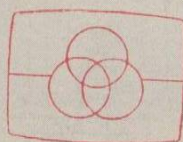


TC-K44

PRELIMINARY

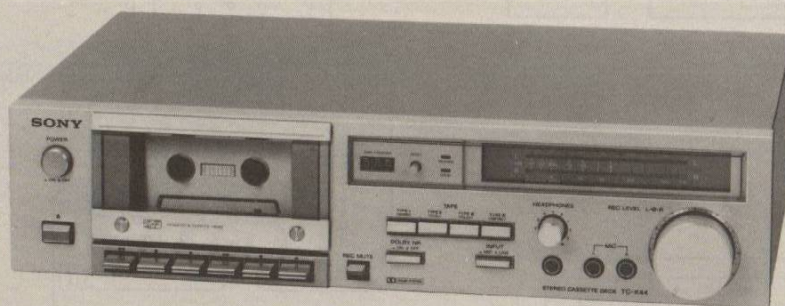


Free service manuals
Gratis schema's

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US Model
Canadian Model
AEP Model
UK Model
E Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories. Noise reduction system manufactured under license from Dolby Laboratories.

STEREO CASSETTE DECK

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz
(US, Canadian model)
220 V ac, 50/60 Hz (or 240 V ac
adjustable by authorized Sony personnel)
(AEP model)
240 V ac, 50/60 Hz (or 220 V ac
adjustable by authorized Sony personnel)
(UK model)
110, 120, 220 or 240 V ac ~ adjustable,
50/60 Hz
(E model)

Power Consumption: 14 W (AEP, UK, US, Canadian model)
15 W (E model)

Dimensions: Approx. 430 (w) x 105 (h) x 290 (d) mm
17 (w) x 4 1/4 (h) x 11 1/2 (d) inches
(US, AEP, UK, E model)
Approx. 460 (w) x 105 (h) x 290 (d) mm
18 1/8 (w) x 4 1/4 (h) x 11 1/2 (d) inches
(Canadian model)
Including projecting parts and controls

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES ÉCLATÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Weight: Approx. 5 kg, 11 lb 1 oz
(US, AEP, UK model)
Approx. 5.1 kg, 11 lb 4 oz
(E model)
Approx. 5.5 kg, 12 lb 3 oz
(Canadian model)

— Continued on page 2 —

SONY®

SERVICE MANUAL

TAPE RECORDER SECTION

Recording System: 4-track 2-channel stereo

Fast-forward and
Rewind Time: Approx. 90 sec. (with C-60)Frequency
Response: DOLBY NR OFF

US, Canadian model:

- With TYPE IV cassette (Sony METALLIC)
20 – 17,000 Hz
30 – 15,000 Hz (± 3 dB)
30 – 13,000 Hz (± 3 dB, 0 VU recording)
- With TYPE III cassette (Sony Fe-Cr)
20 – 17,000 Hz
30 – 15,000 Hz (± 3 dB)
- With TYPE II cassette (Sony EHF)
20 – 16,000 Hz
30 – 14,000 Hz (± 3 dB)
- With TYPE I cassette (Sony HFX)
20 – 15,000 Hz

AEP, UK, E model:

- With TYPE IV cassette (Sony METALLIC)
20 – 17,000 Hz
30 – 15,000 Hz (± 3 dB)
30 – 13,000 Hz (± 3 dB, 0 VU recording)
30 – 15,000 Hz (DIN)
- With TYPE III cassette (Sony Fe-Cr)
20 – 17,000 Hz
30 – 15,000 Hz (± 3 dB)
30 – 15,000 Hz (DIN)
- With TYPE II cassette (Sony CD- α)
20 – 16,000 Hz
30 – 14,000 Hz (± 3 dB)
30 – 14,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
20 – 15,000 Hz
30 – 13,000 Hz

Wow and
Flutter: 0.06 % WRMS (US, Canadian model)
0.06 % WRMS (NAB) } (AEP, UK, E model)
 ± 0.17 % (DIN)

S/N Ratio: DOLBY NR OFF

US, Canadian model:

- With TYPE IV cassette (Sony METALLIC)
58 dB at peak level
- With TYPE III cassette (Sony Fe-Cr)
58 dB at peak level
- With TYPE II cassette (Sony EHF)
58 dB at peak level

AEP, UK, E model:

- With TYPE IV cassette (Sony METALLIC)
58 dB at peak level (NAB)
56 dB (DIN)
- With TYPE III cassette (Sony Fe-Cr)
58 dB at peak level (NAB)
56 dB (DIN)
- With TYPE II cassette (Sony CD- α)
56 dB at peak level (NAB)

DOLBY NR ON

Improved by 5 dB at 1 kHz,
10 dB above 5 kHzTotal Harmonic
Distortion:

1.0 % (with Sony METALLIC and Fe-Cr cassette)

Record Bias
Frequency:

105 kHz

Inputs:

MIC (phone jacks)
sensitivity 0.25 mV (-70 dB) for
a low-impedance microphone

Outputs:

LINE IN (phono plugs)
sensitivity 77.5 mV (-20 dB)
input impedance 50 k Ω
LINE OUT (phono plugs)
output level 0.435 V (-5 dB)
at load impedance 50 k Ω
suitable load impedance more than 10 k Ω

HEADPHONES (binaural jack)

AEP, UK, E model:
output level -20 dB
at load impedance 8 Ω
US, Canadian model:
output level -60 to -20 dB
at load impedance of 8 Ω

0 dB = 0.775 V

LED LEVEL METERS

Response Range:

 -30 dB to $+8$ dB

Response Time:

1 millisecond

Decay Time

(from 0 dB to -20 dB): 750 milliseconds

Overshoot:

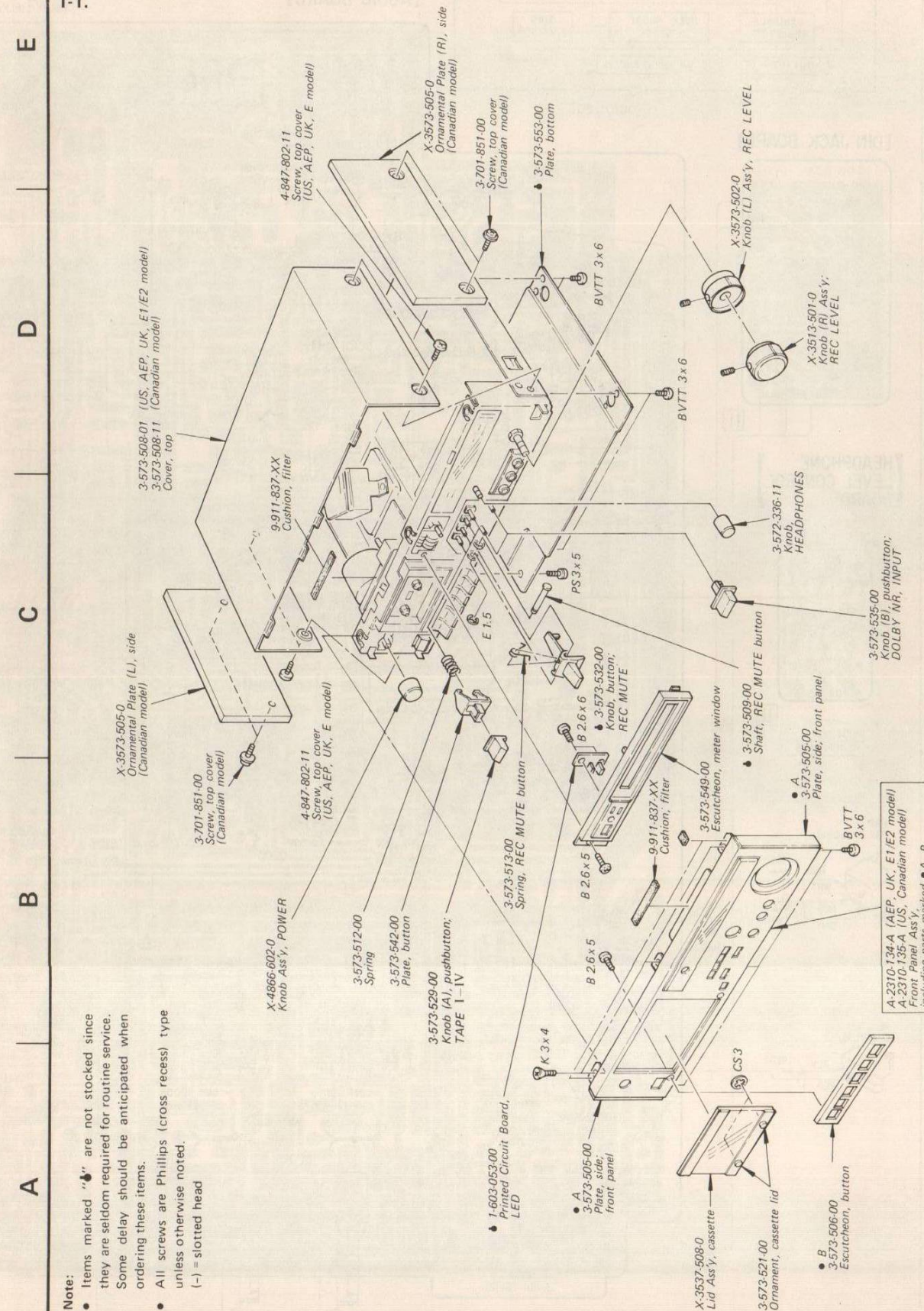
None

Indicator Elements:

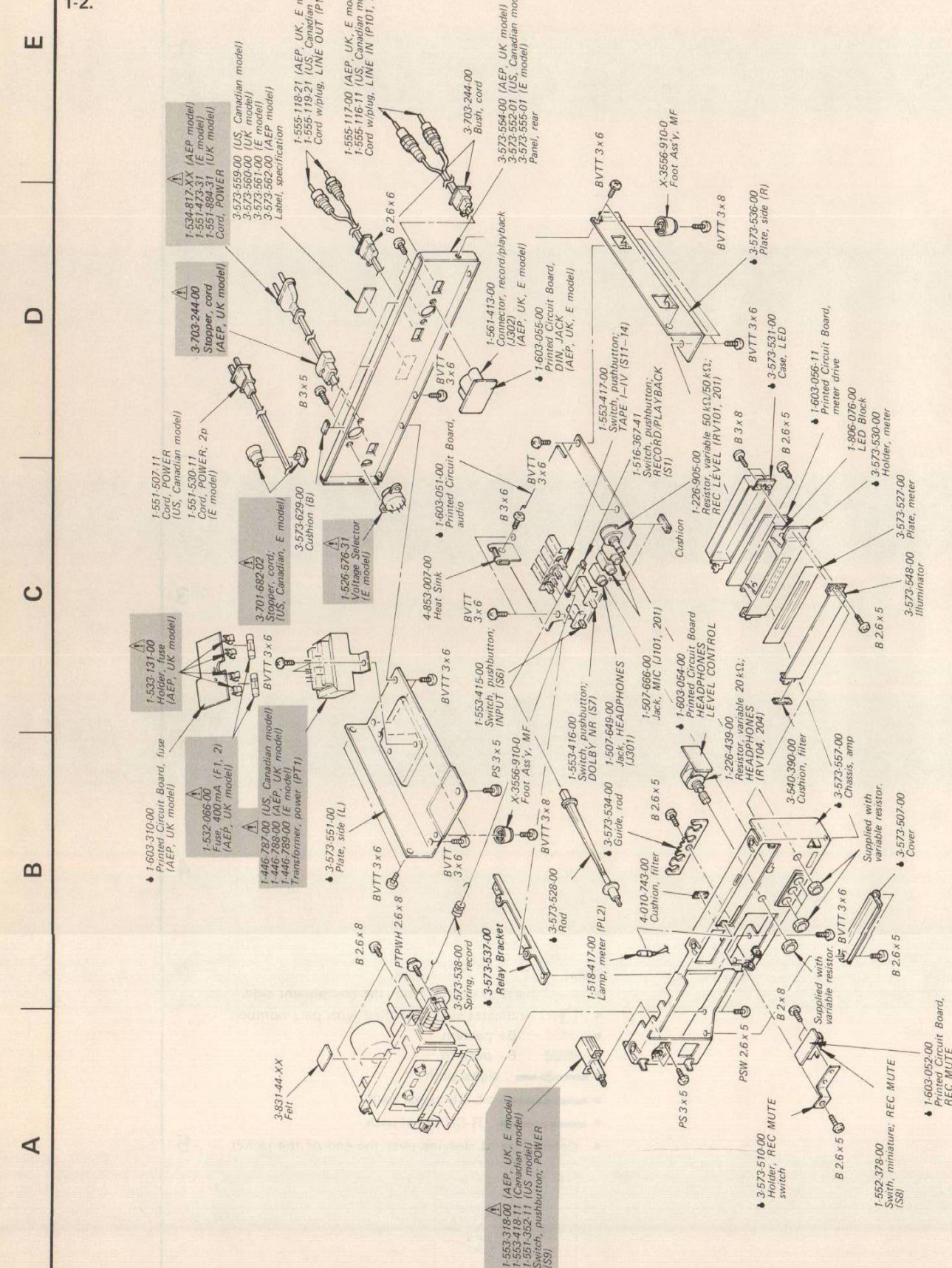
16 elements for each channel

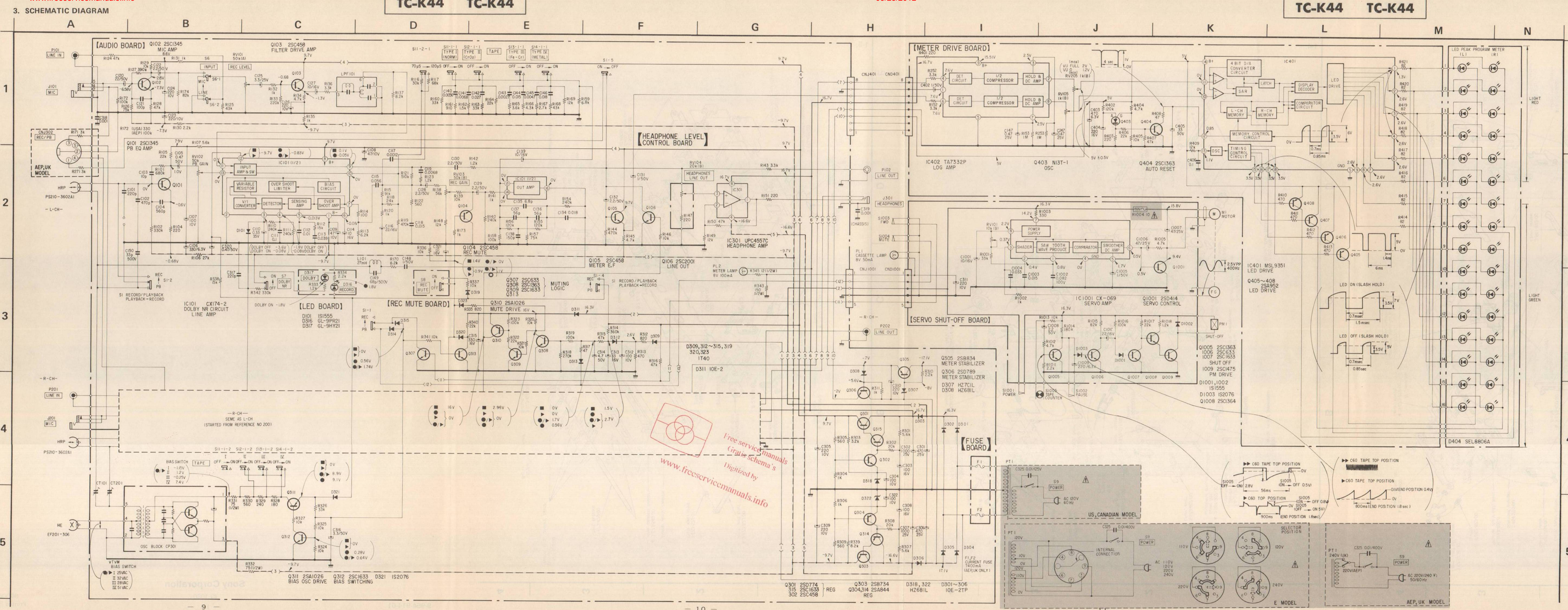
1. EXPLODED VIEWS (Continued on pages 13-15)

1-1.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

1-2.





Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

- Note:
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
 - All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
 - : fusible resistor.
 - : panel designation.
 - : B+ bus.
 - : B- bus.
 - Readings are taken under no-signal conditions with a VOM (20k Ω /V).
 - AC voltage readings in the bias oscillator with a VTVM.

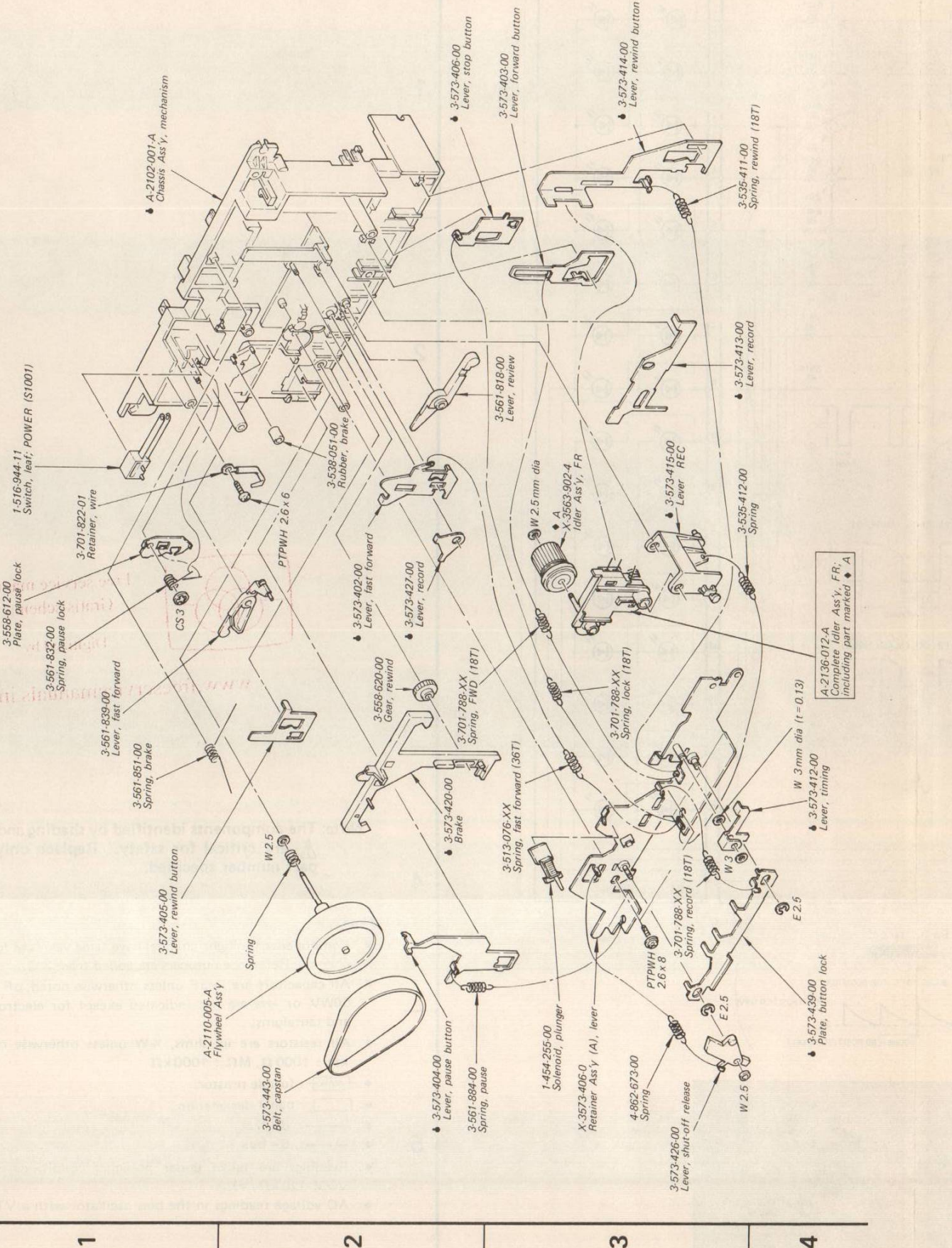
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1. EXPLODED VIEWS (Continued from page 4)

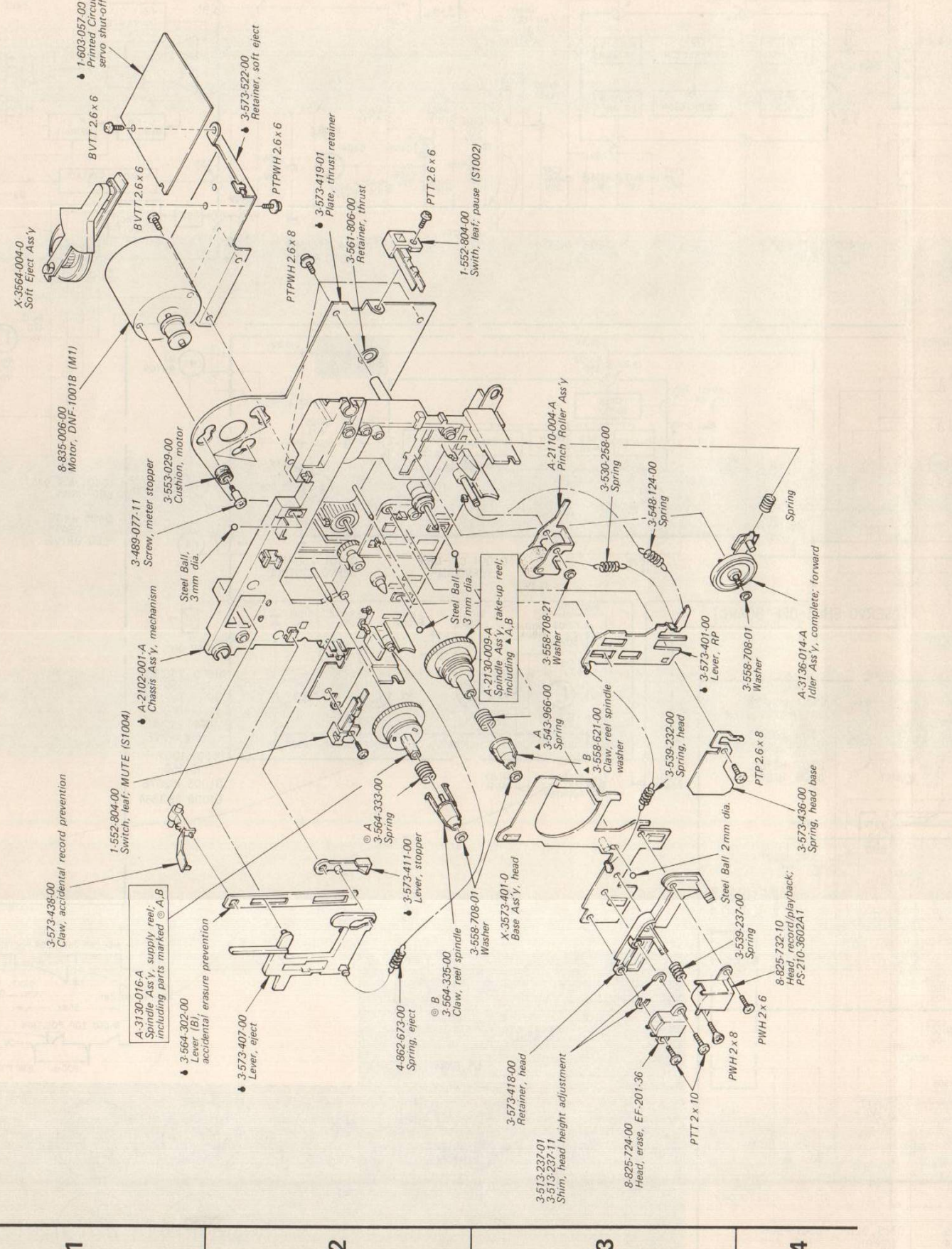
1-3.

E
D
C
B
A
1
2
3
4



1-4.

E
D
C
B
A
1
2
3
4



1-5.

E
D
C
B
A
1
2
3
4

