

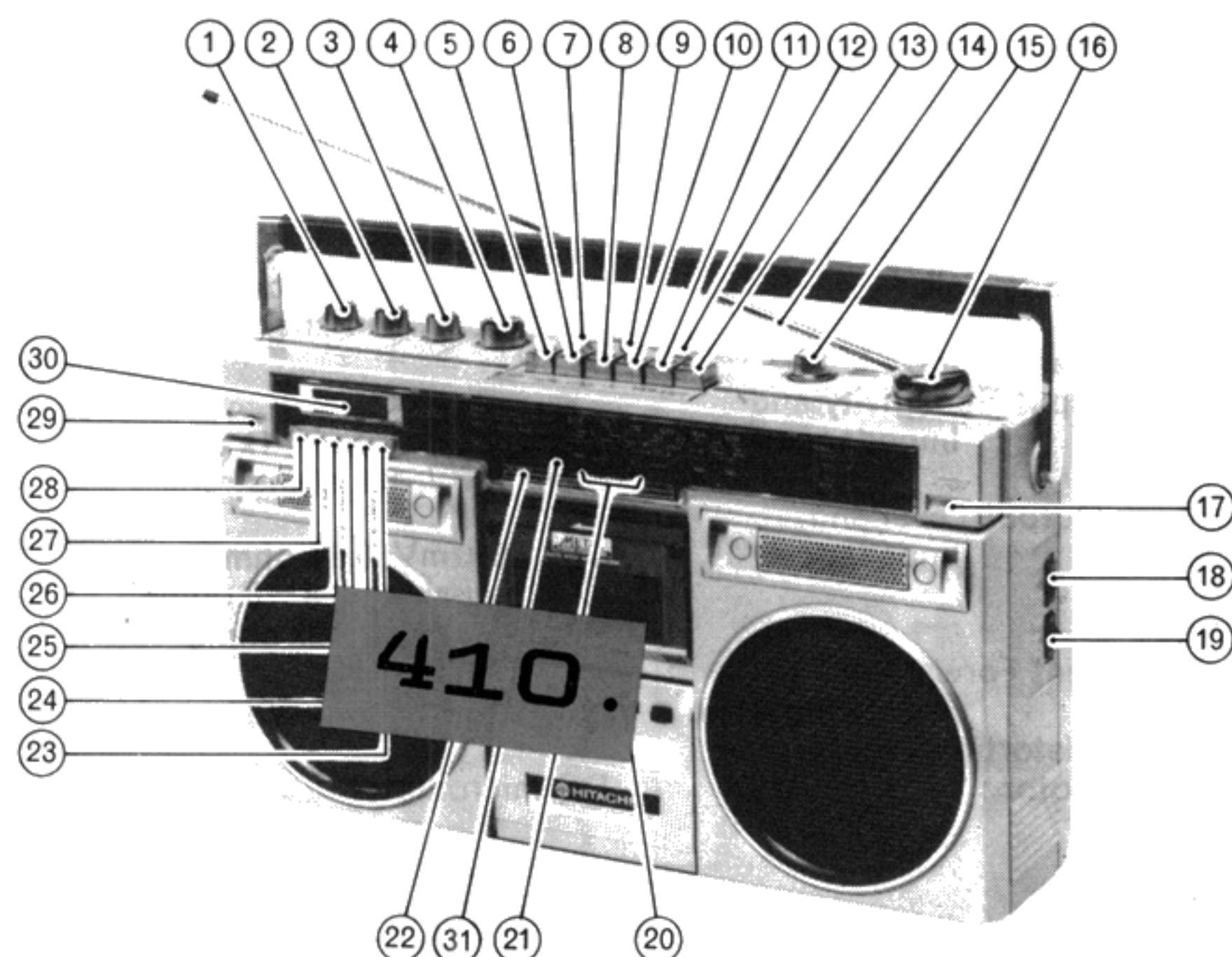
HITACHI

SERVICE MANUAL

TK

No. 1679E

TRK-7910E, E(BS), EZ



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KEY TO ILLUSTRATIONS

- | | |
|-------------------------------|---------------------------------------|
| ① BALANCE CONTROL | ①⑦ BUILT IN MICROPHONE (RIGHT) |
| ② BASS CONTROL | ①⑧ AFC SWITCH |
| ③ TREBLE CONTROL | ①⑨ FM MODE SWITCH |
| ④ VOLUME CONTROL | ②⑦ TAPE COUNTOR |
| ⑤ PAUSE BUTTON | ②⑧ LED LEVEL INDICATORS |
| ⑥ FAST FORWARD BUTTON | ②⑨ FM STEREO INDICATOR |
| ⑦ FUNCTION SELECTOR | ②⑩ SLEEP OFF/SNOOZE BUTTON |
| ⑧ REWIND BUTTON | ②⑪ SLEEP ON BUTTON |
| ⑨ TAPE SELECTOR | ②⑫ TIMER BUTTON |
| ⑩ PLAYBACK BUTTON | ②⑬ TIME SET BUTTON |
| ⑪ RECORD BUTTON | ②⑭ MINUTE SET BUTTON |
| ⑫ POWER SWITCH | ②⑮ HOUR SET BUTTON |
| ⑬ STOP/EJECT BUTTON | ②⑯ BUILT IN MICROPHONE (LEFT) |
| ⑭ TELESCOPIC ANTENNA (AERIAL) | ③⑦ TIME DISPLAY |
| ⑮ BAND SELECTOR | ③⑧ AC POWER (MAINS) INDICATOR [E(BS)] |
| ⑯ TUNING CONTROL | |

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes.
Critical parts are marked with $\triangle$ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

CASSETTE TAPE RECORDER WITH FM/SW/MW/LW RADIO

SPECIFICATIONS

GENERAL SECTION

Semi-conductors :	IC's : 7 Transistors : 6 [E, E(BS)] 7 (EZ) Diodes : 10 LED's : 6 (E, EZ) 7 [E (BS)] Varicap : 1 Zener diode : 1
Power (Mains) Supply :	AC : 220V, 50 Hz (E), (EZ) 240V, 50 Hz (E(BS)) DC : 12V (IEC R20×8 or equivalent) DC : 3V (IEC R6×2 or equivalent)
Power (Mains) Consumption :	26W
Dimensions :	474(W)×276(H)×157(D)mm
Weight :	6kg (with batteries)
Power output :	5W/ch (T.H.D. 10%), 15W M.P.O. (AC operation)
Speaker :	120mm, 2.8 ohms×2 30mm, 3,000 ohms×2

TUNER SECTION

Circuit System :	FM/SW/MW/LW 4-band superheterodyne
Tuning Range :	FM : 87.5 to 108 MHz SW : 6.0 to 18.0 MHz MW : 530 to 1605 kHz LW : 150 to 350 kHz
Sensitivity :	FM : 10 dB (pra.), 3 dB (max.) SW : 25 dB (pra.), 18 dB (max.) MW : 48 dB (pra.), 35 dB (max.) LW : 55 dB (pra.), 45 dB (max.)

Intermediate Frequency :	FM : 10.7 MHz SW/MW/LW : 465 kHz
Antennas (Aerials) :	FM/SW : Telescopic antenna MW/LW : Built-in ferrite-core antenna

TAPE RECORDER

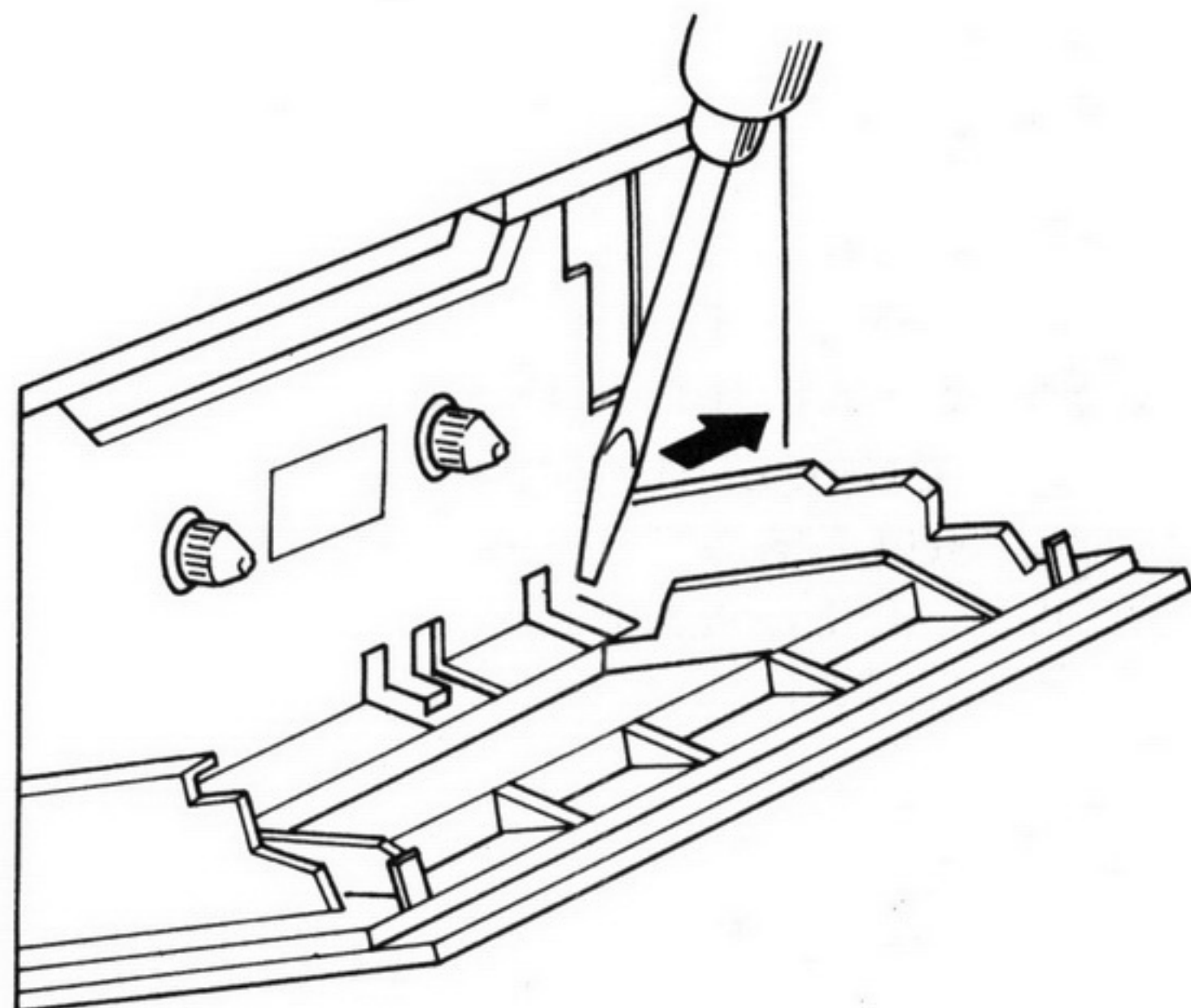
Tape :	Cassette tape (C-30, 60, 90)
Tape Speed :	4.75cm/s
Recording System :	AC bias, 57 kHz
Erasing System :	AC erase
Track System :	4 track 2 channel
Frequency Response :	Normal : 70 Hz to 12 kHz CrO ₂ : 70 Hz to 13 kHz METAL : 70 Hz to 14 kHz

S/N (Signal to Noise Ratio) :	40 dB
Wow and Flutter :	0.15% (WRMS)
Cross Talk :	60 dB (Between tracks) 40 dB (Between channels)
Erase Ratio :	60 dB
Input Sensitivity and Impedance :	Microphone : 2mV, 1k ohms DIN : 8mV, 10k ohms
Output Level and Impedance :	DIN : 500mV, 6.8k ohms EXT. Speaker : 2.8~8 ohms Headphone : 8~2k ohms

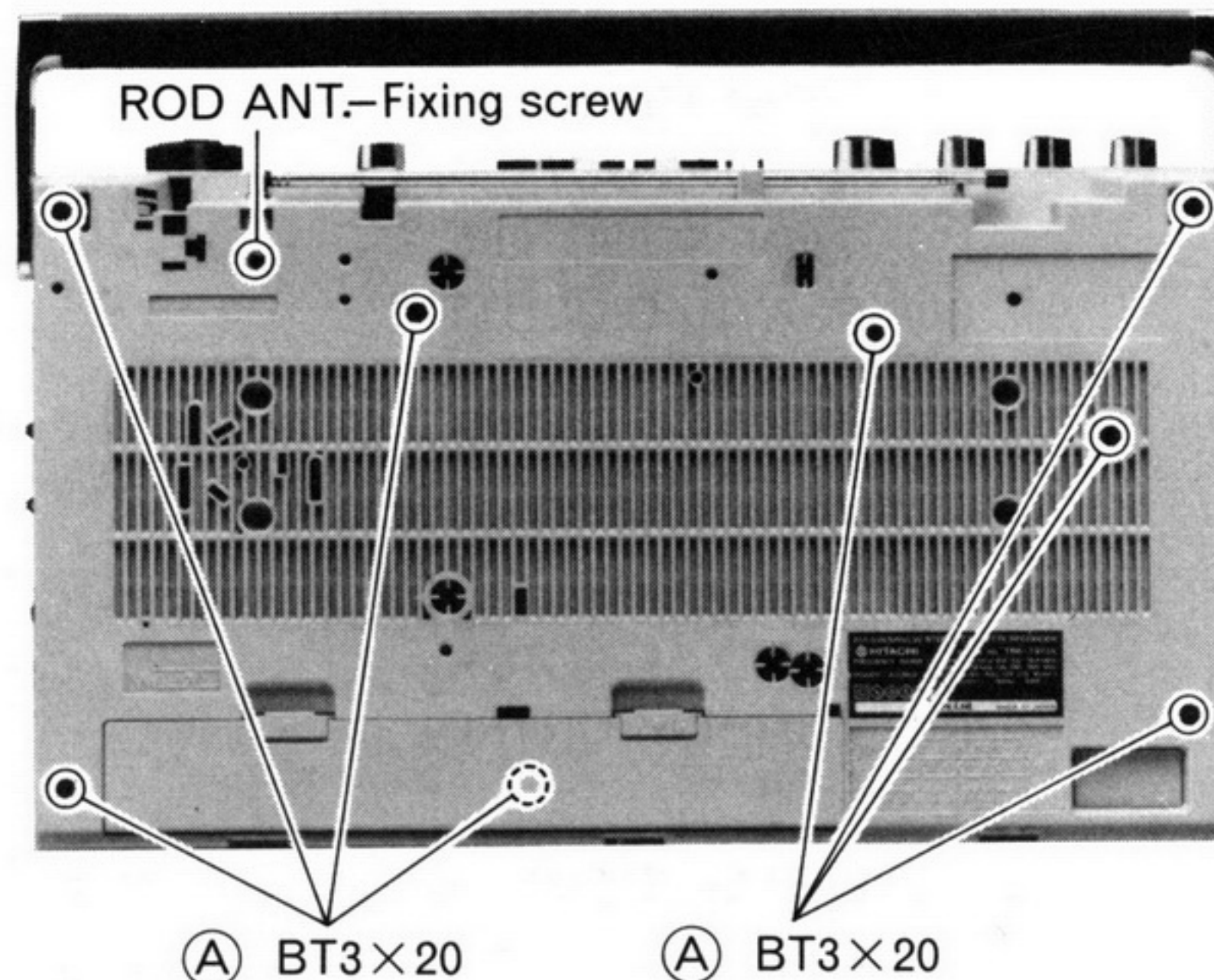
Fast Forward or Rewinding Time :	120 sec. (Using C-60)
Distortion :	2%
Motor :	DC micromotor

DISASSEMBLY

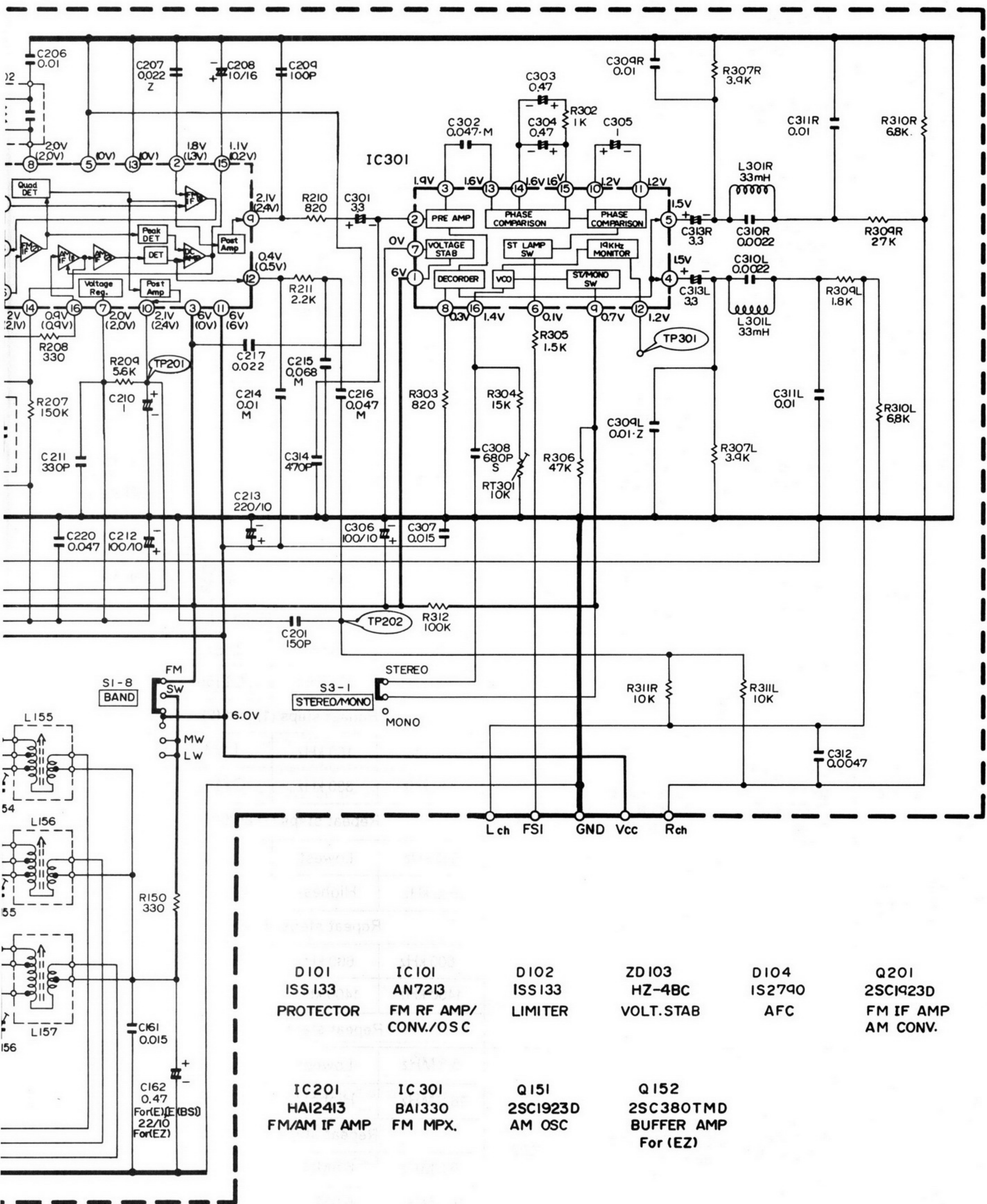
1. Cassette lid



2. Rear case : Fixing screws (A) (8)







D101
ISS 133
PROTECTOR

IC101
AN7213
FM RF AMP/
CONV./OSC

D102
ISS133
LIMITER

ZD103
HZ-48C
VOLT. STAB

D104
IS2790
AFC

Q201
2SC1923D
FM IF AMP
AM CONV.

IC201
HA12413
FM/AM IF AMP

IC301
BA1330
FM MPX.

Q151
2SC1923D
AM OSC

Q152
2SC380TMD
BUFFER AMP
For (EZ)

