

TCM-828/838

SERVICE MANUAL

TCM-828/838:
US Model
Canadian Model

TCM-828:
AEP Model
UK Model
E Model

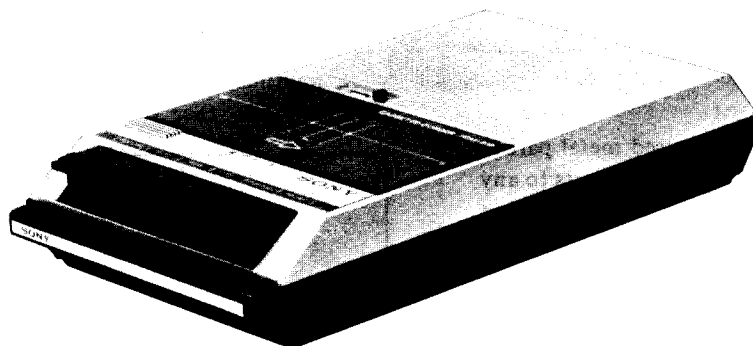


PHOTO: TCM-838

SPECIFICATIONS

Recording system: 2-track 1-channel monaural
Speaker: Approx. 7.7 cm ($3\frac{1}{8}$ inches) dia.
Fast winding time: Approx. 2 min. with Sony C-60 cassette
Frequency response: 50–8,000 Hz
Input: Microphone input (minijack)
sensitivity 0.2mV (–72 dB)
for low impedance microphone
Output: Earphone jack (minijack)
for 8 to 300-ohm earphone or load
impedance 10 kilohms or higher
Other jack: Remote control jack
Power output: 450 mW (at 10% harmonic distortion)
Power requirements: 6 V dc
4 batteries IEC designation R14 (size C)
240 V ac, 50 Hz (UK model)
120 V ac, 60 Hz (US, Canadian model)
220 V ac, 50 Hz (AEP model)
120-220 V ac, 50 Hz (E model)

Battery life

Batteries	Recording	Playback
Sony New Super SUM-2 (NS) batteries or Eveready No. 1235 Heavy Duty batteries	4	4
Sony Eveready AM2 or Eveready No. E93 Alkaline batteries	10	10

(hours)

Dimensions: Approx. 142 x 49 x 264 mm (w/h/d)
($5\frac{5}{8} \times 1\frac{15}{16} \times 10\frac{5}{8}$ inches)
incl. projecting parts and controls
Weight: Approx. 800 g (1 lb 12 oz) incl. batteries

Tape Transport Mechanism Type	MT-828
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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS 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 SCHEMATIQUES 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.

CASSETTE-CORDER
SONY[®]

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

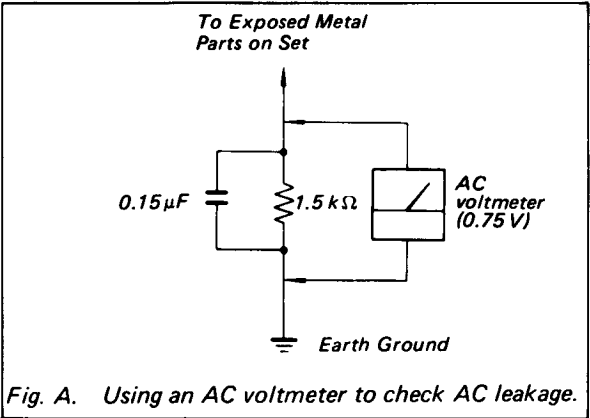
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



MODEL IDENTIFICATION

SONY® MODEL No. 

CASSETTE – CORDER



TCM-828

TCM-838

US, Canadian model: AC: 120 V 60 Hz 4 W

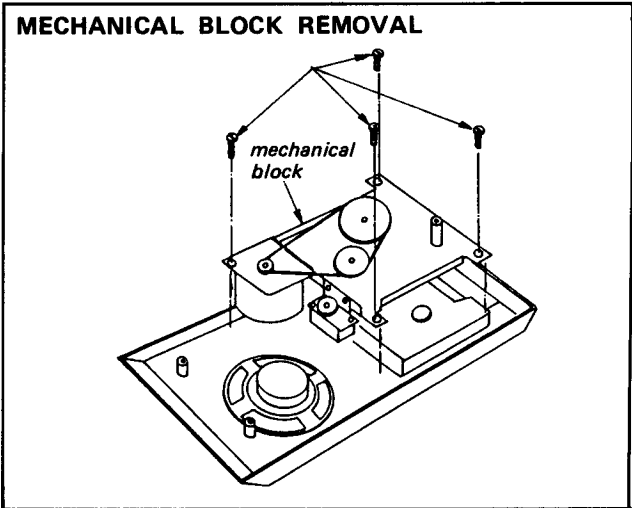
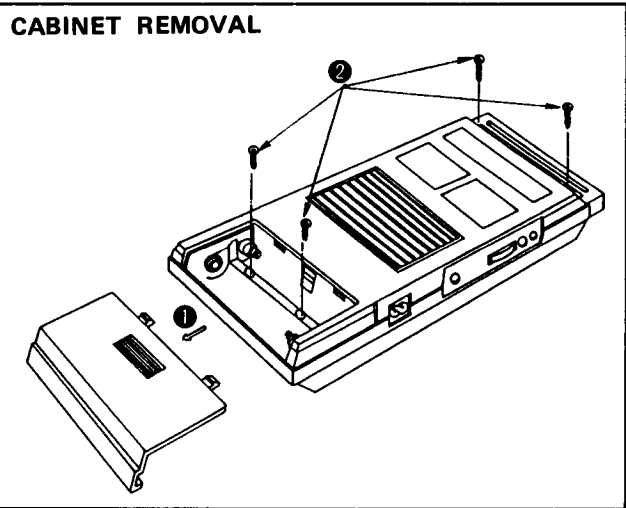
AEP model: AC: 220 V 50 Hz 4 W

UK model: AC: 240 V 50 Hz 4 W

E model: AC: 120/220 V 50 Hz 4 W

SECTION 1 DISASSEMBLY

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



SECTION 2 ADJUSTMENTS

2. ADJUSTMENTS

PRECAUTION

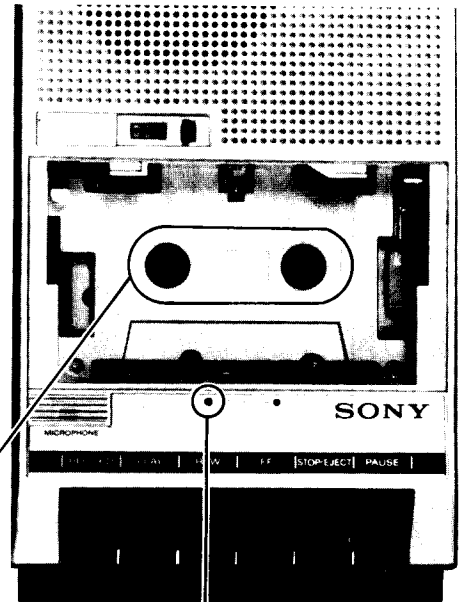
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Power supply voltage: 6 V dc

Mode	SONY torque meter	Torque
forward	CQ-102C	40 – 70 g·cm (0.56 – 0.97 oz·inch)
fast forward. rewind	CQ-201B	55 g·cm or more (0.76 oz·inch)



Record/playback Head Azimuth Adjustment

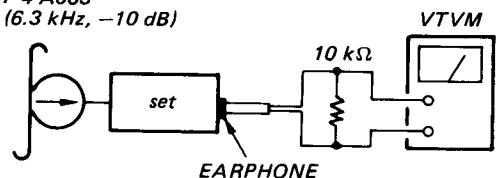
Setting:

VOLUME control: mechanical mid

Procedure:

1. Mode: playback

test tape
P-4-A063
(6.3 kHz, -10 dB)



2. Turn the adjustment screw for the highest VTVM reading.

Note: Several peaks may appear, but take the maximum.

Tape Speed Adjustment

Setting:

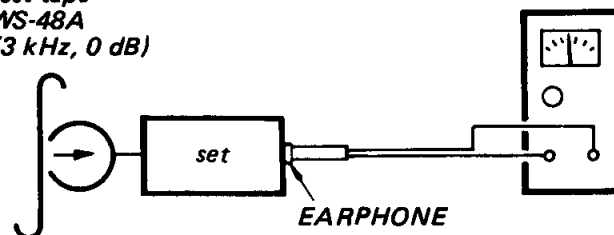
VOLUME control: mechanical mid

Procedure:

Mode: playback

test tape
WS-48A
(3 kHz, 0 dB)

speed checker
LFM-30
or
digital frequency
counter



Specification:

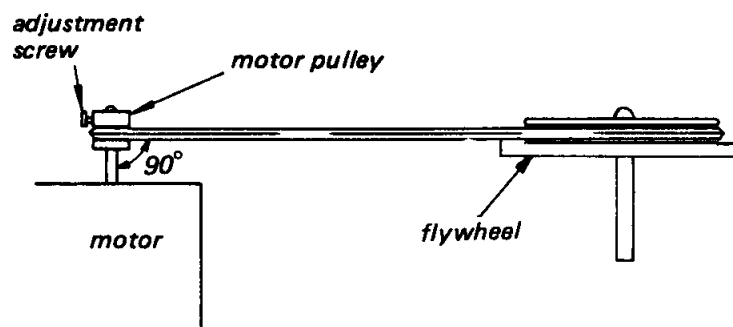
Speed checker	Digital frequency counter
-2 to +2%	2,940 - 3,060 Hz

Motor Pulley Height Adjustment

Perform this adjustment, after replacing the motor pulley or the flywheel.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without a twist.

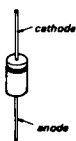


SECTION 3 DIAGRAMS

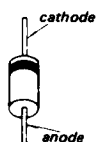
3-1. MOUNTING DIAGRAM

Semiconductor Lead Layouts

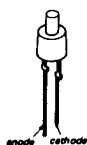
10E-2



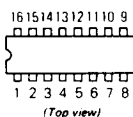
1S1555



TLR-206

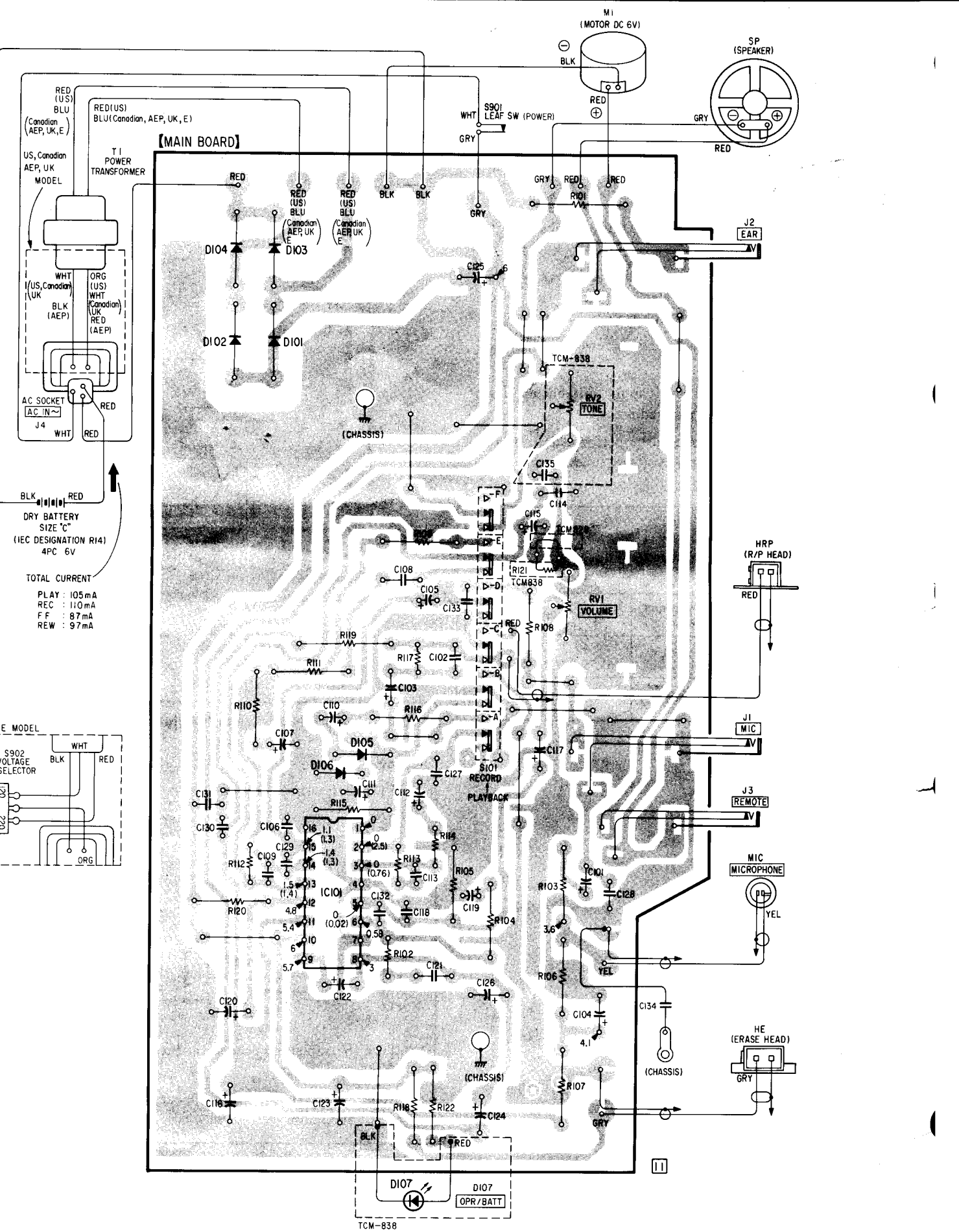


TA7628P

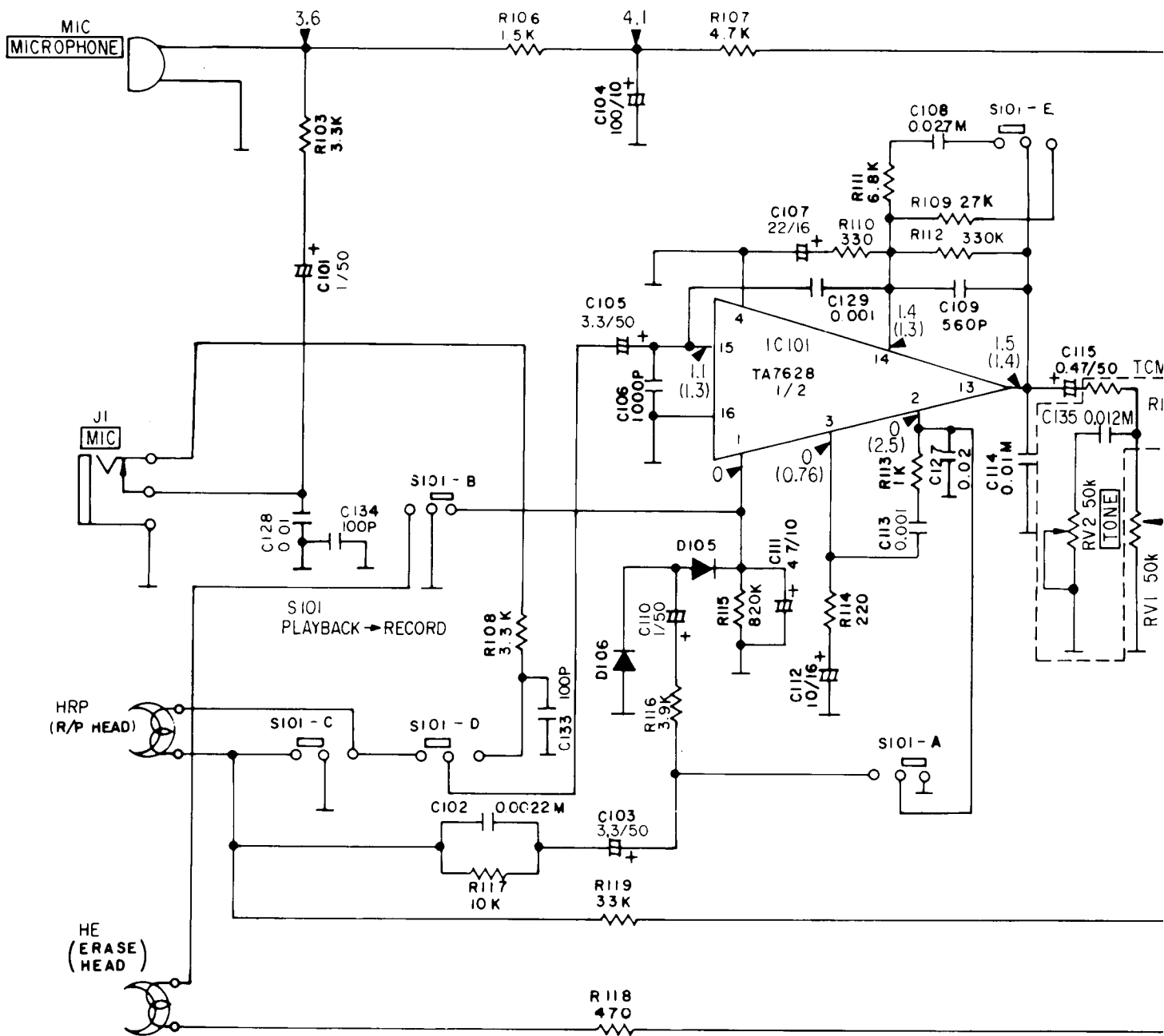


Note:

- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.



3-2. SCHEMATIC DIAGRAM



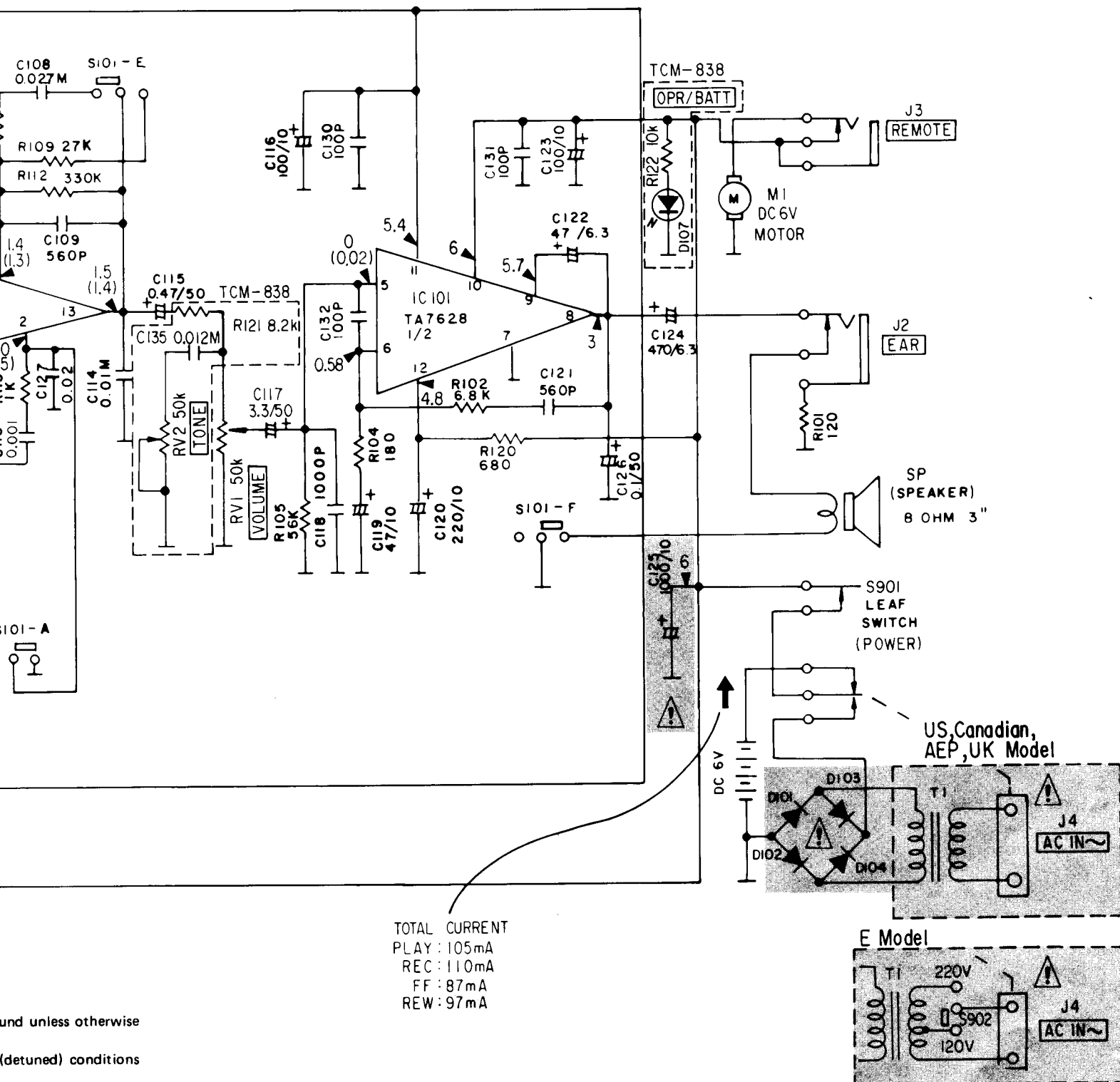
Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics
and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise
specified.
- Switch

- Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under no-signal (detuned) conditions with a VOM (50 k Ω /V).
- () : RECORD MODE

Ref. No.	Switch	Position
S101	PLAYBACK → RECORD	PLAYBACK

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



und unless otherwise

(detuned) conditions

d by shading and mark
. Replace only with

Note: Les composants identifiés par une trame et une
marque sont critiques pour la sécurité. Ne les
remplacer que par une pièce portant le numéro
spécifié.

SECTION 4

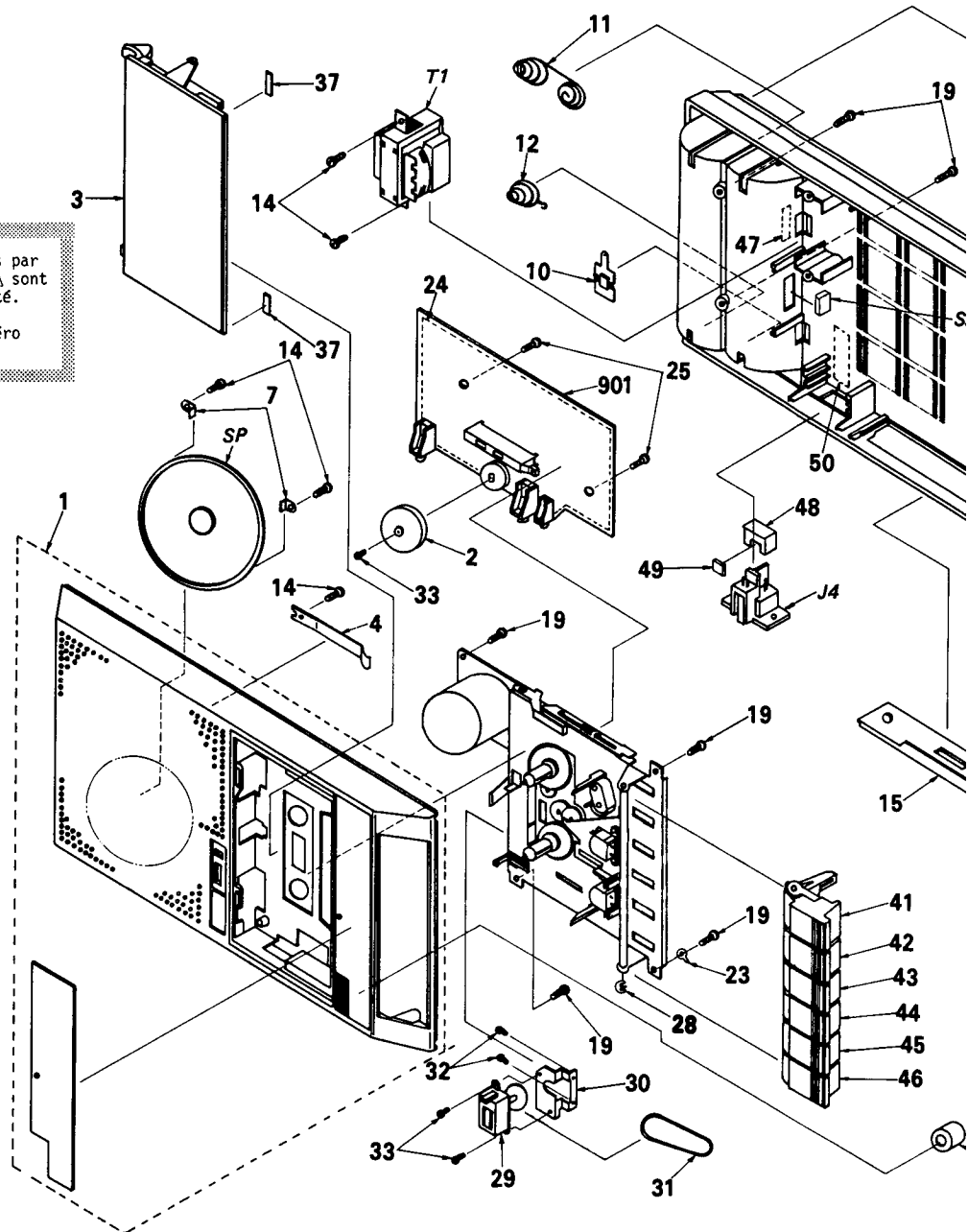
EXPLODED VIEWS AND PARTS LIST

NOTE:

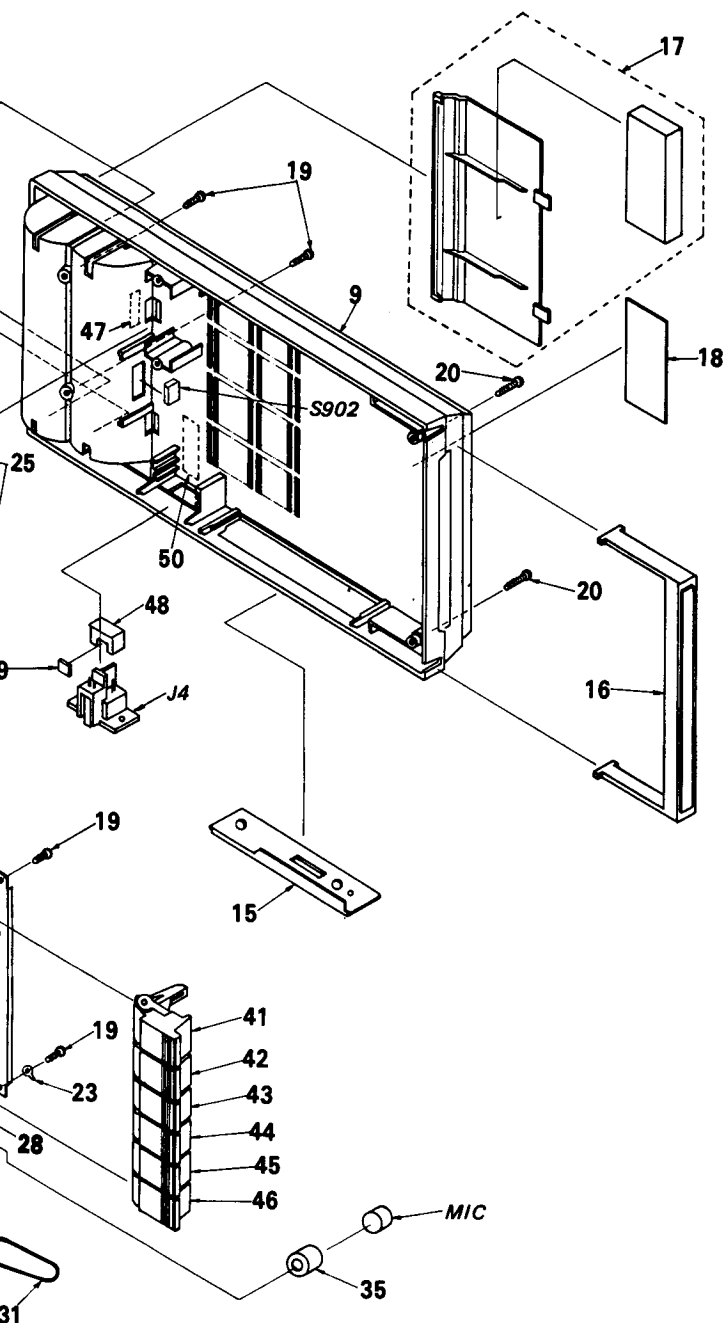
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

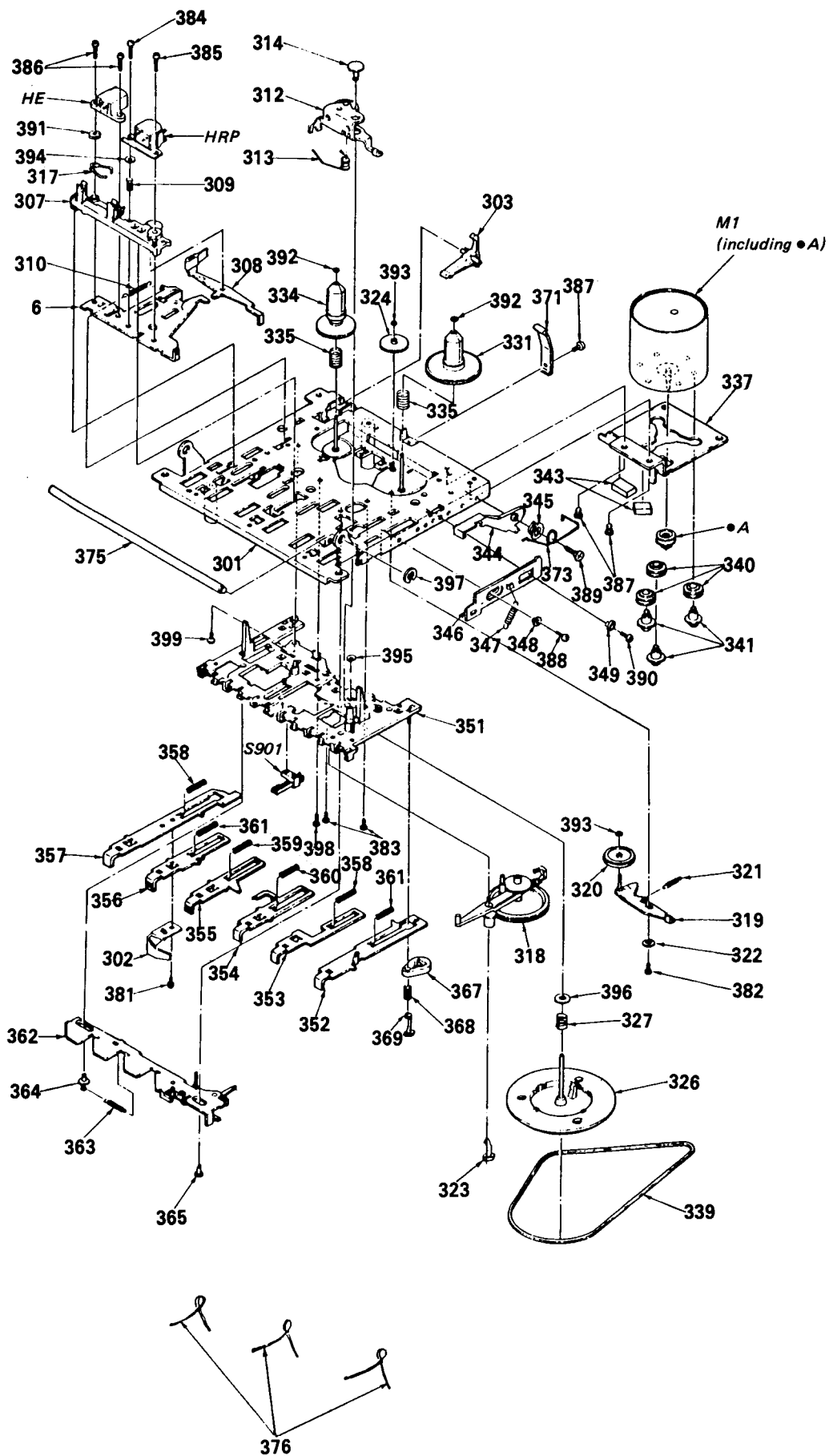


No.	Part No.	Description	Remarks	No.	Part No.	Description
1	X-3597-213-1	(TCM-828)...CABINET ASSY, FRONT		16	3-597-210-01	(TCM-828)...HANDLE
	X-3597-216-1	(TCM-838)...CABINET ASSY, FRONT		17	3-597-210-11	(TCM-838)...HANDLE
2	3-597-248-01	KNOB, VOLUME		18	X-3597-212-1	LID ASSY, BATTERY CASE
3	3-597-207-01	(TCM-828)...DOOR CASSETTE			3-597-223-01	(TCM-828:US).....LABEL,
	3-597-207-11	(TCM-838)...DOOR CASSETTE			3-597-223-51	(TCM-838:US).....LABEL,
4	3-597-214-01	SPRING DOOR			3-597-223-61	(TCM-838:Canadian)...LABEL,
7	★3-597-215-01	HOLDER SPEAKER			3-597-223-11	(TCM-828:Canadian)...LABEL,
9	3-597-217-01	CABI BOTTOM			3-597-223-21	(AEP)...LABEL, MODEL NUMBER
10	3-597-218-01	TERMINAL BATT			3-597-223-31	(UK)...LABEL, MODEL NUMBER
11	3-597-219-01	SPRING BATT A			3-597-223-41	(E)...LABEL, MODEL NUMBER
12	3-597-220-01	SPRING BATT B		19	7-682-548-09	SCREW +B 3X8
14	7-682-549-09	SCREW +B 3X10		20	★7-682-551-09	SCREW +B 3X14
15	3-597-209-01	(TCM-828)...BOARD JACK		23	7-623-508-01	LUG, 3
	3-597-209-11	(TCM-838)...BOARD JACK		24	★3-597-211-01	PLATE, SHIELD
				25	7-682-547-04	SCREW +P 3X6
				28	7-624-106-04	STOP RING 3.0, TYPE -E
				29	1-548-592-11	COUNTER, TAPE (SMALL TYPE)



No.	Part No.	Description	Remarks
901	*A-3060-027-A	(TCM-828).....PC BOARD ASSY, AUDIO	
	*A-3060-028-A	(TCM-838).....PC BOARD ASSY, AUDIO	
JA	1-528-844-11		
JA	1-528-845-11		
JA	1-528-846-11		
MIC	1-542-076-11	MICROPHONE, ELECTRET CONDENSER	
S902	1-570-428-11		
T1	1-448-824-11		
T1	1-448-825-11	(Canadian)	
T1	1-448-826-11	(REP)	
T1	1-448-827-11	(UK)	
T1	1-448-828-11	(US)	
SP	1-503-558-11	SPEAKER	

Description	Remarks	No.	Part No.	Description	Remarks
01 (TCM-828)...HANDLE		30	*3-597-238-01	BRACKET COUNTER	
11 (TCM-838)...HANDLE		31	3-597-237-01	BELT COUNTER	
-1 LID ASSY, BATTERY CASE		32	7-621-775-20	SCREW +B 2.6X5	
01 (TCM-828:US).....LABEL, MODEL NUMBER		33	7-621-255-25	SCREW +P 2X4	
51 (TCM-838:US).....LABEL, MODEL NUMBER		35	3-597-216-01	BUSHING C-MIC	
61 (TCM-838:Canadian)...LABEL, MODEL NUMBER		37	3-831-441-11	HIMERON	
11 (TCM-828:Canadian)...LABEL, MODEL NUMBER		41	3-597-230-11	BUTTON, PAUSE	
21 (AEP)...LABEL, MODEL NUMBER		42	3-597-230-01	KNOB, DECK, STOP EJECT	
31 (UK)...LABEL, MODEL NUMBER		43	3-597-230-51	BUTTON, FF	
41 (E)...LABEL, MODEL NUMBER		44	3-597-230-41	BUTTON, REW	
09 SCREW +B 3X8		45	3-597-230-31	BUTTON, PLAY	
09 SCREW +B 3X14		46	3-597-230-21	BUTTON, REC	
01 LUG, 3		47	3-527-213-00	LABEL, SERIAL NUMBER	
01 PLATE, SHIELD		48	3-597-229-01	(UK)...BACK, COVER	
04 SCREW +P 3X6		49	3-597-602-01	(UK)...PLATE, AC JACK	
04 STOP RING 3.0, TYPE -E		50	3-703-043-21	(UK)...LABEL, CAUTION, MAIN	
11 COUNTER, TAPE (SMALL TYPE)					



MECHANISM SECTION

<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
301	X-3597-201-1	CHASSIS ASSY	
302	3-597-249-01	RECORD SPRING	
303	3-597-250-01	RECORD SAFETY LEVER	
306	*3-597-251-01	HEAD PANEL	
307	3-597-252-01	HEAD BASE	
308	*X-3597-202-1	SENSING PLATE ASSY	
309	3-597-253-01	HEAD SPRING	
310	3-597-254-01	HEAD PANEL SPRING B	
312	X-3597-203-1	PINCH ROLLER ASSY	
313	3-597-255-01	PINCH ROLLER SPRING	
314	3-597-256-01	PINCH ROLLER ARM STOPPER	
317	3-597-257-01	RC SPRING	
318	X-3597-204-1	RF PULLEY ARM ASSY	
319	*X-3597-205-1	TAKE-UP ROLLER ARM ASSY	
320	X-3597-206-1	TAKE-UP ROLLER ASSY	
321	3-597-258-01	T-ROLLER ARM SPRING	
322	3-597-259-01	T-ROLLER ARM COLLER	
323	3-597-260-01	RF PULLEY ARM STOPPER	
324	3-597-261-01	FF GEAR	
326	X-3597-207-1	FLYWHEEL ASSY	
327	3-597-262-01	FL THRUST SPRING	
331	X-3597-208-1	TAKE-UP REEL ASSY	
334	X-3597-209-1	SUPPLY REEL ASSY	
335	3-597-263-01	BACK TENSION SPRING	
337	*3-597-265-01	MOTOR BRACKET	
338	7-685-145-19	SCREW +BTP 3X6 TYPE2 N-S	
339	3-597-267-01	MAIN BELT	
340	3-597-268-01	MOTOR RUBBER	
341	3-597-269-01	SCREW, STEP	
343	9-911-837-XX	ANTI-VIBRATION FELT MAT	
344	3-597-271-01	EJECT KICK LEVER	
345	3-597-272-01	EJECT KICK LEVER COLLER	
346	*3-597-273-01	EJECT SIDE LEVER	
347	3-597-274-01	EJECT SLIDE LEVER SPRING	
348	3-597-275-01	EJECT COLLER	
349	3-597-276-01	EJECT COLLER	
350	3-597-277-01	PUSH BUTTON BASE (R)	
HE	1-543-276-11	HEAD, ERASE (E-721-AC)	
HRP	1-543-277-11	HEAD, REC/PB (RP-5121-AE-6210)	
MI	1-542-076-11	MICROPHONE, ELECTRET CONDENSER	

MECHANISM SECTION

<u>No.</u>	<u>Part No.</u>	<u>Description</u>
351	3-597-278-01	PUSH BUTTON BASE (L)
352	*X-3597-210-1	PAUSE BUTTON LEVER ASSY
353	*3-597-279-01	STOP BUTTON LEVER
354	*3-597-280-01	FF BUTTON LEVER
355	*3-597-281-01	REW BUTTON LEVER
356	*3-597-282-01	PLAY BUTTON LEBER
357	3-597-283-01	REC BUTTON LEVER
358	3-597-284-01	BUTTON LEVER SPRING
359	3-597-285-01	BUTTON LEVER SPRING
360	3-597-286-01	BUTTON LEVER SPRING
361	*3-597-287-01	BUTTON LEVER SPRING
362	*X-3597-211-1	PUSH BUTTON ACTUATOR ASSY
363	3-597-288-01	SPRING
364	3-597-289-01	ACTUATOR SHAFT (B)
365	3-597-290-01	ACTUATOR SHAFT
367	*3-597-291-01	PAUSE LEVER
368	3-597-292-01	PAUSE LEVER SPRING
369	3-597-293-01	PAUSE LEVER STOPPER
371	3-597-294-01	PACK SPRING
373	3-597-295-01	EJECT KICK LEVER SPRING (H)
375	3-597-296-01	PUSH BUTTON LEVER SHAFT
376	3-597-297-01	BUTTON KNOB SPRING
381	7-627-553-38	SCREW, PRECISION +P 2X3
382	7-685-781-04	SCREW +BVTT 2X4 (S)
383	7-685-852-01	SCREW +BVTT 2X5 (S)
384	7-685-853-01	SCREW +BVTT 2X6 (S)
385	7-685-784-04	SCREW +BVTT 2X8 (S)
386	7-621-255-55	SCREW +P 2X8
387	7-685-531-19	SCREW +BTP 2.6X4 TYPE2 N-S
389	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S
390	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S
391	7-623-923-01	WASHER 2.6, NYLON
392	7-623-922-01	WASHER 2.0, NYLONE
393	3-570-615-00	POLY-WASHER (DIA.1.2)
394	7-623-922-11	WASHER 2.0, NYLONE
395	3-597-601-01	P WASHER CUT 1.55X5X0.6
396	3-307-948-11	WASHER, NYLON
397	7-624-106-04	STOP RING 3.0, TYPE -E
398	3-597-298-01	COLLER SCREW
399	3-597-299-01	COLLER SCREW Z

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

• MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

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

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-3060-027-A	(TCM-828)...PC BOARD ASSY, AUDIO
901	*A-3060-028-A	(TCM-838)...PC BOARD ASSY, AUDIO
C101	1-123-380-00	ELECT 1MF 20% 50V
C102	1-106-180-00	MYLAR 0.0022MF 5% 50V
C103	1-123-382-00	ELECT 3.3MF 20% 50V
C104	1-123-307-00	ELECT 100MF 20% 10V
C105	1-123-382-00	ELECT 3.3MF 20% 50V
C106	1-102-074-00	CERAMIC 0.001MF 10% 50V
C107	1-123-330-00	ELECT 22MF 20% 16V
C108	1-108-809-61	MYLAR 0.027MF 5% 50V
C109	1-102-115-00	CERAMIC 560PF 10% 50V
C110	1-123-380-00	ELECT 1MF 20% 50V
C111	1-123-306-00	ELECT 47MF 20% 10V
C112	1-123-356-00	ELECT 10MF 20% 16V
C113	1-102-074-00	CERAMIC 0.001MF 10% 50V
C114	1-102-129-00	CERAMIC 0.01MF 10% 50V
C115	1-123-379-00	ELECT 0.47MF 20% 50V
C116	1-123-307-00	ELECT 100MF 20% 10V
C117	1-123-382-00	ELECT 3.3MF 20% 50V
C118	1-102-074-00	CERAMIC 0.001MF 10% 50V
C119	1-123-306-00	ELECT 47MF 20% 10V
C120	1-123-308-00	ELECT 220MF 20% 10V
C121	1-102-115-00	CERAMIC 560PF 10% 50V
C122	1-123-306-00	ELECT 47MF 20% 6.3V
C123	1-123-307-00	ELECT 100MF 20% 10V
C124	1-123-298-00	ELECT 470MF 20% 6.3V
C125	▲ 1-123-311-00	ELECT 1000MF 20% 10V
C126	1-123-607-00	ELECT 0.1MF 20% 50V
C128	1-102-129-00	CERAMIC 0.01MF 10% 50V
C129	1-102-074-00	CERAMIC 0.001MF 10% 50V
C130	1-102-106-00	CERAMIC 100PF 10% 50V
C131	1-102-106-00	CERAMIC 100PF 10% 50V
C132	1-102-106-00	CERAMIC 100PF 10% 50V
C133	1-102-106-00	CERAMIC 100PF 10% 50V
C134	1-102-106-00	CERAMIC 100PF 10% 50V
C135	1-161-052-00	(TCM-838)...CERAMIC 0.012MF 10% 25V
D101	▲ 8-719-200-02	DIODE 10E-2
D102	▲ 8-719-200-02	DIODE 10E-2
D103	▲ 8-719-200-02	DIODE 10E-2
D104	▲ 8-719-200-02	DIODE 10E-2
D105	8-719-815-55	DIODE 1S1555
D106	8-719-815-55	DIODE 1S1555
D107	8-719-802-06	(TCM-838)...DIODE TLR206
HE	1-543-276-11	HEAD, ERASE (E-721-AC)
HRP	1-543-277-11	HEAD, REC/PB (RP-5121-AE-6210)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC101	8-759-200-49	IC TA7628P
J1	1-563-037-11	JACK (HSJ0707-01-020)(MIC)
J2	1-563-037-11	JACK (HSJ0707-01-020)(EAR)
J3	1-563-038-11	JACK (HSJ0465-01-020)(REMOTE)
J4	▲ 1-526-844-11	(US,Canadian)...INLET, AC
J4	▲ 1-526-845-11	(AEP,UK).....INLET, AC
J4	▲ 1-526-846-11	(E).....INLET, AC
M1	X-3597-214-1	MOTOR ASSY
MIC	1-542-076-11	MICROPHONE, ELECTRET CONDENSER
R101	1-246-451-00	CARBON 120 5% 1/4W
R102	1-247-151-00	CARBON 6.8K 5% 1/4W
R103	1-246-485-15	CARBON 3.3K 5% 1/4W
R104	1-246-455-00	CARBON 180 5% 1/4W
R105	1-246-515-15	CARBON 56K 5% 1/4W
R106	1-246-477-00	CARBON 1.5K 5% 1/4W
R107	1-247-721-11	CARBON 4.7K 5% 1/4W
R108	1-246-485-15	CARBON 3.3K 5% 1/4W
R109	1-246-507-00	CARBON 27K 5% 1/4W
R110	1-246-461-00	CARBON 330 5% 1/4W
R111	1-247-151-00	CARBON 6.8K 5% 1/4W
R112	1-246-533-00	CARBON 330K 5% 1/4W
R113	1-247-713-11	CARBON 1K 5% 1/4W
R114	1-246-457-00	CARBON 220 5% 1/4W
R115	1-246-543-00	CARBON 820K 5% 1/4W
R116	1-246-487-00	CARBON 3.9K 5% 1/4W
R117	1-247-725-11	CARBON 10K 5% 1/4W
R118	1-246-465-00	CARBON 470 5% 1/4W
R119	1-247-167-00	CARBON 33K 5% 1/4W
R120	1-247-127-00	CARBON 680 5% 1/4W
R121	1-247-153-00	(TCM-838)...CARBON 8.2K 5% 1/4W
R122	1-247-725-11	CARBON 10K 5% 1/4W
RV1	1-237-019-11	RES, VAR, CARBON 50K (VOLUME)
RV2	1-237-079-11	(TCM-838)...RES, VAR, CARBON 50K (TONE)
S101	1-570-428-11	SWITCH, SLIDE (PB/REC)
S901	1-570-430-11	SWITCH, LEAF (POWER)
S902	▲ 1-570-429-11	(E)...SWITCH, AC POWER CHANGE
SP	1-503-558-11	SPEAKER
T1	▲ 1-448-324-11	(E).....TRANSFORMER, POWER
T1	▲ 1-448-325-11	(Canadian)...TRANSFORMER, POWER
T1	▲ 1-448-326-11	(AEP).....TRANSFORMER, POWER
T1	▲ 1-448-327-11	(UK).....TRANSFORMER, POWER
T1	▲ 1-448-328-11	(US).....TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

<u>Part No.</u>	<u>Description</u>
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1-506-409-00	(E)...ADAPTOR, CONVERSION
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△ 1-558-237-11	{AEP,E).....CORD, POWER
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△ 1-558-238-11	{UK).....CORD, POWER
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△ 1-558-239-11	{US,Canadian)...CORD, POWER
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3-597-241-01	CUSHION (RIGHT)
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3-597-241-11	CUSHION (LEFT)
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3-597-244-01	BAG (A), POLYETHYLENE, STANDARD
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3-597-245-01	BAG (B), POLYETHYLENE, STANDARD
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3-597-247-01	BAG (C), POLYETHYLENE, STANDARD
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3-703-390-01	{US).....INSTRUCTION
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3-703-710-01	STICKER, SONY SYMBOL (12)
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3-760-635-11	{AEP).....MANUAL, INSTRUCTION
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3-760-635-21	{US,Canadian)...MANUAL, INSTRUCTION
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3-760-635-31	{Canadian).....MANUAL, INSTRUCTION
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3-760-635-41	{UK).....MANUAL, INSTRUCTION
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3-760-635-51	{E).....MANUAL, INSTRUCTION
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3-831-441-11	CUSHION, SPEAKER GRILLE
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3-597-204-01	{TCM-838:Canadian).....INDIVIDUAL CARTON
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3-597-205-01	{TCM-828:Canadian,AEP,UK)..INDIVIDUAL CARTON
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3-597-203-01	{TCM-838:US)...INDIVIDUAL CARTON
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3-597-206-01	{TCM-828:US)...INDIVIDUAL CARTON
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3-597-243-01	{E).....INDIVIDUAL CARTON
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