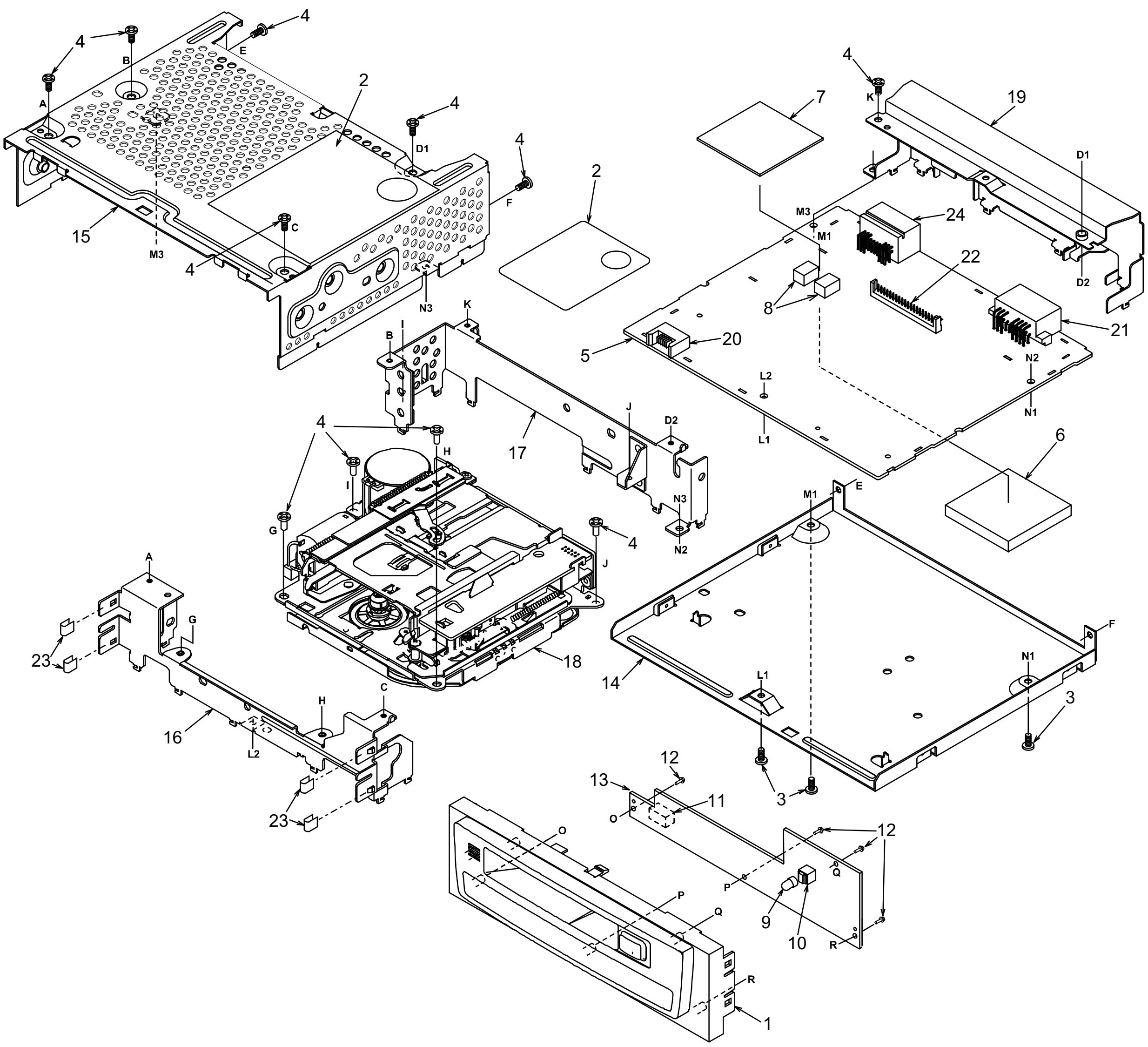
# EXPLODED VIEW/PARTS LIST

## Main section



Note)Some parts depend on each model. The model name is specified in the discription.
PP8211V : PP-8211V-A , PN8211I : PN-8211I-A

| NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1 | 940-8174-00<br>940-8174-10 | ES-ASSY (BLACK) (PP8211V)<br>ES-ASSY (GLAY) (PN8211I) | 1 |
| 2 | 286-6490-05<br>286-9493-07 | SETPLATE (PP8211V)<br>SETPLATE (PN8211I) | 1 |
| 3 | 716-1494-50 | IT SCREW (M2.6x6) | 3 |
| 4 | 714-2606-8B | MACHINE SCREW (M2.6x6) | 11 |
| 5 | --------------- | Main PWB | 1 |
| 6 | 345-8587-00 | CUSHION RUBBER | 1 |
| 7 | 345-8586-00 | CUSHION RUBBER | 1 |
| 8 | 014-0580-00 | RERAY | 2 |
| 9 | 017-0420-31<br>017-0420-50 | PL-LAMP (BLUE) (PP8211V)<br>PL-LAMP (REDDISH ORANGE) (PN8211I) | 1 |
| 10 | 013-3934-02 | SWITCH | 1 |
| 11 | 074-3034-06 | OUTLET SOCKET (6P) | 1 |

| NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 12 | 716-0778-50 | WAVE SCREW(M2x6) | 4 |
| 13 | --------------- | Switch PWB | 1 |
| 14 | 311-1758-03 | LOWER CASE | 1 |
| 15 | 310-1663-01 | UPPER CASE | 1 |
| 16 | 309-0732-01 | FRONT PLATE | 1 |
| 17 | 331-2471-10 | MECH BRKT | 1 |
| 18 | 930-0792-87 | TAPE MECH | 1 |
| 19 | 331-3043-00 | REAR PLATE | 1 |
| 20 | 076-0540-06 | PLUG(6P) | 1 |
| 21 | 074-1268-00 | OUTLET SOCKET (16P) | 1 |
| 22 | 076-0461-20 | PLUG (20P) | 1 |
| 23 | 347-5893-00 | TAPE | 4 |
| 24 | 074-1087-02 | OUTLET SOCKET (16P) | 1 |

# ELECTRICAL PARTS LIST

## Main PWB(B1) section

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C103 | 168-3332-78 | 0.033uF K |
| C104 | 168-1032-55 | 0.01uF K |
| C105 | 168-3332-78 | 0.033uF K |
| C107 | 168-1532-55 | 0.015uF K |
| C108 | 188-1053-68 | 50V 1uF |
| C109 | 188-3353-68 | 50V 3.3uF |
| C110 | 168-1022-55 | 1000pF K |
| C111 | 168-1022-55 | 1000pF K |
| C112 | 168-1022-55 | 1000pF K |
| C113 | 168-1032-55 | 0.01uF K |
| C114 | 168-1042-78 | 16V 0.1uF K |
| C115 | 168-1042-78 | 16V 0.1uF K |
| C116 | 168-1042-78 | 16V 0.1uF K |
| C117 | 168-1042-78 | 16V 0.1uF K |
| C118 | 168-1042-78 | 16V 0.1uF K |
| C119 | 165-1063-35 | 16V 10uF |
| C202 | 168-1042-78 | 16V 0.1uF K |
| C203 | 187-1073-37 | 16V 100uF |
| C301 | 168-3332-78 | 0.033uF K |
| C302 | 168-3332-78 | 0.033uF K |
| C303 | 168-3332-78 | 0.033uF K |
| C304 | 168-3332-78 | 0.033uF K |
| C305 | 168-1032-55 | 0.01uF K |
| C306 | 168-1032-55 | 0.01uF K |
| C307 | 188-1063-38 | 16V 10uF |
| C308 | 188-1063-38 | 16V 10uF |
| C309 | 166-8201-50 | 82pF CH |
| C310 | 166-8201-50 | 82pF CH |
| C311 | 166-8201-50 | 82pF CH |
| C312 | 166-8201-50 | 82pF CH |
| C313 | 165-4763-15 | 6.3V 47uF |
| C314 | 188-1073-28 | 10V 100uF |
| C315 | 188-1073-28 | 10V 100uF |
| C316 | 188-1073-28 | 10V 100uF |
| C317 | 188-1073-28 | 10V 100uF |
| C318 | 188-4753-58 | 35V 4.7uF |
| C319 | 172-1031-15 | 0.01uF |
| C320 | 172-1031-15 | 0.01uF |
| C321 | 172-1031-15 | 0.01uF |
| C322 | 172-1031-15 | 0.01uF |
| C501 | 168-3332-78 | 0.033uF K |
| C502 | 168-3332-78 | 0.033uF K |
| C503 | 188-1073-28 | 10V 100uF |
| C504 | 187-1073-37 | 16V 100uF |
| C505 | 188-1063-38 | 16V 10uF |
| C506 | 188-1063-38 | 16V 10uF |
| C507 | 166-1007-50 | 10pF CH |
| C508 | 189-4773-38 | 16V 470uF |
| C509 | 172-1041-15 | 0.1uF |
| C510 | 189-4773-38 | 16V 470uF |
| C511 | 189-4773-38 | 16V 470uF |
| C512 | 188-1063-38 | 16V 10uF |
| C513 | 172-1041-15 | 0.1uF |
| C801 | 168-1042-78 | 16V 0.1uF K |
| D103 | 001-0516-90 | MA111 |
| D104 | 001-0516-90 | MA111 |
| D105 | 001-4305-39 | UDZSTE-17 36B |
| D106 | 001-0516-90 | MA111 |
| D202 | 001-0516-90 | MA111 |
| D203 | 001-0529-38 | MA8068-M |
| D501 | 001-0504-32 | HZS6 A3L |
| D502 | 001-0529-48 | MA8091-H |
| D504 | 001-0529-45 | MA8082-H |
| D506 | 001-2015-00 | RL253 |
| D507 | 001-2403-90 | M1F60 |
| D801 | 001-0529-48 | MA8091-H |
| D802 | 001-0529-48 | MA8091-H |
| D803 | 001-0529-48 | MA8091-H |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| D804 | 001-0529-48 | MA8091-H |
| D807 | 001-0529-48 | MA8091-H |
| D808 | 001-0529-48 | MA8091-H |
| D809 | 001-2403-90 | M1F60 |
| D810 | 001-2403-90 | M1F60 |
| IC101 | 052-4007-20 | S9S08AW8AE0 |
| IC102 | 051-0869-58 | NJM2103M |
| IC201 | 051-1014-10 | TA7291S |
| IC301 | 051-0350-93 | NJM4558M |
| IC302 | 051-0350-93 | NJM4558M |
| IC801 | 051-0267-08 | TC4066BF |
| P101 | 076-0461-20 | 20P |
| P501 | 076-0540-06 | 6P |
| P801 | 074-1087-02 | 16P |
| P802 | 074-1268-00 | 16P |
| Q101 | 125-0002-93 | RN2403 |
| Q102 | 125-2004-94 | RN1404 |
| Q105 | 125-2004-94 | RN1404 |
| Q106 | 125-0002-92 | RN2402 |
| Q107 | 125-2004-92 | RN1402 |
| Q108 | 125-0002-94 | RN2404 |
| Q109 | 125-2004-92 | RN1402 |
| Q110 | 125-0002-92 | RN2402 |
| Q111 | 192-2712-00 | 2SC2712 |
| Q112 | 192-2712-00 | 2SC2712 |
| Q113 | 192-2712-00 | 2SC2712 |
| Q201 | 190-1431-00 | 2SA1431 |
| Q202 | 125-2004-96 | RN1406 |
| Q203 | 190-1431-00 | 2SA1431 |
| Q204 | 125-2004-96 | RN1406 |
| Q301 | 193-1450-00 | 2SD1450 R,S,T |
| Q302 | 193-1450-00 | 2SD1450 R,S,T |
| Q303 | 125-2004-92 | RN1402 |
| Q304 | 193-1450-00 | 2SD1450 R,S,T |
| Q305 | 193-1450-00 | 2SD1450 R,S,T |
| Q306 | 125-0002-92 | RN2402 |
| Q501 | 193-1858-00 | 2SD1858 |
| Q502 | 193-1858-00 | 2SD1858 |
| Q503 | 190-1428-00 | 2SA1428 |
| Q504 | 125-2004-92 | RN1402 |
| Q801 | 125-0002-92 | RN2402 |
| Q802 | 192-2712-00 | 2SC2712 |
| Q803 | 125-0002-92 | RN2402 |
| Q804 | 192-2712-00 | 2SC2712 |
| R100 | 117-4721-15 | 1/8W 4.7k ohm |
| R102 | 117-1041-15 | 1/8W 100k ohm |
| R103 | 117-1041-15 | 1/8W 100k ohm |
| R104 | 117-1041-15 | 1/8W 100k ohm |
| R105 | 117-1031-15 | 1/8W 10k ohm |
| R106 | 117-1051-15 | 1/8W 1M ohm |
| R107 | 119-1021-15 | 1/10W 1k ohm |
| R108 | 119-3311-15 | 1/10W 330 ohm |
| R109 | 119-3311-15 | 1/10W 330 ohm |
| R110 | 119-3311-15 | 1/10W 330 ohm |
| R111 | 119-1021-15 | 1/10W 1k ohm |
| R113 | 117-1031-15 | 1/8W 10k ohm |
| R114 | 117-1041-15 | 1/8W 100k ohm |
| R115 | 117-2221-15 | 1/8W 2.2k ohm |
| R116 | 117-1031-15 | 1/8W 10k ohm |
| R117 | 116-1031-15 | 1/4W 10k ohm |
| R118 | 117-1031-15 | 1/8W 10k ohm |
| R119 | 117-5631-15 | 1/8W 56k ohm |
| R120 | 117-5621-15 | 1/8W 5.6k ohm |
| R121 | 117-1031-15 | 1/8W 10k ohm |
| R122 | 117-1031-15 | 1/8W 10k ohm |
| R123 | 117-5631-15 | 1/8W 56k ohm |
| R124 | 117-5631-15 | 1/8W 56k ohm |
| R125 | 116-1031-15 | 1/4W 10k ohm |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R126 | 116-1031-15 | 1/4W 10k ohm |
| R127 | 116-1031-15 | 1/4W 10k ohm |
| R128 | 116-1031-15 | 1/4W 10k ohm |
| R129 | 116-1031-15 | 1/4W 10k ohm |
| R130 | 116-1031-15 | 1/4W 10k ohm |
| R202 | 116-1521-15 | 1/4W 1.5k ohm |
| R203 | 117-1021-15 | 1/8W 1k ohm |
| R204 | 116-1521-15 | 1/4W 1.5k ohm |
| R205 | 117-1031-15 | 1/8W 10k ohm |
| R206 | 117-2221-15 | 1/8W 2.2k ohm |
| R207 | 114-2291-11 | 1W 2.2 ohm |
| R208 | 116-1521-15 | 1/4W 1.5k ohm |
| R209 | 116-1521-15 | 1/4W 1.5k ohm |
| R301 | 117-5621-15 | 1/8W 5.6k ohm |
| R302 | 117-5621-15 | 1/8W 5.6k ohm |
| R303 | 117-5621-15 | 1/8W 5.6k ohm |
| R304 | 117-5621-15 | 1/8W 5.6k ohm |
| R305 | 117-1041-15 | 1/8W 100k ohm |
| R306 | 117-1041-15 | 1/8W 100k ohm |
| R307 | 117-2201-15 | 1/8W 22 ohm |
| R308 | 117-2201-15 | 1/8W 22 ohm |
| R309 | 117-2231-15 | 1/8W 22k ohm |
| R310 | 117-4731-15 | 1/8W 47k ohm |
| R311 | 117-1631-15 | 1/8W 16k ohm |
| R312 | 117-1631-15 | 1/8W 16k ohm |
| R313 | 117-4731-15 | 1/8W 47k ohm |
| R314 | 117-2231-15 | 1/8W 22k ohm |
| R315 | 117-1031-15 | 1/8W 10k ohm |
| R316 | 117-1031-15 | 1/8W 10k ohm |
| R317 | 117-2231-15 | 1/8W 22k ohm |
| R318 | 117-2231-15 | 1/8W 22k ohm |
| R319 | 117-2201-15 | 1/8W 22 ohm |
| R320 | 117-2201-15 | 1/8W 22 ohm |
| R321 | 117-2231-15 | 1/8W 22k ohm |
| R322 | 117-2231-15 | 1/8W 22k ohm |
| R323 | 117-1231-15 | 1/8W 12k ohm |
| R324 | 117-1031-15 | 1/8W 10k ohm |
| R325 | 116-2201-15 | 1/4W 22 ohm |
| R326 | 116-2201-15 | 1/4W 22 ohm |
| R327 | 116-2201-15 | 1/4W 22 ohm |
| R328 | 116-2201-15 | 1/4W 22 ohm |
| R329 | 117-1031-15 | 1/8W 10k ohm |
| R330 | 117-1031-15 | 1/8W 10k ohm |
| R331 | 117-1031-15 | 1/8W 10k ohm |
| R332 | 117-1031-15 | 1/8W 10k ohm |
| R333 | 117-4731-15 | 1/8W 47k ohm |
| R334 | 117-1021-15 | 1/8W 1k ohm |
| R335 | 117-1021-15 | 1/8W 1k ohm |
| R336 | 117-1021-15 | 1/8W 1k ohm |
| R337 | 117-1021-15 | 1/8W 1k ohm |
| R338 | 117-4711-15 | 1/8W 470 ohm |
| R501 | 117-2231-15 | 1/8W 22k ohm |
| R502 | 117-4711-15 | 1/8W 470 ohm |
| R503 | 116-1221-15 | 1/4W 1.2k ohm |
| R504 | 117-4731-15 | 1/8W 47k ohm |
| R507 | 116-1021-15 | 1/4W 1k ohm |
| R508 | 116-6801-15 | 1/4W 68 ohm |
| R801 | 117-4731-15 | 1/8W 47k ohm |
| R802 | 117-4721-15 | 1/8W 4.7k ohm |
| R803 | 117-4721-15 | 1/8W 4.7k ohm |
| R804 | 117-3331-15 | 1/8W 33k ohm |
| R805 | 117-3331-15 | 1/8W 33k ohm |
| RY801 | 014-0580-00 | A 12W-K |
| RY802 | 014-0580-00 | A 12W-K |
| T501 | 009-0618-01 | CHOKE 1.2mH |
| X101 | 060-1042-00 | CERA RESONATOR |
| PWB | 039-3378-00 | PWB(WITHOUT COMPONENT) |

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# Service Manual

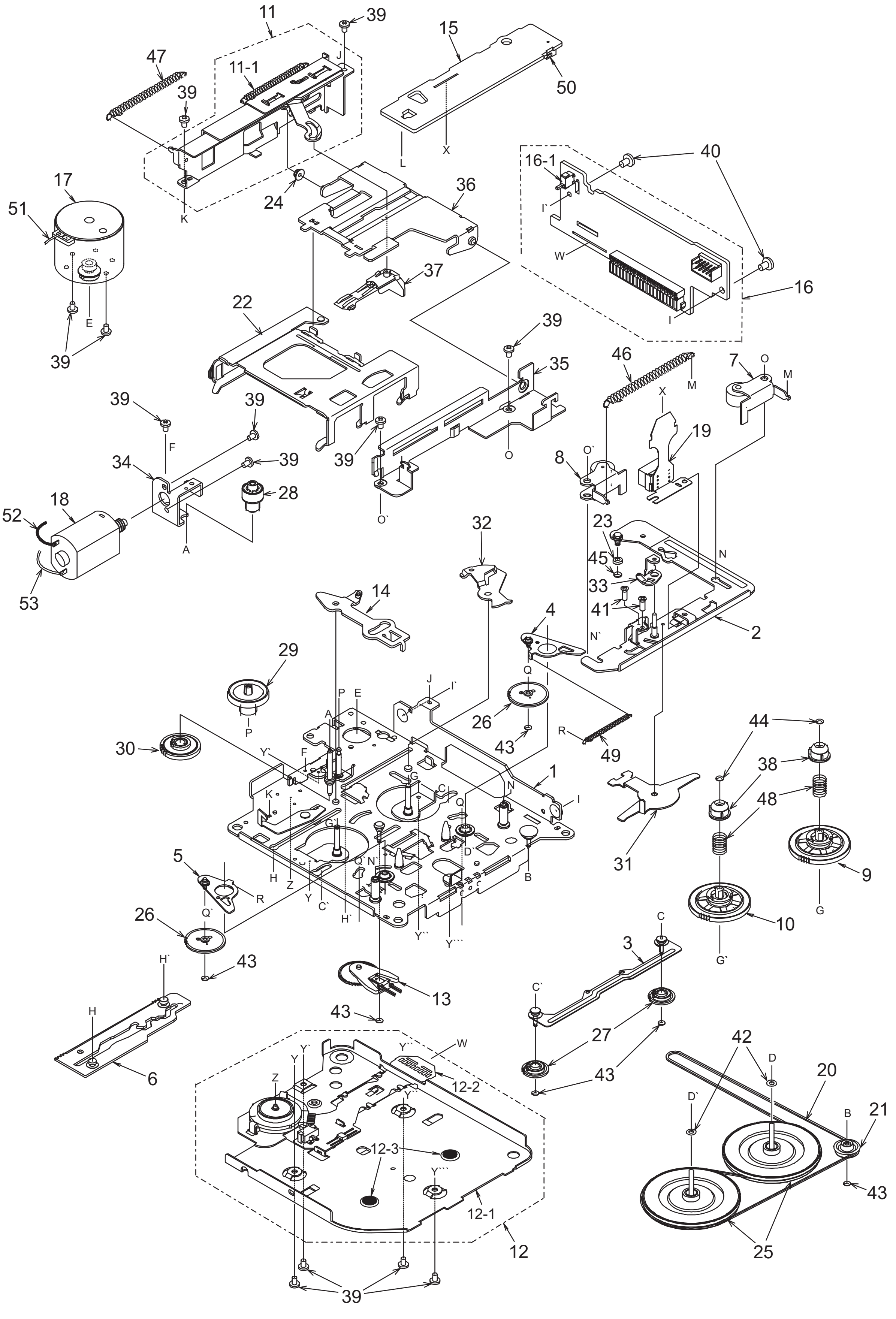
TAPE mechanism (GFN-LS)

## Model 930-0792-87

## EXPLODED VIEW / PARTS LIST

* Exploded view on next page.

| NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1 | 960-4294-22 | DECK PLATE ASSY | |
| 2 | 960-4261-20 | HEAD PLATE ASSY | |
| 3 | 960-4262-03 | FF/REW-P ASSY | 1 |
| 4 | 960-4263-03 | IDLER-P ASSY F | 1 |
| 5 | 960-4264-03 | IDLER-P-ASSY R | 1 |
| 6 | 960-4266-20 | MODE PLATE ASSY | |
| 7 | 960-4269-05 | ROLLER ASSY F | 1 |
| 8 | 960-4270-05 | ROLLER ASSY R | 1 |
| 9 | 960-4348-03 | REEL ASSY F | 1 |
| 10 | 960-4349-03 | REEL ASSY R | 1 |
| 11 | 960-4389-20 | EJECT SUB ASSY | 1 |
| 11-1 | 750-3020-01 | SW PLATE SPRING | 1 |
| 12 | 960-4338-09 | BOTTOM SUB ASSY | 1 |
| 12-1 | 960-4295-02 | BOTTOM P-ASSY | 1 |
| 12-2 | --------------- | BOTTOM PWB (WITHOUT COMPONENT) | 1 |
| 12-3 | 746-0767-00 | SP-WASHER | 2 |
| 13 | 960-4282-06 | DETECT SUB ASSY | 1 |
| 14 | 960-4301-02 | PLAY LINK ASSY | 1 |
| 15 | -------------- | SIDE PWB (WITHOUT COMPONENT) | 1 |
| 16 | 990-0713-90 | REAR PWB (WITHOUT COMPONENT) | 1 |
| 16-1 | 013-3906-00 | SWITCH (TAPE IN) | 1 |
| 17 | SMA-168-100 | MAIN MOTOR ASSY | 1 |
| 18 | SMA-169-100 | POWER ASSY | 1 |
| 19 | 011-0328-01 | HEAD | 1 |
| 20 | 602-0118-00 | BELT | 1 |
| 21 | 604-0046-00 | TENSION PULLEY | 1 |
| 22 | 606-0093-07 | PACK GUIDE | 1 |
| 23 | 610-0342-01 | HEAD P ROLLER | 1 |
| 24 | 610-0343-00 | GUIDE A ROLLER | 1 |
| 25 | 611-0091-03 | FLYWHEEL | 2 |
| 26 | 613-0662-00 | IDLER GEAR | 2 |
| 27 | 613-0286-03 | FF/REW GEAR | 2 |
| 28 | 613-0288-01 | HELICAL | 1 |
| 29 | 613-0289-01 | GEAR A | 1 |
| 30 | 613-0337-20 | POWER GEAR | 1 |
| 31 | 630-2597-01 | CHANGE LINK | 1 |
| 32 | 630-2598-05 | EJECT LINK | 1 |
| 33 | 630-2600-01 | ADJUST LINK | 1 |
| 34 | 630-2601-02 | MOTOR PLATE | 1 |
| 35 | 630-2626-06 | PWB FRAME | 1 |
| 36 | 630-2642-01 | GUIDE ARM | 1 |
| 37 | 631-1992-02 | PACK STOPPER | 1 |
| 38 | 631-1993-01 | SLIDE BUSH | 2 |
| 39 | 716-0484-03 | SCREW (M2x2.5) | 13 |
| 40 | 716-1676-50 | PWB SCREW(M2.6x6) | 2 |
| 41 | 716-0833-10 | AZIMUTH SCREW(M2x5.6) | 2 |
| 42 | 746-0624-00 | SP-WASHER | 2 |
| 43 | 746-0724-00 | SP-WASHER | 6 |
| 44 | 746-0761-00 | SP-WASHER | 2 |
| 45 | 746-0762-00 | SP-WASHER | 1 |
| 46 | 750-2946-02 | PINCH SPRING | 1 |
| 47 | 750-2947-25 | EJECT P SPRING | 1 |
| 48 | 750-2949-00 | SLIDE SPRING | 2 |
| 49 | 750-3017-02 | IDLER P SPRING | 1 |
| 50 | 074-0898-10 | SOKET(10P) | 1 |
| 51 | 802-4909-60 | VINYL COAT WIRE(RED) | 1 |
| 52 | 806-4914-60 | VINYL COAT WIRE(BLUE) | 1 |
| 53 | 816-2349-00 | SPECIAL LEAD(WHITE) | |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# ELECTRICAL PARTS LIST

## SIDE PWB(B1)section

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C1 | 178-5612-78 | 560pF |
| C2 | 178-5612-78 | 560pF |
| C3 | 178-5612-78 | 560pF |
| C4 | 178-5612-78 | 560pF |
| C5 | 172-1231-11 | 0.012uF |
| C6 | 172-1231-11 | 0.012uF |
| C7 | 172-4731-11 | 0.047uF |
| C8 | 172-4731-11 | 0.047uF |
| C9 | 188-1053-68 | 50V 1uF |
| C10 | 178-5612-78 | 560pF |
| C11 | 178-5612-78 | 560pF |
| C12 | 178-1042-78 | 0.1uF |
| C13 | 178-1042-78 | 0.1uF |
| C14 | 178-4722-78 | 4700pF |
| C15 | 188-2263-38 | 16V 22uF |
| C16 | 178-1032-78 | 0.01uF |
| C17 | 188-1043-68 | 50V 0.1uF |
| C18 | 188-4753-58 | 35V 4.7uF |
| C20 | 176-2201-50 | 22pF CH |
| C21 | 176-2201-50 | 22pF CH |
| C22 | 176-2201-50 | 22pF CH |
| C23 | 176-2201-50 | 22pF CH |
| IC1 | 051-1777-00 | HA12163 |
| L1 | 010-2198-76 | 0.047uH |
| L2 | 010-2198-76 | 0.047uH |
| P4 | 074-0898-10 | 10P |
| R1 | 117-2731-15 | 1/8W 27k ohm |
| R2 | 117-2731-15 | 1/8W 27k ohm |
| R3 | 117-2731-15 | 1/8W 27k ohm |
| R4 | 117-2731-15 | 1/8W 27k ohm |
| R5 | 117-1811-15 | 1/8W 180 ohm |
| R6 | 117-1811-15 | 1/8W 180 ohm |
| R7 | 117-3341-15 | 1/8W 330k ohm |
| R8 | 117-3341-15 | 1/8W 330k ohm |
| R9 | 117-1131-15 | 1/8W 11k ohm |
| R10 | 117-1131-15 | 1/8W 11k ohm |
| R11 | 117-1531-15 | 1/8W 15k ohm |
| R12 | 117-1531-15 | 1/8W 15k ohm |
| R13 | 032-0098-93 | 1/8W 18k ohm G |
| R14 | 117-3331-15 | 1/8W 33k ohm |
| R15 | 117-1831-15 | 1/8W 18k ohm |
| R16 | 117-1841-15 | 1/8W 180k ohm |
| R17 | 117-4731-15 | 1/8W 47k ohm |
| R18 | 117-1241-15 | 1/8W 120k ohm |
| R19 | 117-2231-15 | 1/8W 22k ohm |
| R20 | 117-2231-15 | 1/8W 22k ohm |
| R21 | 117-2231-15 | 1/8W 22k ohm |
| R22 | 117-1031-15 | 1/8W 10k ohm |
| R23 | 117-2231-15 | 1/8W 22k ohm |
| VR1 | 012-4431-06 | 10k ohm |
| VR2 | 012-4431-06 | 10k ohm |
| PWB | 039-1436-20 | PWB(WITHOUT COMPONENT) |

## BOTT0M PWB(B2)section

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| IC2 | 051-1776-00 | NJL5801K |
| SW1 | 013-3953-01 | METAL SWITCH |
| SW2 | 013-3951-32 | MODE SWITCH |
| PWB | 099-9926-01 | PWB(WITHOUT COMPONENT) |

## REAR PWB(B3)section

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| P5 | 076-0368-10 | 10P |
| P6 | 074-1104-20 | 20P |
| R24 | 111-5611-91 | 1/4WS 560 ohm |
| SW3 | 013-3906-00 | SPPB51 |
| PWB | 990-0713-90 | PWB(WITHOUT COMPONENT) |

# CIRCUIT DIAGRAM

## SIDE PWB (B1) /BOTTOM PWB (B2) /REAR PWB (B3)section