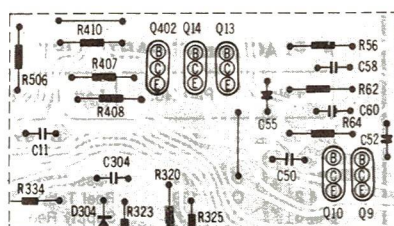


CIRCUIT BOARDS

MAIN CIRCUIT BOARD



[NIA] * For Australia, Asia, Latin America, Middle East and Africa areas.

IC401 AN6256

1	10.3V
2	1V
3	2.1V
4	-0.05V (9.7V)
5	-0.05V (9.7V)
6	-10.9V
7-11	0V
12	-10.9V
13-16	0V

Q13, 14 2SD636

E	0V
C	0V
B	Dubbing speed high 0.7V

Q9, 10 2SD636

E	0V
C	0V
B	0.7V Dubbing speed high 0.4V

IC6 AN6552

1-3	0V
4	-10.4V
5-7	0V
8	10V

Q5, 6 2SD636

E	0V
C	0V
B	0.7V (0V)

Q11, 12 2SD636

E	0V
C	0V
B	Stop 0.7V

IC5 M

1-3	0V
4	0V
5-7	0V
8	0V

Q402 2SD592
[DB] * For all European areas.
[NIA] * For Australia, Asia Latin America, Middle East and Africa areas.

E	-10.9V (9.3V)
C	-10.5V (10.2V)
B	-10.5V (10.0V)

Q501 2SD636

E	0V
C	0V cue/review
B	0.7V cue/review 0.3V

Connection point (B)

IC501 BA336

1	10.3V
2-5	0V
6	1V
7	0V
8	0.1V
9	0.03V

Connection point (A)

Q306 2SD636

E	-8.6V
C	-0.6V
B	-7.9V

[DB] * For All European areas.

Q301, 302, 303, 304 2SD636

E	0V
C	0V
B	0.7V (-0.5V)

Q305 2SD636

E	0V
C	0V
B	0.7V MIC IN 0V

Q205, 206 2SD636

E	0V
C	0V
B	0.7V TAPE 1 Normal 0.1V

Q207, 208 2SD636

E	0V
C	0V
B	0.7V TAPE 1 PLAY -0.2V

Q209, 210 2SD636

E	0V
C	0V
B	0V Dubbing speed high TAPE 1 Metal 0.7V

Q203, 204 2SD636

E	0V
C	0V
B	0.7V TAPE 1 PLAY -0.2V

IC201 M5219L

1-3	0V
4	-5.8V
5-7	0V
8	5.2V

Q106 2SB641

E	-10.3V Dubbing speed high 10V
C	-0.5V Dubbing speed high 9.9V
B	10.3V Dubbing speed high 9.3V

Q201, 202 2SD636

E	0V
C	0V
B	0.7V Dubbing speed high 0.4V

Q1, 2 2SD636

E	0V
C	0V
B	0.7V (0.7V)

IC2 AN6552

1-3	0V
4	-6.6V
5-7	0V
8	6.6V

IC1 M5219L

1-3	0V
4	-6.6V
5-7	0V
8	6.6V

Q307 2SB641

E	10.3V (0V) PLAY Dubbing mix ing SW ON -0.2V
C	10.3V (-0.7V) PLAY Dubbing mix ing SW ON -0.5V
B	9.5V (0V) PLAY Dubbing mix ing SW ON -1.0V

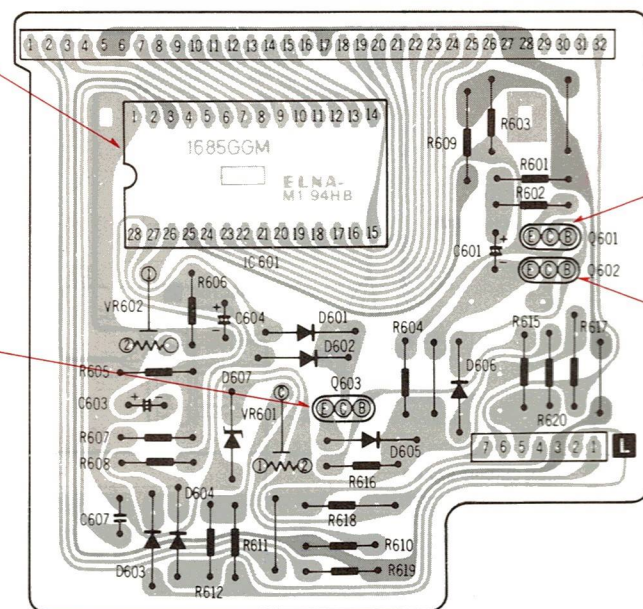
METER CIRCUIT BOARD

N6870N

-10.9V
-8.5V
10.3V
0.5V
0.5V
-10.8V
6.2V Stop時 -11V
6.3V
-8.4V
-9.1V
-9.1V

SD636

1.7V Stop時 -10.4V
0V Stop時 -10.4V
0.9V Stop時 -9.7V



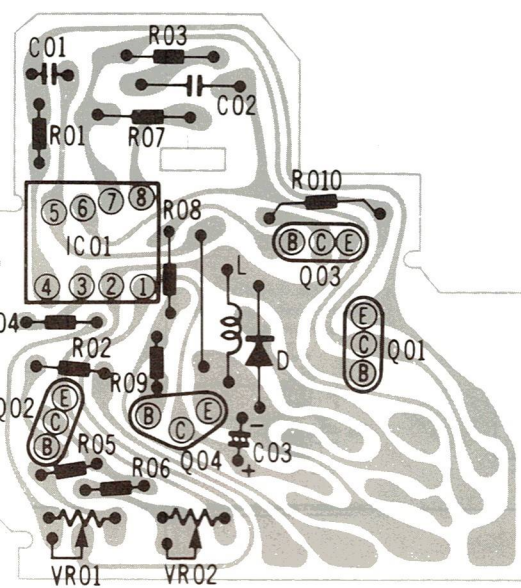
Q601 2SB641

E	—	Stop時 -10.3V
C	-10.4V	Stop時 -10.3V
B	-6.3V	Stop時 -10.9V

Q602 2SD636

E	-11V	Stop時 -11V
C	-6.3V	Stop時 -10.9V
B	-10.4V	Stop時 -10.3V

TOR GOVERNOR CIRCUIT BOARD (TAPE 1, TAPE 2)



NOTES:

- The circuit shown in [] on the conductor side indicates printed circuit on the back side of the printed circuit board.
- Voltage values indicated in [] are under no signal condition and playback mode with volume control at minimum position otherwise specified.
- () Voltage at record mode.
- TAPE 1 PLAY Voltage at playback mode (TAPE 1).
- TAPE 1 Normal Voltage at Normal tape mode (TAPE 1).
- Dubbing speed high tape Metal..... Voltage at Dubbing speed high, Metal tape mode.
- PLAY DUBBING/MIXING SW ON..... Voltage at playback, dubbing/mixing on mode.
- CUE/REVIEW Voltage at CUE/REVIEW mode.
- Dubbing speed high..... Voltage at Dubbing speed high mode.
- STOP Voltage at STOP mode.
- TAPE 1 PAUSE Voltage at Pause mode (TAPE 1).
- MIC IN..... Voltage at MIC IN mode (Auto INPUT selector).
- For measurement use VTVM.
- [D] For all European areas, except United Kingdom.
- [B] For United Kingdom.
- [N] For Asia, Latin America, Middle East and Africa areas.
- [A] For Australia.
- This circuit board diagram may be modified at any time with the development of new technology.

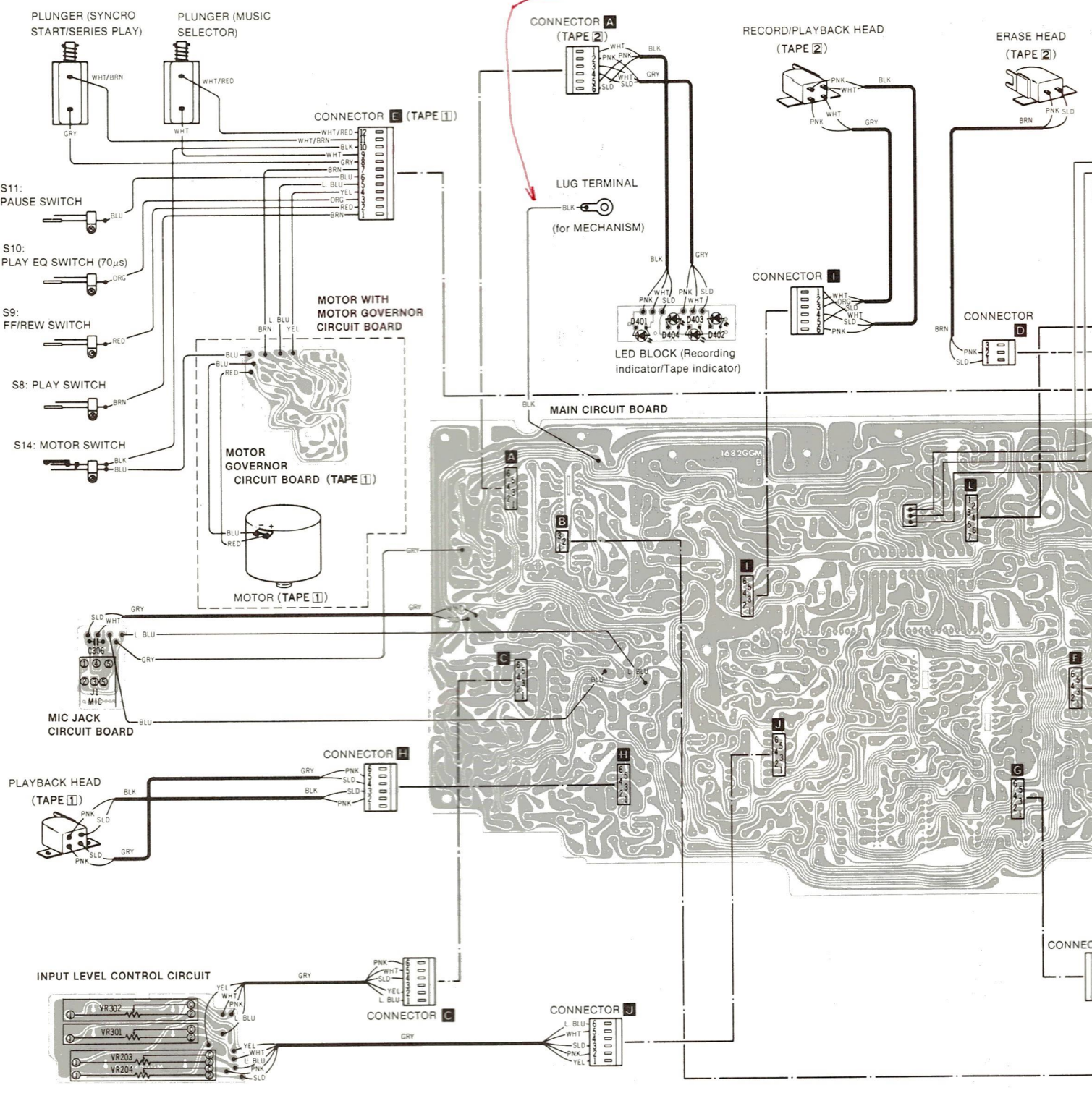
TERMINATIONS

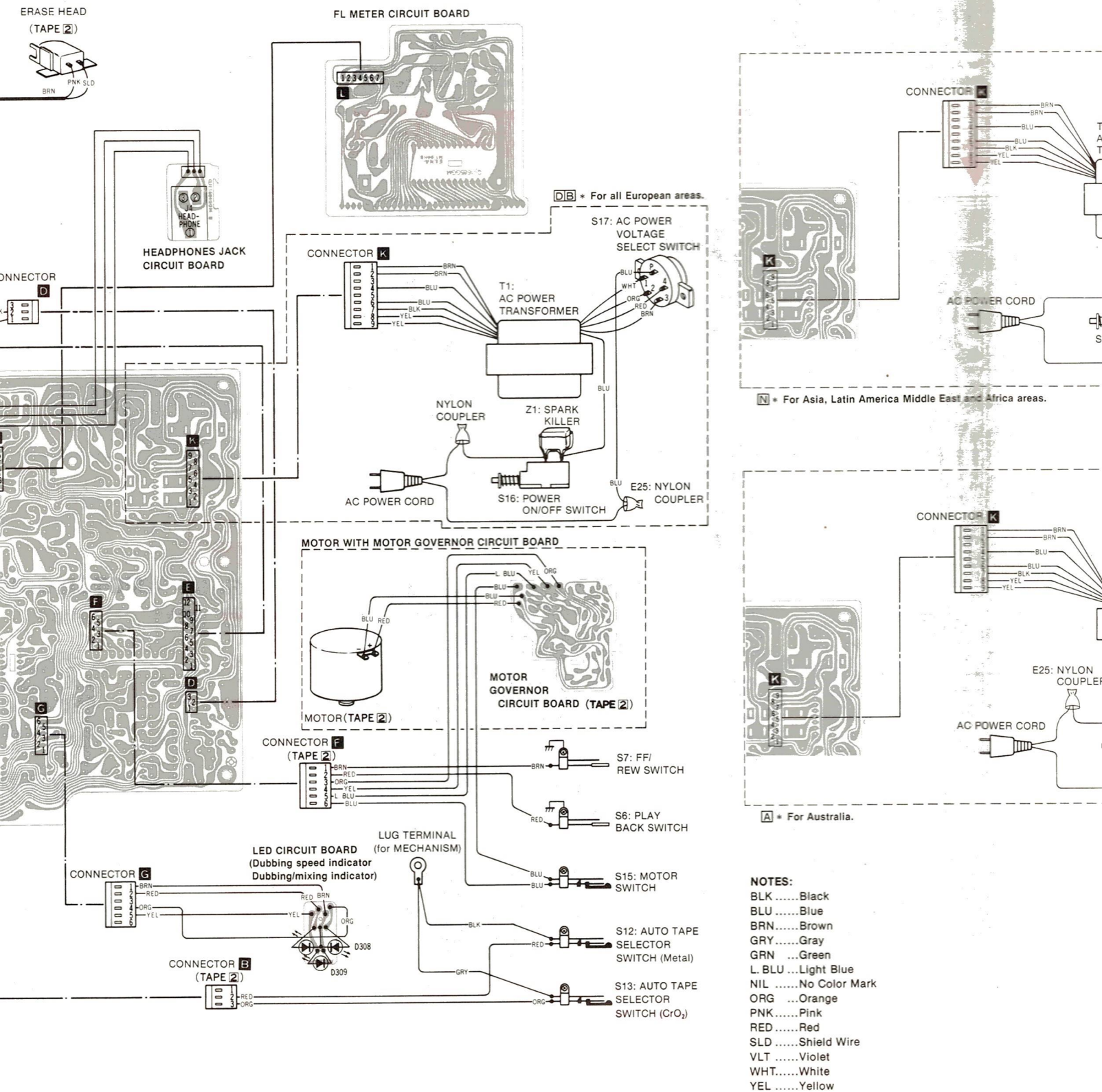
IC1, 201	Ca Blue A → Ca
IC2, 6	Black Ca A → Ca
IC3, 4, 401	D138
IC5	Ca A → A
IC501	D308
IC601	Green Blue Ca A → Ca
Q1-6, 9-14, 102-114, 201-211, 301-307, 402, 501, 601-603	D607
Q401, 703	Red Ca A → Ca
Q115, 701, 702	MPX1, 2
D101-113, 117-134, 136, 137, 301, 302, 304-307, 405, 406, 601-606	Marking L401

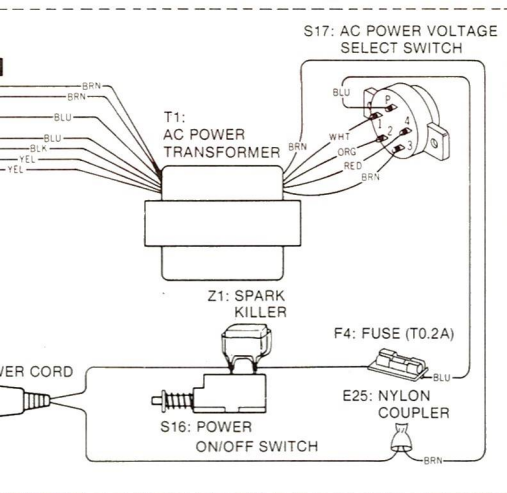
WIRING CONNECTION DIAGRAM

*si ce fil n'est pas connecté
il n'y a aucun son qui sort*

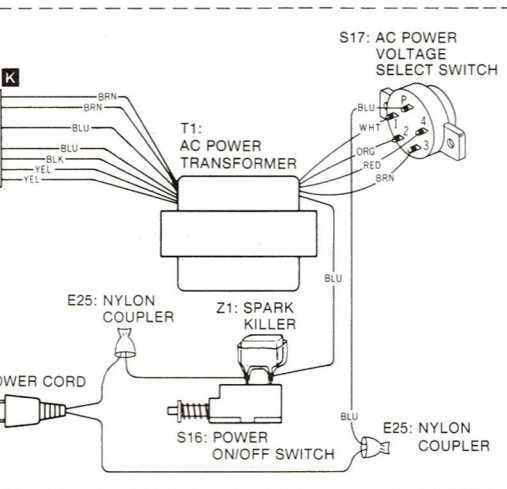
A
B
C
D
E
F







Africa areas.



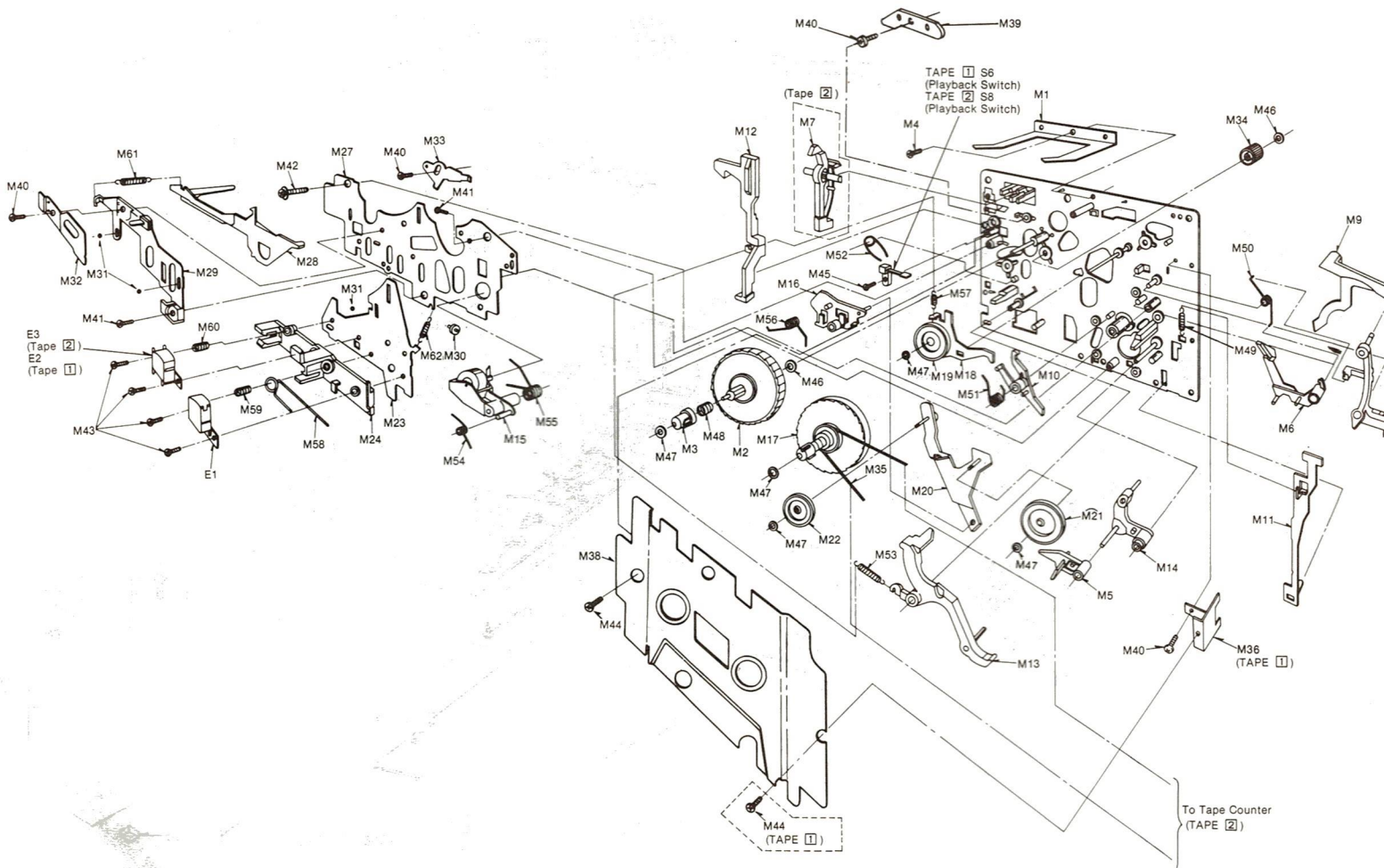
REPLACEMENT PARTS LIST (For mechanism unit)

REPLACEMENT PARTS LIST

Ref No.	Part No.	Part Name & Description	Ref No.	Part No.	Part Name & Description
MECHANICAL PARTS					
M 1	QBP1874	Cassette Pressure Spring	M 68	QMR1820	Record Rod
M 2	QDR1139	Reel Table	M 69	QMR1824	Control Rod
M 3	QMB1336	Supply Reel Table Hub	M 70	QMZ1239	Flywheel Thrust Retainer
M 5	QML3586	Music Select Lever	M 71	QBS1128	Lock Pin
M 6	QML3594	Auto Stop Release Arm	M 72	QML3582	Pause Lock Lever
M 7	QML3603	Erase Safety Lever	M 73	QXA1178	Plunger Angle [TAPE 1]
M 8	QML3604	Auto Stop Driving Lever	M 73	QMA4063	Flywheel Retainer [TAPE 2]
M 9	QML3605	Auto Stop Detection Lever	M 74	QMZ1254	Wire Clamper
M 10	QML3592	Change Lever			
M 11	QMR1821	Auto Stop Connection Rod	M 76	QXF0164	Flywheel Assembly
M 12	QMR1822	Eject Rod	M 77	QZK0241	Takeup Gear Assembly
M 13	QXL1355	Main Lever Assembly	M 78	QXU0290	Motor Assembly
M 14	QXL1354	Sub Lever Assembly	M 79	QXK2286	Sub Chassis Assembly
M 15	QXL1381	Pressure Roller Lever	M 80	QDG1199	Auto Stop Gear
M 16	QML3588	Fast Forward Lever	M 81	QDG1200	Cam Gear
M 17	QXD1143	Takeup Reel Table Assembly	M 83	QDB0316	Capstan Belt
M 18	QXL1382	Idler Lever Assembly	M 84	QDB0290	Fast Forward Belt
M 19	QXI0111	Takeup Idler Assembly	M 85	QDB0274	Takeup Belt
M 20	QXL1383	Fast Forward Arm Assembly	M 86	QXL1360	Record/Playback Change Arm Assembly
M 21	QXI0112	Rewind Idler Assembly	M 87	QML3580	Record/Playback Change Lever
M 22	QXI0113	Fast Forward Idler Assembly	M 88	QXP0607	Fast Forward Connection Pulley Assembly
M 23	QMK1840	Head Base Plate	M 90	XTN3 + 10B	Tapping Screw $\varnothing 3 \times 10$
M 24	QMZ1241	Head Spacer	M 91	XTN3 + 24B	Tapping Screw $\varnothing 3 \times 24$
M 27	QMK1838	Support Base Plate	M 92	XSN26 + 3	Screw $\varnothing 2.6 \times 3$
M 28	QML3591	Brake Arm	M 93	QBW2049	Washer
M 29	QMZ1240	Sub Head Base Plate	M 94	QBW2026	Washer
M 30	QMN2550	Roller	M 95	QBW2008	Washer 2 ϕ
M 31	QDK1017	Steel Ball	M 96	QBW2012	Poly Washer
M 32	QBP1873	Head Base Plate Pressure Spring	M 97	XUB3FT	Stop Ring 3 ϕ
M 33	QMA3858	Head Adjustment Plate	M 98	XUB4FT	Stop Ring 4 ϕ
M 34	QDP1828	Fast Forward Pulley	M 99	QBN1744	Sub Gear Spring
M 35	QDB0235	Belt	M 100	QBN1745	Main Gear Spring
M 36	QMA4437	Angle	M 101	QBC1357	Lock Pin Pressure Spring
M 38	QXH0369	Chassis Cover	M 102	QBN1739	Change Lever Spring
M 39	QMF2118	Lock Plate	M 103	QBT1896	Lever Release Spring
M 40	XTN26 + 6B	Tapping Screw $\varnothing 2.6 \times 6$	M 104	QBT1895	Spring R/P Change Arm Spring
M 41	XTN26 + 10B	Tapping Screw $\varnothing 2.6 \times 10$	M 105	QMC0136	Spacer [TAPE 1]
M 42	XTN26 + 12B	Tapping Screw $\varnothing 2.6 \times 12$	M 105	QML3644	Tape Detection Lever-A (for Metal Tape) [TAPE 2]
M 43	XSN2 + 10	Screw $\varnothing 2 \times 10$	M 106	QML3645	Tape Detection Lever-B (for CrO ₂)
M 44	XTN26 + 6BFZ	Tapping Screw $\varnothing 2.6 \times 6$	M 107	QWA4228	Detection Lever Angle-B
M 46	QBW2012	Washer	M 108	QMS2546	Detection Lever Shaft
M 47	QBW2008	Poly Washer 2 ϕ	M 109	XSN2 + 5	Screw $\varnothing 2 \times 5$
M 48	QBC1372	Reel Table Spring	M 111	XTN2 + 10B	Tapping Screw $\varnothing 2 \times 10$
M 49	QBT1682	Auto Stop Connection Rod Spring	M 112	QMA4392	Circuit Board Angle
M 50	QBN1746	Auto Stop Lever Spring	M 113	QME0157	Plunger
M 51	QBN1741	Change Lever Spring	M 114	QME0163	Plunger
M 52	QBN1747	Connection Spring	M 115	QBC1358	Plunger Release Spring
M 53	QBT1894	Main Lever Spring	M 116	QML3616	Lock Release Lever
M 54	QBN1742	Pressure Roller Release Spring	M 117	QML3801	Pause Release Lever
M 55	QBN1743	Pressure Roller Spring	M 118	QML3802	Pause Connection Lever
M 56	QBN1748	Fast Forward Spring	M 120	XUC3FT	Stop Ring 3 ϕ
M 57	QBT1893	Idler Spring	M 121	XSN3 + 6S	Screw $\varnothing 3 \times 6$
M 58	QBN1740	Spring	M 122	XWA3B	Washer 3 ϕ
M 59	QBC1278	Head Spring	M 123	XSN26 + 8	Screw $\varnothing 2.6 \times 8$
M 60	QBCA0008	Head Spring	M 124	QBW2085	Washer
M 61	QBT1597	Brake Arm Spring			
M 62	QBT1892	Head Release Spring			
M 63	QDG1201	Main Gear			
M 64	QDG1202	Sub Gear			
M 65	QML3581	Sub Control Lever			
M 66	QML3583	Main Control Lever			
M 67	QML3584	Reverse Lever			

MECHANICAL PARTS LOCATION

(FRONT SIDE)



- When servicing this mechanism unit, refer to the disassembly notes and assembly instructions described in the service manuals of RS-M51, RS-M13, RS-M14 and RS-M04 (RS-M24 mechanism series).
- Components identified by TAPE 1 in the mechanism parts location diagram are used only for mechanisms loaded with TAPE 1 (Playback deck), while components identified by TAPE 2 are used only for mechanisms loaded with TAPE 2 (Record/playback deck). Components without tape identification are common to both mechanisms.

SPECIFICATIONS

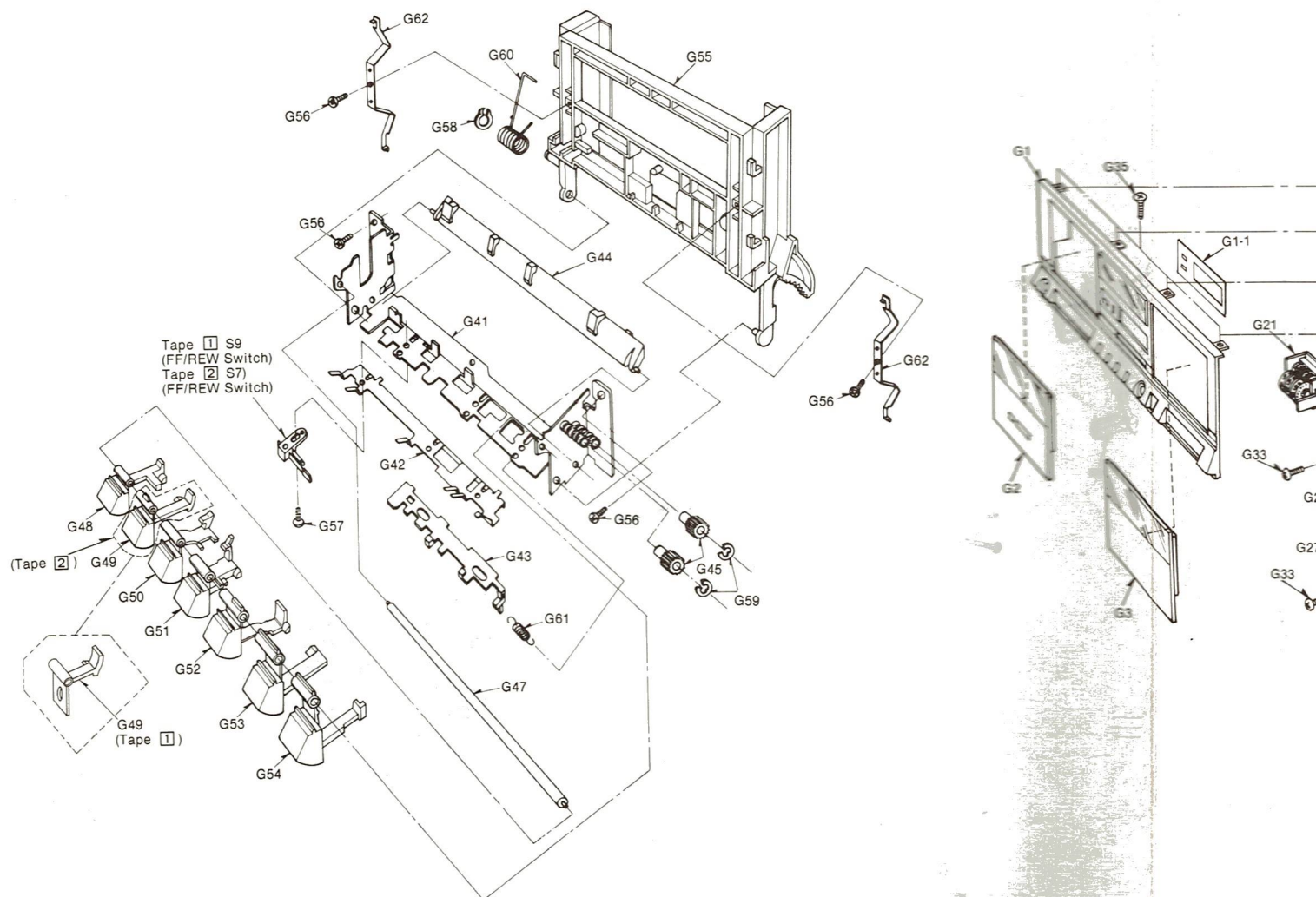
Pressure of pressure roller	350 ± 50 g
Takeup tension	
• Use cassette torque meter ... QZZSRKCT	45 + 15 - 10 g·cm
Wow and flutter; (JIS)	
• Use test tape ... QZZCWAT	Less than 0.06% (WRMS)

F



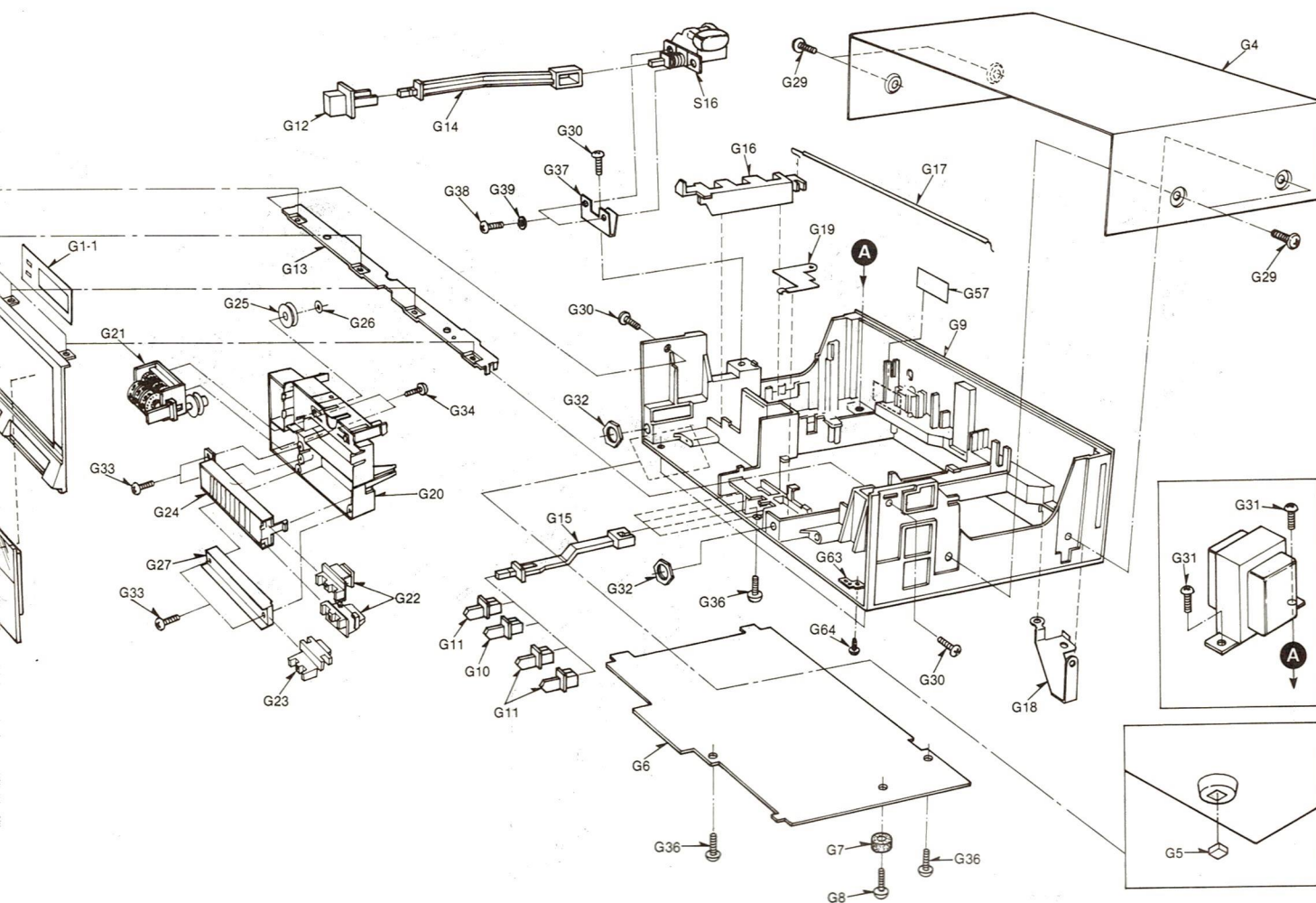
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CABINET PARTS LOCATION



REPLACEMENT PARTS LIST

Ref No.	Part No.	Part Name & Description	Ref No.	Part No.	Part Name & Description	Ref No.
CABINET PARTS			G 20	QYB0417	Chassis Plate	G 49
G 1	QYP1082	Front Panel	G 21	QXC0080	Counter Assy	
G 1-1	QGL1176	Meter Filter	G 22	QYK0138	Volume Knob-A	G 50
G 2	QYF0539	Cassette Lid-A	G 23	QYK0140	Volume Knob-B	G 51
G 3	QYF0540	Cassette Lid-B	G 24	QYG1592	Dial Scale	
G 4	QGC1216W	Case Cover	G 25	QBJ2068	Connection Pulley	
G 5	QKA1084	Rubber Foot	G 26	QBW2008	Washer	G 52
G 6	QGC1217	Bottom Cover	G 27	QGG0202	Slide Guide	
G 7	QKA1083	Rubber Foot	G 29	XTB4+10GFN	Screw $\Phi 4 \times 10$	G 53
G 8	QHQ1313	Screw	G 30	XTV3+10BFN	Screw $\Phi 3 \times 10$	G 54
G 9	QKM1542W	Main Chassis	G 31	XTB4+14BFZ	Tapping Screw $\Phi 4 \times 14$	G 55
			G 32	QNIQ1070	Nut	G 56
G 10	QGO1881B	Push Button	G 33	XTN26+8BFZ	Tapping Screw $\Phi 2.6 \times 8$	G 57 [D]
G 11	QGO1881S	Push Button	G 34	XSN3+6S	Screw $\Phi 3 \times 6$	[For all
G 12	QGO2032	Push Button	G 35	XTS3+6B	Screw $\Phi 3 \times 6$	[N]
G 13	QMA4223	Angle	G 36	XTV3+12BFN	Tapping Screw $\Phi 3 \times 12$	[For As
G 14	QMR1922	Rod (Power Switch)	G 37	XTB4+10BFN	Tapping Screw $\Phi 4 \times 10$	areas.]
G 15	QMR1921	Rod	G 41	QXA1044	Operation Button Angle Assembly	[BA]
G 16	QML3788	Record Lever	G 42	QBP1875	Operation Lever Spring	[For Ur
G 17	QBS1135	Spring Record Wire	G 44	QML3648	Lock Arm-B	G 58
G 18	QJC0040	Earth Plate-A	G 45	QDG1102	Holder Gear	G 59
G 19	QJC0041	Earth Plate-B	G 47	QMN2554	Operation Lever Shaft	G 60
			G 48	QXL1483	Eject Button Assembly	G 62



Description	Ref No.	Part No.	Part Name & Description	Ref No.	Part No.	Part Name & Description
A S ley	G 49	QML3601 QXL1494	Record Lever [Tape I] Record Button Assembly [Tape 2]	G 63	QMF2253	Angle
	G 50	QXL1495	Rewind Button Assembly	G 64	XSN3 + 6	Screw $\varnothing 3 \times 6$
	G 51	QXL1496	Fast Forward Button Assembly	ACCESSORIES		
	G 52	QXL1497	Playback Button Assembly	A 1 [D]	QQT3286	Instruction Book [For all European areas except United Kingdom.]
	G 53	QXL1498	Stop Button Assembly	[N]	QQT3311	Instruction Book [For Asia, Latin America, Middle East and Africa areas.]
	G 54	QXL1499	Pause Button Assembly	[BA]	QQT3287	Instruction Book [For United Kingdom and Australia.]
	G 55	QMH2090	Cassette Holder	A 2	QEB0125	Connection Cord
	G 56	XTN26 + 6BFZ	Tapping Screw $\varnothing 2.6 \times 6$	A 3 [N] Δ	QJP0603S	AC Plug Adaptor [For Asia, Latin America, Middle East and Africa areas.]
	G 57 [D]	QGS3008	Main Name Plate	PACKINGS		
	[For all European areas except United Kingdom.]	[N]	QGS3010	P 1	QPN4320	Inside Carton
$\varnothing 4 \times 14$ $\varnothing 2.6 \times 8$	[For Asia, Latin America, Middle East and Africa areas.]	[BA]	QGS3009	P 2	QPA0670	Cushion-A
	[For United Kingdom and Australia.]		XUB5FT	P 3	QPA0671	Cushion-B
$\varnothing 3 \times 12$ $\varnothing 4 \times 10$ on Angle			Stop Ring	P 4	QPS0434	Pad
r Spring	G 59	QBW2082	Snap Washer	P 5	XZB50X65A02	Poly Sheet
r Shaft assembly	G 60	QBN7010	Spring	P 6	QPC0072	Poly Sheet
	G 62	QBP1923	Spring			