

TPS-L2



*US Model
Canadian Model
AEP Model
UK Model
E Model*

REVISED

Discard TPS-L2 SERVICE MANUAL
(No. 9-954-823-11) previously issued.

STEREO CASSETTE PLAYER

SPECIFICATIONS

• Model Identification

former model

US: Serial No. Up to 106000
Canadian: Serial No. Up to 207500
AEP: Serial No. Up to 108500
UK: Serial No. Up to 117500
E: Serial No. Up to 118500

new model

US: Serial No. 106001 and later
Canadian: Serial No. 207501 and later
AEP: Serial No. 108501 and later
UK: Serial No. 117501 and later
E: Serial No. 118501 and later

Tape Track: 4-track 2-channel stereo

Fast Winding Time: Approx. 2 min. 30 sec. with Sony
Cassette C-60

Frequency Response: 40 – 12,000 Hz

Power Output: 20 mW x 2 (max.)
15 mW x 2 (at 10 % harmonic distortion)
with headphones having impedance of
35 Ω at dc operation

Outputs: Two headphone jacks (stereo minijacks)
rated output 0.04 V (-26 dB) at load
impedance 8 Ω
load impedance 8 Ω or higher, and
300 Ω or lower

Power Requirements: 3 V dc, two batteries, IEC designation
R6 (size AA),
or optional Sony BP-33 Rechargeable
Battery Pack

– Continued on page 2 –



SONY

SERVICE MANUAL

country	ac power line voltage	optional ac power adaptor
U.S.A. and Canada	120 V ac, 60 Hz	AC-31 available in U.S.A. and Canada
the United Kingdom	220/240 V ac, 50 Hz	AC-35 available in the United Kingdom
European countries	220 V ac, 50 Hz	AC-35 available in European countries
other countries	120 V ac (110, 220 or 240 V ac, adjustable by Sony personnel), 50/60 Hz	AC-32 available in Japan
	110, 120, 220 or 240 V ac, adjustable, 50/60 Hz	AC-32 available in other countries

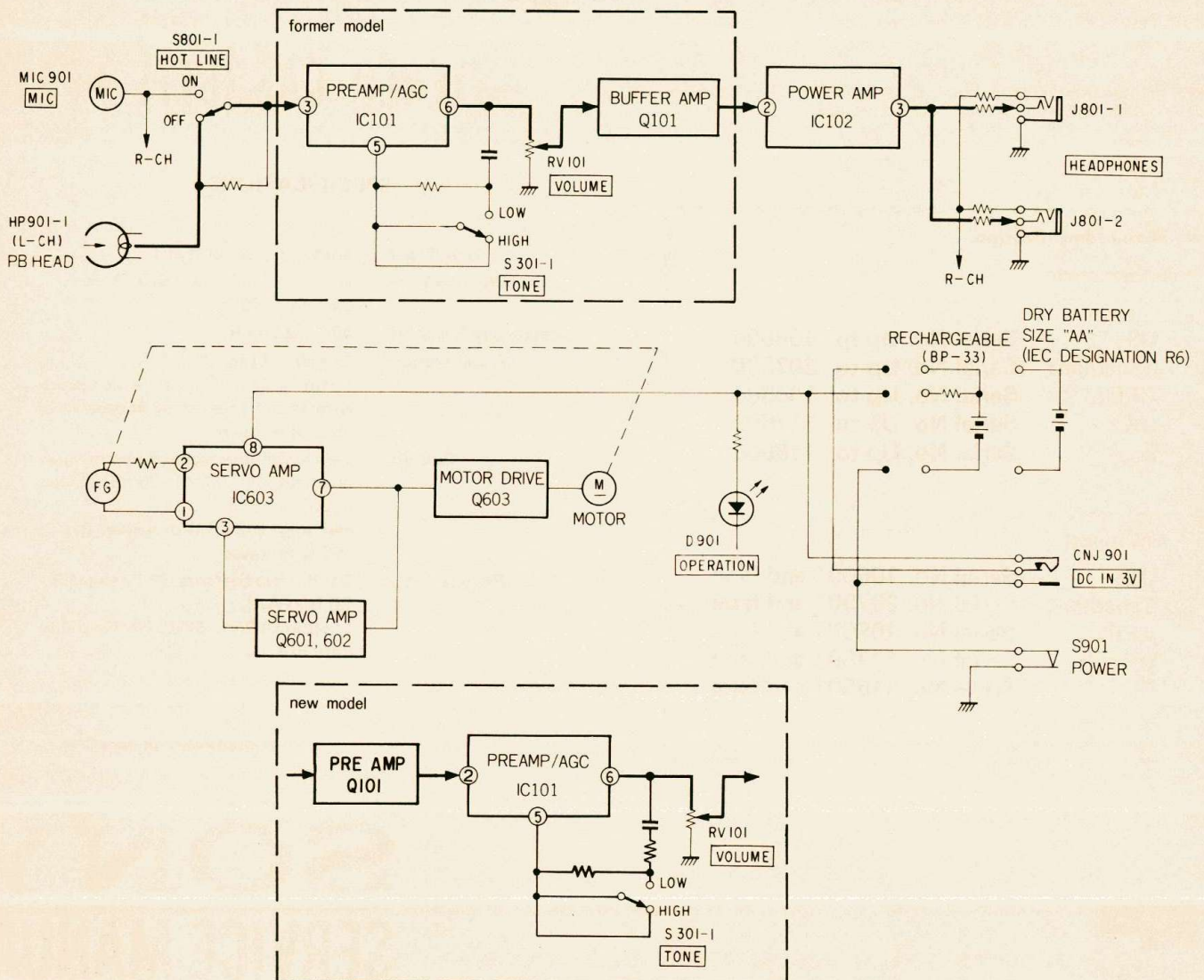
12 V car battery with optional Sony DCC-127A Car Battery Cord

Battery Life: Continuous playback hours:
 Approx. 2.5 hours with Sony SUM-3 (S) Super Batteries
 Approx. 3.5 hours with Eveready No. 1215 Heavy Duty Batteries
 Approx. 8 hours with Eveready No. E91 Alkaline Batteries (Sony Eveready AM3 Alkaline Batteries).

Dimensions: Approx. 88 (w) x 133.5 (h) x 29 (d) mm
 (3 1/2 (w) x 5 5/16 (h) x 1 3/16 inches)
 not including projecting parts and controls

Weight: Approx. 390 g (13 7/8 oz)
 including batteries

SECTION 1 BLOCK DIAGRAM

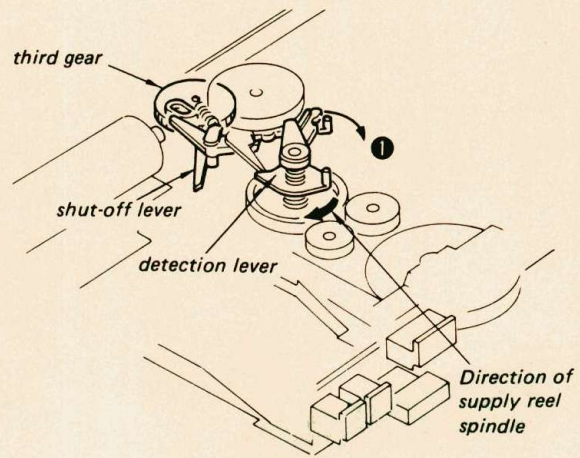


SECTION 2 OPERATION DESCRIPTION

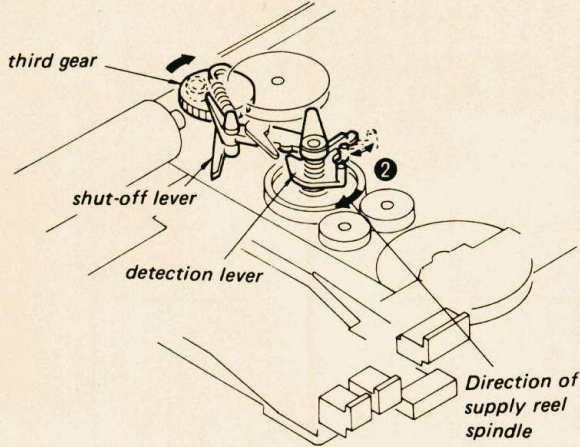
AUTOMATIC SHUT-OFF MECHANISM

• **During FWD (or RECORD) operation**

While the supply reel is rotating, the detection lever is always pulled in direction ①



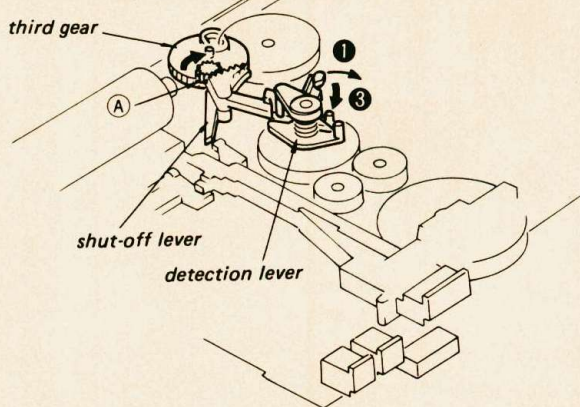
The shut-off lever is repeating the ② motion owing to the third gear rotation.



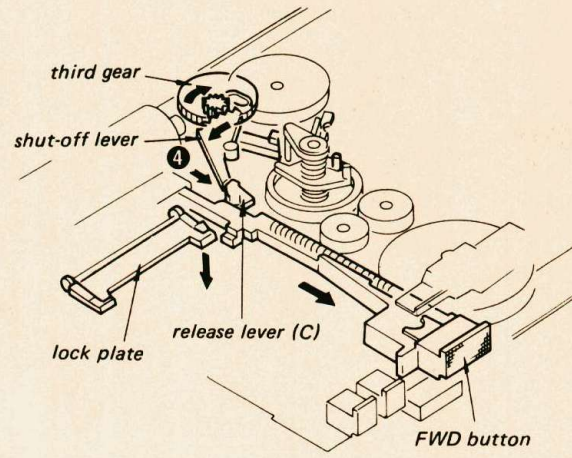
• **When the supply reel spindle stops: (end of the tape)**

The detection lever is not pulled in direction ① but moves in direction ③ owing to the third gear rotation.

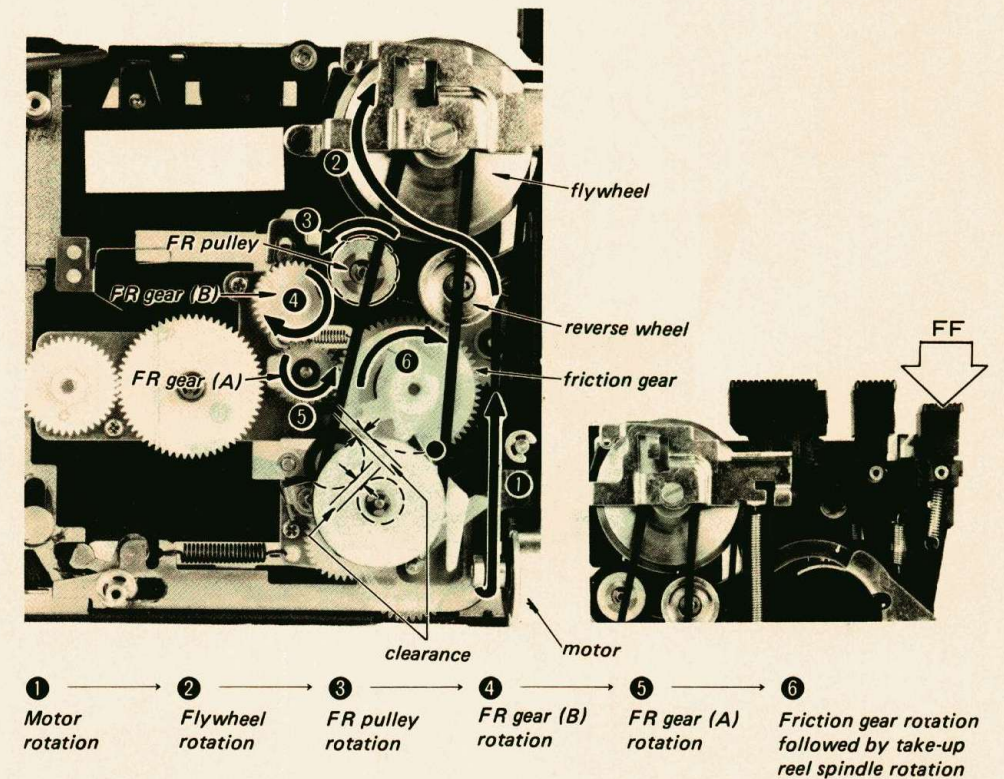
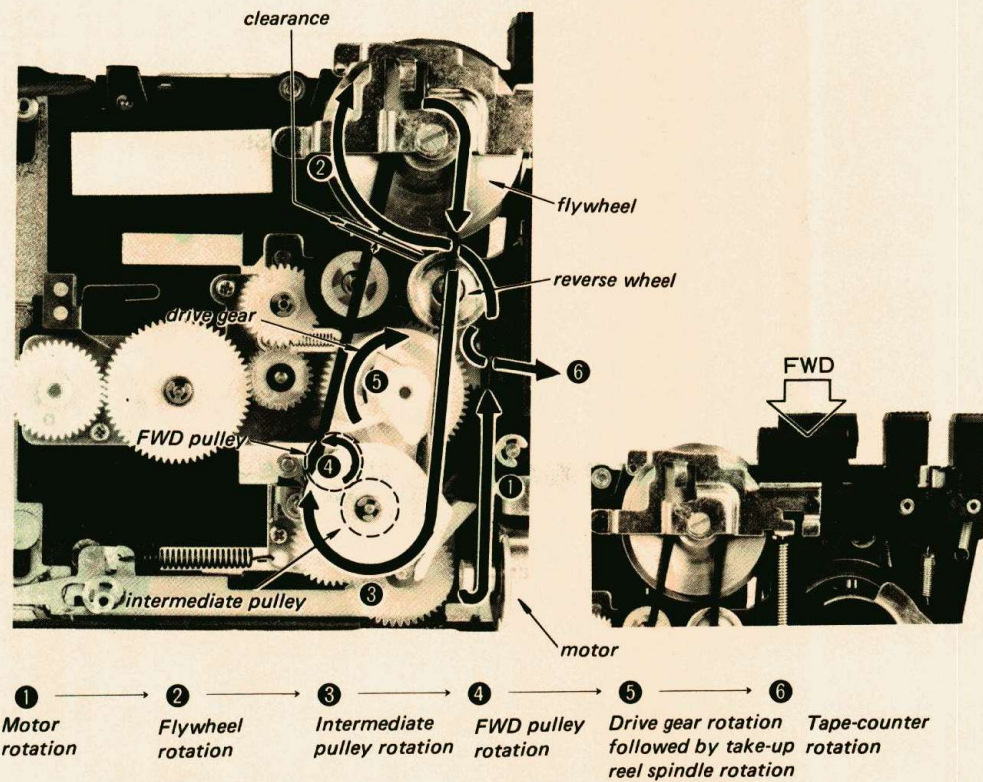
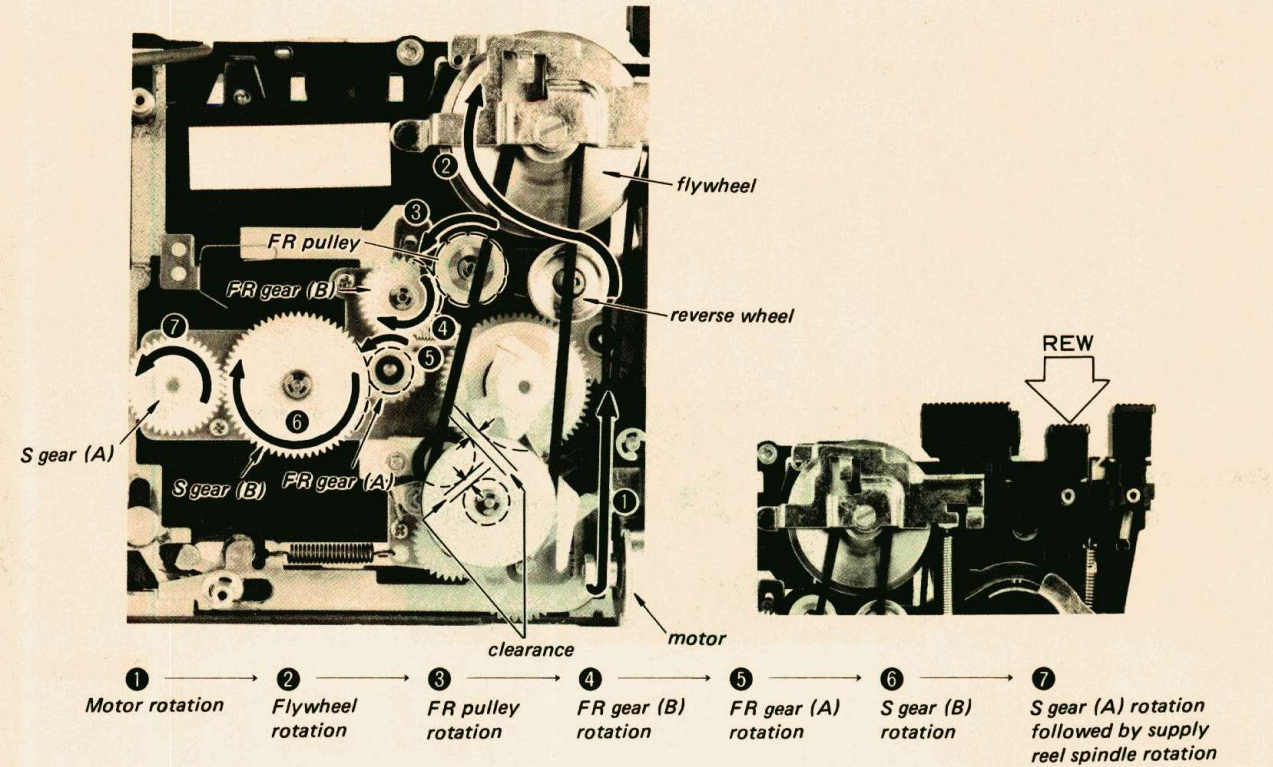
The teeth of the shut-off lever mesh with the teeth of the third gear.



As the third gear turns further, the shut-off lever moves in direction ④, pushing the release lever (c) and releasing the FWD button. (RECORD button and FWD button are released in RECORD mode.)



DIRECTION OF ROTATION

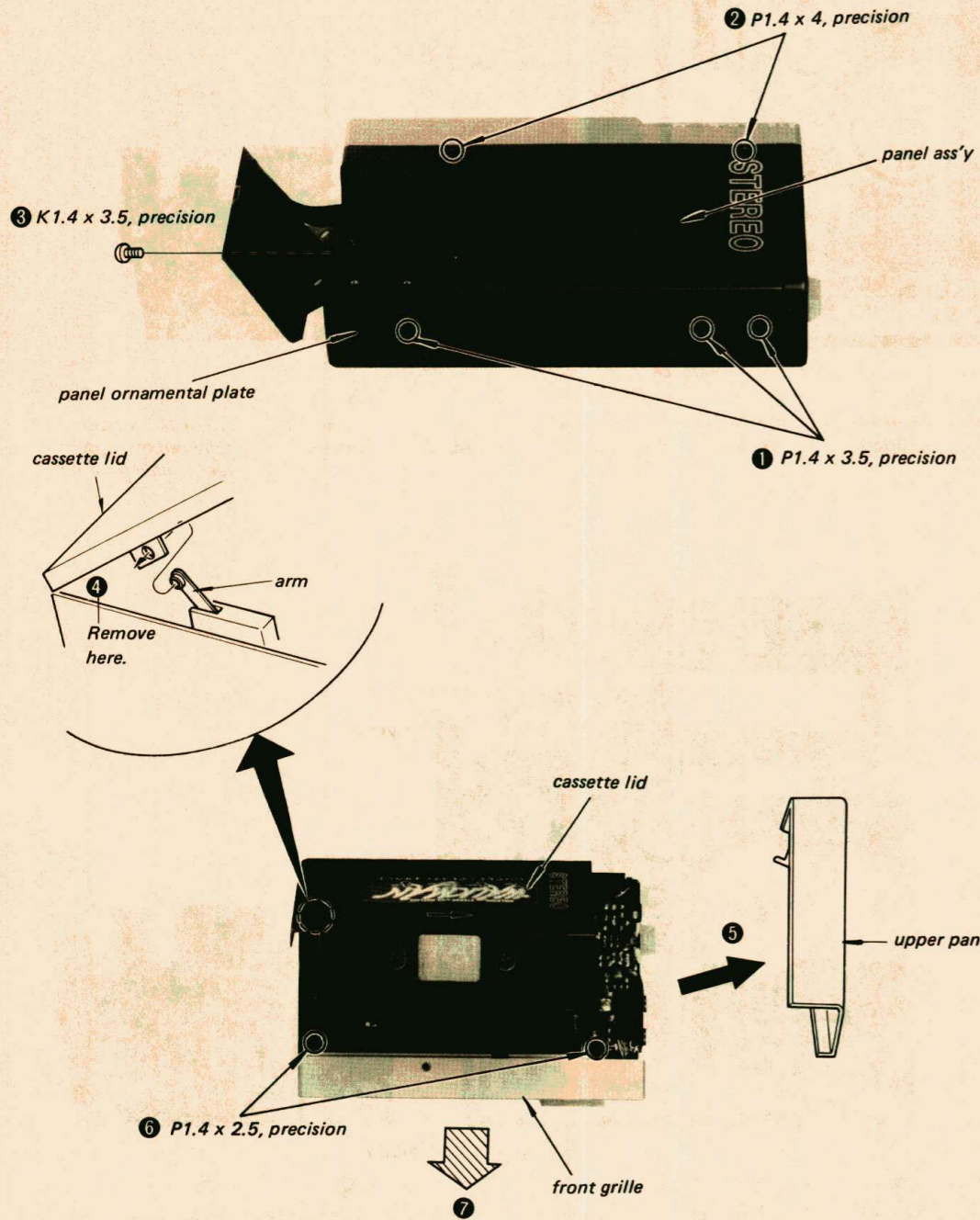


SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

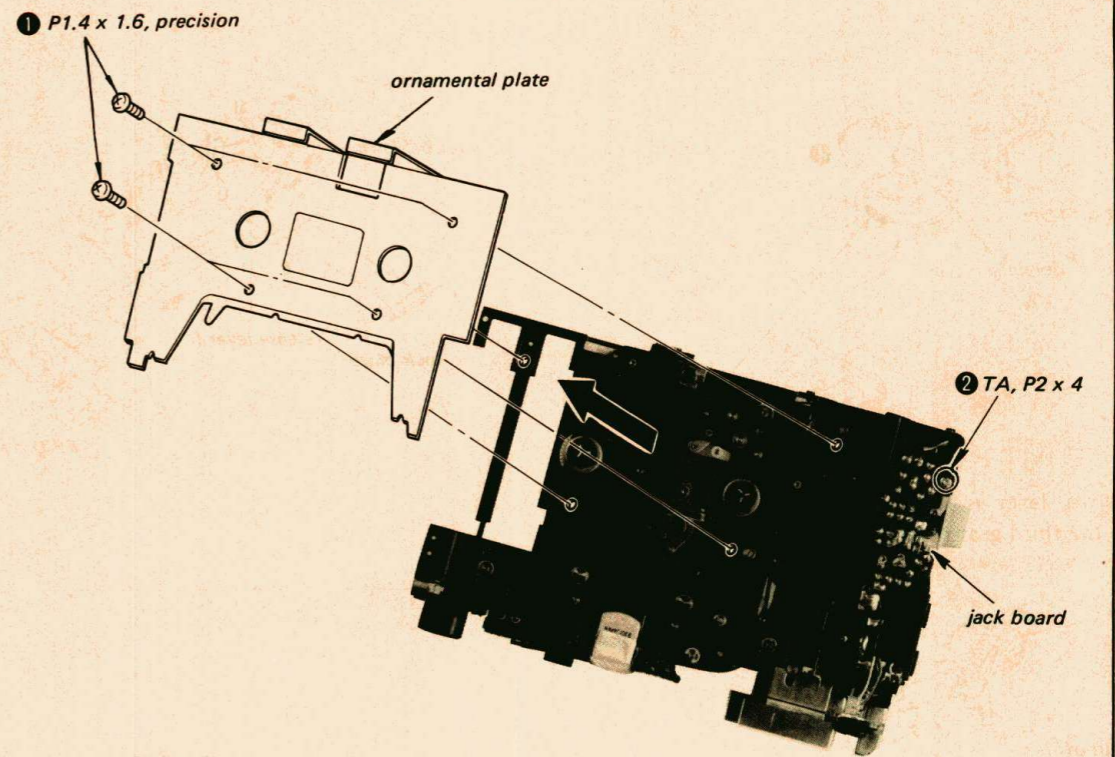
PANEL ORNAMENTAL PLATE/PANEL ASS'Y/UPPER PANEL/FRONT GRILLE ASS'Y

- Panel Ornamental Plate : ①
- Panel Ass'y : ②~④
- Upper Panel : ⑤
- Front Grille Ass'y : ⑥, ⑦



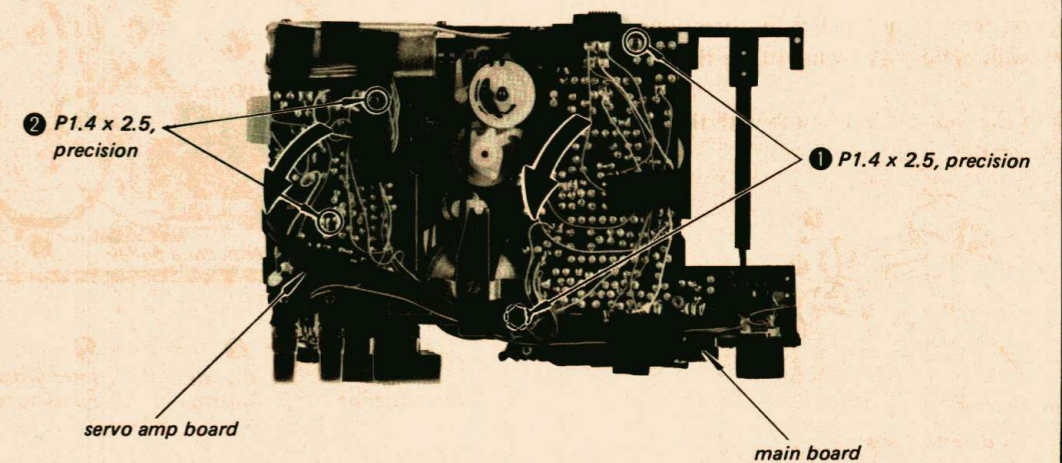
ORNAMENTAL PLATE/JACK BOARD

- Ornamental Plate : ①
- Jack Board : ②




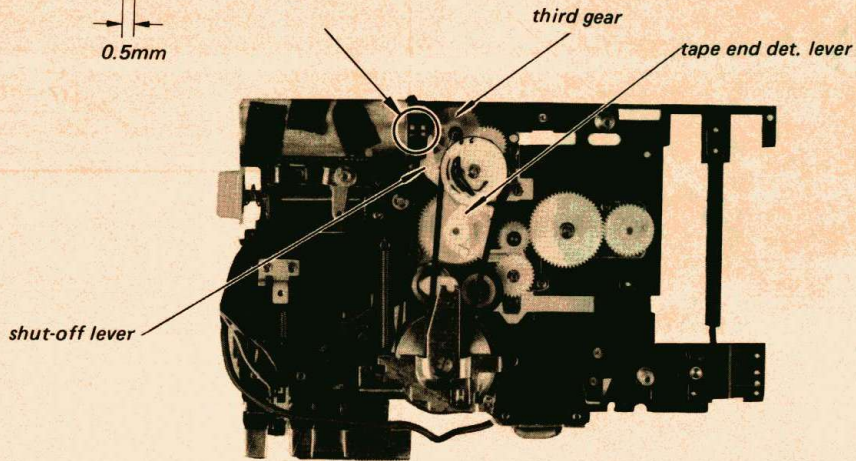
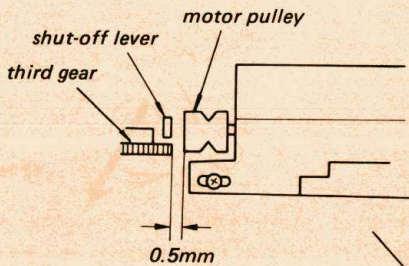
MAIN BOARD/SERVO AMP BOARD

- Main Board : ①
- Servo Amp Board : ②



CAUTION WHEN INSTALLING MOTOR

Make sure part marked  is just 0.5mm long. Otherwise, auto-shut-off mechanism may operate before end of tape.



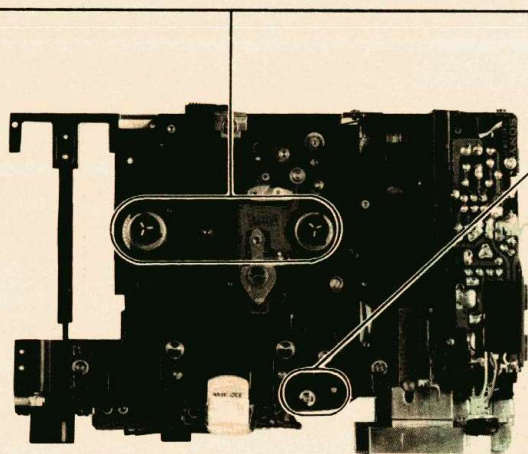
SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

Torque Measurement

Power Supply Voltage: 2.5V dc

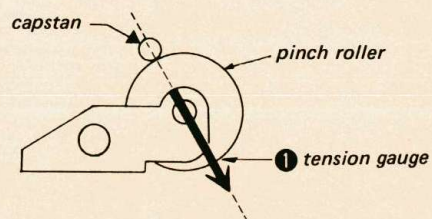
	SONY torque meter	Meter reading
FWD	CQ-102	22.5 – 45g-cm
FF, REW CUE, REV	CQ-201	55g-cm or more
Back tension	CQ-102	2 – 3.5g-cm



Pinch Roller Pressure Measurement

Mode: playback

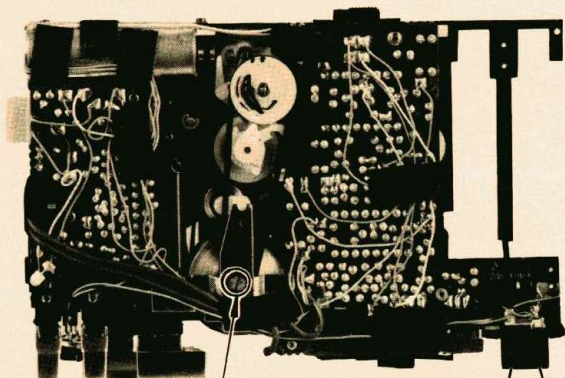
- Slowly return the pinch roller and read the tension gauge just when the pinch roller starts rotating.



200 – 300g
(7 – 10.6 oz)

Flywheel Thrust Play Adjustment

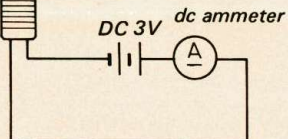
– Playback Mode –



thrust screw

- Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
- Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
- Then, turn the thrust screw counterclockwise about $\frac{1}{4}$ turn from the position obtained in step 2.
- Secure the thrust screw with locking compound.

DC IN
3V



4-2. ELECTRICAL ADJUSTMENTS

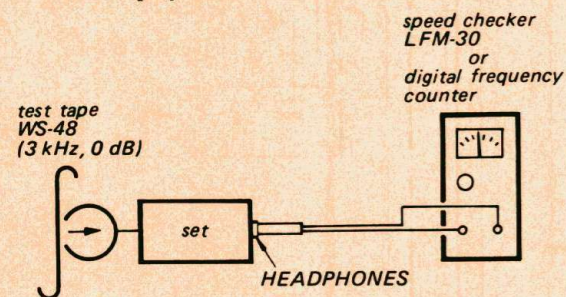
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback

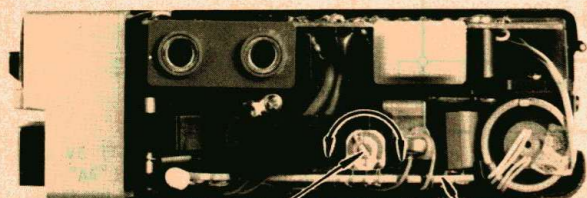


Specification:

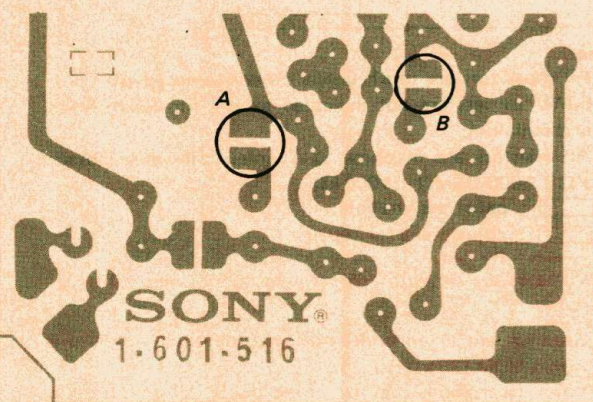
Speed checker	Digital frequency counter
± 2%	2,940 – 3,060Hz

- 1) Connect the patterns marked "A" before this adjustment.
- 2) When adjustment is impossible by turning RV601, connect the patterns marked "B".

Adjustment Location:



RV601 Servo Amp Board

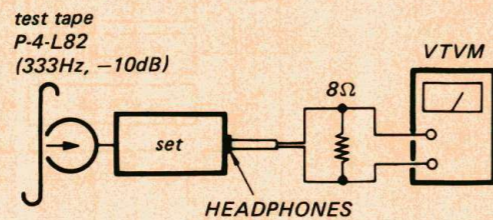


Playback Level Adjustment

Setting:

VOLUME: maximum

Procedure:

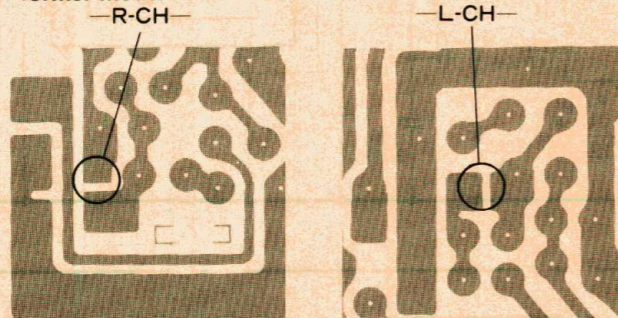


Specification:

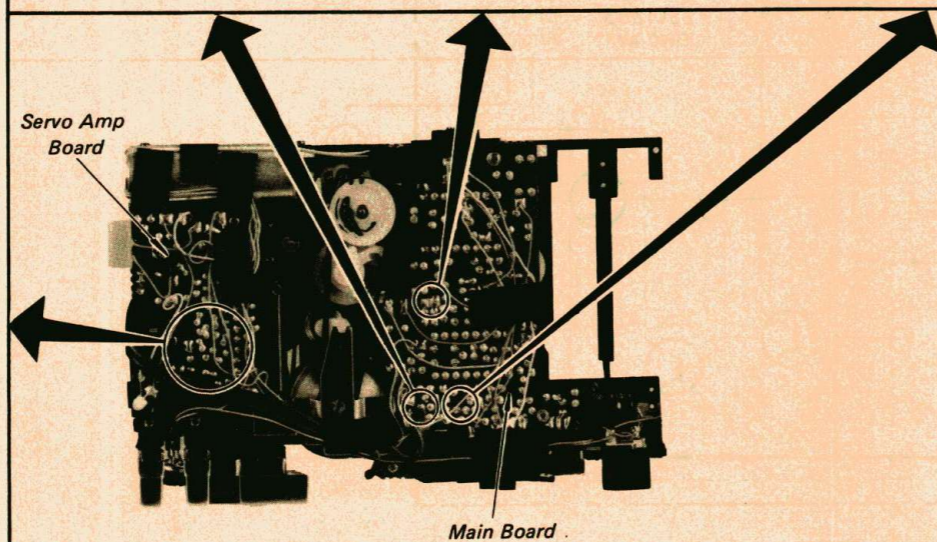
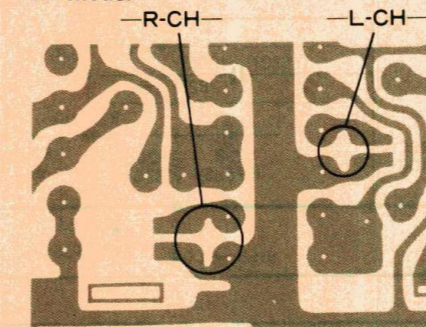
Level difference between channels:
less than 3dB

- 1) In case the specification is not met, connect the patterns of channel indicating higher level.
- 2) Check that the HEADPHONES levels do not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:
former model



new model



Servo Amp Board

Main Board

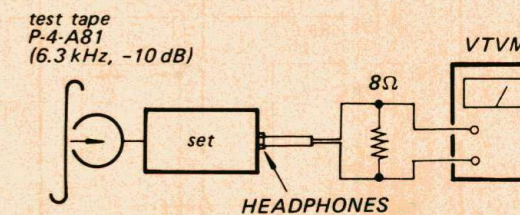
Playback Head Azimuth Adjustment

Setting:

VOLUME control: mechanical mid

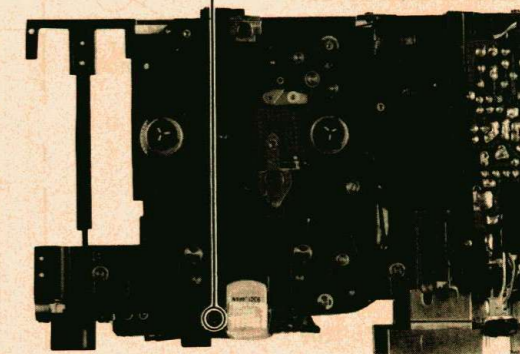
Procedure:

1. Mode: playback

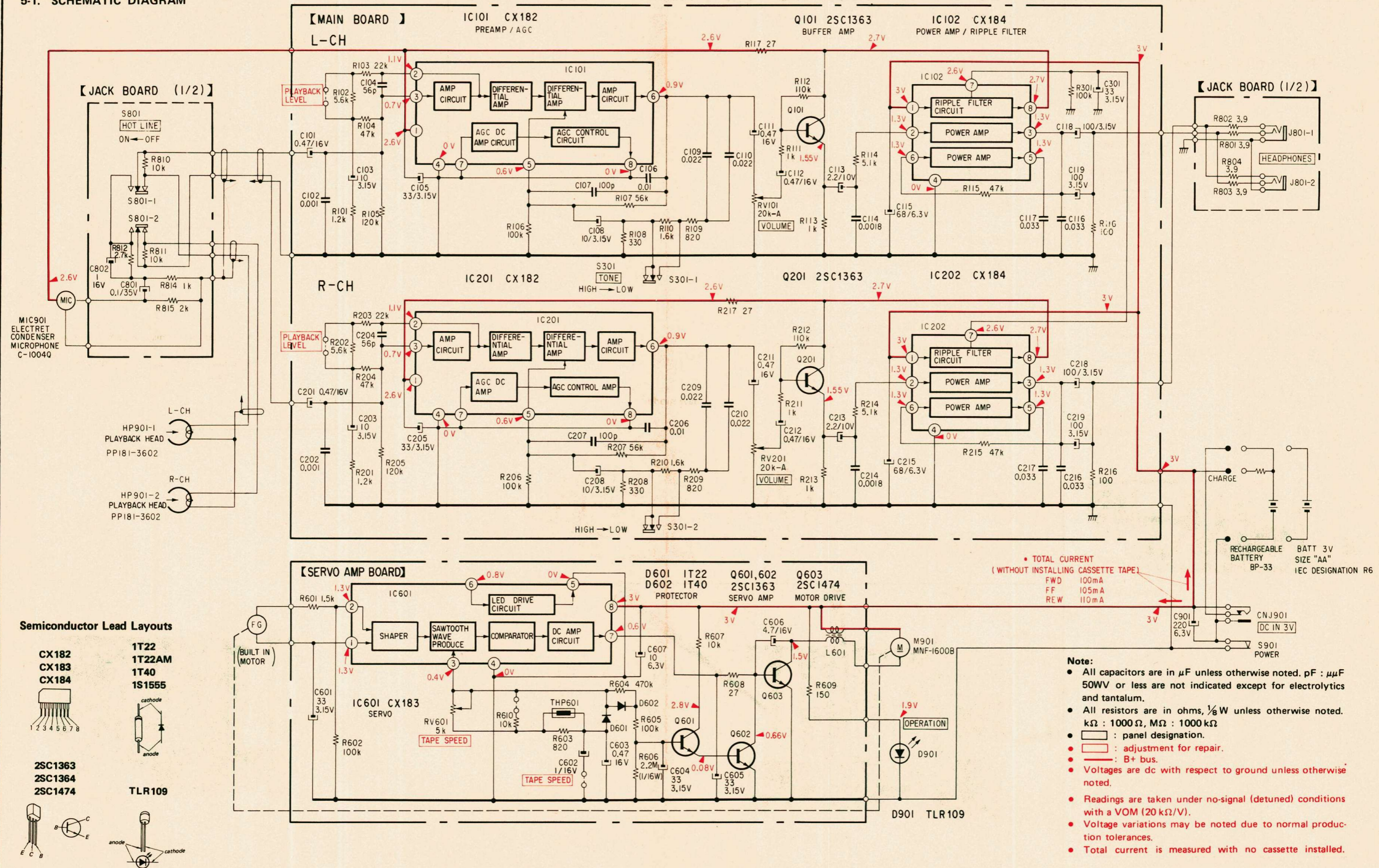


2. Turn the adjustment screw for maximum VTVM reading.

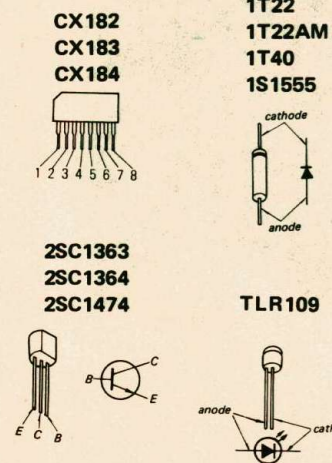
- Note:**
- Several peaks may appear, but take the maximum.
 - Finish turning the adjustment screw clockwise direction.



5-1. SCHEMATIC DIAGRAM



Semiconductor Lead Layouts



• TOTAL CURRENT (WITHOUT INSTALLING CASSETTE TAPE)

FWD	100mA
FF	105mA
REW	110mA

- Note:**
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalum.
 - All resistors are in ohms, $\frac{1}{8}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 - : panel designation.
 - : adjustment for repair.
 - — : B+ bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under no-signal (detuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
 - Voltage variations may be noted due to normal production tolerances.
 - Total current is measured with no cassette installed.

US: Serial No. Up to 106000
 Canadian: Serial No. Up to 207500
 AEP: Serial No. Up to 108500

UK: Serial No. Up to 117500
 E: Serial No. Up to 118500

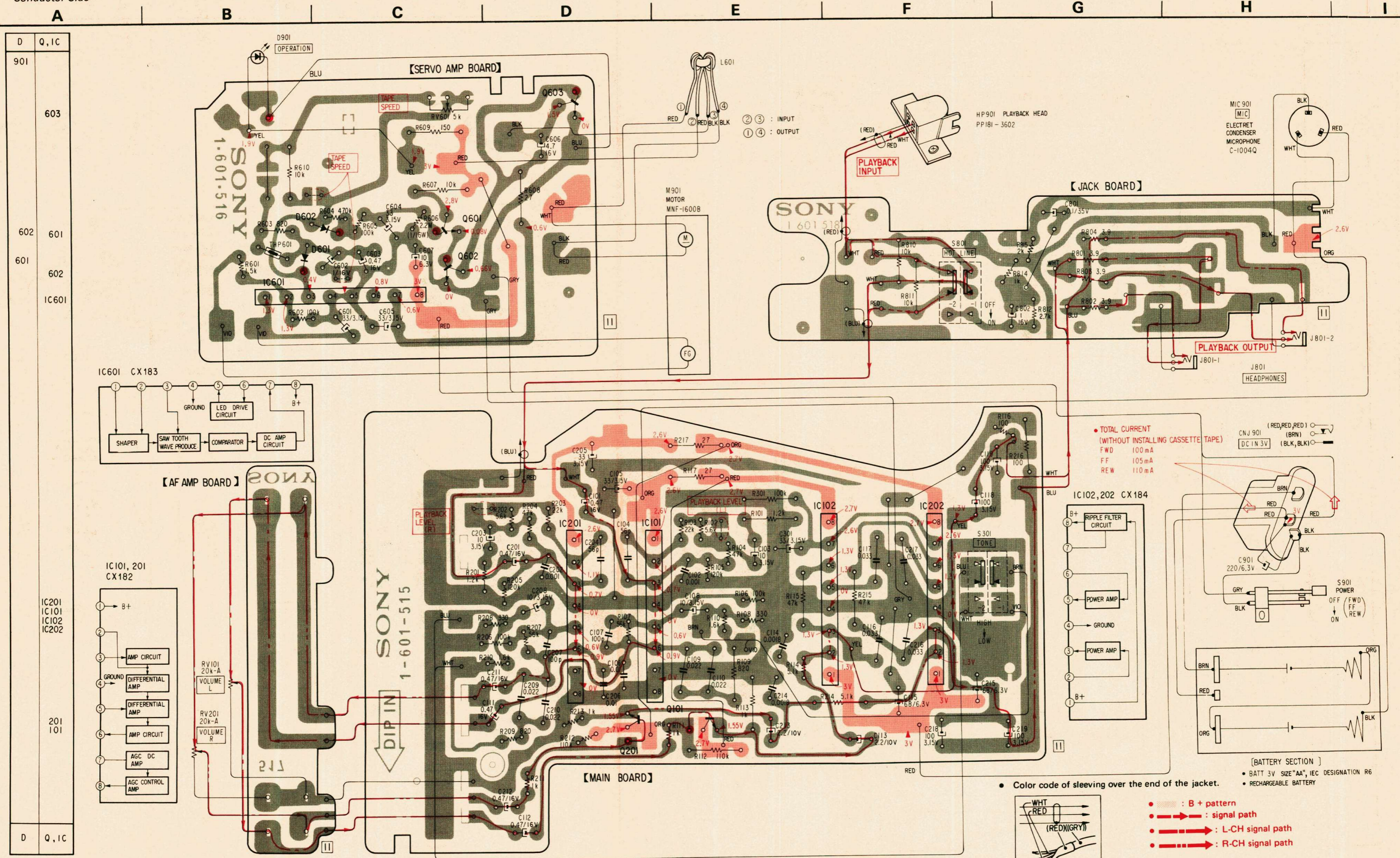
TPS-L2 TPS-L2

US: Serial No. Up to 106000
 Canadian: Serial No. Up to 207500
 AEP: Serial No. Up to 108500

UK: Serial No. Up to 117500
 E: Serial No. Up to 118500

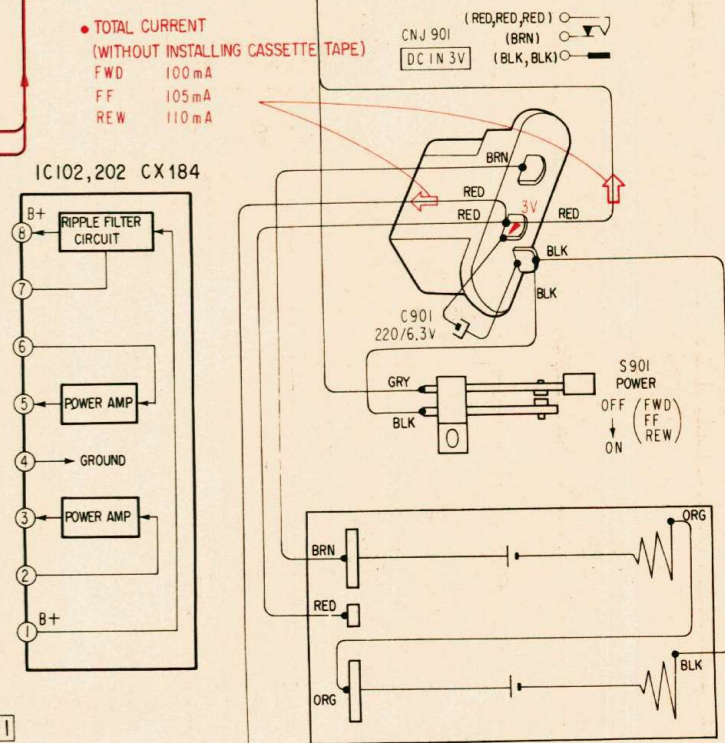
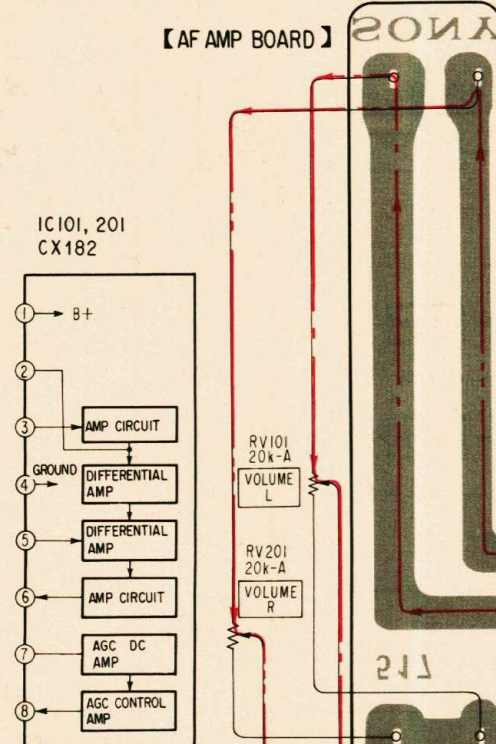
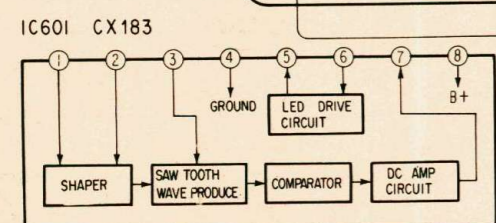
TPS-L2

5-2. MOUNTING DIAGRAM
 - Conductor Side -



1
2
3
4
5

D	Q, IC
901	
603	
601	
602	
601	
IC601	
IC601	
IC601	
IC201	
IC101	
IC102	
IC202	
201	
101	
D	Q, IC



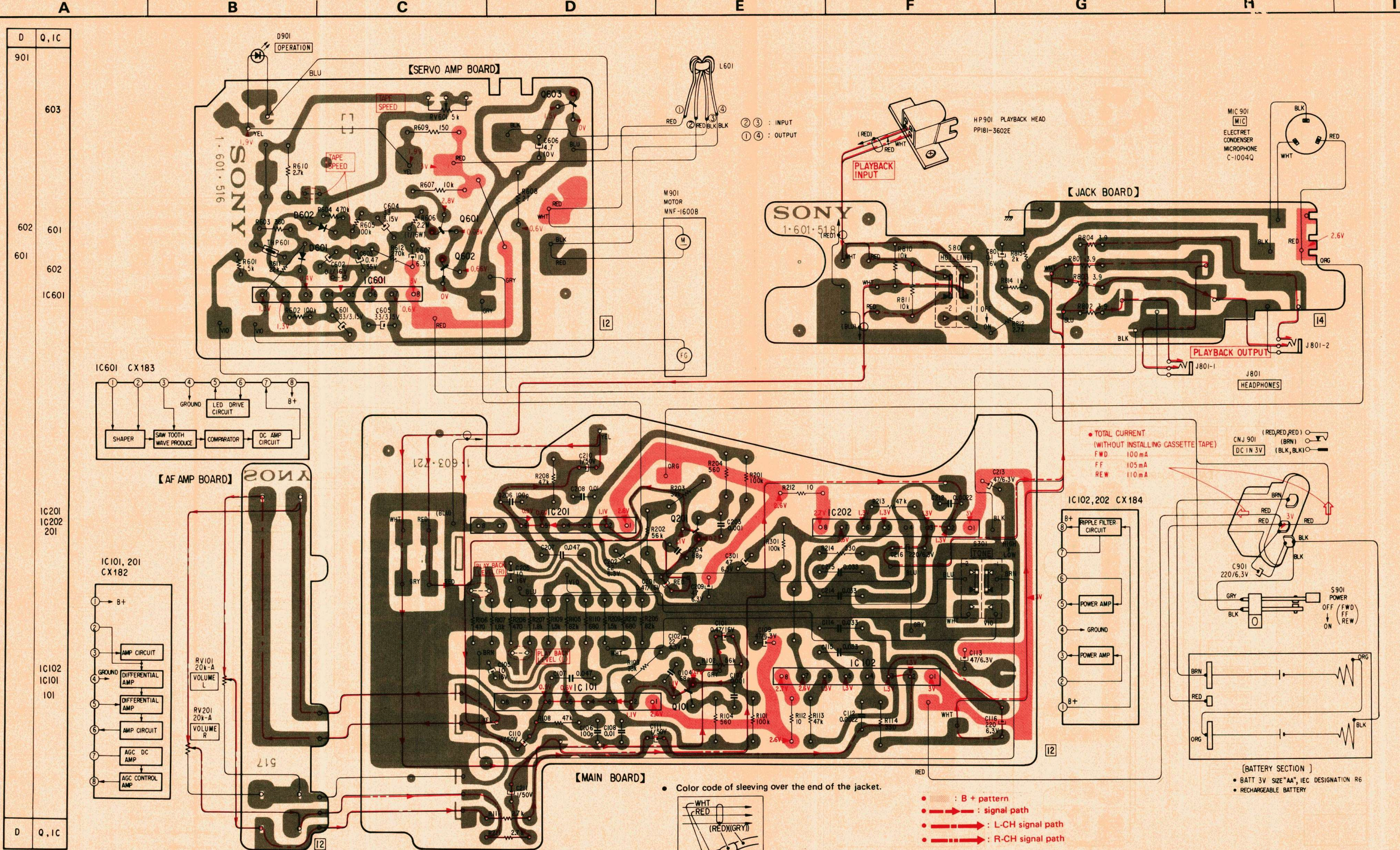
US: Serial No. 106001 and later
Canadian: Serial No. 207501 and later
AEP: Serial No. 108501 and later

UK: Serial No. 117501 and later
E: Serial No. 118501 and later

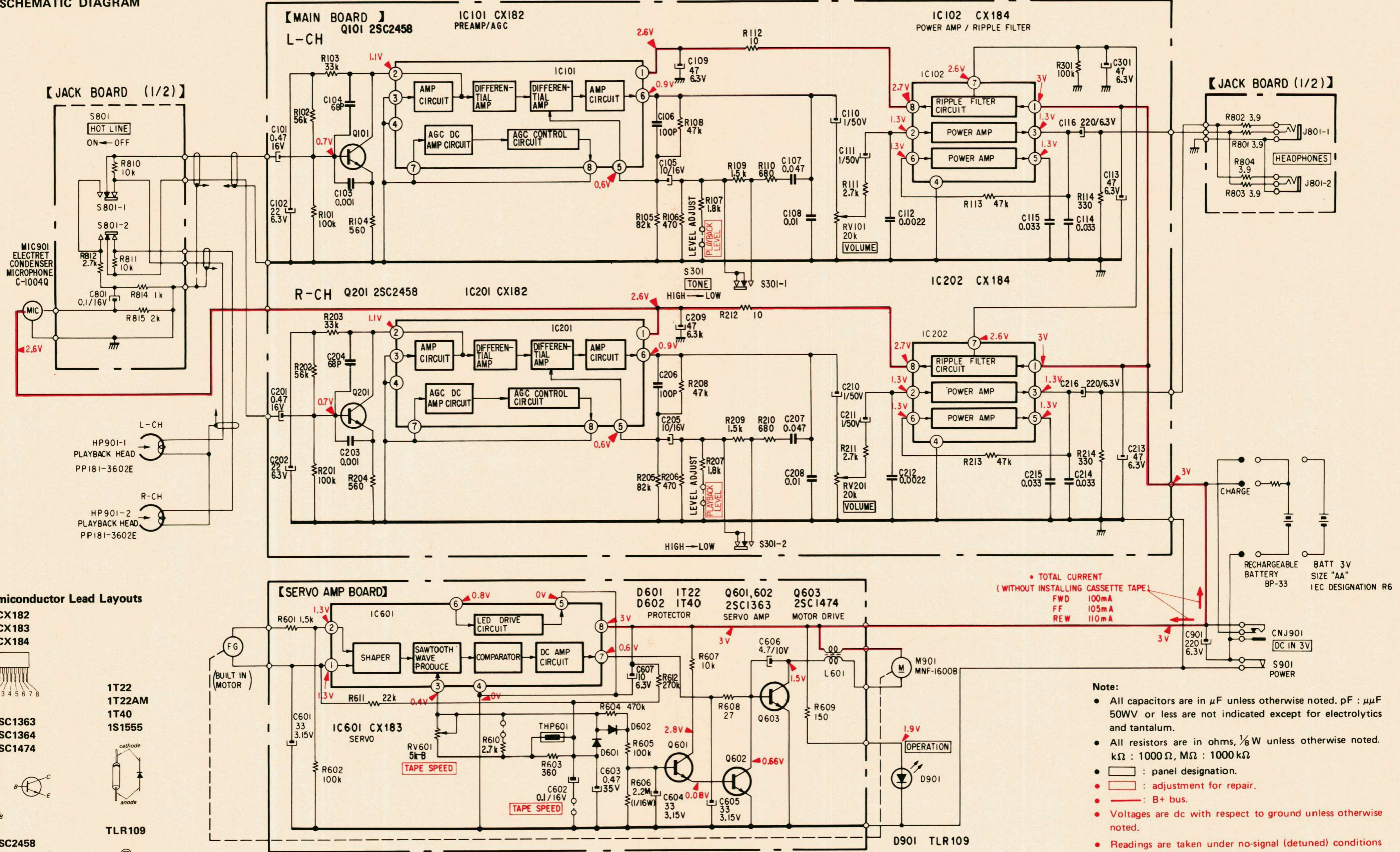
US: Serial No. 106001 and later
Canadian: Serial No. 207501 and later
AEP: Serial No. 108501 and later

UK: Serial No. 117501 and later
E: Serial No. 118501 and later

5-3. MOUNTING DIAGRAM

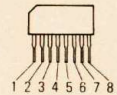


5-4. SCHEMATIC DIAGRAM

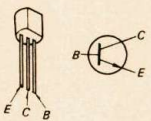


Semiconductor Lead Layouts

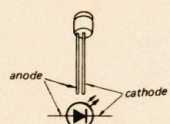
CX182
CX183
CX184



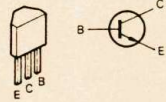
1T22
1T22AM
1T40
1S1555



TLR109



2SC2458

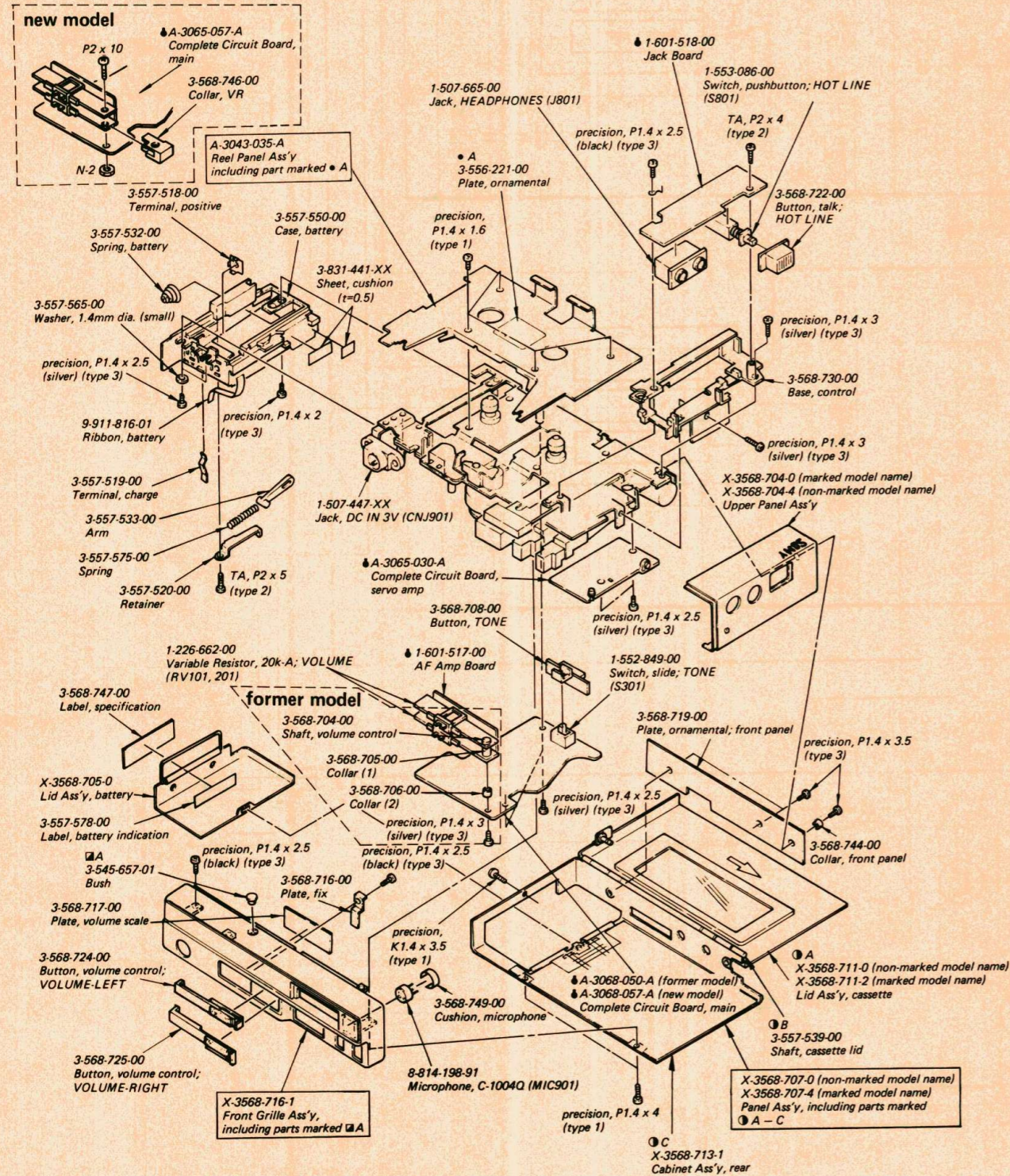


- Note:**
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalum.
 - All resistors are in ohms, $\frac{1}{8}$ W unless otherwise noted. $\text{k}\Omega : 1000 \Omega$, $\text{M}\Omega : 1000 \text{k}\Omega$
 - : panel designation.
 - : adjustment for repair.
 - — : B+ bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under no-signal (detuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
 - Voltage variations may be noted due to normal production tolerances.
 - Total current is measured with no cassette installed.

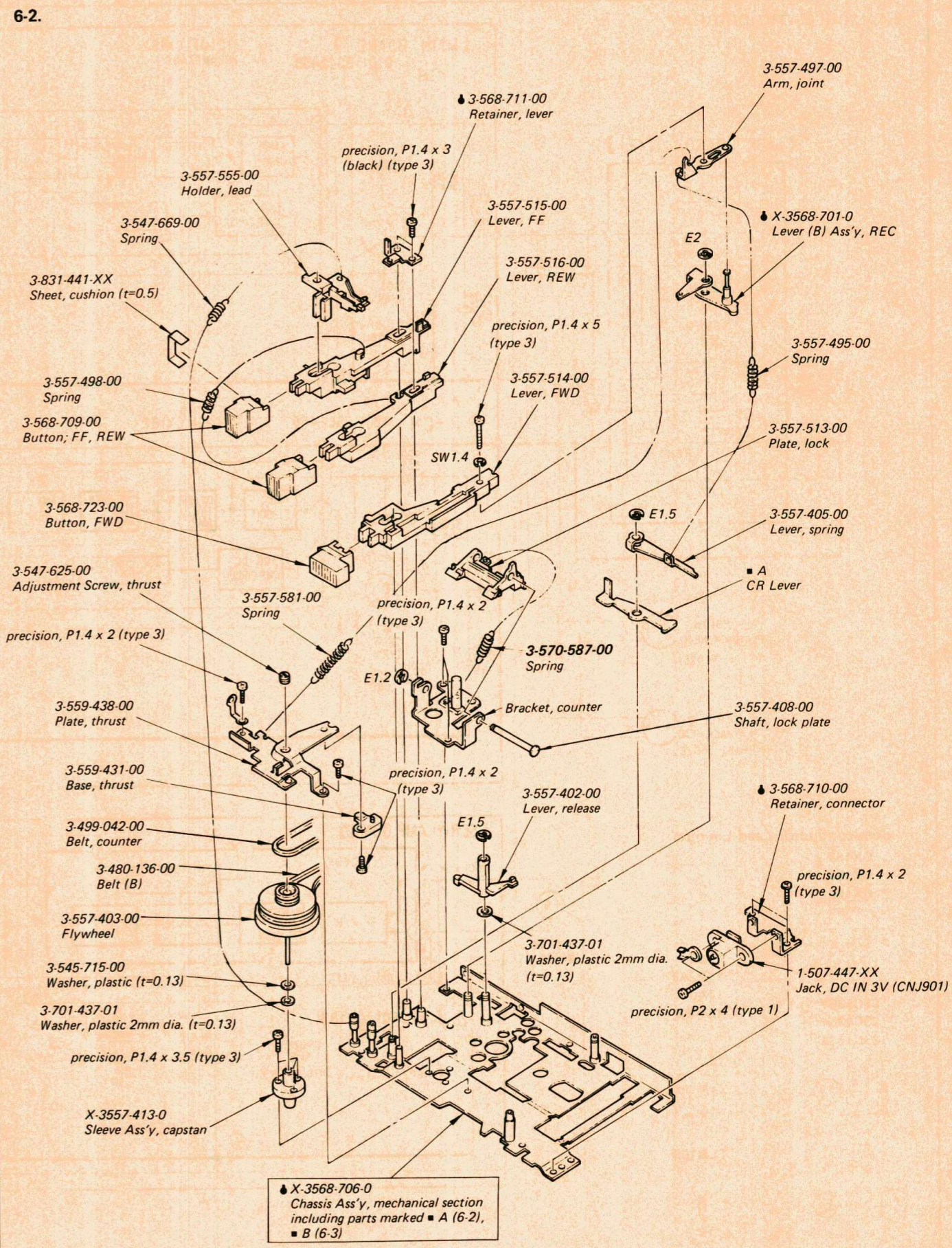
SECTION 6
EXPLODED VIEWS

A B C D

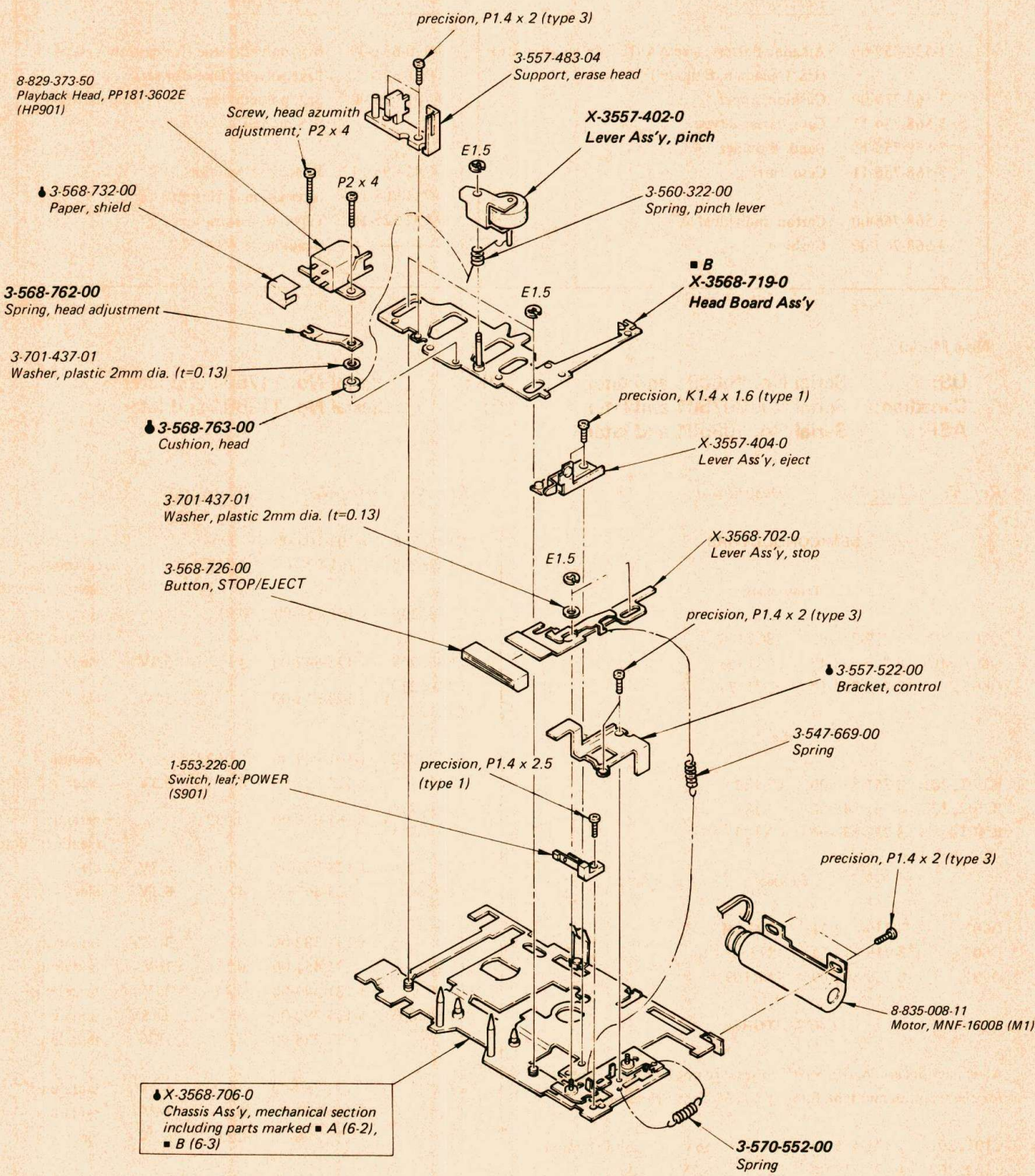
- 6-1. Note:
- Items marked "H" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - All screws are Phillips (cross recess) type unless otherwise noted. (-) = slotted head
 - Refer to page 26 for dimensions and part No. of precision screws.



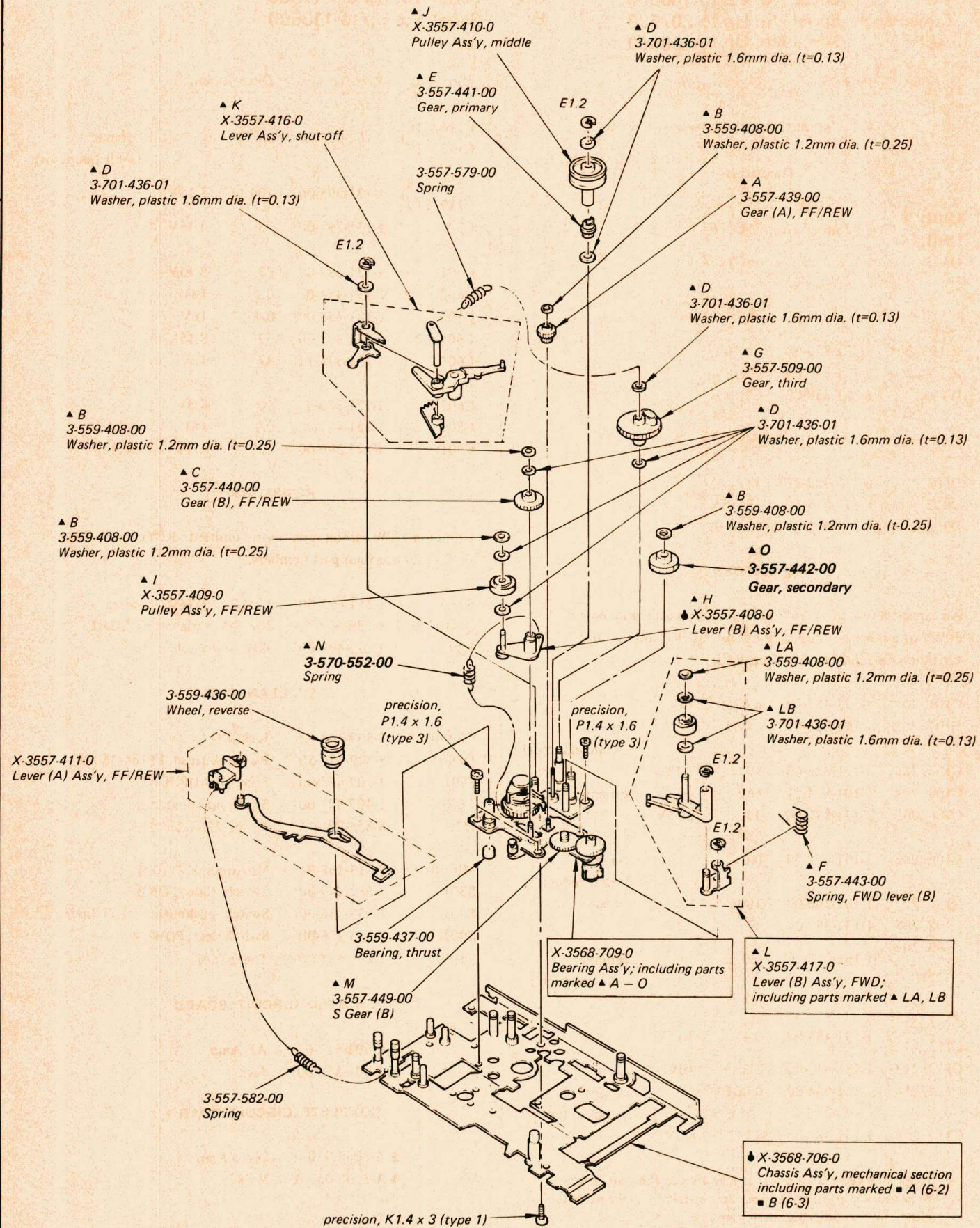
A B C D



6-3.



6-4.



SECTION 7
ELECTRICAL PARTS LIST

Former Model

US : Serial No. Up to 106000
Canadian : Serial No. Up to 207500
AEP : Serial No. Up to 108500

UK : Serial No. Up to 117500
E : Serial No. Up to 118500

Ref. No.	Part No.	Description
SEMICONDUCTORS		
Transistors		
Q101, 201 Q601, 602 Q603	8-729-663-47 8-760-335-10	2SC1364 2SC1474
ICs		
IC101, 201 IC102, 202 IC601	8-751-820-00 8-751-840-00 8-751-830-02	CX182 CX184 CX183
Diodes		
D601 D602 D901	8-719-422-21 8-719-815-55 8-719-801-09	1T22AM 1S1555 TLR109
CAPACITORS		
All capacitors are in μ F and tantalum unless otherwise noted. 50WV or less are not indicated except for electrolytics or tantalums. p : μ F, elect : electrolytic		
C101, 201 C102, 202 C103, 203 C104, 204 C105, 205 C106, 206 C107, 207 C108, 208 C109, 209 C110, 210 C111, 211 C112, 212 C113, 213 C114, 214 C115, 215	1-131-455-00 1-161-026-00 1-131-389-00 1-101-884-21 1-131-392-00 1-161-032-00 1-102-106-00 1-131-389-00 1-161-017-11 1-131-455-00 1-131-419-00 1-161-004-00 1-131-387-00	0.47 16V 0.001 ceramic (semiconductor) 10 3.15V 56p ceramic 33 3.15V 0.01 ceramic (semiconductor) 100p 50V ceramic 10 3.15V 0.022 ceramic (semiconductor) 0.47 3.15V 2.2 10V 0.0018 ceramic (semiconductor) 47 6.3V

• Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	Part No.	Description
C116, 216 C117, 217 C118, 218 C119, 219 C301 C601 C602 C603 C604, 605 C606 C607 C801 C901	1-161-035-00 1-131-395-00 1-131-392-00 1-131-451-00 1-131-455-00 1-131-392-00 1-131-375-11 1-131-383-00 1-131-451-00 1-123-296-00	0.033 ceramic (semiconductor) 100 3.15V 33 3.15V 0.1 16V 0.47 16V 33 3.15V 47 10V 10 6.3V 0.1 16V 220 6.3V elect

RESISTORS

Common 1/8W carbon resistors are omitted. Refer to the list on 25 page for their part numbers.

R606 RV101, 201 RV601	1-211-697-00 1-226-662-00 1-226-488-00	2.2M Ω 1/16W micro 20k Ω -A, variable; VOLUME 5k Ω , adjustable
-----------------------------	--	--

MISCELLANEOUS

CNJ901 HP901 J801 L601 M1 MIC901 S301 S801 S901 THP601	1-507-447-XX 8-829-373-50 1-507-665-00 1-407-847-00 8-835-008-11 8-814-198-91 1-552-849-00 1-553-086-00 1-553-226-00 1-800-535-00	Jack, DC IN 3V Playback Head, PP181-3602E Jack, HEADPHONES 35 μ H, microinductor Motor, MNF-1600B Microphone, C-1004Q Switch, slide; TONE Switch, pushbutton; HOT LINE Switch, leaf; POWER Thermistor
---	--	--

PRINTED CIRCUIT BOARD

• 1-601-517-00 • 1-601-518-00	AF Amp Jack
----------------------------------	----------------

COMPLETE CIRCUIT BOARD

• A-3065-030-A • A-3068-050-A	Servo Amp Main
----------------------------------	-------------------

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Part No.	Description
1-528-052-00	Alkaline Battery, size AA (IEC designation R6) (US, Canadian, E model)	3-570-631-00	Bag, polyethylene (for cassette-case)
3-568-739-00	Cushion, upper	3-701-622-00	Bag, polyethylene (for set)
3-568-754-11	Case, cassette-type	3-701-625-00	Bag, polyethylene (for printed matters) (US model)
3-568-755-11	Band, shoulder	3-783-008-14	Manual, instruction
3-568-756-11	Case, carrying	3-794-906-11	International Warranty Card
3-568-766-00	Carton, individual	8-893-525-10	Tape, demonstration
3-568-767-00	Cushion		Headphone, MDR3L2

New Model

US : Serial No. 106001 and later
Canadian : Serial No. 207501 and later
AEP : Serial No. 108501 and later

UK : Serial No. 117501 and later
E : Serial No. 118501 and later

Ref. No.	Part No.	Description
SEMICONDUCTORS		
Transistors		
Q101, 201 Q601, 602 Q603	8-729-245-83 8-729-663-47 8-760-335-10	2SC2458 2SC1364 2SC1474
ICs		
IC101, 201 IC102, 202 IC601	8-751-820-00 8-751-840-00 8-751-830-00	CX182 CX184 CX183
Diodes		
D601 D602 D901	8-719-422-21 8-719-815-55 8-719-801-09	1T22AM 1S1555 TLR109
CAPACITORS		
All capacitors are in μ F. 50WV or less are not indicated except for electrolytics and tantalums. p : μ F, elect : electrolytic		
C101, 201 C102, 202 C103, 203 C104, 204 C105, 205	1-131-455-00 1-123-618-00 1-101-001-00 1-101-888-00 1-123-617-00	0.47 16V solid aluminum 22 6.3V elect 0.001 ceramic 68p ceramic 10 16V elect

Ref. No.	Part No.	Description
C106, 206 C107, 207 C108, 208 C109, 209 C110, 210 C111, 211 C112, 212 C113, 213 C114, 214 C115, 215 C116, 216 C301 C601 C602 C603 C604, 605 C606 C607 C801 C901	1-102-106-00 1-161-021-00 1-161-013-00 1-123-647-00 1-123-611-00 1-101-002-00 1-123-647-00 1-161-019-00 1-123-296-00 1-123-647-00 1-131-392-00 1-131-451-00 1-131-345-00 1-131-392-00 1-131-375-00 1-131-383-00 1-131-451-00 1-123-296-00	100p ceramic 0.047 ceramic (semiconductor) 0.01 ceramic (semiconductor) 47 6.3V elect 1 50V elect 0.0022 ceramic 47 6.3V elect 0.033 ceramic (semiconductor) 220 6.3V elect 47 6.3V elect 33 3.15V tantalum 0.1 16V tantalum 0.47 35V tantalum 33 3.15V tantalum 4.7 10V tantalum 10 6.3V tantalum 0.1 16V tantalum 220 6.3V elect

RESISTORS

Common 1/8W carbon resistors are omitted. Refer to the list on 25 page for their part numbers.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
R606	1-211-697-00	2.2M Ω 1/16W micro
RV101,201	1-226-662-00	20k Ω -A, variable; VOLUME
RV601	1-226-488-00	5k Ω -B, adjustable

MISCELLANEOUS

CNJ901	1-507-447-XX	Jack, DC IN 3V
HP901	8-829-373-50	Playback Head, PP181-3602E
J801	1-507-665-00	Jack, HEADPHONES
L601	1-407-847-00	35 μ H, microinductor
M1	8-835-008-11	Motor, MNF-1600B

- Items marked "☛" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
MIC901	8-814-198-91	Microphone, C-1004Q
S301	1-552-849-00	Switch, slide; TONE
S801	1-553-086-00	Switch, pushbutton; HOT LINE
S901	1-553-226-00	Switch, leaf; POWER
THP601	1-800-535-00	Thermistor

PRINTED CIRCUIT BOARDS

- ☛ 1-601-517-00 AF Amp
- ☛ 1-601-518-00 Jack

COMPLETE CIRCUIT BOARDS

- ☛ A-3065-030-A Servo Amp
- ☛ A-3068-057-A Main

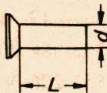
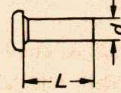
ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
1-528-052-00	Alkaline Battery, size AA (IEC designation R6) (US, Canadian, E model)	3-570-631-00	Bag, polyethylene (for cassette-case)
3-568-739-00	Cushion, upper	3-701-622-00	Bag, polyethylene (for set)
3-568-754-11	Case, cassette-type	3-701-625-00	Bag, polyethylene (for printed matters) (US model)
3-568-755-11	Band, shoulder		
3-568-756-11	Case, carrying	3-783-008-14	Manual, instruction
		3-794-906-11	International Warranty Card
3-568-766-00	Carton, individual	8-893-525-10	Tape, demonstration
3-568-767-00	Cushion	—	Headphone, MDR3L2

1/8 WATT CARBON RESISTOR

Ω	<u>Part No.</u>	Ω	<u>Part No.</u>	Ω	<u>Part No.</u>	Ω	<u>Part No.</u>	Ω	<u>Part No.</u>	Ω	<u>Part No.</u>	Ω	<u>Part No.</u>
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

DIMENSIONS AND PART NO. OF PRECISION SCREWS

\oplus K (Flat-countersunk-head screw)				\oplus P (Pan-head screw)					
									
Type	Size (mm) (d × L)	Part No.		Type	Size (mm) (d × L)	Part No.			
		Black	Silver			Black	Silver		
Type 1	K1.4 × 1.6 K1.4 × 1.8 K1.4 × 2 K1.4 × 2.2 K1.4 × 2.5	7-627-451-08	7-627-451-07	Type 1	P1.4 × 1.4 P1.4 × 1.6 P1.4 × 1.8 P1.4 × 2 P1.4 × 2.2	7-627-551-08	7-627-551-07 7-627-551-17		
	K1.4 × 2.8 K1.4 × 3 K1.4 × 3.5 K1.4 × 4 K1.4 × 4.5	7-627-451-18	7-627-451-17		P1.4 × 2.5 P1.4 × 2.8 P1.4 × 3 P1.4 × 3.5 P1.4 × 4	7-627-551-28 7-627-551-88 7-627-551-58 7-627-551-68 7-627-551-78	7-627-551-27 7-627-551-57 7-627-551-67 7-627-551-77		
	K1.4 × 5	7-627-451-78	7-627-451-77		P1.4 × 4.5 P1.4 × 5	7-627-551-38	7-627-551-37		
	K1.7 × 1.8 K1.7 × 2 K1.7 × 2.2 K1.7 × 2.5 K1.7 × 2.8	7-627-450-78	/		P1.7 × 1.6 P1.7 × 1.8 P1.7 × 2 P1.7 × 2.2 P1.7 × 2.5	7-627-552-18 7-627-552-28 7-627-552-08	7-627-552-27 7-627-552-07		
	K1.7 × 3 K1.7 × 3.5 K1.7 × 4 K1.7 × 4.5 K1.7 × 5				P1.7 × 2.8 P1.7 × 3 P1.7 × 3.5 P1.7 × 4 P1.7 × 4.5	7-627-552-38 7-627-552-78 7-627-552-48	7-627-552-37 7-627-552-47 7-627-552-67		
	K1.7 × 5.5 K1.7 × 6				P1.7 × 5 P1.7 × 5.5 P1.7 × 6	7-627-552-58	7-627-552-57		
	K2 × 2 K2 × 2.2 K2 × 2.5 K2 × 2.8 K2 × 3				7-627-452-08	7-627-452-07	P2 × 1.8 P2 × 2 P2 × 2.2 P2 × 2.5 P2 × 2.8	7-627-553-18 7-627-553-28	7-627-553-17 7-627-554-07 7-627-553-27
	K2 × 3.5 K2 × 4 K2 × 4.5 K2 × 5 K2 × 5.5				7-627-452-18	7-627-452-17	P2 × 3 P2 × 3.5 P2 × 4 P2 × 4.5 P2 × 5	7-627-553-38 7-627-553-48 7-627-553-58	7-627-553-37 7-627-554-17 7-627-553-47 7-627-553-57 7-627-553-67
	K2 × 6 K2 × 7 K2 × 8	7-627-452-28			P2 × 5.5 P2 × 6 P2 × 7 P2 × 8 P2 × 10	7-627-553-88 7-627-553-98 7-627-553-78	7-627-553-87 7-627-553-97 7-627-553-77		
		7-627-452-38			Type 3	P1.4 × 1.4 P1.4 × 1.6 P1.4 × 1.8 P1.4 × 2 P1.4 × 2.2	7-627-850-08	7-627-850-37 7-627-850-47 7-627-850-77 7-627-850-07	
						P1.4 × 2.5 P1.4 × 2.8 P1.4 × 3 P1.4 × 3.5 P1.4 × 4	7-627-850-18 7-627-850-28 7-627-850-58 7-627-850-68	7-627-850-17 7-627-850-27 7-627-850-57 7-627-850-67	
						P1.4 × 4.5 P1.4 × 5		7-627-851-17 7-627-851-27	

Date	06 FEB 81	Ref. N°	TC-00181	Model	TPS-L2
Subject	Information on the speaker panel assembly Information sur le panneau du haut-parleur Information über den Lautsprecherdeckel				

English :

The speaker panel ass'y has been separated into three parts as follows.

Français :

Le panneau du haut-parleur a été séparé en trois pièces individuelles :

Deutsch :

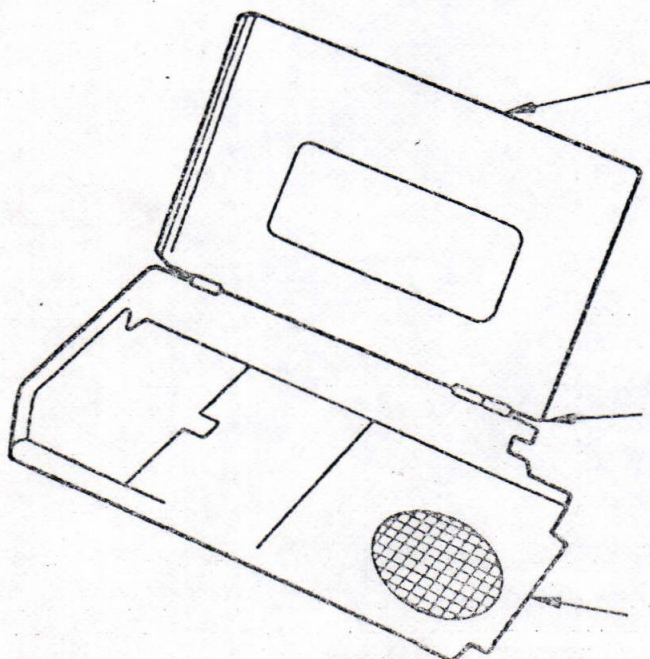
Der Lautsprecherdeckel ist in drei separat lieferbare Teile getrennt worden :

Former/Ancien/Alt	New/Nouveau/Neu	Price/Prix/Preis
X-3568-707-0 Cassette panel ass'y Panneau du haut-parleur Lautsprecherdeckel	X-3568-711-1 Cassette lid ass'y, top Couvercle du compartiment de cassette Cassettenfachdeckel	(K)
	3-557-539-00 Cassette lid shaft Charnière du couvercle Scharnier des Deckels	(B)
	X-3568-713-1 Cassette lid ass'y, bottom Couvercle du haut-parleur Lautsprecherdeckel	(F)

Only the new parts will be supplied as repair parts.

Seules les nouvelles pièces seront délivrées comme pièces de rechange.

Nur die neuen Teile werden als Ersatzteile geliefert.



X-3568-711-1
Cassette lid ass'y, top
Couvercle du compartiment de cassette
Cassettenfachdeckel

3-557-539-00
Cassette lid shaft
Charnière du couvercle
Scharnier des Deckels

X-3568-713-1
Cassette lid ass'y, bottom
Couvercle du haut-parleur
Lautsprecherdeckel

Date	17 Apr 81	Ref. N°	TC-01981	Model	TPS-L2
Subject	Remedy against static noise Remède contre le souffle statique Abhilfe für statisches Rauschen				

English:

Français:

Deutsch:

Applicable to serial No.:

Nos. de série concernés:

Betr. Seriennummern:

US	106001~	UK	117501~
Canadian	207501~	E	118501~
AEP	108501~		

Symptom

Static noise is heard in the R-CH output.

Remedy

- 1) Replace the middle pulley ass'y, the FWD idler ass'y and the belt (B) with new ones.
- 2) When static noise is still heard in spite of remedy 1, attach a shield to the inside of the bottom cassette lid ass'y, covering IC202 and the middle pulley ass'y.

Symptôme

Un souffle statique dans le canal droit.

Remède

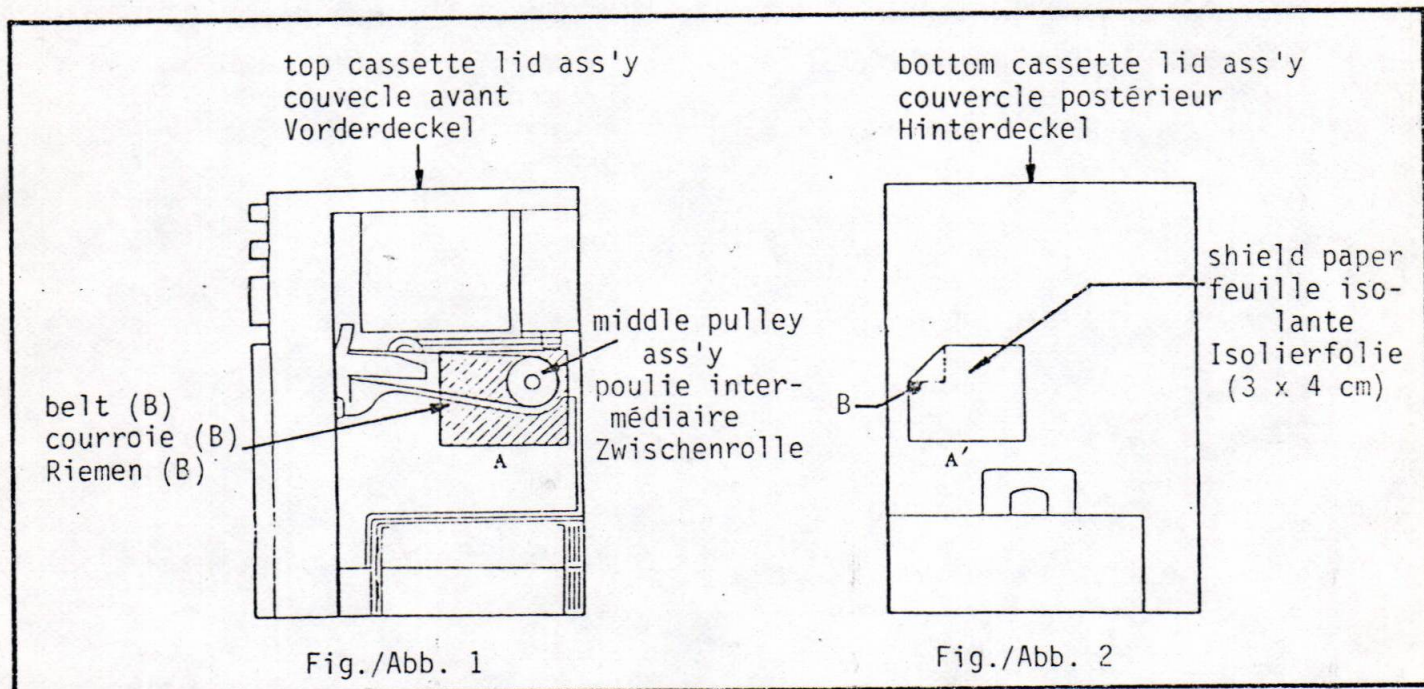
- 1) Remplacez la poulie intermédiaire, la poulie FWD et la courroie (B).
- 2) Si le remède mentionné sous 1 n'est pas effectif, il y a lieu d'équiper l'intérieur du couvercle postérieur d'une feuille isolante afin de protéger l'IC202 et la poulie intermédiaire.

Symptom

Statisches Rauschen im rechten Kanal.

Abhilfe

- 1) Zwischenrolle, FWD-Rolle und Riemen (B) austauschen.
- 2) Die Möglichkeit besteht, daß die unter 1 angegebene Abhilfe nicht effektiv ist. In diesem Fall die Innenseite des Hinterdeckels zur Abdeckung von IC202 und der Zwischenrolle mit einer Isolierfolie ausstatten.



.../...

Description Désignation Beschreibung	Part number N° de pièce Sachnummer	Price Prix Preis
Pulley ass'y, middle Poulie intermédiaire Zwischenrolle	X-3557-410-0	ⓑ
Idler ass'y, FWD Poulie FWD FWD-Rolle	X-3557-417-0	ⓒ
Belt (B) Courroie (B) Riemen (B)	3-480-135-00	ⓑ

Fold the shield paper as shown in Fig. 2 (B) and peel off the paint of the revealed area in order to have a good electric contact with the ground.

NOTE: The shield paper should not touch the conductor portions of the board.

Pliez le coin B de la feuille comme indiqué en fig. 2 et grattez la laque de l'endroit exposé afin d'établir suffisamment de contact électrique avec la masse.

NOTE: Veillez à ce que la feuille isolante n'ait pas de contact avec les parties conductrices de la platine.

Ecke B der Folie wie in Abb. 2 angedeutet falten und den Lack von der freigekommenen Stelle abkratzen. Dies gewährleistet einen tauglichen elektrischen Kontakt mit der Masse.
ANMERKUNG: Die Isolierfolie darf mit den leitenden Platineteilen keinen Kontakt haben.

Date	08 JUN 1981	Ref. N°	TC-02681	Model	TPS-L2
Subject	Remedy against static noise Remède contre le souffle statique Abhilfe für statisches Rauschen				

English :Note :

This Service Bulletin is valid for the recent models, equipped with a new main board. (This S/B does not supersede the previous one (TC-01981) which also applies to the same problem.)

Symptom :

Ticking noise, due to static discharge, is heard in the R-channel of the TPS-L2.

Français :Note :

Ce Service Bulletin concerne les modèles récents munis de la nouvelle platine principale. Cependant il ne remplace pas le Service Bulletin TC-01981 relatif au même problème.

Symptôme :

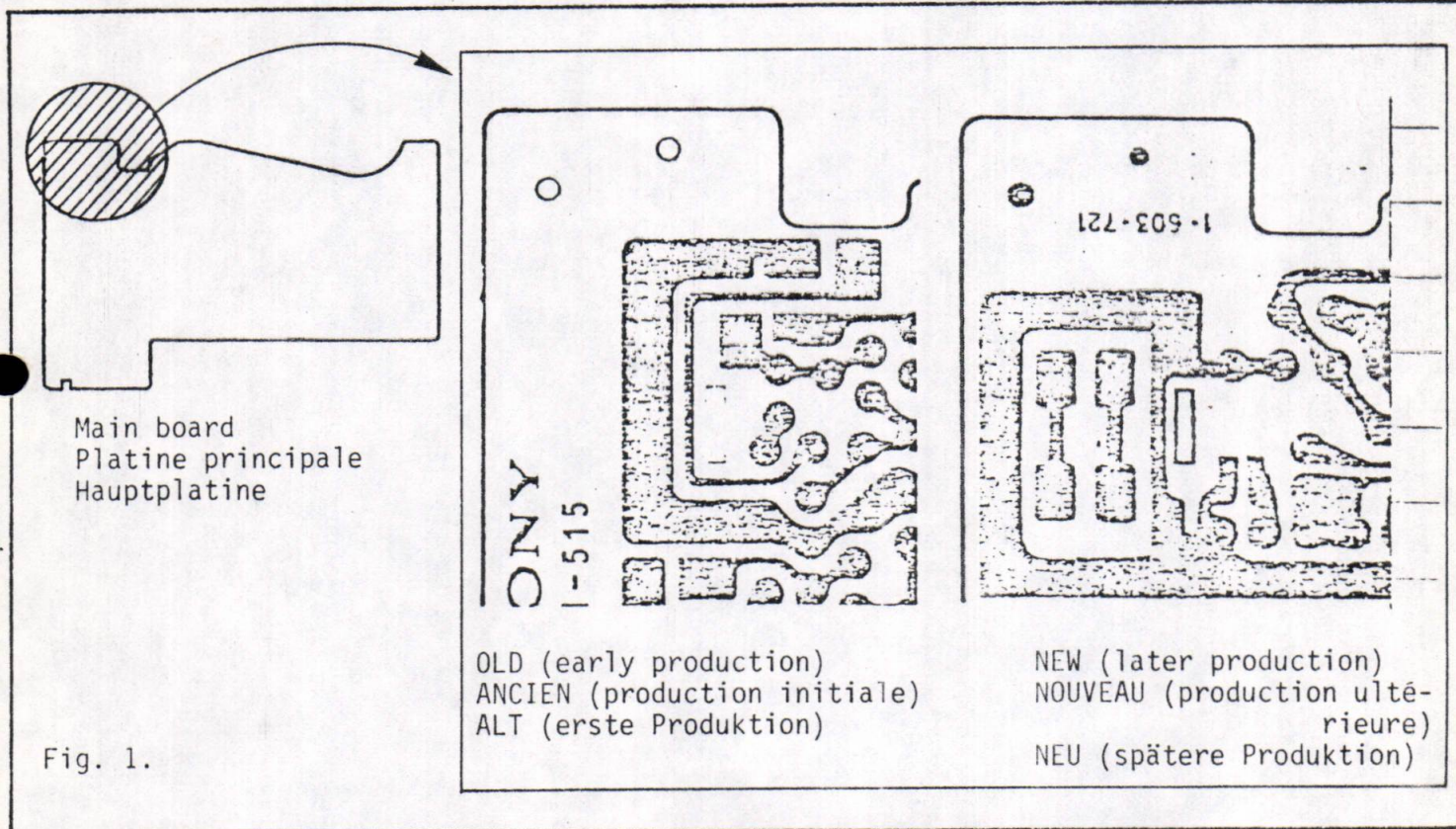
Un cliquetis, dû à la décharge statique, se produit dans le canal droit.

Deutsch :Anmerkungen :

Dieses Service Bulletin bezieht sich auf die mit einer neuen Hauptplatine ausgestatteten Geräte der späteren Produktion. Service Bulletin TC-01981, das ebenfalls dieses Problem behandelt, wird damit jedoch nicht aufgehoben.

Symptom :

Durch statische Entladung wird im rechten Kanal ein Ticklaut erzeugt.

Remedy :

Shield the area, shown in Fig. 2, with a copper sheet.

Remède :

Recouvrez l'endroit indiqué d'un blindage de cuivre.

Abhilfe :

Die angegebene Stelle mit einer Kupferplatte isolieren.

Description Désignation Beschreibung	Part Number N°de pièce ET-Nummer
250 x 280 mm copper shield plaquette de cuivre Kupferplatte	3-701-895-01

Note :

The shield kit is a large sheet of copper, enough for some 200 modifications.

Note :

Le blindage de cuivre suffit pour ca. 200 modifications.

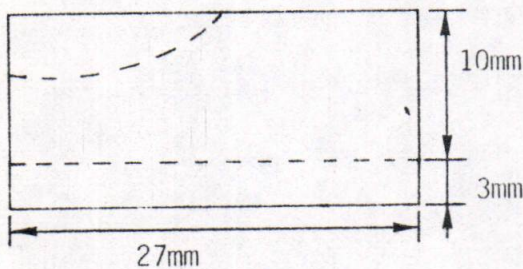
Anmerkung :

Die Kupferplatte reicht für ca. 200 Modifizierungen.

Trim to the contour of the main board after the copper sheet is glued on the board.

Collez la plaquette de cuivre à la platine principale et coupez-la au long des contours de la platine.

Die Kupferplatte auf die Hauptplatine kleben und an der Leiterplatte entlang abschneiden.

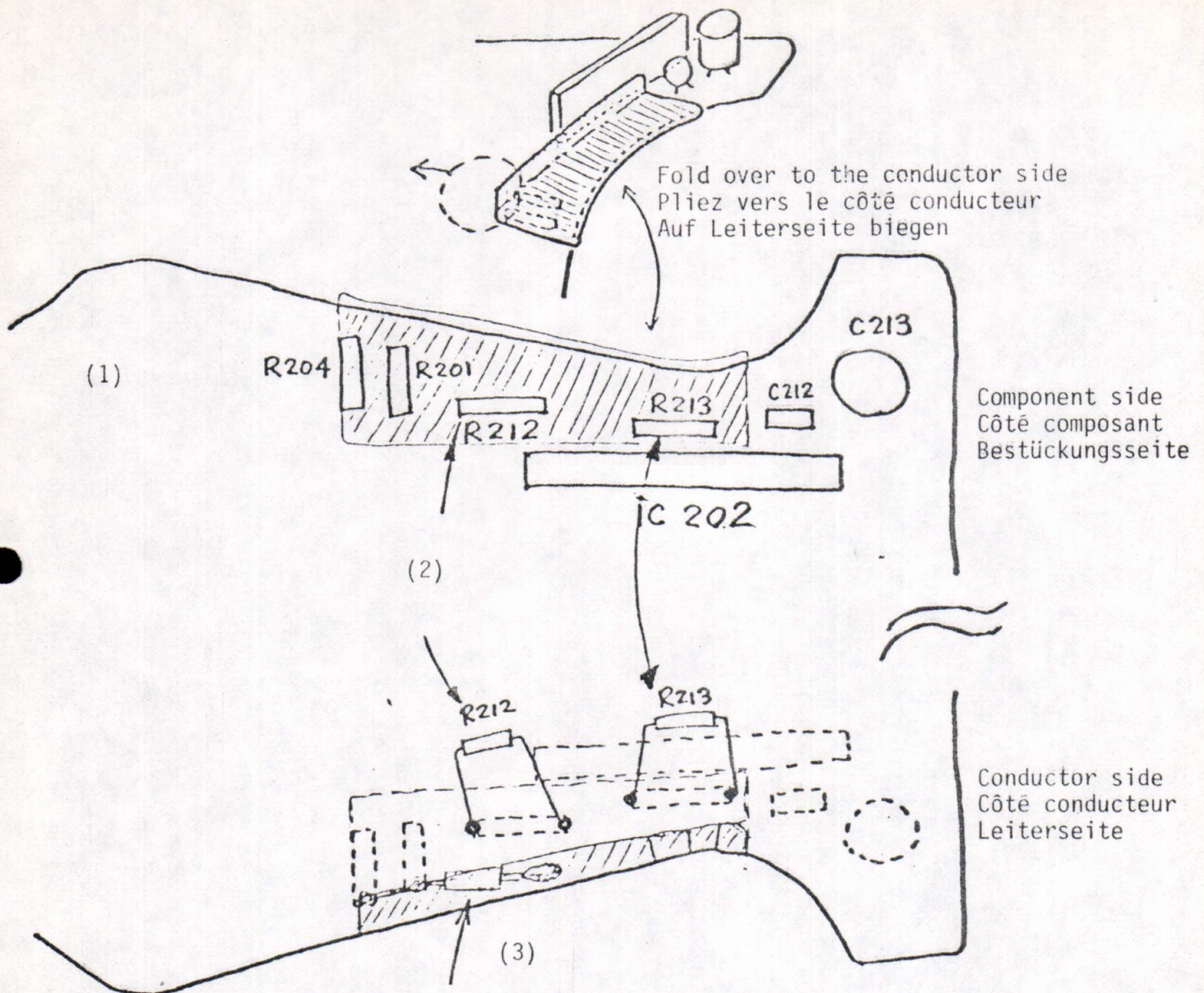


Copper sheet/Plaquette de cuivre/Kupferplatte
Cut the sheet to the size shown/
Coupez la plaquette afin d'obtenir le profil
indiqué/
Zu angegebenen Abmessungen abschneiden.

Confirm thereafter that FWD and FF works properly. The sheet should be trimmed away from the gears beneath.

Après, contrôlez les fonctions FWD et FF. Profilez la plaquette afin qu'elle n'ait pas de contact avec les engrenages.

Danach FWD und FF überprüfen. Die Platte darf mit den Zahnrädern keinen Kontakt haben.



(1) This area is rather critical. Do not oversize or undersize the copper sheet.

(2) Remove R212 and R213 to the conductor side and solder them flush on the surface. Do not put wires through holes.

(3) Solder the copper sheet to the grounding side of R204 and R201. (Use care not to damage nearby rubber belt and middle pulley.) (Use a wire as thick as possible.)

(1) Cet endroit est critique. Veillez à ne pas utiliser un format trop petit ou trop grand.

(2) Déplacez R212 et R213 du côté conducteur et soudez-les à ras à la surface. Ne mettez pas de fils à travers les trous.

(3) Soudez le blindage de cuivre au côté-masse de R204 et R201. Veillez à ne pas endommager la courroie de caoutchouc et la poulie intermédiaire. (Utilisez le fil le plus épais possible.)

(1) Diese Stelle ist für die Betriebsicherheit wichtig. Kupferplatte weder zu groß noch zu klein schneiden.

(2) R212 und R213 auf Leiterseite bringen und in gleicher Ebene an die Oberfläche löten. Durch die Löcher niemals Drähte ziehen.

(3) Die Kupferplatte an den Massenanschluß von R204 und R201 löten. Die benachbarten Gummiriemen und Zwischenrad nicht beschädigen. (Einen Draht so dick wie möglich anwenden.)

Fig. 2.

Date	08 JUN 1981	Ref. N°	TC-02881	Model	TPS-L2
Subject	Correction of Service Bulletin TC-01981 Correction du Service Bulletin TC-01981 Korrektur von Service Bulletin TC-01981				

English :

The part number of the belt is wrong. Please change as follows :

Français :

Le N° de pièce de la courroie cité était erroné. Veuillez apporter la correction suivante :

Deutsch :

Die ET-Nummer des Riemen wurde falsch angegeben. Die Nummer bitte wie folgt korrigieren :

Description Désignation Beschreibung	Wrong Part Number N°de pièce erroné Falsche ET-Nr.	Correct Part Number N°de pièce correct Richtige ET-Nr.	Price Prix Preis
Belt (B) Courroie (B) Riemen (B)	3-480-135-00	3-480-136-00	ⓑ