

XR-L240

SERVICE MANUAL

Ver 1.0 2001.10

AEP Model
UK Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36SZ12-32

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.13 % (WRMS)
Frequency response	30 – 15,000 Hz
Signal-to-noise ratio	55 dB

Tuner section

FM	
Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz
Usable sensitivity	11 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.7 % (stereo), 0.5 % (mono)
Separation	33 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW / LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz / 450 kHz
Sensitivity	MW: 30 μ V LW: 50 μ V

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W \times 4 (at 4 ohms)

General

Outputs	Power aerial relay control lead
Tone controls	Bass \pm 9 dB at 100 Hz Treble \pm 9 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 \times 50 \times 178 mm (w/h/d)
Mounting dimensions	Approx. 182 \times 53 \times 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

*Design and specifications are subject to change
without notice.*

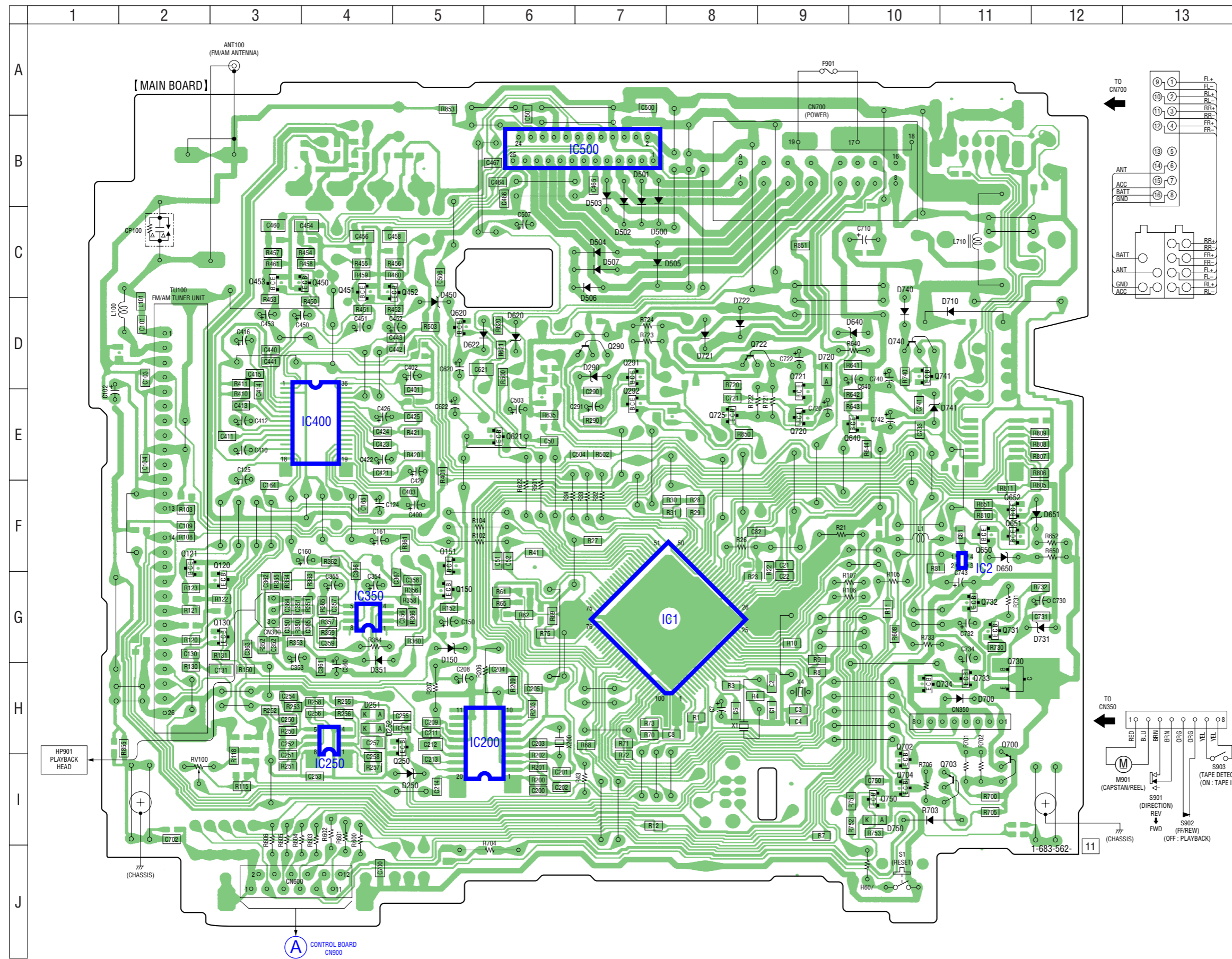
FM/MW/LW CASSETTE CAR STEREO

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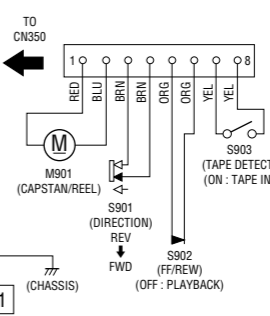
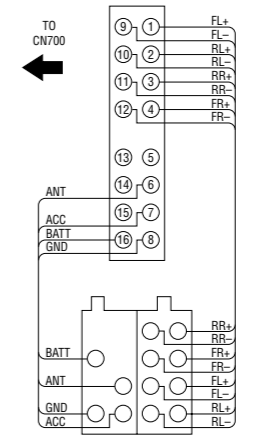
SONY®

5-2. PRINTED WIRING BOARD – MAIN Board –



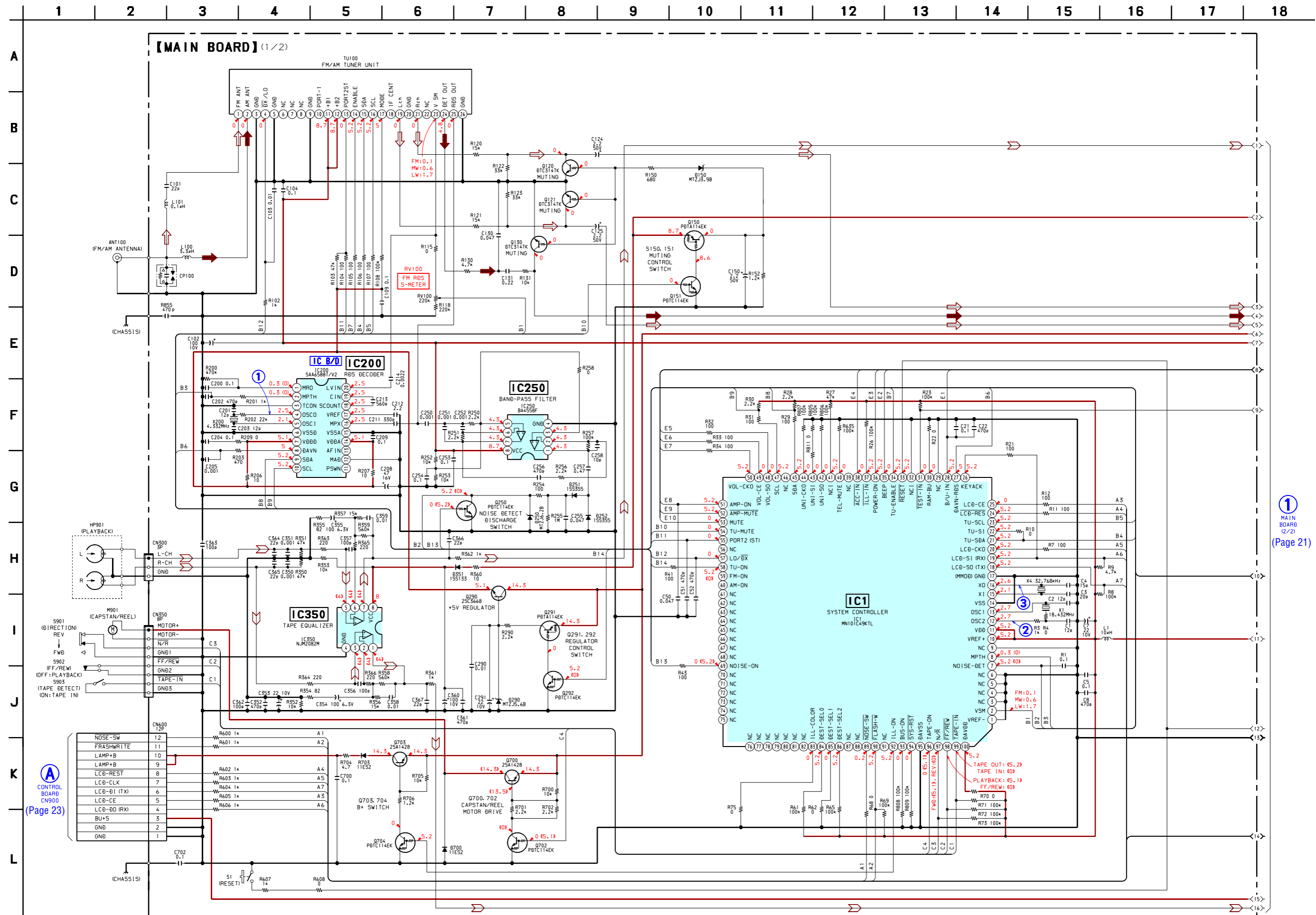
• Semiconductor Location

Ref. No.	Location
D150	G-5
D250	I-5
D251	H-4
D252	H-4
D290	D-7
D351	G-4
D450	D-5
D500	B-7
D501	B-7
D502	B-7
D503	B-7
D504	C-7
D505	C-7
D506	C-7
D507	C-7
D620	D-6
D622	D-5
D640	D-10
D650	F-11
D651	F-12
D700	H-11
D710	D-11
D720	D-9
D721	D-8
D722	D-8
D731	G-12
D740	D-10
D741	E-10
D750	I-10
IC1	G-8
IC2	F-11
IC200	H-6
IC250	H-4
IC350	G-4
IC400	E-4
IC500	B-7
Q120	G-3
Q121	F-2
Q130	G-3
Q150	G-5
Q151	F-5
Q250	H-5
Q290	D-7
Q291	D-7
Q292	E-7
Q450	C-4
Q451	C-4
Q452	C-5
Q453	C-3
Q620	D-5
Q621	E-6
Q640	E-10
Q650	F-11
Q651	F-11
Q652	F-11
Q700	I-11
Q702	I-10
Q703	I-11
Q704	I-10
Q720	E-9
Q721	E-9
Q722	D-8
Q725	E-8
Q730	H-11
Q731	G-11
Q732	G-11
Q733	H-11
Q734	H-10
Q740	D-10
Q741	D-10
Q750	I-10
R703	I-10



A CONTROL BOARD
CN900
(Page 22)

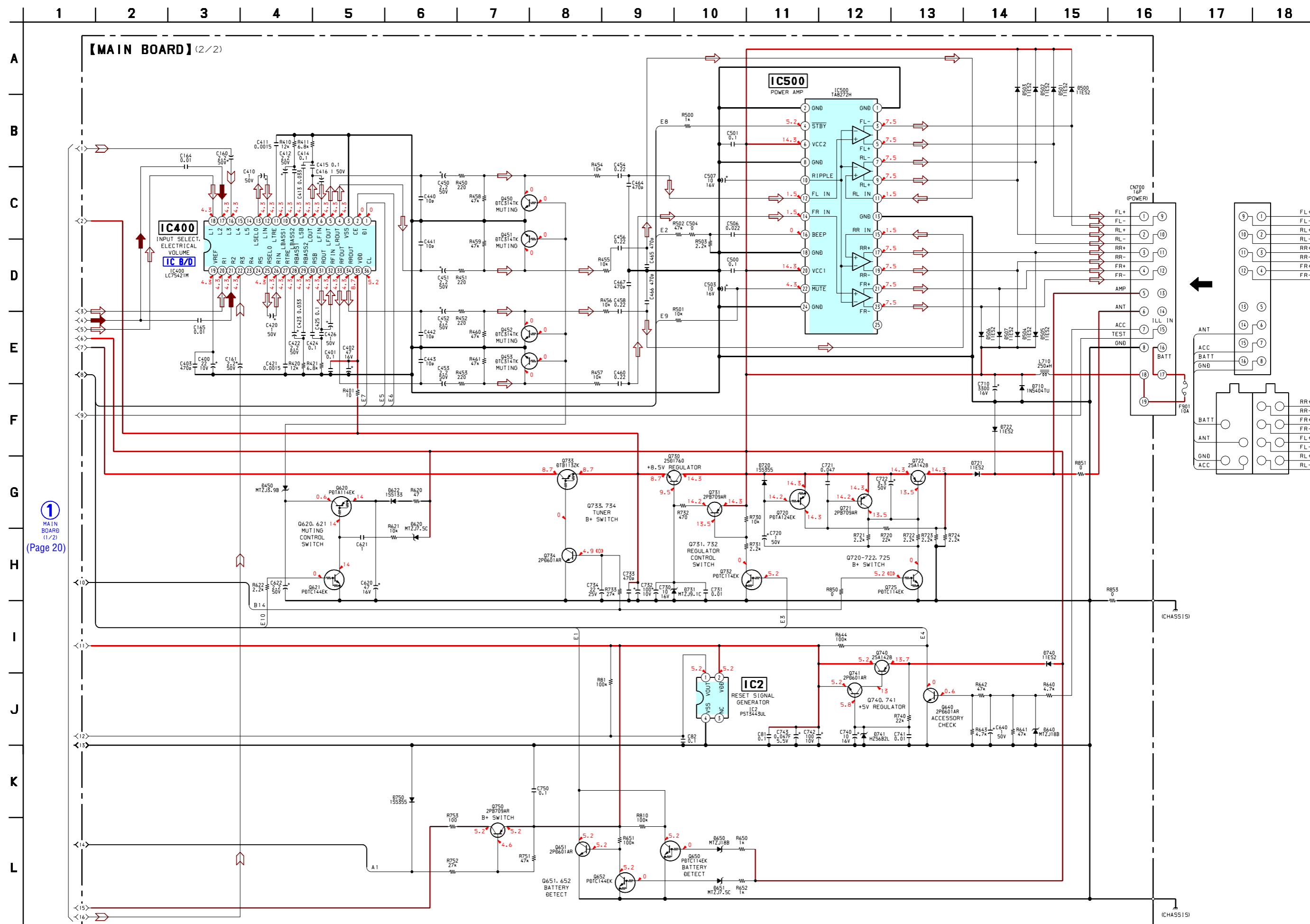
5-3. SCHEMATIC DIAGRAM – MAIN Board (1/2) – • See page 24 for Waveforms. • See page 24 for IC Block Diagram.



1 MAIN BOARD (2/2) (Page 21)

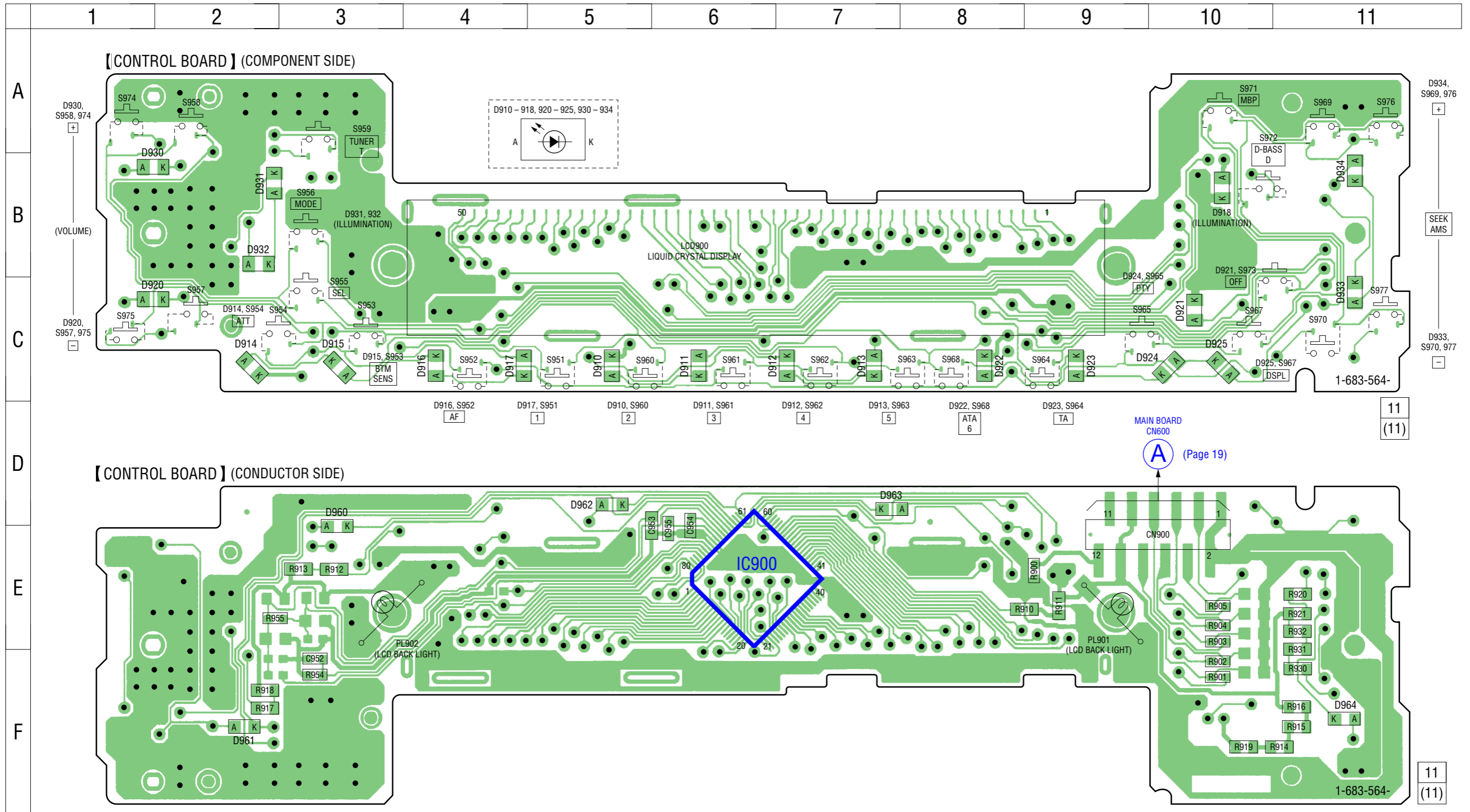
A CONTROL BOARD CN900 (Page 23)

5-4. SCHEMATIC DIAGRAM – MAIN Board (2/2) – • See page 24 for IC Block Diagram.



1 MAIN BOARD (1/2) (Page 20)

5-5. PRINTED WIRING BOARD – CONTROL Board –



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D910	C-5	D920	C-1	D933	C-11
D911	C-6	D921	C-10	D934	B-11
D912	C-7	D922	C-8	D960	D-3
D913	C-7	D923	C-9	D961	F-2
D914	C-2	D924	C-10	D962	D-5
D915	C-3	D925	C-10	D963	D-7
D916	C-4	D930	B-1	D964	F-11
D917	C-4	D931	B-2	IC900	E-6
D918	B-10	D932	B-2		

5-6. SCHEMATIC DIAGRAM – CONTROL Board – • See page 24 for Waveform.

