TC-D5M

US Model
AEP 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-CORDER

SPECIFICATIONS

Tape track	4-track 2-channel stereo
Fast winding time	Approx. 150 sec. with Sony C-60 Cassette
Bias frequency	85 kHz
Signal-to-noise ratio	DOLBY NR OFF • With TYPE IV cassette (Sony METALLIC) 58 dB at peak level • With TYPE III cassette (Sony DUAD) 59 dB at peak level • With TYPE II cassette (Sony JHF) 56 dB at peak level • With TYPE I cassette (Sony BHF) 53 dB at peak level DOLBY NR ON Improved by 5 dB at 1 kHz, 10 dB above 5 kHz
Total harmonic distortion	1.0% (with Sony METALLIC or DUAD)
Frequency response	DOLBY NR OFF • With TYPE IV cassette (Sony METALLIC) 20 – 19,000 Hz 30 – 17,000 Hz (±3 dB) 30 – 13,000 Hz (±3 dB, 0 VU recording) • With TYPE III cassette (Sony DUAD) 20 – 19,000 Hz 30 – 17,000 Hz (±3 dB) • With TYPE II cassette (Sony JHF) 20 – 18,000 Hz 30 – 15,000 Hz (±3 dB) • With TYPE I cassette (Sony BHF) 20 – 17,000 Hz 30 – 14,000 Hz (±3 dB)
Wow and flutter	0.06% (WRMS)
Inputs	Microphone inputs (phone jacks) sensitivity 0.25 mV (−70 dB) for a low-impedance microphone Line inputs (phono jacks) sensitivity 77.5 mV (−20 dB) input impedance more than 47 kilohms
Outputs	Line outputs (phono jacks) output level 0,435 V (−5 dB) at load impedance 47 kilohms suitable load impedance more than 10 kilohms Headphone ouput max. power output 20 mW (at load impedance 8 ohms)
Speaker	Approx. 5 cm
Power output	200 mW (EIAJ/DC)

— Continued on page 2 —

0 dB = 0.775V

SONY®
SERVICE MANUAL

General

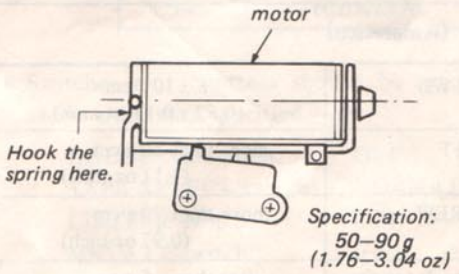
Power requirements	3 V dc, two UM-1 batteries (IEC designation R20) 100 V ac, 50/60 Hz with Sony AC-61 AC Power Adaptor (optional) 12 V car battery with Sony DCC-127A Car Battery Cord (optional)
Power consumption	12 VA (50 Hz), 11 VA (60 Hz) with Sony AC-61 AC Power Adaptor
Battery life (EIAJ)	Approx. 2 hours using Sony SUM-1S Super Batteries Approx. 1.5 hours with metal tape using SUM-1S Approx. 5.5 hours using Sony Eveready AM1 Alkaline Batteries Approx. 4 hours with metal tape using AM1
Dimensions	237×48×168 mm (w/h/d) including projecting parts and controls
Weight	1.7 kg (incl. batteries)

SECTION 3
ADJUSTMENTS

3-1. Mechanical Adjustments

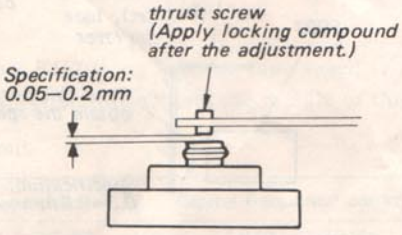
Motor Pressure Measurement

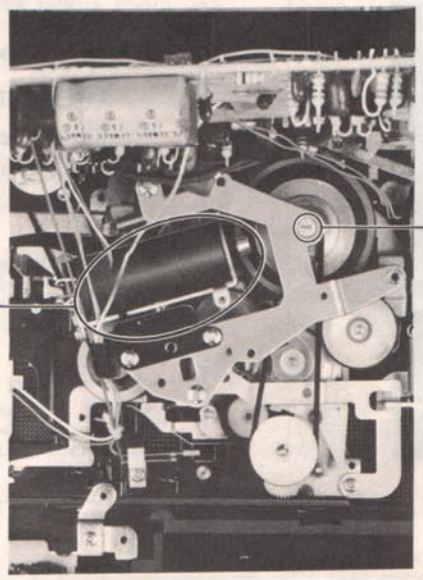
Erect the set in a perpendicular condition and push the forward (FWD) button. Pull the spring scale hooked in the position shown below. Slowly touch the flywheel with the motor pulley and read the spring scale just when the flywheel starts rotating.



Flywheel Thrust Play Adjustment

Slowly tighten the thrust screw with a screwdriver. Then loosen the thrust screw and adjust the screw position $^1/_5$–$^3/_5$ turn from the point where the thrust screw touches the capstan shaft. There should be no play.
(The clearance should be as in the following figure.).

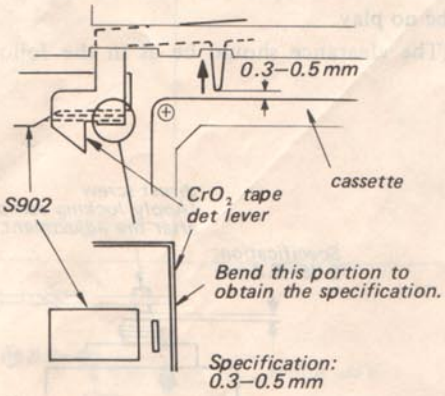




CrO_2 Tape Det Lever Adjustment

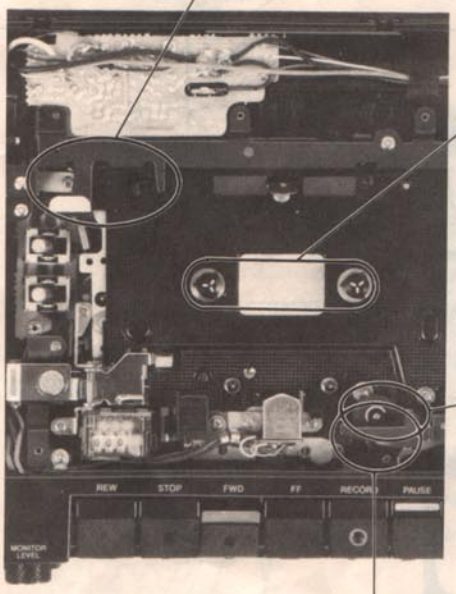
Install a cassette tape (besides CrO_2) and push the CrO_2 tape det lever in the direction of the arrow. Confirm that the clearance between the CrO_2 tape det lever and the cassette is 0.3 mm–0.5 mm.

Return the CrO_2 tape det lever in the original position and confirm that S902 is OFF. (Be sure that the miniature switch lever is pushed.)



Torques (Reference)

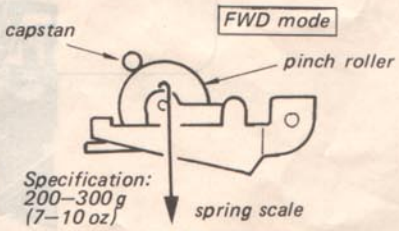
FWD	38 ± 10 g·cm (0.52 ± 0.13 oz·inch)
FF	more than 80 g·cm (1.11 oz·inch)
REW	more than 70 g·cm (0.97 oz·inch)
back tension	less than 5 g·cm (0.069 oz·inch)



Pinch Roller Pressure Measurement

– Playback Mode –

1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating.



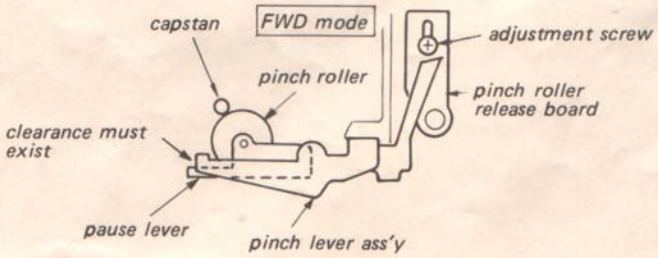
Pause Timing Adjustment

Under locked condition:

Confirm that the take-up reel spindle stops rotating without the tape being in CUE mode after the pinch roller leaves the capstan.

Under released condition:

Confirm that the pinch roller touches the capstan after the take-up reel spindle starts rotating.



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE SELECT switch according to the tape as follows.

Tape	TAPE SELECT
CS-10	NORMAL/CrO_2
CS-25	NORMAL/CrO_2
CS-30	FeCr/METAL
CS-40	FeCr/METAL

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF
TAPE SELECT switch: NORMAL/CrO_2
LIMITER switch: OFF
MIC ATT switch: 0 dB

- Standard Record

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

	MIC	LINE IN
source impedance	300 Ω	47 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

Standard Output Level

	LINE OUT (FIXED)	HEAD-PHONES
load impedance	47 kΩ	8 Ω
output level	0.44 V (-5 dB)	0.39 V (-6 dB)

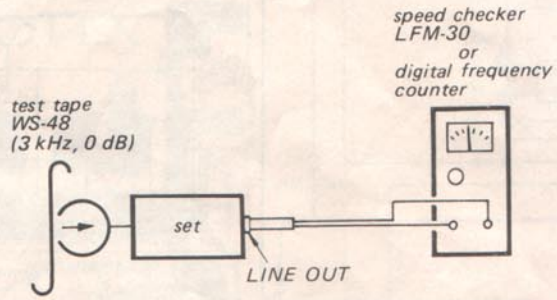
Tape Speed Adjustment

Setting:

MONITOR LEVEL : mechanical mid

Procedure:

Mode: playback



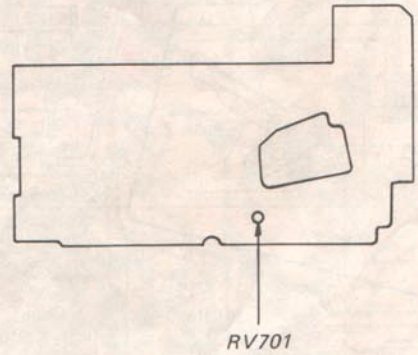
Adjust RV701 so that the tape speed is within the specification around the middle of the tape.

Specification:

Speed checker	Digital frequency counter
-1.0–+1.0%	2,970–3,030 Hz

Adjustment Location:

– audio amp board –
(conductor side)



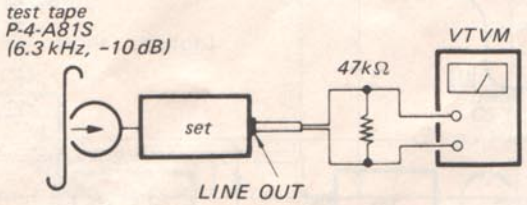
Record/playback Head Azimuth Adjustment

Setting:

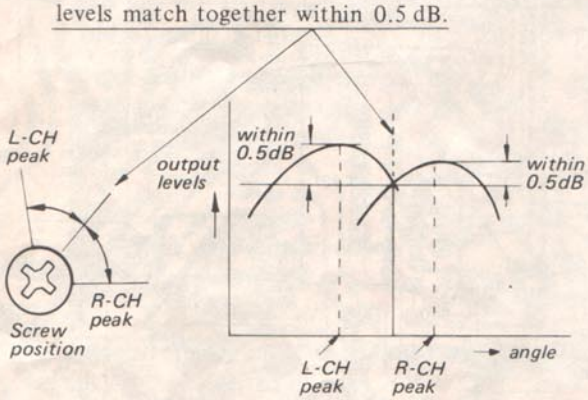
MONITOR LEVEL : mechanical mid

Procedure:

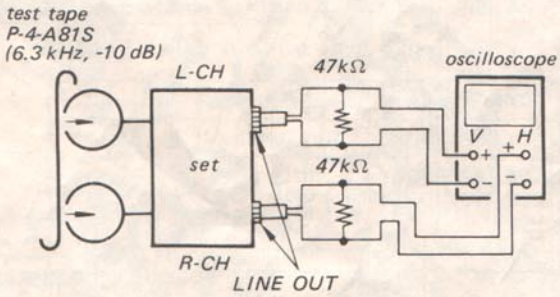
1. Mode: Playback

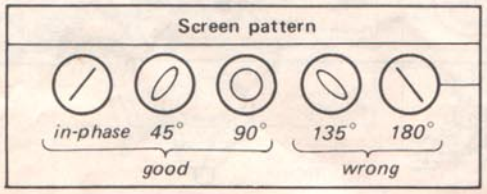


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.



3. Phase Check
   Mode: playback

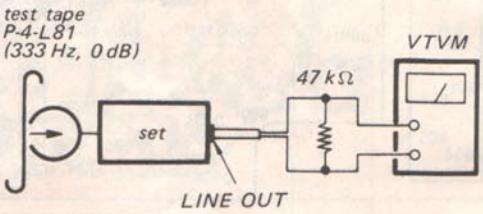




Playback Level Adjustment

Procedure:

1. Mode: Playback

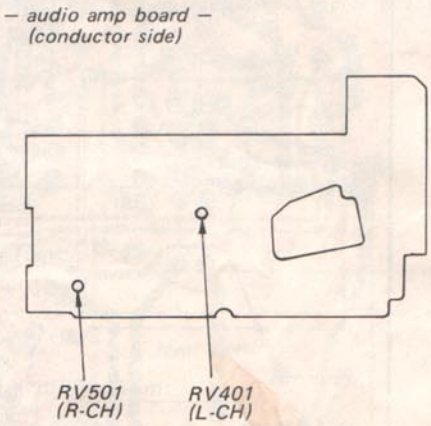


2. Adjust RV401 (L-CH) and RV501 (R-CH) so that the LINE OUT level is within the specification.

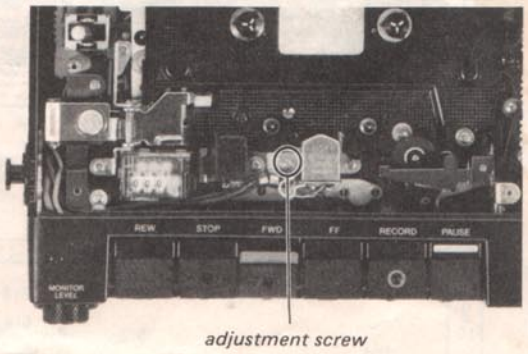
Specification:

0.55 V (-3 dB)

Adjustment Location:



Adjustment Location:

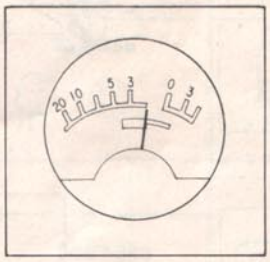


Battery Indicator Calibration Adjustment

Procedure:

Power: 2.2V dc
Mode: playback
(No cassette tape installed.)

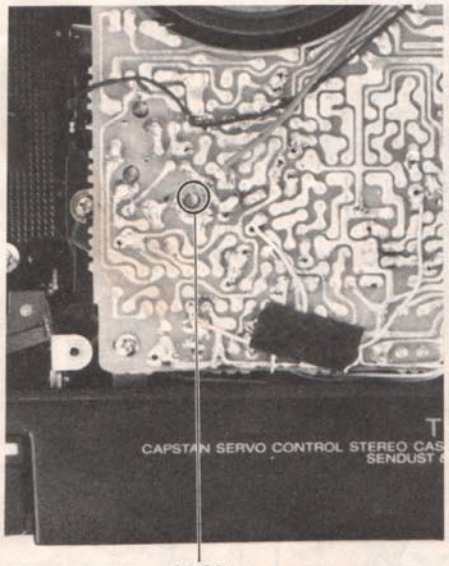
Adjust RV301 so that the pointer of the level meter is positioned as shown below when BATT CHECK/LIGHT button is pushed.



level meter

Adjustment Location:

– record board –



RV301

Record Bias Adjustment

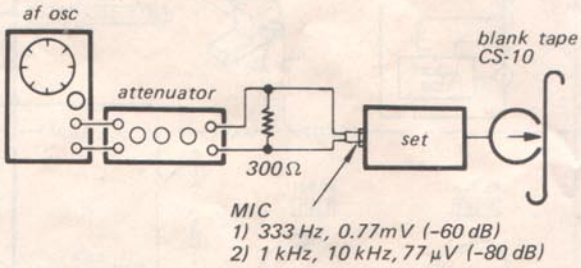
Setting:

TAPE SELECT switch: NORMAL/CrO_2
LIMITER switch: OFF

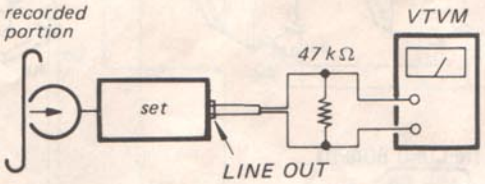
Record 333Hz signal and adjust the REC LEVEL control to obtain -5dB LINE OUT level.

Procedure:

1. Mode: record



2. Mode: playback



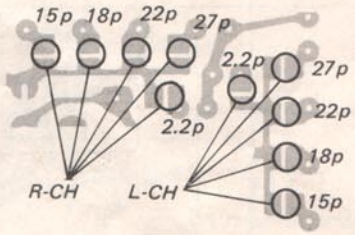
3. Playback 1 kHz, 10 kHz and adjust by changing the pattern to obtain the specified LINE OUT level. (When the specified value cannot be obtained by bridging only one pattern, then bridge another pattern.)
   When the 10 kHz output is high
   → increase the capacitance
   When the 10 kHz output is low
   → decrease the capacitance

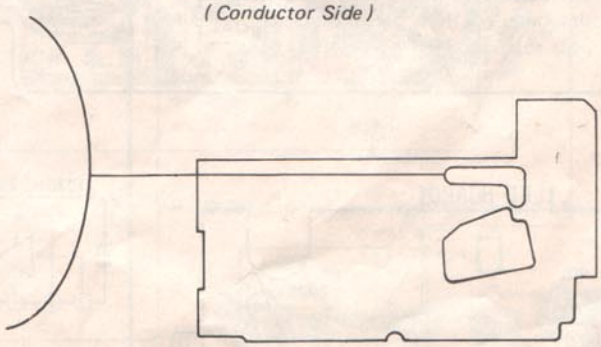
Specification:

Within 10 kHz level difference ±0.5 dB relative to 1 kHz.

Adjustment Location:

– audio amp board –
(Conductor Side)





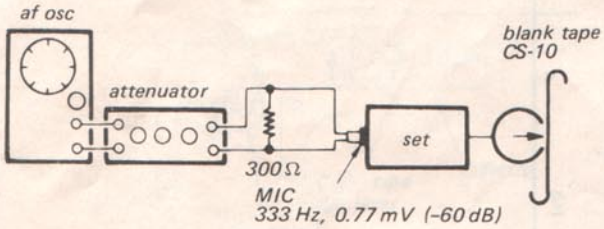
Record Level Adjustment

Setting:

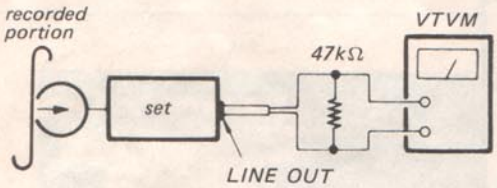
MIC ATT switch:	0 dB
LIMITER switch:	OFF
TAPE SELECT switch:	NORMAL/CrO_2
REC LEVEL control:	standard record (See page 11.)

Procedure:

1. Mode: record



2. Record -60 dB (0.77 mV), 333 Hz signal in a blank tape (CS-10).
3. Playback the recorded tape in step 2.
4. Mode: playback

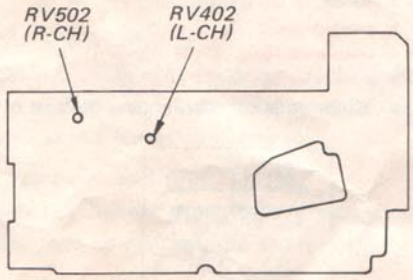


5. Repeat steps 2 and 3 and adjust RV402 (L-CH), RV502 (R-CH) so that the LINE OUT level is -5 dB.
6. Repeat steps 1 to 4 also for CS-25 and obtain the specified value.
7. Install CS-30 and set the TAPE SELECT switch to FeCr/METAL. Then adjust as in step 6.
8. Install CS-40 and adjust as in step 6.

Tape	Specification	TAPE SELECT
CS-10	-5 dB ± 0.5 dB	NORMAL/CrO_2
CS-25	-5 dB ± 2 dB	NORMAL/CrO_2
CS-30	-5 dB ± 2 dB	FeCr/METAL
CS-40	-5 dB ± 2 dB	FeCr/METAL

Adjustment Location:

– audio amp board –



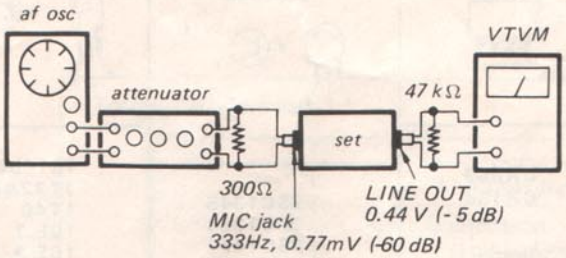
Meter Level Adjustment

Setting:

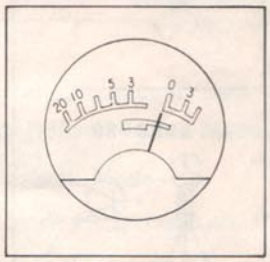
MIC ATT switch:	0 dB
LIMITER switch:	OFF
REC LEVEL control:	standard record (See page 11.)

Procedure:

1. Mode: record



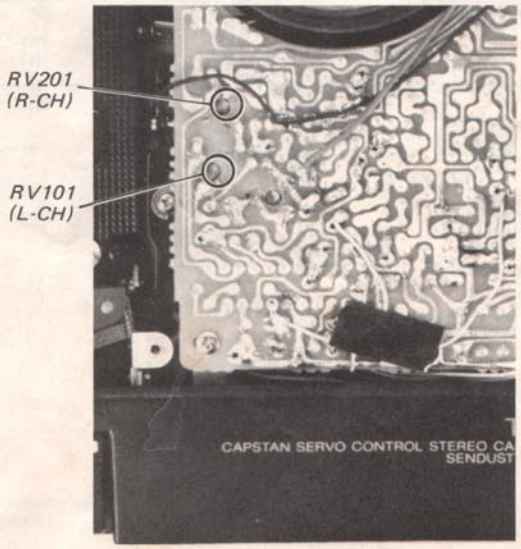
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that the pointer of the level meter points 0dB as shown below.



level meter

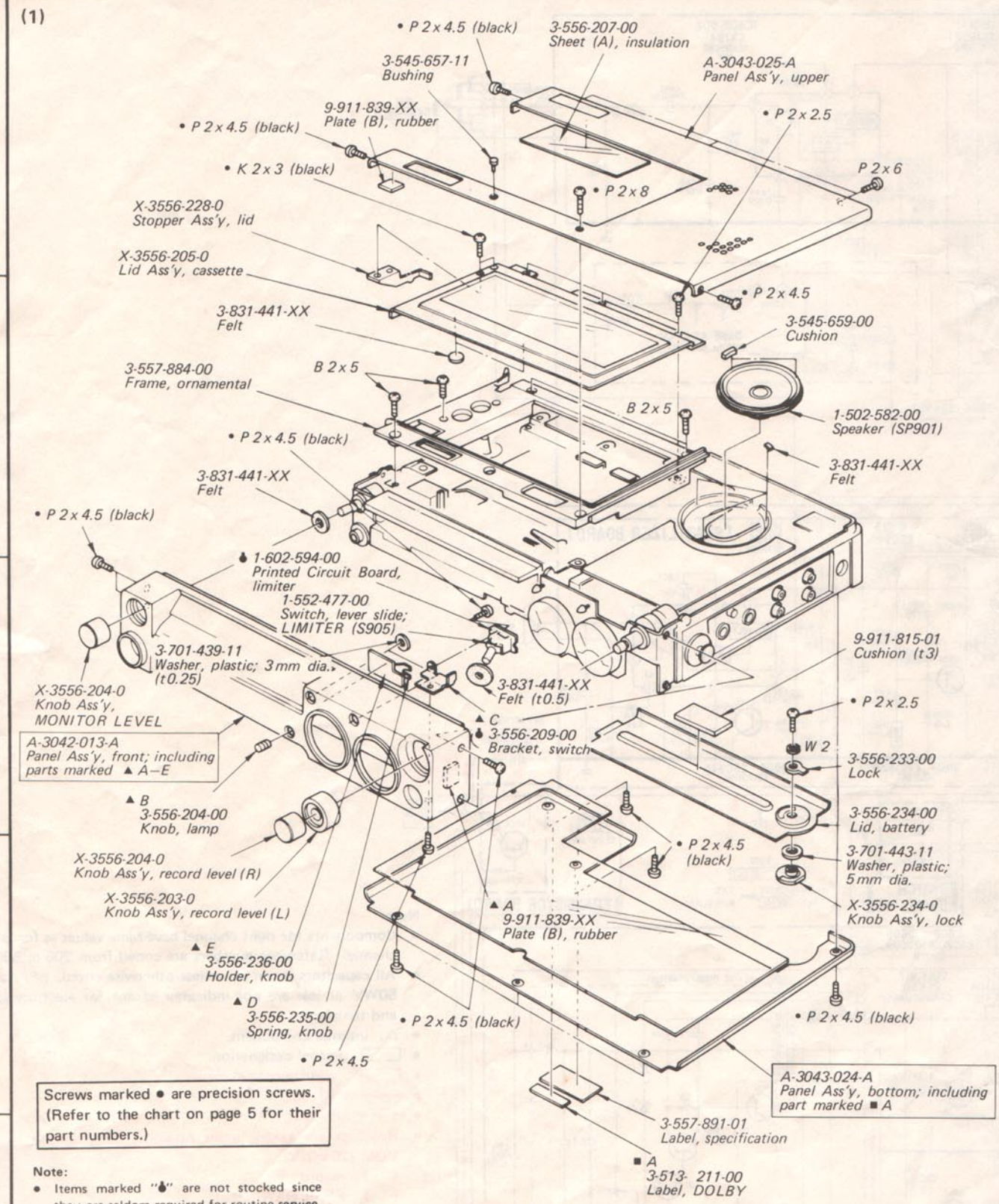
Adjustment Location:

– record board –



SECTION 5
EXPLODED VIEWS

Refer to page 5 for notes on screws.

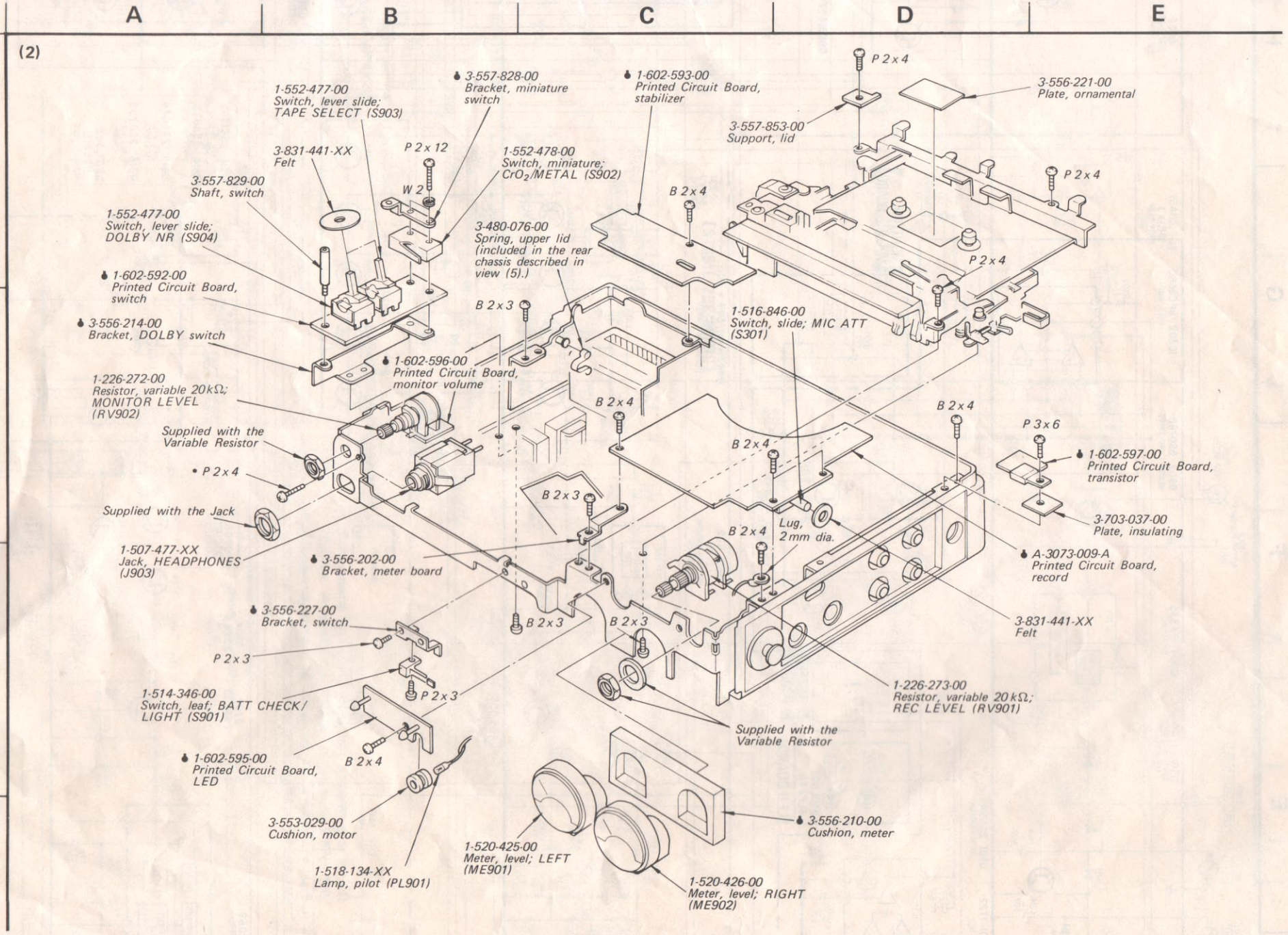


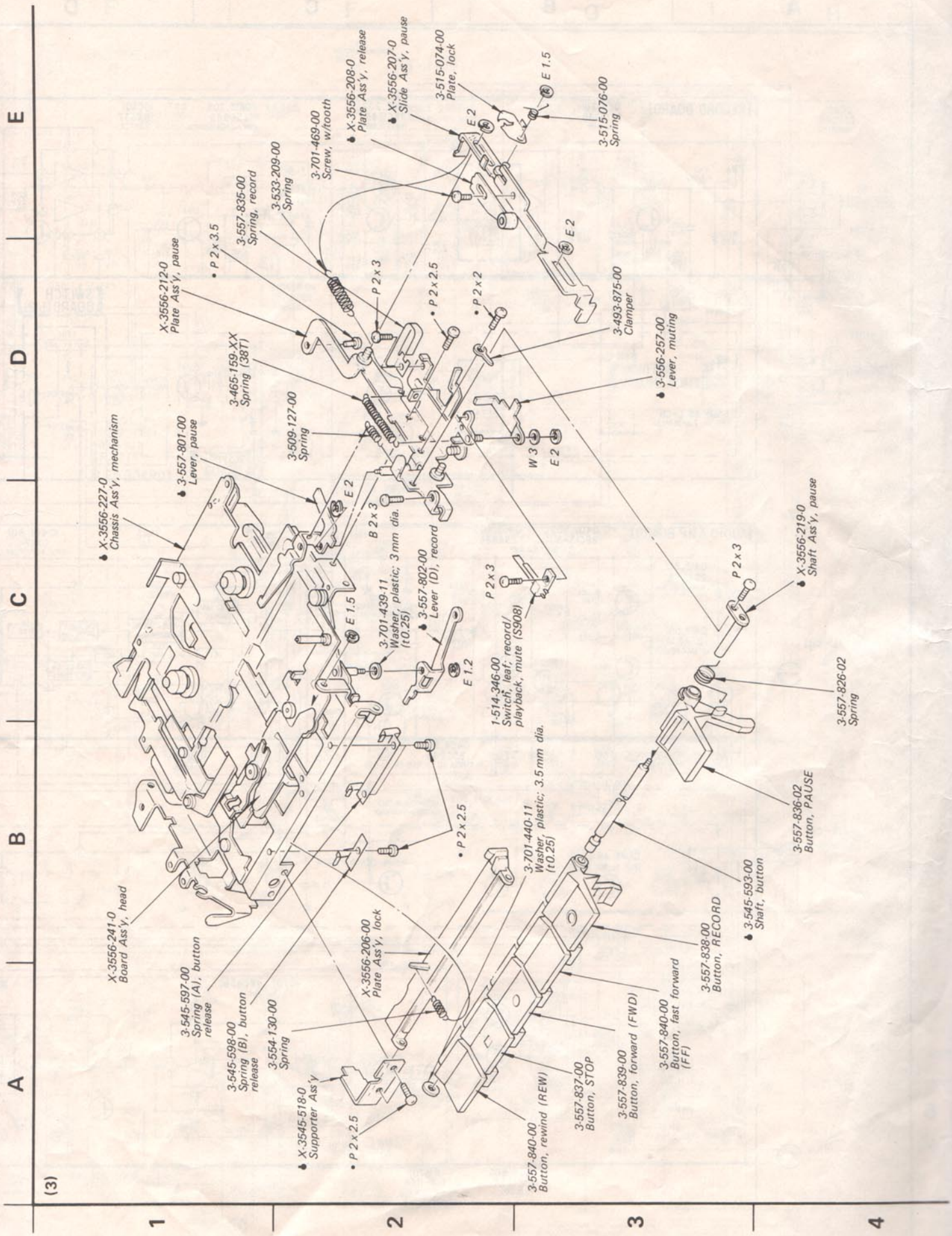
Screws marked • are precision screws. (Refer to the chart on page 5 for their part numbers.)

Note:
- Items marked "♠" 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
- (□□T) shows the number of coils in spring.

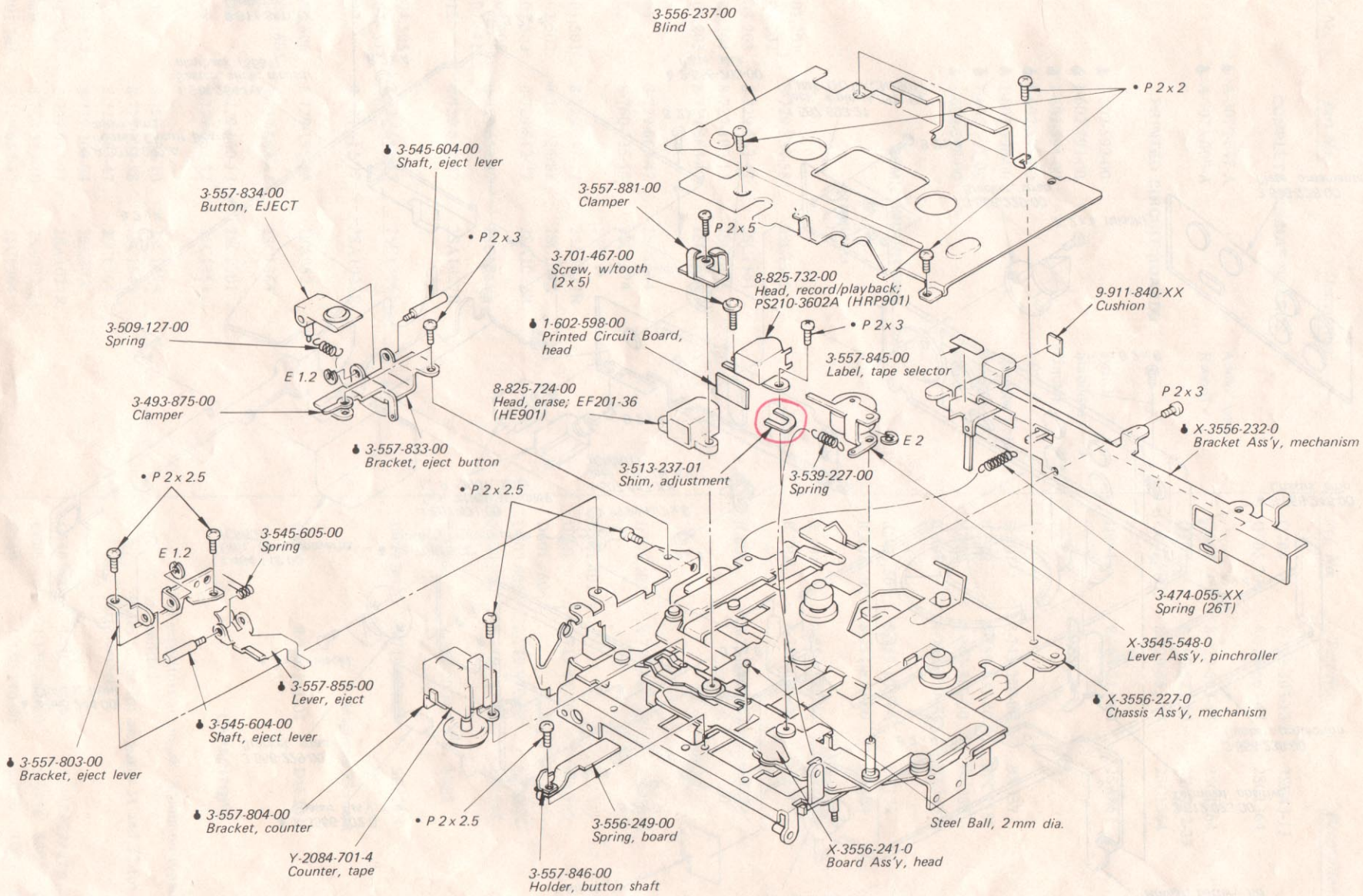
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

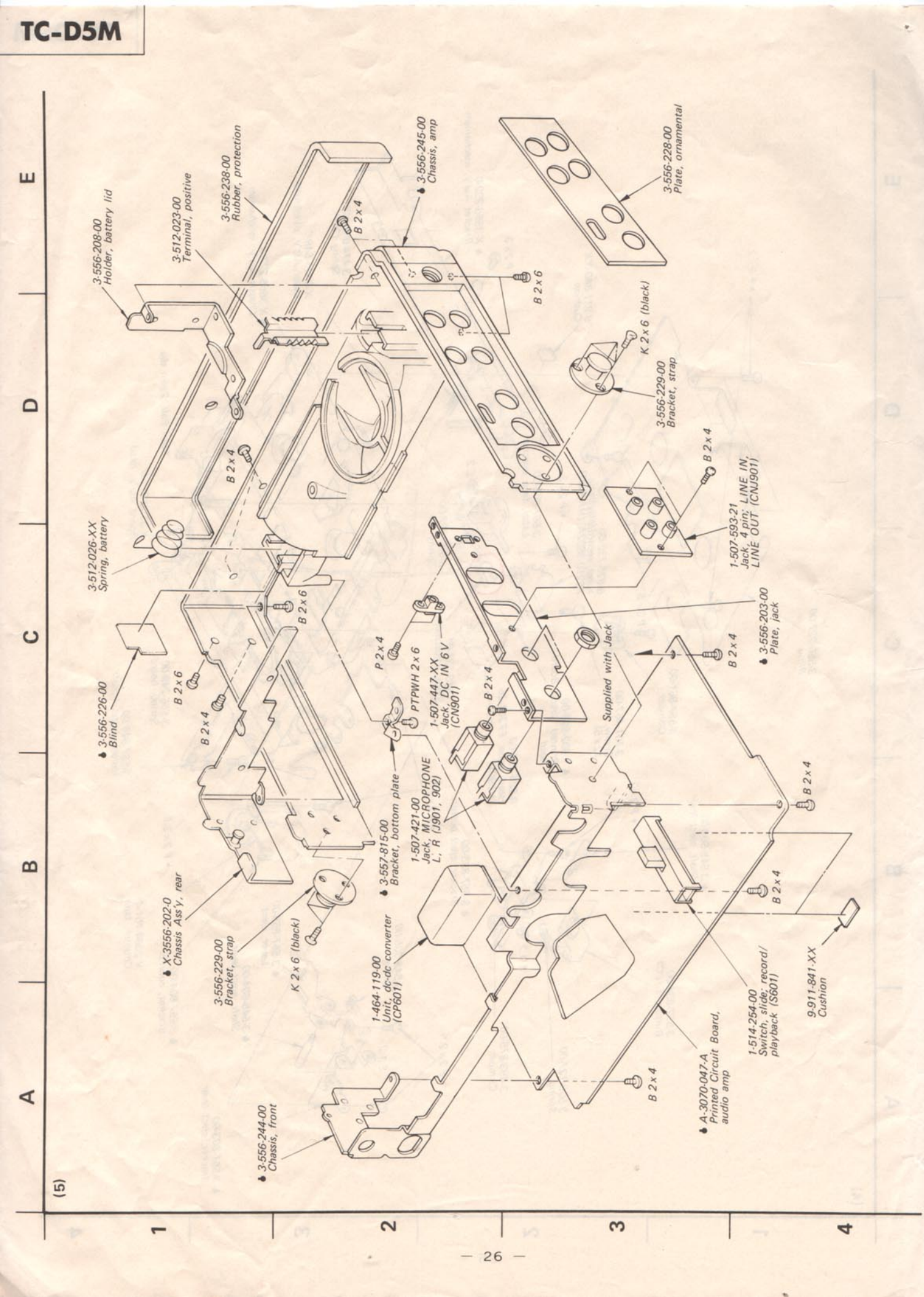
(2)

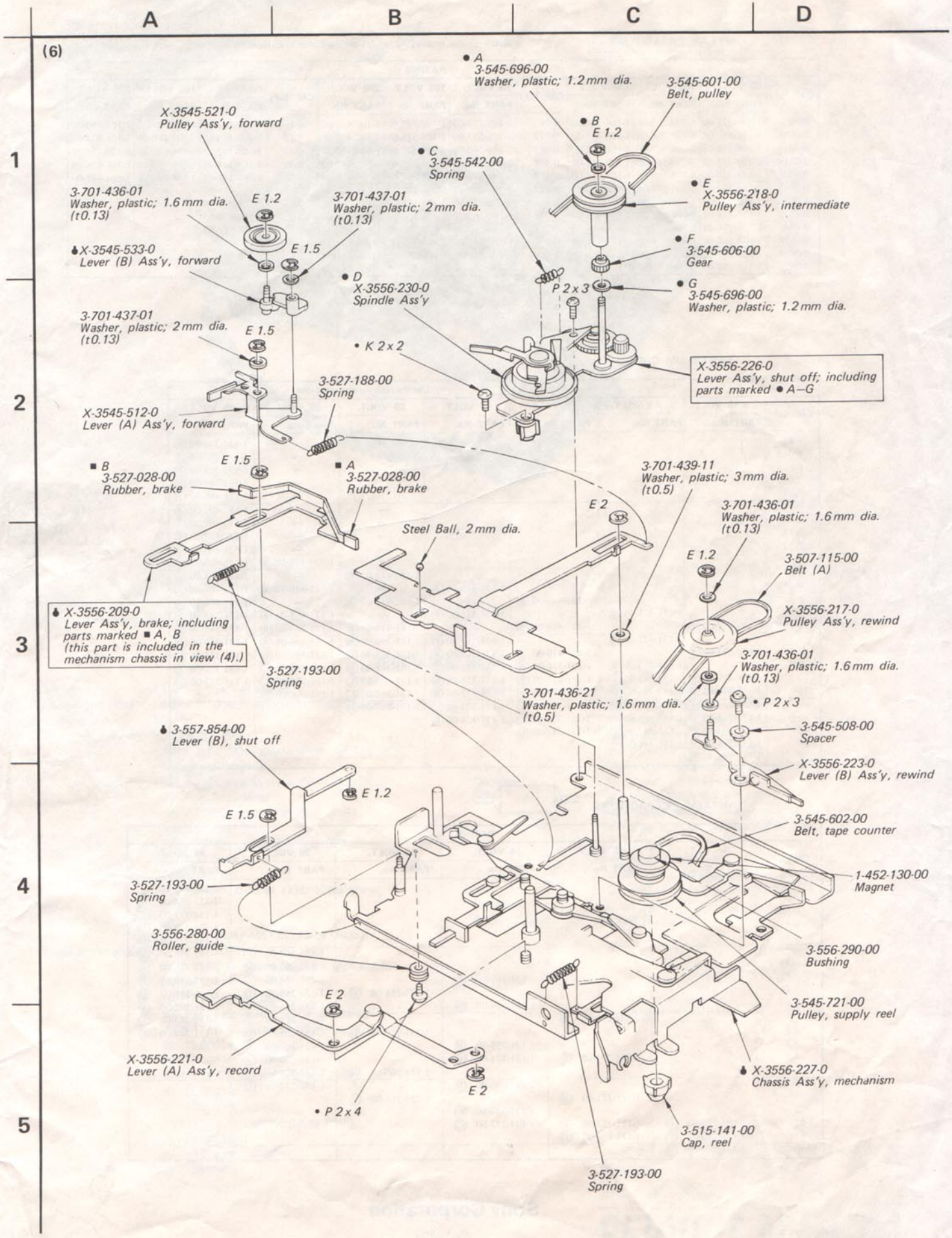

A
B
C
D
E
1
2
3
4
1-552-477-00
Switch, lever slide;
TAPE SELECT (S903)
3-557-828-00
Bracket, miniature
switch
1-602-593-00
Printed Circuit Board,
stabilizer
P 2 x 4
3-556-221-00
Plate, ornamental
3-557-853-00
Support, lid
3-831-441-XX
Felt
P 2 x 12
W 2
1-552-478-00
Switch, miniature;
CrO2/METAL (S902)
3-557-829-00
Shaft, switch
B 2 x 4
P 2 x 4
1-552-477-00
Switch, lever slide;
DOLBY NR (S904)
3-480-076-00
Spring, upper lid
(included in the rear
chassis described in
view (5).)
P 2 x 4
1-602-592-00
Printed Circuit Board,
switch
B 2 x 3
1-516-846-00
Switch, slide; MIC ATT
(S301)
3-556-214-00
Bracket, DOLBY switch
1-602-596-00
Printed Circuit Board,
monitor volume
1-226-272-00
Resistor, variable 20kΩ;
MONITOR LEVEL
(RV902)
B 2 x 4
B 2 x 4
P 3 x 6
Supplied with the
Variable Resistor
B 2 x 4
1-602-597-00
Printed Circuit Board,
transistor
• P 2 x 4
B 2 x 3
Supplied with the Jack
B 2 x 4
Lug,
2mm dia.
3-703-037-00
Plate, insulating
1-507-477-XX
Jack, HEADPHONES
(J903)
3-556-202-00
Bracket, meter board
A-3073-009-A
Printed Circuit Board,
record
3-556-227-00
Bracket, switch
B 2 x 3
B 2 x 3
3-831-441-XX
Felt
P 2 x 3
1-514-346-00
Switch, leaf; BATT CHECK/
LIGHT (S901)
P 2 x 3
1-226-273-00
Resistor, variable 20kΩ;
REC LEVEL (RV901)
Supplied with the
Variable Resistor
1-602-595-00
Printed Circuit Board,
LED
B 2 x 4
3-553-029-00
Cushion, motor
3-556-210-00
Cushion, meter
1-520-425-00
Meter, level; LEFT
(ME901)
1-518-134-XX
Lamp, pilot (PL901)
1-520-426-00
Meter, level; RIGHT
(ME902)


(3)
X-3556-227-0 Chassis Ass'y, mechanism
3-557-801-00 Lever, pause
X-3556-212-0 Plate Ass'y, pause
P 2 x 3.5
3-557-835-00 Spring, record
3-533-209-00 Spring
3-701-469-00 Screw, w/tooth
X-3556-208-0 Plate Ass'y, release
X-3556-207-0 Slide Ass'y, pause
3-515-074-00 Plate, lock
E 1.5
3-515-076-00 Spring
E 2
P 2 x 3
P 2 x 2.5
P 2 x 2
3-493-875-00 Clamper
3-556-257-00 Lever, muting
3-465-159-XX Spring (38T)
3-509-127-00 Spring
W 3
B 2 x 3
3-701-439-11 Washer, plastic; 3 mm dia. (t0.25)
3-557-802-00 Lever (D), record
E 1.2
1-514-346-00 Switch, leaf; record/playback, mute (S908)
X-3556-219-0 Shaft Ass'y, pause
3-557-826-02 Spring
3-557-836-02 Button, PAUSE
3-545-593-00 Shaft, button
3-557-838-00 Button, RECORD
3-701-440-11 Washer, plastic; 3.5 mm dia. (t0.25)
X-3556-241-0 Board Ass'y, head
3-545-597-00 Spring (A), button release
3-545-598-00 Spring (B), button release
3-554-130-00 Spring
X-3556-206-00 Plate Ass'y, lock
X-3545-518-0 Supporter Ass'y
P 2 x 2.5
3-557-840-00 Button, rewind (REW)
3-557-837-00 Button, STOP
3-557-839-00 Button, forward (FWD)
3-557-840-00 Button, fast forward (FF)
A
B
C
D
E
1
2
3
4

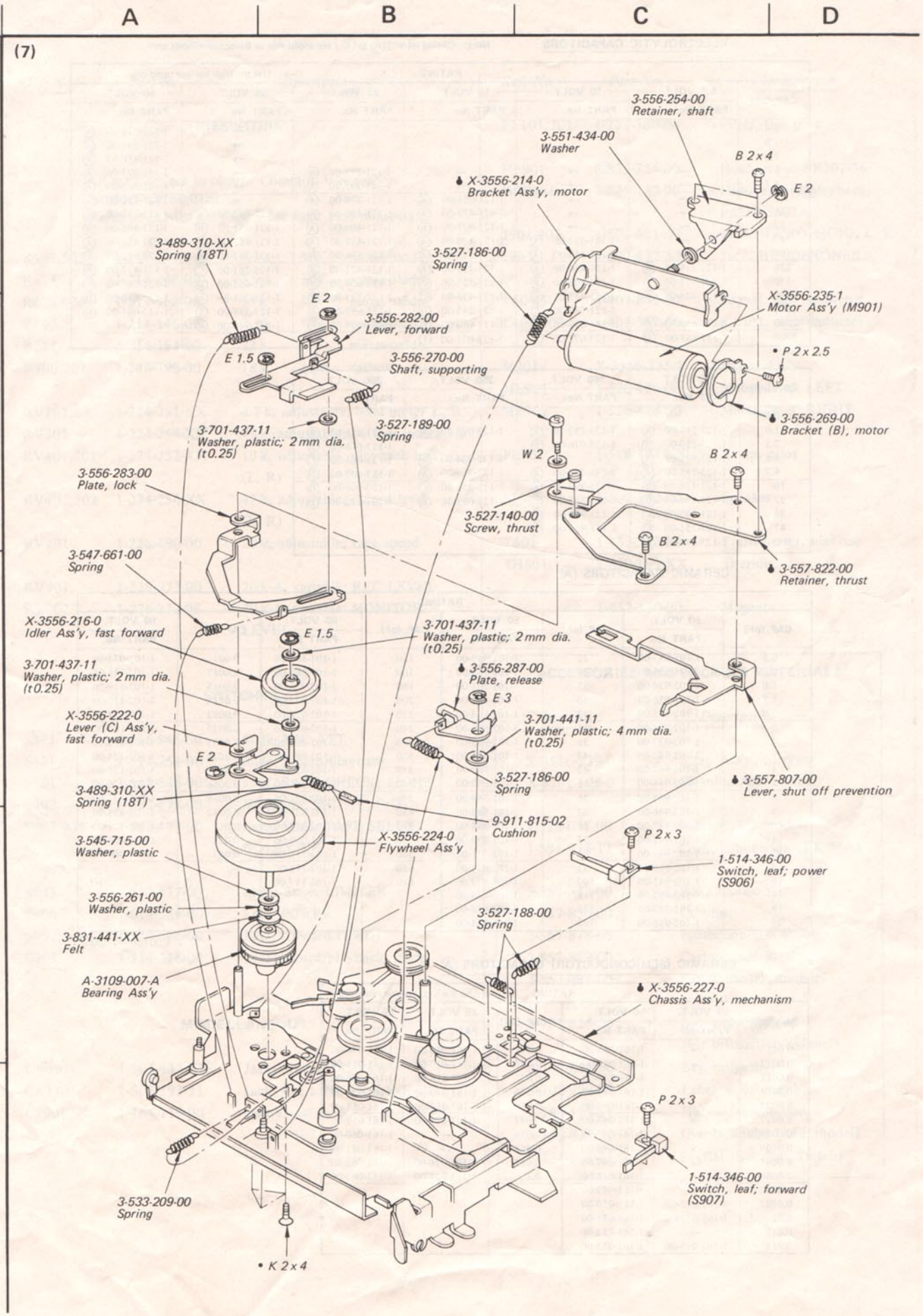
(4)


3-556-237-00
Blind
• P 2 x 2
3-545-604-00
Shaft, eject lever
3-557-834-00
Button, EJECT
3-557-881-00
Clamper
P 2 x 5
• P 2 x 3
3-701-467-00
Screw, w/tooth
(2 x 5)
8-825-732-00
Head, record/playback;
PS210-3602A (HRP901)
9-911-840-XX
Cushion
3-509-127-00
Spring
1-602-598-00
Printed Circuit Board,
head
• P 2 x 3
3-557-845-00
Label, tape selector
E 1.2
3-493-875-00
Clamper
8-825-724-00
Head, erase; EF201-36
(HE901)
P 2 x 3
X-3556-232-0
Bracket Ass'y, mechanism
E 2
3-557-833-00
Bracket, eject button
3-513-237-01
Shim, adjustment
3-539-227-00
Spring
• P 2 x 2.5
• P 2 x 2.5
3-545-605-00
Spring
E 1.2
3-474-055-XX
Spring (26T)
X-3545-548-0
Lever Ass'y, pinchroller
3-557-855-00
Lever, eject
X-3556-227-0
Chassis Ass'y, mechanism
3-545-604-00
Shaft, eject lever
3-557-803-00
Bracket, eject lever
3-557-804-00
Bracket, counter
• P 2 x 2.5
3-556-249-00
Spring, board
Steel Ball, 2mm dia.
Y-2084-701-4
Counter, tape
X-3556-241-0
Board Ass'y, head
3-557-846-00
Holder, button shaft


(5)
A
B
C
D
E
1
2
3
4
3-556-208-00 Holder, battery lid
3-512-023-00 Terminal, positive
3-556-238-00 Rubber, protection
3-556-245-00 Chassis, amp
3-556-228-00 Plate, ornamental
B 2 x 4
B 2 x 6
K 2 x 6 (black)
3-556-229-00 Bracket, strap
3-512-026-XX Spring, battery
3-556-226-00 Blind
1-507-593-21 Jack, 4 pin; LINE IN, LINE OUT (CNJ901)
3-556-203-00 Plate, jack
Supplied with Jack
P 2 x 4
PTPWH 2 x 6
1-507-447-XX Jack, DC IN 6V (CN901)
1-507-421-00 Jack, MICROPHONE L, R (J901, 902)
3-557-815-00 Bracket, bottom plate
X-3556-202-0 Chassis Ass'y, rear
1-464-119-00 Unit, dc-dc converter (CP601)
1-514-254-00 Switch, slide; record/playback (S601)
9-911-841-XX Cushion
A-3070-047-A Printed Circuit Board, audio amp
3-556-244-00 Chassis, front


A
B
C
D
(6)
1
2
3
4
5
• A
3-545-696-00
Washer, plastic; 1.2 mm dia.
3-545-601-00
Belt, pulley
X-3545-521-0
Pulley Ass'y, forward
• B
E 1.2
• C
3-545-542-00
Spring
• E
X-3556-218-0
Pulley Ass'y, intermediate
3-701-436-01
Washer, plastic; 1.6 mm dia.
(t0.13)
E 1.2
3-701-437-01
Washer, plastic; 2 mm dia.
(t0.13)
E 1.5
• F
3-545-606-00
Gear
♦X-3545-533-0
Lever (B) Ass'y, forward
• D
X-3556-230-0
Spindle Ass'y
P 2 x 3
• G
3-545-696-00
Washer, plastic; 1.2 mm dia.
3-701-437-01
Washer, plastic; 2 mm dia.
(t0.13)
E 1.5
• K 2 x 2
X-3556-226-0
Lever Ass'y, shut off; including parts marked • A–G
3-527-188-00
Spring
X-3545-512-0
Lever (A) Ass'y, forward
■ B
3-527-028-00
Rubber, brake
E 1.5
■ A
3-527-028-00
Rubber, brake
3-701-439-11
Washer, plastic; 3 mm dia.
(t0.5)
E 2
3-701-436-01
Washer, plastic; 1.6 mm dia.
(t0.13)
Steel Ball, 2 mm dia.
E 1.2
3-507-115-00
Belt (A)
♦ X-3556-209-0
Lever Ass'y, brake; including parts marked ■ A, B
(this part is included in the mechanism chassis in view (4).)
X-3556-217-0
Pulley Ass'y, rewind
3-527-193-00
Spring
3-701-436-01
Washer, plastic; 1.6 mm dia.
(t0.13)
3-701-436-21
Washer, plastic; 1.6 mm dia.
(t0.5)
• P 2 x 3
♦ 3-557-854-00
Lever (B), shut off
3-545-508-00
Spacer
X-3556-223-0
Lever (B) Ass'y, rewind
E 1.2
E 1.5
3-545-602-00
Belt, tape counter
3-527-193-00
Spring
1-452-130-00
Magnet
3-556-280-00
Roller, guide
3-556-290-00
Bushing
E 2
3-545-721-00
Pulley, supply reel
X-3556-221-0
Lever (A) Ass'y, record
♦ X-3556-227-0
Chassis Ass'y, mechanism
E 2
• P 2 x 4
3-515-141-00
Cap, reel
3-527-193-00
Spring

(7)


3-556-254-00
Retainer, shaft
3-551-434-00
Washer
B 2x4
E 2
X-3556-214-0
Bracket Ass'y, motor
3-489-310-XX
Spring (18T)
3-527-186-00
Spring
X-3556-235-1
Motor Ass'y (M901)
E 2
3-556-282-00
Lever, forward
E 1.5
P 2x2.5
3-556-270-00
Shaft, supporting
3-556-269-00
Bracket (B), motor
3-701-437-11
Washer, plastic; 2mm dia.
(t0.25)
3-527-189-00
Spring
W 2
B 2x4
3-556-283-00
Plate, lock
3-527-140-00
Screw, thrust
B 2x4
3-547-661-00
Spring
3-557-822-00
Retainer, thrust
X-3556-216-0
Idler Ass'y, fast forward
E 1.5
3-701-437-11
Washer, plastic; 2mm dia.
(t0.25)
3-701-437-11
Washer, plastic; 2mm dia.
(t0.25)
3-556-287-00
Plate, release
E 3
X-3556-222-0
Lever (C) Ass'y,
fast forward
3-701-441-11
Washer, plastic; 4mm dia.
(t0.25)
E 2
3-527-186-00
Spring
3-557-807-00
Lever, shut off prevention
3-489-310-XX
Spring (18T)
9-911-815-02
Cushion
P 2x3
3-545-715-00
Washer, plastic
X-3556-224-0
Flywheel Ass'y
1-514-346-00
Switch, leaf; power
(S906)
3-556-261-00
Washer, plastic
3-527-188-00
Spring
3-831-441-XX
Felt
A-3109-007-A
Bearing Ass'y
X-3556-227-0
Chassis Ass'y, mechanism
P 2x3
1-514-346-00
Switch, leaf; forward
(S907)
3-533-209-00
Spring
K 2x4

SECTION 6
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	COMPLETE CIRCUIT BOARDS	
♠	A-3070-047-A	Audio Amp
♠	A-3073-009-A	Record
	PRINTED CIRCUIT BOARDS	
♠	1-602-592-00	Switch
♠	1-602-593-00	Stabilizer
♠	1-602-594-00	Limiter
♠	1-602-595-00	LED
♠	1-602-596-00	Monitor Volume
♠	1-602-597-00	Transistor
♠	1-602-598-00	Head
	SEMICONDUCTORS	
	Transistors	
Q101,201 Q102,202	8-729-334-58	2SC1345
Q103,203	8-729-663-47	2SC1364
Q104,204	8-729-100-13	2SC2001
Q105,205	8-729-663-47	2SC1364
Q301	8-729-663-47	2SC1364
Q302	8-760-335-10	2SC1474
Q401,501	8-729-612-77	2SA1027R
Q402,502	8-729-334-58	2SC1345
Q403,503	8-729-612-77	2SA1027R
Q404,405 Q407–411	8-729-663-47	2SC1364
Q412	8-729-612-77	2SA1027R
Q504,505 Q507–511	8-729-663-47	2SC1364
Q512	8-729-612-77	2SA1027R
Q601,606	8-729-195-23	2SA952
Q602–605 Q607	8-729-663-47	2SC1364
Q608	8-729-100-13	2SC2001
Q609	8-729-663-47	2SC1364
Q610	8-760-335-10	2SC1474
Q611	8-729-334-58	2SC1345
Q612	8-729-663-47	2SC1364
Q613,617	8-729-203-04	2SK30A
Q614,615	8-729-612-77	2SA1027R
Q616	8-760-523-10	2SA772-23
Q701,703	8-729-663-47	2SC1364
Q702	8-729-612-77	2SA1027R
Q704	8-723-303-13	2SK43-13
Q705,706	8-729-663-47	2SC1364
Q801	8-729-663-47	2SC1364
Q802	8-760-523-10	2SA772-23
Q803–805	8-729-663-47	2SC1364
Q901	8-763-213-00	2SA861
	ICs	
IC301	8-743-370-00	BX337
IC302	8-759-135-80	μPC358C
IC303	8-743-380-00	BX338
IC304	8-743-350-00	BX335
IC401,501	8-759-101-74	CX174
IC402,502	8-751-840-00	CX184
IC701	8-759-135-80	μPC358C
IC702	8-750-690-00	CX069
IC801	8-751-840-00	CX184
	Diodes	
D101,201	8-719-422-21	1T22AM
D301,401 D501 D601–606	8-719-815-55	1S1555
D607,608	8-719-910-65	HZ6B2L
D609,610	8-719-815-55	1S1555
D801	8-719-200-02	10E2
D901,902	8-719-900-24	SLP24B
	Magnetic Element	
RM701	8-745-101-01	DM-101

CAPACITORS

All capacitors are in μF. Common capacitors are omitted.
Refer to the list on pages 31 and 32 for their part numbers.

C440,540	1-107-253-00	15+18+22+27p	500V	mica
C606	1-130-062-00	0.0056	630V	film
C710	1-130-140-00	0.039	100V	film
C901	1-102-074-00	0.001	50V	ceramic

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

Ref. No.	Part No.	Description

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on page 5 for their part numbers.

R403,503	1-214-147-00	4.3 k	¼W	metal-oxide
R624	1-214-146-00	3.9 k	¼W	metal-oxide
R625,626	1-214-168-00	33 k	¼W	metal-oxide
R627	1-214-146-00	3.9 k	¼W	metal-oxide
R714	1-214-164-00	22 k	¼W	metal-oxide
R906,907	1-246-798-00	18 k	⅛W	carbon
RV101,201	1-224-251-XX	4.7 k, adjustable; level meter L, R		
RV301	1-224-254-XX	47 k, adjustable; battery indication		
RV401,501	1-224-252-XX	10 k, adjustable; playback level (L, R)		
RV402,502	1-224-254-XX	47 k, adjustable; record level (L, R)		
RV701	1-226-490-00	20 k, adjustable; tape speed		
RV901	1-226-273-00	20 k-A, variable; REC LEVEL		
RV902	1-226-272-00	20 k-A, variable; MONITOR LEVEL		

SWITCHES

S301	1-516-846-00	Slide, MIC ATT
S601	1-514-254-00	Slide, record/playback
S901	1-514-346-00	Leaf, BATT CHECK, LIGHT
S902	1-552-478-00	Miniature, METAL, CrO_2
S903,904	1-552-477-00	Lever Slide, TAPE SELECT, DOLBY NR
S905	1-552-477-00	Lever Slide, LIMITER
S906	1-514-346-00	Leaf, POWER
S907	1-514-346-00	Leaf, forward (FWD)
S908	1-514-346-00	Leaf, record/playback, mute

MISCELLANEOUS

CN901	1-507-447-XX	Jack, power; DC IN 6V
CNJ901	1-507-593-21	Jack, 4p; LINE IN, LINE OUT
CP601	1-464-119-00	Convertor, dc-dc
FL101,201	1-231-388-00	Filter, low pass
HE901	8-825-724-00	Head, erase; EF201-36
HRP901	8-825-732-00	Head, record/playback, PS210-3602A
J901,902	1-507-421-00	Jack, MICROPHONE L, R
J903	1-507-477-XX	Jack, HEADPHONES
L401,501	1-407-879-00	33 mH, microinductor
L402,502	1-408-352-00	6.8 μH, microinductor
M901	X-3556-235-1	Motor Ass'y
ME901	1-520-425-00	Meter, level; LEFT
ME902	1-520-426-00	Meter, level; RIGHT
PL901	1-518-134-XX	Lamp, pilot
SP901	1-502-582-00	Speaker
T601	1-433-223-00	Transformer, bias osc
TH801	1-800-199-XX	Thermistor
	1-452-130-00	Magnet

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
X-3556-239-0	Strap Ass'y, carrying
X-3701-105-0	Cleaning Ass'y, head
1-528-057-00	Battery (US model)
1-551-734-11	Cord, connection (RK-74A)
3-557-848-00	Box, accessory
3-557-850-00	Cushion
3-557-878-00	Protection (US model)
3-557-889-00	Carton, individual
3-557-891-00	Label, model number
3-701-625-00	Bag, polyethylene (for instruction manual)
3-701-631-00	Bag, polyethylene
3-701-999-00	Label, serial number
3-783-175-11	Manual, instruction
3-793-828-11	Questionnaire (AEP model)
3-794-934-11	Leaflet (Swedish, Dutch)

677-1
n Japan

ELECTROLYTIC CAPACITORS

Note: Circled letter (Ⓐ to Ⓩ) are applicable to European models only.

RATING → : Use the high voltage rated one.

CAP. (μF)	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.	50 VOLT. PART No.
0.47					→	1-121-726-00 Ⓐ
1.0					→	1-121-391-00 Ⓐ
2.2					→	1-121-450-00 Ⓐ
3.3	→	→	→	1-121-392-00 Ⓐ	→	1-121-393-00 Ⓐ
4.7	→	→	→	1-121-395-00 Ⓐ	→	1-121-396-00 Ⓐ
10	→	→	1-121-651-00 Ⓐ	1-121-398-00 Ⓐ	→	1-121-738-00 Ⓐ
22	→	→	1-121-479-00 Ⓐ	1-121-480-00 Ⓐ	1-121-662-00 Ⓐ	1-121-152-00 Ⓐ
33	→	→	1-121-403-00 Ⓐ	1-121-404-00 Ⓐ	1-121-652-00 Ⓑ	1-121-405-00 Ⓐ
47	→	1-121-352-00 Ⓐ	1-121-409-00 Ⓐ	1-121-410-00 Ⓐ	1-121-653-00 Ⓑ	1-121-411-00 Ⓐ
100	→	1-121-414-00 Ⓐ	1-121-415-00 Ⓐ	1-121-416-00 Ⓐ	1-121-357-00 Ⓑ	1-121-417-00 Ⓑ
220	1-121-419-00 Ⓑ	1-121-420-00 Ⓑ	1-121-421-00 Ⓐ	1-121-422-00 Ⓑ	1-121-261-00 Ⓒ	1-121-423-00 Ⓑ
330	1-121-751-00 Ⓑ	1-121-805-00 Ⓑ	1-121-521-00 Ⓒ	1-121-654-00 Ⓑ	1-121-655-00 Ⓓ	1-121-656-00 Ⓒ
470	1-121-424-00 Ⓑ	1-121-425-00 Ⓒ	1-121-426-00 Ⓒ	1-121-733-00 Ⓑ	1-121-361-00 Ⓔ	1-121-810-00 Ⓓ
1000	–	1-121-736-00 Ⓒ	1-121-245-00 Ⓓ	1-121-657-00 Ⓓ	1-121-388-00 Ⓔ	1-123-061-00 Ⓕ
2200	1-121-658-00 Ⓑ	1-121-659-00 Ⓒ	1-121-660-00 Ⓓ	1-123-067-00 Ⓕ	1-121-984-00 Ⓕ	–
3300	1-121-661-00 Ⓓ	1-123-075-00 Ⓔ	1-123-071-00 Ⓕ	–	–	–

CAP. (μF)	100 VOLT. PART No.	160 VOLT. PART No.	250 VOLT. PART No.	350 VOLT. PART No.
0.47	–	–	–	–
1.0	1-123-249-00 Ⓐ	1-123-252-00 Ⓐ	1-123-003-00 Ⓑ	1-121-168-00 Ⓑ
2.2	1-123-250-00 Ⓐ	1-123-026-00 Ⓑ	–	1-123-028-00 Ⓑ
3.3	1-121-995-00 Ⓐ	–	1-123-004-00 Ⓑ	1-123-006-00 Ⓒ
4.7	1-123-255-00 Ⓐ	1-121-246-00 Ⓑ	1-121-759-00 Ⓑ	1-123-007-00 Ⓓ
10	1-121-126-00 Ⓑ	1-121-999-00 Ⓑ	1-123-254-00 Ⓒ	1-123-008-00 Ⓓ
22	1-121-996-00 Ⓒ	1-123-253-00 Ⓒ	1-123-005-00 Ⓓ	1-123-022-00 Ⓓ
33	1-121-997-00 Ⓒ	1-121-757-00 Ⓒ	–	–
47	1-123-251-00 Ⓒ	1-121-919-00 Ⓒ	–	–
100	1-123-084-00 Ⓔ	–	–	–

CERAMIC CAPACITORS Ⓐ

RATING

CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS Ⓐ

RATING → : Use the high voltage rated one.

CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLAR CAPACITORS Ⓐ

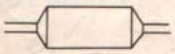
Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
	RATING										
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

TANTALUM CAPACITORS

→: Use the high voltage rated one.

CAP. (μF)	3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
	RATING						
0.01					→	→	1-131-396-00 Ⓑ
0.015						→	1-131-397-00 Ⓑ
0.022						→	1-131-398-00 Ⓑ
0.033						→	1-131-399-00 Ⓑ
0.047						→	1-131-400-00 Ⓑ
0.068					→	→	1-131-401-00 Ⓑ
0.1					→	→	1-131-402-00 Ⓑ
0.15					→	→	1-131-403-00 Ⓑ
0.22					→	→	1-131-404-00 Ⓑ
0.33					→	1-131-409-00 Ⓑ	1-131-405-00 Ⓑ
0.47	–	–	–	–	1-131-412-00 Ⓑ	→	1-131-406-00 Ⓑ
0.68	–	–	–	1-131-415-00 Ⓑ	→	1-131-410-00 Ⓑ	1-131-407-00 Ⓑ
1.0	–	–	1-131-418-00 Ⓑ	–	1-131-413-00 Ⓑ	→	1-131-408-00 Ⓑ
1.5	–	1-131-421-00 Ⓑ	–	1-131-416-00 Ⓑ	→	1-131-411-00 Ⓑ	1-131-348-00 Ⓑ
2.2	1-131-424-00 Ⓑ	–	1-131-419-00 Ⓑ	–	1-131-414-00 Ⓑ	1-131-355-00 Ⓑ	1-131-349-00 Ⓑ
3.3	–	1-131-422-00 Ⓑ	–	1-131-417-00 Ⓑ	1-131-362-00 Ⓑ	1-131-356-00 Ⓑ	1-131-350-00 Ⓑ
4.7	1-131-425-00 Ⓑ	–	1-131-420-00 Ⓑ	1-131-369-00 Ⓑ	1-131-363-00 Ⓑ	1-131-357-00 Ⓑ	1-131-351-00 Ⓒ
6.8	–	1-131-423-00 Ⓑ	1-131-376-00 Ⓑ	1-131-370-00 Ⓑ	1-131-364-00 Ⓑ	1-131-358-00 Ⓒ	1-131-352-00 Ⓒ
10	1-131-426-00 Ⓑ	1-131-383-00 Ⓑ	1-131-377-00 Ⓑ	1-131-371-00 Ⓑ	1-131-365-00 Ⓒ	1-131-359-00 Ⓒ	1-131-353-00 Ⓓ
15	1-131-390-00 Ⓑ	1-131-384-00 Ⓑ	1-131-378-00 Ⓑ	1-131-372-00 Ⓑ	1-131-366-00 Ⓒ	1-131-360-00 Ⓓ	
22	1-131-391-00 Ⓑ	1-131-385-00 Ⓑ	1-131-379-00 Ⓒ	1-131-373-00 Ⓒ	1-131-367-00 Ⓓ		
33	1-131-392-00 Ⓑ	1-131-386-00 Ⓒ	1-131-380-00 Ⓒ	1-131-374-00 Ⓓ			
47	1-131-393-00 Ⓒ	1-131-387-00 Ⓒ	1-131-381-00 Ⓓ	–			
68	1-131-394-00 Ⓑ	1-131-388-00 Ⓒ	–	–			
100	1-131-395-00 Ⓓ	–	–	–			



TANTALUM CAPACITORS

CAP. (μF)	3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
	RATING					
0.033						1-131-273-00 Ⓔ
0.047						1-131-274-00 Ⓔ
0.068						1-131-275-00 Ⓔ
0.1						1-131-276-00 Ⓓ
0.15						1-131-277-00 Ⓓ
0.22			–	–	1-131-262-00 Ⓓ	1-131-278-00 Ⓓ
0.33			–	–	1-131-263-00 Ⓓ	1-131-279-00 Ⓓ
0.47			1-131-169-00 Ⓓ	–	1-131-264-00 Ⓓ	1-131-280-00 Ⓓ
0.68			–	1-131-258-00 Ⓓ	1-131-265-00 Ⓓ	1-131-281-00 Ⓓ
1.0			1-131-254-00 Ⓓ	–	1-131-266-00 Ⓓ	1-131-282-00 Ⓓ
1.5		1-131-250-00 Ⓓ	–	–	1-131-267-00 Ⓓ	1-131-283-00 Ⓔ
2.2		–	–	1-131-259-00 Ⓓ	1-131-268-00 Ⓓ	1-131-284-00 Ⓔ
3.3		–	1-131-255-00 Ⓓ	–	1-131-269-00 Ⓓ	–
4.7		1-131-251-00 Ⓔ	1-131-171-00 Ⓓ	–	1-131-270-00 Ⓓ	–
6.8		–	–	1-131-260-00 Ⓓ	1-131-271-00 Ⓔ	–
10	–	–	1-131-256-00 Ⓓ	–	1-131-272-00 Ⓔ	–
15	–	1-131-252-00 Ⓓ	–	1-131-261-00 Ⓔ		
22	–	–	1-131-257-00 Ⓔ	–		
33	1-131-176-00 Ⓓ	1-131-253-00 Ⓔ	1-131-173-00 Ⓒ	–		
47	1-131-288-00 Ⓕ	1-131-174-00 Ⓓ	–	–		
100	1-131-177-00 Ⓓ					

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