	JKNBZ0380AWSA	J	JKNBZ0524AWSA	J	Knob, Volume	AF
254	JKNBZ0381AWSA	J	JKNBZ0525AWSA	J	Knob, X-BASS	AE
255	JKNBZ0406AWSA	J	JKNBZ0536AWSA	J	Knob, Power	AG
258	TLABS0138AWZZ	J	TLABS0159AWZZ	J	Label, CPA	
259	TSPC-0464AWZZ	J	TSPC-0501AWZZ	J	Label, Specifications [For Thailand]	AD
259	TSPC-0469AWZZ	J	TSPC-0502AWZZ	J	Label, Specifications [For Taiwan]	AC
260	TCAUS0014AWZZ	J	TCAUS0040AWZZ	J	Label, Warning [For Taiwan]	AB
267	Not Used		XWHJZ62-09510	J	Washer, ø 6.2 x ø 10 x 0.9 mm	AB
268	Not Used		LANGF0032AWZZ	J	Support, T/T Lock Lever	AC
269	Not Used		GD0RF0060AWSA	J	Cassette Holder, Tape 1	AF
270	Not Used		GD0RF0061AWSA	J	Cassette Holder, Tape 2	AF
271	Not Used		QLUGP0001AWZZ	J	Lug	AC
272	Not Used		PSPAI0014AWZZ	J	Spacer, Power Transformer	AD
603	XEBSD30P12000	J	XEBSD30P16000	J	Screw, ø3 x 16 mm	AA
604	XJBSD30P08000	J	Not Used		Screw, ø3 x 8 mm	—
613	XJBSF30P10000	J	Not Used		Screw, ø3 x 10 mm	—
ACCESSORIES/PACKING PARTS						
	QACCB0004AW00	J	QACCB0002AW00	J	AC Power Supply Cord [For Hong Kong]	AY
	QACCE0007AW00	J	QACCE0005AW00	J	AC Power Supply Cord [Except for Australia/ New Zealand/Hong Kong]	AM
	SPAKA0135AWZZ1	J	SPAKA0196AWZZ	J	Packing Add., Left/Right	AN
	SPAKC0554AWZZ	J	SPAKC0659AWZZ	J	Packing Case	AQ
	TCAUA0012AWZZ	J	Not Used		Caution Label, Operation Manual [For Taiwan Only]	—
	TiNST0031AWZZ	J	TiNST0038AWZZ	J	Operation Manual [For Thailand]	AF
	TiNSZ0240AWZZ	J	TiNSZ0315AWZZ	J	Operation Manual [Except for Australia/ New Zealand/Thailand]	AK
	TiNSZ0241AWZZ	J	TiNSZ0316AWZZ	J	Operation Manual [For Australia/New Zealand]	AD
	Not Used		TLSTS0011AWZZ	J	S/S List	AB
	Not Used		TLABG0002AWZZ	J	Label, Hong Kong	AB
	Not Used		TLABH0047AWSA	J	Sheet, E/C Comparison A [For Taiwan Only]	AH
	Not Used		TLABH0048AWSA	J	Sheet, E/C Comparison B [For Taiwan Only]	AH
	Not Used		TLABH0049AWSA	J	Sheet, E/C Comparison C [For Taiwan Only]	AH
	Not Used		TGANZ0022AW10	J	Warranty Card [For Taiwan Only]	
	Not Used		TMAPC0114AWZZ	J	Schematic Diagram	AC
	Not Used		92LGCARD1266E1	J	Warranty Card [For Australia/New Zealand]	AC

DIFFERENCE BETWEEN CP-C402 AND CP-C407

SECTION	CP-C402	CP-C407
Type	10 cm (4") full range speaker	2-way type [4" (10 cm) woofer and super tweeter]
Dimensions	Width; 170 mm (6-11/16") Height; 280 mm (11") Depth; 151 mm (5-15/16")	Width; 6-11/16" (170 mm) Height; 11-1/16" (280 mm) Depth; 5-15/16" (151 mm)
Weight	1.4 kg (3.1 lbs.)/each	3.1 lbs. (1.4 kg)/each

REF. NO.	PART NO. ★	PART NO. ★	DESCRIPTION	CODE
	CP-C402	CP-C407		
SPEAKER BOX PARTS				
701	92L121-0099 J	92L121-0151 J	Net Frame Ass'y	AU
702	92L051-0034 J	92L051-0064 J	Speaker Box Ass'y	AS
706	92L351-0170 J	92L351-0318 J	Label, Specifications	
SP3,4	Not Used	92L124-0016 J	Super Tweeter Ass'y	AK
ACCESSORIES/PACKING PARTS				
	92L412-0072 J	92L412-0121 J	Packing Add., Speaker (Top/Bottom)	
	92L353-0056 J	92L353-0080 J	Feature Label	

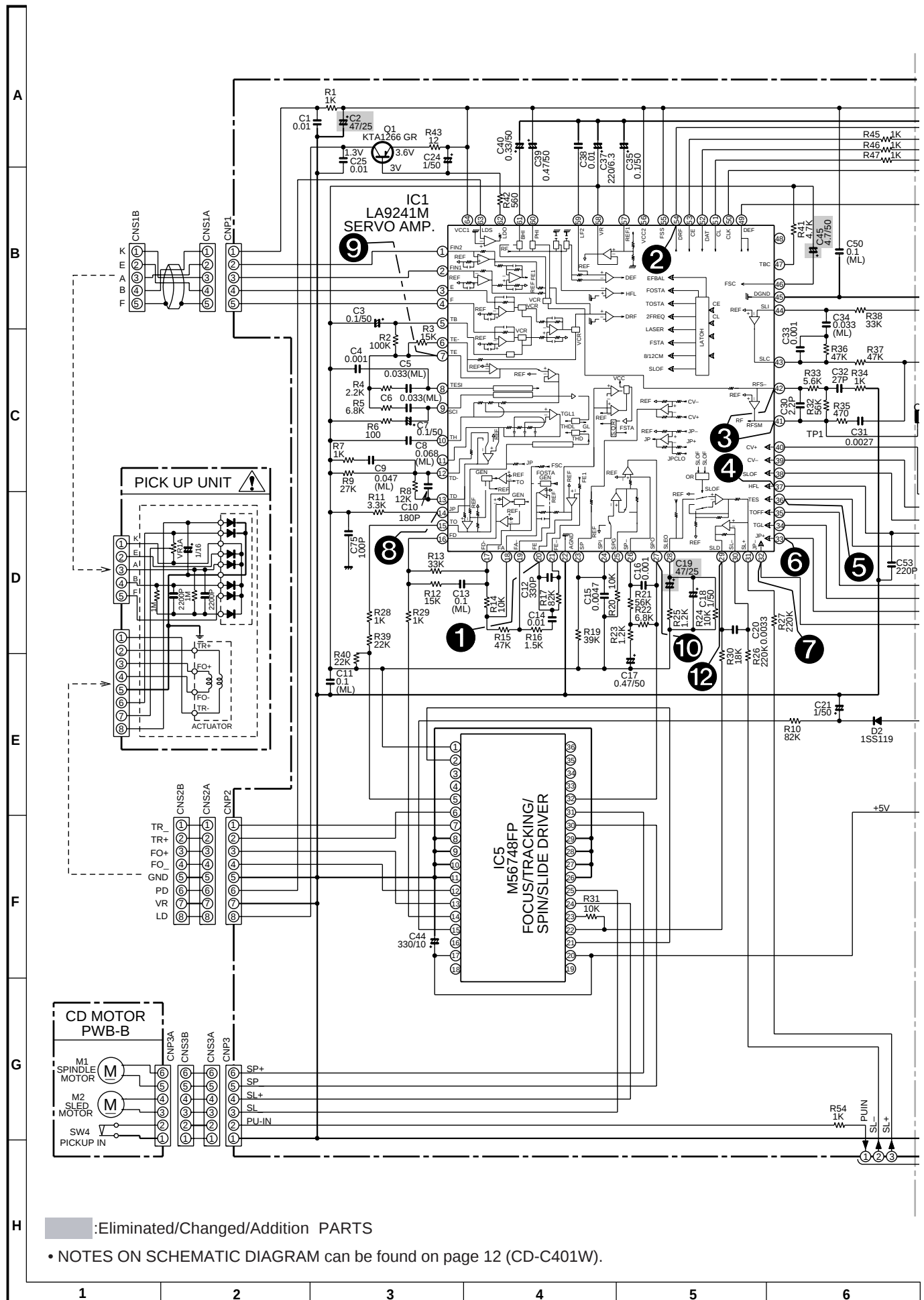
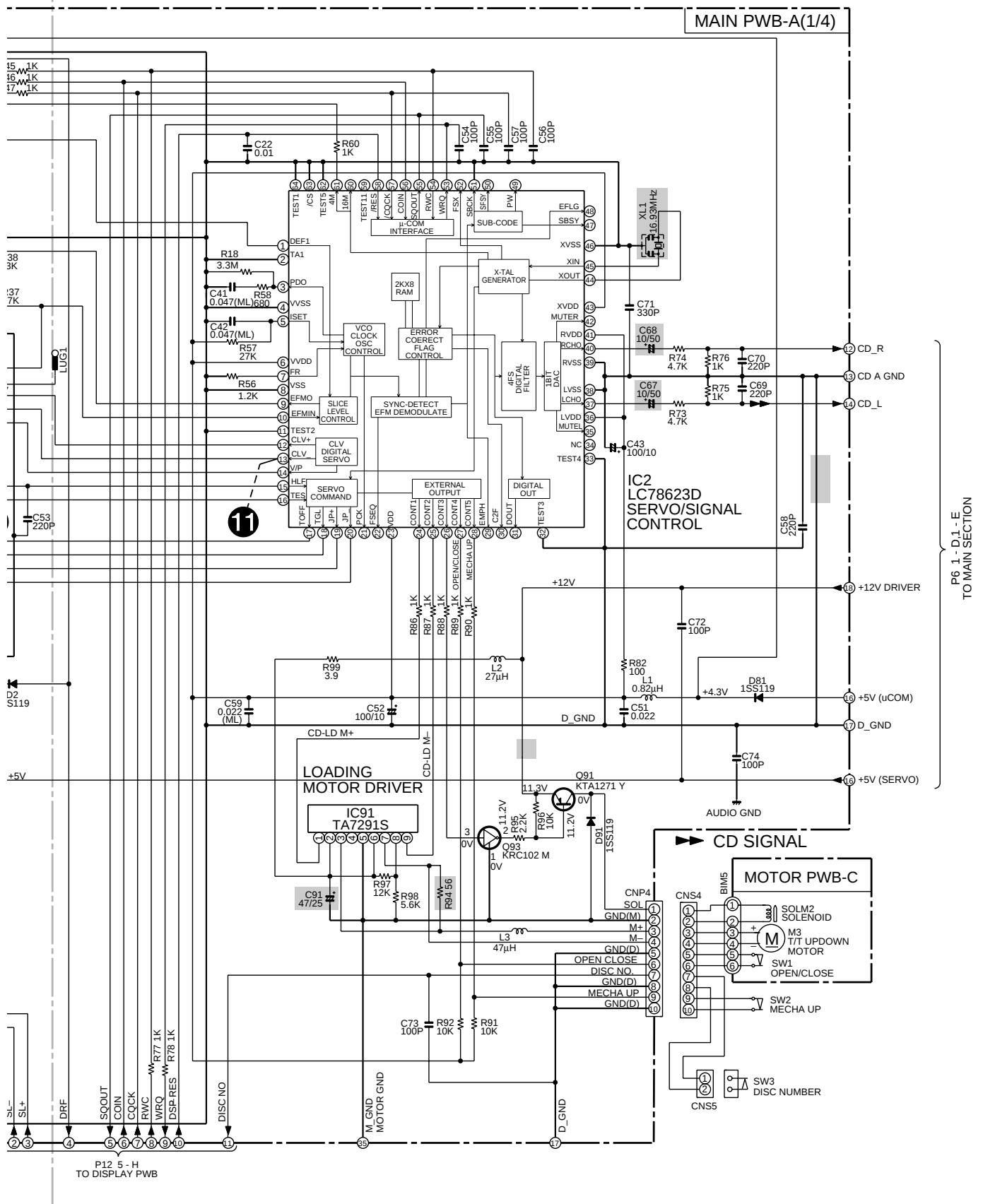


Figure 4 SCHEMATIC DIAGRAM (1/9)



- The numbers 1 to 12 are waveform numbers shown in page 29 (CD-C401W).

Figure 5 SCHEMATIC DIAGRAM (2/9)

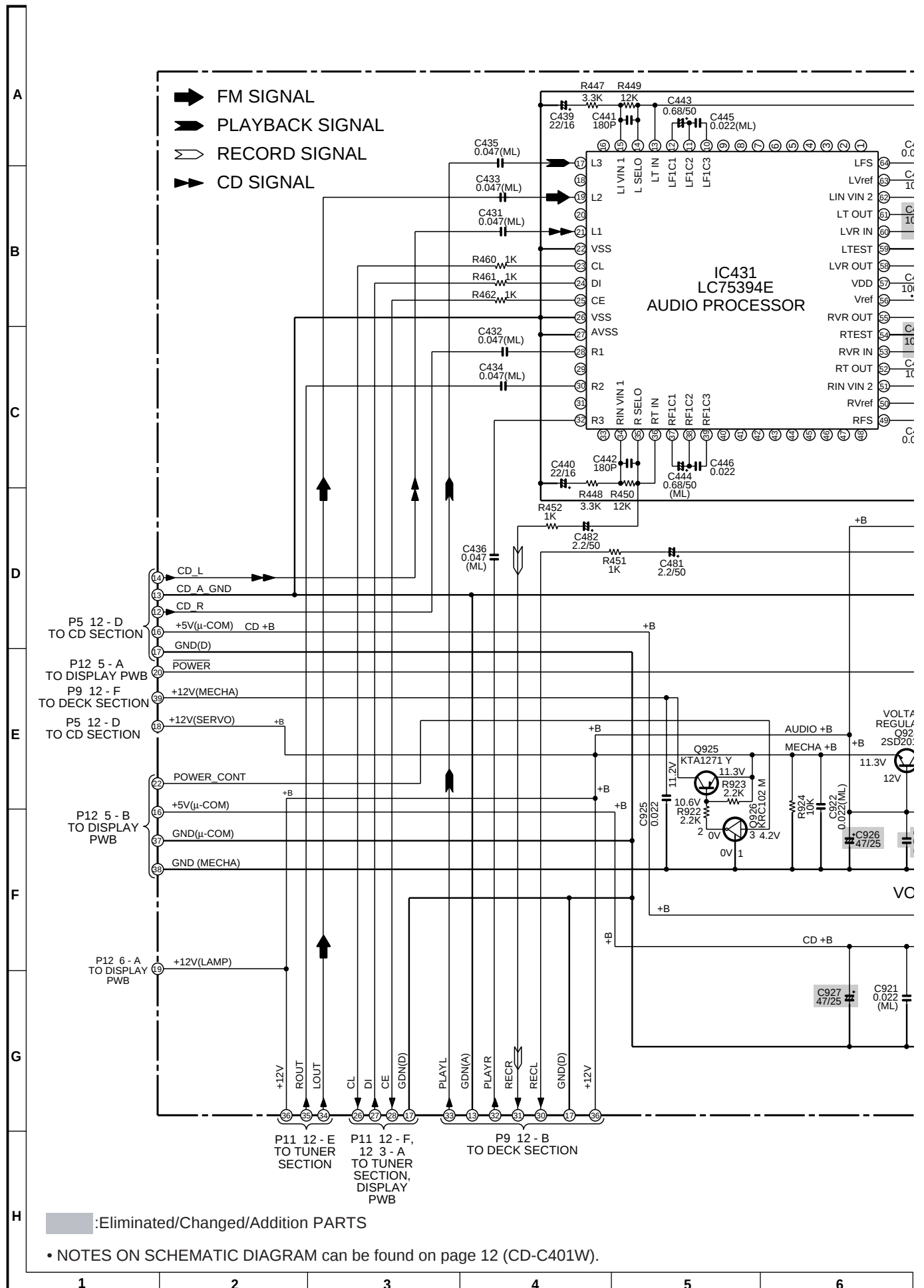


Figure 6 SCHEMATIC DIAGRAM (3/9)

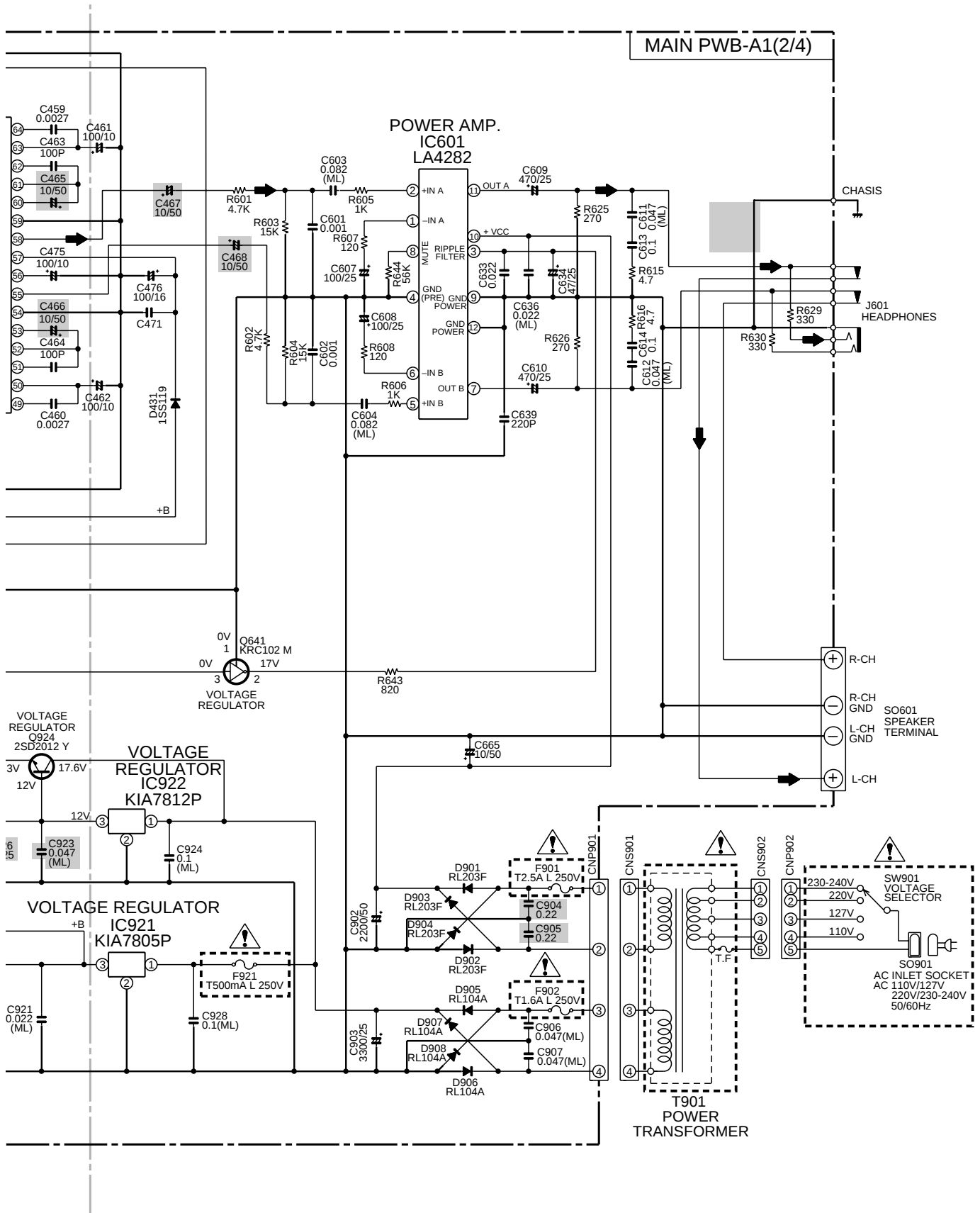


Figure 7 SCHEMATIC DIAGRAM (4/9)

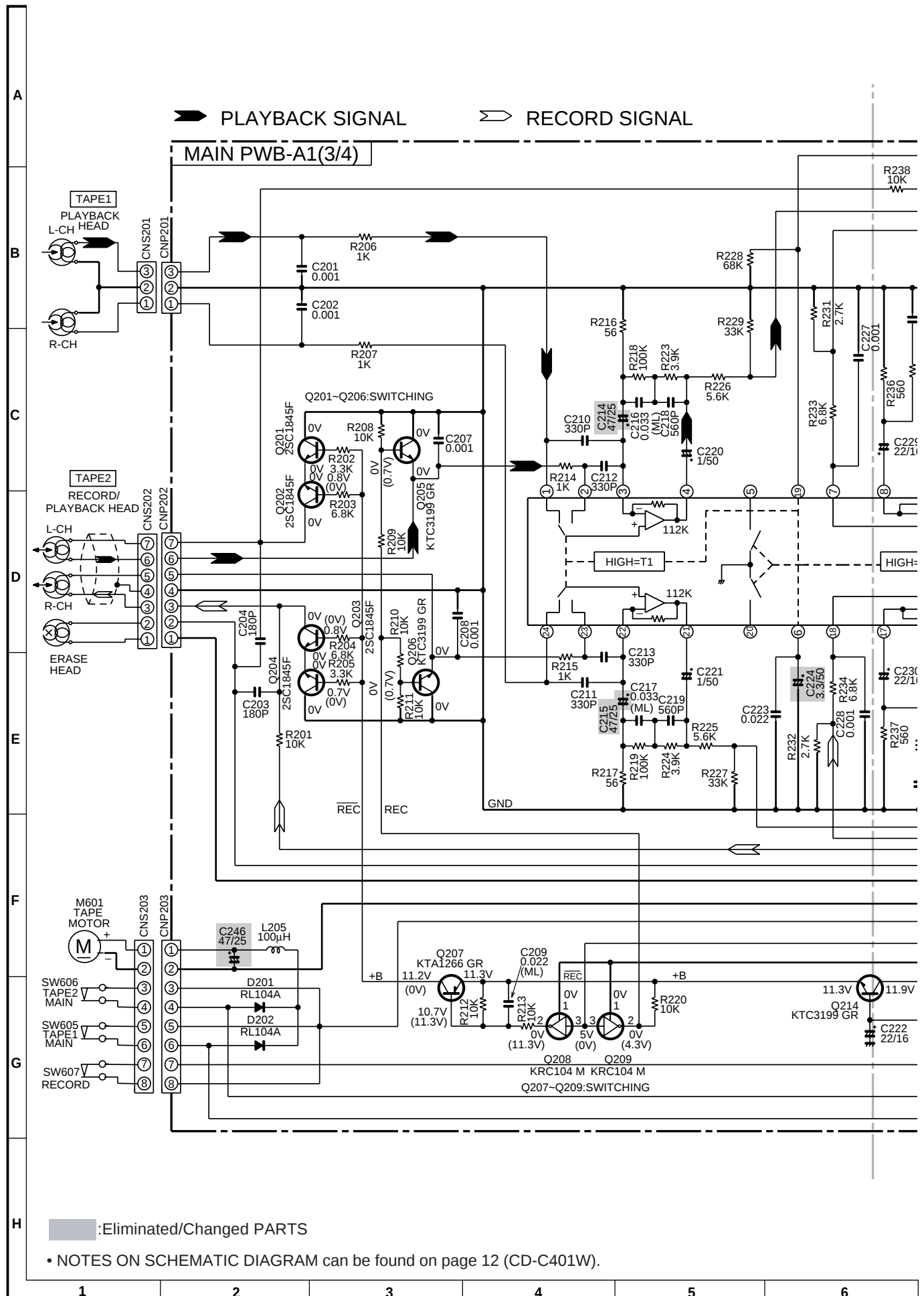


Figure 8 SCHEMATIC DIAGRAM (5/9)

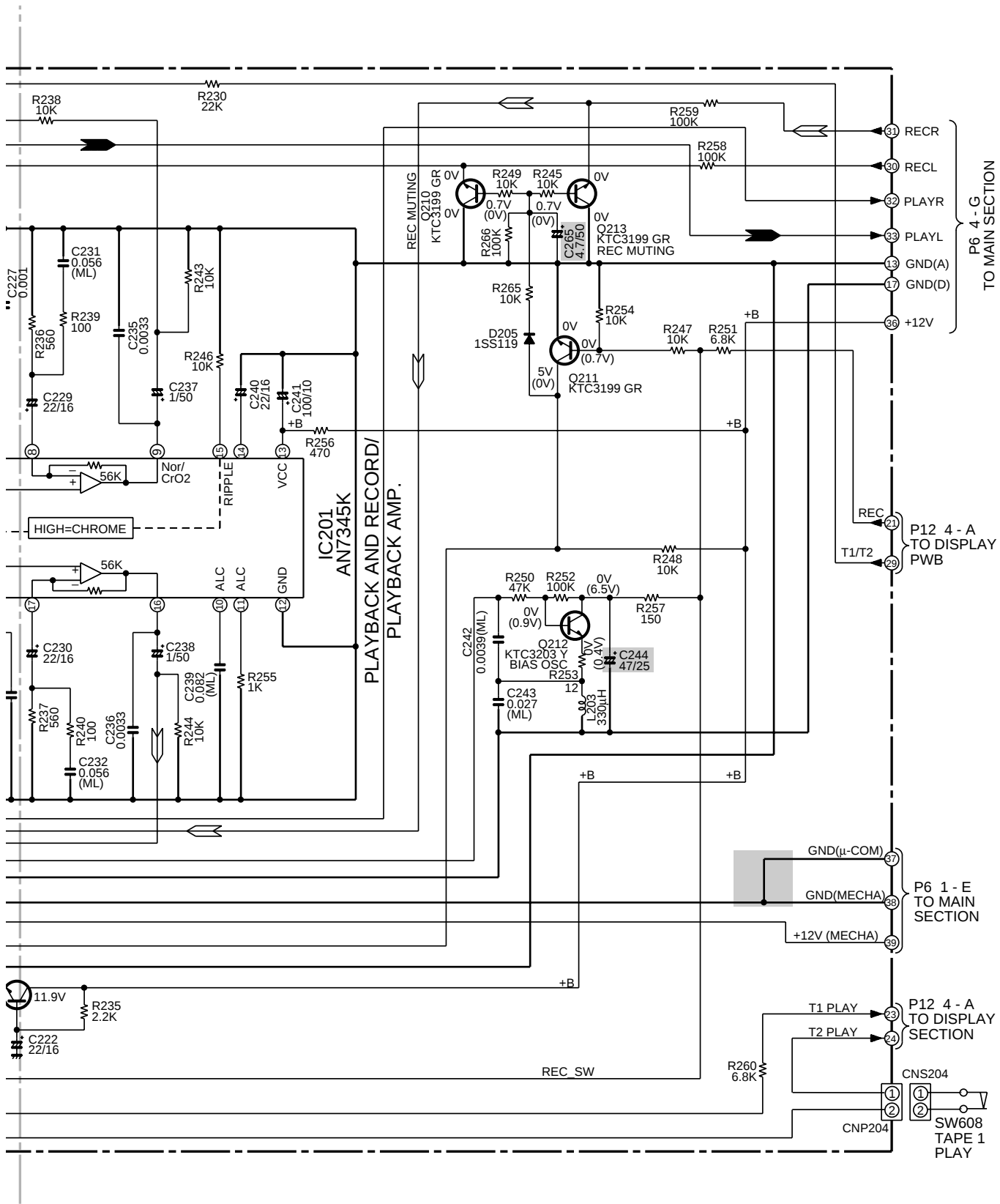


Figure 9 SCHEMATIC DIAGRAM (6/9)

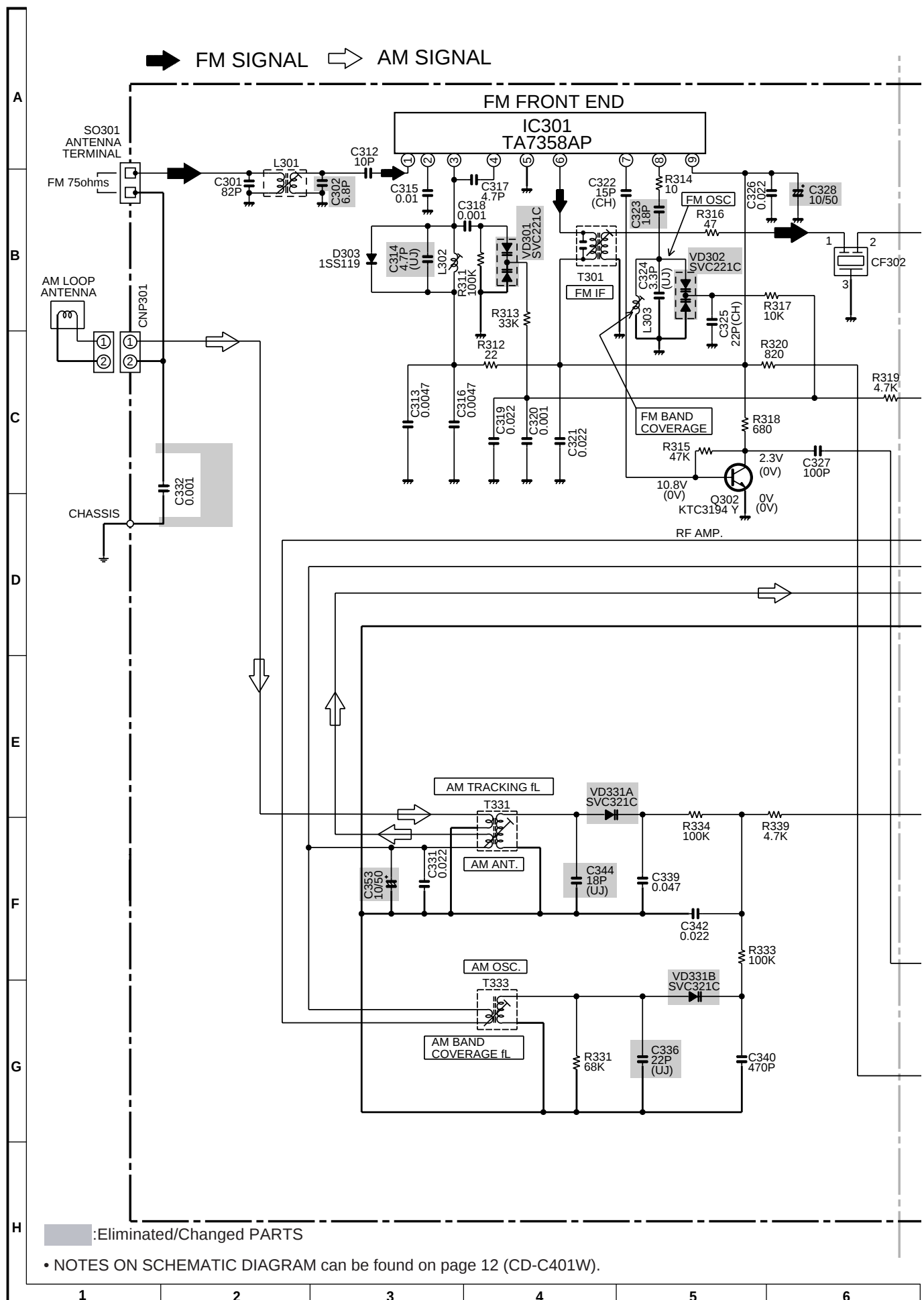


Figure 10 SCHEMATIC DIAGRAM (7/9)

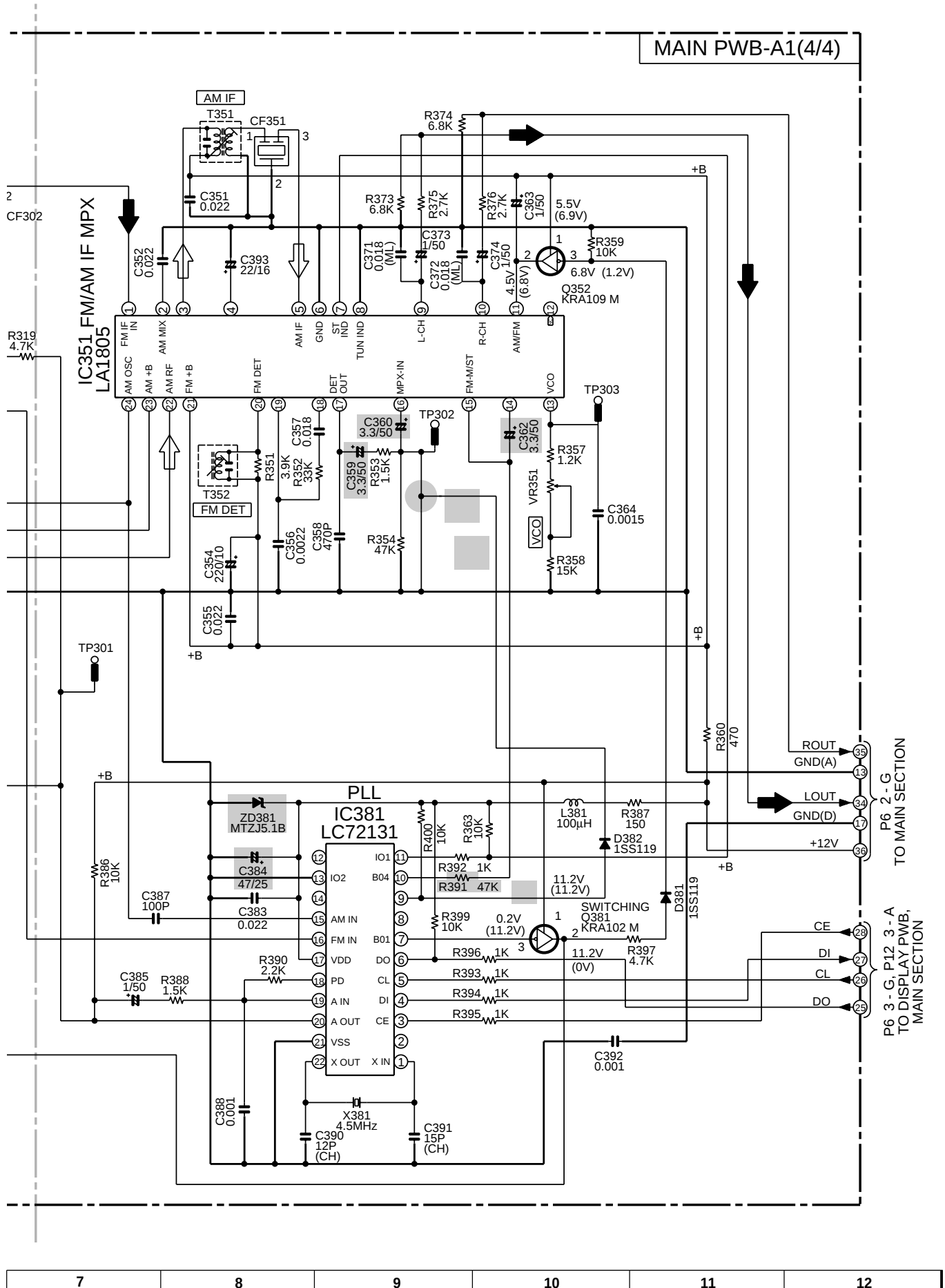


Figure 11 SCHEMATIC DIAGRAM (8/9)



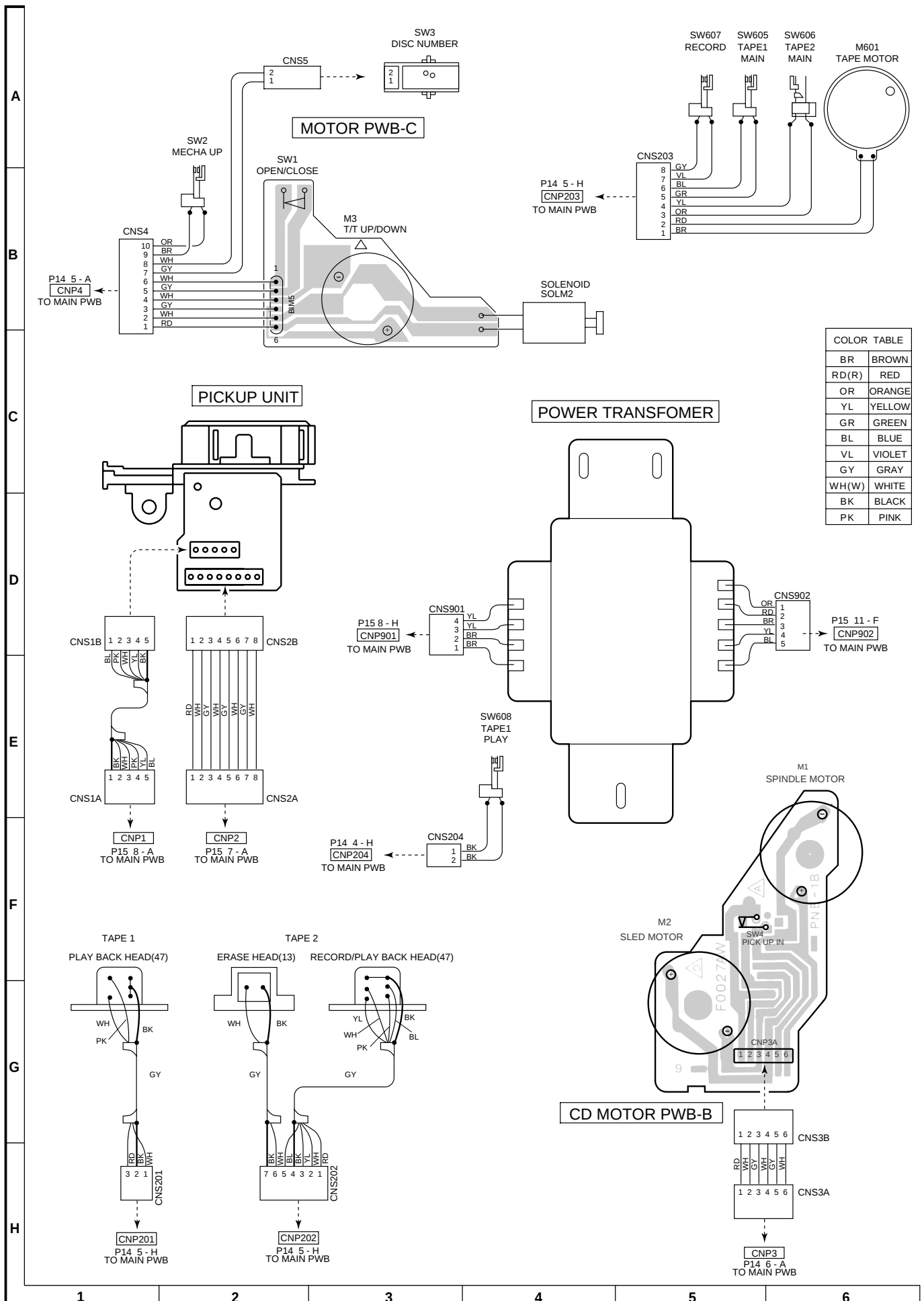


Figure 13 WIRING SIDE OF P.W.BOARD (1/3)

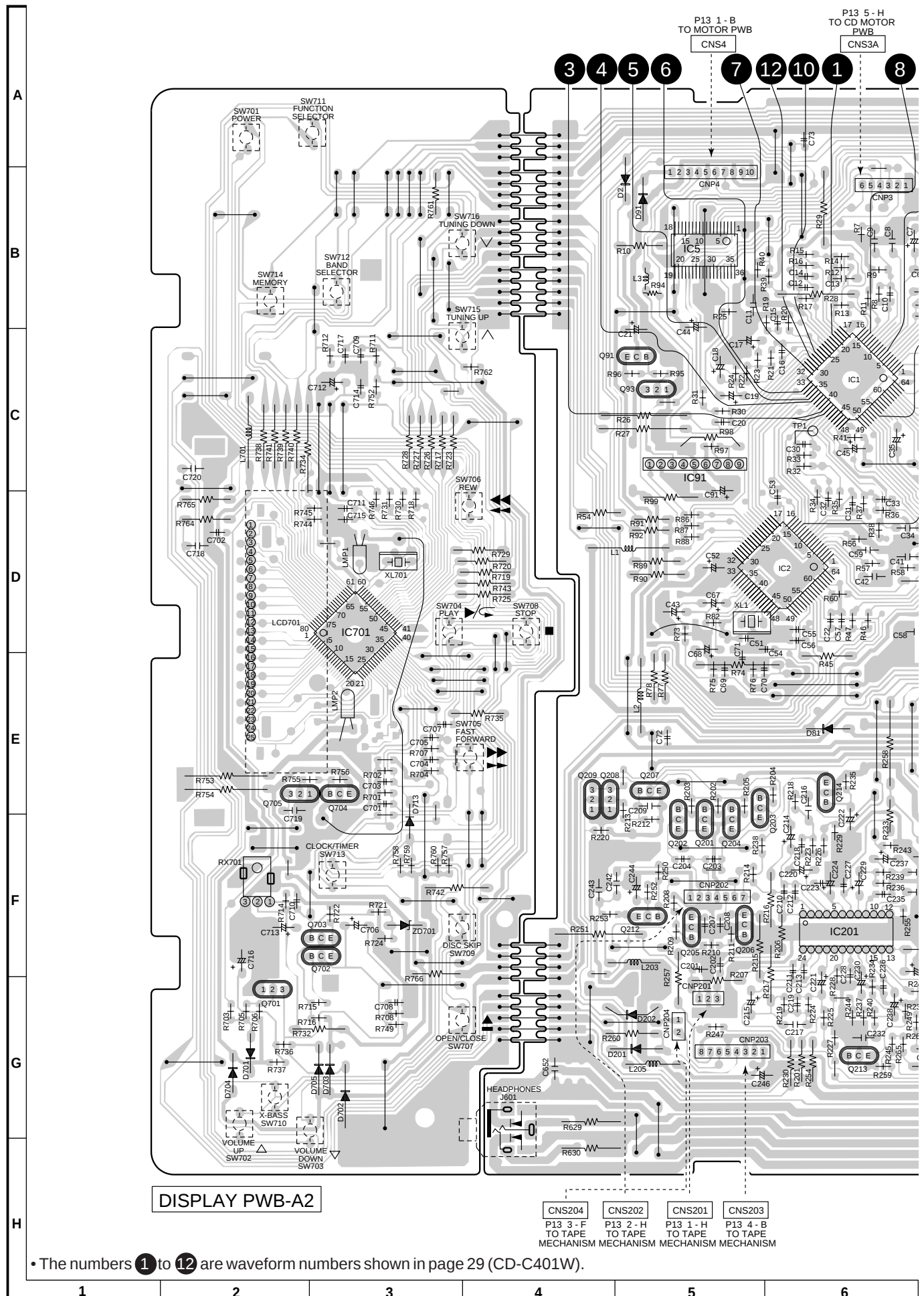


Figure 14 WIRING SIDE OF P.W.BOARD (2/3)

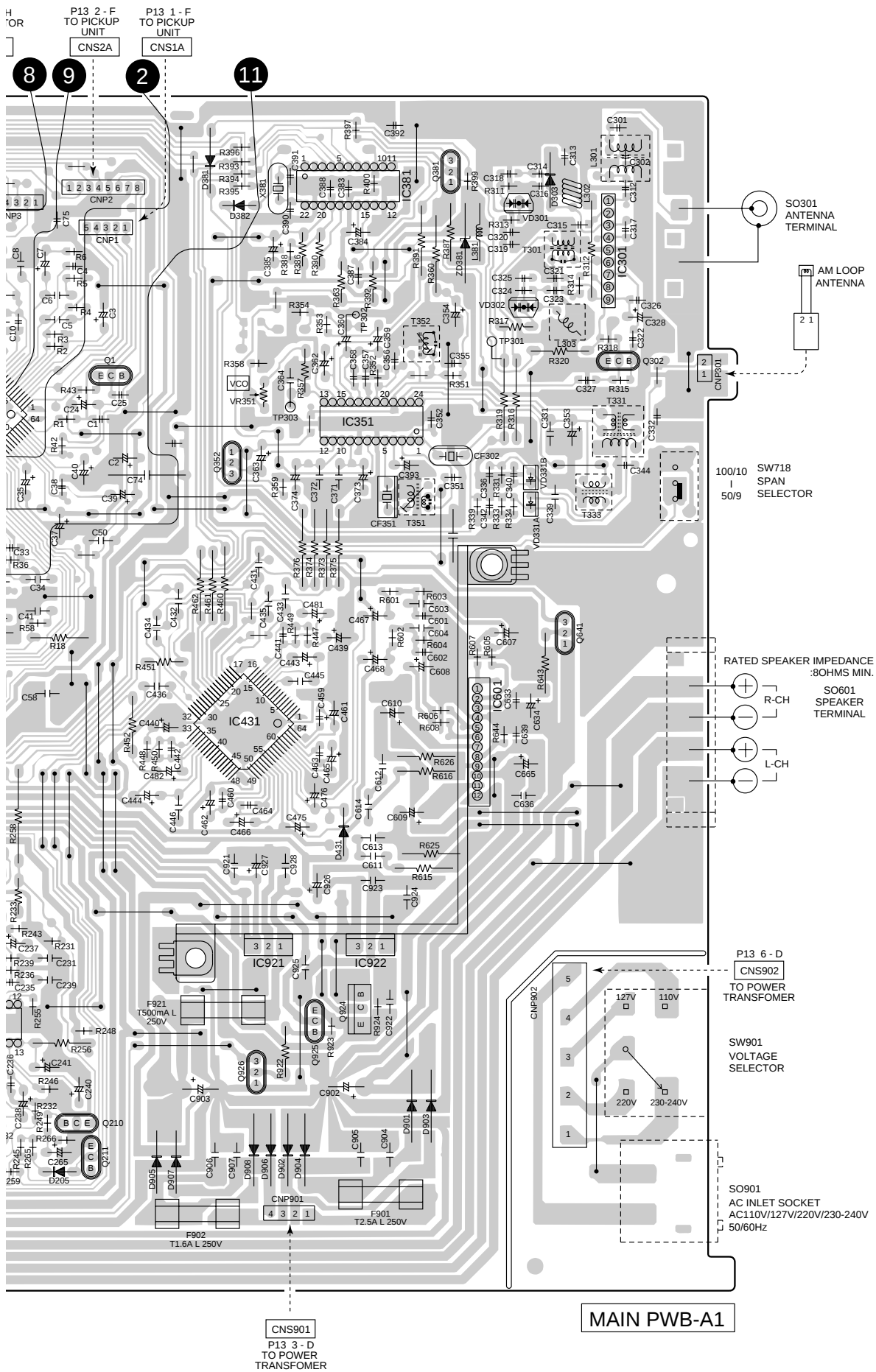


Figure 15 WIRING SIDE OF P.W.BOARD (3/3)
- 15 -

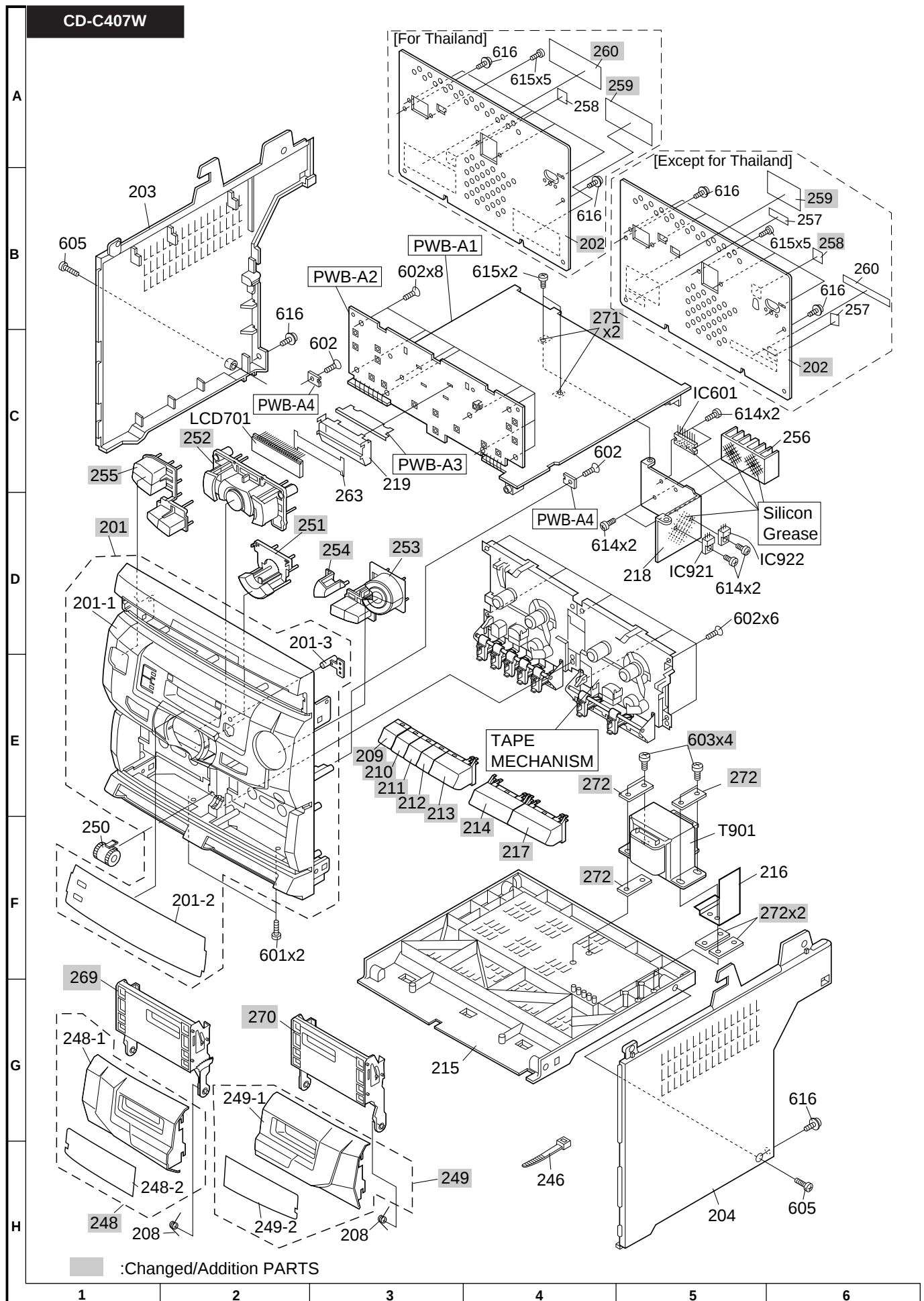
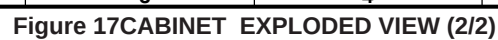


Figure 16 CABINET EXPLODED VIEW (1/2)



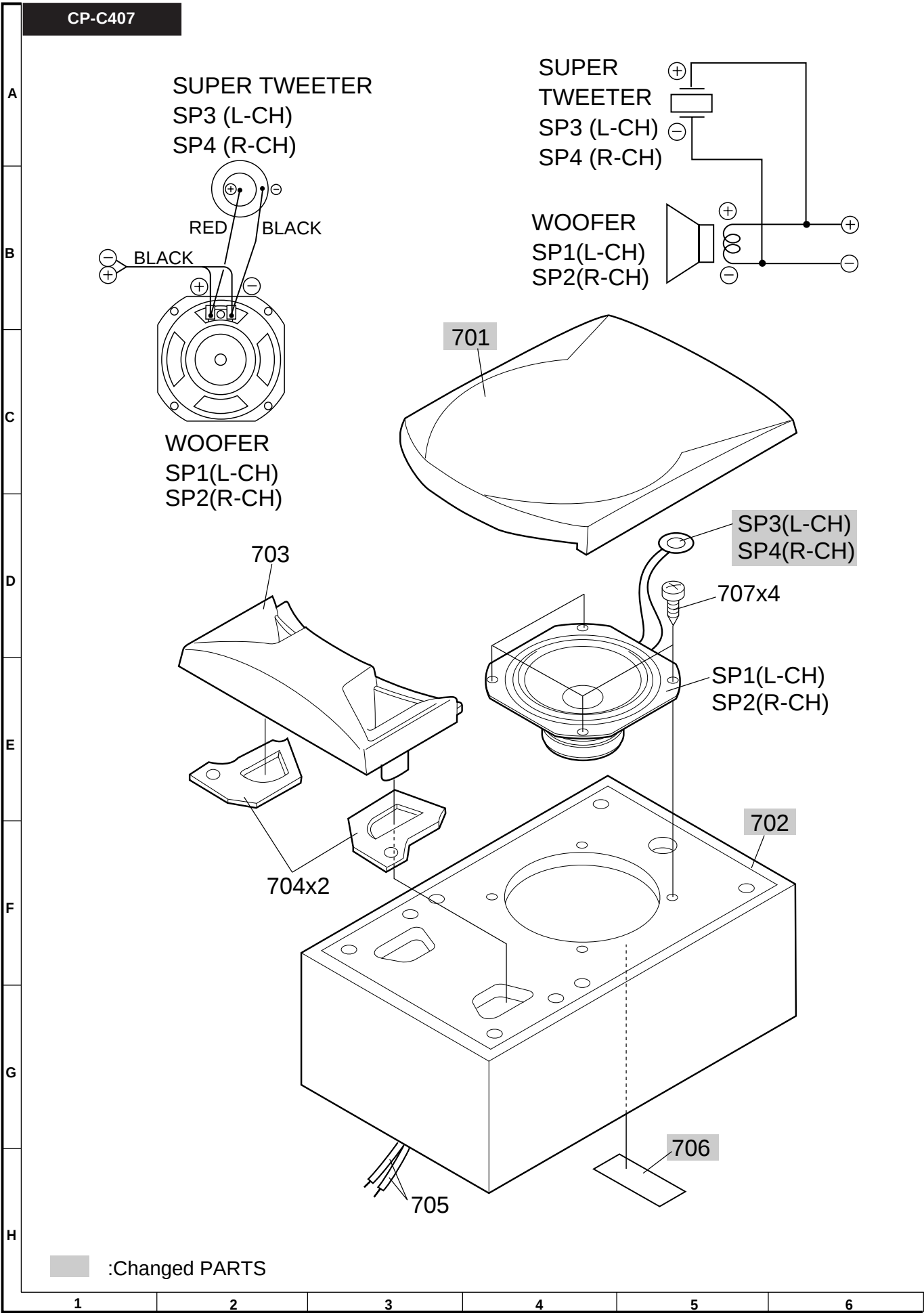


Figure 18 SPEAKER EXPLODED VIEW

— MEMO —

SHARP

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