

AV RECEIVER RX-V373/HTR-3065

SERVICE MANUAL

Note:

When the following parts are replaced, the model name and destination MUST be written to the back-up IC (EEPROM: IC221 on DIGITAL P.C.B.) to have proper operation. (For details, refer to "22 SOFT SWITCH" menu of the self-diagnostic function.)

注意:

下記の部品を交換した場合、正常動作のためにモデル名と仕向け先をバックアップ IC (DIGITAL P.C.B. の IC221) へ書き込む必要があります。(詳細は、ダイアグの "22. SOFT SWITCH" メニューを参照してください。)

- DIGITAL P.C.B.
- EEPROM: IC221 on DIGITAL P.C.B.

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.

It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.



■ TO SERVICE PERSONNEL

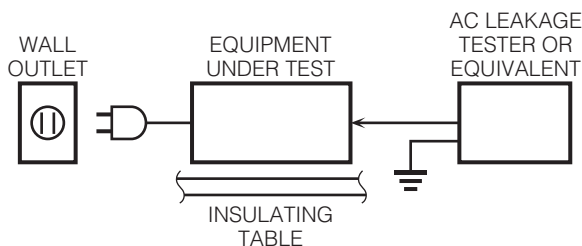
1. Critical Components Information

Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

2. Leakage Current Measurement (For 120V Models Only)

When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohms shunted by 0.15 μ F.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



For U model “CAUTION”

“F1501: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 6A, 125V FUSE.”

For C model CAUTION

F1501: REPLACE WITH SAME TYPE 6A, 125V FUSE.

ATTENTION

F1501: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE 6A, 125V.

WARNING: CHEMICAL CONTENT NOTICE!

This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

About lead free solder / 無鉛ハンダについて

All of the P.C.B.s installed in this unit and solder joints are soldered using the lead free solder.

Among some types of lead free solder currently available, it is recommended to use one of the following types for the repair work.

- Sn + Ag + Cu (tin + silver + copper)
- Sn + Cu (tin + copper)
- Sn + Zn + Bi (tin + zinc + bismuth)

Caution:

As the melting point temperature of the lead free solder is about 30°C to 40°C (50°F to 70°F) higher than that of the lead solder, be sure to use a soldering iron suitable to each solder.

本機に搭載されているすべての基板およびハンダ付けによる接合部は無鉛ハンダでハンダ付けされています。

無鉛ハンダにはいくつかの種類がありますが、修理時には下記のような無鉛ハンダの使用を推奨します。

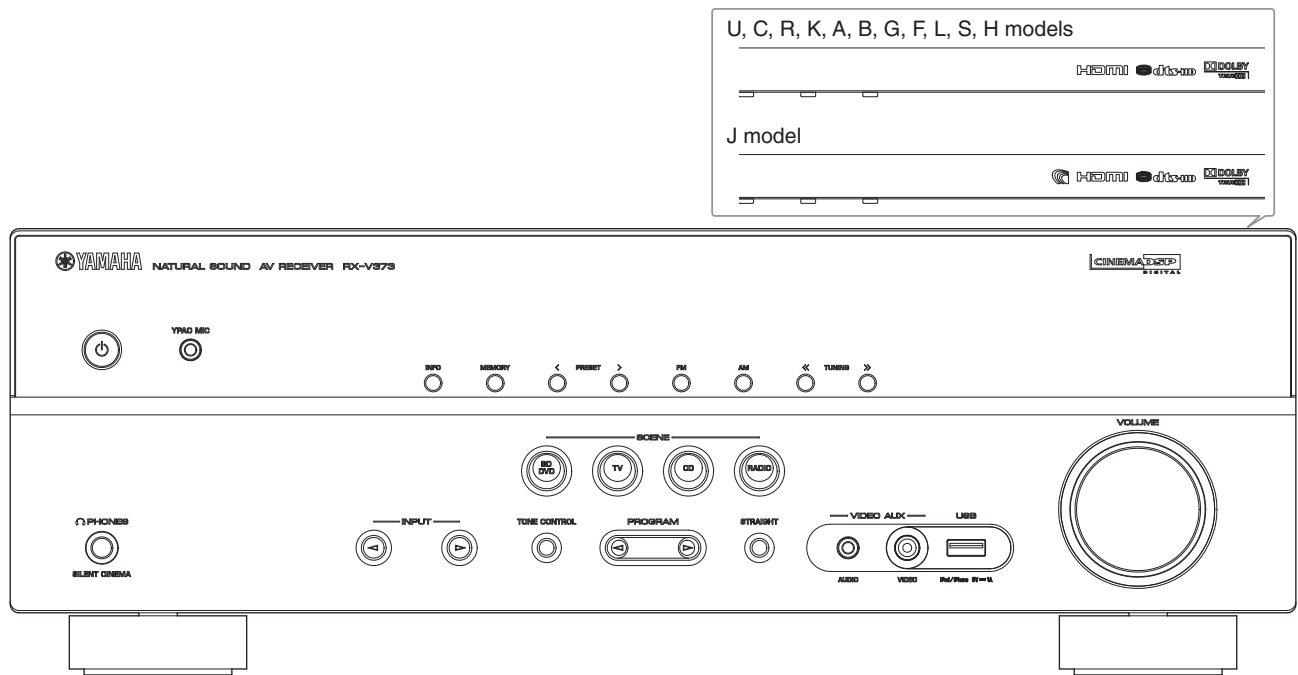
- Sn+Ag+Cu (錫 + 銀 + 銅)
- Sn+Cu (錫 + 銅)
- Sn+Zn+Bi (錫 + 亜鉛 + ビスマス)

注意：

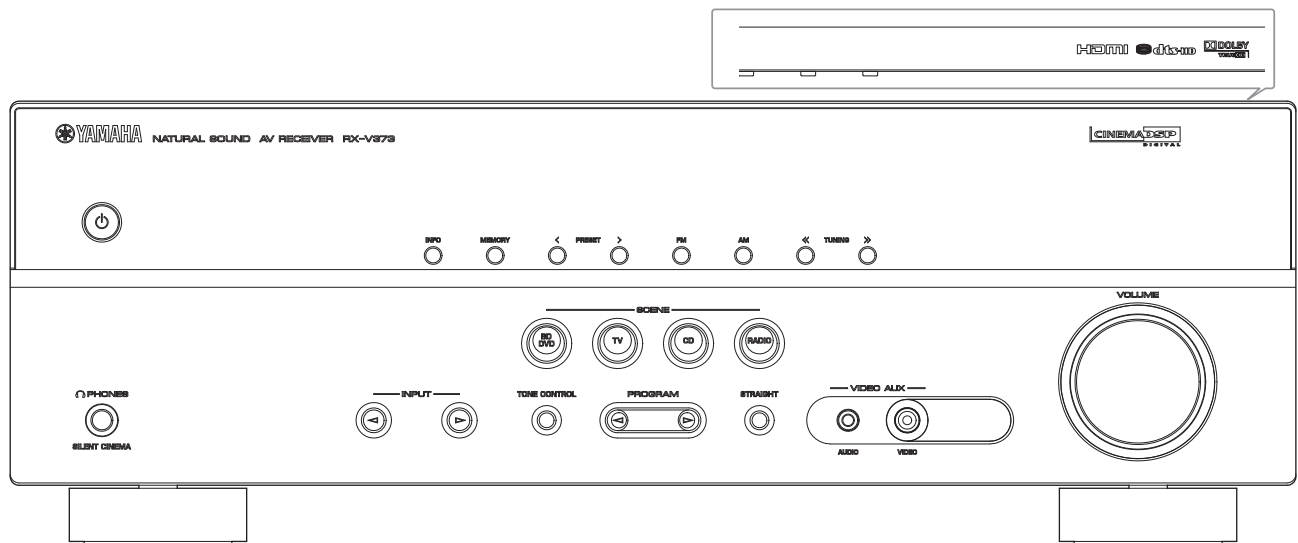
無鉛ハンダの融点温度は通常の鉛入りハンダに比べ 30 ～ 40°C程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。

FRONT PANELS

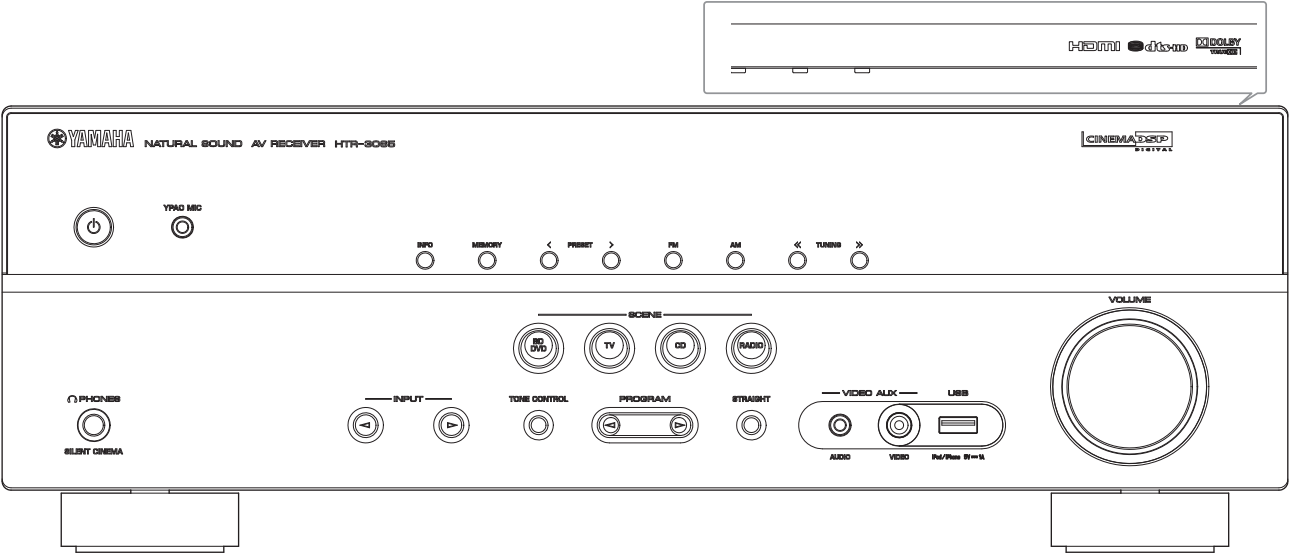
RX-V373 (U, C, R, K, A, B, G, F, L, S, H, J models)



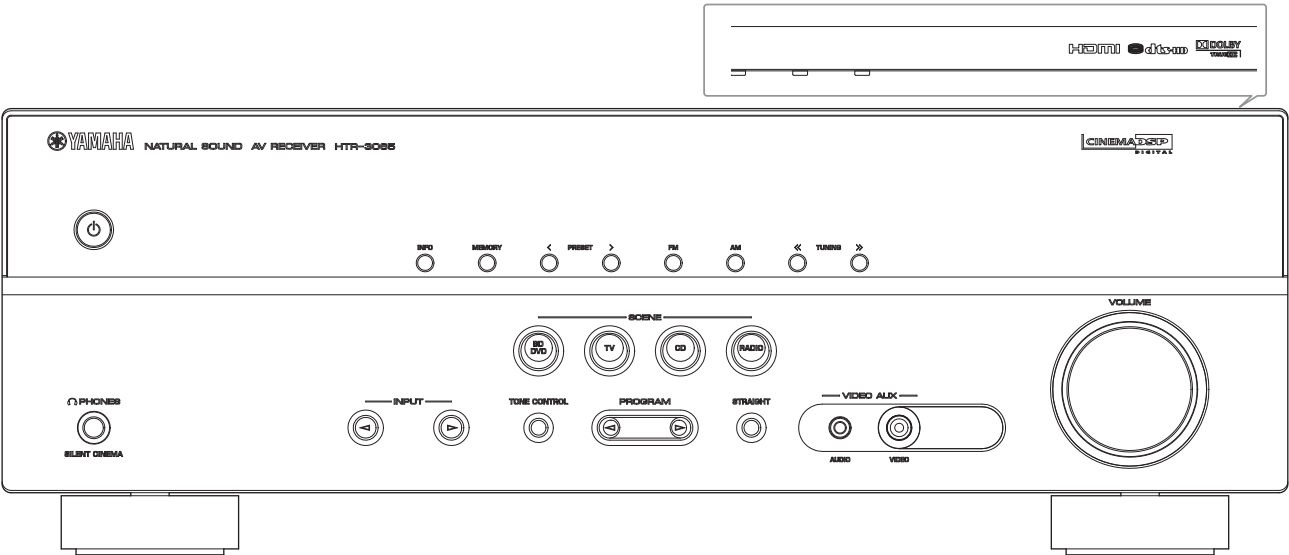
RX-V373 (T model)



HTR-3065 (U, C, R, K, A, B, G, F, L, S, H models)

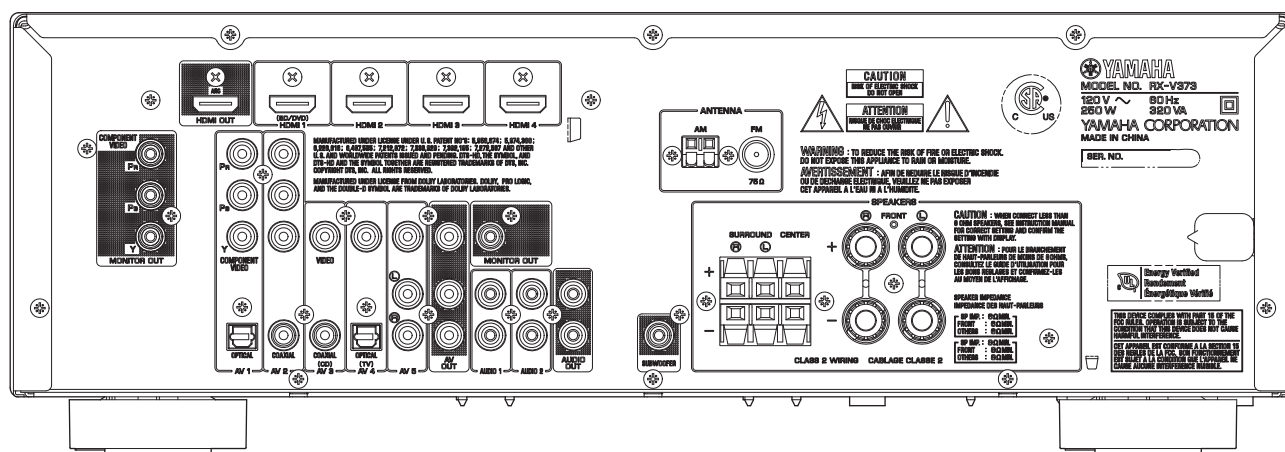


HTR-3065 (T model)

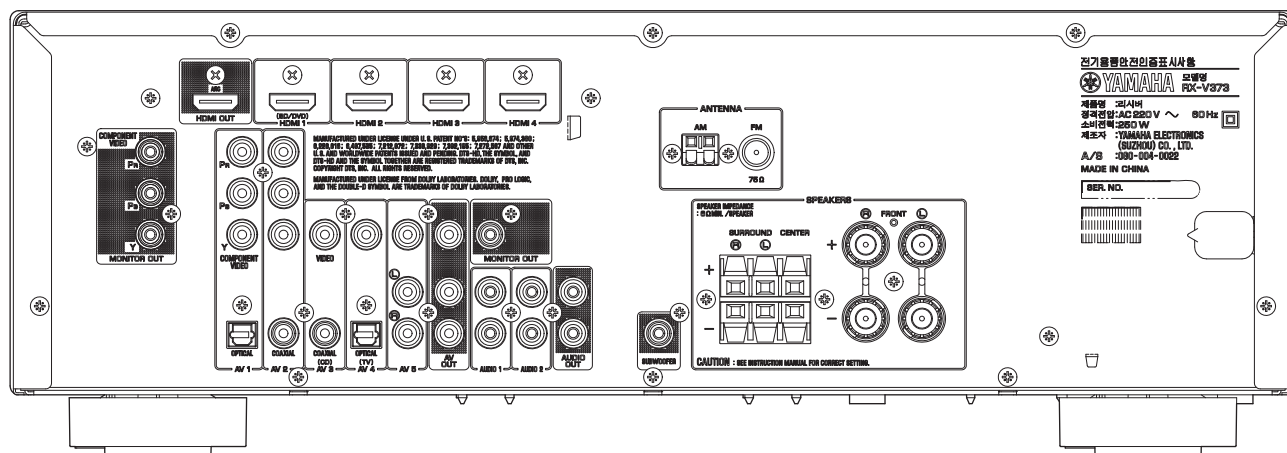


REAR PANELS

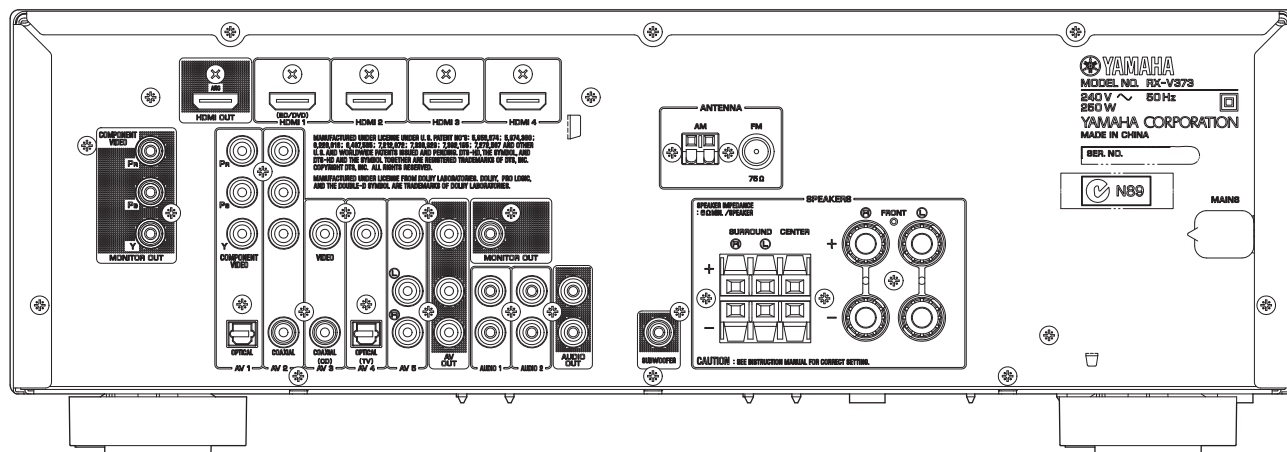
RX-V373 (U, C models)



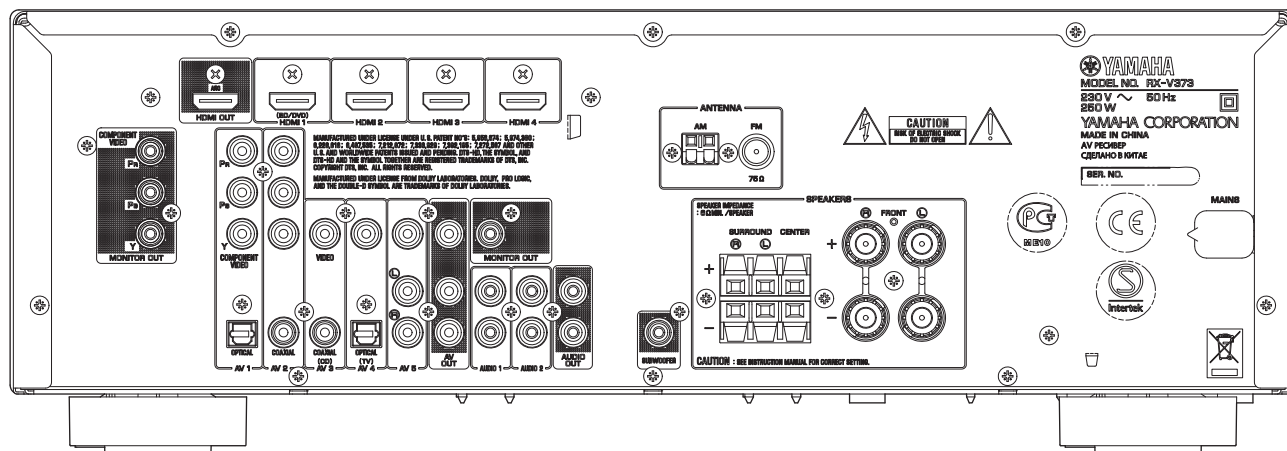
RX-V373 (K model)



RX-V373 (A model)



RX-V373 (B, G, F models)



The rear panel of the Yamaha RX-V373 receiver includes the following features:

- HDMI Ports:** Four HDMI ports labeled HDMI 1, HDMI 2, HDMI 3, and HDMI 4.
- Component Video:** A section with four ports labeled P, P, P, and Y, and a label "COMPONENT VIDEO".
- Optical and Coaxial Ports:** Two ports labeled "OPTICAL" and "COAXIAL", each with a label "AV 1" and "AV 2".
- Video and Monitor Out:** A "VIDEO" port and a "MONITOR OUT" port.
- Audio Ports:** Two "AUDIO 1" and "AUDIO 2" ports, and an "AUDIO OUT" port.
- Speaker Terminals:** A section labeled "SPEAKERS" with terminals for "FRONT", "CENTER", "SURROUND", and "SUBWOOFER".
- Antenna:** A section labeled "ANTENNA" with terminals for "AM" and "FM".
- Warning Label:** A label indicating a fire hazard and the need to read the instruction manual.
- Yamaha Logo and Model Information:** The Yamaha logo, model number "RX-V373", and other specifications like "220-240V", "260W", and "80/60Hz".

YAMAHA
MODEL NO. RSC-V373

YAMAHA CORPORATION
100 V 176 W 60/50 Hz

ヤマハ株式会社
MADE IN CHINA

SER. NO. _____

ANTENNA
AM FM 75 Ω

SPEAKERS
SPEAKER IMPEDANCE : 8ΩMIN. 16ΩMAX
SURROUND CENTER FRONT
+ -
SUBWOOFER
CAUTION : SEE INSTRUCTION MANUAL FOR CORRECT SETTING.

MANUFACTURED UNDER LICENSE FROM SONY ELECTRONICS CORP. FOR THE U.S.A. AND OTHER COUNTRIES. THE "SONY" LOGO IS A TRADEMARK OF SONY ELECTRONICS CORP. THE "YAMAHA" LOGO IS A TRADEMARK OF YAMAHA CORPORATION.

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[illegible]

The rear panel of the Yamaha HTR-3085 receiver features a variety of connection points and controls. At the top, there are five HDMI ports labeled HDMI 1 through HDMI 4, and a separate HDMI CMT port. Below these are several input ports: COMPONENT VIDEO, MONITOR OUT, OPTICAL, COAXIAL, CDS, and OPTICAL. The central section contains VIDEO, MONITOR OUT, and AUDIO OUT ports. To the right, there are two sets of SPEAKERS (FRONT and CENTER) and a SUBWOOFER. The bottom right corner includes an ANTENNA port, a VOLTAGE SELECTOR, and a SERIAL NO. label. Safety warnings and technical specifications are printed on the right side of the panel.

YAMAHA
 MODEL NO. HTR-3085
 110-120/220-240 V ~
 250 W 50/60 Hz
YAMAHA CORPORATION
 MADE IN CHINA
 SER. NO. _____

CAUTION: - SEE INSTRUCTION MANUAL FOR CORRECT SETTING.

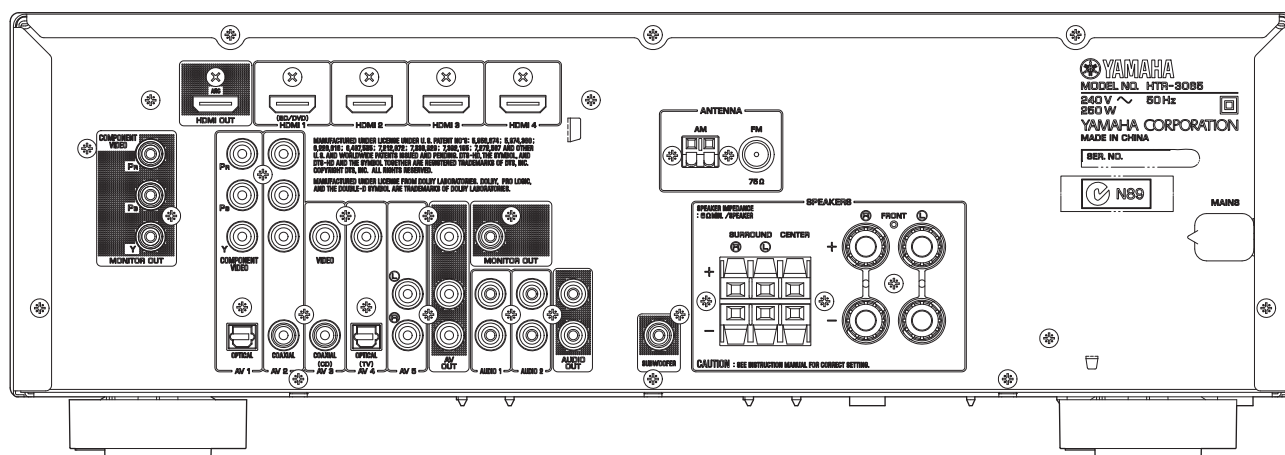
REAR PANEL CONNECTIONS:

- HDMI:** HDMI 1, HDMI 2, HDMI 3, HDMI 4
- VIDEO/AUDIO:** DSD/VIDEO, MONITOR OUT, COMPONENT VIDEO, OPTICAL, COAXIAL, MONITOR, AUDIO OUT
- ANTENNA:** AM, FM
- SPEAKERS:** SURROUND, CENTER, FRONT, REAR

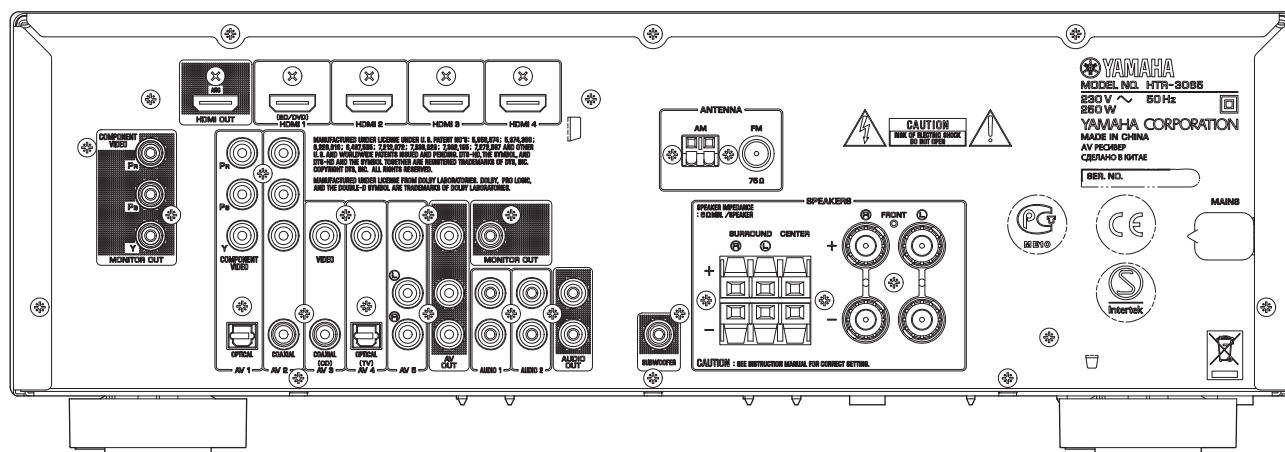
WARNING: 警告：电气危险，请勿拆开。为了减少火灾或触电的危险，不要将本机暴露在雨中或潮湿的地方。

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 80

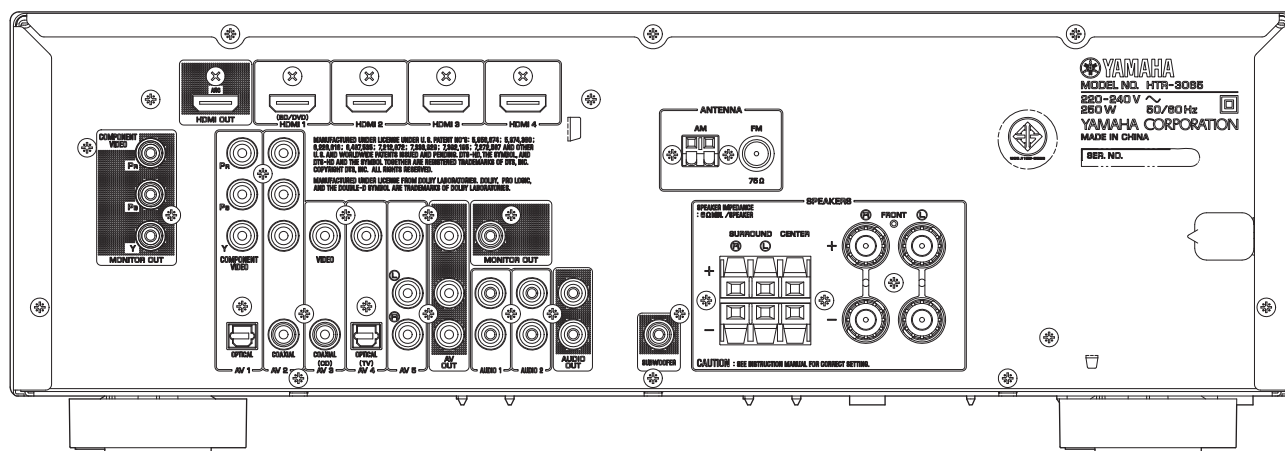
HTR-3065 (A model)



HTR-3065 (B, G, F models)



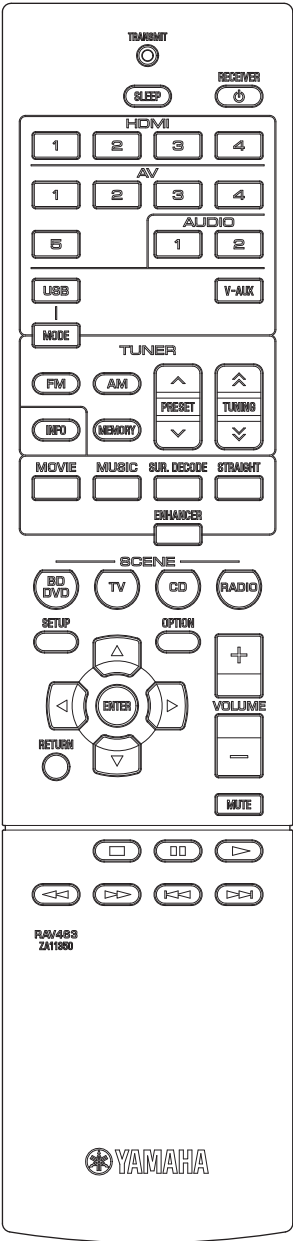
HTR-3065 (L, H models)



REMOTE CONTROL PANELS

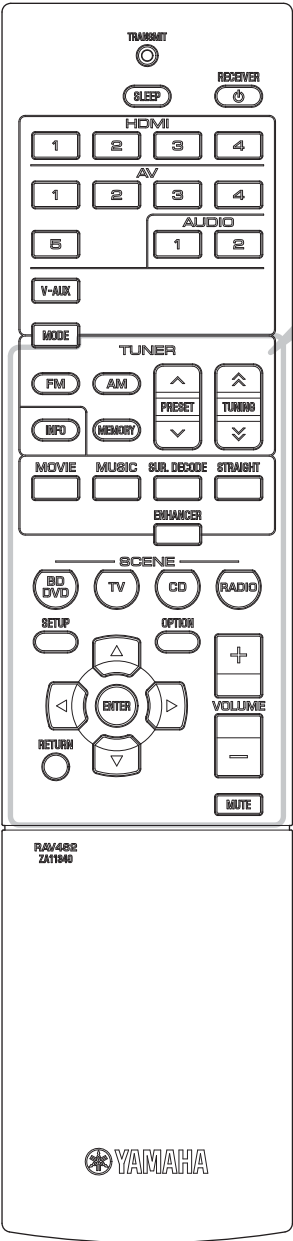
RAV463

(U, C, R, K,
B, G, F, L, S, H, J models)



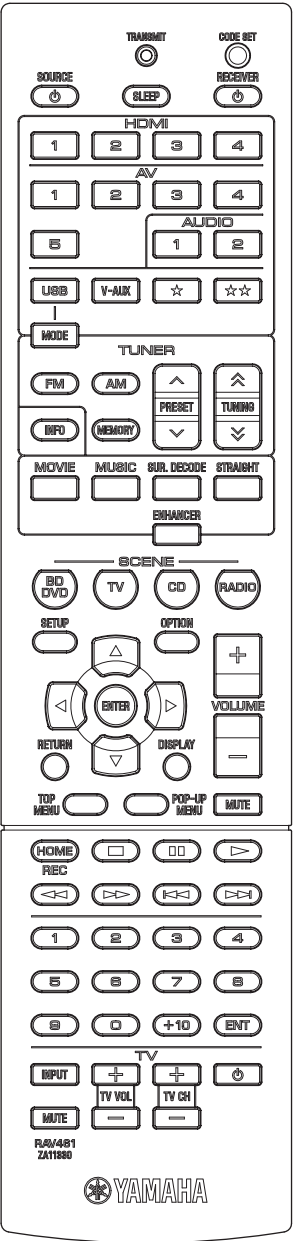
RAV462

(T model)

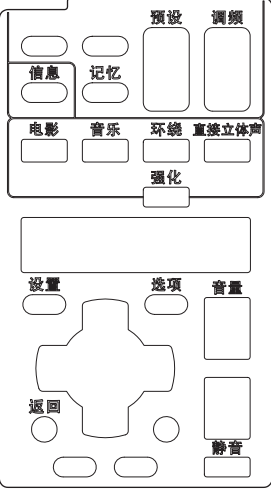


RAV461

(A model)



Remote control sheet



■ SPECIFICATIONS / 参考仕様

■ Audio Section / オーディオ部

Rated Output Power (Power Amp. Section) /

定格出力 (パワーアンプ部)

(1 kHz, 0.9 % THD)

– 1 channel driven –

U, C models (8 ohms)

| | |
|--------------|----------|
| FRONT L/R | 100 W/ch |
| CENTER | 100 W |
| SURROUND L/R | 100 W/ch |

R, T, K, A, B, G, F, L, S, H, J models (6 ohms)

| | |
|--------------|----------|
| FRONT L/R | 100 W/ch |
| CENTER | 100 W |
| SURROUND L/R | 100 W/ch |

– 2 channels driven simultaneously –

U, C models (8 ohms)

| | |
|--------------|-------------|
| FRONT L/R | 85 W + 85 W |
| CENTER | 85 W |
| SURROUND L/R | 85 W + 85 W |

(20 Hz to 20 kHz, 0.08 % THD)

– 2 channels driven simultaneously –

U, C models (8 ohms)

| | |
|-----------|-------------|
| FRONT L/R | 70 W + 70 W |
|-----------|-------------|

R, T, K, A, B, G, F, L, S, H, J models (6 ohms)

| | |
|-----------|-------------|
| FRONT L/R | 65 W + 65 W |
|-----------|-------------|

Maximum Effective Output Power / 実用最大出力 (JEITA)

(1 kHz, 10 % THD, 6 ohms / 1 channel driven)

[R, T, K, L, S, H, J models]

| | |
|--------------|----------|
| FRONT L/R | 135 W/ch |
| CENTER | 135 W |
| SURROUND L/R | 135 W/ch |

Dynamic Power Per Channel / ダイナミックパワー (IHF)

FRONT L/R drive

U, C models

| | |
|----------------------|-------------------------|
| (8 / 6 / 4 / 2 ohms) | 110 / 130 / 160 / 180 W |
|----------------------|-------------------------|

R, T, K, A, B, G, F, L, S, H, J models

| | |
|------------------|-------------------|
| (6 / 4 / 2 ohms) | 110 / 130 / 150 W |
|------------------|-------------------|

Dynamic Headroom [U, C models]

| | |
|--------|---------|
| 8 ohms | 0.23 dB |
|--------|---------|

Damping Factor / ダンピングファクタ (20 Hz to 20 kHz, 8 ohms)

| | |
|----------------------|-------------|
| FRONT L/R to SPEAKER | 120 or more |
|----------------------|-------------|

Input Sensitivity/Input Impedance / 入力感度／入力インピーダンス

(1 kHz, 100 W/6 ohms)

| | |
|----------|--------------------|
| AV5 etc. | 200 mV / 47 k-ohms |
|----------|--------------------|

Maximum Input Signal / 最大許容入力 (1 kHz, 0.5 % THD)

| | |
|----------------------|-------|
| AV5 etc. (EFFECT ON) | 2.3 V |
|----------------------|-------|

Output Level/Output Impedance / 出力電圧／出力インピーダンス

| | |
|--------|---------------------|
| AV OUT | 200 mV / 1.2 k-ohms |
|--------|---------------------|

| | |
|-----------|------------------|
| SUBWOOFER | 1 V / 1.2 k-ohms |
|-----------|------------------|

Headphone Jack Rated Output/Output Impedance /

ヘッドホン出力／出力インピーダンス (1 kHz, 50 mV, 8 ohms)

| | |
|----------------|-------------------|
| AV5 etc. input | 100 mV / 470 ohms |
|----------------|-------------------|

Frequency Response / 再生周波数帯域 (10 Hz to 100 kHz)

| | |
|-----------------|-----------|
| AV5 etc., FRONT | 0 / -3 dB |
|-----------------|-----------|

Signal to Noise Ratio / 信号対雑音比 (IHF-A network)

AV5, etc. (DIRECT) to SP OUT (Input shorted 250 mV)

| | |
|--|----------------|
| | 100 dB or more |
|--|----------------|

Residual Noise / 残留ノイズ (IHF-A Network)

| | |
|---------------------|---------------------|
| FRONT L/R to SP OUT | 150 μ V or less |
|---------------------|---------------------|

Channel Separation / チャンネルセパレーション

AV5, etc. (Input 5.1 k-ohms shorted)

| | |
|----------------|-------------------------------|
| 1 kHz / 10 kHz | 60 dB or more / 45 dB or more |
|----------------|-------------------------------|

Volume Control / 可変範囲／ステップ

| | |
|--|---|
| | MUTE / -80 dB to +16.5 dB / 0.5 dB step |
|--|---|

Tone Control Characteristics / トーンコントロール特性

FRONT L/R

Bass

| | |
|-----------|------------------------------------|
| Boost/Cut | ± 6 dB / 0.5 dB step, at 50 Hz |
|-----------|------------------------------------|

| | |
|--------------------|--------|
| Turnover frequency | 350 Hz |
|--------------------|--------|

Treble

| | |
|-----------|-------------------------------------|
| Boost/Cut | ± 6 dB / 0.5 dB step, at 20 kHz |
|-----------|-------------------------------------|

| | |
|--------------------|---------|
| Turnover frequency | 3.5 kHz |
|--------------------|---------|

Filter Characteristics / フィルタ特性

FRONT, CENTER, SURROUND small (H.P.F.)

| | |
|--|---|
| | fc=40/60/80/90/100/110/120/160/200 Hz, 12 dB/oct. |
|--|---|

SUBWOOFER small (L.P.F.)

| | |
|--|---|
| | fc=40/60/80/90/100/110/120/160/200 Hz, 24 dB/oct. |
|--|---|

■ Video Section / ビデオ部

Video Signal Type / ビデオ信号方式

| | |
|-------------------------|------|
| U, C, R, K, S, J models | NTSC |
|-------------------------|------|

| | |
|----------------------------|-----|
| T, A, B, G, F, L, H models | PAL |
|----------------------------|-----|

Composite Video Signal Level / コンポジットビデオ信号

| | |
|--|------------------|
| | 1 Vp-p / 75 ohms |
|--|------------------|

Component Video Signal Level / コンポーネントビデオ信号

| | |
|---|------------------|
| Y | 1 Vp-p / 75 ohms |
|---|------------------|

| | |
|-------|--------------------|
| Cb/Cr | 0.7 Vp-p / 75 ohms |
|-------|--------------------|

D4 Video Signal / D4 ビデオ信号 [J model]

| | |
|---|------------------|
| Y | 1 Vp-p / 75 ohms |
|---|------------------|

| | |
|-------|--------------------|
| Cb/Cr | 0.7 Vp-p / 75 ohms |
|-------|--------------------|

Video Maximum Input Level / ビデオ最大許容入力

(VIDEO Conversion Off)

| | |
|--|------------------|
| | 1.5 Vp-p or more |
|--|------------------|

Video Signal to Noise Ratio / ビデオ信号対雑音比

| | |
|--|---------------|
| | 50 dB or more |
|--|---------------|

Monitor Out Frequency Response / モニター出力周波数帯域

(VIDEO Conversion Off)

Component video signal level / コンポーネントビデオ信号

| | |
|--|-----------------------|
| | 5 Hz to 60 MHz, -3 dB |
|--|-----------------------|

D4 video signal / D4 ビデオ信号 [J model]

| | |
|--|-----------------------|
| | 5 Hz to 60 MHz, -3 dB |
|--|-----------------------|

■ FM Section / FM 部

Tuning Range / 受信周波数範囲

| | |
|-------------------------|---|
| U, C models | 87.5 to 107.9 MHz |
| R, L, S, H models | 87.5 to 108.0 MHz / 87.50 to 108.00 MHz |
| T, K, A, B, G, F models | 87.50 to 108.00 MHz |
| J model | 76.0 to 90.0 MHz |

50 dB Quieting Sensitivity / 50 dB SN 感度 (IHF)

(1 kHz, 100 % MOD.)

| | |
|------|-----------------|
| Mono | 3 µV (20.8 dBf) |
|------|-----------------|

Signal to Noise Ratio / 信号対雑音比 (IHF)

| | |
|--------|-------|
| Mono | 72 dB |
| Stereo | 70 dB |

Harmonic Distortion / 歪率 (1 kHz)

| | |
|--------|-------|
| Mono | 0.3 % |
| Stereo | 0.5 % |

Antenna Input / アンテナ入力

| | |
|--|--------------------|
| | 75 ohms unbalanced |
|--|--------------------|

■ AM Section / AM 部

Tuning Range / 受信周波数範囲

| | |
|----------------------------|-------------------------------------|
| U, C models | 530 to 1,710 kHz |
| R, L, S, H models | 530 to 1,710 kHz / 531 to 1,611 kHz |
| T, K, A, B, G, F, J models | 531 to 1,611 kHz |

Antenna / アンテナ

| | |
|--|--------------|
| | Loop antenna |
|--|--------------|

■ General / 総合

Power Supply / 電源電圧

| | |
|----------------|--------------------------------|
| U, C models | AC 120 V, 60 Hz |
| R, S model | AC 110–120/220–240 V, 50/60 Hz |
| T model | AC 220 V, 50 Hz |
| K model | AC 220 V, 60 Hz |
| A model | AC 240 V, 50 Hz |
| B, G, F models | AC 230 V, 50 Hz |
| L, H models | AC 220–240 V, 50/60 Hz |
| J model | AC 100 V, 50/60 Hz |

Power Consumption / 消費電力

| | |
|-------------------------------------|----------------|
| U, C models | 250 W / 320 VA |
| R, T, K, A, B, G, F, L, S, H models | 250 W |
| J model | 175 W |

Standby Power Consumption (reference data) /

待機時消費電力 (参考値)

| | |
|--|---------------|
| U, C, T, K, A, B, G, F, L, H, J models | 0.3 W or less |
| R, S models | 0.5 W or less |

Maximum Power Consumption [R, L, S, H models]

| | |
|--|-------|
| | 470 W |
|--|-------|

Dimensions (W x H x D) / 寸法 (幅 × 高さ × 奥行き)

| | |
|--|---|
| | 435 x 151 x 315 mm (17-1/8" x 6" x 12-3/8") |
|--|---|

Weight / 質量

| | |
|--|--------------------|
| | 7.5 kg (16.5 lbs.) |
|--|--------------------|

Finish / 仕上げ

[RX-V373]

| | |
|--|---------------------|
| T model | GD (Gold color) |
| U, C, R, T, K, A, B, G, F, L, S, H, J models | BL (Black color) |
| R, K, B, G, F, L, H models | TI (Titanium color) |

[HTR-3065]

| | |
|---|---------------------|
| T model | GD (Gold color) |
| U, C, R, T, K, A, B, G, F, L, S, H models | BL (Black color) |
| G model | TI (Titanium color) |

Accessories / 付属品

| | |
|--------------------------------|-----|
| Remote control | x 1 |
| Battery (R03, AAA, UM-4) | x 2 |
| FM antenna (1.4 m) | x 1 |
| AM antenna (1.3 m) | x 1 |
| YPAO microphone (6.0 m) | x 1 |
| Remote control sheet (T model) | x 1 |

* Specifications are subject to change without notice.

※ 参考仕様および外観は、製品の改良のため予告なく変更することがあります。

| | | | |
|---|-----------------------|---|----------------------|
| U | U.S.A. model | G | European model |
| C | Canadian model | F | Russian model |
| R | General model | L | Singapore model |
| T | Chinese model | S | Brazilian model |
| K | Korean model | H | Thai model |
| A | Australian model | J | Japanese model |
| B | British model | | |



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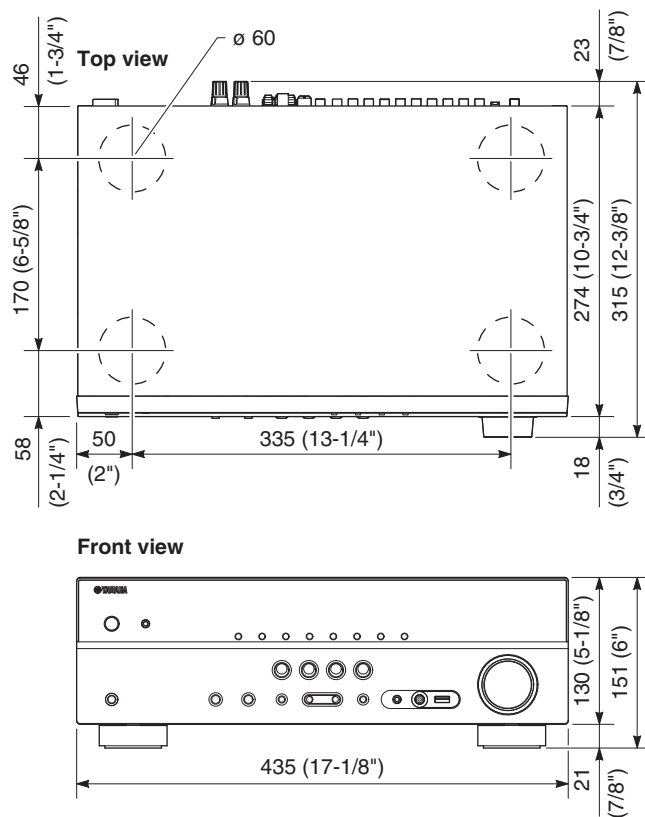
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• DIMENSIONS



Unit: mm (inch)
単位:mm (インチ)

• SELECT MENU

Sound field parameters

| Category | Program | Parameter | | | | |
|-------------|-------------------|-------------|---------------------------|---------------------------|--------------------------|---------------------------------|
| | | Decode Type | Panorama: Off / On, [Off] | Center Width: 0 to 7, [3] | Dimension: -3 to +3, [0] | Center Image: 0.0 to 1.0, [0.3] |
| MOVIE | Standard | | | | | |
| | Spectacle | | | | | |
| | Sci-Fi | | | | | |
| | Adventure | | | | | |
| | Drama | | | | | |
| | Mono Movie | | | | | |
| | Sports | | | | | |
| | Action Game | | | | | |
| | Roleplaying Game | | | | | |
| MUSIC | Hall in Munich | | | | | |
| | Hall in Vienna | | | | | |
| | Chamber | | | | | |
| | Cellar Club | | | | | |
| | The Roxy Theatre | | | | | |
| | The Bottom Line | | | | | |
| | Music Video | | | | | |
| | 2ch Stereo | | | | | |
| | 5ch Stereo | | | | | |
| SUR. DECODE | | ●
*1 | | | | |
| STRAIGHT | | | | | | |
| ENHANCER | Enhancer On / Off | | | | | |

● : Setting is possible
設定可

*1 Decode Type

| | |
|-------------|--|
| Decode Type | ☒ Pro Logic |
| | ☒ PLII Movie |
| | ☒ PLII Music |
| | ☒ PLII Game |
| | Neo: 6 Cinema |
| | Neo: 6 Music |

• SET MENU TABLE

| MAIN MENU | SUB-MENU | PARAMETER | | | VALUE [INITIAL VALUE] | |
|-----------|---------------|-----------------|---------------|---------|---|--------------------------------------|
| Speaker | Configuration | Subwoofer | | | [Use] / None | |
| | | Front | | | [Small] / Large | |
| | | Center | | | [Small] / Large / None | |
| | | Surround | | | [Small] / Large / None | |
| | | Crossover | | | 40 Hz / 60 Hz / [80 Hz] / 90 Hz / 100Hz / 110 Hz / 120 Hz / 160 Hz / 200 Hz | |
| | | Subwoofer Phase | | | [Normal] / Reverse | |
| | | Extra Bass | | | [Off] / On | |
| | Distance | Unit | | | Feet / Meter | |
| | | Front L | | | 0.30 to 24.00 m, [3.05 m], 0.05 m step | |
| | | Front R | | | 1.0 to 80.0 ft, [10.0 ft], 0.2 ft step | |
| | | Center | | | 0.30 to 24.00 m, [2.60 m], 0.05 m step
1.0 to 80.0 ft, [8.6 ft], 0.2 ft step | |
| | | Surround L | | | 0.30 to 24.00 m, [2.45 m], 0.05 m step | |
| | | Surround R | | | 1.0 to 80.0 ft, [8.0 ft], 0.2 ft step | |
| | | Subwoofer | | | 0.30 to 24.00 m, [3.05 m], 0.05 m step
1.0 to 80.0 ft, [10.0 ft], 0.2 ft step | |
| | Level | Front L | | | -10.0 to +10.0 dB, [0.0 dB], 0.5 dB step | |
| | | Front R | | | | |
| | | Center | | | | |
| | | Surround L | | | -10.0 to +10.0 dB, [-1.0 dB], 0.5 dB step | |
| | | Surround R | | | | |
| | | Subwoofer | | | -10.0 to +10.0 dB, [0.0 dB], 0.5 dB step | |
| | Equalizer | EQ Select | | | PEQ / [GEQ] / Off

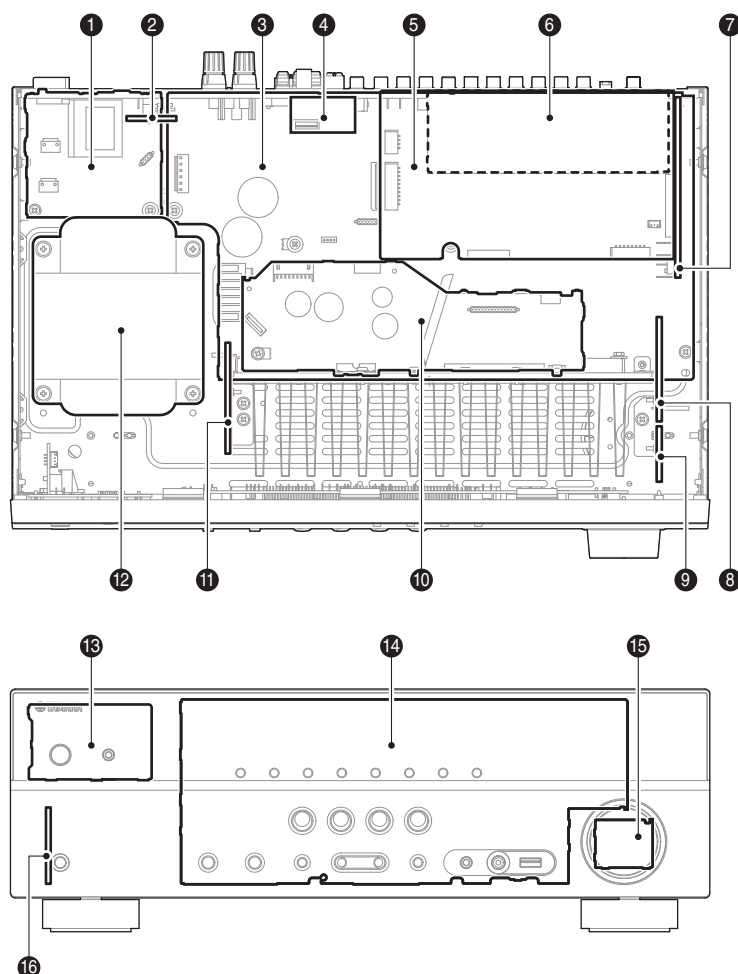
* “PEQ” is available only when the YPAO has been performed
“PEQ” は自動測定（YPAO）を行った場合のみ選択可能 | |
| | | GEQ Edit | Front L | 63 Hz | | -6.0 to +6.0 dB, [0 dB], 0.5 dB step |
| | | | Front R | 160 Hz | | |
| | | | Center | 400 Hz | | |
| | | | Surround L | 1 kHz | | |
| | | | Surround R | 2.5 kHz | | |
| | | | | 6.3 kHz | | |
| | | | | 16 kHz | | |
| | Test Tone | | | | [Off] / On | |
| HDMI | Configuration | HDMI Control | | | [Off] / On | |
| | | Audio Output | Amp | | Off / [On] | |
| | | | HDMI OUT (TV) | | [Off] / On

* This setting is available only when “HDMI Control” is set to “Off”.
“HDMI Control” が “Off” の場合のみ設定可能 | |
| | | TV Audio Input | | | AV1 / AV2 / AV3 / [AV4] / AV5 / AUDIO1 / AUDIO2 | |
| | | Standby Sync | | | Off / On / [Auto] | |
| | | ARC | | | Off / [On] | |
| | | SCENE | BD / DVD | | Off / [On] | |
| | | | TV | | | |
| | | | CD | | [Off] / On | |
| | | | RADIO | | | |

| MAIN MENU | SUB-MENU | PARAMETER | VALUE [INITIAL VALUE] |
|-----------|---|----------------|--|
| Sound | DSP Parameter | Panorama | [Off] / On |
| | | Center Width | 0 to 7, [3] |
| | | Dimension | -3 to +3, [0] |
| | | Center Image | 0.0 to 1.0, [0.3] |
| | Lipsync | Select | Manual / [Auto] |
| | | Adjustment | 0 to 250 ms, [0 ms], 1 ms step |
| | Volume | Dynamic Range | [Maximum] / Standard / Min/Auto |
| | | Max Volume | -30.0 to +15.0 dB / +16.5 dB (Maximum volume), [+16.5 dB], 5.0 dB step |
| | | Initial Volume | [Off] / Mute / -80.0 to +16.5 dB, 0.5 dB step |
| ECO | Auto Power Down | | U, C, R, T, K, A, L, S, H, J models: [Off] / 2 hours / 4 hours / 8 hours / 12 hours
B, G, F models: Off / 2 Hours / 4 Hours / [8 Hours] / 12 Hours |
| | ECO Mode | | [Off] / On |
| Function | Input Rename | | Input sources: HDMI1 / HDMI2 / HDMI3 / HDMI4 / AV1 / AV2 / AV3 / AV4 / AV5 / AUDIO1 / AUDIO2 / USB / V-AUX

Input is possible to 9 characters
Input possible Character type
Capital: A to Z
Small: a to z
Figure: 0 to 9
Symbols: # * + , - etc.
Space
Preset name select: Blu-ray / DVD / SetTopBox / Game / TV / DVR / CD / CD-R / Satellite / VCR / Tape / MD / PC / iPod / HD DVD |
| | Dimmer | | -4 to 0 (higher to brighten), [-2] |
| | Memory Guard | | [Off] / On |
| | Language
(U, C, R, T, K, A, B, G, F, L, S, H models) | | English (English) / Français (French) / Deutsch (German) / Español (Spanish) / Русский (Russian) / 中文 (Chinese) |

■ INTERNAL VIEW



- ① OPERATION (3) P.C.B.
- ② MAIN (3) P.C.B. (R, S models)
- ③ MAIN (1) P.C.B.
- ④ AM/FM TUNER
- ⑤ DIGITAL P.C.B.
- ⑥ MAIN (2) P.C.B.
- ⑦ OPERATION (4) P.C.B.
- ⑧ MAIN (4) P.C.B.
- ⑨ OPERATION (9) P.C.B.
- ⑩ OPERATION (2) P.C.B.
- ⑪ OPERATION (8) P.C.B.
- ⑫ POWER TRANSFORMER
- ⑬ OPERATION (7) P.C.B.
- ⑭ OPERATION (1) P.C.B.
- ⑮ OPERATION (6) P.C.B.
- ⑯ OPERATION (5) P.C.B.

■ SERVICE PRECAUTIONS / サービス時の注意事項

Safety measures

- Some internal parts in this product contain high voltages and are dangerous.
Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there.
Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity.
The time required for discharging is about 30 seconds per each.

C46 and C47 on MAIN (1) P.C.B.

C1501 on OPERATION (3) P.C.B.

For details, refer to "PRINTED CIRCUIT BOARDS".

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用などの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。
修理作業前に放電用抵抗 (5 k Ω /10 W) を下記の各コンデンサの端子間に接続して放電してください。
放電所用時間は各々約 30 秒間です。

MAIN (1) P.C.B. の C46、C47

OPERATION (3) P.C.B. の C1501

詳しくは "PRINTED CIRCUIT BOARDS" を参照してください。

■ DISASSEMBLY PROCEDURES / 分解手順

(Remove parts in the order as numbered.)

Disconnect the power cable from the AC outlet.

(番号順に部品を外してください。)

AC 電源コンセントから、電源コードを抜いてください。

1. Removal of Top Cover

- Remove 5 screws (①) and 4 screws (②). (Fig. 1)
- Lift the rear of the top cover to remove it. (Fig. 1)

1. トップカバーの外し方

- ①のネジ 5 本、②のネジ 4 本を外します。(Fig. 1)
- トップカバーの後部を持ち上げ、外します。(Fig. 1)

2. Removal of Front Panel Unit

- Remove 7 screws (③). (Fig. 1)
- Remove CB166, CB193, CB221 and CB281. (Fig. 1)
- Unlock and remove CB136. (Fig. 1)
- Release hook, and then remove the front panel unit. (Fig. 1)

2. フロントパネルユニットの外し方

- ③のネジ 7 本を外します。(Fig. 1)
- CB166、CB193、CB221、CB281 を外します。(Fig. 1)
- ロックを外し、CB136 を外します。(Fig. 1)
- フック 1 箇所を外し、フロントパネルユニットを外します。(Fig. 1)

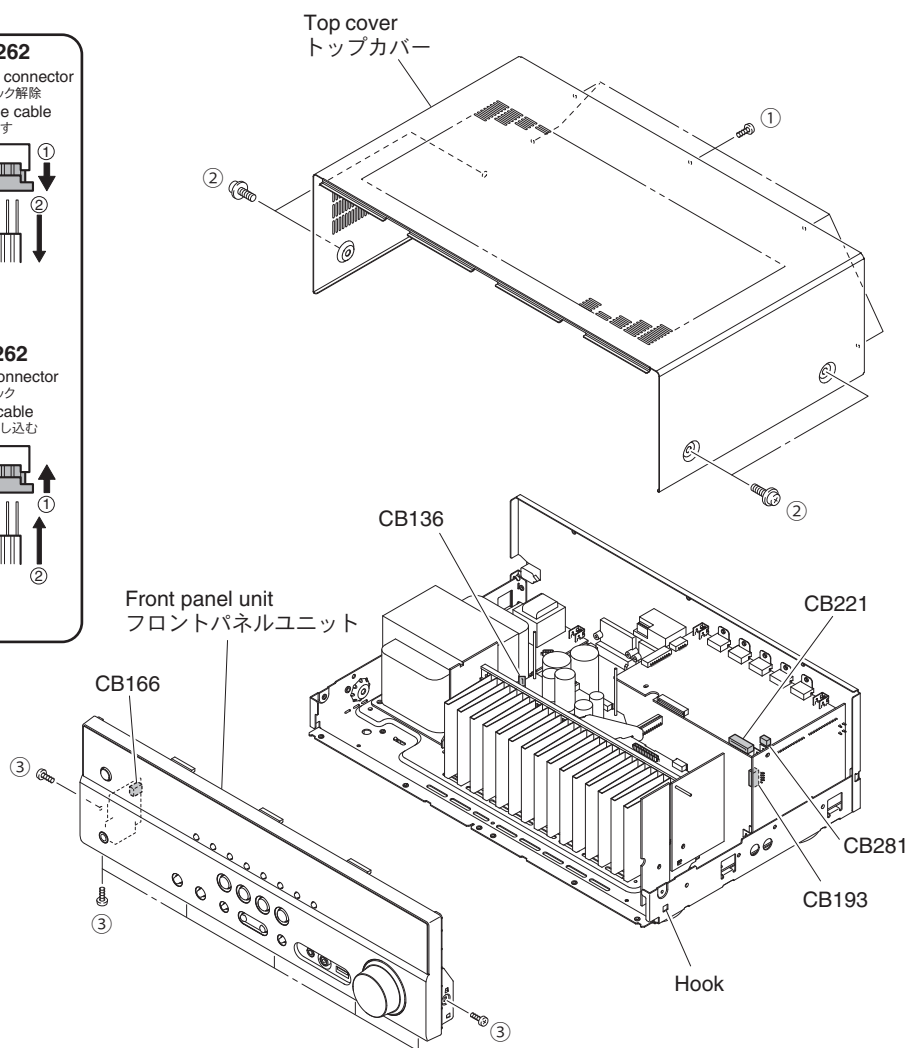
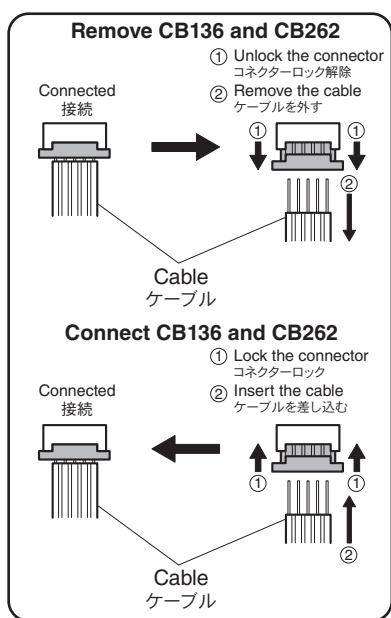


Fig. 1

3. Removal of DIGITAL P.C.B.

- Remove CB222 and CB223 (Fig. 2)
- Unlock and remove CB262. (Fig. 2)
- Remove screw (④). (Fig. 2)
- Remove 2 screws (⑤) and 5 screws (⑥). (Fig. 3)
- Remove the DIGITAL P.C.B. which is connected directly to the OPERATION (4) P.C.B. with board-to-board connectors. (Fig. 2)

4. Removal of OPERATION (4) P.C.B.

- Remove CB194. (Fig. 2)
- Remove screw (⑦). (Fig. 2)
- Remove screw (⑧). (Fig. 3)
- Remove the OPERATION (4) P.C.B. which is connected directly to the MAIN (1) P.C.B. with board-to-board connectors. (Fig. 2)

3. DIGITAL P.C.B. の外し方

- CB222、CB223 を外します。(Fig. 2)
- ロックを外し、CB262 を外します。(Fig. 2)
- ④のネジ 1 本を外します。(Fig. 2)
- ⑤のネジ 2 本、⑥のネジ 5 本を外します。(Fig. 3)
- DIGITAL P.C.B. を外します。ただし、DIGITAL P.C.B. は OPERATION (4) P.C.B. に基板対基板コネクタで直接接続されています。(Fig. 2)

4. OPERATION (4) P.C.B. の外し方

- CB194 を外します。(Fig. 2)
- ⑦のネジ 1 本を外します。(Fig. 2)
- ⑧のネジ 1 本を外します。(Fig. 3)
- OPERATION (4) P.C.B. を外します。ただし、OPERATION (4) P.C.B. は MAIN (1) P.C.B. に基板対基板コネクタで直接接続されています。(Fig. 2)

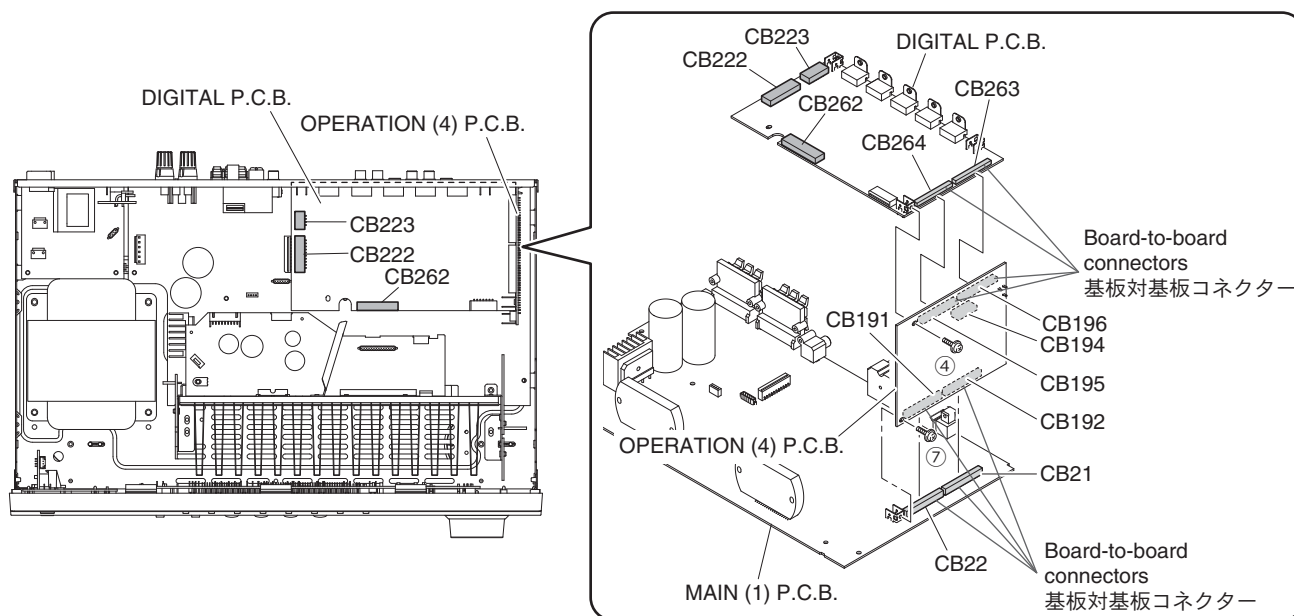


Fig. 2

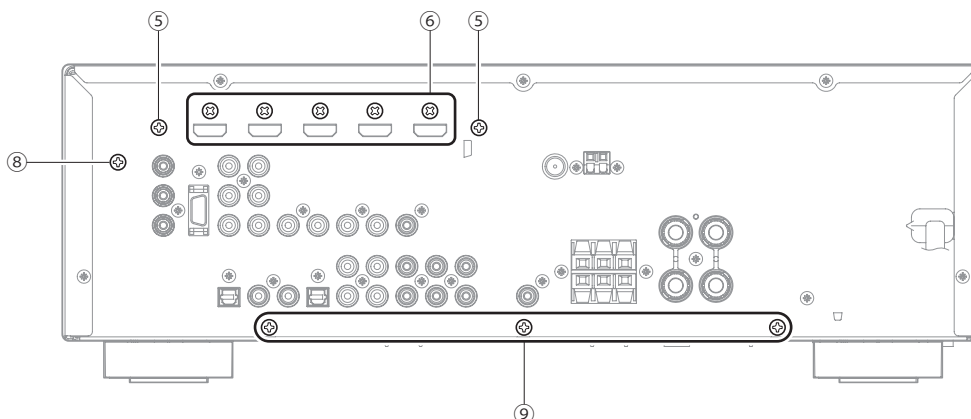


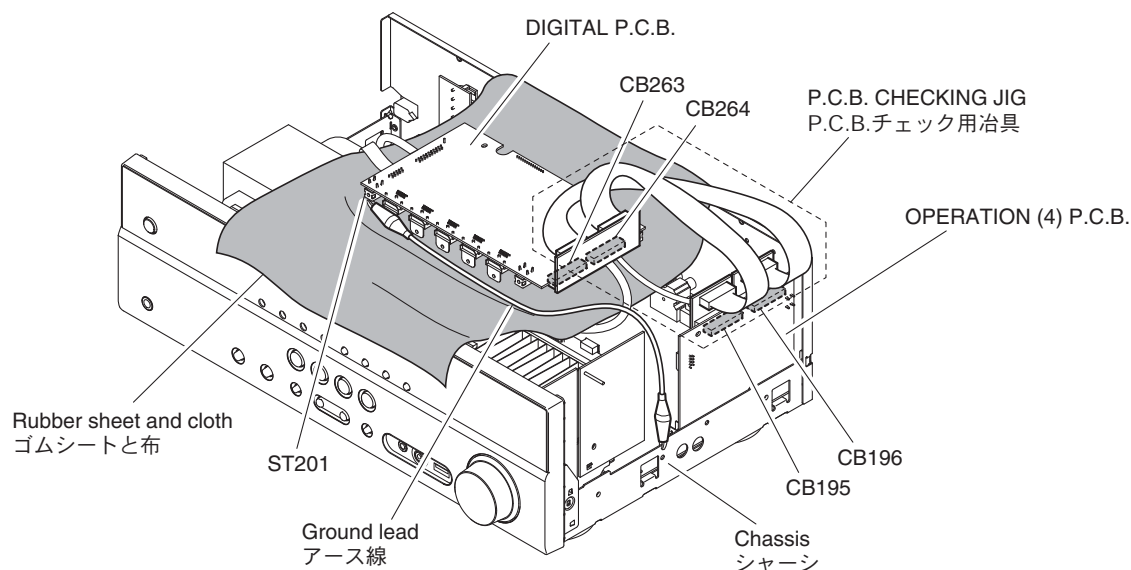
Fig. 3

When checking the DIGITAL P.C.B.:

- Put the rubber sheet and cloth over this unit, and place the DIGITAL P.C.B. on them. (Fig. 4)
- Connect ST201 on DIGITAL P.C.B. to the chassis with a ground lead. (Fig. 4)
- Reconnect all cables (connectors) that have been disconnected. Be sure to use the P.C.B. CHECKING JIG (Part No. WW483800) to connect between the following connectors.
CB263 on DIGITAL P.C.B. – CB196 on OPERATION (4) P.C.B.
CB264 on DIGITAL P.C.B. – CB195 on OPERATION (4) P.C.B.
- When connecting the flexible flat cable, be careful with polarity.

DIGITAL P.C.B. をチェックする場合には：

- 本機の上にゴムシートと布を敷き、その上に DIGITAL P.C.B. を置きます。(Fig. 4)
- DIGITAL P.C.B. の ST201 のアースをリード線でシャーシに接続してください。(Fig. 4)
- 外したケーブル（コネクタ）をすべて接続します。ただし下記のコネクター間を接続するには P.C.B. チェック用治具（部品番号：WW483800）を使用してください。
DIGITAL P.C.B. の CB263 – OPERATION (4) P.C.B. の CB196
DIGITAL P.C.B. の CB264 – OPERATION (4) P.C.B. の CB195
- フラットケーブルを接続する際、極性に注意してください。

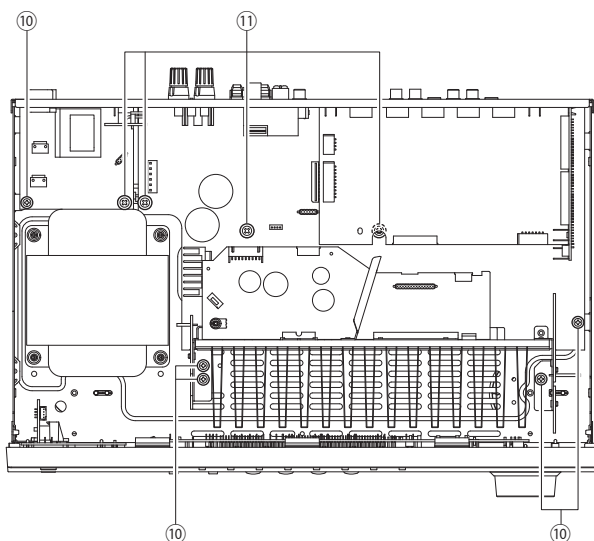
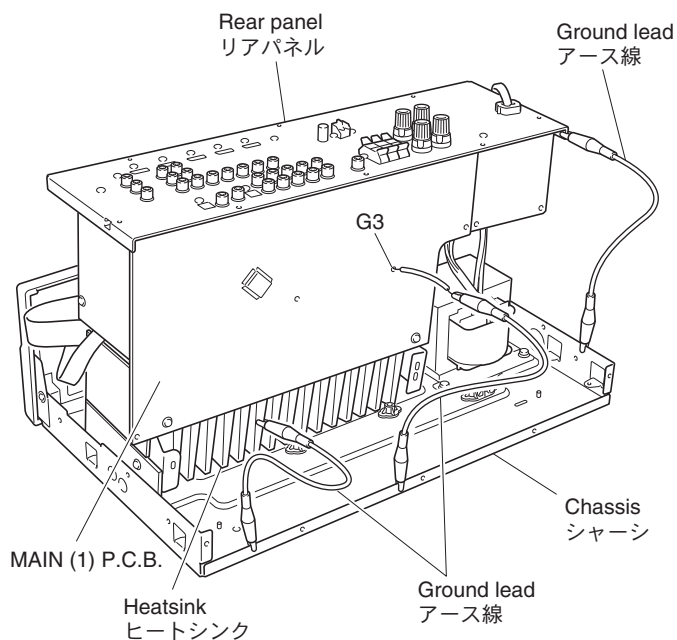
**Fig. 4**

When checking the MAIN (1) P.C.B.:

- Remove the top cover. (Fig. 1)
- Remove 3 screws (⑨). (Fig. 3)
- Remove 5 screws (⑩) and 4 screws (⑪). (Fig. 5)
- Place the P.C.B.s (with rear panel) upright. (Fig. 6)
- Connect the heatsink, rear panel and MAIN (1) P.C.B. (G3) to the chassis with a ground lead. (Fig. 6)

MAIN (1) P.C.B. をチェックする場合には：

- トップカバーを外します。(Fig. 1)
- ⑨のネジ3本を外します。(Fig. 3)
- ⑩のネジ5本、⑪のネジ4本を外します。(Fig. 5)
- リアパネルと一緒に P.C.B. を立ち上げて置きます。(Fig. 6)
- ヒートシンク、リアパネル、MAIN (1) P.C.B. の G3 のアースをリード線でシャーシに接続してください。(Fig. 6)

**Fig. 5****Fig. 6**

■ UPDATING FIRMWARE / ファームウェアのアップデート

When the following parts are replaced, the firmware must be updated to the latest version.

DIGITAL P.C.B.

OSD FLASH ROM: IC201 on DIGITAL P.C.B.

USB FLASH ROM: IC222 on DIGITAL P.C.B.

DSP FLASH ROM: IC243 on DIGITAL P.C.B.

Note: There are 2 types procedures for updating the firmware. One is for the U, C, R, K, A, B, G, F, L, S, H and J models, and another is for the T model. Perform either depending on the destinations.

● Confirmation of firmware version and checksum

Before and after updating the firmware, check the firmware version and checksum by using the self-diagnostic function menu.

Start up the self-diagnostic function and select "25. ROM VER/SUM" menu.

Using the sub-menu, have the firmware version and checksum displayed, and note them down.
(See "SELF-DIAGNOSTIC FUNCTION")

* When the firmware version is different from written one after updating, perform the updating procedure again from the beginning.

● Initializing the back-up IC (EEPROM: IC221 on DIGITAL P.C.B.)

After updating the firmware, the back-up IC MUST be initialized by the following procedure store the setting information (soundfield parameters, system memory and tuner presetting, etc.) properly.

Start up the self-diagnostic function and select "24. FACTORY PRESET" menu. (See "SELF-DIAGNOSTIC FUNCTION")

Select "PRESET RSRV", press the "⏻" (Power) key to turn off the power once and turn on the power again. Then the back-up IC is initialized.

下記の部品を交換した場合、ファームウェアを最新バージョンにアップデートする必要があります。

DIGITAL P.C.B.

OSD フラッシュ ROM : DIGITAL P.C.B. の IC201

USB フラッシュ ROM : DIGITAL P.C.B. の IC222

DSP フラッシュ ROM : DIGITAL P.C.B. の IC243

注意: ファームウェアアップデートの手順は2種類あります。ひとつはU、C、R、K、A、B、G、F、L、S、H、J仕向け用で、もうひとつはT仕向け用です。仕向け先に応じてどちらかを実行してください。

● ファームウェアのバージョンとチェックサムの確認

ファームウェアのアップデートの前後に、ファームウェアのバージョンとチェックサムをダイアグで確認します。

ダイアグを起動し、"25. ROM VER/SUM" メニューを選択します。

サブメニューでファームウェアのバージョンとチェックサムを表示し、それらを書きとめます。
(「ダイアグ」参照)

※ アップデート後、ファームウェアのバージョンが書き込まれたものと異なる場合、アップデートの操作を最初からやり直してください。

● バックアップ IC の初期化 (EEPROM : DIGITAL P.C.B. の IC221)

ファームウェアのアップデート後、設定情報（音場プログラムのパラメーターやシステムメモリー、チューナープリセット等）を正常に保存するために、下記の方法でバックアップ IC を初期化する必要があります。

本機のダイアグを起動し、"24. FACTORY PRESET" メニューを選択します。
(「ダイアグ」参照)

"PRESET RSRV" を選択し、"⏻"（電源）キーを押して電源を一度きってから、もう一度電源を入れるとバックアップ IC が初期化されます。

Updating U, C, R, K, A, B, G, F, L, S, H and J models

● Required Tools

- USB storage device
- Firmware
RX-V373/HTR-3065: R0303-xxx.bin

● Preparation

1. Download the latest firmware from the specified download source to the folder of the PC.
2. Copy the latest firmware from the PC to the root folder of the USB storage device.

Note: When the latest firmware is copied to a sub-folder of the USB storage device, the update will not proceed.

● Operation Procedures

1. Insert the USB storage device to the USB jack.
(Fig. 1)
2. While pressing the "INFO" key, connect the power cable to the AC outlet. (Fig. 1)

U、C、R、K、A、B、G、F、L、S、H、J 仕向けのアップデート

● 必要なツール

- USB フラッシュメモリ
- ファームウェア
RX-V373 / HTR-3065 : R0303-xxx.bin

● 準備

1. 指定のダウンロード先から、最新のファームウェアを PC のフォルダへダウンロードしてください。
2. PC から USB フラッシュメモリのルートフォルダへ最新のファームウェアをコピーします。

注意: 最新のファームウェアをサブフォルダにコピーした場合、書き込みはできません。

● 操作手順

1. USB 端子に USB フラッシュメモリを差し込みます。(Fig. 1)
2. "INFO" キーを押しながら、電源コードを AC コンセントに接続します。(Fig. 1)

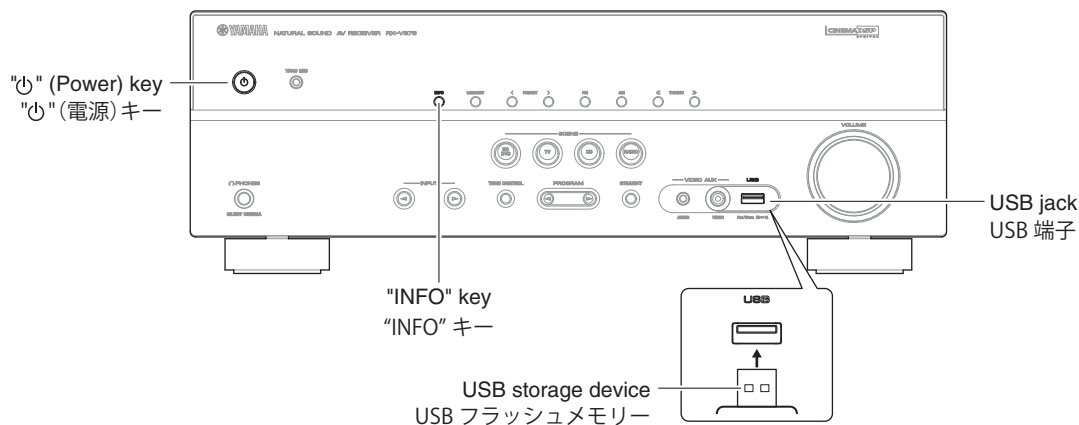


Fig. 1

3. The USB UPDATE mode is activated and "USB Update" is displayed. Writing of the firmware starts automatically. (Fig. 2)

Writing is started. / 書き込み開始

USB Update



VERIFYING...



Sx-x:xx%

Writing being executed. / 書き込み中

Fig. 2

4. When writing of the firmware is completed, "Update Success", "Please..." and "Power Off!" are displayed repeatedly. (Fig. 3)

Writing is completed. / 書き込み完了

Update Success



Please...



Power Off!



Fig. 3

5. Press the "⏻" (Power) key to turn off the power. (Fig. 1)
6. Remove the USB storage device from the USB jack. (Fig. 1)
7. Start up the self-diagnostic function and check that the firmware version and checksum are the same as written ones. (See "Confirmation of firmware version and checksum")

3. USB UPDATE モードが起動し、"USB Update" が表示されて、ファームウェアの書き込みが自動的に開始されます。(Fig. 2)

4. ファームウェアの書き込み完了後、"Update Success"、"Please..."、"Power Off!" が繰り返し表示されます。(Fig. 3)

5. "⏻" (電源) キーを押して電源を切ります。(Fig. 1)
6. USB 端子から USB フラッシュメモリーを抜きます。(Fig. 1)
7. ダイアグを起動し、ファームウェアのバージョンとチェックサムが、書き込まれたものと同じであることを確認します。("ファームウェアのバージョンとチェックサムの確認" 参照)

Updating T model

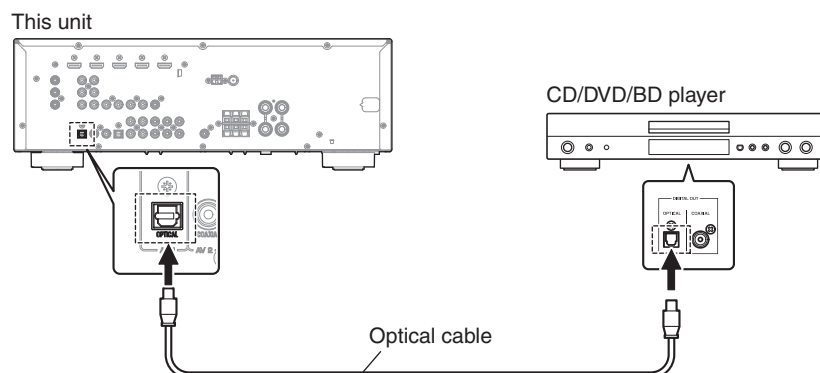
● Required Tools

- CD, DVD or BD player (with DIGITAL OUTPUT (OPTICAL or COAXIAL) jack)
 - * The following models can be used as a tool to update the firmware.
 - CD player: CD-C600/CD-S1000/CD-S2000/CD-S300/CD-S700/CDX-496/CDX-596/CDX-890
 - DVD player: DV-C6760/DVD-840/DVD-C740/DVD-C750/DVD-C940/DVD-C950/DVD-CX1/DVD-S1200/DVD-S1800/DVD-S2300(MKII)/DVD-S2700/DVD-S30/DVD-S510/DVD-S520/DVD-S530/DVD-S540/DVD-S550/DVD-S657/DVD-S700/DVD-S80/DVD-S840
 - BD player: BD-940/BD-S1065/BD-S1900/BD-S2900/BD-S671
 - Others: CDR-D651/CDR-HD1000/CDR-HD1300/CDR-HD1500/DV-SL100/CDX-E100/CRX-430/CRX-E150/RDX-E700
- Optical cable (when OPTICAL jack is used)
- Digital audio pin cable (when COAXIAL jack is used)
- Firmware CD
 - * Download the latest firmware from the specified download source and create the firmware CD.

● Connection

Connect a CD/DVD/BD player to this unit as shown below. (Fig. 4)

Example of connection between digital OPTICAL jacks



Example of connection between digital COAXIAL jacks

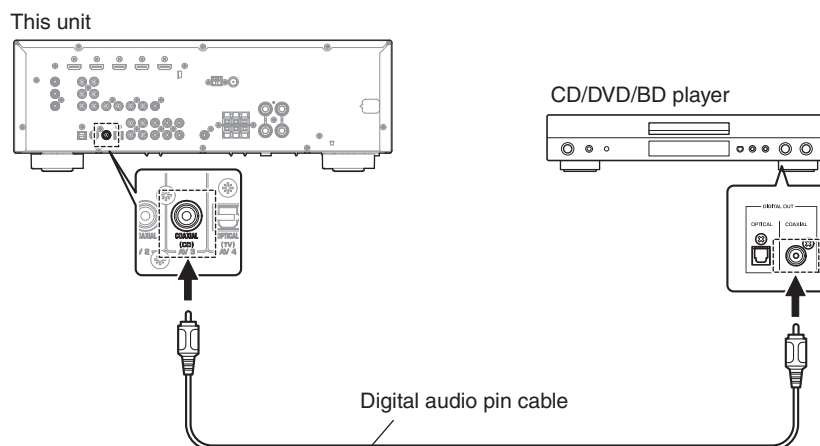


Fig. 4

● Operation Procedures

1. While pressing the "MEMORY" key, connect the power cable to the AC outlet. (Fig. 5)
The FIRMWARE UPDATE mode is activated and "CDDA Upgrader" is displayed. (Fig. 5)

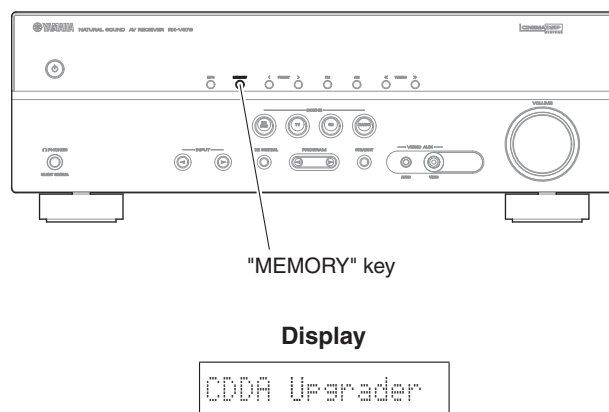


Fig. 5

2. Play the firmware CD on the CD/DVD/BD player. Writing of the firmware starts automatically. (Fig. 6)
3. When writing of the firmware is completed, "Update Success", "Please..." and "Power off!!" are displayed repeatedly. (Fig. 6)

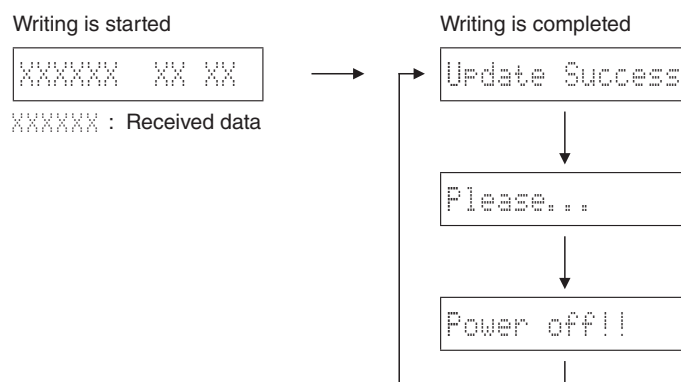


Fig. 6

* If the display remains unchanged for more than 10 seconds after starting the firmware CD play procedure, perform the firmware CD play procedure again from the beginning.

4. Press the "⏻" (Power) key to turn off the power.
5. Eject the firmware CD from the CD/DVD/BD player.
6. Start up the self-diagnostic function and check that the firmware version and checksum are the same as written ones. (See "Confirmation of firmware version and checksum")

■ SELF-DIAGNOSTIC FUNCTION / ダイアグ（自己診断機能）

This unit has self-diagnostic functions that are intended for inspection, measurement and location of faulty point.

There are 26 main menu items, each of which has sub-menu items.

Listed in the table below are main menu items and sub-menu items.

Note: Some of the menu items listed below may not apply to the models covered in this service manual.

本機には、検査、測定、不良個所の発見を目的にしたダイアグ（自己診断機能）があります。

ダイアグには 26 個のメインメニューがあり、そのそれぞれにサブメニューがあります。

下表はダイアグメニュー一覧です。

注意：以下のメニュー項目の一部は、このサービスマニュアルに記載されているモデルに適用されない場合があります。

| No. | Main menu | Sub-menu | |
|-----|--|----------|---|
| 1 | BYPASS | 1 | ANALOG BYPASS |
| 2 | RAM THROUGH | 1 | RAM MARGIN |
| | | 2 | RAM FULL ALL |
| | | 3 | RAM FULL CENTER |
| | | 4 | RAM FULL SURROUND |
| | | 5 | RAM FULL SURROUND BACK (Not for service / サービスでは使用しません) |
| | | 6 | RAM FULL SUBWOOFER |
| 3 | HDMI AUDIO | 1 | SPDIF |
| | | 2 | Multi |
| | | 3 | DSD |
| | | 4 | ARC |
| 4 | SPEAKERS SET | 1 | FRONT: SML 0dB |
| | | 2 | CENTER: NONE |
| | | 3 | LFE/BASS: FRNT |
| | | 4 | TONE: MAX |
| | | 5 | TONE: MIN |
| | | 6 | SPEAKER 6-ohms (Not for service / サービスでは使用しません) |
| 5 | LIMITER CONTROL
(Not for service / サービスでは使用しません) | 1 | AC_B: Hi |
| | | 2 | AC_B: Lo |
| | | 3 | LIM/PLDET/THM |
| 6 | MIC CHECK
(U, C, R, K, A, B, G, F, L, S, H, J models) | 1 | MIC CHECK |
| 7 | FL/MONITOR CHECK | 1 | INITIAL DISPLAY |
| | | 2 | ALL SEGMENT OFF/MONITOR (VIDEO) MUTE |
| | | 3 | ALL SEGMENT ON/MONITOR (COMPONENT) MUTE |
| | | 4 | CHECK PATTERN 1 |
| | | 5 | CHECK PATTERN 2 |
| 8 | MANUAL TEST | 1 | TEST ALL |
| 9 | AD DATA CHECK | 1 | PS/DC |
| | | 2 | TH1/TH2 (U, C models) |
| | | 3 | TH3 |
| | | 4 | AMP |
| | | 5 | K1/K2 |
| 10 | VIDEO CHECK | 1 | I2C |
| | | 2 | DIGITAL COMPONENT (Not for service / サービスでは使用しません) |
| | | 3 | DIGITAL CVBS (Not for service / サービスでは使用しません) |
| | | 4 | DIGITAL Y/C (Not for service / サービスでは使用しません) |
| | | 5 | ANALOG BYPASS |

| No. | Main menu | Sub-menu | |
|-----|---|------------|---|
| 11 | NO MENU | Invalidity | |
| 12 | NO MENU | Invalidity | |
| 13 | NO MENU | Invalidity | |
| 14 | NO MENU | Invalidity | |
| 15 | HDMI INFORMATION | 1 | MODEL NAME |
| | | 2 | PRODUCT ID |
| 16 | HDMI SELECT | 1 | HDMI NONE |
| | | 2 | HDMI IN 1 |
| | | 3 | HDMI IN 2 |
| | | 4 | HDMI IN 3 |
| | | 5 | HDMI IN 4 |
| 17 | USB
(U, C, R, K, A, B, G, F, L, S, H, J models) | 1 | USB FILE 1 |
| | | 2 | USB FILE 2 |
| | | 3 | USB IPL: OK |
| | | 4 | USB iPod CHECK |
| 18 | NO MENU | Invalidity | |
| 19 | BUS CHECK | 1 | TI BUS: |
| | | 2 | EEPROM: |
| 20 | NO MENU | Invalidity | |
| 21 | PROTECTION HISTORY | 1 | HISTORY 1 |
| | | 2 | HISTORY 2 |
| | | 3 | HISTORY 3 |
| | | 4 | HISTORY 4 |
| 22 | SOFT SWITCH | 1 | SWITCH MODE |
| | | 2 | MODEL |
| | | 3 | DESTINATION |
| 23 | UPDATE
(Not for service / サービスでは使用しません) | 1 | TI FLASH BOOT |
| 24 | FACTORY PRESET | 1 | PRESET INHIBIT |
| | | 2 | PRESET RESERVED |
| 25 | ROM VER/SUM/PORT | 1 | SYSTEM VERSION |
| | | 2 | FIRMWARE VERSION |
| | | 3 | ALL CHECKSUM |
| | | 4 | TI (DSP) FLASH ROM VERSION |
| | | 5 | TI (DSP) FLASH ROM CHECKSUM |
| | | 6 | OSD FLASH ROM VERSION |
| | | 7 | OSD FLASH ROM CHECKSUM |
| | | 8 | USB FLASH ROM VERSION |
| | | 9 | USB FLASH ROM CHECKSUM |
| | | 10 | MODEL/DESTINATION |
| | | 11 | Verify (Not for service / サービスでは使用しません) |
| 26 | MODEL/DESTINATION
(Not for service / サービスでは使用しません) | 1 | MODEL/DEST |
| | | 2 | M/D: |

● Starting Self-Diagnostic Function

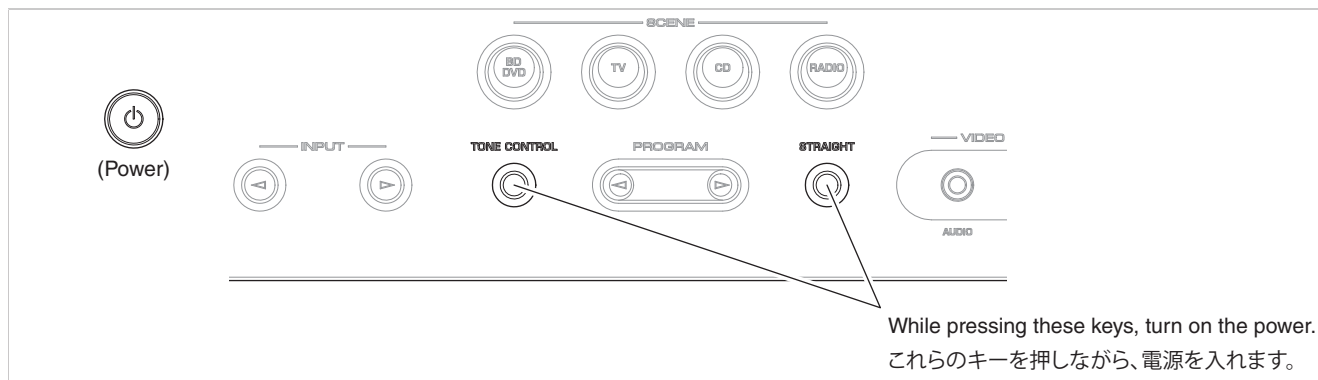
While pressing the “TONE CONTROL” and “STRAIGHT” keys, press the “” (Power) key to turn on the power, and release those 2 keys.

The self-diagnostic function mode is activated.

● ダイアグの起動

“TONE CONTROL” と “STRAIGHT” キーを押しながら “” (電源) キーを押して電源を入れた後、2つのキーを放します。ダイアグが起動します。

Keys of this unit / 本機キー



● Starting Self-Diagnostic Function in the protection cancel mode

If the protection function works and causes hindrance to troubleshooting, cancel the protection function by the procedure below, and it will be possible to enter the self-diagnostic function mode. (The protection functions other than the excess current detect function will be disabled.)

While pressing the “TONE CONTROL” and “STRAIGHT” keys, press the “” (Power) key to turn on the power and keep pressing those 2 keys and “” (Power) key for 3 seconds or longer.

The self-diagnostic function mode is activated with the protection functions disabled.

In this mode, the “SLEEP” segment of the FL display flashes to indicate that the mode is self-diagnostic function mode with the protection functions disabled.

● プロテクション解除モードでの起動

プロテクションが動作することにより、故障箇所の診断に支障をきたすような場合は、次の方法によりプロテクションを解除した状態でダイアグモードに入ることができます。(過電流検出以外のプロテクション動作を解除する)

“TONE CONTROL” と “STRAIGHT” キーを押しながら “” (電源) キーを押して電源を入れ、2つのキーと “” (電源) キーを3秒以上押し続けます。

プロテクション解除モードでダイアグが起動します。

このモードではFLの“SLEEP”セグメントが点滅し、プロテクションを解除した状態でのダイアグモードであることを知らせます。

CAUTION!

Using this unit with the protection function disabled may cause further damage to this unit. Use special care for this point when using this mode.

注意！

プロテクションを解除した状態でのダイアグモードは、危険な状態でもプロテクションが作動しないため、動作させると、本機を破壊することがあります。このモードを使用する場合は十分注意してください。

● Canceling Self-Diagnostic Function

- Before canceling self-diagnostic function, execute setting for "24. FACTORY PRESET" menu. (Memory initialization inhibited or Memory initialized).
 - * In order to keep the user memory preserved, be sure to select PRESET INHIBIT (Memory initialization inhibited).
- Press the "⏻" (Power) key to turn off the power.

● ダイアグの解除

- ダイアグを解除する前に、"24. FACTORY PRESET" メニュー（メモリーの初期化禁止／またはメモリーの初期化）の設定をします。
 - ※ ユーザーメモリーを保持したい場合は、必ず PRESET INHIBIT（メモリー初期化禁止）を選択してください。
- "⏻"（電源）キーを押して電源を切ります。

● Display provided when Self-Diagnostic Function started

The display is as described below depending on the situation when the power to this unit is turned off.

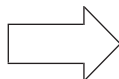
1. When the power is turned off by usual operation:

"NO PROTECT" is displayed. Then "1. ANALOG BYPASS" is displayed in a few seconds.

Opening message / オープニング表示

NO PROTECT

After a few seconds / 数秒後



1. ANALOG BYPAS

● ダイアグ起動時の表示

本機の電源が切れたときの状況により、下記のように表示されます。

1. 通常の操作で電源を切った場合：

"NO PROTECT" が表示されます。数秒後、"1. ANALOG BYPASS" が表示されます。

Main menu display / メインメニュー表示

2. When the protection function worked to turn off the power:

The information of protection function which worked at that time is displayed. Then "1. ANALOG BYPASS" is displayed in a few seconds.

Note: At that time if you restart the self-diagnostic function after turning off the power once, "NO PROTECT" will be displayed. That is because that situation is equal to "1. When the power is turned off by usual operation:".

However history of the protection function is stored in memory as backup data. For details, refer to "21. PROTECTION HISTORY" menu.

2-1. When there is a history of protection function due to excess current.

I PROTECT

Cause: An excessive current flowed through the power amplifier.

Supplementary information: As current of the power amplifier is detected, the abnormal channel can be identified by checking the current detect transistor.

Turning on the power without correcting the abnormality will cause the protection function to work immediately and the power supply will instantly be shut off.

Notes:

- Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if "I PROTECT" protection function works 1 time, the power will not turn on even when the "⏻" (Power) key is pressed. In order to turn on the power again, start up the self-diagnostic function.
- The output transistors in each amplifier channel should be checked for damage before applying power to this unit.
- Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.

2. プロテクションが働いて電源が切れた場合:

そのときに働いたプロテクションの情報が表示されます。数秒後、"1. ANALOG BYPASS" が表示されます。

注) このとき、一旦電源を切った後にダイアグを再起動すると、"NO PROTECT" が表示されます。それは、その状況が「1. 通常の操作で電源を切った場合:」と同じだからです。

ただし、プロテクションの履歴はバックアップデータとしてメモリーに保存されます。詳細は、"21. PROTECTION HISTORY" メニューを参照してください。

2-1. 過電流によるプロテクション履歴がある場合

原因: パワーアンプに過電流が流れた。

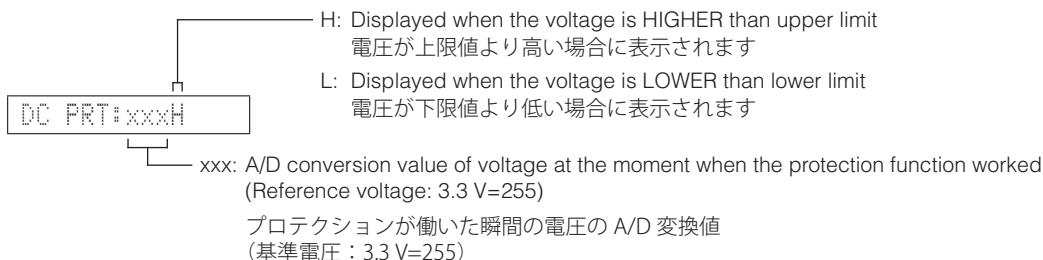
補足: パワーアンプの電流を検出していますので、電流検出トランジスタをチェックすれば異常チャンネルが特定できます。

異常状態のまま電源を入れると、瞬時にプロテクションが働き、すぐに電源が切れます。

注意:

- 異常状態のまま本機の電源を入れると、危険な状態になり、さらに回路が損傷を受ける原因になります。それを避けるために、「I PROTECT」が1回働いた場合、それ以降 "⏻" (電源) キーを押しても電源が入らなくなります。再度電源を入れる場合、ダイアグを起動してください。
- 本機の電源をいれる前に、各パワーアンプの出力トランジスタに損傷がないかチェックしてください。
- パワーアンプの電流は、各チャンネルのエミッターの抵抗器間 DC 電圧を測定することによりモニターしてください。

2-2. When the protection function worked due to abnormal DC output.



Cause: DC output of the power amplifier is abnormal.

Supplementary information: The protection function worked due to a DC voltage appearing at the speaker terminal. A cause could be a defect in the amplifier.

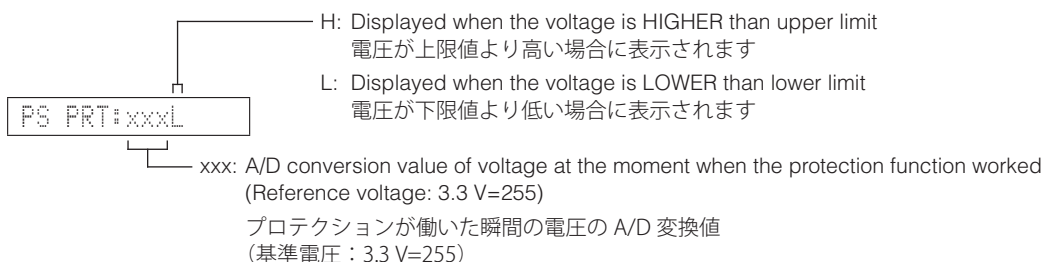
Turning on the power without correcting the abnormality will cause the protection function to work in 5 seconds and the power supply will be shut off.

原因: パワーアンプの DC 出力が異常。

補足: アンプの故障でスピーカー端子に直流電圧が掛かるなどが原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、5 秒後にプロテクションが働き、電源が切れます。

2-3. When the protection function worked due to abnormal voltage in the power supply section.



Cause: The voltage in the power supply section is abnormal.

Supplementary information: The protection function worked due to a defect or overload in the power supply.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

2-3. 電源部の電圧異常によりプロテクションが働いた場合

原因: 電源部の電圧が異常。

補足: 電源電圧による原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、1 秒後にプロテクションが働き、電源が切れます。

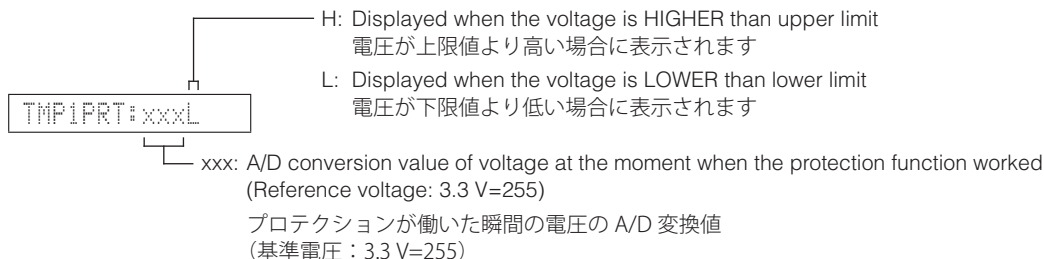
Notes:

- Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if "PS" and "DC" protection function works 3 times consecutively, the power will not turn on even when the "P" (Power) key is pressed. In order to turn on the power again, start up the self-diagnostic function.
- The output transistors in each amplifier channel should be checked for damage before applying power to this unit.
- Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.

注意:

- 異常状態のまま本機の電源を入れると、危険な状態になり、さらに回路が損傷を受ける原因になります。それを避けるために、「DC」、「PS」プロテクションが連続して3回目働いた場合、それ以降「P」（電源）キーを押しても電源が入らなくなります。再度電源を入れる場合、ダイアグを起動してください。
- 本機の電源をいれる前に、各パワーアンプの出力トランジスタに損傷がないかチェックしてください。
- パワーアンプの電流は、各チャンネルのエミッターの抵抗器間 DC 電圧を測定することによりモニターしてください。

2-4. When the protection function worked due to excessive heatsink temperature.



Cause: The temperature of the heatsink is excessive.

Supplementary information: The protection function worked due to the temperature limit being exceeded. Causes could be poor ventilation or a defect related to the thermal sensor.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

2-4. ヒートシンクの異常温度によりプロテクションが働いた場合

原因: ヒートシンクの温度が異常。

補足: 温度制限を越えた原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、1 秒後にプロテクションが働き、電源が切れます。

● History of protection function

When the protection function has worked, its history is stored in memory as backup data.

Even if no abnormality is noted while servicing the unit, an abnormality which has occurred previously can be defined as long as the backup data has been stored.

For details, refer to "21. PROTECTION HISTORY" menu.

● プロテクションの履歴

プロテクションが働いた場合、その履歴はバックアップデータとしてメモリーに保存されます。

修理のときに異常が認められなくても、バックアップデータが残っていれば、お客様のところで起きた異常を区別できます。

詳細は、"21. PROTECTION HISTORY" メニューを参照してください。

● Operation procedure of Main menu and Sub-menu

There are 26 main menu items, each of which has sub-menu items.

Main menu selection

Select the main menu using "SCENE TV" (forward) and "SCENE BD/DVD" (reverse) keys.

Sub-menu selection

Select the sub-menu using "SCENE RADIO" (forward) and "SCENE CD" (reverse) keys.

● メインメニューとサブメニューの操作

ダイアグには 26 個のメインメニューがあり、そのそれぞれにサブメニューがあります。

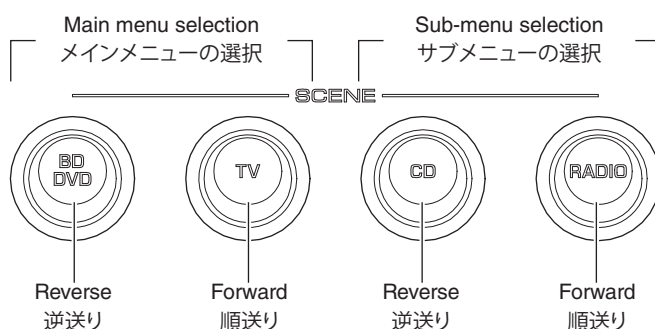
メインメニューの選択

"SCENE TV" (順送り)、"SCENE BD/DVD" (逆送り) キーで選択します。

サブメニューの選択

"SCENE RADIO" (順送り)、"SCENE CD" (逆送り) キーで選択します。

Keys of this unit / 本機キー



● Functions in Self-Diagnostic Function mode

In addition to the self-diagnostic function menu items, functions listed below are available.

- Power ON/OFF
- Master volume
- Muting
- Input selection

* Functions related to the tuner and the set menu are not available.

● ダイアグ中の機能

ダイアグメニューの他に、以下の機能が動作します。

- 電源 オン/オフ
- マスターボリューム
- ミューティング
- インプットセレクト

※ チューナー関連、セットメニュー関連は機能しません。

● Initial settings when Self-Diagnostic Function started

The following initial settings are used when self-diagnostic function is started.

- Master volume: -20 dB
- Input: AV5
- Main menu: 1. ANALOG BYPASS
- Speaker setting: LARGE, Bass out to SWFR (All channels)
- HDMI Control: Off

* When self-diagnostic function is canceled, these settings are restored to those before starting self-diagnostic function.

● ダイアグ開始時の初期設定

ダイアグ開始時に以下のような設定になります。

- マスターボリューム: -20 dB
- インプット: AV5
- メインメニュー: 1. ANALOG BYPASS
- スピーカー設定: LARGE、Bass out to SWFR (すべてのチャンネル)
- HDMI コントロール: OFF

※ ダイアグ解除時にはダイアグ開始前の状態に戻ります。

● Details of Self-Diagnostic Function menu

1. BYPASS

This menu is used to check audio signal route of PURE DIRECT mode.

1-1. ANALOG BYPASS

The analog input audio signal is output to FRONT L/R channels in PURE DIRECT mode.

1. ANALOG BYPASS

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|--------|----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | +11.5 dBm | -∞ | -∞ | -∞ |

2. RAM THROUGH

This menu is used to check audio signal route via DSP.

2-1. RAM MARGIN

The audio signal is output including the head margin.

* When input source is stereo, signal is assigned as below.

Front L: Front L, Center, Surround L

Front R: Front R, Surround R

Front L +10 dB: Subwoofer

2. RAM MARGIN

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|-----------|-----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | +11.5 dBm | +11.5 dBm | +11.5 dBm | -6.5 dBm |

● ダイアグメニュー詳細

1. BYPASS

PURE DIRECT モードの音声信号の経路をチェックします。

1-1. ANALOG BYPASS

アナログ入力の音声信号が PURE DIRECT モードで FRONT L/R チャンネルへ出力されます。

2. RAM THROUGH

DSP を経由する音声信号の経路をチェックします。

2-1. RAM MARGIN

音声信号がヘッドマージンを含んで出力されます。

※ 2ch 信号入力時、以下のように信号が振り分けられて出力されます。

Front L : Front L、Center、Surround L

Front R : Front R、Surround R

Front L +10 dB : Subwoofer

2-2. RAM FULL ALL

The SUBWOOFER signal is output including the head margin.

The audio signal other than SUBWOOFER is output without including the head margin.

2. RAM FULL ALL

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|-----------|-----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | +11.5 dBm | +11.5 dBm | +11.5 dBm | -6.5 dBm |

2-3. RAM FULL CENTER

The audio signal is output to only CENTER channel in digital full bit without including the head margin.

2. RAM FULL C

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|-----------|----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | -∞ | +11.5 dBm | -∞ | -∞ |

2-4. RAM FULL SURROUND

The audio signal is output to only SURROUND L/R channels in digital full bit without including the head margin.

2. RAM FULL SUR

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|--------|-----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | -∞ | -∞ | +11.5 dBm | -∞ |

2-2. RAM FULL ALL

サブウーファースの音声信号がヘッドマージンを含んで出力されます。

サブウーファー以外の音声信号はヘッドマージンを含まず出力されます。

2-3. RAM FULL CENTER

音声信号がヘッドマージンを含まず、デジタルフルビットで CENTER チャンネルのみへ出力されます。

2-4. RAM FULL SURROUND

音声信号がヘッドマージンを含まず、デジタルフルビットで SURROUND L/R チャンネルのみへ出力されます。

2-5. RAM FULL SURROUND BACK

Not for service.

2. RAM FULL SB

2-5. RAM FULL SURROUND BACK

サービスでは使用しません。

2-6. RAM FULL SUBWOOFER

The audio signal is output to only SUBWOOFER channel including the head margin.

2. RAM FULL SW

2-6. RAM FULL SUBWOOFER

音声信号がヘッドマージンを含んで、SUBWOOFER チャンネルのみへ出力されます。

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Input level | Volume | SPEAKER OUTPUT | | | SUBWOOFER OUTPUT |
|------------------|---------|----------------|--------|----------|------------------|
| | | FRONT | CENTER | SURROUND | |
| Both ch, -20 dBm | +6.5 dB | -∞ | -∞ | -∞ | -6.5 dBm |

3. HDMI AUDIO

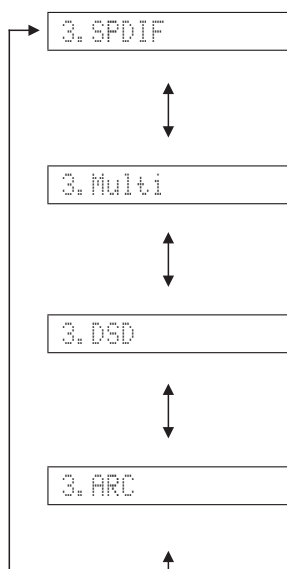
This menu is used to check the route of audio signal input to HDMI IN/OUT jacks.

- * Before the check, the following equipment must be connected to this unit with an HDMI cable.
- Audio equipment with DSD signal output function
 - TV that supports ARC

3. HDMI AUDIO

HDMI IN/OUT 端子へ入力された音声信号の経路をチェックします。

- ※ チェックの前に下記の機器と本機を HDMI ケーブルで接続する必要があります。
- DSD 信号出力機能を備えたオーディオ機器
 - ARC 対応の TV

**3-1. SPDIF**

The SPDIF signal input to selected HDMI IN jack is output.
選択された HDMI IN 端子へ入力された SPDIF 信号が出力されます。

3-2. Multi (DVD-Audio)

The DVD-Audio signal input to selected HDMI IN jack is output.
選択された HDMI IN 端子へ入力された DVD オーディオ信号が出力されます。

3-3. DSD (Direct Stream Digital)

The DSD signal input to selected HDMI IN jack is output.
選択された HDMI IN 端子へ入力された DSD 信号が出力されます。

3-4. ARC (Audio Return Channel function)

The audio signal input to HDMI OUT jack is output.
HDMI OUT 端子へ入力された音声信号が出力されます。

4. SPEAKERS SET

This menu is used to check the speaker output.

4.FRNT:SML 0dB

4-1. FRONT: SML 0dB

The FRONT L/R signal, when 90 Hz or lower, is mixed to the channel specified by LFE/BASS.
FRONT L/R 信号（90 Hz 以下）が、LFE/BASS で指定したチャンネルへミックスされます。

4.CENTER:NONE

4-2. CENTER: NONE

The CENTER signal is distributed to FRONT L/R channels.
CENTER 信号が、FRONT L/R チャンネルへ振り分けられます。

4.LFE/B:FRNT

4-3. LFE / BASS: FRONT

The LFE/BASS signal is distributed to FRONT L/R channels.
LFE/BASS 信号が、FRONT L/R チャンネルへ振り分けられます。

4.TONE:MAX

4-4. TONE: MAX

The audio signal is output with the tone control “BASS +6 dB”, “TREBLE +6 dB”.
音声信号が、トーンコントロール “BASS +6 dB”、“TREBLE +6 dB” で出力されます。

4.TONE:MIN

4-5. TONE: MIN

The audio signal is output with the tone control “BASS -6 dB”, “TREBLE -6 dB”.
音声信号が、トーンコントロール “BASS -6 dB”、“TREBLE -6 dB” で出力されます。

4.SPEAKER 6ohm

4-6. SPEAKER 6 ohms

Not for service.
サービスでは使用しません。

4. SPEAKERS SET

スピーカー出力をチェックします。

5. LIMITER CONTROL

Not for service.

5. LIMITER CONTROL

サービスでは使用しません。

5.AC_B:Hi 255255230000__

6. MIC CHECK
(U, C, R, K, A, B, G, F, L, S, H models)

6-1. MIC ROUTE CHECK

The audio signal input to the YPAO MIC jack is
output to FRONT L channel via A/D-D/A.

6. MIC CHECK

6-1. MIC ROUTE CHECK

YPAO マイク端子へ入力された音声信号が A/D
ー D/A 経由で FRONT L チャンネルへ出力され
ます。

6.MIC CHK ON

7. FL/MONITOR CHECK

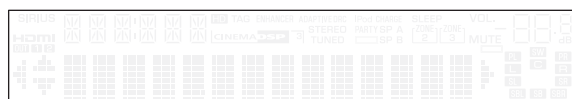
This menu is used to check operation of the FL display and video monitor output.

FL display / FL 表示

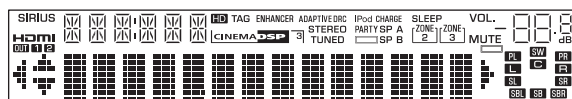
7-1. INITIAL DISPLAY / 初期表示



7-2. ALL SEGMENT OFF / 全セグメント消灯

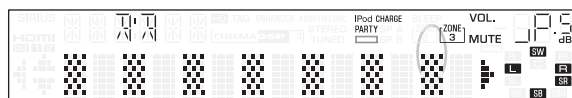


7-3. ALL SEGMENT ON / 全セグメント点灯

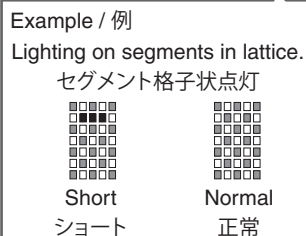
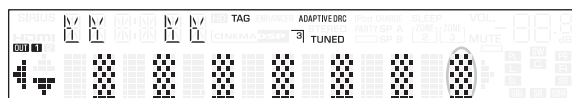


* After check, change to next menu at once.
確認後、すみやかに次のサブメニューを選択してください。

7-4. CHECK PATTERN 1 / チェックパターン 1



7-5. CHECK PATTERN 2 / チェックパターン 2



Segment conditions of the FL tube is checked by turning ON and OFF all segments.

Next, a short between segments next to each other is checked by turning ON and OFF all segments alternately (in lattice).

(In the above example, the segments in the second row from the top are shorted.)

7. FL/MONITOR CHECK

FL 表示とビデオモニター出力の動作をチェックします。

Video monitor output / ビデオモニター出力

MONITOR output ON
モニター出力オン

MONITOR (VIDEO) output mute
モニター出力ミュート

MONITOR (COMPONENT) output mute
コンポーネント出力ミュート

MONITOR output ON
モニター出力オン

MONITOR output ON
モニター出力オン

全セグメント消灯・全セグメント点灯により FL 管のセグメントの不良を確認します。

次に、全セグメントを交互（格子状）に点灯／消灯することで、隣り合うセグメントのショートをチェックします。

（上記の例は、上から 2 列目のセグメントがショートしています。）

8. MANUAL TEST

The test noise generated by built-in noise generator in DSP is output to the channels specified by the sub-menu.

| | |
|-----------------------------|--|
| | Test noise / テストノイズ |
| for LFE / LFE 用 | 30 Hz to 80 Hz
pink noise / ピンクノイズ |
| for other than LFE / LFE 以外 | 500 Hz to 2 kHz
pink noise / ピンクノイズ |

8-1. TEST ALL

The test noise is output to all channels.

8. TEST ALL

8. MANUAL TEST

DSP に内蔵されたノイズジェネレータによって生成されたテストノイズが、サブメニューで指定したチャンネルへ出力されます。

8-1. TEST ALL

テストノイズが全てのチャンネルへ出力されます。

9. A/D DATA CHECK

This menu is used to display the A/D conversion value of the microprocessor which detects panel keys and protection functions by using the sub-menu.

When "9-5. K1/K2" menu is selected, keys become inoperable due to detection of the values of all keys. However, it is possible to advance to the next menu by turning the "VOLUME" knob.

* Numeric values in the figure are given as reference only.

9-1. PS/DC

PS: Power supply voltage protection detection
The voltage at 126 pin (PS_PRT) of IC225 is displayed.

Voltage detects: ACL, AC2, $\pm 12A$, +7D, +5A, +5U, -VP

Normal value: 101 to 155
(Reference voltage: 3.3 V=255)

DC: Power amplifier DC (DC voltage) output is detected.
The voltage at 120 pin (DC_PRT) of IC225 is displayed.

Normal value: 27 to 88
(Reference voltage: 3.3 V=255)

* If PS or DC becomes out of the normal value range, the protection function works to turn off the power.

PS:124 DC:057

9. A/D DATA CHECK

パネルキー、プロテクションなどを検出しているマイコンの A/D 変換値を、サブメニューで表示します。

"9-5. K1/K2" メニューにすると、全キーの値を検出するためキー操作はできなくなりますが、VOLUME ツマミを回すことにより、次のメニューに進めることができます。

※ 図中の数値は参考例です。

9-1. PS/DC

PS: 電源電圧プロテクションの検出
IC225 の 126 ピン (PS_PRT) の電圧が表示されます。

検出電圧: ACL、AC2、 $\pm 12A$ 、+7D、+5A、+5U、-VP

正常値: 101 ~ 155
(基準電圧: 3.3 V=255)

DC: パワーアンプ DC (直流電圧) 出力の検出
IC225 の 120 ピン (DC_PRT) の電圧が表示されます。

正常値: 27 ~ 88
(基準電圧: 3.3 V=255)

※ PS または DC が正常値を外れるとプロテクションが働き、電源が切れます。

9-2. TH1/TH2 (U, C models)

Temperature of the heatsink is detected.

The voltage at 122 pin (TH1)/123 pin (TH2: U, C models) of microprocessor (IC225) is displayed.

Normal value: 42 to 255

(Reference voltage: 3.3 V=255)

- * If TH1/TH2 becomes out of the normal value range, the protection function works to turn off the power.

TH1:104 2:104

9-2. TH1/TH2 (U, C models)

ヒートシンク温度の検出

マイコン (IC225) の 122 ピン (TH1) の電圧が表示されます。

正常値: 42 ~ 255

(基準電圧: 3.3 V=255)

- ※ TH1 が正常値を外れるとプロテクションが働き、電源が切れます。

9-3. TH3

Temperature of the power supply voltage ($\pm B$, D19) is detected.

The voltage at 110 pin (TH3) of microprocessor (IC225) is displayed.

Normal value: 88 to 255

(Reference voltage: 3.3 V=255)

- * If TH3 becomes out of the normal value range, the protection function works to turn off the power.

TH3:221

9-3. TH3

電源電圧 ($\pm B$, D19) 温度の検出

マイコン (IC225) の 110 ピン (TH3) の電圧が表示されます。

正常値: 88 ~ 255

(基準電圧: 3.3 V=255)

- ※ TH3 が正常値を外れるとプロテクションが働き、電源が切れます。

9-4. AMP

Output level of speaker output is detected.

The voltage at 121 pin (AMP_OLV) of microprocessor (IC225) is displayed.

(Reference voltage: 3.3 V=255)

AMP:255

9-4. AMP

スピーカー出力の出力レベルの検出

マイコン (IC225) の 121 ピン (AMP_OLV) の電圧が表示されます。

(基準電圧: 3.3 V=255)

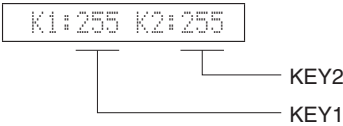
9-5. KEY1/KEY2

Panel key is detected.
When the A/D conversion value of the panel key becomes out of the specified range, normal operation will not be available.
In that case, check the constant of voltage dividing resistor, solder condition, etc. Refer to table.
* When “9-5. KEY1/KEY2” menu is selected, keys become inoperable due to detection of the values of all keys. However, it is possible to advance to the next menu by turning the “VOLUME” knob.

(Reference voltage: 3.3 V=255)

9-5. KEY1/KEY2

パネルキーの検出
パネルキーの A/D 値が規定範囲から外れると、正常な動きをしません。
下表をご覧になり、各キーの分圧抵抗の定数、ハンダ不良等の確認をしてください。
※ “9-5. KEY1/KEY2” メニューにすると、全キーの値を検出するためキー操作はできなくなりますが、“VOLUME” つまみを回すことにより、次のメニューに進めることができます。
(基準電圧：3.3 V=255)



| Display | K1 |
|-----------|-----------|
| 0 – 11 | STRAIGHT |
| 12 – 37 | TUNING >> |
| 38 – 64 | TUNING << |
| 65 – 88 | AM |
| 79 – 113 | FM |
| 114 – 139 | PRESET > |
| 140 – 164 | PRESET < |
| 165 – 186 | MEMORY |
| 187 – 226 | INFO |
| 255 | KEY OFF |

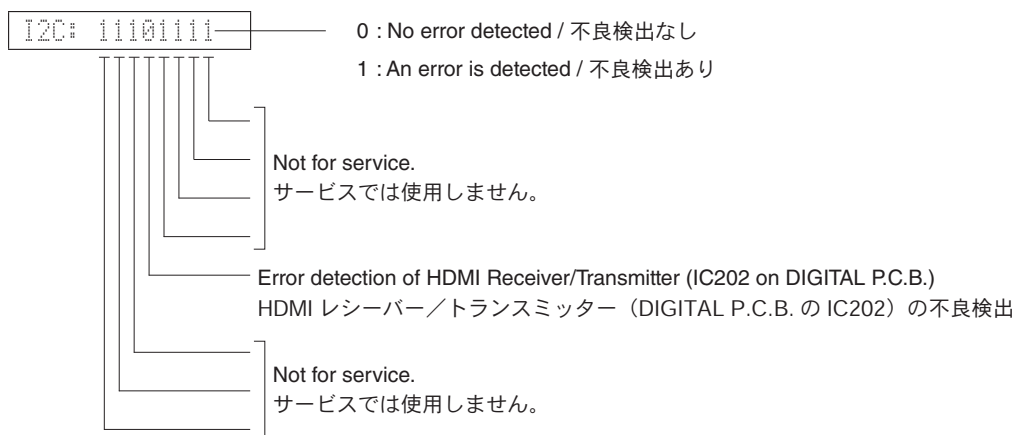
| Display | K2 |
|-----------|-----------------|
| 0 – 11 | RADIO (SCENE4) |
| 12 – 32 | CD (SCENE3) |
| 33 – 54 | TV (SCENE2) |
| 55 – 75 | BD/DVD (SCENE1) |
| 76 – 96 | PROGRAM > |
| 97 – 119 | PROGRAM < |
| 120 – 142 | INPUT > |
| 143 – 163 | INPUT < |
| 164 – 181 | – |
| 182 – 197 | ⏻ (Power) |
| 198 – 229 | TONE CONTROL |
| 255 | KEY OFF |

10. VIDEO CHECK

This menu is used to check the analog video signal route.

10-1. I2C

The I2C (Inter integrated circuit) bus line connection is checked.

**10-2. DIGITAL COMPONENT**

Not for service.

DIGITAL COMP

10-3. DIGITAL CVBS

Not for service.

DIGITAL CVBS

10-4. DIGITAL Y/C

Not for service.

DIGITAL Y/C

10. VIDEO CHECK

アナログ映像信号の経路をチェックします。

10-1. I2C

I2C (Inter integrated circuit) バスライン接続をチェックします。

10-2. DIGITAL COMPONENT

サービスでは使用しません。

10-3. DIGITAL CVBS

サービスでは使用しません。

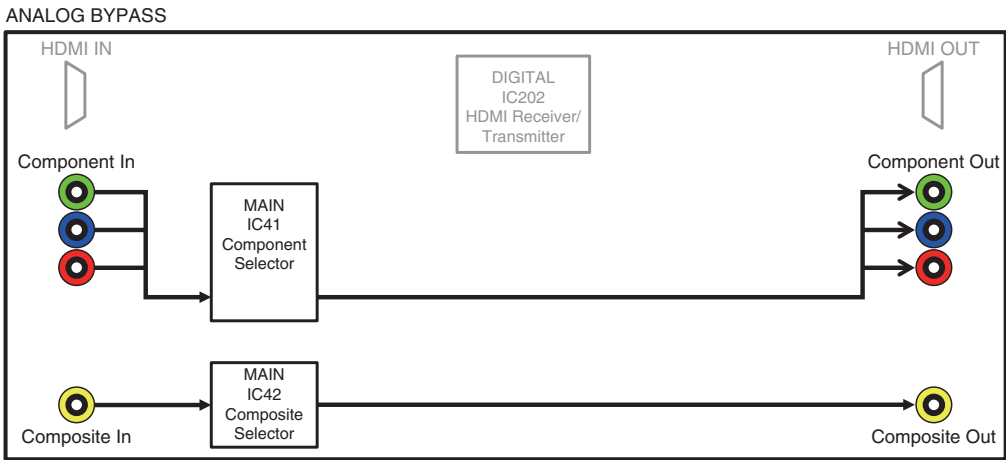
10-4. DIGITAL Y/C

サービスでは使用しません。

10-5. ANALOG BYPASS

The video signal is converted and output as shown below.

ANALOG BYPASS



10-5. ANALOG BYPASS

映像信号が以下のように変換され、出力されます。

11. NO MENU

11. NO MENU

11.Invalidity

12. NO MENU

12. NO MENU

12.Invalidity

13. NO MENU

13. NO MENU

13.Invalidity

14. NO MENU

14. NO MENU

14.Invalidity

RX-V373/HTR-3065

15. HDMI INFORMATION

This menu is used to display information about HDMI.

15-1. HDMI MODEL NAME

The model name of this unit written to HDMI module is displayed.

RX-V373
HTR-3065

MN:RX-V373

15-2. HDMI PRODUCT ID

The product ID of this unit written to HDMI module is displayed.

RX-V373 : 3170
HTR-3065 : 3173

PI: 3170

15. HDMI INFORMATION

HDMI に関する情報が表示されます。

15-1. HDMI MODEL NAME

HDMI モジュールに書き込まれている本機のモデル名が表示されます。

RX-V373

15-2. HDMI PRODUCT ID

HDMI モジュールに書き込まれている本機のプロダクト ID が表示されます。

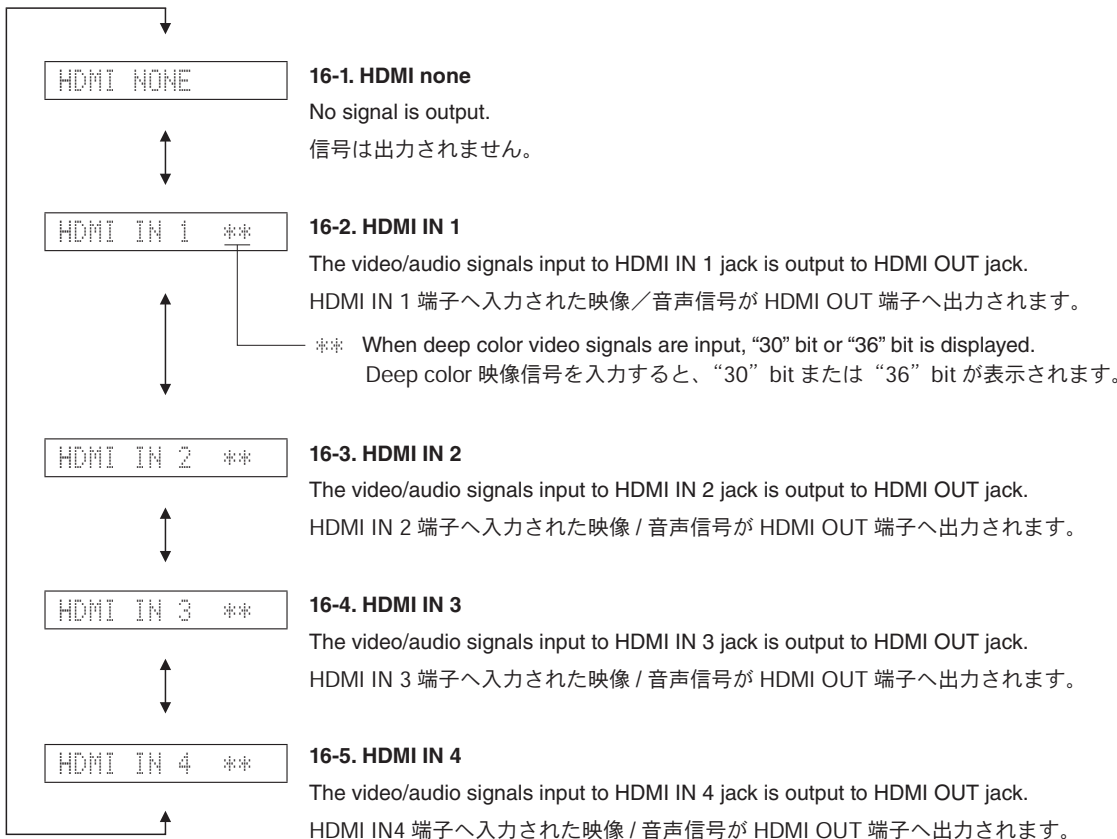
RX-V373 : 3170

16. HDMI SELECT

This menu is used to check the route of video/audio signals input to HDMI IN jacks.

16. HDMI SELECT

HDMI IN 端子へ入力された映像／音声信号の経路をチェックします。



17. USB (U, C, R, K, A, B, G, F, L, S, H models)

This menu is used to check audio signal route from USB storage device.

17-1. USB FILE 1

The 1st music file stored in the USB storage device connected to the USB jack is reproduced.

- * Copy 2 or more music files from PC to the root folder of the USB storage device in advance.

USB file 1

17-2. USB FILE 2

The 2nd music file stored in the USB storage device connected to the USB jack is reproduced.

USB file 2

17-3. USB INITIAL PROGRAM LOAD

Communication and bus line connection between microprocessor (IC221) and USB host controller (IC282) are checked.

USB IPL:OK

17. USB

USB フラッシュメモリーからの音声信号の経路をチェックします。

17-1. USB FILE 1

USB 端子に接続された USB フラッシュメモリーに保存された音楽ファイルの 1 曲目が再生されます。

- ※ あらかじめPCからUSBフラッシュメモリーのルートフォルダに音楽ファイルを2曲以上コピーしてください。

17-2. USB FILE 2

USB 端子に接続された USB フラッシュメモリーに保存された音楽ファイルの 2 曲目が再生されます。

17-3. USB INITIAL PROGRAM LOAD

マイコン(IC221)とUSBホストコントローラー(IC282)間の通信とバスライン接続をチェックします。

- OK: No error detected / 不良検出なし
- NG: An error is detected / 不良検出あり

17-4. USB iPod CHECK

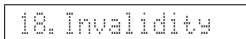
This menu is used to check audio signal route from the iPod.
Connect an iPod itself to the USB jack of this unit with the USB cable supplied with the iPod.

USB iPod:OK

17-4. USB iPod CHECK

iPod からの音声信号の経路をチェックします。
iPod に付属の USB ケーブルで、本機の USB 端子に iPod 本体を接続します。

- OK: Connected / 接続
- NG: No traffic / 通信不能
- : Checking / チェック中

18. NO MENU**18. NO MENU**

 18. Invalidity
19. BUS CHECK

This menu is used to check the communication and bus line connection between devices on DIGITAL P.C.B.

19. BUS CHECK

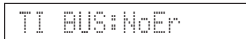
DIGITAL P.C.B. 上の各デバイス間の通信とバスライン接続をチェックします。

19-1. TI (DSP) BUS check

Communication and bus line connection between microprocessor (IC225) and TI (IC241) are checked.

19-1. TI (DSP) BUS check

マイコン (IC225) と TI (DSP、IC241) 間の通信とバスライン接続をチェックします。


 TI BUS:NoEr

NoEr: No error detected / 不良検出なし

Boot: When "Boot" is displayed for a few seconds or "Boot" and "NoEr" are displayed alternately, there is a possibility that an error had occurred.

"Boot" が数秒間表示されるまたは "Boot" と "NoEr" が交互に表示される場合、異常が発生している可能性があります。

19-2. EEPROM BUS check

Communication and bus line connection between microprocessor (IC221) and EEPROM (IC222) are checked.

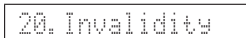
19-2. EEPROM BUS check

マイコン (IC225) と EEPROM (IC221) 間の通信とバスライン接続をチェックします。


 EEPROM BUS:OK

OK: No error detected / 不良検出なし

NG: An error is detected / 不良検出あり

20. NO MENU**20. NO MENU**

 20. Invalidity

21. PROTECTION HISTORY

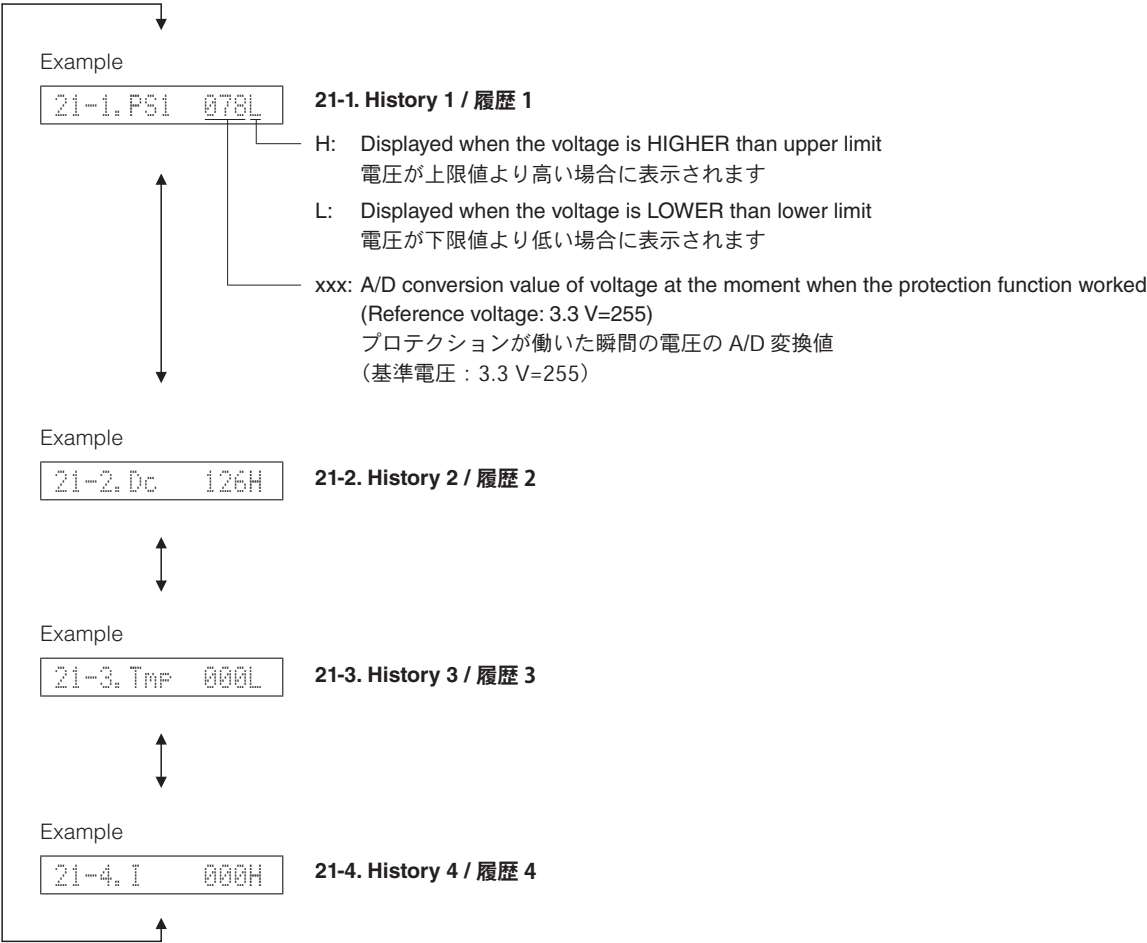
This menu is used to display the history of protection function.

All history of protection function will be erased by pressing the “STRAIGHT” key.

* Numeric values in the figure are given as reference only.

21. PROTECTION HISTORY

プロテクション履歴が表示されます。
“STRAIGHT” キーを押すとプロテクション履歴はすべて消去されます。
※ 図中の数値は参考例です。



RX-V373/HTR-3065

22. SOFT SWITCH

This menu is used to write the model name and destination to the back-up IC (EEPROM: IC221 on DIGITAL P.C.B.).

When the following parts are replaced, the model name and destination MUST be written by using this menu to have proper operation.

DIGITAL P.C.B.

EEPROM: IC221 on DIGITAL P.C.B.

To write the model name and destination, first switch to the write mode by using the "22-1. SWITCH MODE" menu and then select the desired model name by using "22-2. MODEL NAME" menu and the desired destination by using the "22-3. DESTINATION" menu.

22-1. SWITCH MODE

Pressing the "STRAIGHT" key will change the display alternately as shown below. When "22. SW: MODEL" is displayed, this unit is in the write mode.



Note: After writing of the model name and destination are completed, be sure to change to "22 SW: PCB".

22-1. SWITCH MODE

"STRAIGHT" キーを押すと表示が下記のように交互に切り替わります。"22. SW: MODEL" が表示されているときに本機は書き込みモードになっています。

注意: モデル名と仕向け先の書き込みを完了した後、必ず "22. SW: PCB" に切り替えてください。

22-2. MODEL NAME

Select the desired model name by pressing the "STRAIGHT" key. Then the selected model name is written automatically.



22-2. MODEL NAME

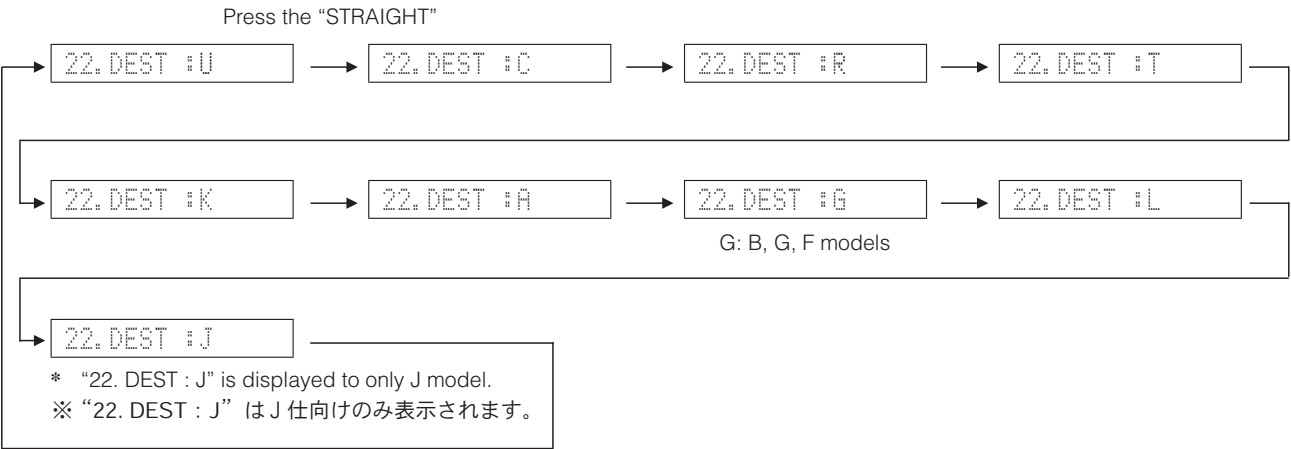
"STRAIGHT" キーを押して目的のモデル名を選択します。選択されたモデル名が自動的に書き込まれます。

22-3. DESTINATION

Press the “STRAIGHT” key repeatedly to select desired destination. Then the selected destination is written automatically.

22-3. DESTINATION

“STRAIGHT” キーを繰り返し押して目的の仕向け先を選択します。選択された仕向け先が自動的に書き込まれます。



23. UPDATE TI

Not for service.

23. UPDATE TI

サービスでは使用しません。

23.UPDATE TI

24. FACTORY PRESET

This menu is used to reserve/inhibit initialization of the back-up IC (EEPROM: IC221 on DIGITAL P.C.B.).

24. FACTORY PRESET

バックアップ IC（EEPROM：DIGITAL P.C.B. の IC221）の初期化を予約／禁止します。

PRESET INHI



PRESET RSRV

24-1. PRESET INHIBIT (Initialization inhibited) / PRESET INHIBIT（初期化禁止）

Initialization of the back-up IC is not executed. Select this sub-menu to protect the values set by the user.
バックアップ IC の初期化は行われません。ユーザーの設定値を保護するときは、こちらを選択してください。

24-1. PRESET RESERVED (Initialization reserved) / PRESET RESERVED（初期化予約）

Initialization of the back-up IC is reserved. (Actual initialization is executed when the power is turned on next.)
To reset to the original factory settings or to reset the backup IC, select this sub-menu and press the “⏻” (Power) key to turn off the power.

バックアップ IC の初期化が予約されます。（実際に初期化されるのは、次の電源投入時です。）工場出荷時やバックアップ IC をリセットしたいときは、こちらを選択してから “⏻”（電源）キーを押して電源を切ってください。

CAUTION: Before setting to the PRESET RESERVED, write down the existing preset memory content of the tuner. (This is because setting to the PRESET RESERVED will cause the user memory content to be erased.)

注意： PRESET RESERVED を選んで初期化をする前に、チューナーのユーザーメモリーの内容を書き写してください。（初期化をすると、チューナーのユーザーメモリーの内容は消えてしまいます。）

25. FIRMWARE VERSION/CHECKSUM

The firmware version and checksum values are displayed.

The checksum is obtained by adding the data at every 8-bit and expressing the result as a 4-digit hexadecimal notation.

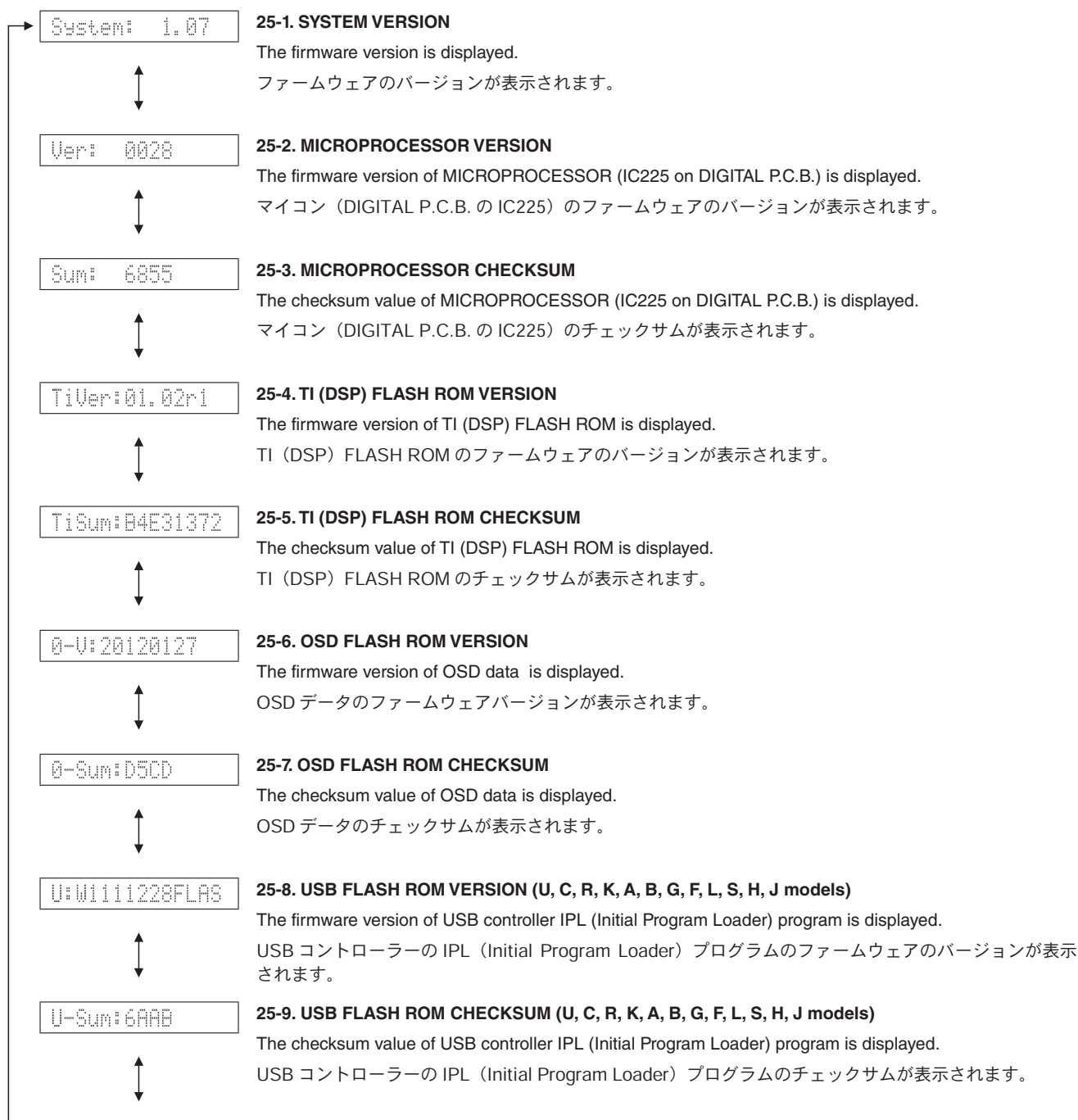
* Numeric values in the figure are given as reference only.

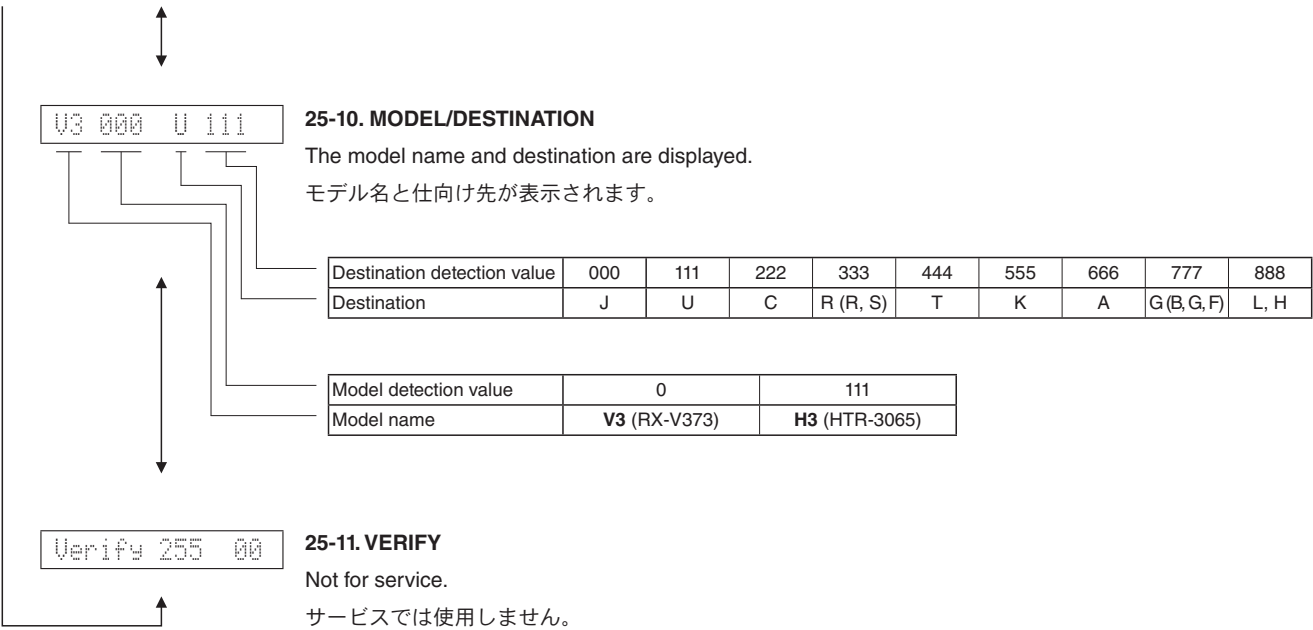
25. FIRMWARE VERSION/CHECKSUM

ファームウェアのバージョン、チェックサムが表示されます。

チェックサムは、データを8ビットごとに加算していき、4桁の16進数で表記したものです。

※ 図中の数値は参考例です。



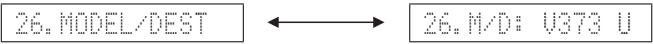


26. MODEL/DESTINATION

Not for service.

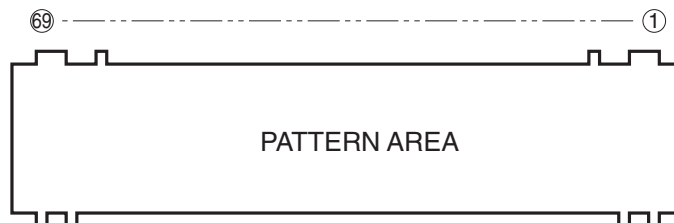
26. MODEL/DESTINATION

サービスでは使用しません。



DISPLAY DATA

● V1001 : 18-MT-11GNK (OPERATION P.C.B.)



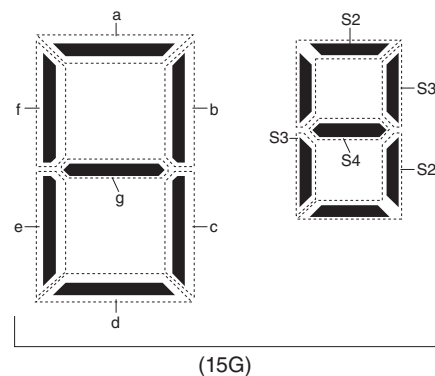
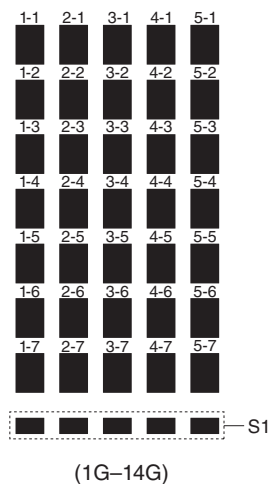
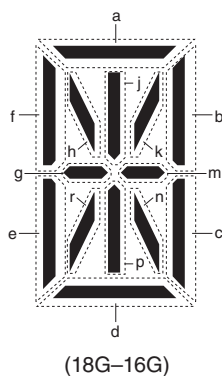
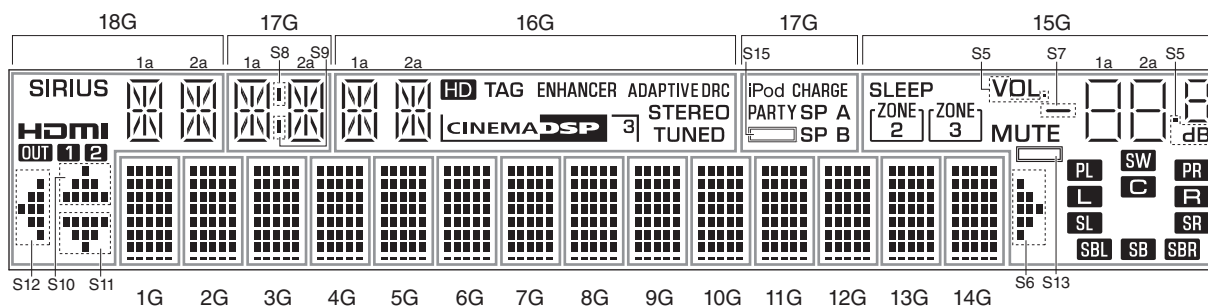
● PIN CONNECTION

| | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Pin No. | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 | 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 |
| Connection | F2 | NX | NP | NP | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 | P15 | P16 | P17 | P18 | P19 | P20 | P21 | P22 | P23 | P24 | P25 | P26 | P27 | P28 | P29 | P30 | P31 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Pin No. | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Connection | P32 | P33 | P34 | P35 | P36 | NX | NX | NX | NX | NX | NX | NX | 18G | 17G | 16G | 15G | 14G | 13G | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | NP | NP | NX | F1 |

Note : 1) F1, F2 Filament pin 2) NP No pin 3) NX No extend pin 4) 1G-18G Grid pin

● GRID ASSIGNMENT



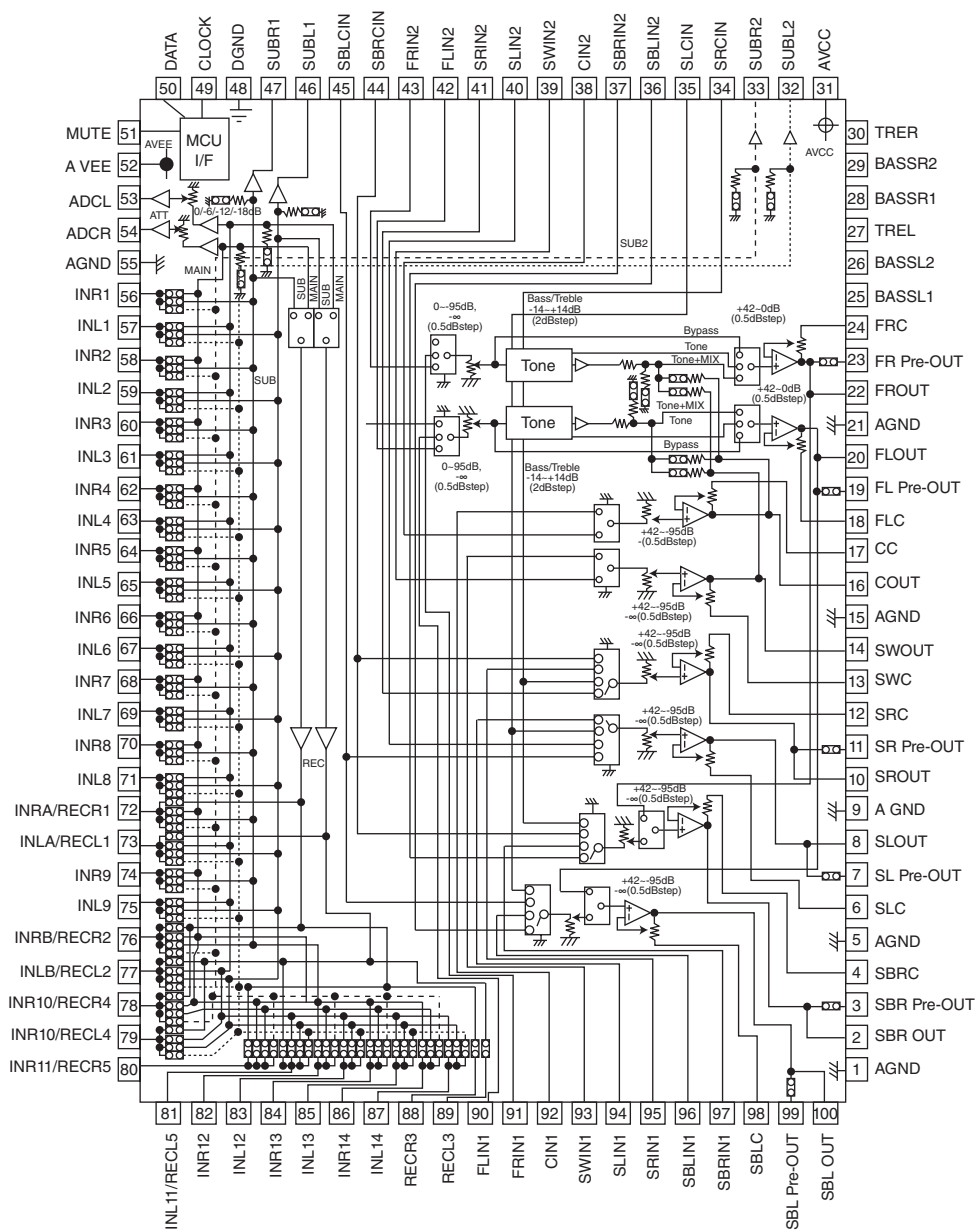
● ANODE CONNECTION

| | 18G | 17G | 16G | 15G | 1G-14G |
|-----|---------------|-------------|-------------------|---------------|--------|
| P1 | 1a | 1a | 1a | S5 | 1-1 |
| P2 | 1h | 1h | 1h | S7 | 2-1 |
| P3 | 1j | 1j | 1j | 1d | 3-1 |
| P4 | 1k | 1k | 1k | 2d | 4-1 |
| P5 | 1b | 1b | 1b | S2 | 5-1 |
| P6 | 1f | 1f | 1f | 1e | 1-2 |
| P7 | 1m | 1m | 1m | 2e | 2-2 |
| P8 | 1g | 1g | 1g | S3 | 3-2 |
| P9 | 1c | 1c | 1c | 1c | 4-2 |
| P10 | 1e | 1e | 1e | 2c | 5-2 |
| P11 | 1r | 1r | 1r | S4 | 1-3 |
| P12 | 1p | 1p | 1p | 1g | 2-3 |
| P13 | 1n | 1n | 1n | 2g | 3-3 |
| P14 | 1d | 1d | 1d | 1f | 4-3 |
| P15 | 2a | 2a | 2a | 2f | 5-3 |
| P16 | 2h | 2h | 2h | 1b | 1-4 |
| P17 | 2j | 2j | 2j | 2b | 2-4 |
| P18 | 2k | 2k | 2k | 1a | 3-4 |
| P19 | 2b | 2b | 2b | 2a | 4-4 |
| P20 | 2f | 2f | 2f | PL | 5-4 |
| P21 | 2m | 2m | 2m | SW | 1-5 |
| P22 | 2g | 2g | 2g | PR | 2-5 |
| P23 | 2c | 2c | 2c | L | 3-5 |
| P24 | 2e | 2e | 2e | C | 4-5 |
| P25 | 2r | 2r | 2r | R | 5-5 |
| P26 | 2p | 2p | 2p | SL | 1-6 |
| P27 | 2n | 2n | 2n | SR | 2-6 |
| P28 | 2d | 2d | 2d | SBL | 3-6 |
| P29 | SIRIUS | S8 | HD | SB | 4-6 |
| P30 | OUT | S9 | TAG | SBR | 5-6 |
| P31 | HDMI | iPod CHARGE | CINEMA DSP | S6 | 1-7 |
| P32 | 1 | SP B | 3 | S13 | 2-7 |
| P33 | 2 | S15 | STEREO | MUTE | 3-7 |
| P34 | S12 | SP A | TUNED | ZONE 2 | 4-7 |
| P35 | S10 | PARTY | ENHANCER | ZONE 3 | 5-7 |
| P36 | S11 | — | ADAPTIVE DRC | SLEEP | S1 |

■ IC DATA

IC21: R2A15220FP (MAIN P.C.B.)

8-channel electronic volume with 11 input selector and tone control



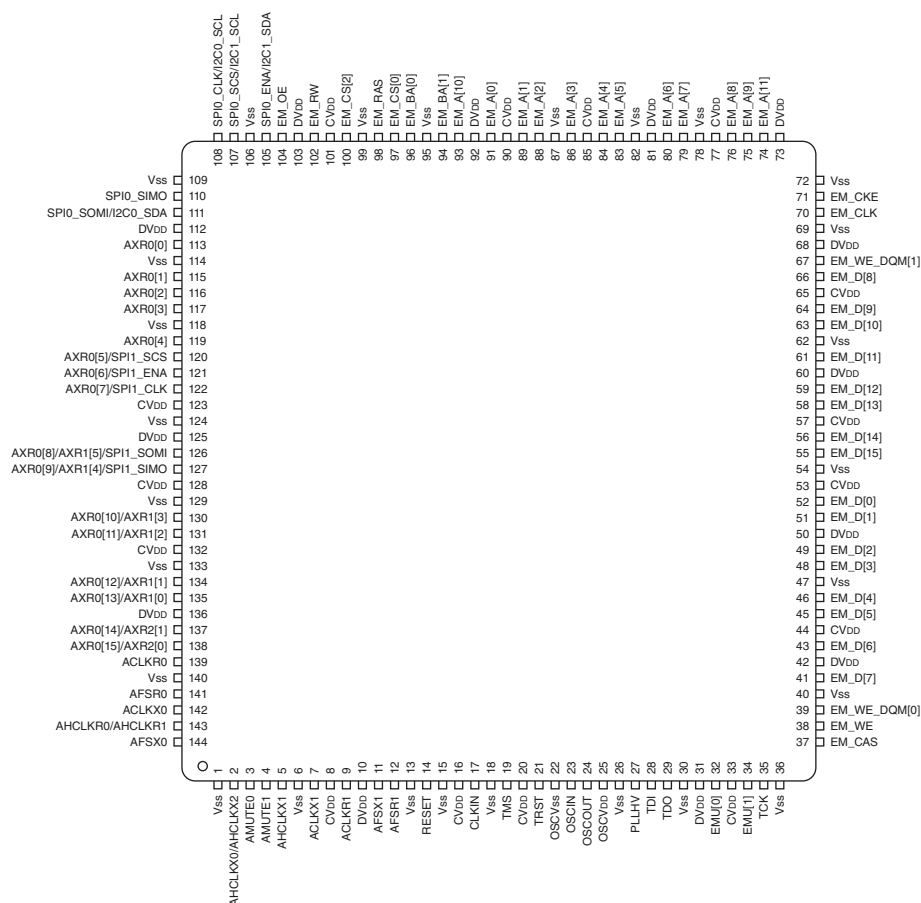
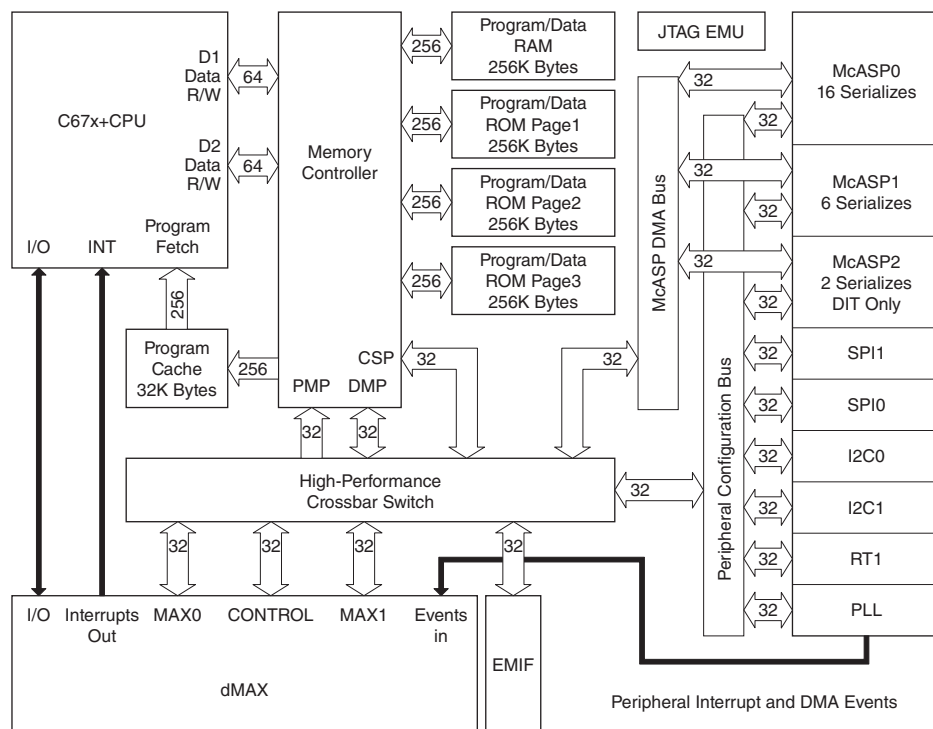
| Pin No. | Port Name | Function Name | Detail of Function |
|---------|-------------|---------------|--|
| 1 | AGND | AE | Analog ground of internal circuit |
| 2 | SBROUT | VOSBL | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 3 | SBR Pre-OUT | VOPSB | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 4 | SBRC | AE | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 5 | AGND | AE | Analog ground of internal circuit |
| 6 | SLC | VOPSR | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 7 | SL Pre-OUT | VOSR | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 8 | SLOUT | AE | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 9 | AGND | AE | Analog ground of internal circuit |
| 10 | SROUT | VOSL | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 11 | SR Pre-OUT | VOPSL | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 12 | SRC | AE | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 13 | SWC | AE | |
| 14 | SWOUT | VOSW | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 15 | AGND | AE | Analog ground of internal circuit |
| 16 | COUT | VOC | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 17 | CC | AE | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 18 | FLC | AE | |
| 19 | FL Pre-OUT | VOPFR | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 20 | FLOUT | VOFR | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 21 | AGND | POE | Analog ground of internal circuit |
| 22 | FROUT | VOFL | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |
| 23 | FR Pre-OUT | VOPFL | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 24 | FRC | AE | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 25 | BASSL1 | AE | Frequency characteristic setting pin of L/R channel tone control (Bass) |
| 26 | BASSL2 | AE | |
| 27 | TREL | AE | Frequency characteristic setting pin of L/R channel tone control (Treble) |
| 28 | BASSR1 | AE | Frequency characteristic setting pin of L/R channel tone control (Bass) |
| 29 | BASSR2 | AE | |
| 30 | TRER | AE | Frequency characteristic setting pin of L/R channel tone control (Treble) |
| 31 | AVCC | VCC | Positive power supply to internal circuit |
| 32 | SUBL1 | N.C. | Output pin for L/R channel SUB1/SUB2 output |
| 33 | SUBL2 | N.C. | |
| 34 | SRCIN | N.C. | 3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL |
| 35 | SLCIN | N.C. | |
| 36 | SBLIN2 | 8SBR | Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2) |
| 37 | SBRIN2 | 8SBL | |
| 38 | CIN2 | 8C | |
| 39 | SWIN2 | 8SW | |
| 40 | SLIN2 | 8SR | |
| 41 | SRIN2 | 8SL | |
| 42 | FLIN2 | 8FR | |
| 43 | FRIN2 | 8FL | |
| 44 | SBRCIN | Z2L | 3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL |
| 45 | SBLCIN | Z2R | |
| 46 | SUBL1 | Z2R | Output pin for L/R channel SUB1/SUB2 output |
| 47 | SUBR1 | Z2L | |
| 48 | DGND | MG | Digital ground of internal circuit |
| 49 | DATA | VOL_SCK | Input pin of control data |
| 50 | CLOCK | VOL_MOSI | Input pin of control clock |

| Pin No. | Port Name | Function Name | Detail of Function |
|---------|-------------|---------------|--|
| 51 | MUTE | AE | Outside mute control pin |
| 52 | AVEE | — | Negative power supply to internal circuit |
| 53 | ADCL | ADR | Output pin for L/R channel ADC |
| 54 | ADCR | ADL | |
| 55 | AGND | AE | Analog ground of internal circuit |
| 56 | INR1 | AU2L | Input pin of L/R channel (Input selector) |
| 57 | INL1 | AU2R | |
| 58 | INR2 | AU1L | |
| 59 | INL2 | AU1R | |
| 60 | INR3 | AV-6L | |
| 61 | INL3 | AV-6R | |
| 62 | INR4 | AV-5L | |
| 63 | INL4 | AV-5R | |
| 64 | INR5 | PHL | |
| 65 | INL5 | PHR | |
| 66 | INR6 | SRL | |
| 67 | INL6 | SRR | |
| 68 | INR7 | IPL | |
| 69 | INL7 | IPR | |
| 70 | INR8 | XML | |
| 71 | INL8 | XMR | |
| 72 | INRA/RECR1 | AV-OUT_L | Output pin for L/R channel (input selector)/Output pin for L/R channel REC output |
| 73 | INLA/RECL1 | AV-OUT_R | |
| 74 | INR9 | USBL | Input pin of L/R channel (Input selector) |
| 75 | INL9 | USBR | |
| 76 | INRB/RECR2 | AOL | Output pin for L/R channel (input selector)/Output pin for L/R channel REC output |
| 77 | INLB/RECL2 | AOR | |
| 78 | INR10/RECR4 | TUL | |
| 79 | INL10/RECL4 | TUR | |
| 80 | INR11/RECR5 | MIC | |
| 81 | INL11/RECL5 | AE | |
| 82 | INR12 | AUXL | Input pin of L/R channel (Input selector) |
| 83 | INL12 | AUXR | |
| 84 | INR13 | AE | |
| 85 | INL13 | AE | |
| 86 | INR14 | AE | |
| 87 | INL14 | AE | |
| 88 | RECR3 | N.C. | Output pin for L/R channel REC output |
| 89 | RECL3 | N.C. | |
| 90 | FLIN1 | DAFR | Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2) |
| 91 | FRIN1 | DAFL | |
| 92 | CIN1 | DAC | |
| 93 | SWIN1 | DASW | |
| 94 | SLIN1 | DASR | |
| 95 | SEIN1 | DASL | |
| 96 | SBLIN1 | DASBR | |
| 97 | SBRIN1 | DASBL | |
| 98 | SBLC | AE | Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 99 | SBL Pre-OUT | VOPSBR | Pre-output pin of FL/FR/SL/SR/SBL/SBR channel |
| 100 | SBL OUT | VOSBR | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel |

IC241: D70YE101BRFP266 (DIGITAL P.C.B.)

Decoder/Post processor

* No replacement part available. / サービス部品供給なし



| No. | Function Name
(P.C.B.) | I/O | Detail of Function |
|-----|---------------------------|-----|---|
| 1 | VSS | | |
| 2 | AHCLKX0/AHCLKX2 | IO | McASP0 and McASP2 transmit master clock |
| 3 | AMUTE0 | IO | McASP0 mute output |
| 4 | AMUTE1 | IO | McASP1 mute output |
| 5 | AHCLKX1 | IO | McASP1 transmit master clock |
| 6 | VSS | | |
| 7 | ACLKX1 | IO | McASP1 transmit bit clock |
| 8 | CVDD | | |
| 9 | ACLKR1 | IO | McASP1 receive bit clock |
| 10 | DVDD | | |
| 11 | AFSX1 | IO | McASP1 transmit frame Sync (L/R clock) |
| 12 | AFSR1 | IO | McASP1 receive frame Sync (L/R clock) |
| 13 | VSS | | |
| 14 | RESET | IO | Device reset pin |
| 15 | VSS | | |
| 16 | CVDD | | |
| 17 | CLKIN | IO | Alternate clock input (3.3-V LVCMOS input) |
| 18 | VSS | | |
| 19 | TMS | IO | Test mode select |
| 20 | CVDD | | |
| 21 | TRST | IO | Test reset |
| 22 | OSCVSS | PWR | Oscillator Vss tap point (for filter only) |
| 23 | OSCIN | IO | 1.2-V oscillator input |
| 24 | NC | O | |
| 25 | OSCVDD | PWR | Oscillator 1.2-V Vpp tap point (for filter only) |
| 26 | VSS | | |
| 27 | PLLHV | PWR | PLL 3.3-V supply input (requires external filter) |
| 28 | TDI | IO | Test data in |
| 29 | TDO | OZ | Test data out |
| 30 | VSS | | |
| 31 | DVDD | | |
| 32 | EMU[0] | IO | Emulation pin 0 |
| 33 | CVDD | | |
| 34 | EMU[1] | IO | Emulation pin 1 |
| 35 | TCK | IO | Test clock |
| 36 | Ground(Vss) | | |
| 37 | EM_CAS | O | SDRAM column address strobe |
| 38 | EM_WE | O | SDRAM write enable |
| 39 | EM_WE_DQM[0] | O | Write enable or byte enable for EM_D [7:0] |
| 40 | VSS | | |
| 41 | EM_D[7] | IO | EMIF data bus [lower 16-bits] |
| 42 | DVDD | | |
| 43 | EM_D[6] | IO | EMIF data bus [lower 16-bits] |
| 44 | CVDD | | |
| 45 | EM_D[5] | IO | EMIF data bus [lower 16-bits] |
| 46 | EM_D[4] | IO | EMIF data bus [lower 16-bits] |
| 47 | VSS | | |
| 48 | EM_D[3] | IO | EMIF data bus [lower 16-bits] |
| 49 | EM_D[2] | IO | EMIF data bus [lower 16-bits] |
| 50 | DVDD | | |

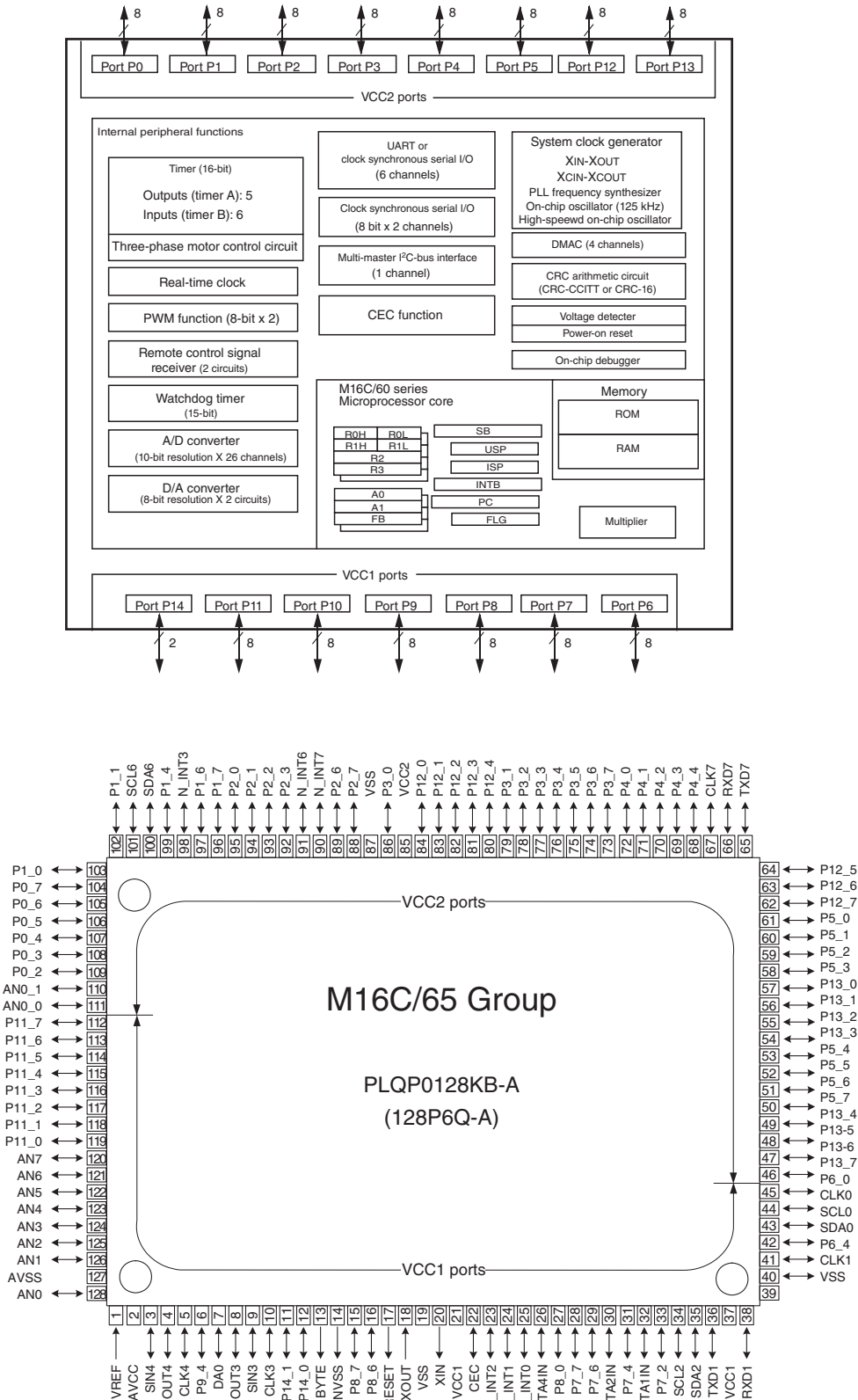
| No. | Function Name
(P.C.B.) | I/O | Detail of Function |
|-----|---------------------------|-----|--|
| 51 | EM_D[1] | IO | EMIF data bus [lower 16-bits] |
| 52 | EM_D[0] | IO | EMIF data bus [lower 16-bits] |
| 53 | CVDD | | |
| 54 | VSS | | |
| 55 | EM_D[15] | IO | EMIF data bus [lower 16-bits] |
| 56 | EM_D[14] | IO | EMIF data bus [lower 16-Bits] |
| 57 | CVDD | | |
| 58 | EM_D[13] | IO | EMIF data bus [lower 16-Bits] |
| 59 | EM_D[12] | IO | EMIF data bus [lower 16-Bits] |
| 60 | DVDD | | |
| 61 | EM_D[11] | IO | EMIF data bus [lower 16-Bits] |
| 62 | VSS | | |
| 63 | EM_D[10] | IO | EMIF data bus [lower 16-Bits] |
| 64 | EM_D[9] | IO | EMIF data bus [lower 16-Bits] |
| 65 | CVDD | | |
| 66 | EM_D[8] | IO | EMIF data bus [lower 16-bits] |
| 67 | EM_WE_DQM[1] | O | Write enable or byte enable for EM_D [15:8] |
| 68 | DVDD | | |
| 69 | VSS | | |
| 70 | EM_CLK | O | SDRAM clock |
| 71 | EM_CKE | O | SDRAM clock enable |
| 72 | VSS | | |
| 73 | DVDD | | |
| 74 | EM_A[11] | O | EMIF address bus |
| 75 | EM_A[9] | O | EMIF address bus |
| 76 | EM_A[8] | O | EMIF address bus |
| 77 | CVDD | | |
| 78 | VSS | | |
| 79 | EM_A[7] | O | EMIF address bus |
| 80 | EM_A[6] | O | EMIF address bus |
| 81 | DVDD | | |
| 82 | VSS | | |
| 83 | EM_A[5] | O | EMIF address bus |
| 84 | EM_A[4] | O | EMIF address bus |
| 85 | CVDD | | |
| 86 | EM_A[3] | O | EMIF address bus |
| 87 | VSS | | |
| 88 | EM_A[2] | O | EMIF address bus |
| 89 | EM_A[1] | O | EMIF address bus |
| 90 | CVDD | | |
| 91 | EM_A[0] | O | EMIF address bus |
| 92 | DVDD | | |
| 93 | EM_A[10] | O | EMIF address bus |
| 94 | EM_BA[1] | O | SDRAM bank address and asynchronous memory Low-Order address |
| 95 | VSS | | |
| 96 | EM_BA[0] | O | SDRAM bank address and asynchronous memory Low-Order address |
| 97 | EM_CS[0] | O | SDRAM chip select |
| 98 | EM_RAS | O | SDRAM row address strobe |
| 99 | VSS | | |
| 100 | EM_CS[2] | O | Asynchronous memory chip select |

| No. | Function Name
(P.C.B.) | I/O | Detail of Function |
|-----|---------------------------|-----|---|
| 101 | CVDD | | |
| 102 | NC | O | Asynchronous memory read/not write |
| 103 | DVDD | | |
| 104 | EM_OE | O | SDRAM output enable |
| 105 | SPI0_ENA/I2C1_SDA | IO | SPI0 enable (ready) or I2c1 serial data |
| 106 | VSS | | |
| 107 | SPI0_ENA/I2C1_SCL | IO | SPI0 enable (ready) or I2c1 serial clock |
| 108 | SPI0_CLK/I2C0_SCL | IO | SPI0 serial clock or I2c0 serial clock |
| 109 | VSS | | |
| 110 | SPI0_SIMO | IO | SPI0 data pin slave in master out |
| 111 | SPI0_SOMI/I2C0_SDA | IO | SPI0 data pin slave out master in or I2C0 serial data |
| 112 | DVDD | | |
| 113 | AXR0[0] | IO | McASP0 serial data 0 |
| 114 | VSS | | |
| 115 | AXR0[1] | IO | McASP0 serial data 1 |
| 116 | AXR0[2] | IO | McASP0 serial data 2 |
| 117 | AXR0[3] | IO | McASP0 serial data 3 |
| 118 | VSS | | |
| 119 | AXR0[4] | IO | McASP0 serial data 4 |
| 120 | SPI1_SCS | IO | McASP0 serial data 5 or SPI1 slave chip select |
| 121 | SPI1_ENA | IO | McASP0 serial data 6 or SPI1 enable (ready) |
| 122 | SPI1_CLK | IO | McASP0 serial data 7 or SPI1 serial clock |
| 123 | CVDD | | |
| 124 | VSS | | |
| 125 | DVDD | | |
| 126 | /SPI1_SOMI | IO | McASP0 serial data 8 or McASP1 serial data 5 or SPI1 data pin slave out master in |
| 127 | /SPI1_SIMO | IO | McASP0 serial data 9 or McASP1 serial data 4 or SPI1 data pin slave in master out |
| 128 | CVDD | | |
| 129 | VSS | | |
| 130 | AXR0[10] | IO | McASP0 serial data 10 or McASP1 serial data 3 |
| 131 | AXR0[11] | IO | McASP0 serial data 11 or McASP1 serial data 2 |
| 132 | CVDD | | |
| 133 | VSS | | |
| 134 | AXR0[12] | IO | McASP0 serial data 12 or McASP1 serial data 1 |
| 135 | AXR0[13] | IO | McASP0 serial data 13 or McASP1 serial data 0 |
| 136 | DVDD | | |
| 137 | AXR0[14] | IO | McASP0 serial data 14 or McASP2 serial data 1 |
| 138 | AXR0[15] | IO | McASP0 serial data 15 or McASP2 serial data 0 |
| 139 | ACLKR0 | IO | McASP0 receive bit clock |
| 140 | VSS | | |
| 141 | AFSR0 | IO | McASP0 receive frame Sync (L/R clock) |
| 142 | ACLKX0 | IO | McASP0 transmit bit clock |
| 143 | AHCLKR0/AHCLKR1 | IO | McASP0 and McASP1 receive master clock |
| 144 | AFSX0 | IO | McASP0 transmit frame Sync (L/R clock) |

IC225: R5F3651TNFC (DIGITAL P.C.B.)
Microprocessor

* No replacement part available. / サービス部品供給なし

RX-V373/HTR-3065



| Pin No. | Port Name | Function Name (P.C.B.) | I/O | | Detail of Function |
|---------|-----------|------------------------|----------|---------|---|
| | | | POWER ON | STANDBY | |
| 1 | VREF | VREF | MCU | MCU | AD standard voltage |
| 2 | AVCC | AVCC | MCU | MCU | Microprocessor power supply |
| 3 | SIN4 | E2R_MISO | SI | O | EEPROM synchronization data input |
| 4 | SOUT4 | FLD_MOSI | SO | O | FL driver / EEPROM synchronization data output |
| 5 | CLK4 | FLD_SCK | SO | O | FL driver / EEPROM synchronous clock output |
| 6 | P9_4 | OSDFS_N_RST | O | O | OSD Flash reset |
| 7 | DA0 | AMP_LMT | DA | O | Limiter control output |
| 8 | SOUT3 | DSP_MOSI | SO | O | DSP, DIR, DAC synchronization data output |
| 9 | SIN3 | DSP_MISO | SI | I- | DSP, DIR, DAC synchronization data input |
| 10 | CLK3 | DSP_SCK | SO | O | DSP, DIR, DAC synchronous clock output |
| 11 | P14_1 | HDM_N_RST | O | O | HDMI RxTx reset |
| 12 | P14_0 | TUN_N_RST | O | O | Tuner reset |
| 13 | BYTE | BYTE | MCU | MCU | Data bus width reshuffling input |
| 14 | CNVSS | E8A_CNVSS | MCU | MCU | Processor mode select / Low: Single chip mode |
| 15 | P8_7 | (no_use) | O | O | |
| 16 | P8_6 | DIAG_FCT | O | O | Diag OK: Output High / Diag NG: Output Low (default) |
| 17 | /RESET | CPU_N_RST | MCU | MCU | Reset input |
| 18 | XOUT | XOUT | MCU | MCU | Oscillation circuit output |
| 19 | VSS | DGND | MCU | MCU | Microprocessor ground |
| 20 | XIN | XIN | MCU | MCU | Oscillation circuit input |
| 21 | VCC1 | +3.3M | MCU | MCU | Microprocessor power supply |
| 22 | CEC | HDM_CEC | IO | I+ | Microprocessor CEC control |
| 23 | N_INT2 | DSP_N_INT | IRQ | IRQ | Interrupt input from DSP |
| 24 | N_INT1 | HDM_MUT | IRQ | I- | HDMI MUTE input |
| 25 | N_INT0 | HDM_INT | IRQ | I- | Interrupt input from HDMI RxTx |
| 26 | TA4IN | DIR_N_INT | TMR | O | DIR interrupt input |
| 27 | P8_0 | (reserve) | | | |
| 28 | P7_7 | DIR_N_RST | O | O | DIR reset |
| 29 | P7_6 | DIR_N_CS | O | O | DIR chip select |
| 30 | TA2IN | TUN_N_INT | TMR | O | Tuner GPIO2 input |
| 31 | P7_4 | (reserve) | O | O | NET SPI request |
| 32 | TA1IN | N_PDET | TMR | I+ | AC power detection / L: Power down |
| 33 | P7_2 | (reserve) | O | O | NET SPI ready |
| 34 | SCL2 | HDM_SCL | SO | O | HDMI Rx/Tx I2C SCL output |
| 35 | SDA2 | HDM_SDA | SI | O | HDMI Rx/Tx I2C SDA input and output |
| 36 | TXD1 | E8A_TXD | SO | I+ | |
| 37 | VCC1 | +3.3M | MCU | MCU | Microprocessor power supply |
| 38 | RXD1 | E8A_RXD | SI | I+ | |
| 39 | VSS | DGND | MCU | MCU | Microprocessor ground |
| 40 | CLK1 | E8A_SCLK | O | I+ | |
| 41 | P6_4 | E8A_BUSY | I- | I- | |
| 42 | SDA0 | TUN_SDA | SI | O | Tuner I2C synchronization data input and output |
| 43 | SCL0 | TUN_SCL | SO | O | Tuner I2C synchronous clock output |
| 44 | P6_1 | (no_use) | O | O | |
| 45 | P6_0 | (no_use) | O | O | |
| 46 | P13_7 | R2A_MOSI | O | O | Electronic volume flip-flop synchronization data output |
| 47 | P13_6 | R2A_SCK | O | O | Electronic volume flip-flop synchronous clock output |
| 48 | P13_5 | I_PRT | I- | I- | Overcurrent protection detection |
| 49 | P13_4 | TRANS_RY | O | O | |
| 50 | P5_7 | (no_use) | O | O | |

| Pin No. | Port Name | Function Name (P.C.B.) | I/O | | Detail of Function |
|---------|-----------|------------------------|----------|---------|--|
| | | | POWER ON | STANDBY | |
| 51 | P5_6 | SW_N_MT | O | O | Mute control (Subwoofer) |
| 52 | P5_5 | E8A_N_EPM | I- | I- | |
| 53 | P5_4 | HP_N_DET | I+ | O | Headphone detection / L: Headphone detected |
| 54 | P13_3 | HPRY | O | O | Headphone relay control |
| 55 | P13_2 | SPRY_S | O | O | Speaker relay control (Surround) / H: Relay on |
| 56 | P13_1 | SPRY_C | O | O | Speaker relay control (Center) / H: Relay on |
| 57 | P13_0 | SPRY_F | O | O | Speaker relay control (Front) / H: Relay on |
| 58 | P5_3 | S_N_MT | O | O | Mute control (Surround) |
| 59 | P5_2 | C_N_MT | O | O | Mute control (Center) |
| 60 | P5_1 | F_N_MT | O | O | Mute control (Front) |
| 61 | P5_0 | E8A_N_CE | I+ | I+ | |
| 62 | P12_7 | OSDFS_N_CS | O | O | Chip select control of OSD Flash from microprocessor |
| 63 | P12_6 | (no_use) | O | O | |
| 64 | P12_5 | PWR_RY | O | O | Power relay control |
| 65 | TXD7 | APL_MOSI | SO | O | Apple certification, USB, expansion Flash, OSD Flash synchronization data output |
| 66 | RXD7 | APL_MISO | SI | O | Apple certification, USB, expansion Flash, OSD Flash synchronization data input |
| 67 | CLK7 | APL_CLK | SO | O | Apple certification, USB, expansion Flash, OSD Flash synchronous clock output |
| 68 | P4_4 | APL_N_CS | O | O | Apple certification chip • chip select |
| 69 | P4_3 | USB_N_CS | O | O | USB device chip select |
| 70 | P4_2 | FLSH_N_CS | O | O | Expansion FlashROM chip select |
| 71 | P4_1 | N_FCT | I | I | FCT detection / H: Product mode, L: FCT mode |
| 72 | P4_0 | J_N_DEST | I | I | J model detection / L: J model, H: Other than J model |
| 73 | P3_7 | OSDFS_BUS_SEL | O | O | |
| 74 | P3_6 | VOL_RB | I+ | I+ | Volume rotary encoder B |
| 75 | P3_5 | VOL_RA | I+ | I+ | Volume rotary encoder A |
| 76 | P3_4 | FLD_N_CS | O | O | FL driver chip select |
| 77 | P3_3 | FLD_N_RST | O | O | FL driver reset |
| 78 | P3_2 | MIC_N_DET | I- | I- | MIC detection / L: MIC detected |
| 79 | P3_1 | (reserve) | O | O | Standby through LED spare / H: LED lighting |
| 80 | P12_4 | (reserve) | O | O | |
| 81 | P12_3 | (no_use) | O | O | |
| 82 | P12_2 | (reserve) | O | O | |
| 83 | P12_1 | 5D_PON | O | | H: Power supply ON |
| 84 | P12_0 | 3D_PON | O | | H: Power supply ON |
| 85 | VCC2 | VCC2 | MCU | MCU | Microprocessor power supply |
| 86 | P3_0 | E2R_N_CS | O | O | EEPROM chip select |
| 87 | VSS | VSS | MCU | MCU | Microprocessor ground |
| 88 | P2_7 | USB_IPLERR | I+ | I+ | USB IPL error status detection |
| 89 | P2_6 | USB_BUSY | I+ | I | Condition output from USB device |
| 90 | N_INT7 | REM_IN | IRQ | IRQ | Remote control pulse input |
| 91 | N_INT6 | PSW_N_DET | IRQ | IRQ | Power system switch (Power, Scene) detection |
| 92 | P2_3 | DSP_N_RST | O | O | DSP reset |
| 93 | P2_2 | DSP_N_RDY | I+ | O | DSP Ready input |
| 94 | P2_1 | DSP_N_CS | O | O | DSP chip select |
| 95 | P2_0 | DSP_FMT | O | O | DSP full mute output / H: Mute |
| 96 | P1_7 | USB_SEARCH | I- | I- | Condition output from USB device |
| 97 | P1_6 | USB_IRPTO | I- | I- | Condition output from USB device |

| Pin No. | Port Name | Function Name (P.C.B.) | I/O | | Detail of Function |
|---------|-----------|------------------------|----------|---------|---|
| | | | POWER ON | STANDBY | |
| 98 | N_INT3 | USB_MCHNG | IRQ | | USB file reproduction end flag input |
| 99 | P1_4 | USB_N_RST | O | O | USB device reset |
| 100 | SDA6 | USB_SDA | SI | O | USB I2C synchronization data input and output |
| 101 | SCL6 | USB_SCL | SO | I+ | USB I2C synchronous clock output |
| 102 | P1_1 | (reserve) | O | O | |
| 103 | P1_0 | (reserve) | O | O | |
| 104 | P0_7 | DAC_N_CS | O | O | DAC chip select |
| 105 | P0_6 | APL_N_RST | O | O | Apple certification chip reset |
| 106 | AN0_5 | (reserve) | AD | | AD spare |
| 107 | AN0_4 | (reserve) | AD | | AD spare |
| 108 | AN0_3 | (reserve) | AD | | AD spare |
| 109 | AN0_2 | (reserve) | AD | | AD spare |
| 110 | AN0_1 | THM3 | AD | I | Temperature detection 3 |
| 111 | AN0_0 | DEST_FCT | AD | | AD spare |
| 112 | P11_7 | (no_use) | O | O | |
| 113 | P11_6 | DIR_SDO | I | O | DIR_SDO input for CDDA writing |
| 114 | P11_5 | DIR_WCK | I | O | DIR_WCK input for CDDA writing |
| 115 | P11_4 | CPNT_N_PS | O | O | Component video selector IC power save |
| 116 | P11_3 | VO_N_MT | O | O | Composite video selector mute |
| 117 | P11_2 | VSEL3 | O | O | Video input select |
| 118 | P11_1 | VSEL2 | O | O | Video input select |
| 119 | P11_0 | VSEL1 | O | O | Video input select |
| 120 | AN7 | DC_PRT | AD | I | Power amp DC detection |
| 121 | AN6 | AMP_OLV | AD | I | Power amp output level detection |
| 122 | AN5 | THM1 | AD | I | Temperature detection 1 |
| 123 | AN4 | THM2 | AD | I | Temperature detection 2 |
| 124 | AN3 | KEY2 | AD | I | KEY AD value uptake 2 |
| 125 | AN2 | KEY1 | AD | I | KEY AD value uptake 1 |
| 126 | AN1 | PS_PRT | AD | I | PS protection detection |
| 127 | AVSS | AVSS | MCU | MCU | Microprocessor ground |
| 128 | P10_0 | (no_use) | O | O | AD spare |

Key detection for A/D port
Key input (A/D) pull-up resistance 10 k-ohms

| | 0 Ω | + 1.0 kΩ | + 1.5 kΩ | + 1.8 kΩ | + 2.2 kΩ | + 3.3 kΩ | + 4.7 kΩ | + 8.2 kΩ | + 10 kΩ |
|-----------------------------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Detected voltage value at 125 pin | 0 – 0.15 V | 0.15 – 0.48 V | 0.49 – 0.82 V | 0.83 – 1.14 V | 1.15 – 1.46 V | 1.47 – 1.79 V | 1.80 – 2.12 V | 2.13 – 2.40 V | 2.41 – 2.91 V |
| A/D value (3.3 V=255) | 0 – 11 | 12 – 37 | 38 – 64 | 65 – 88 | 89 – 113 | 114 – 139 | 140 – 164 | 165 – 186 | 187 – 226 |
| Key name (KEY1: 125 pin) | STRAIGHT | TUNING >> | TUNING << | AM | FM | PRESET > | PRESET < | MEMORY | INFO |

| | 0 Ω | + 1.0 kΩ | + 1.0 kΩ | + 1.5 kΩ | + 1.5 kΩ | + 2.2 kΩ | + 3.3 kΩ | + 4.7 kΩ | (22 kΩ + 33 kΩ) | + 22 kΩ | + 33 kΩ |
|-----------------------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Detected voltage value at 124 pin | 0 – 0.15 V | 0.15 – 0.42 V | 0.43 – 0.70 V | 0.71 – 0.97 V | 0.98 – 1.24 V | 1.25 – 1.53 V | 1.54 – 1.84 V | 1.84 – 2.10 V | 2.11 – 2.33 V | 2.34 – 2.54 V | 2.55 – 2.97 V |
| A/D value (3.3 V=255) | 0 – 11 | 12 – 32 | 33 – 54 | 55 – 75 | 76 – 96 | 97 – 119 | 120 – 142 | 143 – 163 | 164 – 181 | 182 – 197 | 198 – 229 |
| Key name (KEY2: 124 pin) | SCENE RADIO | SCENE CD | SCENE TV | SCENE BD/DVD | PROGRAM > | PROGRAM < | INPUT > | INPUT < | – | ⏻ (Power) | TONE CONTROL |

BLOCK DIAGRAMS

DIGITAL

• See page 83–87 →
SCHEMATIC DIAGRAM

MAIN

• See page 90–92 →
SCHEMATIC DIAGRAM

OPERATION

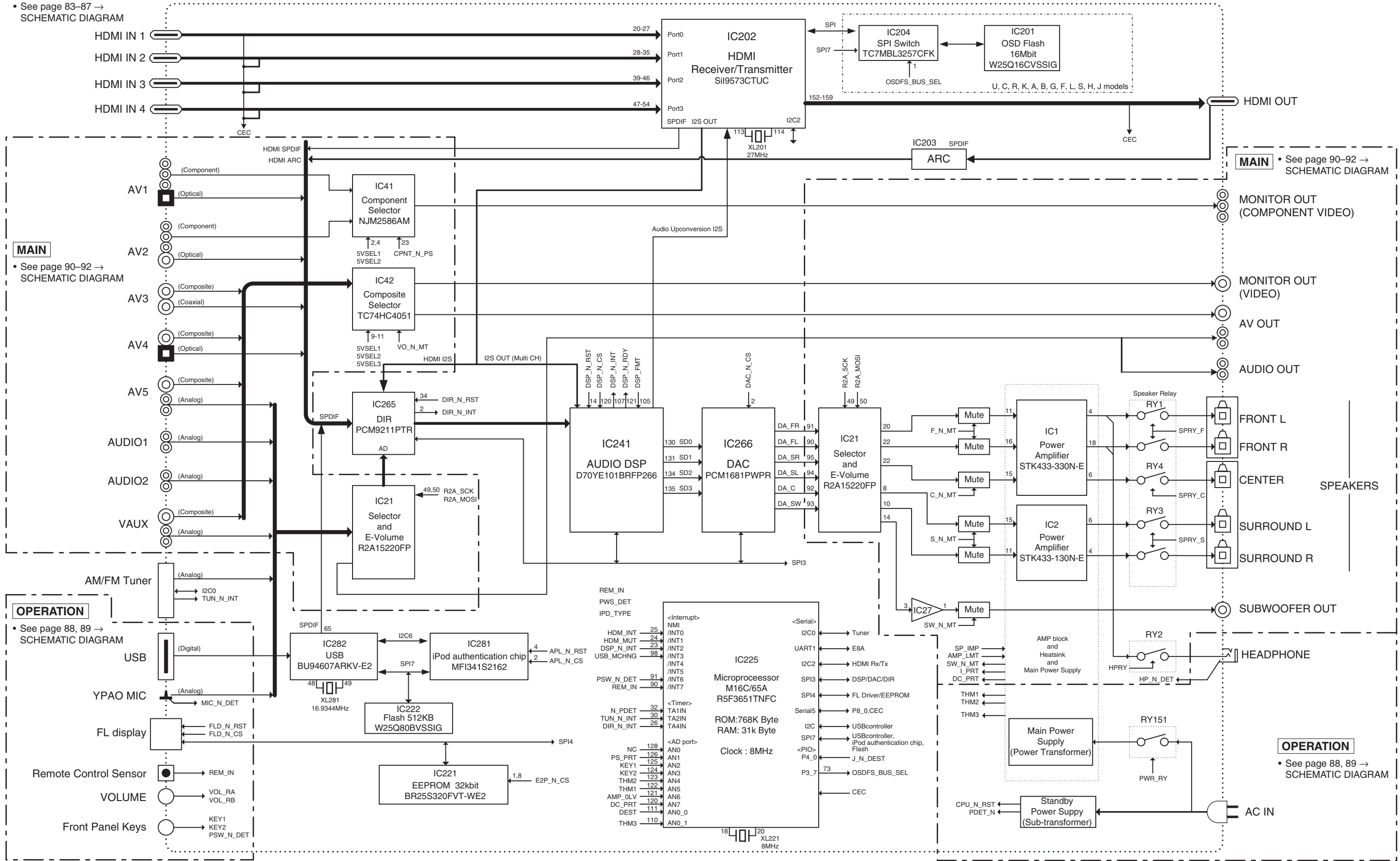
• See page 88, 89 →
SCHEMATIC DIAGRAM

MAIN

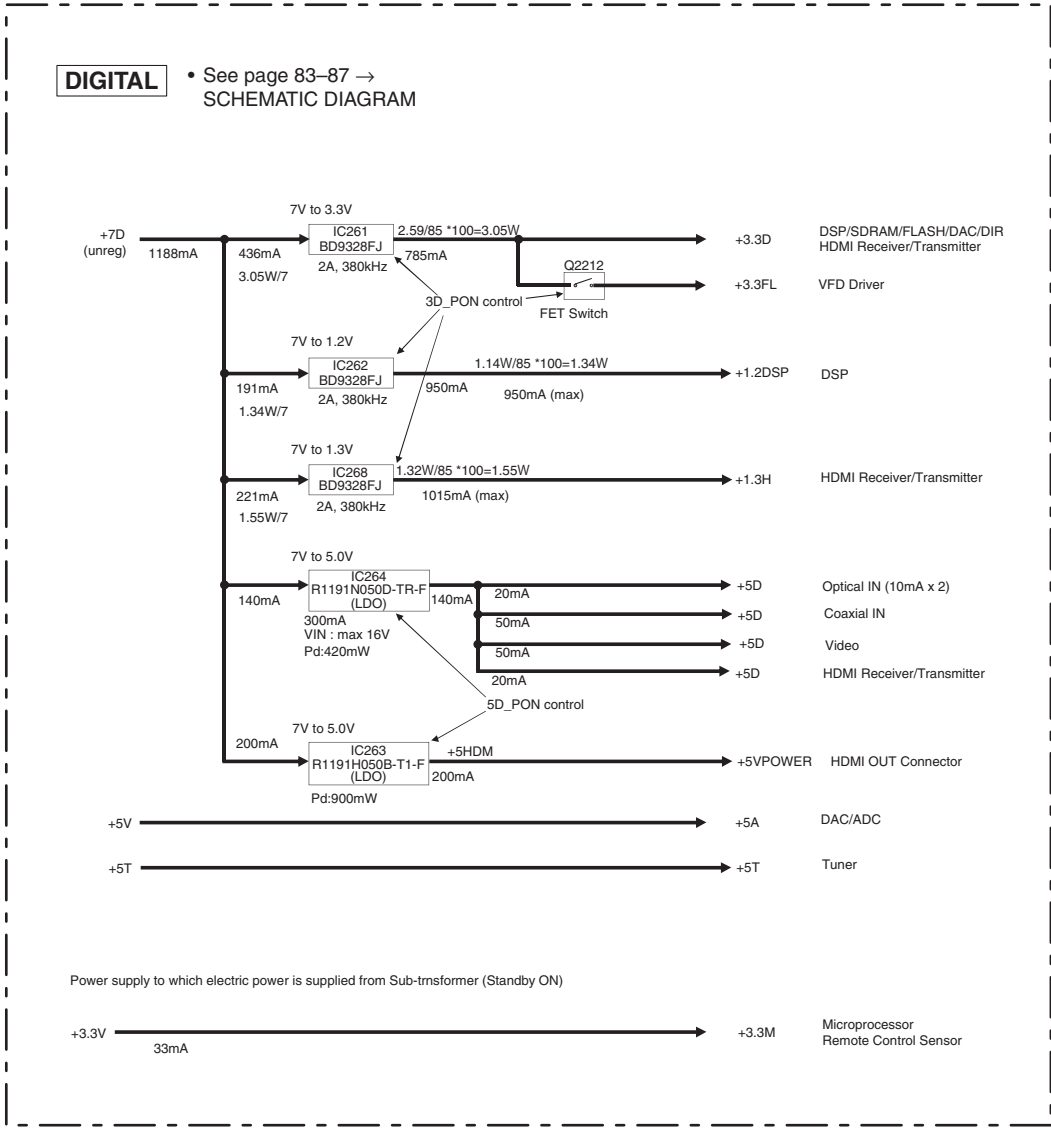
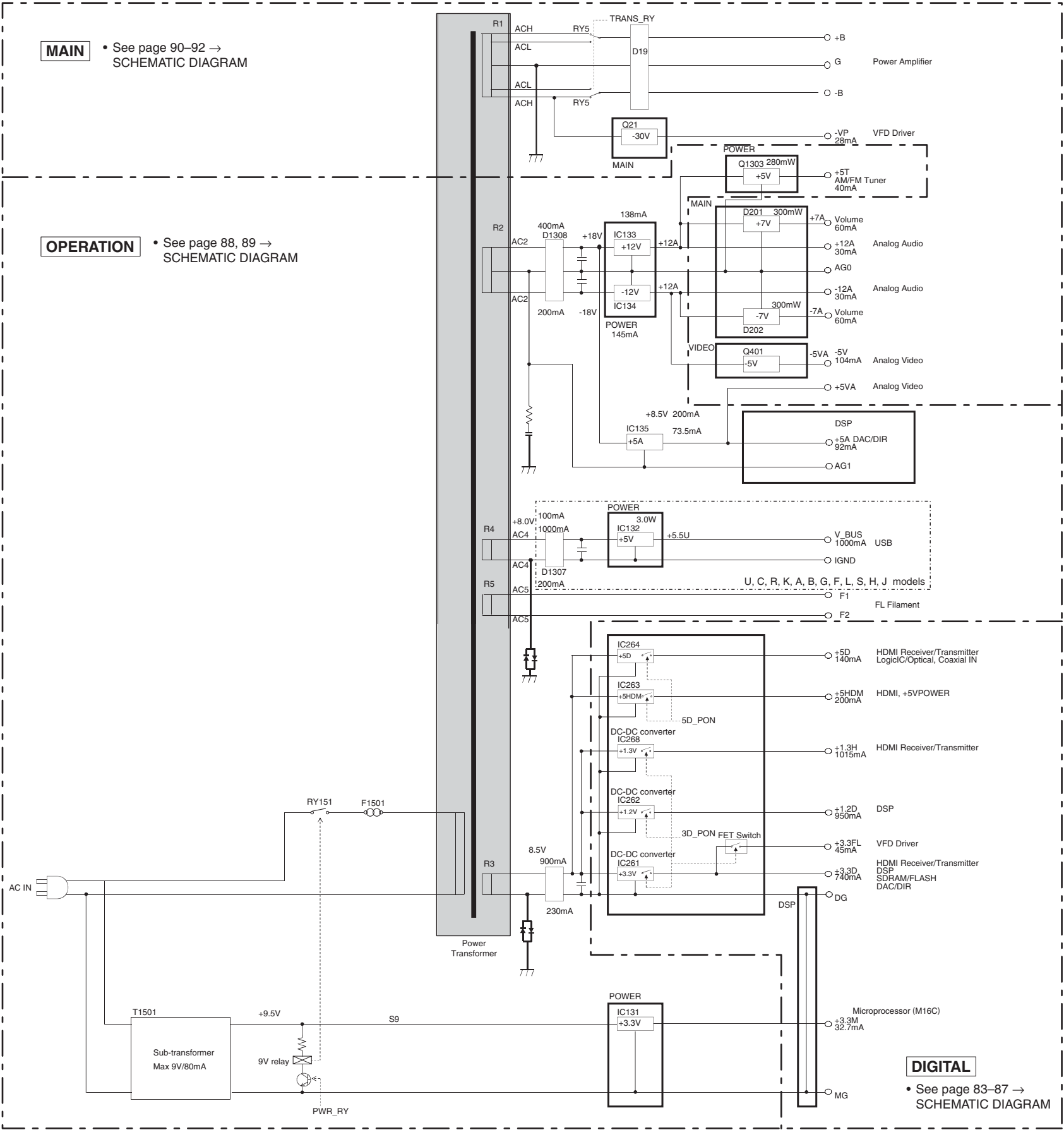
• See page 90–92 →
SCHEMATIC DIAGRAM

OPERATION

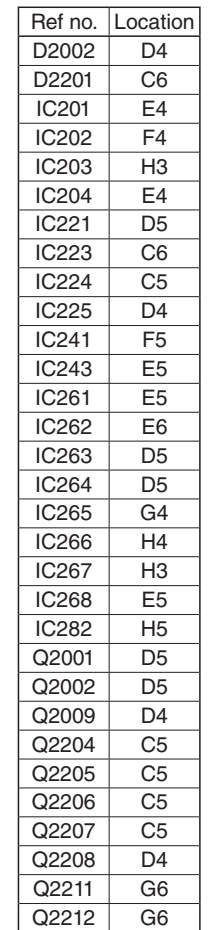
• See page 88, 89 →
SCHEMATIC DIAGRAM



Power Supply Section Block Diagram

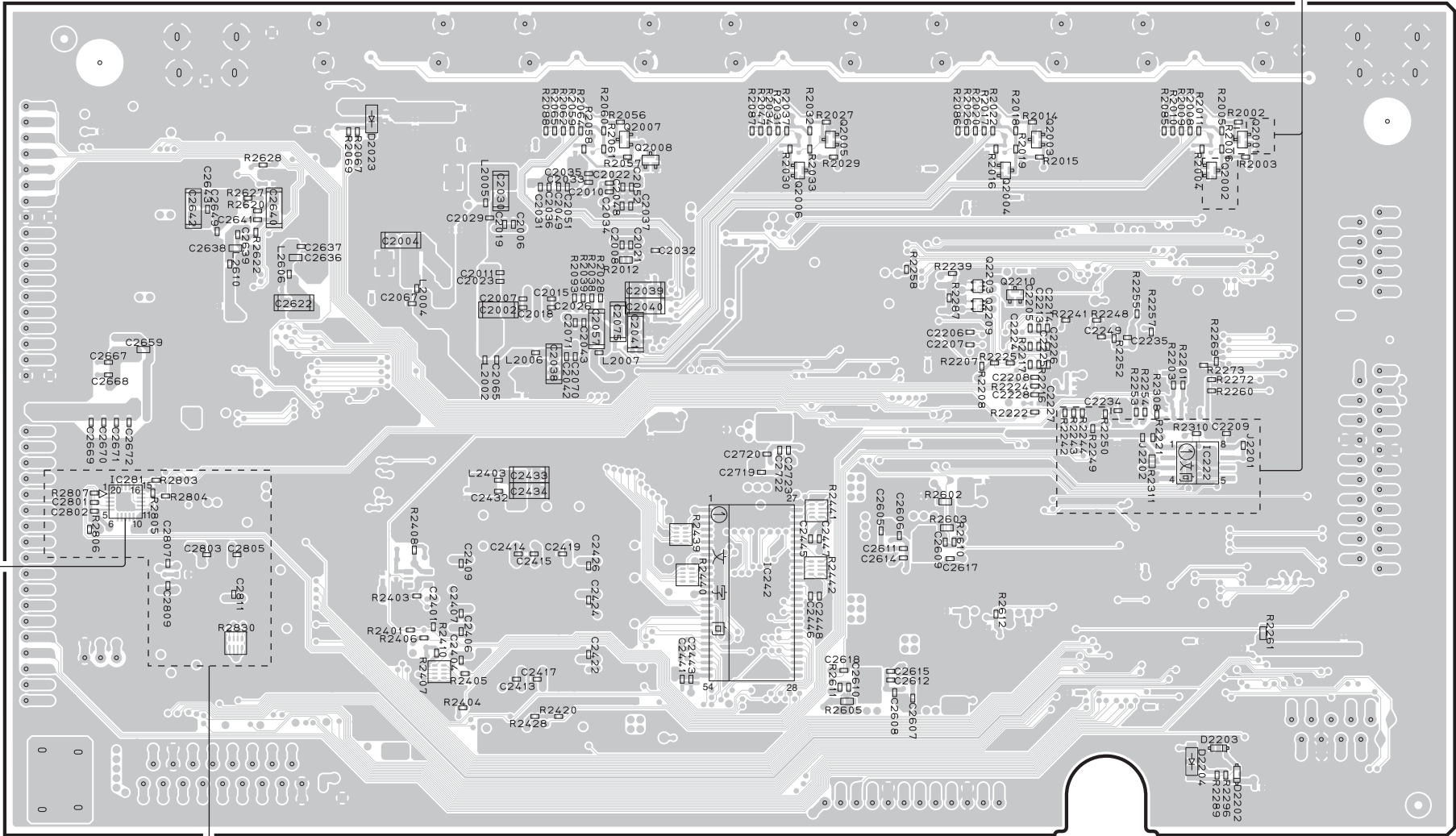


DIGITAL (Side A)



DIGITAL (Side B)

U, C, R, K, A, B, G, F, L, S, H, J models



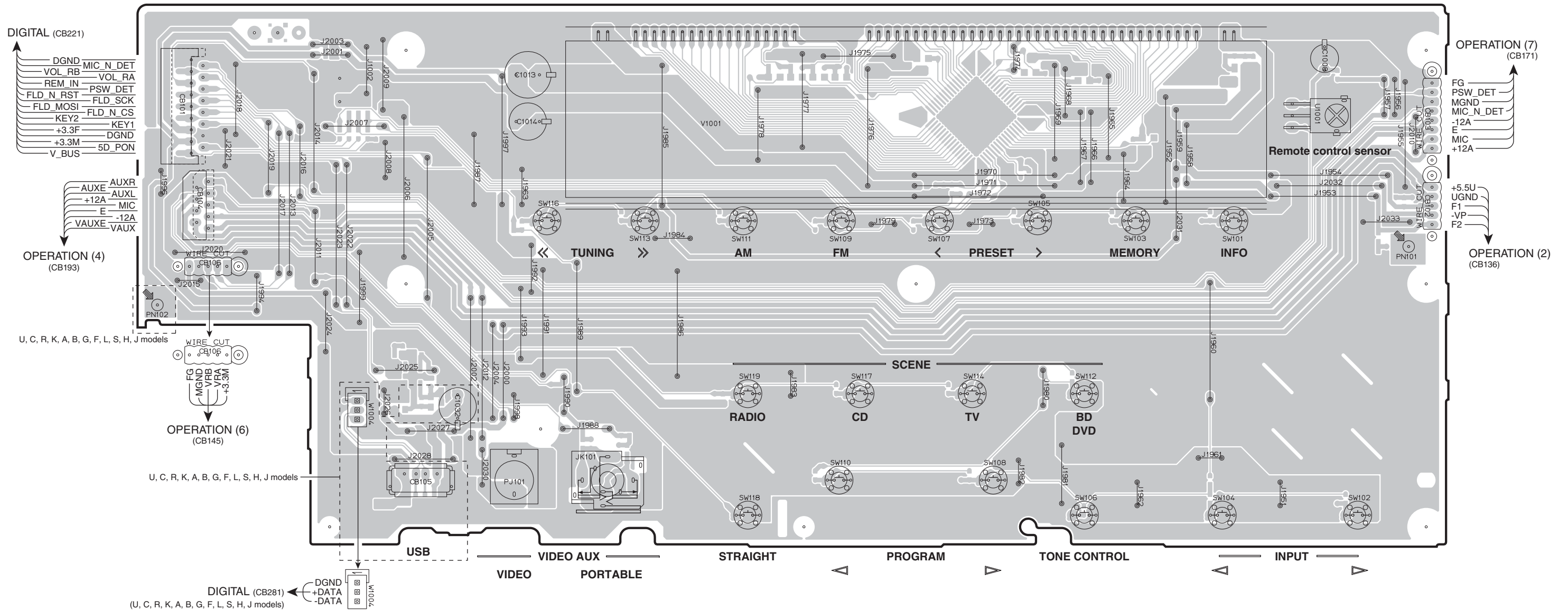
No replacement part available.
サービス部品供給なし

• Semiconductor Location

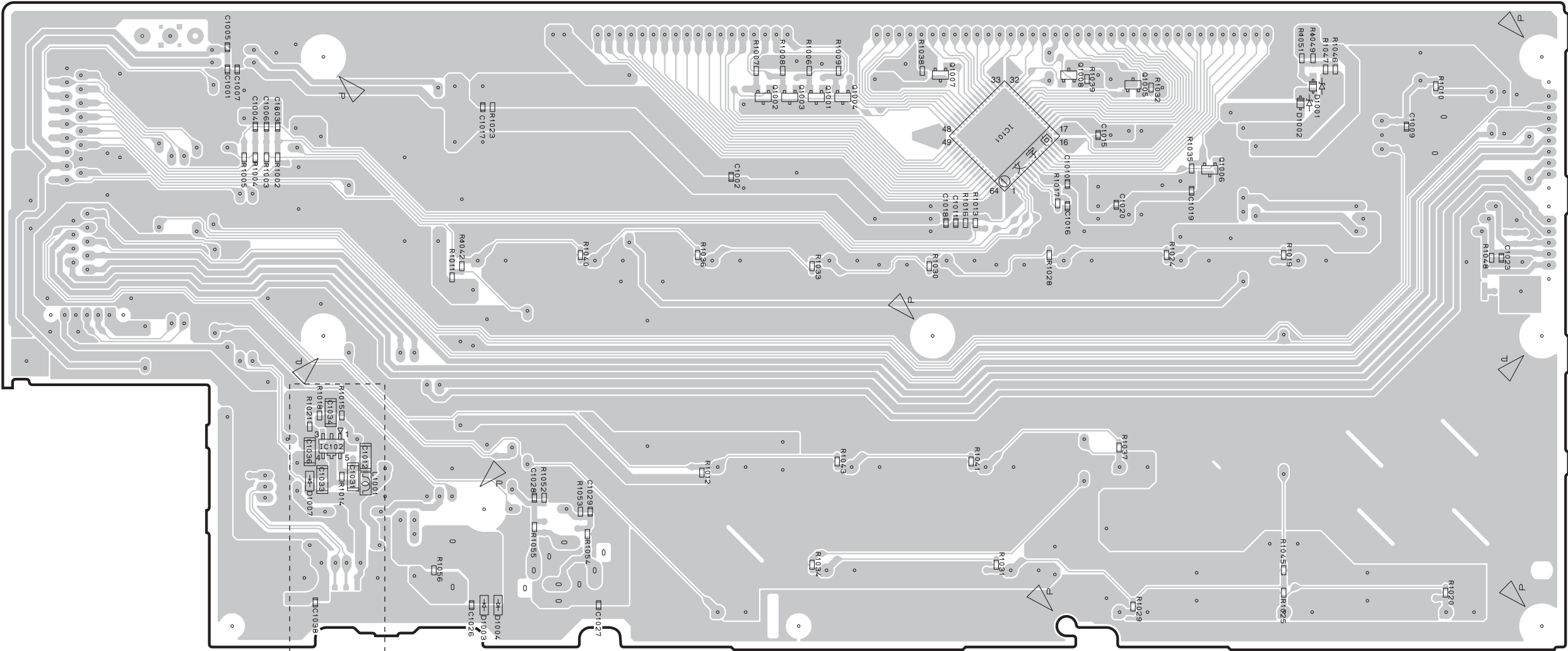
| Ref no. | Location |
|---------|----------|
| D2023 | C3 |
| D2202 | G6 |
| D2203 | G6 |
| D2204 | G6 |
| IC222 | G5 |
| IC242 | E5 |
| IC281 | B5 |
| Q2003 | F3 |
| Q2004 | F3 |
| Q2005 | E3 |
| Q2006 | E3 |
| Q2007 | D3 |
| Q2008 | D3 |
| Q2201 | G3 |
| Q2202 | G3 |
| Q2203 | F4 |
| Q2209 | F4 |
| Q2210 | F4 |

U, C, R, K, A, B, G, F, L, S, H, J models

OPERATION (1) (Side A)



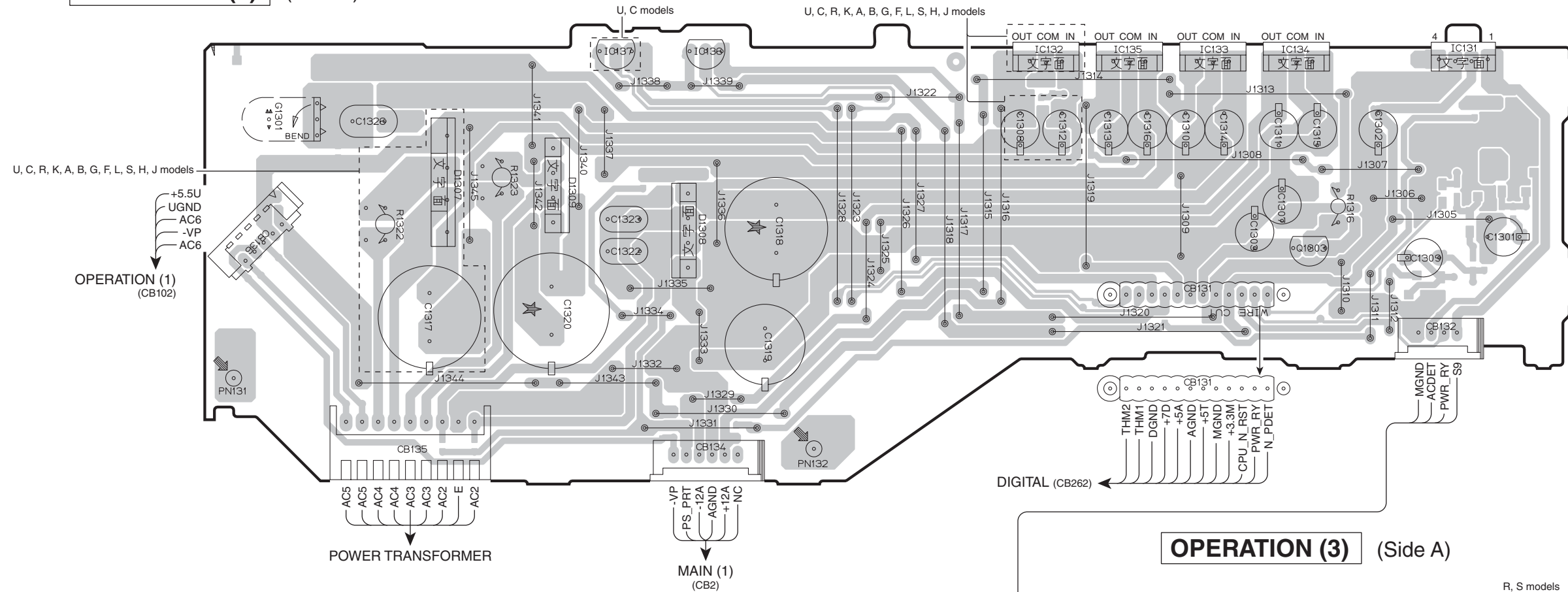
OPERATION (1) (Side B)



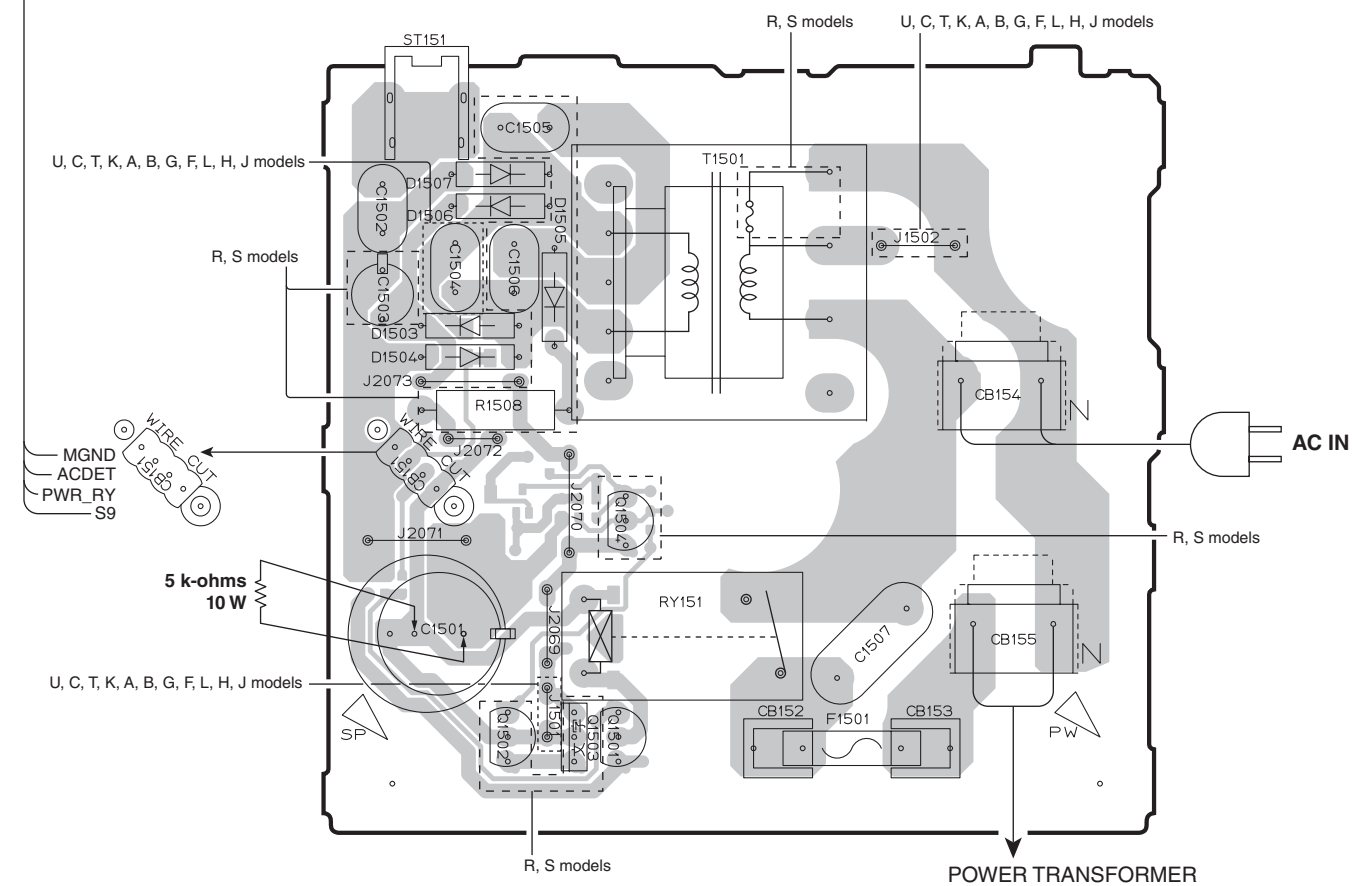
• Semiconductor Location

| Ref no. | Location | Ref no. | Location |
|---------|----------|---------|----------|
| D1001 | H3 | Q1002 | E3 |
| D1002 | H3 | Q1003 | E3 |
| D1003 | D5 | Q1004 | F3 |
| D1004 | D5 | Q1005 | G3 |
| D1007 | C5 | Q1006 | G3 |
| IC101 | F3 | Q1007 | F3 |
| IC102 | C5 | Q1008 | G3 |
| Q1001 | E3 | | |

OPERATION (2) (Side A)



OPERATION (3) (Side A)



Safety measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
 - Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.
- C1501 on OPERATION (3) P.C.B.

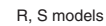
安全対策

- ・ この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- ・ 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗 (5 k Ω /10 W) を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
- OPERATION (3) P.C.B. の C1501

| | |
|----------------------|----------|
| OPERATION (2) | (Side B) |
|----------------------|----------|



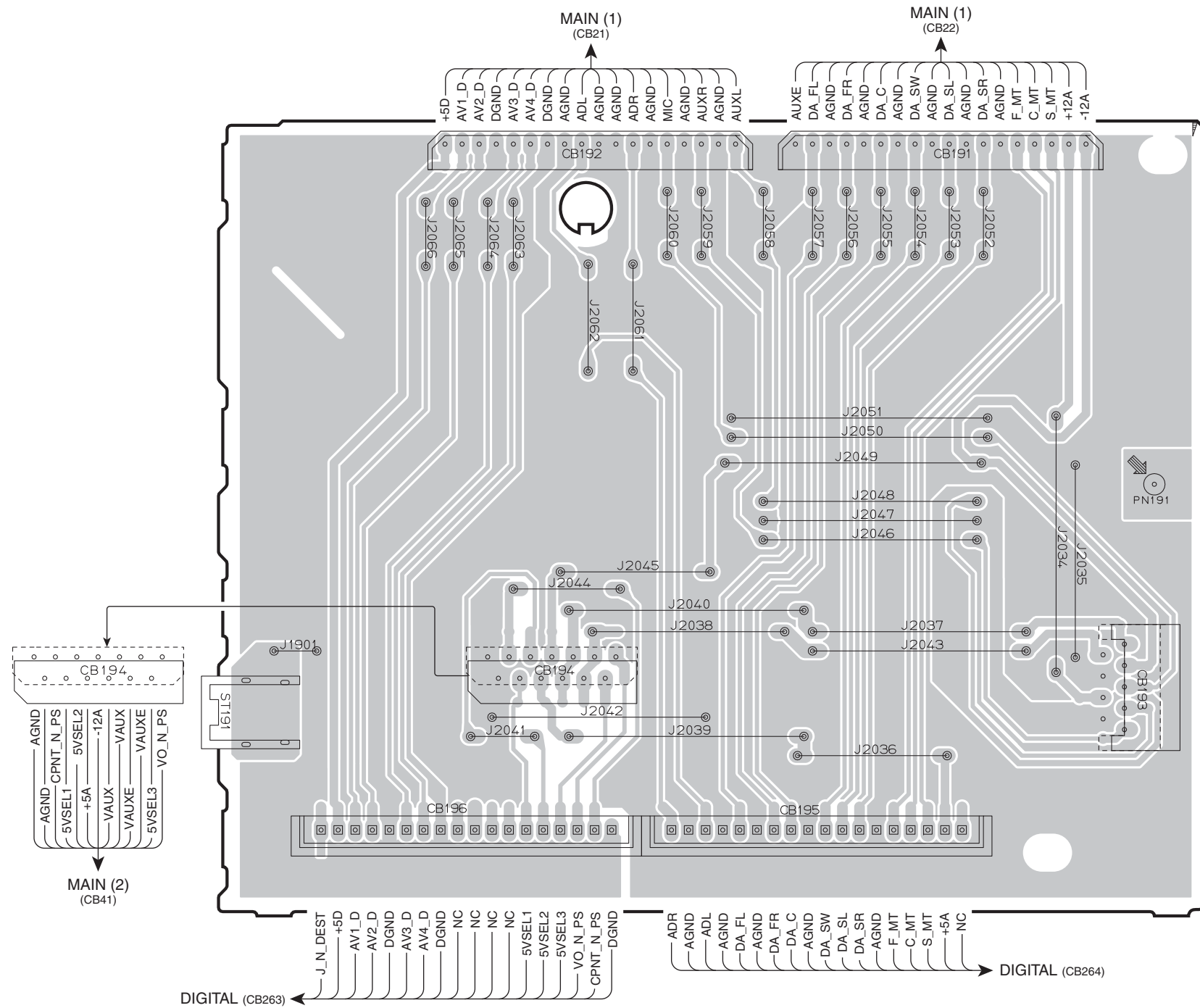
| | |
|----------------------|----------|
| OPERATION (3) | (Side B) |
|----------------------|----------|



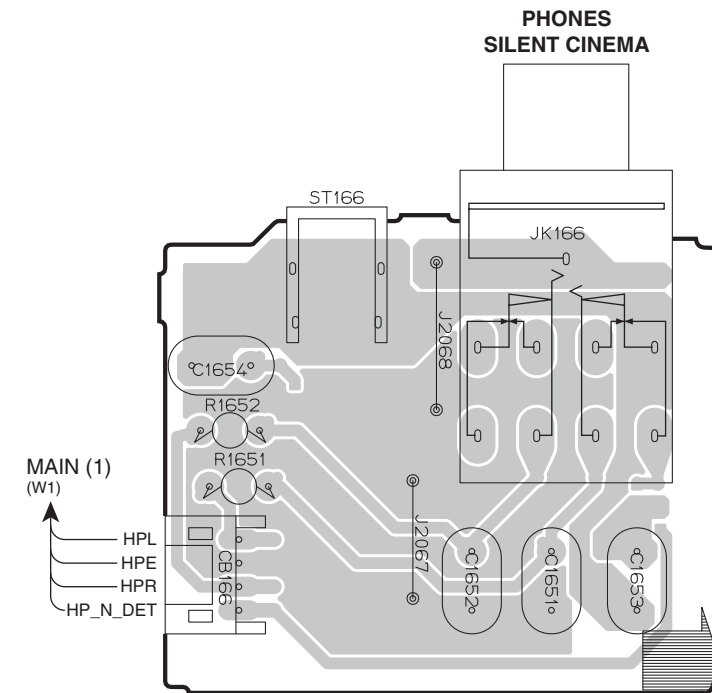
- Semiconductor Location

| Ref no. | Location | Ref no. | Location |
|---------|----------|---------|----------|
| D1301 | H2 | D1502 | G6 |
| D1302 | H2 | D1508 | G5 |
| D1303 | H2 | D1509 | G5 |
| D1304 | G2 | D1510 | G6 |
| D1305 | H2 | Q1301 | H2 |
| D1306 | H3 | Q1302 | H2 |
| D1313 | B2 | Q1304 | G3 |
| D1314 | B2 | Q1505 | G6 |
| D1501 | G6 | | |

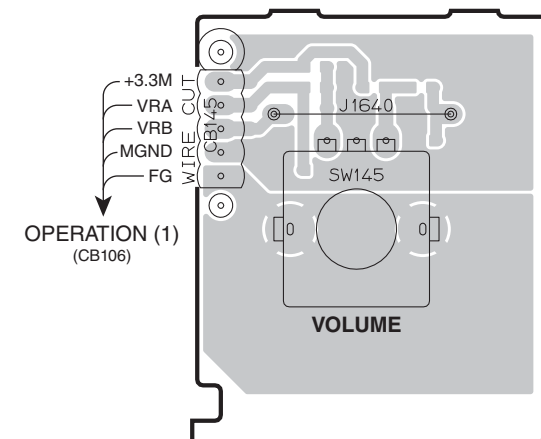
OPERATION (4) (Side A)



OPERATION (5) (Side A)



OPERATION (6)



1

OPERATION (4) (Side B)

2

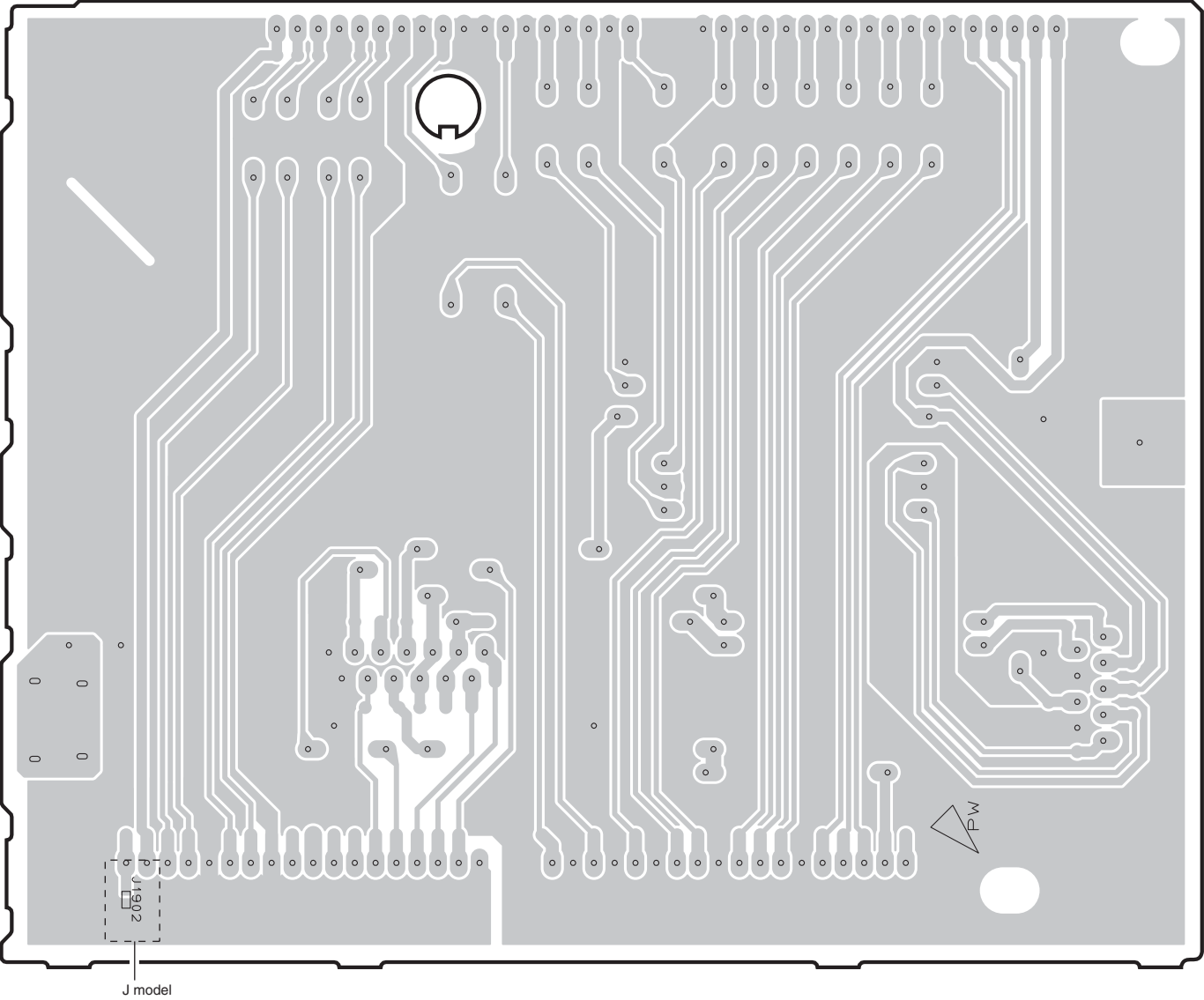
3

4

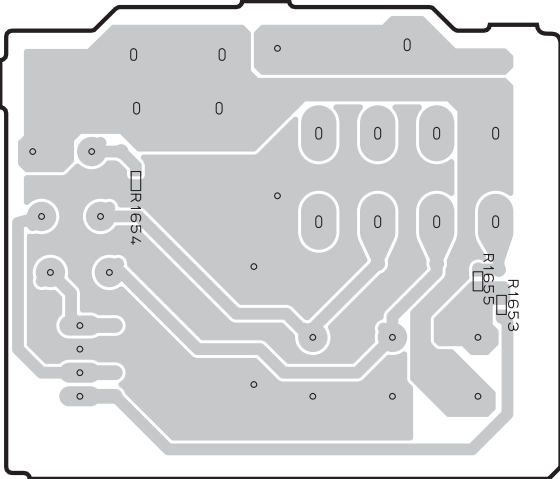
5

6

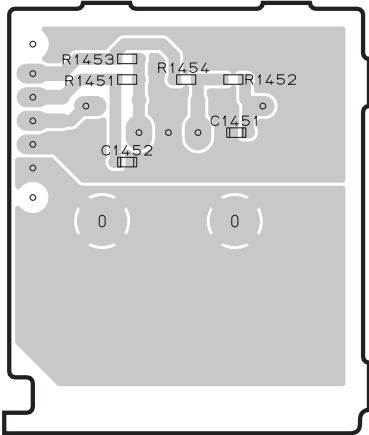
7



OPERATION (5) (Side B)

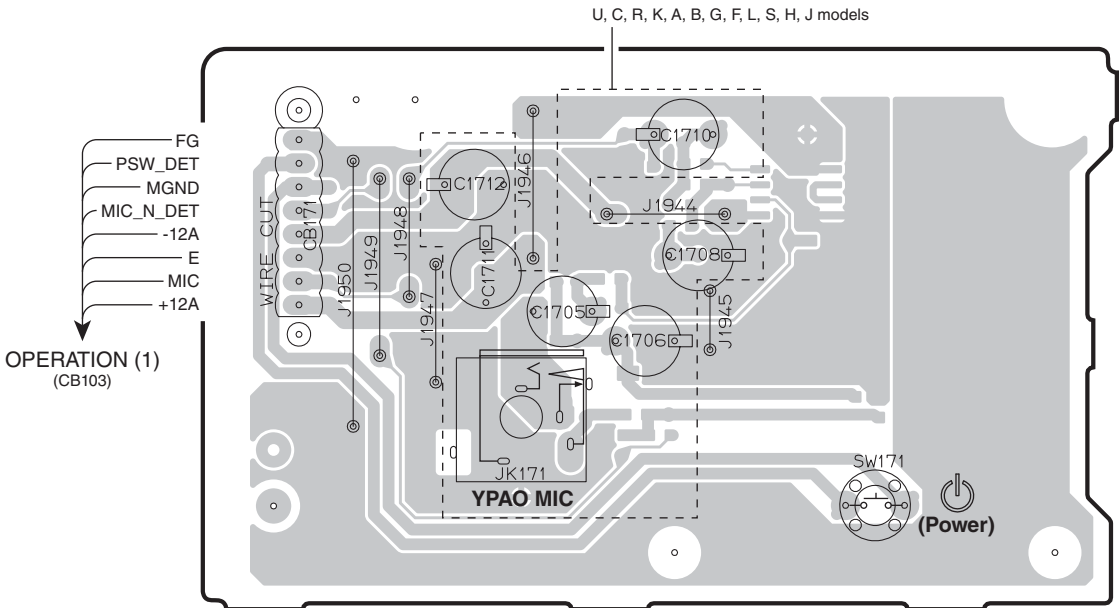


OPERATION (6) (Side B)

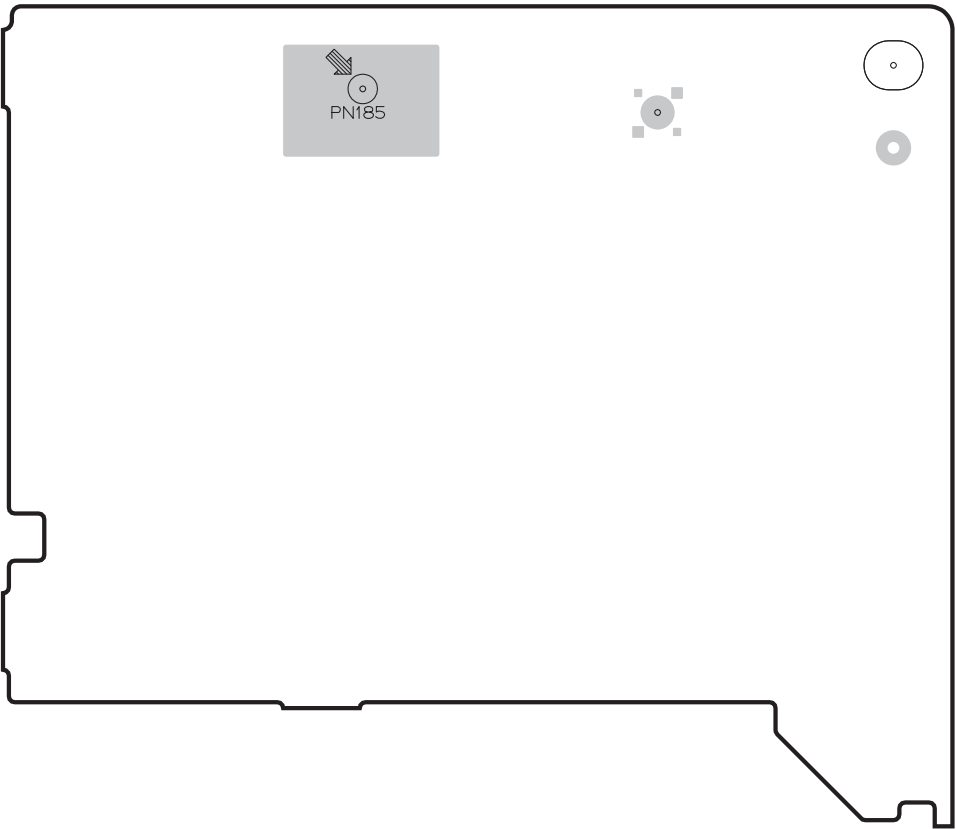


1

OPERATION (7) (Side A)



OPERATION (8) (Side A)



2

3

4

OPERATION (9) (Side A)



5

6

7

1

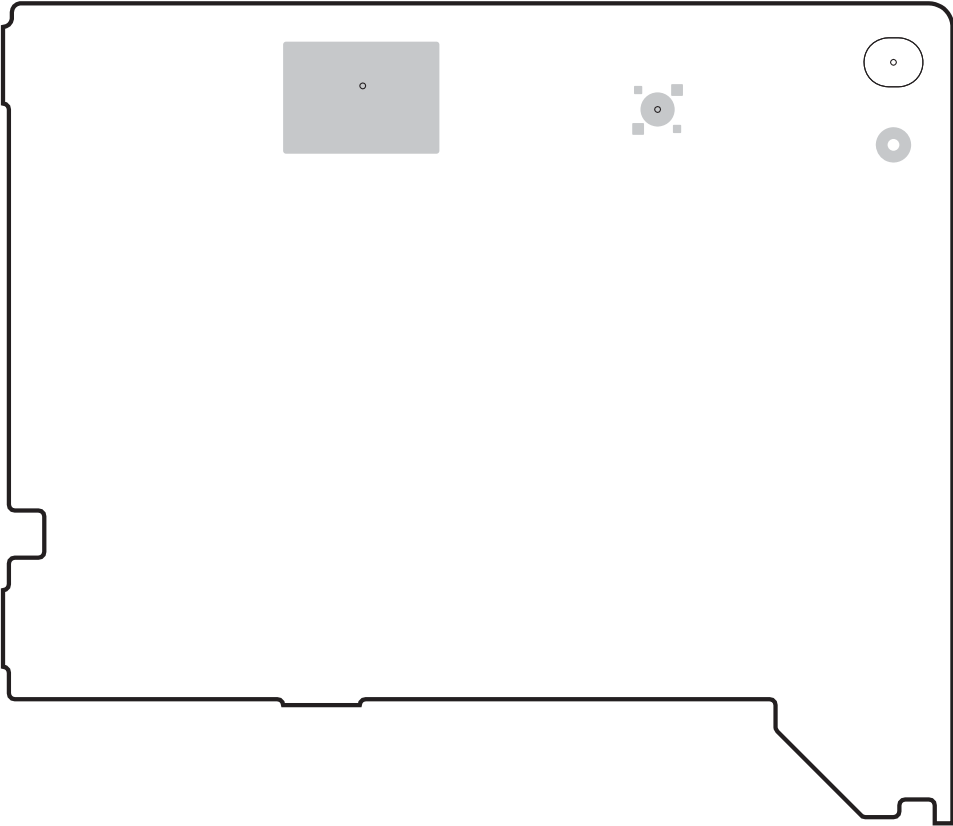
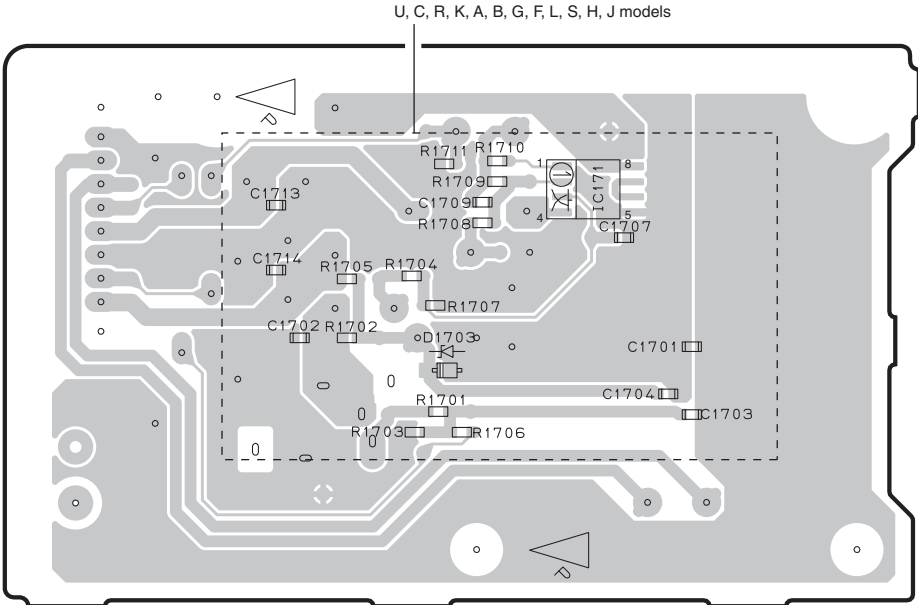
OPERATION (7) (Side B)

OPERATION (8) (Side B)

2

3

4



• Semiconductor Location

| Ref no. | Location |
|---------|----------|
| D1703 | C3 |
| IC171 | D2 |

OPERATION (9) (Side B)

5

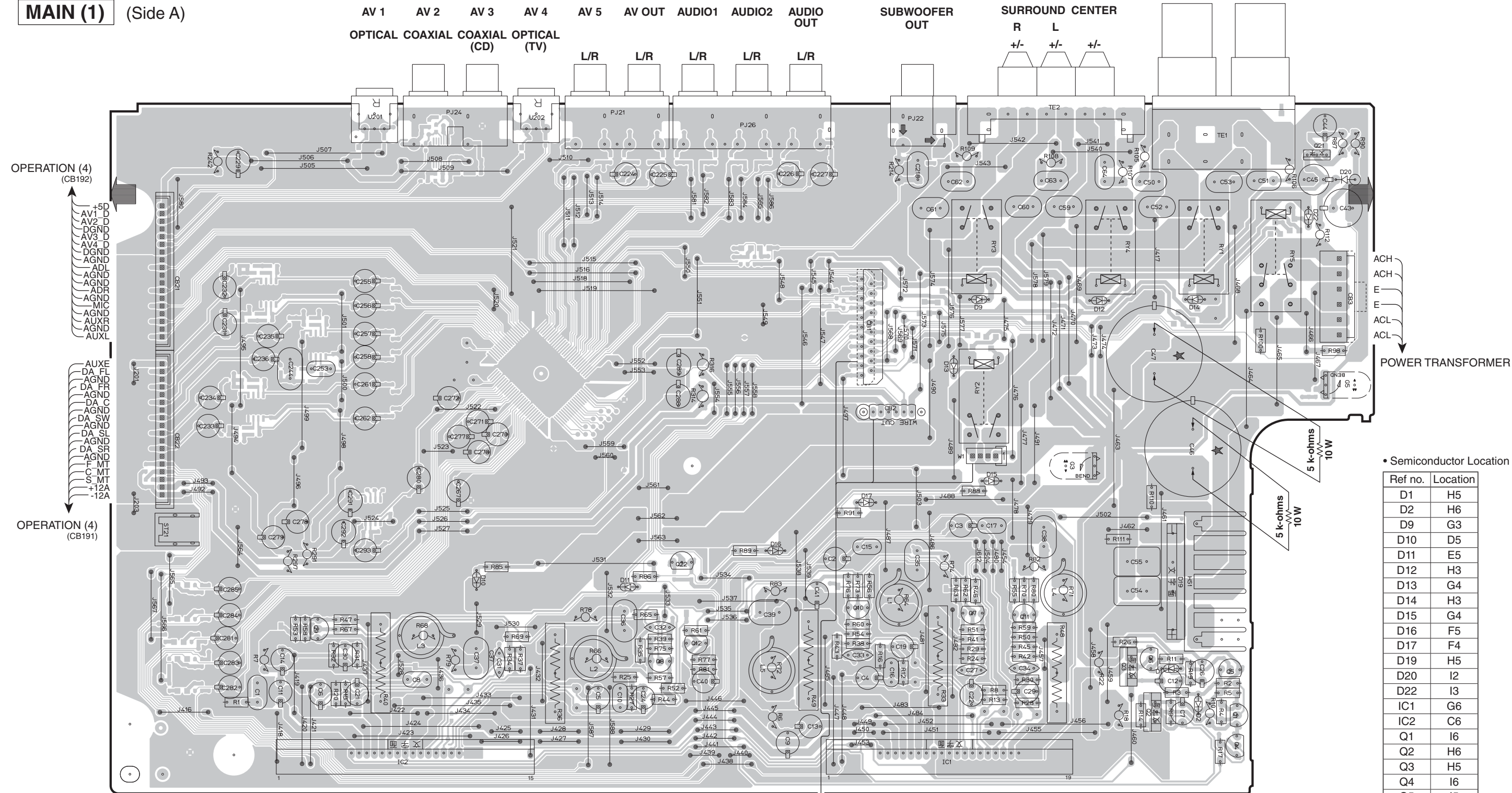
6

7



MAIN (1)

(Side A)

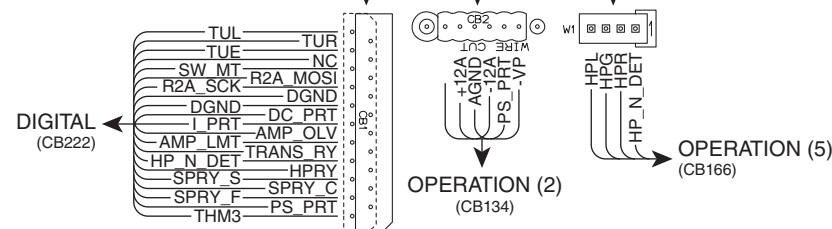


Safety measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
 - Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.
- C46, C47 on MAIN (1) P.C.B.

安全対策

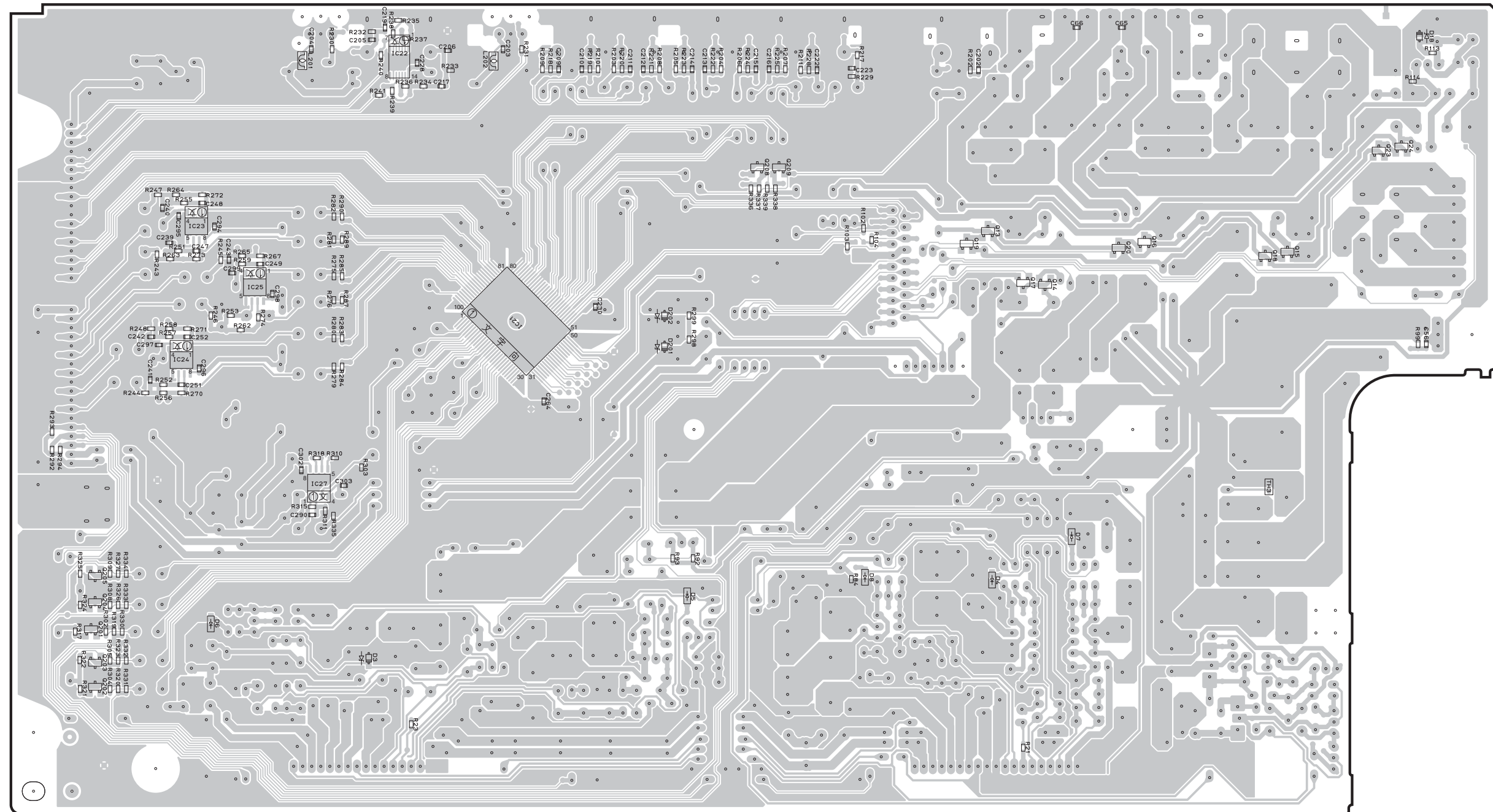
- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗 ($5\text{ k}\Omega / 10\text{ W}$) を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
MAIN (1) P.C.B. の C46、C47



- Semiconductor Location

| Ref no. | Location |
|---------|----------|
| D1 | H5 |
| D2 | H6 |
| D9 | G3 |
| D10 | D5 |
| D11 | E5 |
| D12 | H3 |
| D13 | G4 |
| D14 | H3 |
| D15 | G4 |
| D16 | F5 |
| D17 | F4 |
| D19 | H5 |
| D20 | I2 |
| D22 | I3 |
| IC1 | G6 |
| IC2 | C6 |
| Q1 | I6 |
| Q2 | H6 |
| Q3 | H5 |
| Q4 | I6 |
| Q5 | I5 |
| Q6 | H5 |
| Q7 | G5 |
| Q8 | E5 |
| Q9 | C5 |
| Q10 | F5 |
| Q11 | G5 |
| Q12 | E5 |
| Q21 | I2 |
| Q22 | E5 |

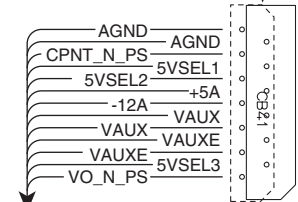
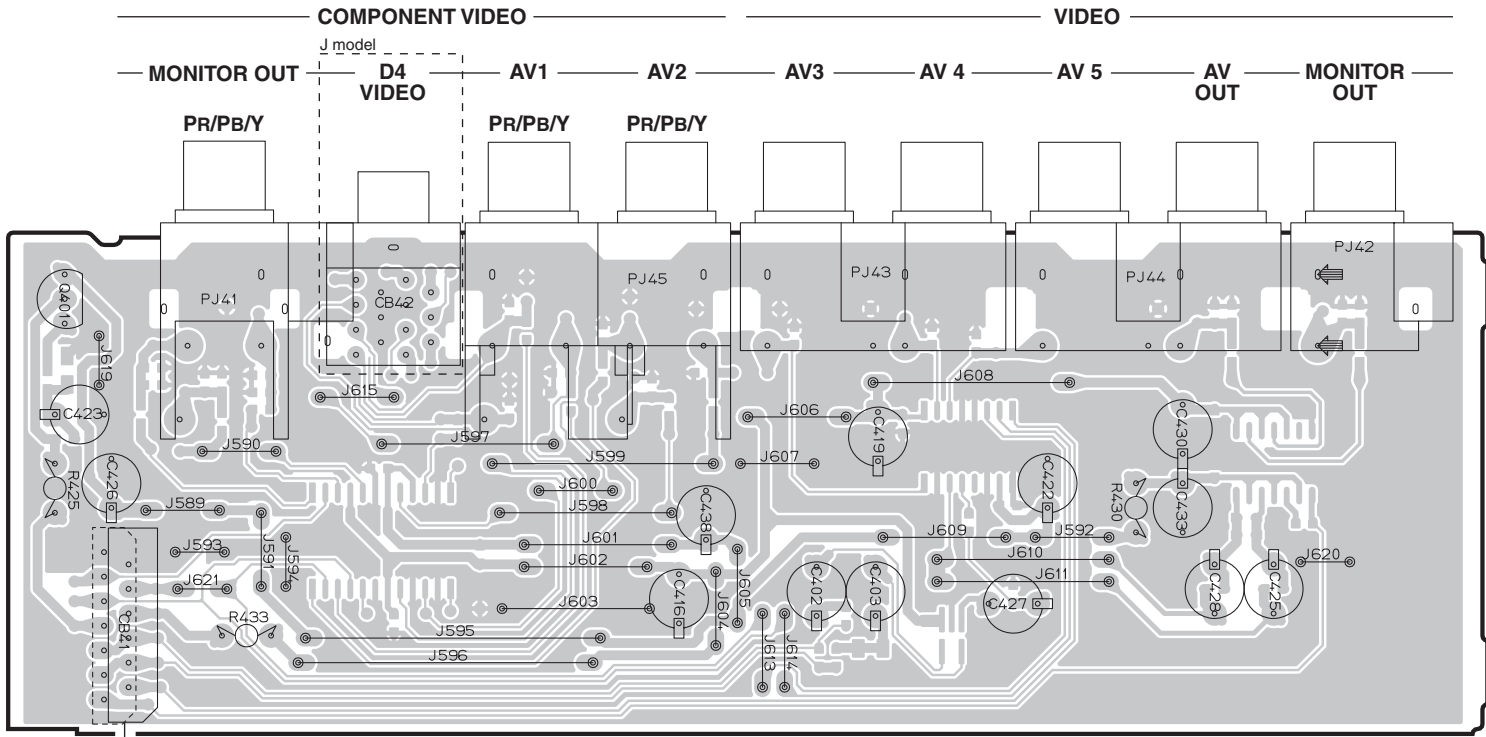
MAIN (1)



- Semiconductor Location

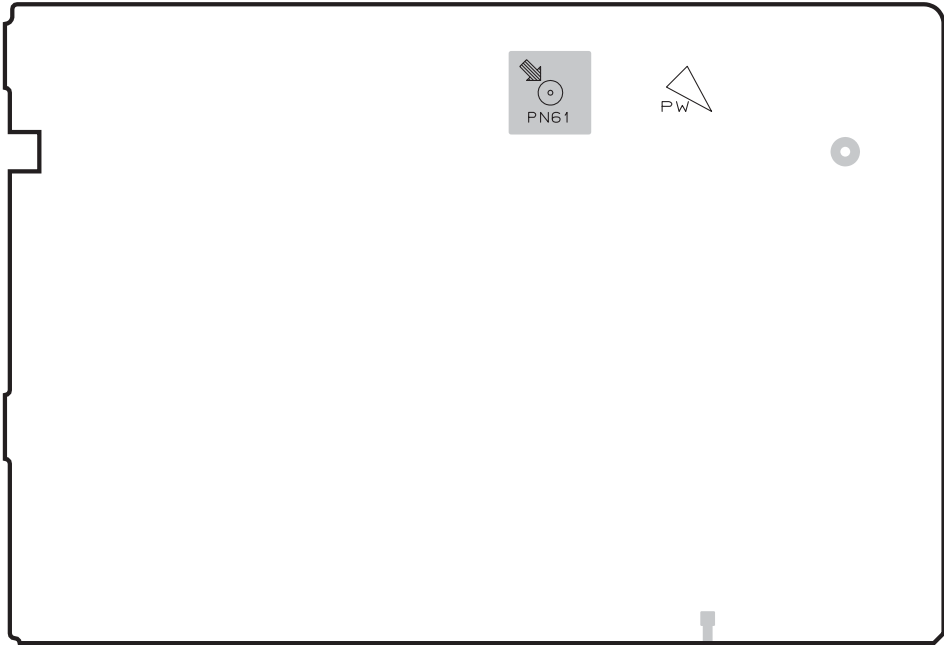
| Ref no. | Location |
|---------|----------|
| D3 | C5 |
| D4 | F5 |
| D5 | E5 |
| D6 | B5 |
| D7 | G5 |
| D8 | F5 |
| D18 | I2 |
| D201 | D4 |
| D202 | D4 |
| IC21 | D4 |
| IC22 | C2 |
| IC23 | B3 |
| IC24 | B4 |
| IC25 | B3 |
| IC27 | C4 |
| Q13 | F3 |
| Q14 | G3 |
| Q15 | H3 |
| Q16 | G3 |
| Q17 | F3 |
| Q18 | H3 |
| Q19 | F3 |
| Q20 | G3 |
| Q23 | H3 |
| Q24 | H3 |
| Q201 | A5 |
| Q202 | A6 |
| Q203 | A5 |
| Q204 | A5 |
| Q205 | A5 |
| Q208 | E3 |
| Q209 | E3 |

MAIN (2) (Side A)



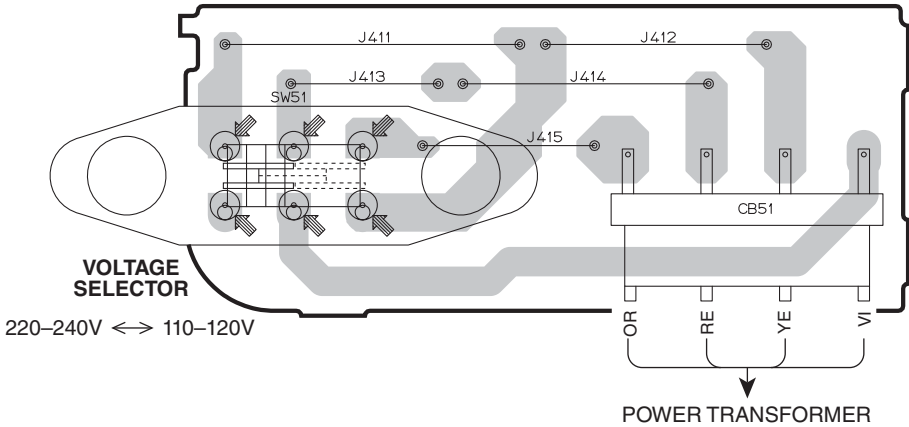
OPERATION (4)
(CB194)

MAIN (4) (Side A)



MAIN (3) (Side A)

R, S models

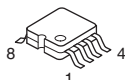
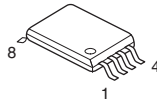
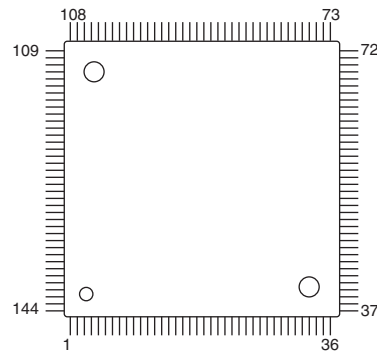
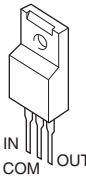
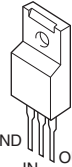
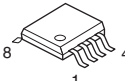
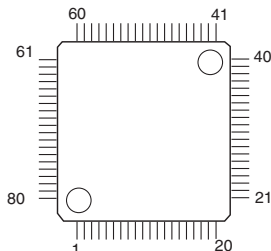
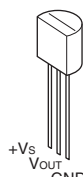
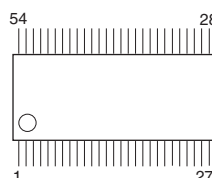
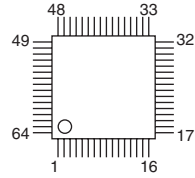
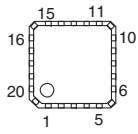
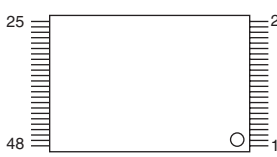
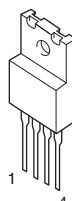
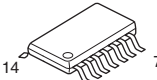
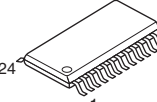
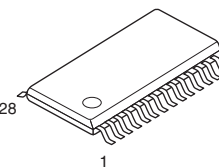
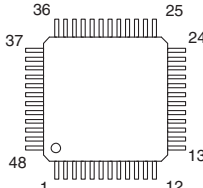
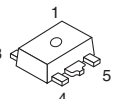
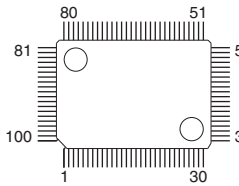
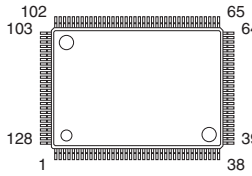
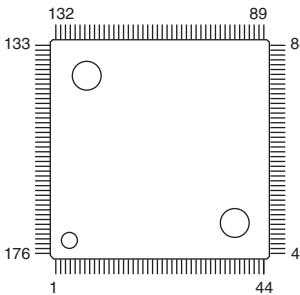
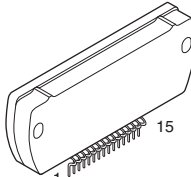
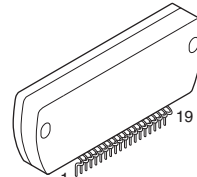
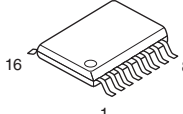
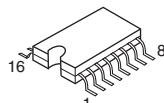
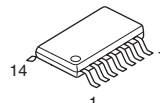
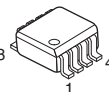
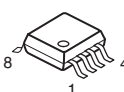


• Semiconductor Location

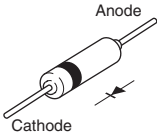
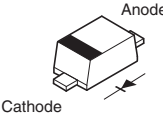
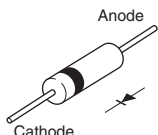
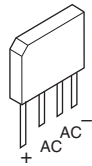
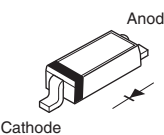
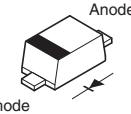
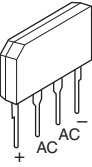
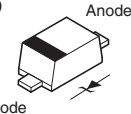
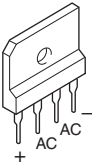
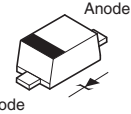
| Ref no. | Location |
|---------|----------|
| Q401 | B3 |

PIN CONNECTION DIAGRAMS

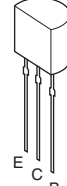
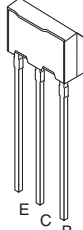
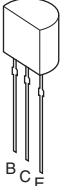
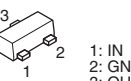
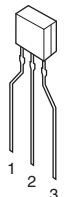
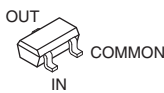
ICs

| | | | | | |
|--|---|---|--|---|--|
| BA4560F-E2
 | R1EX25032ATA00A
 | D70YE101BRFP266
 | | KIA7805API
KIA7812API
 | KIA7912PI
 |
| BD9328EFJ
 | BU94607ARKV-E2
 | | | | |
| LM19CIZ/LF
 | M12L64164A-5TG
 | M66003-0131FP-R
 | MFI341S2161
 | MX29LV160DBTI-70G
 | |
| NJM2388F33

1. V _{IN}
2. V _{OUT}
3. GND
4. ON/OFF CONTROL | NJM2505A
 | NJM2581M
 | NJM2586AM (TE2)
 | PCM1681PWPR
 | PCM9211PTR
 |
| R1172H501D-T1-F
R1191H050B-T1-FE
R1191H050D-T1-FE
 | R2A15220FP
 | | R5F3651TNFC
 | | SII9573CTUC
 |
| SN74LVC1G17DCKR
 | | | | | |
| STK433-130N-E
 | STK433-330N-E
 | TC7MBL3257CFK
 | TC74HC4051AFEL
 | TC74VHC08FT
TC74VHCT08AFT
TC74VHCU04FT
 | |
| TC7WHU04FU
 | W25Q16CVSSIG
W25Q80BVSSIG
 | | | | |

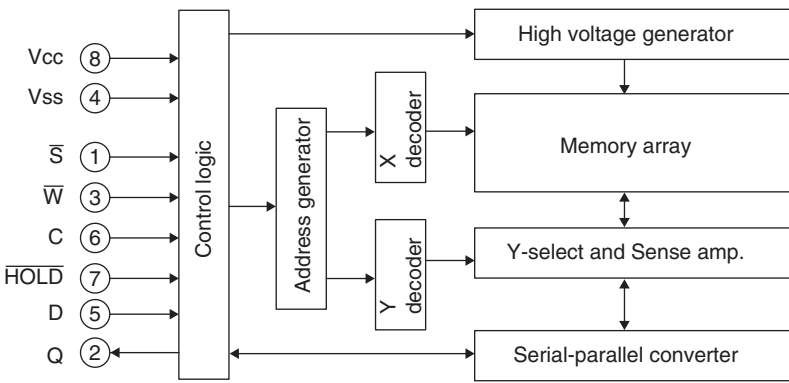
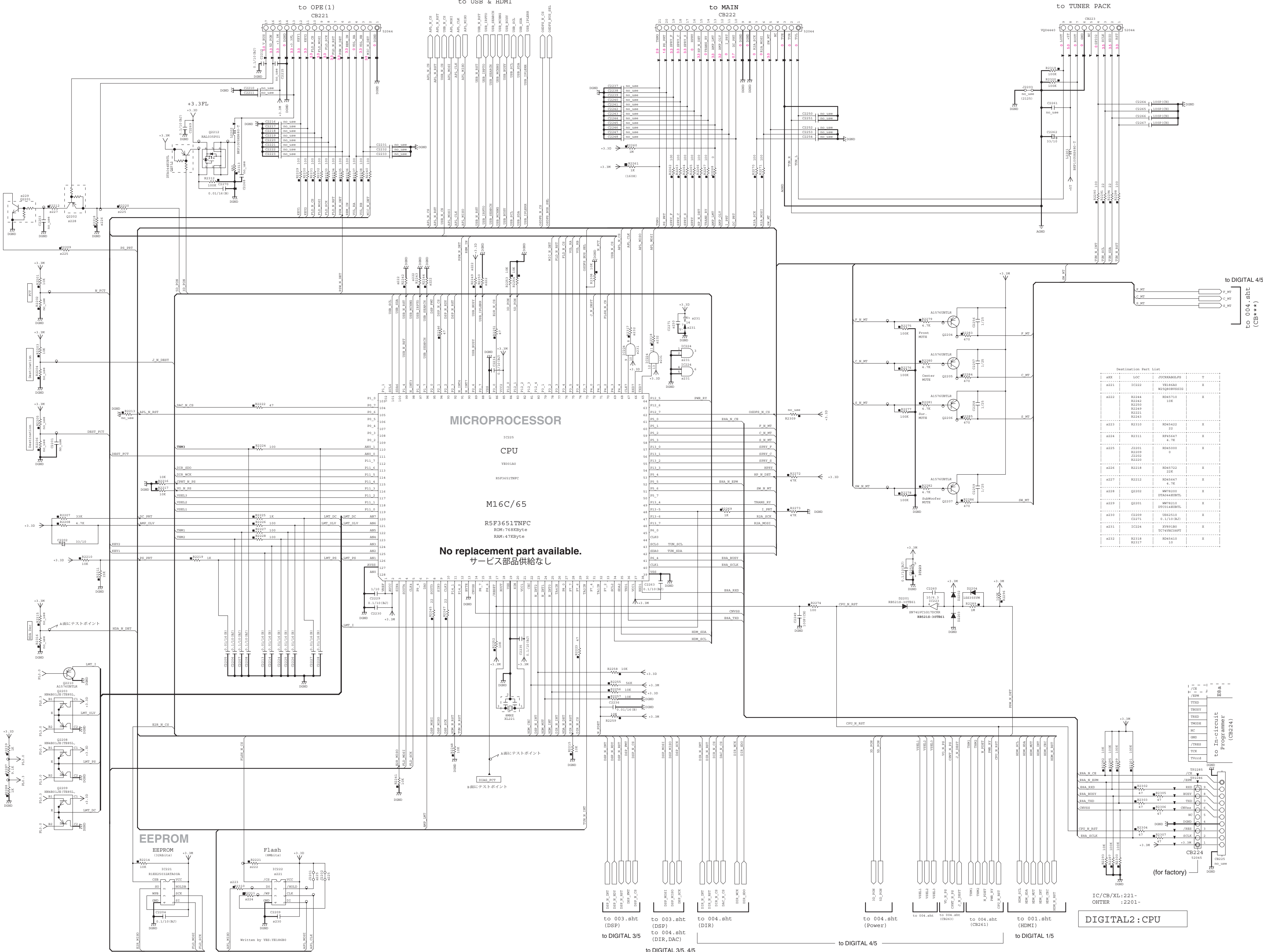
Diodes

| | | | | |
|---|---|--|--|--|
| 1N4003S
1SS133
1SS176
1SS270A
 | 1SS355VMTE-17
 | 1T2
 | KBP103G 1.0A 200V
 | KDS160-RTK
 |
| RB500V-40
RB501V-40
RB521S-30
 | RS203M-B-C-J80
 | TFZGTR4.7A
TFZGTR5.6C
TFZGTR6.8C
TFZGTR39D
 | TS6P03G 6.0A 200V
 | UDZV4.3B
UDZV4.7B
UDZV5.1B
UDZV5.6B
UDZV6.8B
UDZV39B
 |

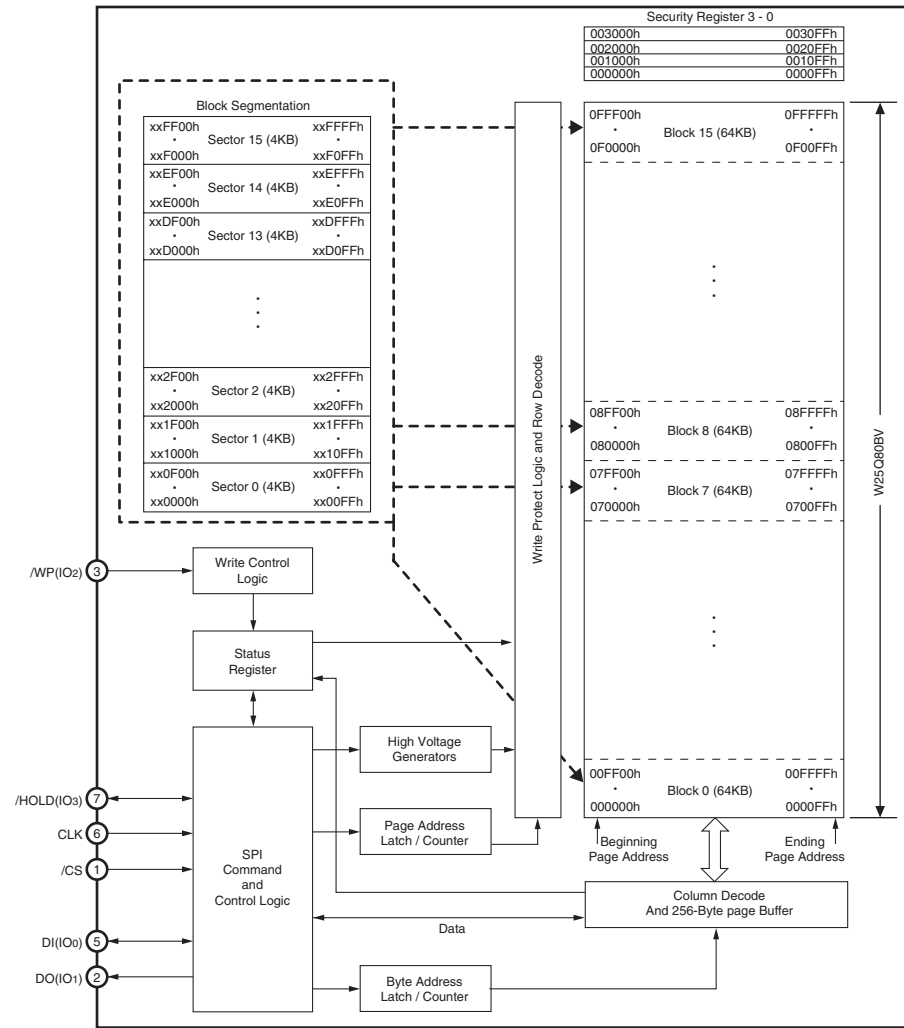
Transistors

| | | | | | | | |
|---|---|--|--|--|--|---|--|
| 2SA1576UBTLR
 | 2SA1015-Y
2N5401C-AT/P
KTA1266 Y AT
 | 2SB1236 TV2Q
 | 2SB1565 E,F
 | 2SC4081UBTLR
 | 2N5551C-AT
KTC3198 Y AT
 | 2SD2704 K
KTC3875S
 | DTA044EUBTL
DTC014EUBTL
 |
| DTC114ESA-TP
 | DTC114EUA TP
 | HN4B01JE
 | KRA104S-RTK
KRC102S-RTK
KRC104S-RTK
 | RAL035P01
 | μPA672T-T1-A
 | | |

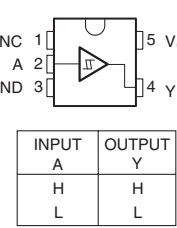




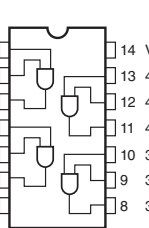
IC222: W25Q80BVSSIG
8 M-bit flash memory with dual and quad SPI



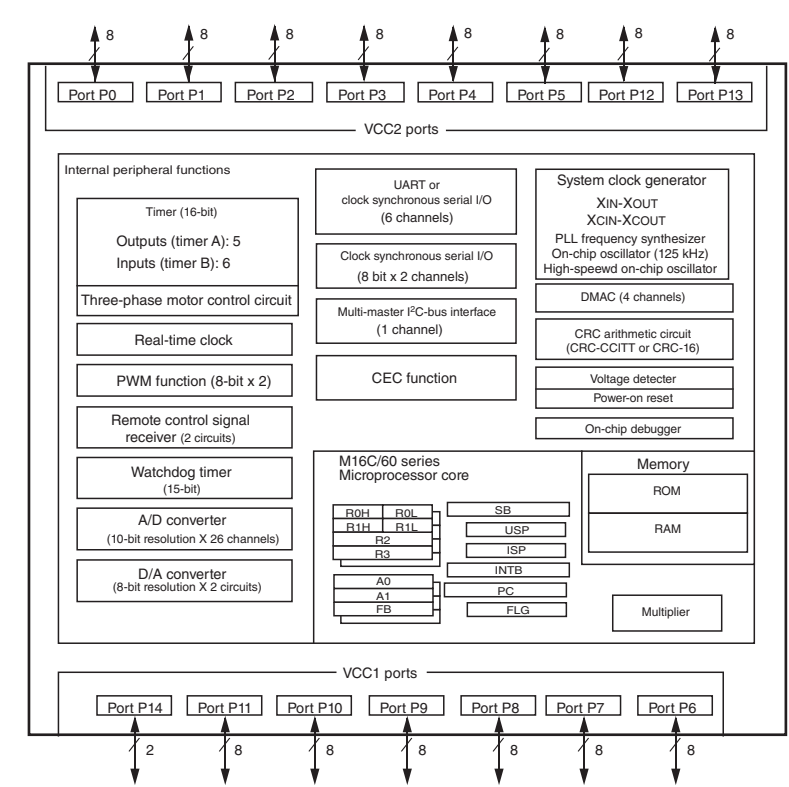
IC223: SN74LVC1G17DCKR
Single schmitt-trigger buffer



IC224: TC74VHC08FT
Quad 2-input AND gate



IC225: R5F3651TNFC
Single chip 16-bit microprocessor



| RESISTOR | |
|----------|---------------------------------|
| FEATURES | PARTS NAME |
| NO MARK | CARBON FILM RESISTOR (P=5) |
| | CARBON FILM RESISTOR (P=10) |
| | METAL OXIDE FILM RESISTOR |
| | METAL FILM RESISTOR |
| | METAL PLATE RESISTOR |
| | FIRE PROOF CARBON FILM RESISTOR |
| | CEMENT MOLDED RESISTOR |
| | SEMI VARIABLE RESISTOR |
| | TRIM RESISTOR |

| CAPACITOR | | |
|--|-----------------------------------|-----|
| SYMBOLS | PARTS NAME | |
| NO MARK
 | ELECTROLYTIC CAPACITOR | Z |
|  | TANTALUM CAPACITOR | |
| NO MARK
 | CERAMIC CAPACITOR | + t |
|  | CERAMIC TUBULAR CAPACITOR | |
|  | POLYESTER FILM CAPACITOR | |
|  | POLYSTYRENE FILM CAPACITOR | |
|  | MICA CAPACITOR | |
|  | POLYPROPYLENE FILM CAPACITOR | |
|  | SEMI CONDUCTIVE CERAMIC CAPACITOR | |

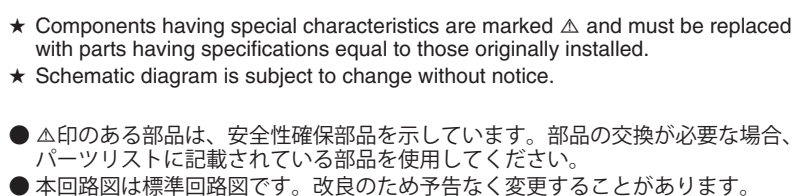
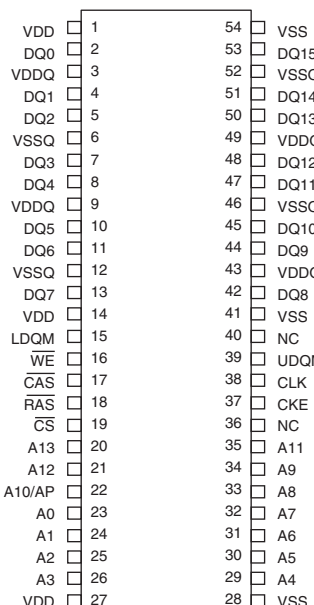
NOTICE (model)

(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

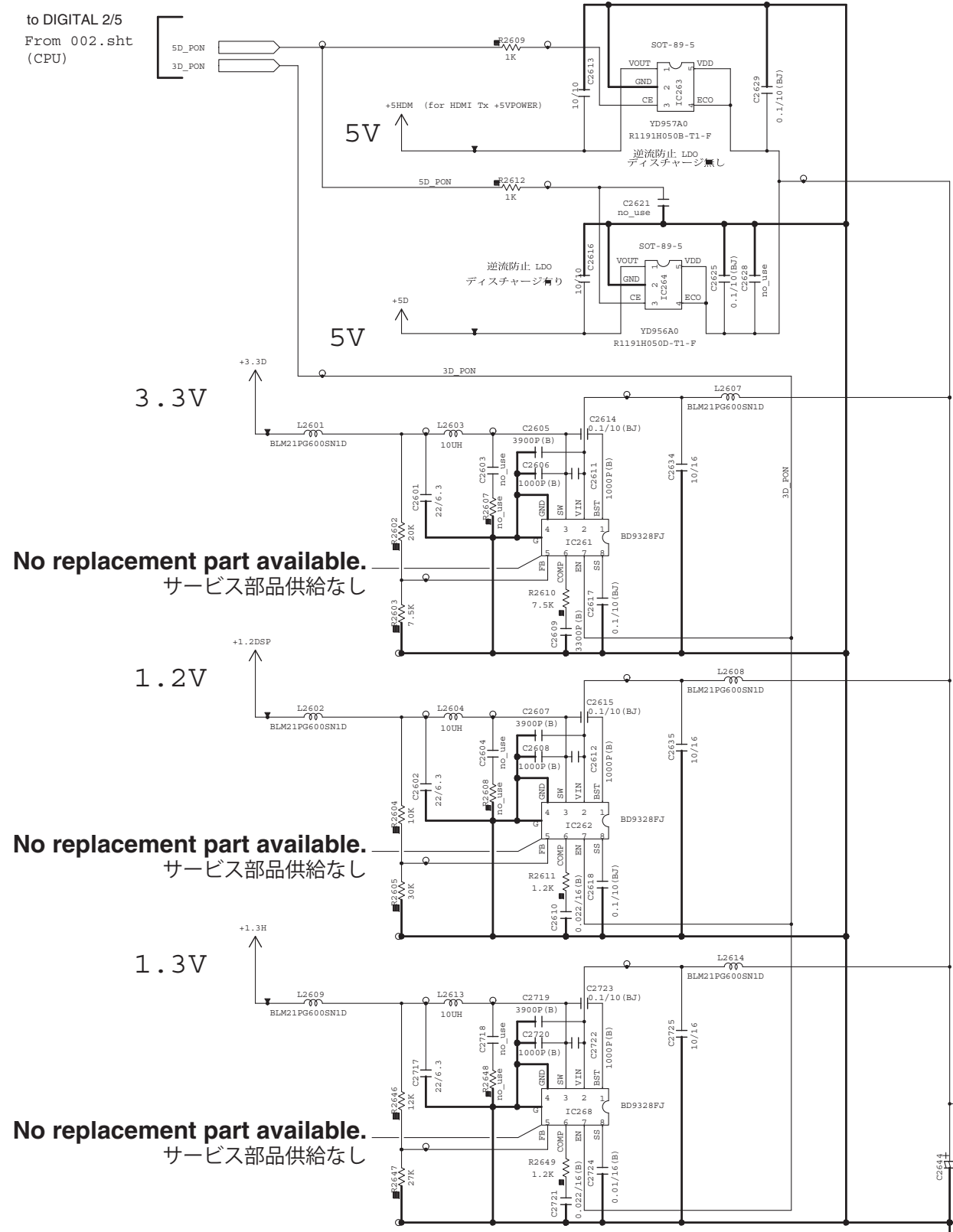
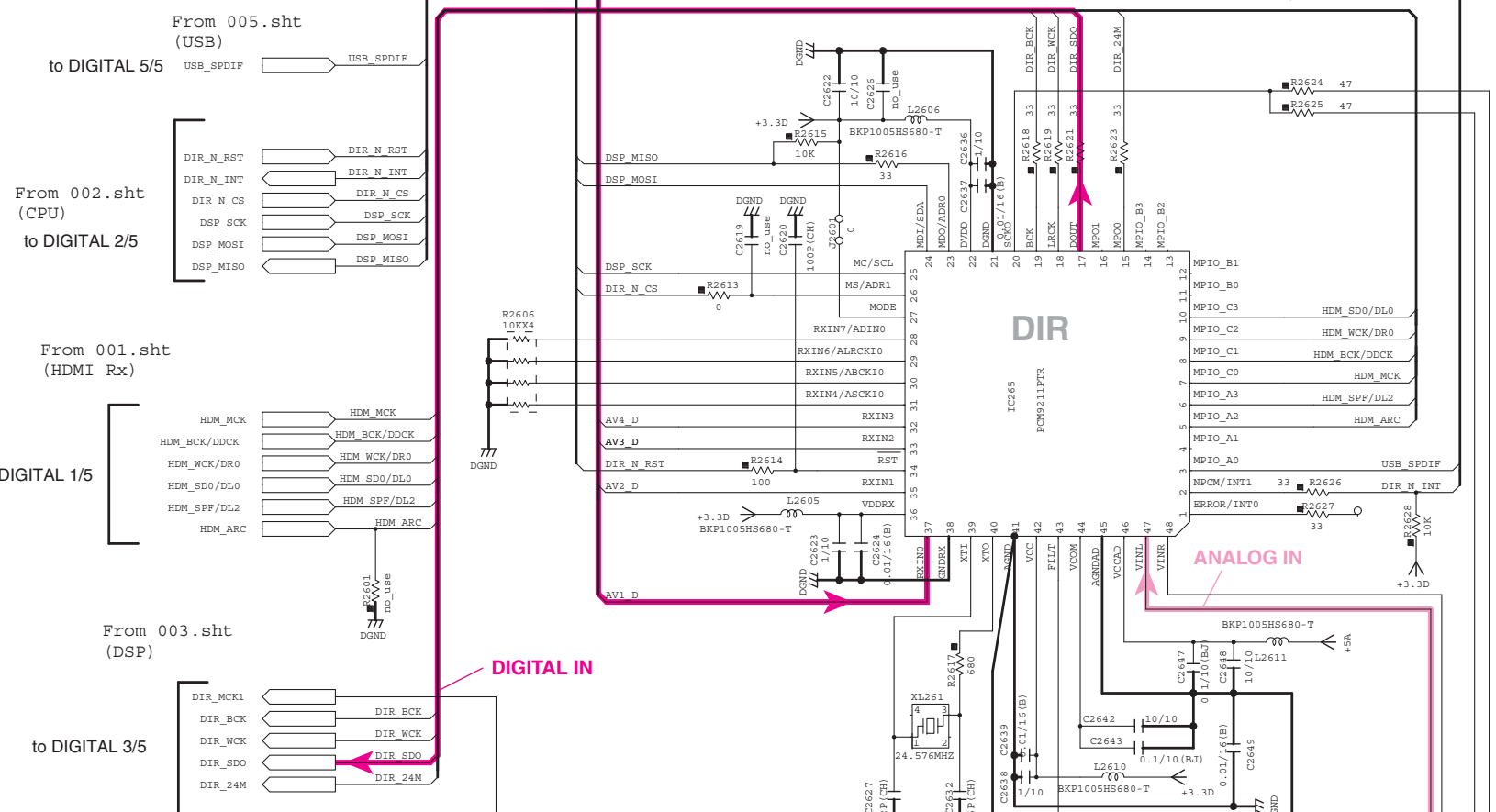
- ★ All voltages are measured with a 10M Ω /V DC electronic voltmeter.
- ★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

- 電圧は、内部抵抗 10MΩの電圧計で測定したものです。
- △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合
パーツリストに記載されている部品を使用してください。
- 本回路図は標準回路図です。改良のため予告なく変更することがあります。

2



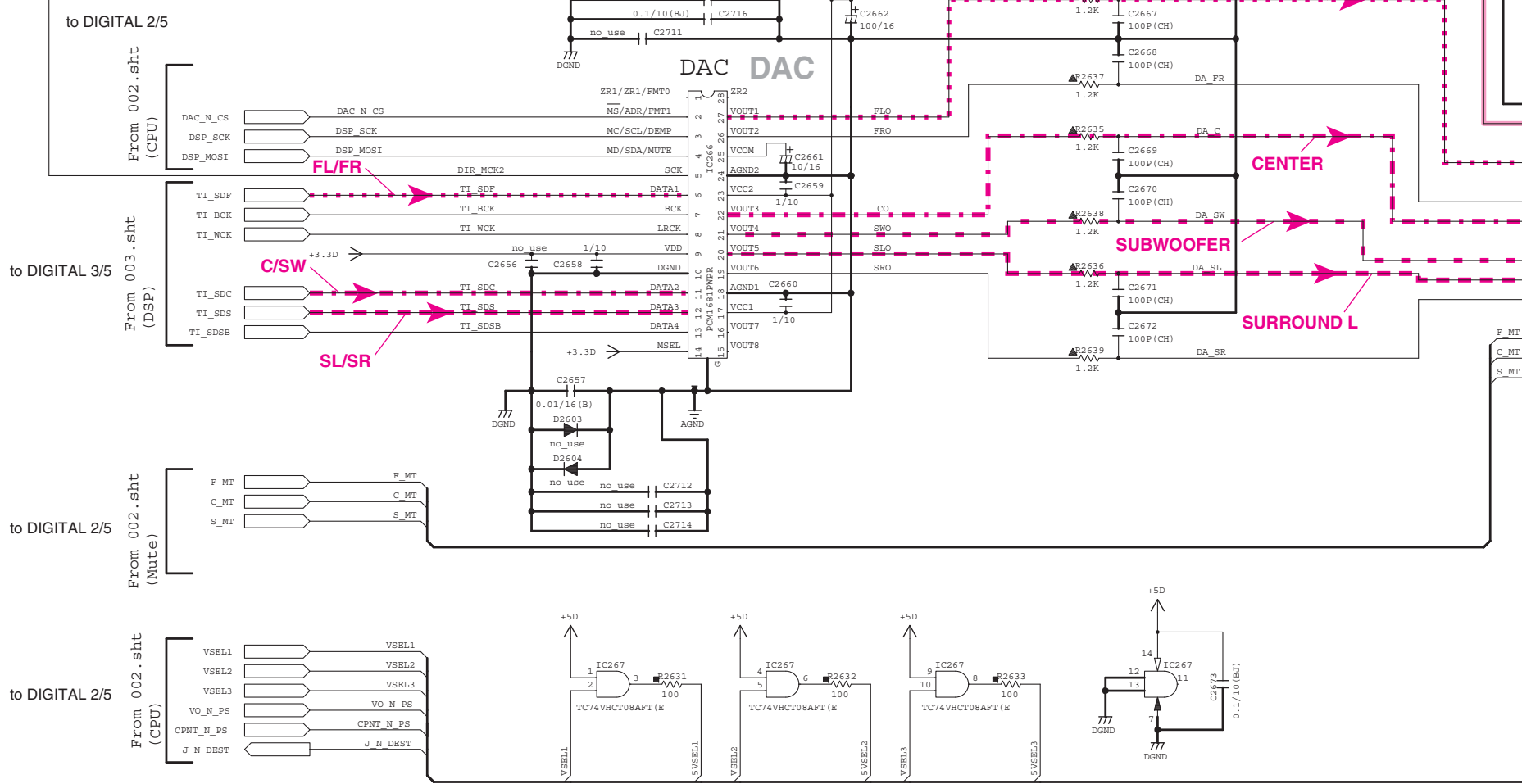
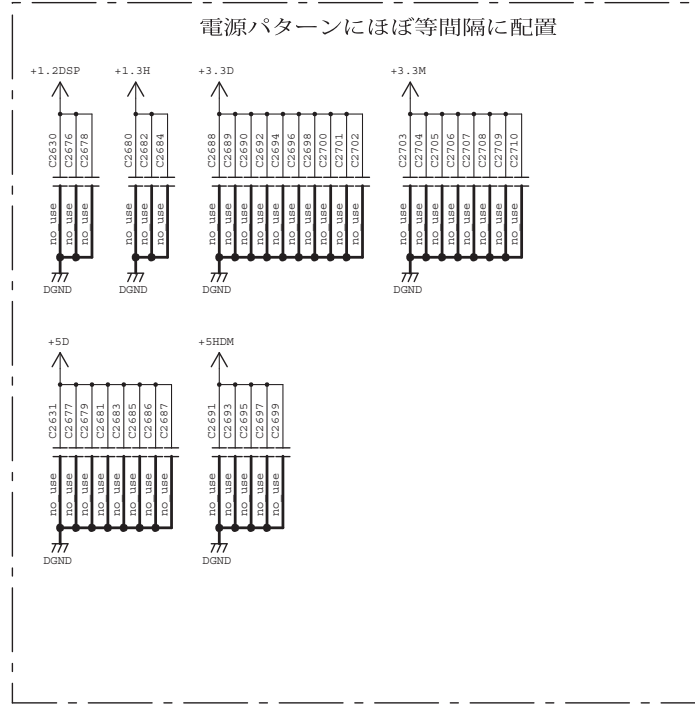
DIGITAL 4/5



| REMARKS | PARTS | NAME |
|---------|-------|--------------------------------------|
| NO MARK | ⊗ | ELECTROLYTIC CAPACITOR |
| NO MARK | ⊗ | TANTALUM CAPACITOR |
| NO MARK | ⊗ | CERAMIC CAPACITOR |
| NO MARK | ⊗ | CERAMIC TUBULAR CAPACITOR |
| NO MARK | ⊗ | POLYESTER FILM CAPACITOR |
| NO MARK | ⊗ | POLYSTYRENE FILM CAPACITOR |
| NO MARK | ⊗ | MICA CAPACITOR |
| NO MARK | ⊗ | POLYPROPYLENE FILM CAPACITOR |
| NO MARK | ⊗ | SEMI-CONDUCTIVE CERAMIC CAPACITOR |
| NO MARK | ⊗ | POLYPHENYLENE SULFIDE FILM CAPACITOR |

| REMARKS | PARTS | NAME |
|---------|-------|---------------------------------|
| NO MARK | ⊗ | CARBON FILM RESISTOR (P=5) |
| NO MARK | ⊗ | CARBON FILM RESISTOR (P=10) |
| NO MARK | ⊗ | METAL OXIDE FILM RESISTOR |
| NO MARK | ⊗ | METAL FILM RESISTOR |
| NO MARK | ⊗ | METAL PLATE RESISTOR |
| NO MARK | ⊗ | FIRE PROOF CARBON FILM RESISTOR |
| NO MARK | ⊗ | CEMENT MOLDED RESISTOR |
| NO MARK | ⊗ | SEMI-VARIABLE RESISTOR |
| NO MARK | ⊗ | CHIP RESISTOR |

Page 89 [B8]
to OPERATION (2)_CB131

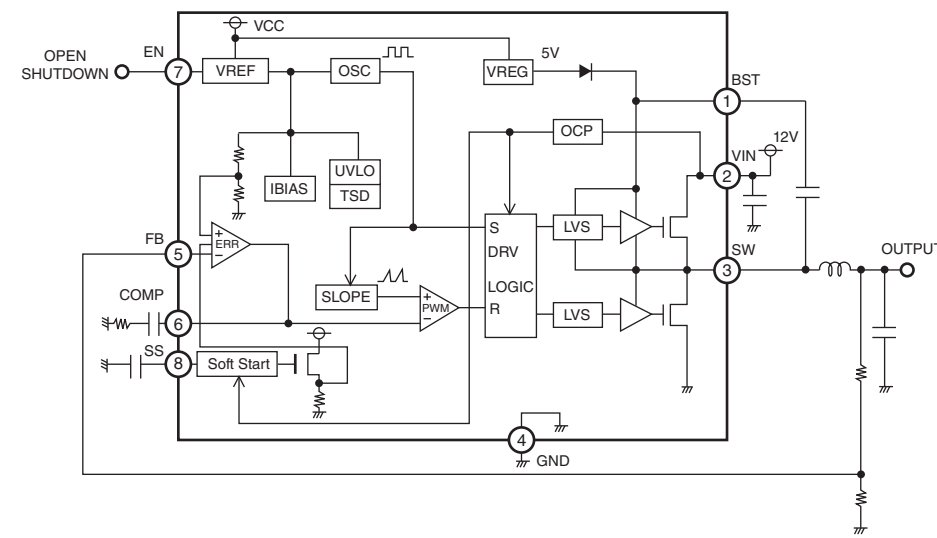


IC/CB/XL:26-
OTHER :260-

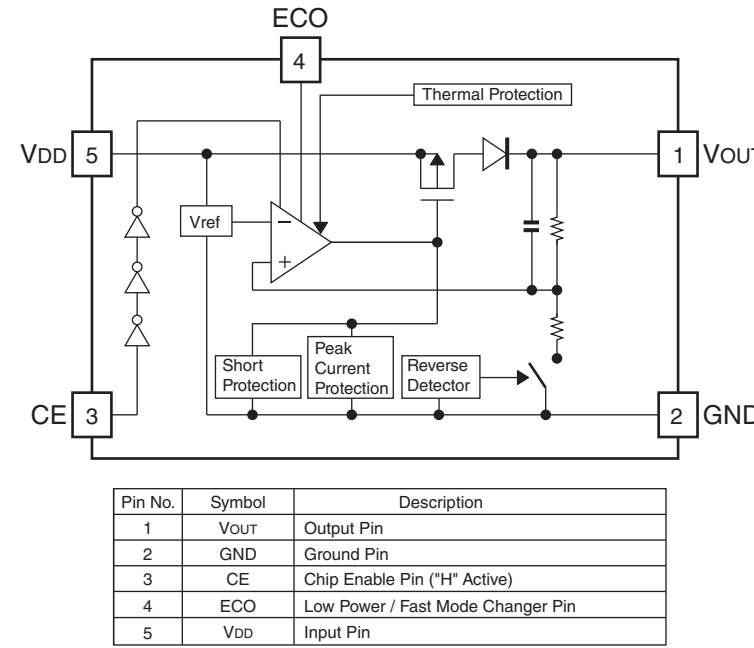
DIGITAL4:DIR&DA&POWER

| REMARKS | PARTS | NAME |
|---------|-------|---------------------------------|
| NO MARK | ⊗ | CARBON FILM RESISTOR (P=5) |
| NO MARK | ⊗ | CARBON FILM RESISTOR (P=10) |
| NO MARK | ⊗ | METAL OXIDE FILM RESISTOR |
| NO MARK | ⊗ | METAL FILM RESISTOR |
| NO MARK | ⊗ | METAL PLATE RESISTOR |
| NO MARK | ⊗ | FIRE PROOF CARBON FILM RESISTOR |
| NO MARK | ⊗ | CEMENT MOLDED RESISTOR |
| NO MARK | ⊗ | SEMI-VARIABLE RESISTOR |
| NO MARK | ⊗ | CHIP RESISTOR |

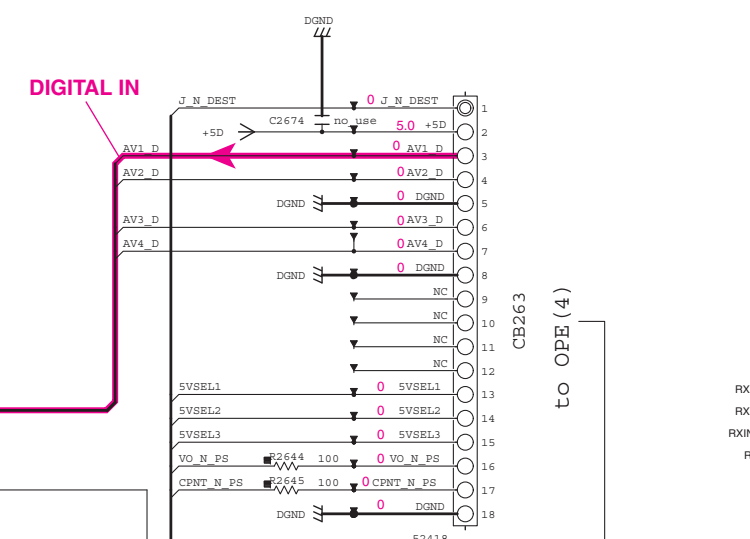
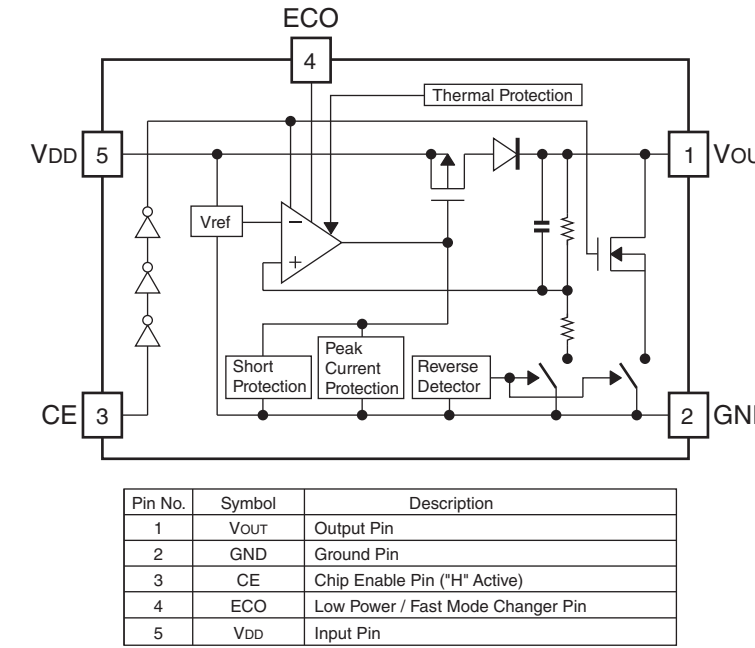
IC261, 262, 268: BD9328EFJ
1ch step-down DC/DC converter



IC263: R1191H050B-T1-FE
Voltage regulator

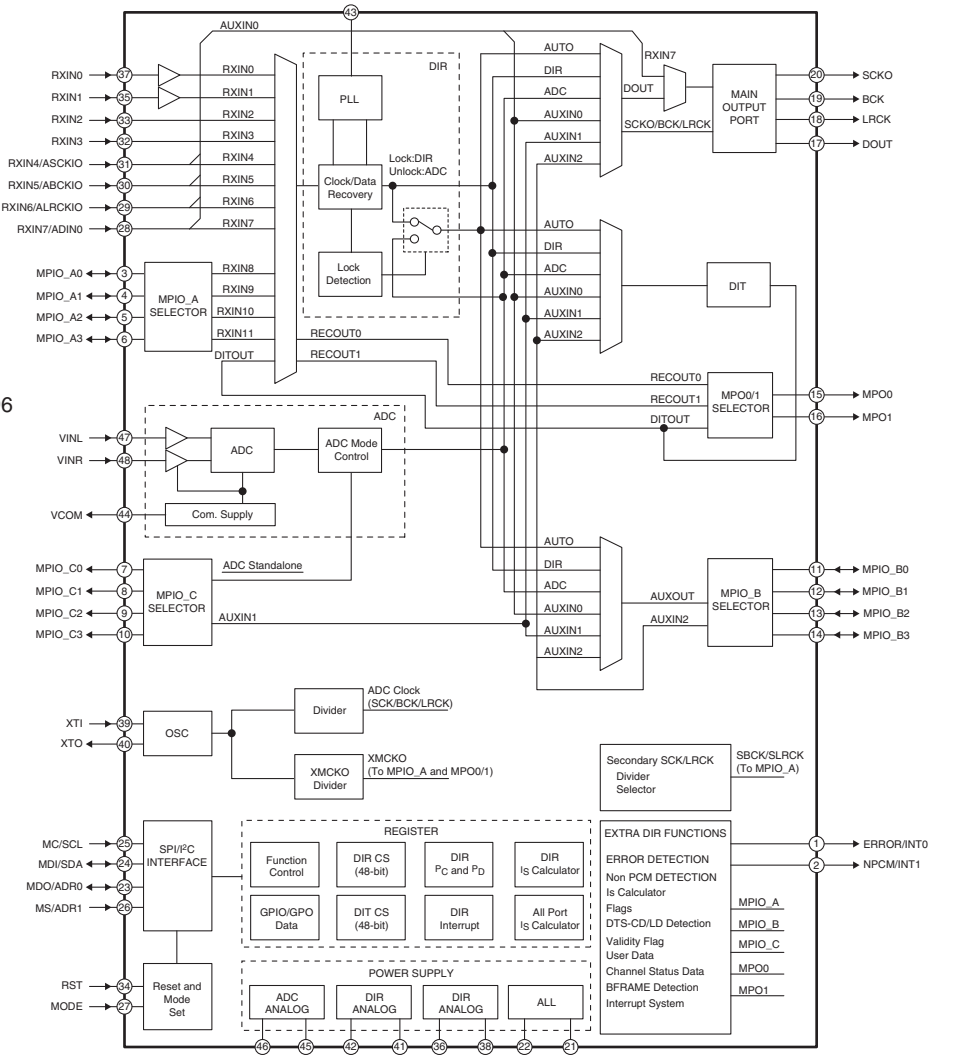


IC264: R1191H050D-T1-FE
Voltage regulator



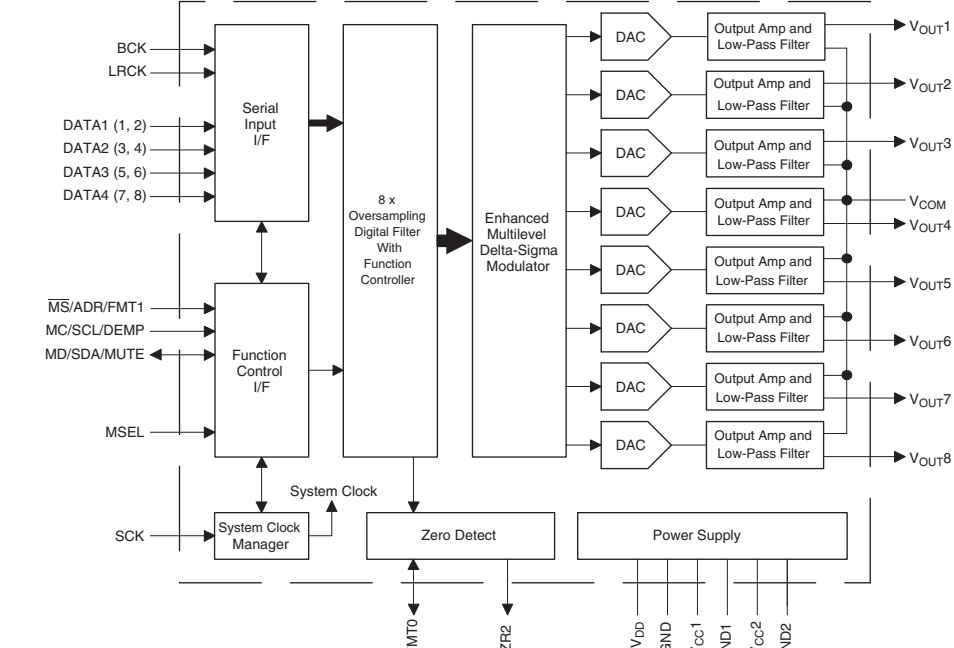
Page 89 [E4]
to OPERATION (4)_CB196

IC265: PCM9211PTR
216-kHz digital audio interface transceiver (DIX) with stereo ADC and routing

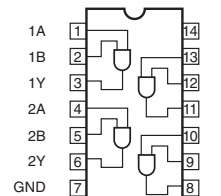


Page 89 [E3]
to OPERATION (4)_CB195

IC266: PCM1681PWPR
Audio digital-to-analog converter



IC267: TC74VHCT08AFT
Quad 2-input AND gate



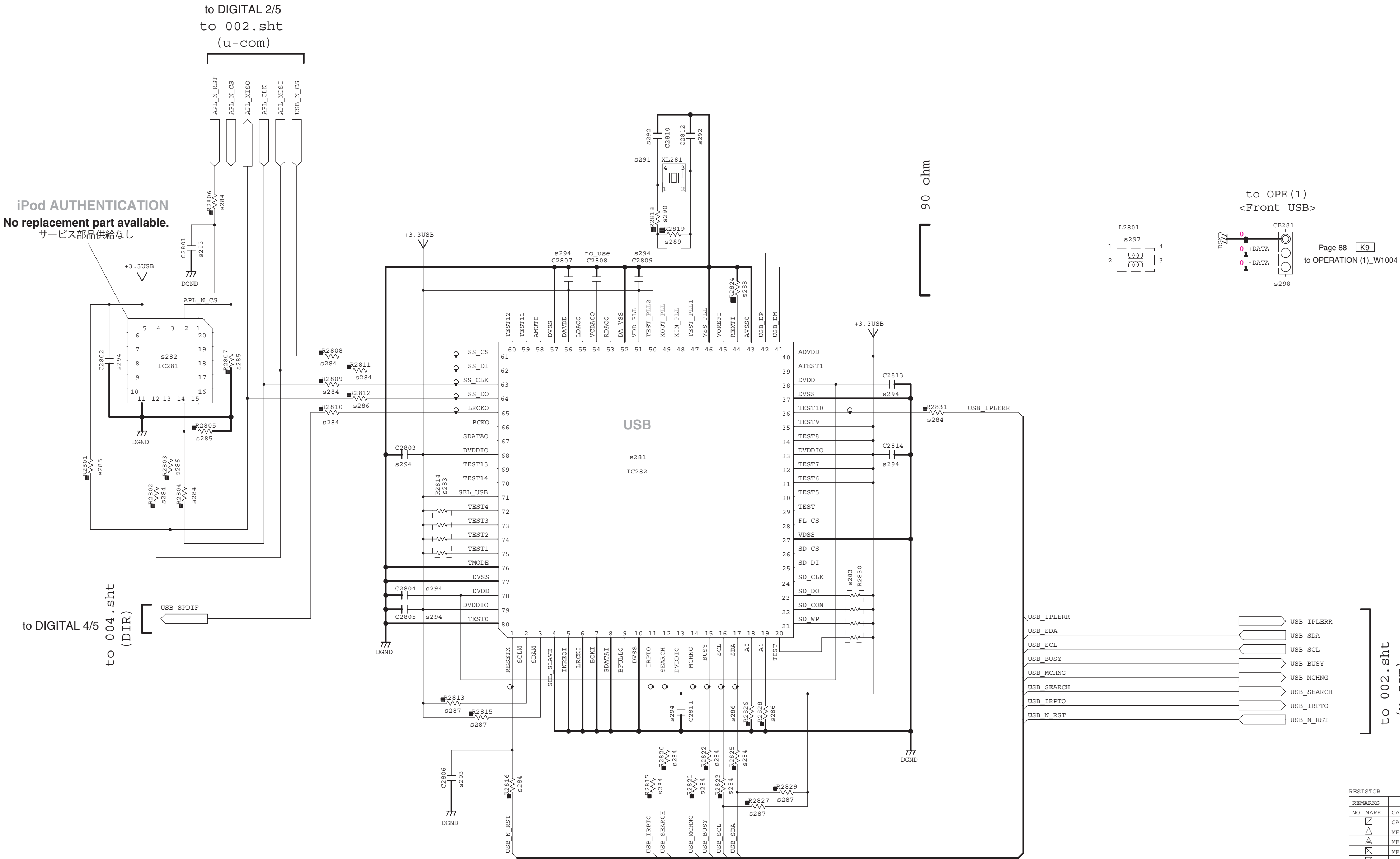
| REMARKS | PARTS | NAME |
|---------|-------|-----------------------------------|
| NO MARK | ⊗ | ELECTROLYTIC CAPACITOR |
| NO MARK | ⊗ | TANTALUM CAPACITOR |
| NO MARK | ⊗ | CERAMIC CAPACITOR |
| NO MARK | ⊗ | CERAMIC TUBULAR CAPACITOR |
| NO MARK | ⊗ | POLYESTER FILM CAPACITOR |
| NO MARK | ⊗ | POLYSTYRENE FILM CAPACITOR |
| NO MARK | ⊗ | MICA CAPACITOR |
| NO MARK | ⊗ | POLYPROPYLENE FILM CAPACITOR |
| NO MARK | ⊗ | SEMI-CONDUCTIVE CERAMIC CAPACITOR |

★ All voltages are measured with a 10MΩ/VC electronic voltmeter.
★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗 10MΩ の電圧計で測定したものです。
● Δ印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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DIGITAL 5/5

U, C, R, K, A, B, G, F, L, S, H, J models



| REMARKS | PARTS | NAME |
|---------|---------------------------------|------|
| NO MARK | CARBON FILM RESISTOR (P=5) | |
| ☑ | CARBON FILM RESISTOR (P=10) | |
| △ | METAL OXIDE FILM RESISTOR | |
| ▲ | METAL FILM RESISTOR | |
| ☒ | METAL PLATE RESISTOR | |
| ⬮ | FIRE PROOF CARBON FILM RESISTOR | |
| □ | CEMENT MOLDED RESISTOR | |
| ⊗ | SEMI VARIABLE RESISTOR | |
| ■ | CHIP RESISTOR | |

| REMARKS | PARTS | NAME |
|---------|----------------------------------|------|
| NO MARK | ELECTROLYTIC CAPACITOR | |
| ⊗ | TANTALUM CAPACITOR | |
| NO MARK | CERAMIC CAPACITOR | |
| ● | CERAMIC TUBULAR CAPACITOR | |
| ⊙ | POLYESTER FILM CAPACITOR | |
| ○ | POLYSTYRENE FILM CAPACITOR | |
| ① | MICA CAPACITOR | |
| ② | POLYPROPYLENE FILM CAPACITOR | |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR | |

NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

IC/CB/XL:281-
OHTER :2801-

DIGITAL5:USB

● 電圧は、内部抵抗 10MΩ の電圧計で測定したものです。
● △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがあります。

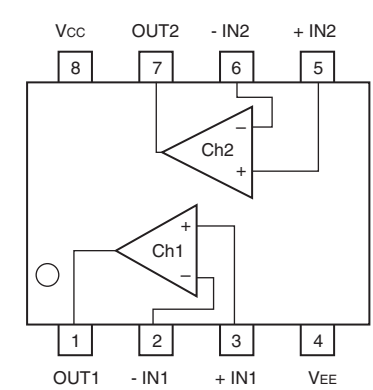
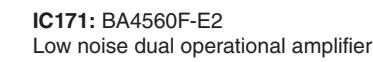
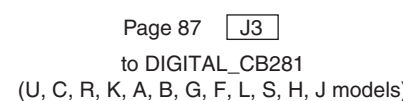
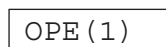
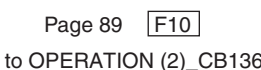
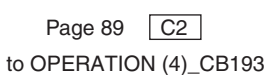
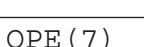
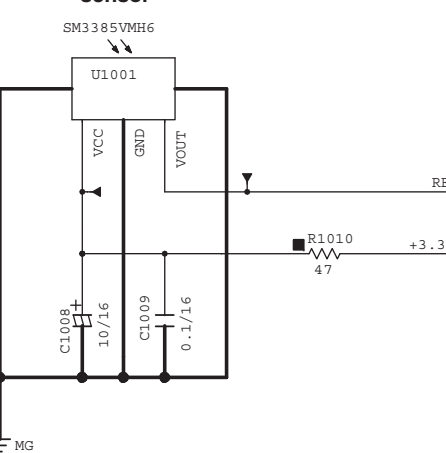
★ All voltages are measured with a 10MΩ/V DC electronic voltmeter.
★ Components having special characteristics are marked △, and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

| CAPACITOR | | PARTS NAME | | | |
|-----------|--------------------------------------|------------|--|---|--|
| REMARKS | | | | | |
| NO MARK | ELECTROLYTIC CAPACITOR | Z | | | |
| ⊗ | TANTALUM CAPACITOR | | | | |
| NO MARK | CERAMIC CAPACITOR | | | | |
| ⊙ | CERAMIC TUBULAR CAPACITOR | | | | |
| ⊙ | POLYESTER FILM CAPACITOR | | | | |
| ⊙ | POLYSTYRENE FILM CAPACITOR | | | H | |
| ⊙ | MICA CAPACITOR | | | | |
| ⊙ | POLYPROPYLENE FILM CAPACITOR | | | | |
| ⊙ | SEMI CONDUCTIVE CERAMIC CAPACITOR | | | | |
| ⊙ | POLYPHENYLENE SULFIDE FILM CAPACITOR | | | | |

OPERATION (5)

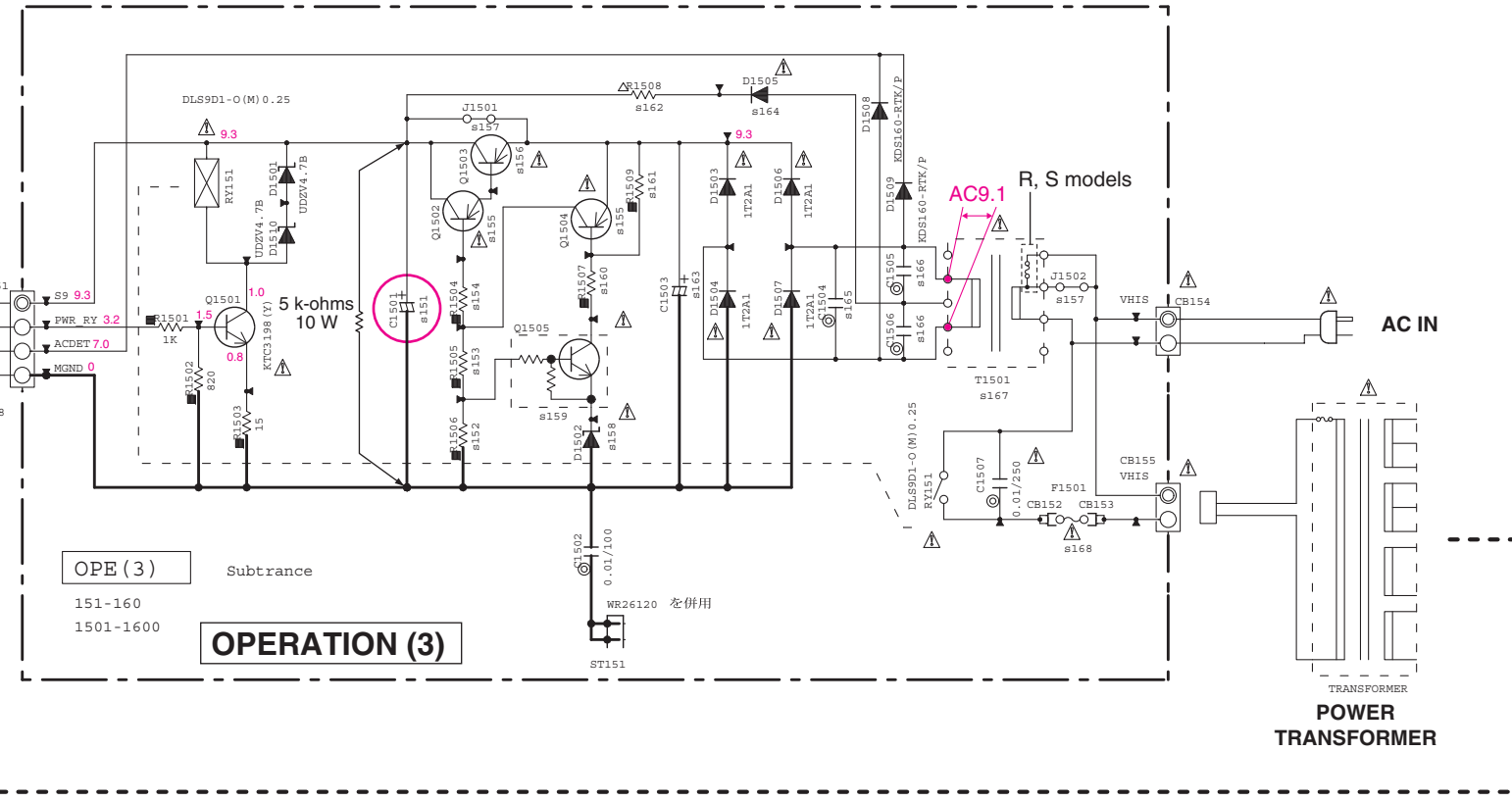
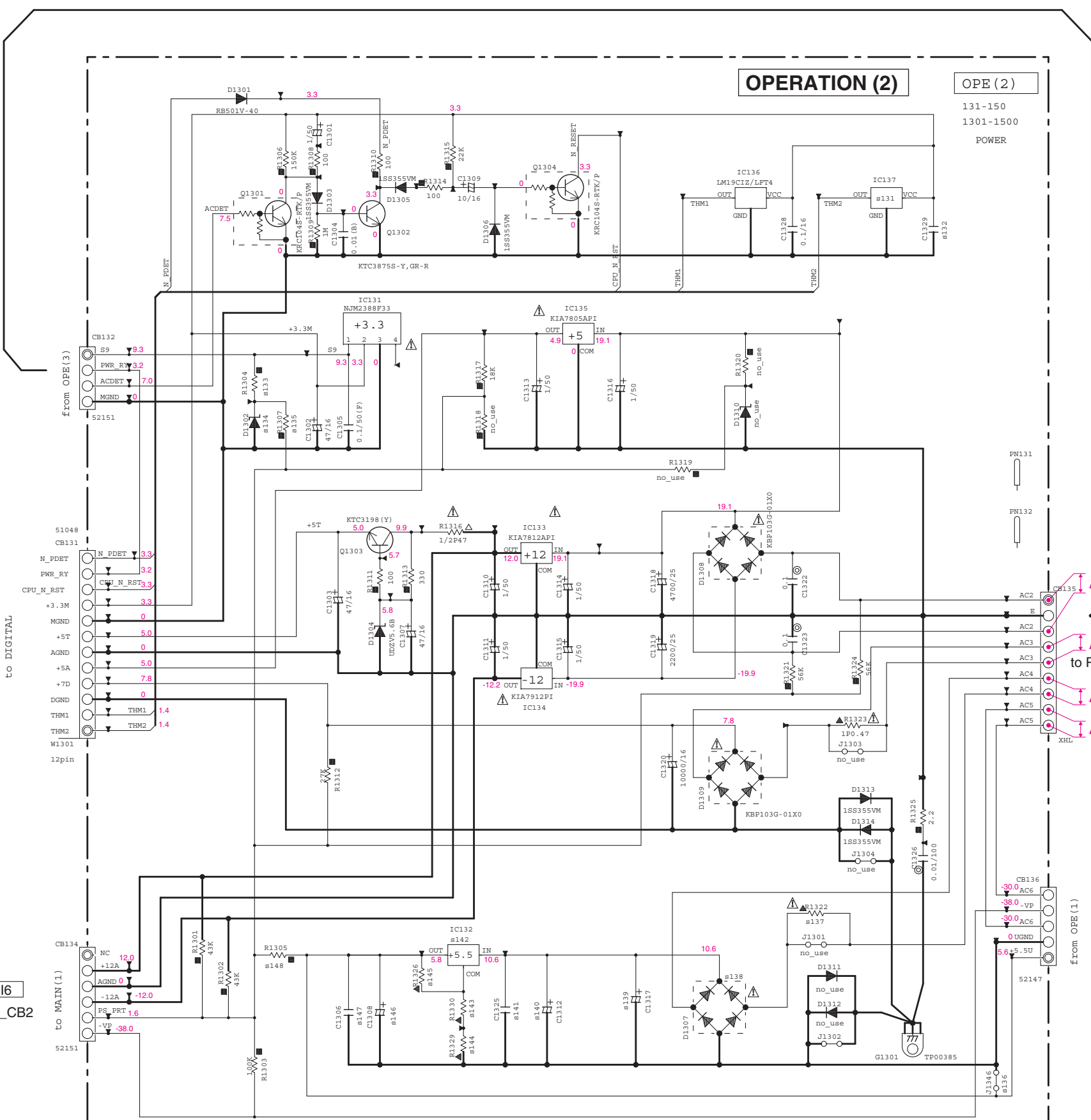
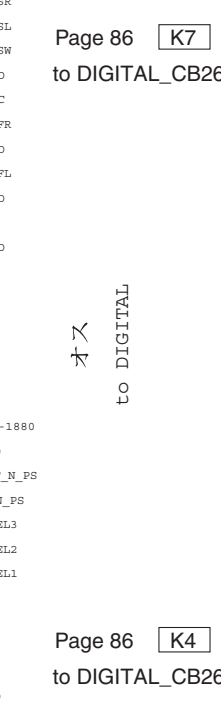
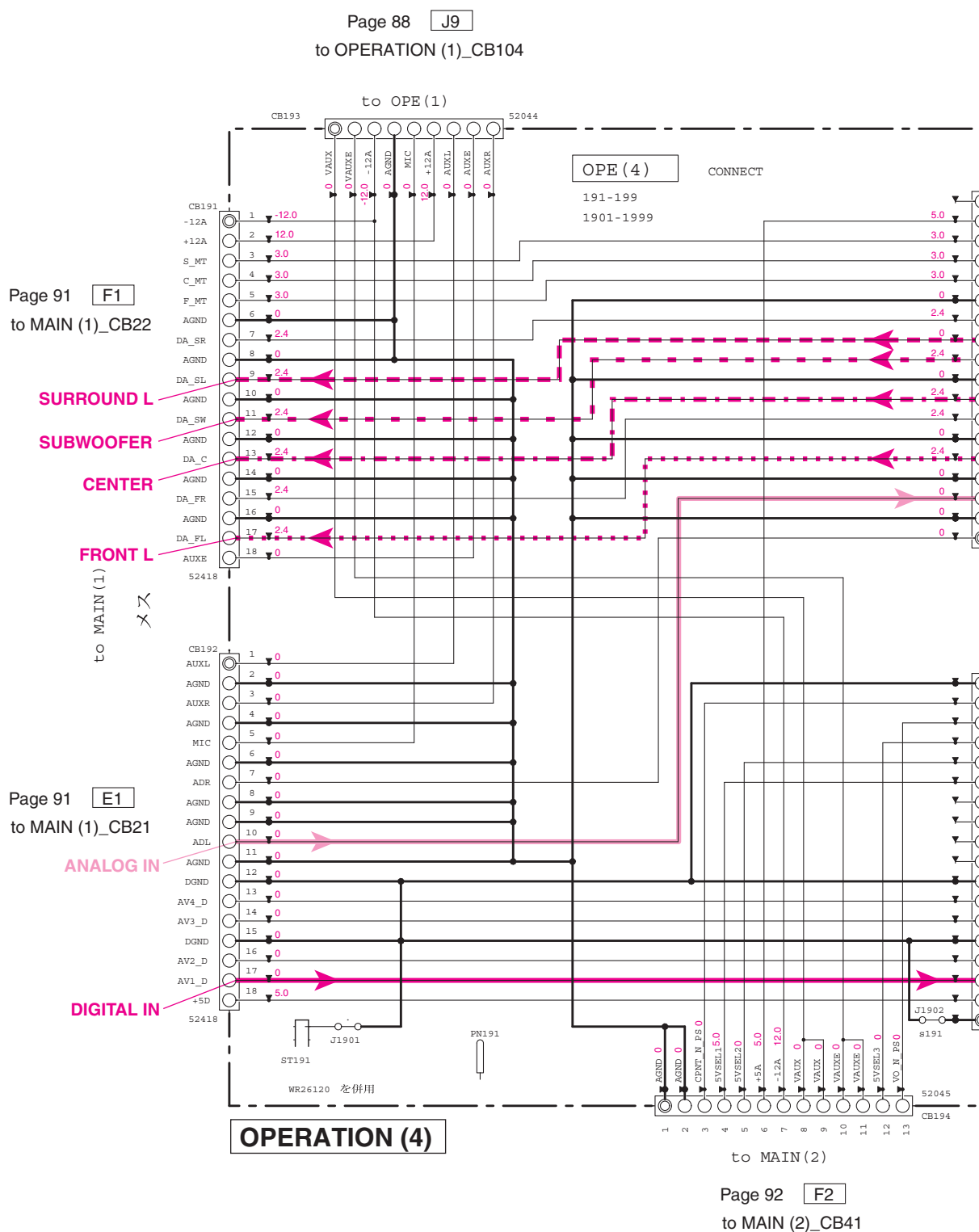


OPERATION (8)



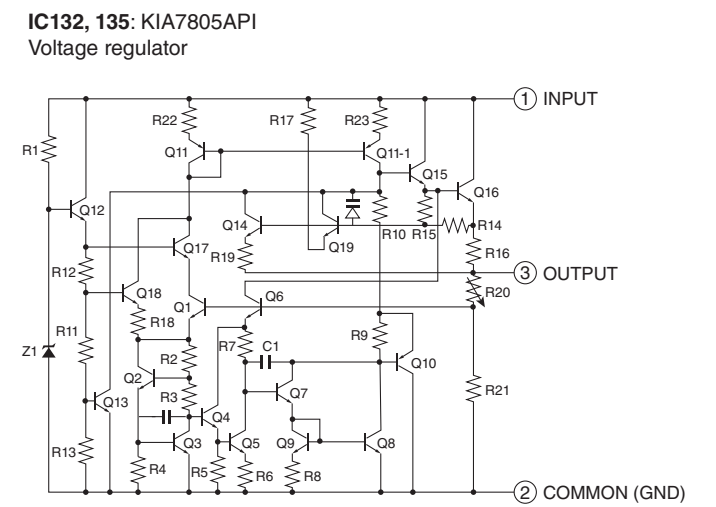
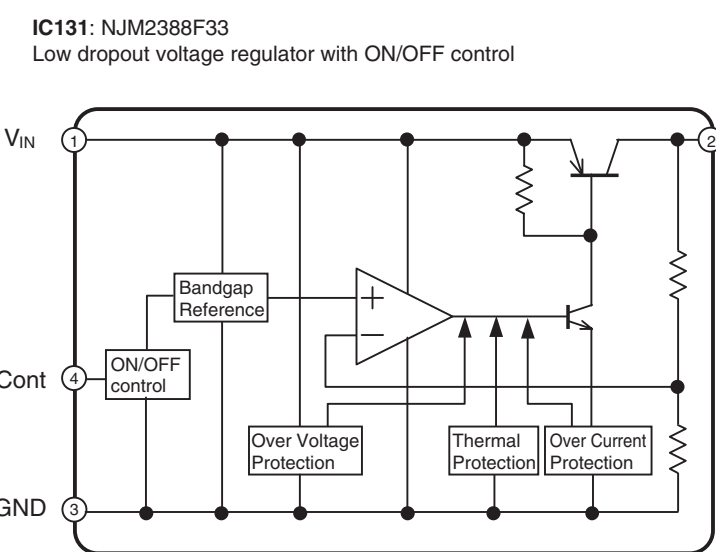
| | | | | | | | | | | | |
|-----------------------------------|----------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|
| | 0 Ω | + 1.0 kΩ | + 1.0 kΩ | + 1.5 kΩ | + 1.5 kΩ | + 2.2 kΩ | + 3.3 kΩ | + 4.7 kΩ | (22 kΩ + 33 kΩ) | + 22 kΩ | + 33 kΩ |
| Detected voltage value at 124 pin | 0 ~ 0.15 V | 0.15 ~ 0.42 V | 0.43 ~ 0.70 V | 0.71 ~ 0.97 V | 0.98 ~ 1.24 V | 1.25 ~ 1.53 V | 1.54 ~ 1.84 V | 1.84 ~ 2.10 V | 2.11 ~ 2.33 V | 2.34 ~ 2.54 V | 2.55 ~ 2.71 V |
| A/D value
(3.3V÷255) | 0 ~ 11 | 12 ~ 32 | 33 ~ 54 | 55 ~ 75 | 76 ~ 96 | 97 ~ 119 | 12 ~ 142 | 143 ~ 163 | 164 ~ 181 | 182 ~ 197 | 198 ~ 229 |
| Key name
(KEY2: 124 pin) | SCENE
RADIO | SCENE
CD | SCENE
TV | SCENE
BD/DVD | PROGRAM
> | PROGRAM
< | INPUT
> | INPUT
< | — | Φ (Power) | tone
CONTROL |

- 88



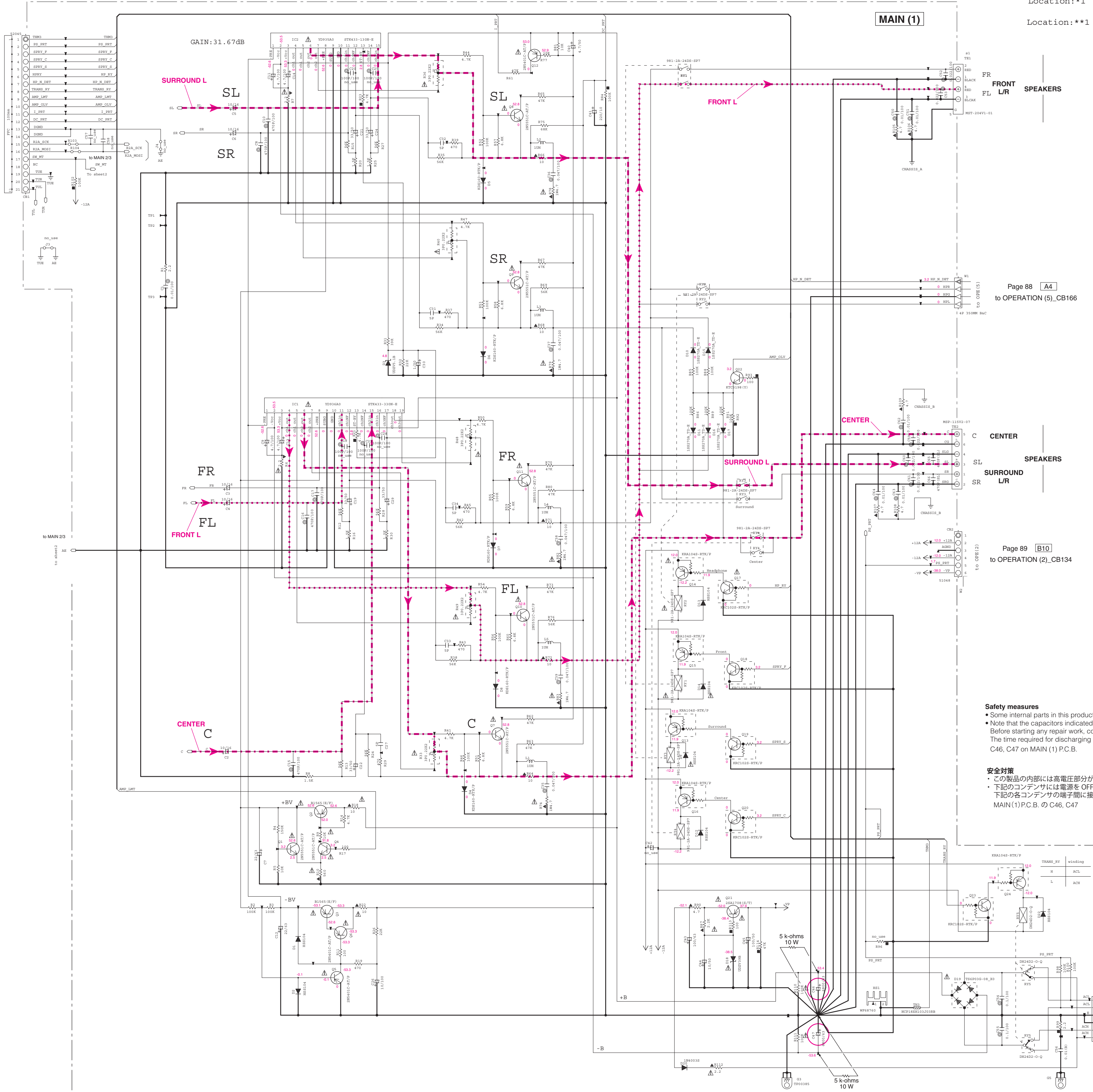
| Destination Part List | LOC | J | UC | R8 | KARUGLPR | T |
|-----------------------|--------|----------------|----------------|----------------|----------------|---|
| #101 | CB105 | NO48020 | NO48020 | NO48020 | NO48020 | X |
| #102 | CI034 | 0000010 | 0000010 | 0000010 | 0000010 | X |
| #103 | CI012 | NO75810 | NO75810 | NO75810 | NO75810 | X |
| #104 | DI107 | NO78130 | NO78130 | NO78130 | NO78130 | X |
| #105 | IC102 | RI1720010-71-P | RI1720010-71-P | RI1720010-71-P | RI1720010-71-P | X |
| #106 | RI1018 | RF35610 | RF35610 | RF35610 | RF35610 | X |
| #107 | RI1021 | RF35413 | RF35413 | RF35413 | RF35413 | X |
| #108 | RI1015 | RO35720 | RO35720 | RO35720 | RO35720 | X |
| #109 | CI102 | UM9810 | UM9810 | UM9810 | UM9810 | X |
| #110 | RI1014 | RF35610 | RF35610 | RF35610 | RF35610 | X |
| #111 | SI101 | VA1490 | VA1490 | VA1490 | VA1490 | X |
| #112 | RI1004 | SA14280 | SA14280 | SA14280 | SA14280 | X |
| #113 | PR102 | VM97750 | VM97750 | VM97750 | VM97750 | X |
| #114 | IC137 | X | YAH140 | X | X | X |
| #115 | CI129 | X | UM93510 | X | X | X |
| #116 | RI1304 | X | X | X | X | X |
| #117 | DI1302 | X | X | X | X | X |
| #118 | RI1307 | X | X | X | X | X |
| #119 | CI137 | UM97361 | UM97361 | UM97361 | UM97361 | X |
| #120 | CI132 | 4700/14 | 4700/14 | 4700/14 | 4700/14 | X |
| #121 | CI132 | UM94410 | UM94410 | UM94410 | UM94410 | X |
| #122 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #123 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #124 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #125 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #126 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #127 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #128 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #129 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #130 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #131 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #132 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #133 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #134 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #135 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #136 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #137 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #138 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #139 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #140 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #141 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #142 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #143 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #144 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #145 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #146 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #147 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #148 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #149 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #150 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #151 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #152 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #153 | CI125 | US13513 | US13513 | US13513 | US13513 | X |
| #154 | CI125 | US13513 | US13513 | US13513 | US13513 | X |

| LOC | J | UC | R8 | KARUGLPR | T |
|------|-------|----|----|----------|---|
| #155 | Q1502 | X | X | WB2870 | X |
| #156 | Q1504 | X | X | WB2870 | X |
| #157 | Q1505 | X | X | WB2870 | X |
| #158 | Q1506 | X | X | WB2870 | X |
| #159 | Q1507 | X | X | WB2870 | X |
| #160 | Q1508 | X | X | WB2870 | X |
| #161 | Q1509 | X | X | WB2870 | X |
| #162 | Q1510 | X | X | WB2870 | X |
| #163 | Q1511 | X | X | WB2870 | X |
| #164 | Q1512 | X | X | WB2870 | X |
| #165 | Q1513 | X | X | WB2870 | X |
| #166 | Q1514 | X | X | WB2870 | X |
| #167 | Q1515 | X | X | WB2870 | X |
| #168 | Q1516 | X | X | WB2870 | X |
| #169 | Q1517 | X | X | WB2870 | X |
| #170 | Q1518 | X | X | WB2870 | X |
| #171 | Q1519 | X | X | WB2870 | X |
| #172 | Q1520 | X | X | WB2870 | X |
| #173 | Q1521 | X | X | WB2870 | X |
| #174 | Q1522 | X | X | WB2870 | X |
| #175 | Q1523 | X | X | WB2870 | X |
| #176 | Q1524 | X | X | WB2870 | X |
| #177 | Q1525 | X | X | WB2870 | X |
| #178 | Q1526 | X | X | WB2870 | X |
| #179 | Q1527 | X | X | WB2870 | X |
| #180 | Q1528 | X | X | WB2870 | X |
| #181 | Q1529 | X | X | WB2870 | X |
| #182 | Q1530 | X | X | WB2870 | X |
| #183 | Q1531 | X | X | WB2870 | X |
| #184 | Q1532 | X | X | WB2870 | X |
| #185 | Q1533 | X | X | WB2870 | X |
| #186 | Q1534 | X | X | WB2870 | X |
| #187 | Q1535 | X | X | WB2870 | X |
| #188 | Q1536 | X | X | WB2870 | X |
| #189 | Q1537 | X | X | WB2870 | X |
| #190 | Q1538 | X | X | WB2870 | X |
| #191 | Q1539 | X | X | WB2870 | X |
| #192 | Q1540 | X | X | WB2870 | X |
| #193 | Q1541 | X | X | WB2870 | X |
| #194 | Q1542 | X | X | WB2870 | X |
| #195 | Q1543 | X | X | WB2870 | X |
| #196 | Q1544 | X | X | WB2870 | X |
| #197 | Q1545 | X | X | WB2870 | X |
| #198 | Q1546 | X | X | WB2870 | X |
| #199 | Q1547 | X | X | WB2870 | X |
| #200 | Q1548 | X | X | WB2870 | X |



MAIN 1/3

Page 84 [G2]
to DIGITAL_CB222



MAIN (1)

Location:TP1 ~ TP200

Location:*1 ~ *200

Location:**1 ~ **20

MAIN (1)

FR FRONT
FL L/R SPEAKERS

Page 88 [A4]
to OPERATION (5)_CB166

Page 89 [B10]
to OPERATION (2)_CB134

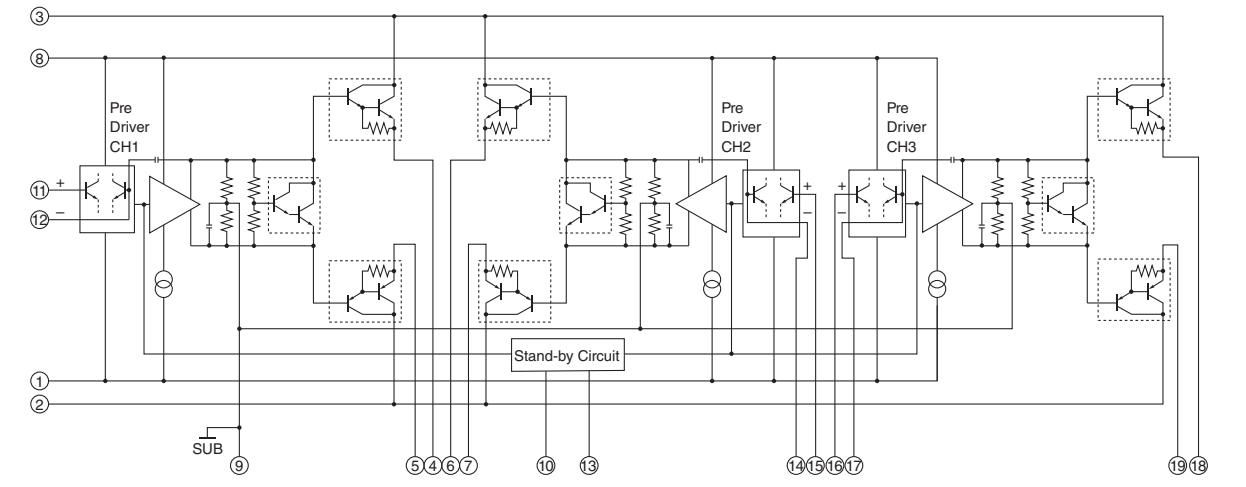
Safety measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each. C46, C47 on MAIN (1) P.C.B.

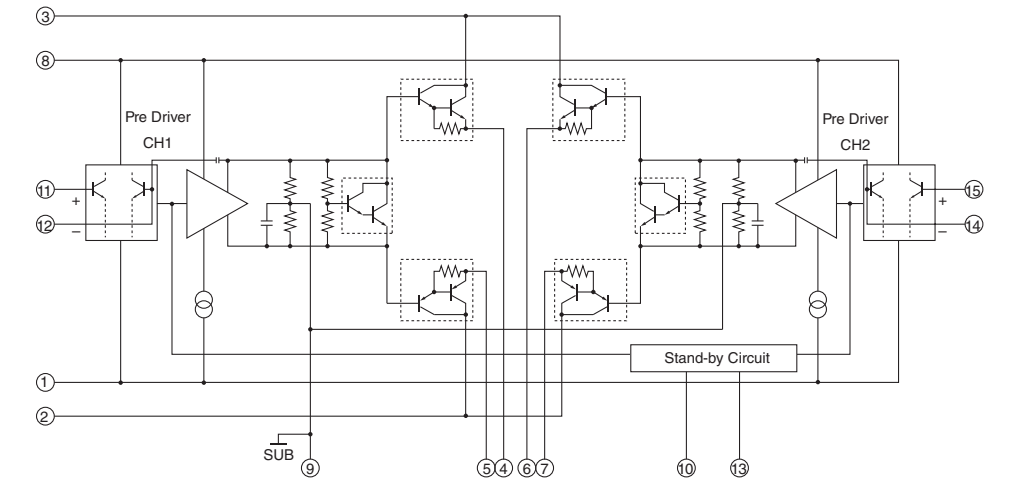
安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗 (5 kΩ/10 W) を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。MAIN (1) P.C.B. の C46, C47

IC1: STK433-330N-E
3-channel AF power amplifier, stand-by circuit built-in



IC2: STK433-130N-E
2-channel AF power amplifier, stand-by circuit built-in



| RESISTOR | REMARKS | PARTS NAME |
|----------|---------------------------------|------------|
| NO MARK | CARBON FILM RESISTOR (P=5) | |
| □ | CARBON FILM RESISTOR (P=10) | |
| △ | METAL OXIDE FILM RESISTOR | |
| ▲ | METAL FILM RESISTOR | |
| □ | METAL PLATE RESISTOR | |
| □ | FIRE PROOF CARBON FILM RESISTOR | |
| □ | CEMENT MOLDED RESISTOR | |
| □ | SEMI VARIABLE RESISTOR | |
| □ | CHIP RESISTOR | |

| CAPACITOR | REMARKS | PARTS NAME |
|-----------|--------------------------------------|------------|
| NO MARK | ELECTROLYTIC CAPACITOR | |
| □ | TANTALUM CAPACITOR | |
| NO MARK | CERAMIC CAPACITOR | |
| ● | CERAMIC TUBULAR CAPACITOR | |
| ○ | POLYESTER FILM CAPACITOR | |
| ○ | POLYSTYRENE FILM CAPACITOR | |
| ○ | MICA CAPACITOR | |
| ○ | POLYPROPYLENE FILM CAPACITOR | |
| ○ | SEMICONDUCTIVE CERAMIC CAPACITOR | |
| ○ | POLYPHENYLENE SULFIDE FILM CAPACITOR | |

NOTICE (model)

(J) JAPAN
(U) U.S.A
(C) CANADA
(R) GENERAL
(T) CHINA
(K) KOREA
(A) AUSTRALIA
(G) BRITISH
(L) EUROPE
(S) SINGAPORE
(E) SOUTH EUROPE
(V) TAIWAN
(P) RUSSIAN
(B) LATIN AMERICA
(H) BRAZIL
(H) THAI

- All voltages are measured with a 10MΩ/V DC electronic voltmeter.
- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.

- 電圧は、内部抵抗 10MΩ の電圧計で測定したものです。
- △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 本回路図は標準回路図です。改良のため予告なく変更することがあります。

MAIN 2/3

Page 89 [B4] to OPERATION (4)_CB192

Page 89 [B2] to OPERATION (4)_CB191

| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| △ | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| △ | METAL FILM RESISTOR |
| △ | METAL PLATE RESISTOR |
| △ | FIRE PROOF CARBON FILM RESISTOR |
| △ | CEMENT MOUNTED RESISTOR |
| △ | SLIM VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

| REMARKS | PARTS NAME |
|---------|----------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| ⊗ | CERAMIC CAPACITOR |
| ⊗ | CERAMIC TUBULAR CAPACITOR |
| ⊗ | POLYESTER FILM CAPACITOR |
| ⊗ | POLYSTYRENE FILM CAPACITOR |
| ⊗ | MICA CAPACITOR |
| ⊗ | POLYPROPYLENE FILM CAPACITOR |
| ⊗ | SEMICONDUCTIVE CERAMIC CAPACITOR |

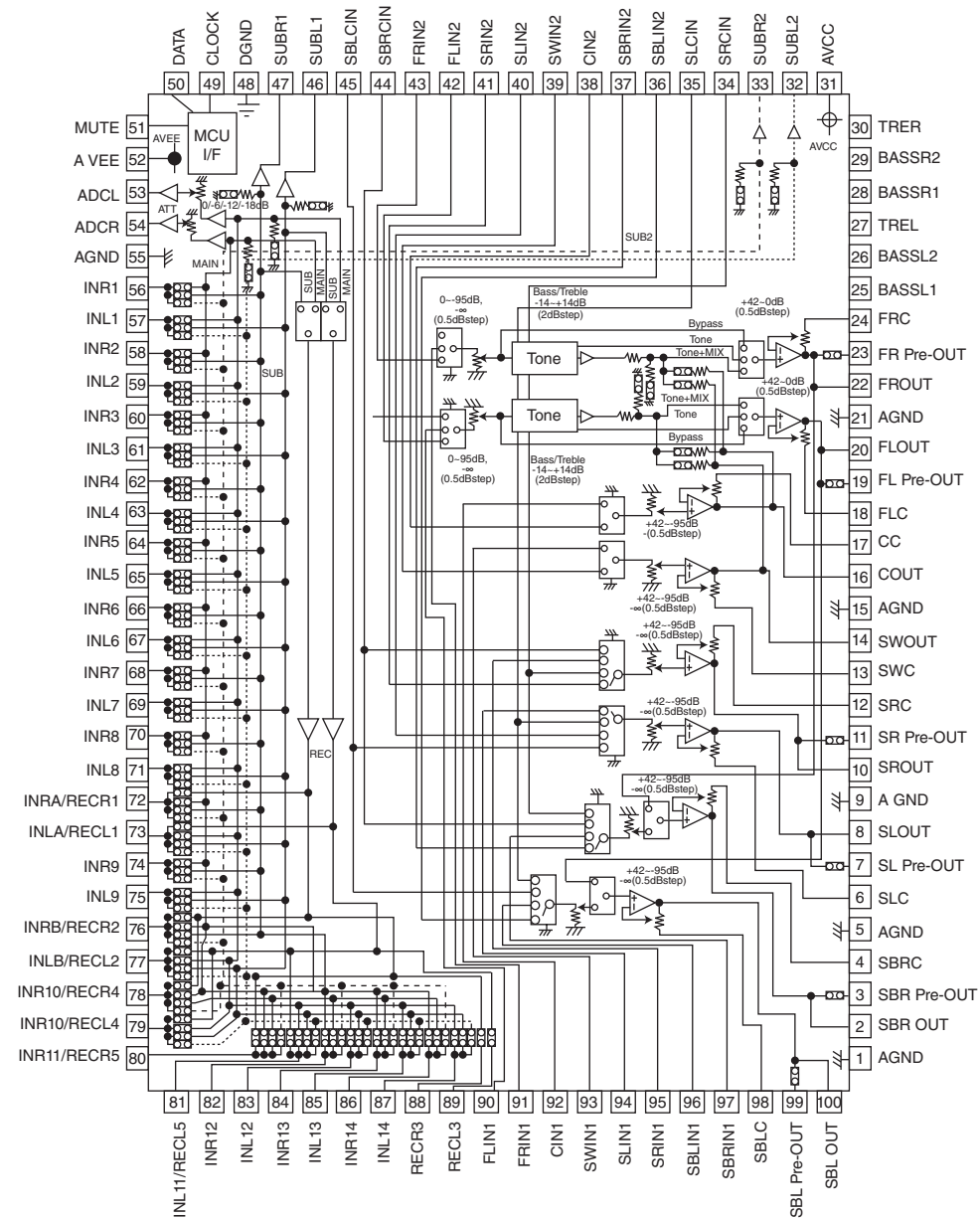
NOTICE (model)

(J)..... JAPAN
(U)..... U.S.A.
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(S)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(H)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(9)..... LATVIAN AMERICA
(S)..... SWEDEN
(H)..... THAI

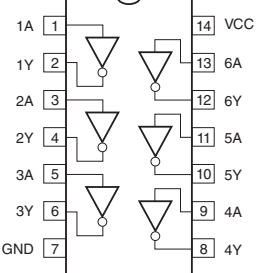
MAIN (1)

Location:TP200 ~
Location:*201 ~*400
Location:**21 ~**40

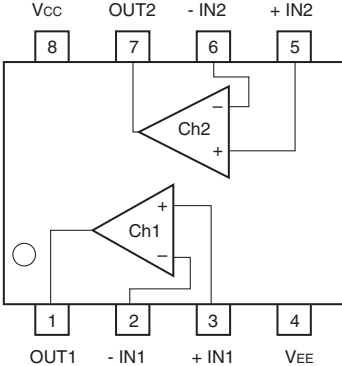
IC21: R2A15220FP
8-channel electronic volume with 11 input selector and tone control



IC22: TC74VHC04FT
Hex inverters



IC23-25, 27: BA4560F-E2
Low noise dual operational amplifier



- ★ All voltages are measured with a 10MΩ/V DC electronic voltmeter.
- ★ Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

- 電圧は、内部抵抗 10MΩの電圧計で測定したものです。
- △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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MAIN 3/3

MONITOR
OUT

COMPONENT
VIDEO

AV 1

AV 2

AV 3

AV 4

AV 5

VIDEO

MONITOR
OUT

MAIN (2)

MAIN (2)

VIDEO

Location:TP400 ~
Location:*401 ~*500
Location:**40 ~**50

MAIN (3)

VOLTAGE SELECTOR
dest RS Only

Location:TP500 ~
Location:*501 ~
Location:**51 ~

MAIN (3) R, S models

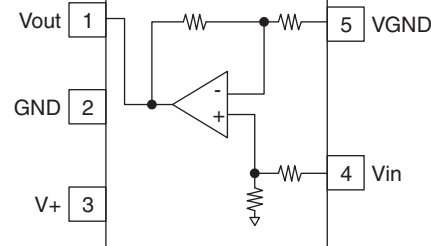
VOLTAGE
SELECTOR

MAIN (4)

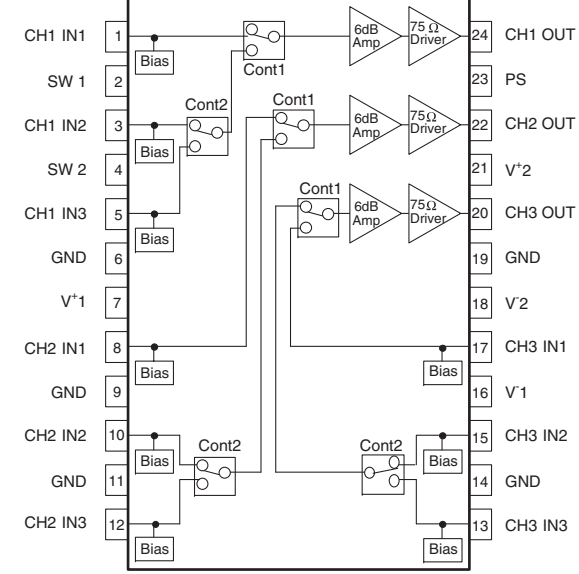
MAIN (4)

GUARD

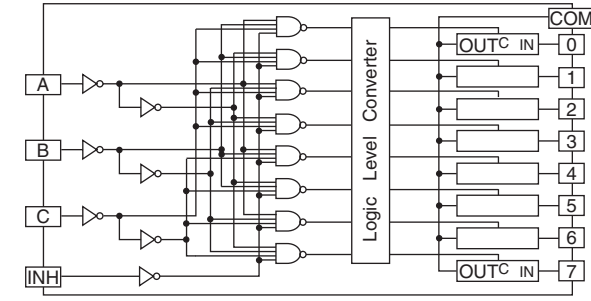
IC40: NJM2505A
Single isolation amplifier



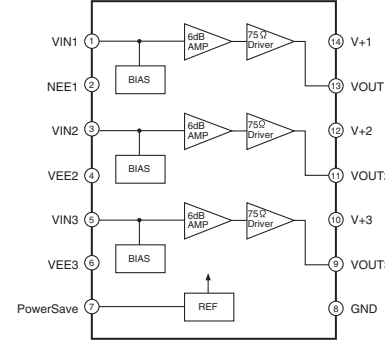
IC41: NJM2586AM (TE2)
Wide band 3-input 1-output 3-circuit video amplifier



IC42: TC74HC4051AFEL
8-channel analog multiplexer/demultiplexer



IC43: NJM2581M
Video amplifier



| REMARKS | PARTS | NAME |
|---------|-------------------|----------------------|
| NO MARK | CARBON | FILM RESISTOR (P=5) |
| △ | CARBON | FILM RESISTOR (P=10) |
| △ | METAL OXIDE | FILM RESISTOR |
| △ | METAL | FILM RESISTOR |
| △ | METAL PLATE | RESISTOR |
| △ | FIRE PROOF CARBON | FILM RESISTOR |
| △ | CEMENT | MOLDED RESISTOR |
| △ | SEMI-VARIABLE | RESISTOR |
| △ | CHIP | RESISTOR |

| REMARKS | PARTS | NAME |
|---------|-----------------|-------------------|
| NO MARK | ELECTROLYTIC | CAPACITOR |
| △ | TANTALUM | CAPACITOR |
| NO MARK | CERAMIC | CAPACITOR |
| △ | CERAMIC | TUBULAR CAPACITOR |
| △ | POLYESTER | FILM CAPACITOR |
| △ | POLYSTYRENE | FILM CAPACITOR |
| △ | MICA | CAPACITOR |
| △ | POLYPROPYLENE | FILM CAPACITOR |
| △ | SEMI-CONDUCTIVE | CERAMIC CAPACITOR |

NOTICE (model)

(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(K)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(S)..... SOUTH EUROPE
(V)..... TAIWAN
(P)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(K)..... THAI

| DESTINATION PART LIST | QCPA | RS | RS0LPR |
|-----------------------|------|--------------|--------------|
| #1 | TEL | MST-204V1-01 | MST-204V1-01 |
| #41 | CB42 | W01940 | X |
| #51 | CB51 | X | X |
| #52 | CB51 | X | X |

* All voltages are measured with a 10MΩ/V DC electronic voltmeter.
* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

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● △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがあります。

■ REPLACEMENT PARTS LIST

● ELECTRICAL COMPONENT PARTS

WARNING

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Δ 印のある部分は、安全確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 部品価格ランクは、予告なく変更することがあります。

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

| | | | |
|----------------|----------------------------------|----------------|---|
| C.A.EL.CHP | : CHIP ALUMI.ELECTROLYTIC CAP | LED.CHP | : CHIP LED |
| C.CE | : CERAMIC CAP | LED.DSPLY | : LED DISPLAY |
| C.CE.ARRAY | : CERAMIC CAP ARRAY | LED.INFRD | : LED,INFRARED |
| C.CE.CHP | : CHIP CERAMIC CAP | PHOT.CPL | : PHOTO COUPLER |
| C.CE.M.CHP | : CHIP MULTILAYER CERAMIC CAP | PHOT.INTR | : PHOTO INTERRUPTER |
| C.CE.SAFTY | : RECOGNIZED CERAMIC CAP | PHOT.RFLCT | : PHOTO REFLECTOR |
| C.CE.TUBLR | : CERAMIC TUBULAR CAP | PHOT.TR | : PHOTO TRANSISTOR |
| C.CE.SMI | : SEMI CONDUCTIVE CERAMIC CAP | PIN.TEST | : PIN,TEST POINT |
| C.EL | : ELECTROLYTIC CAP | PTC.THERMISTOR | : POSITIVE TEMPERATURE COEFFICIENT THERMISTOR |
| C.EL.BP | : BIPOLAR ELECTROLYTIC CAP | R.ANTI.SURGE | : FIXED ANTI SURGE RESISTOR |
| C.EL.CHP | : CHIP ELECTROLYTIC CAP | R.ARRAY | : RESISTOR ARRAY |
| C.MICA | : MICA CAP | R.CAR. | : CARBON RESISTOR |
| C.ML.FLM | : MULTILAYER FILM CAP | R.CAR.CHP | : CHIP RESISTOR |
| C.MP | : METALLIZED POLYESTER FILM CAP | R.CAR.FP | : FLAME PROOF CARBON RESISTOR |
| C.MYLAR | : MYLAR FILM CAP | R.CEMENT | : CEMENT RESISTOR |
| C.MYLAR.ML | : MULTILAYER MYLAR FILM CAP | R.FUS | : FUSIBLE RESISTOR |
| C.NIOB.OXD | : NIOBIUM OXIDE CAP | R.MTL.CHP | : CHIP METAL FILM RESISTOR |
| C.PAPER | : PAPER CAPACITOR | R.MTL.FLM | : METAL FILM RESISTOR |
| C.PLS | : POLYSTYRENE FILM CAP | R.MTL.OXD | : METAL OXIDE FILM RESISTOR |
| C.POL | : POLYESTER FILM CAP | R.MTL.PLAT | : METAL PLATE RESISTOR |
| C.PP | : POLYPROPYLENE FILM CAP | RSNR.CE | : CERAMIC RESONATOR |
| C.PP.CHP | : CHIP POLYPROPYLENE FILM CAP | RSNR.CRYS | : CRYSTAL RESONATOR |
| C.TNTL | : TANTALUM CAP | SCR.BND.HD | : BIND HEAD B-TIGHT SCREW |
| C.TNTL.CHP | : CHIP TANTALUM CAP | SCR.TERM | : SCREW TERMINAL |
| C.TRIM | : TRIMMER CAP | SCR.TR | : SCREW,TRANSISTOR |
| CN | : CONNECTOR | SURG.PRTCT | : SURGE PROTECTOR |
| CN.BS.PIN | : CONNECTOR,BASE PIN | SUPRT.PCB | : P.C.B. SUPPORT |
| CN.CANNON | : CONNECTOR,CANNON | SW.LEVER | : LEVER SWITCH |
| CN.DIN | : CONNECTOR,DIN | SW.MICRO | : MICRO SWITCH |
| CN.FLAT | : CONNECTOR,FLAT CABLE | SW.LEAF | : LEAF SWITCH |
| CN.FFC | : CONNECTOR,FLEXIBLE FLAT CABLE | SW.PUSH | : PUSH SWITCH |
| CN.HDMI | : HDMI CONNECTOR | SW.RT | : ROTARY SWITCH |
| CN.PHOTO.R | : PHOTO FIBER SENSOR,RECEIVED | SW.RT.ENC | : ROTARY ENCODER |
| CN.PHOTO.T | : PHOTO FIBER SENSOR,TRANSMITTED | SW.RT.MTR | : ROTARY SWITCH WITH MOTOR |
| DIODE.ARRAY | : DIODE ARRAY | SW.SLIDE | : SLIDE SWITCH |
| DIODE.BRG | : DIODE BRIDGE | SW.TACT | : TACT SWITCH |
| DIODE.CHP | : CHIP DIODE | TERM.SP | : SPEAKER TERMINAL |
| DIODE.VAR | : VARACTOR DIODE | TERM.WRAP | : WRAPPING TERMINAL |
| DIODE.ZENR | : ZENER DIODE | THRMST.CHP | : CHIP THERMISTOR |
| DIODE.Z.CHP | : CHIP ZENER DIODE | TR | : TRANSISTOR |
| DIODE.SCHOTTKY | : SCHOTTKY BARRIER DIODE | TR.CHP | : CHIP TRANSISTOR |
| DIODE.PHOT | : PHOTO DIODE | TR.DGT | : DIGITAL TRANSISTOR |
| FER.BEAD | : FERRITE BEADS | TR.DGT.CHP | : CHIP DIGITAL TRANSISTOR |
| FER.CORE | : FERRITE CORE | TR.PAIR | : PAIR TRANSISTOR |
| FET.CHP | : CHIP FET | TRANS | : TRANSFORMER |
| FL.DSPLY | : FLUORESCENT DISPLAY | TRANS.PULS | : PULSE TRANSFORMER |
| FLTR.CE | : CERAMIC FILTER | TRANS.PWR | : POWER TRANSFORMER |
| FLTR.COMB | : COMB FILTER MODULE | VARISTOR.CHP | : CHIP VARISTOR |
| FLTR.LC.RF | : LC FILTER,EMI | VOLT.SELCT | : VOLTAGE SELECTOR |
| FUSE.CHP | : CHIP FUSE | VR | : ROTARY POTENTIOMETER |
| GND.MTL | : GROUND PLATE | VR.MTR | : POTENTIOMETER WITH MOTOR |
| GND.TERM | : GROUND TERMINAL | VR.SLIDE | : SLIDE POTENTIOMETER |
| JUMPER.CN | : JUMPER CONNECTOR | VR.SW | : POTENTIOMETER WITH SWITCH |
| JUMPER.TST | : JUMPER,TEST POINT | VR.TRIM | : TRIMMER POTENTIOMETER |
| L.DTCT | : LIGHT DETECTING MODULE | | |

DIGITAL

| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|------------|----------|-------------|-------------|--------------|-------------|-----|
| * | ZA305400 | P. C. B. | DIGITAL | JUCRKABGFLSH | PCB DIGITAL | |
| * | ZC223400 | P. C. B. | DIGITAL | T | PCB DIGITAL | |
| CB201-205 | WW271700 | CN. HDMI | 19P HDMI | | HDMI コネクター | |
| CB221 | VF982300 | CN. BS. PIN | 17P | | コネクター | 01 |
| CB222 | VQ045100 | CN. BS. PIN | 21P | | コネクター | 02 |
| CB223 | VQ044400 | CN. BS. PIN | 9P | | コネクター | 01 |
| CB224 | VQ047200 | CN. BS. PIN | 9P | | コネクター | 01 |
| CB262 | VK027100 | CN. BS. PIN | 12P | | コネクター | 01 |
| CB263-264 | VQ962100 | CN. BS. PIN | 18P | | コネクター | 03 |
| CB281 | VB389900 | CN. BS. PIN | 3P | JUCRKABGFLSH | コネクター | 01 |
| C2001-2004 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2005-2013 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2014 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2015-2017 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2018-2028 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2029 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2030 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2031 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2032 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2033-2034 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2035-2037 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2038 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2039-2041 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2042-2043 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2044-2045 | US660700 | C. CE. CHP | 7pF 50V | | チップセラコン | 01 |
| C2046 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2047-2049 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2050-2052 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2053 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2054 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2056 | US046100 | C. CE. CHP | 1uF 25V | | チップセラコン | 01 |
| C2057 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2058 | US046100 | C. CE. CHP | 1uF 25V | | チップセラコン | 01 |
| C2059 | US661220 | C. CE. CHP | 22pF 50V | | チップセラコン | |
| C2060 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2063-2068 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2069-2071 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2072 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2075 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2202 | UF027330 | C. EL. CHP | 33uF 10V | | チップケミコン | 01 |
| C2204 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2205 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2206-2208 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2209 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2212 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2213-2214 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2224-2228 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2229 | US126100 | C. CE. CHP | 1uF 10V | | チップセラコン | 01 |
| C2230 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2234-2235 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2236 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2249 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2255 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2256-2259 | US046100 | C. CE. CHP | 1uF 25V | | チップセラコン | 01 |
| C2260 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2262 | UF027330 | C. EL. CHP | 33uF 10V | | チップケミコン | 01 |
| C2263 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |

* New Parts * 新規部品

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| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
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| C2264-2267 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2269 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2270 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2271 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2401 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2402 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2403-2428 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2430 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2431 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2432 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2433-2434 | WP882000 | C. CE. CHP | 10uF 6. 3V | | チップセラコン | |
| C2435-2437 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2438-2440 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2441-2442 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2443-2446 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2447-2450 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2601-2602 | WJ344400 | C. CE. CHP | 22uF 6. 3V | | チップセラコン | 01 |
| C2605 | US663390 | C. CE. CHP | 3900pF 50V | | チップセラコン | 01 |
| C2606 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2607 | US663390 | C. CE. CHP | 3900pF 50V | | チップセラコン | 01 |
| C2608 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2609 | US663330 | C. CE. CHP | 3300pF 50V | | チップセラコン | |
| C2610 | US634220 | C. CE. CHP | 0. 022uF 16V | | チップセラコン | 01 |
| C2611-2612 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2613 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2614-2615 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2616 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2617-2618 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2620 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2622 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2623 | US126100 | C. CE. CHP | 1uF 10V | | チップセラコン | 01 |
| C2624 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2625 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2627 | US661120 | C. CE. CHP | 12pF 50V | | チップセラコン | |
| C2629 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2632 | US661150 | C. CE. CHP | 15pF 50V | | チップセラコン | 01 |
| C2634-2635 | WK004400 | C. CE. M. CHP | 10uF 16V | | チップ積層セラコン | 01 |
| C2636 | US126100 | C. CE. CHP | 1uF 10V | | チップセラコン | 01 |
| C2637 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2638 | US126100 | C. CE. CHP | 1uF 10V | | チップセラコン | 01 |
| C2639 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2640 | UB214680 | C. CE. CHP | 0. 068uF 25V | | チップセラコン | 01 |
| C2641 | US643470 | C. CE. CHP | 4700pF 25V | | チップセラコン | 01 |
| C2642 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2643 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2647 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2648 | WD758300 | C. CE. CHP | 10uF 10V | | チップセラコン | 01 |
| C2649 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2657 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2658-2660 | US126100 | C. CE. CHP | 1uF 10V | | チップセラコン | 01 |
| C2661 | UF037100 | C. EL. CHP | 10uF 16V | | チップケミコン | 01 |
| C2662 | UF438100 | C. EL. CHP | 100uF 16V | | チップケミコン | 01 |
| C2663-2664 | US062820 | C. CE. CHP | 820pF 50V B | | チップセラコン | 01 |
| C2665-2666 | UF037100 | C. EL. CHP | 10uF 16V | | チップケミコン | 01 |
| C2667-2672 | US662100 | C. CE. CHP | 100pF 50V | | チップセラコン | |
| C2673 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2716 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |

* New Parts * 新規部品

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| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|------------|----------|-----------------|---------------------|--------------|--------------|------------|
| C2717 | WJ344400 | C. CE. CHP | 22uF 6. 3V | | チップセラコン | 01 |
| C2719 | US663390 | C. CE. CHP | 3900pF 50V | | チップセラコン | 01 |
| C2720 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2721 | US634220 | C. CE. CHP | 0. 022uF 16V | | チップセラコン | 01 |
| C2722 | US663100 | C. CE. CHP | 1000pF 50V | | チップセラコン | 01 |
| C2723 | US625100 | C. CE. CHP | 0. 1uF 10V | | チップセラコン | 01 |
| C2724 | US634100 | C. CE. CHP | 0. 01uF 16V | | チップセラコン | 01 |
| C2725 | WK004400 | C. CE. M. CHP | 10uF 16V | | チップ積層セラコン | 01 |
| C2801 | US662100 | C. CE. CHP | 100pF 50V | JUCRKABGFLSH | チップセラコン | |
| C2802-2805 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2806 | US662100 | C. CE. CHP | 100pF 50V | JUCRKABGFLSH | チップセラコン | |
| C2807 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2809 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2810 | US060700 | C. CE. CHP | 7pF 50V B | JUCRKABGFLSH | チップセラコン | 01 |
| C2811 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2812 | US060700 | C. CE. CHP | 7pF 50V B | JUCRKABGFLSH | チップセラコン | 01 |
| C2813-2814 | US625100 | C. CE. CHP | 0. 1uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| C2815 | WP882000 | C. CE. CHP | 10uF 6. 3V | JUCRKABGFLSH | チップセラコン | |
| D2002 | V2376600 | DIODE. SCHOTTKY | RB500V-40 | | ショットキーダイオード | 01 |
| D2023 | VV220700 | DIODE. SCHOTTKY | RB501V-40 | | ショットキーダイオード | 01 |
| D2201-2203 | WR148500 | DIODE | RB521S-30TE61 | | ダイオード | |
| D2204 | WW783900 | DIODE | 1SS355VM | | ダイオード | |
| * IC201 | YE185A00 | IC. MEMORY | W25Q16CVSSIG | written | JUCRKABGFLSH | メモリ I C |
| IC203 | X4063A00 | IC | TC7WHU04FU | | JUCRKABGFLSH | ロジック I C |
| * IC204 | YE181A00 | IC | TC7MBL3257CFK | | JUCRKABGFLSH | ロジック I C |
| * IC221 | YE182A00 | IC. MEMORY | R1EX25032ATA00A | | | メモリ I C |
| * IC222 | YE186A00 | IC. MEMORY | W25Q80BVSSIG | written | | メモリ I C |
| IC223 | X4453A00 | IC | SN74LVC1G17DCKR | | JUCRKABGFLSH | ロジック I C |
| IC224 | XV891B00 | IC | TC74VHC08FT (EL, K) | | JUCRKABGFLSH | ロジック I C |
| IC242 | X9625B00 | IC. MEMORY | M12L64164A-5TG 64M | | | メモリ I C |
| * IC243 | YE184A00 | IC. MEMORY | MX29LV160DBTI-70G | written | | メモリ I C |
| * IC263 | YD957A00 | IC | R1191H050B-T1-FE | | | 電源 I C |
| * IC264 | YD956A00 | IC | R1191H050D-T1-FE | | | 電源 I C |
| IC265 | YD216A00 | IC | PCM9211PTR | | | I C |
| IC266 | X9870A00 | IC | PCM1681PWPR | | | I C |
| IC267 | X3586B00 | IC | TC74VHCT08AFT EL, K | | JUCRKABGFLSH | ロジック I C |
| * IC282 | YE099A00 | IC | BU94607ARKV-E | | JUCRKABGFLSH | I C |
| Q2001-2008 | WZ461800 | TR. CHP | 2SC4081UBTLR | | | チップトランジスタ |
| Q2009 | WE834500 | FET | UPA672T-T1-A | | | F E T |
| Q2201 | WW782100 | TR. DGT | DTC014EUBTL | JUCRKABGFLSH | | デジタルトランジスタ |
| Q2202 | WW782000 | TR. DGT | DTA044EUBTL | JUCRKABGFLSH | | デジタルトランジスタ |
| Q2203 | WY001400 | TR. ARRAY | HN4B01JE | | | トランジスタアレイ |
| Q2204-2207 | WZ461700 | TR. CHP | 2SA1576UBTLR | | | チップトランジスタ |
| Q2208-2209 | WY001400 | TR. ARRAY | HN4B01JE | | | トランジスタアレイ |
| Q2210 | WZ461700 | TR. CHP | 2SA1576UBTLR | | | チップトランジスタ |
| Q2211 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ |
| Q2212 | WZ703400 | FET | RAL035P01 | | | MOS F E T |
| XL201 | ZA692800 | RSNR. CRYs | 27MHz DSX321G | | | 水晶振動子 |
| XL221 | WA782500 | RSNR. CE | 8. 000MHz | | | セラミック振動子 |
| XL261 | WS190000 | RSNR. CRYs | 24. 576MHz DSX321G | | | 水晶振動子 |
| XL281 | WM135200 | RSNR. CRYs | 16. 9344MHz DSX321G | JUCRKABGFLSH | | 水晶振動子 |

* New Parts * 新規部品

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| OPERATION |
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| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
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* | ZA305000 | P. C. B. | OPERATION | J | PCB OPERATION | |
| | ZA305100 | P. C. B. | OPERATION | UC | PCB OPERATION | |
| | ZA305200 | P. C. B. | OPERATION | RS | PCB OPERATION | |
| | ZC223100 | P. C. B. | OPERATION | T | PCB OPERATION | |
| | ZA305300 | P. C. B. | OPERATION | KABGFLH | PCB OPERATION | |
| △ | CB101 | VF982300 CN. BS. PIN | 17P | | コネクタ | 01 |
| | CB104 | VQ047200 CN. BS. PIN | 9P | | コネクタ | 01 |
| | CB105 | WQ680200 CN. USB | 4P TE AAPVA004C0 | JUCRKABGFLSH | USBコネクタ | 02 |
| | CB132 | VK026300 CN. BS. PIN | 4P | | コネクタ | 01 |
| | CB134 | VK026500 CN. BS. PIN | 6P | | ワイヤートラップ | 01 |
| | CB135 | LB919090 CN. BS. PIN | 9P | | コネクタ | 02 |
| | CB136 | VK024900 CN. BS. PIN | 52147 5P TE | | ワイヤートラップ | 01 |
| | CB152-153 | WN077700 CLIP. FUSE | CLIP PFC5000-0202F | | ヒューズクリップ | |
| | CB154-155 | VG879900 CN. BS. PIN | 2P | | コネクタ | 01 |
| | CB166 | VB858300 CN. BS. PIN | 4P | | コネクタ | 01 |
| | CB191-192 | VQ962100 CN. BS. PIN | 18P | | コネクタ | 03 |
| | CB193 | VQ044400 CN. BS. PIN | 9P | | コネクタ | 01 |
| | CB194 | VM923600 CN. BS. PIN | 13P | | コネクタ | 01 |
| | CB195-196 | VQ963900 CN. BS. PIN | 18P | | コネクタ | 03 |
| | C1001-1002 | US065100 C. CE. CHP | 0. 1uF 50V B | | チップセラコン | 01 |
| | C1003-1004 | US062100 C. CE. CHP | 100pF 50V B | | チップセラコン | 01 |
| | C1005 | US135100 C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| | C1006 | US061100 C. CE. CHP | 10pF 50V B | | チップセラコン | 01 |
| | C1007 | US135100 C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| | C1008 | UM397100 C. EL | 10uF 16V | | ケミコン | 01 |
| | C1009-1011 | US135100 C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| | C1012 | WD758300 C. CE. CHP | 10uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| | C1013 | UR868220 C. EL | 220uF 50V | | ケミコン | |
| | C1014 | UM388330 C. EL | 330uF 6. 3V | | ケミコン | 01 |
| | C1015 | US135100 C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| | C1016 | US061680 C. CE. CHP | 68pF 50V B | | チップセラコン | 01 |
| | C1017 | US065100 C. CE. CHP | 0. 1uF 50V B | | チップセラコン | 01 |
| | C1018 | US064100 C. CE. CHP | 0. 01uF 50V B | | チップセラコン | 01 |
| | C1019-1020 | US065100 C. CE. CHP | 0. 1uF 50V B | | チップセラコン | 01 |
| | C1023 | US064100 C. CE. CHP | 0. 01uF 50V B | | チップセラコン | 01 |
| | C1026-1027 | US135100 C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| | C1028-1029 | US062220 C. CE. CHP | 220pF 50V B | | チップセラコン | 01 |
| | C1031 | WD758300 C. CE. CHP | 10uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| | C1032 | UM398100 C. EL | 100uF 16V | JUCRKABGFLSH | ケミコン | 01 |
| | C1033-1034 | WD758300 C. CE. CHP | 10uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| | C1036 | WD758300 C. CE. CHP | 10uF 10V | JUCRKABGFLSH | チップセラコン | 01 |
| | C1038 | US063100 C. CE. CHP | 1000pF 50V B | JUCRKABGFLSH | チップセラコン | 01 |
| | C1301 | UR866100 C. EL | 1uF 50V | | ケミコン | 01 |
| | C1302-1303 | UR837470 C. EL | 47uF 16V | | ケミコン | 01 |
| | C1304 | US064100 C. CE. CHP | 0. 01uF 50V B | | チップセラコン | 01 |
| | C1305 | US065100 C. CE. CHP | 0. 1uF 50V B | | チップセラコン | 01 |
| | C1306 | US135100 C. CE. CHP | 0. 1uF 16V | JUCRKABGFLSH | チップセラコン | 01 |
| | C1307 | UR837470 C. EL | 47uF 16V | | ケミコン | 01 |
| | C1308 | UR867100 C. EL | 10uF 50V | JUCRKABGFLSH | ケミコン | 01 |
| | C1309 | UR837100 C. EL | 10uF 16V | | ケミコン | 01 |
| | C1310-1311 | UR866100 C. EL | 1uF 50V | | ケミコン | 01 |
| | C1312 | UR866100 C. EL | 1uF 50V | JUCRKABGFLSH | ケミコン | 01 |
| | C1313-1316 | UR866100 C. EL | 1uF 50V | | ケミコン | 01 |
| | C1317 | UR739470 C. EL | 4700uF 16V | JUCRKABGFLSH | ケミコン | 02 |
| | C1318 | UR749470 C. EL | 4700uF 25V | | ケミコン | 05 |
| | C1319 | UR749220 C. EL | 2200uF 25V | | ケミコン | 03 |

* New Parts * 新規部品

OPERATION

| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|--------------|----------|-----------------|--------------------|--------------|-------------|-----|
| C1320 | UR73A100 | C. EL | 10000uF 16V | | ケミコン | 03 |
| C1322-1323 | VR168300 | C. MYLAR | 0. 1uF 50V | | マイラーコン | 01 |
| C1325 | US135330 | C. CE. CHP | 0. 33uF 16V | JUCKRABGFLSH | チップセラコン | 01 |
| C1326 | WJ610200 | C. MYLAR | 0. 01uF 100V | | マイラーコン | 01 |
| C1328 | US035100 | C. CE. CHP | 0. 1uF 16V B | | チップセラコン | 01 |
| C1329 | US035100 | C. CE. CHP | 0. 1uF 16V B | UC | チップセラコン | 01 |
| C1451-1452 | US063100 | C. CE. CHP | 1000pF 50V B | | チップセラコン | 01 |
| C1501 | UR749220 | C. EL | 2200uF 25V | JUCKABGFLH | ケミコン | 03 |
| C1501 | UR759220 | C. EL | 2200uF 35V | RS | ケミコン | 02 |
| C1502 | WJ610200 | C. MYLAR | 0. 01uF 100V | | マイラーコン | 01 |
| C1503 | UR897100 | C. EL | 10uF 100V | RS | ケミコン | 01 |
| C1504 | WJ610200 | C. MYLAR | 0. 01uF 100V | JUCKABGFLH | マイラーコン | 01 |
| C1505-1506 | WJ610200 | C. MYLAR | 0. 01uF 100V | RS | マイラーコン | 01 |
| △ C1507 | WQ939400 | C. CE. SAFTY | 0. 01uF 250V | | 規格認定コンデンサ | 01 |
| C1651-1654 | WJ610200 | C. MYLAR | 0. 01uF 100V | | マイラーコン | 01 |
| C1701 | US064100 | C. CE. CHP | 0. 01uF 50V B | JUCKRABGFLSH | チップセラコン | 01 |
| C1702-1704 | US063100 | C. CE. CHP | 1000pF 50V B | JUCKRABGFLSH | チップセラコン | 01 |
| C1705 | UM397100 | C. EL | 10uF 16V | JUCKRABGFLSH | ケミコン | 01 |
| C1706 | UM397220 | C. EL | 22uF 25V | JUCKRABGFLSH | ケミコン | 01 |
| C1707 | US062100 | C. CE. CHP | 100pF 50V B | JUCKRABGFLSH | チップセラコン | 01 |
| C1708 | UM387470 | C. EL | 47uF 16V | JUCKRABGFLSH | ケミコン | 01 |
| C1709 | US061330 | C. CE. CHP | 33pF 50V B | JUCKRABGFLSH | チップセラコン | 01 |
| C1710 | UM397100 | C. EL | 10uF 16V | JUCKRABGFLSH | ケミコン | 01 |
| C1711-1712 | UM397220 | C. EL | 22uF 25V | JUCKRABGFLSH | ケミコン | 01 |
| C1713-1714 | US065100 | C. CE. CHP | 0. 1uF 50V B | JUCKRABGFLSH | チップセラコン | 01 |
| D1001-1002 | WY163000 | DIODE. ZENR | UDZV4. 3B | | ツェナーダイオード | |
| D1003-1004 | WW783900 | DIODE | 1SS355VM | | ダイオード | |
| D1007 | WW783900 | DIODE | 1SS355VM | JUCKRABGFLSH | ダイオード | |
| D1301 | VV220700 | DIODE. SCHOTTKY | RB501V-40 | | ショットキーダイオード | 01 |
| D1302 | WY163300 | DIODE. ZENR | UDZV5. 6B | | ツェナーダイオード | |
| D1303 | WW783900 | DIODE | 1SS355VM | | ダイオード | |
| D1304 | WY163300 | DIODE. ZENR | UDZV5. 6B | | ツェナーダイオード | |
| D1305-1306 | WW783900 | DIODE | 1SS355VM | | ダイオード | |
| △ D1307 | WH487300 | DIODE. BRG | RS203M 2. 0A 200V | JUCKRABGFLSH | ブリッジダイオード | 02 |
| △ D1308-1309 | WA653100 | DIODE. BRG | KBP103G 1A 200V | | ブリッジダイオード | 02 |
| D1313-1314 | WW783900 | DIODE | 1SS355VM | | ダイオード | |
| * D1501 | WY163100 | DIODE. ZENR | UDZV4. 7B | | ツェナーダイオード | |
| △ * D1502 | WY163100 | DIODE. ZENR | UDZV4. 7B | RS | ツェナーダイオード | |
| △ D1503-1504 | VS997800 | DIODE | 1T2 | | ダイオード | 01 |
| △ D1505 | VS997800 | DIODE | 1T2 | RS | ダイオード | 01 |
| △ D1506-1507 | VS997800 | DIODE | 1T2 | | ダイオード | 01 |
| D1508-1509 | WC398800 | DIODE | KDS160-RTK | | ダイオード | 01 |
| * D1510 | WY163100 | DIODE. ZENR | UDZV4. 7B | | ツェナーダイオード | |
| D1703 | WY163200 | DIODE. ZENR | UDZV5. 1B | JUCKRABGFLSH | ツェナーダイオード | 01 |
| △ F1501 | WB221200 | FUSE | T6A 125V | JUC | ヒューズ | 01 |
| △ F1501 | WM933100 | FUSE | T5A 250V | RS | ヒューズ | 01 |
| △ F1501 | VV071700 | FUSE | 3. 15A 250V | TKABGFLH | ヒューズ | 01 |
| IC101 | X6386A00 | IC | M66003-0131FP | | I C | 07 |
| IC102 | YA255A00 | IC | R1172H501D-T1-F | JUCKRABGFLSH | 電源 I C | 03 |
| △ IC131 | X6248A00 | IC | NJM2388F33 | | 電源 I C | 04 |
| IC132 | X4928A00 | IC | KIA7805API 5V | JUCKRABGFLSH | 電源 I C | 02 |
| △ IC133 | X4153A00 | IC | KIA7812API | | 電源 I C | 02 |
| △ IC134 | X4154A00 | IC | KIA7912PI | | 電源 I C | 03 |
| △ IC135 | X4928A00 | IC | KIA7805API 5V | | 電源 I C | 02 |
| IC136 | YA381A00 | IC | LM19C1Z/LF THERMAL | | 電源 I C | 04 |
| IC137 | YA381A00 | IC | LM19C1Z/LF THERMAL | UC | 電源 I C | 04 |
| * IC171 | YD779A00 | IC | BA4560F OP AMP | JUCKRABGFLSH | アンプ I C | |

* New Parts * 新規部品

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|---------------------------|
| OPERATION and MAIN |
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| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|-----|------------|----------|-------------|-------------------|--------------|-------------|-----|
| * | JK101 | ZA305700 | JACK. MINI | MSJ-035-05A-B-RF | | ステレオミニジャック | |
| | JK166 | WZ975700 | JACK. PHONE | MSJ-064-05B-B-RF | | PHONES ジャック | |
| | JK171 | WJ117300 | JACK. MNI | MSJ-2200C AG | JUCRKABGFLSH | ミニジャック | 02 |
| | PJ101 | WZ631700 | JACK. PIN | 1P MTJ-032-21B-NI | | ピンジャック | |
| | Q1001-1008 | WC529400 | TR | KTC3875S Y GR RTK | | トランジスタ | 01 |
| | Q1301 | WC435100 | TR. DGT | KRC104S-RTK | | デジタルトランジスタ | 01 |
| | Q1302 | WC529400 | TR | KTC3875S Y GR RTK | | トランジスタ | 01 |
| | Q1303 | WB228800 | TR | KTC3198 Y AT | | トランジスタ | 01 |
| | Q1304 | WC435100 | TR. DGT | KRC104S-RTK | | デジタルトランジスタ | 01 |
| △ | Q1501 | WB228800 | TR | KTC3198 Y AT | | トランジスタ | 01 |
| △ | Q1502 | WB228700 | TR | KTA1266 Y AT | RS | トランジスタ | 01 |
| △ | Q1503 | VP872600 | TR | 2SA1708 S, T | RS | トランジスタ | |
| △ | Q1504 | WB228700 | TR | KTA1266 Y AT | RS | トランジスタ | 01 |
| △ * | Q1505 | WG422900 | TR. DGT | DTC114EUA TP | RS | デジタルトランジスタ | |
| △ | R1316 | HL004470 | R. MTL. OXD | 47Ω 1/2W | | 酸化金属被膜抵抗 | 01 |
| △ | R1322 | WJ681600 | R. MTL. FLM | 0.22Ω 1W | JUCRKABGFLSH | 金属被膜抵抗 | |
| △ | R1323 | WJ682000 | R. MTL. FLM | 0.47Ω 1W J | | 金属被膜抵抗 | |
| | R1508 | VC757900 | R. MTL. OXD | 47Ω 2W | RS | 酸化金属被膜抵抗 | 01 |
| | R1651-1652 | WJ685600 | R. MTL. FLM | 470Ω 1W J | | 金属被膜抵抗 | 01 |
| △ | RY151 | V9366900 | RELAY | DLS9D1-0(M) 0.25W | | リレー 9V TV-8 | 05 |
| | SW101-114 | WD483100 | SW. TACT | SKRGAAD010 | | タクトスイッチ | 01 |
| | SW116-119 | WD483100 | SW. TACT | SKRGAAD010 | | タクトスイッチ | 01 |
| | SW145 | V9597100 | SW. RT. ENC | EC12E2460802 | | ロータリーエンコーダ | 04 |
| | SW171 | WD483100 | SW. TACT | SKRGAAD010 | | タクトスイッチ | 01 |
| △ | T1501 | X8520A00 | TRANS. PWR | | J | 電源トランス | 07 |
| △ | T1501 | X8521A00 | TRANS. PWR | | UC | 電源トランス | |
| △ | T1501 | X8522A00 | TRANS. PWR | | RS | 電源トランス | |
| △ | T1501 | X8523A00 | TRANS. PWR | | TKABGFLH | 電源トランス | |
| | U1001 | WQ600700 | L. DTCT | SM3385VMH6 | | リモコン受光ユニット | 03 |
| | V1001 | WW890900 | FL. DSPLY | 18-MT-11GNK | | 蛍光表示管 | |
| * | | ZA889500 | FL. SPACER | 8x30x4.3 | | FL スペース | |
| * | | ZA304300 | P. C. B. | MAIN | J | PCB MAIN | |
| * | | ZA304400 | P. C. B. | MAIN | UCAT | PCB MAIN | |
| * | | ZA304500 | P. C. B. | MAIN | RS | PCB MAIN | |
| * | | ZA304600 | P. C. B. | MAIN | KBGLFH | PCB MAIN | |
| | CB1 | VQ047600 | CN. BS. PIN | 21P | | コネクタ | 02 |
| | CB3 | LB932060 | CN. BS. PIN | 6P | | コネクタ | 01 |
| | CB21-22 | VQ963900 | CN. BS. PIN | 18P | | コネクタ | 03 |
| | CB41 | VM923600 | CN. BS. PIN | 13P | | コネクタ | 01 |
| | CB42 | WD398400 | CN. DIN | 14P YKF45-3011 | J | DINコネクタ | 05 |
| | CB51 | V9377900 | CN. BS. PIN | 4P | RS | コネクタ | |
| | C1 | WJ610200 | C. MYLAR | 0.01uF 100V | | マイラーコン | 01 |
| * | C2-6 | WY263900 | C. EL | 10uF 16V | | ケミコン | |
| | C7 | UR877220 | C. EL | 22uF 63V | | ケミコン | 01 |
| | C8 | WJ608500 | C. MYLAR | 470pF 100V | | マイラーコン | 01 |
| | C9 | UR896470 | C. EL | 4.7uF 100V | | ケミコン | 01 |
| | C10 | WJ608500 | C. MYLAR | 470pF 100V | | マイラーコン | 01 |
| | C11 | UR896470 | C. EL | 4.7uF 100V | | ケミコン | 01 |
| | C12 | UR877220 | C. EL | 22uF 63V | | ケミコン | 01 |
| | C13-14 | UR896470 | C. EL | 4.7uF 100V | | ケミコン | 01 |
| | C15-17 | WJ608500 | C. MYLAR | 470pF 100V | | マイラーコン | 01 |
| | C19 | UR867330 | C. EL | 33uF 50V | | ケミコン | 01 |
| | C21-22 | UR867330 | C. EL | 33uF 50V | | ケミコン | 01 |
| | C24 | UR867330 | C. EL | 33uF 50V | | ケミコン | 01 |

* New Parts * 新規部品

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| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|------------|----------|---------------|--------------|---------|-----------|-----|
| C26 | UR897100 | C. EL | 10uF 100V | | ケミコン | 01 |
| C27 | FG650500 | C. CE | 5pF 50V | | セラコン | 01 |
| C29 | UR867330 | C. EL | 33uF 50V | | ケミコン | 01 |
| C30 | UR866100 | C. EL | 1uF 50V | | ケミコン | 01 |
| C31-34 | FG650500 | C. CE | 5pF 50V | | セラコン | 01 |
| C35-39 | WJ611000 | C. MYLAR | 0.047uF 100V | | マイラーコン | |
| C40 | UR866470 | C. EL | 4.7uF 50V | | ケミコン | 01 |
| C41 | UR828220 | C. EL | 220uF 10V | | ケミコン | 01 |
| C43 | UR878100 | C. EL | 100uF 63V | | ケミコン | 01 |
| C44 | UR867100 | C. EL | 10uF 50V | | ケミコン | 01 |
| C45 | UR868100 | C. EL | 100uF 50V | | ケミコン | 01 |
| △ C46-47 | WE514200 | C. EL | 6800uF 63V | | ケミコン | |
| C50-51 | WJ610200 | C. MYLAR | 0.01uF 100V | | マイラーコン | 01 |
| C52-53 | WJ610600 | C. MYLAR | 0.022uF 100V | | マイラーコン | 01 |
| C54-55 | WJ611400 | C. MYLAR | 0.1uF 100V J | | マイラーコン | 01 |
| C56 | US064100 | C. CE. CHP | 0.01uF 50V B | | チップセラコン | 01 |
| C59-61 | WJ610600 | C. MYLAR | 0.022uF 100V | | マイラーコン | 01 |
| C62-64 | WJ610200 | C. MYLAR | 0.01uF 100V | | マイラーコン | 01 |
| C65-66 | US062470 | C. CE. CHP | 470pF 50V B | | チップセラコン | 01 |
| C202 | US064100 | C. CE. CHP | 0.01uF 50V B | | チップセラコン | 01 |
| C203-204 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C205-206 | US061220 | C. CE. CHP | 22pF 50V B | | チップセラコン | 01 |
| C209-210 | US062220 | C. CE. CHP | 220pF 50V B | | チップセラコン | 01 |
| C211-212 | US061470 | C. CE. CHP | 47pF 50V B | | チップセラコン | 01 |
| C213-216 | US062220 | C. CE. CHP | 220pF 50V B | | チップセラコン | 01 |
| C217 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C218 | VR169200 | C. MYLAR | 0.47uF 50V | | マイラーコン | 01 |
| C219 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C222-223 | US061470 | C. CE. CHP | 47pF 50V B | | チップセラコン | 01 |
| C224-227 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C228 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C229 | UR867470 | C. EL | 47uF 50V | | ケミコン | 02 |
| C230 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C231-236 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C239-243 | US062680 | C. CE. CHP | 680pF 50V B | | チップセラコン | 01 |
| C244 | WJ611000 | C. MYLAR | 0.047uF 100V | | マイラーコン | |
| C247-249 | US062100 | C. CE. CHP | 100pF 50V B | | チップセラコン | 01 |
| C251-252 | US062100 | C. CE. CHP | 100pF 50V B | | チップセラコン | 01 |
| C253 | WJ609900 | C. MYLAR | 6800pF 100V | | マイラーコン | 01 |
| C255-258 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C261-262 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C264 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C267 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| C270 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| C271 | UR837330 | C. EL | 33uF 16V | | ケミコン | 01 |
| C272 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| C276-279 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| C280 | UR867100 | C. EL | 10uF 50V | | ケミコン | 01 |
| * C281-283 | WY270200 | C. EL | 10uF 50V | | ケミコン | |
| C284-285 | UR867100 | C. EL | 10uF 50V | | ケミコン | 01 |
| C288-289 | UR867470 | C. EL | 47uF 50V | | ケミコン | 02 |
| C290 | US062100 | C. CE. CHP | 100pF 50V B | | チップセラコン | 01 |
| * C291-292 | WY270500 | C. EL | 47uF 50V | | ケミコン | |
| * C293 | WY270200 | C. EL | 10uF 50V | | ケミコン | |
| C294-299 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C302-303 | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | 01 |
| C401 | WE773800 | C. CE. M. CHP | 1uF 10V B | | チップ積層セラコン | 01 |

* New Parts * 新規部品

MAIN

| Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|-----------|----------|---------------|----------------------|---------|------------|-----|
| C402-403 | UR866470 | C. EL | 4. 7uF 50V | | ケミコン | 01 |
| C404-408 | WE773800 | C. CE. M. CHP | 1uF 10V B | | チップ積層セラコン | 01 |
| C409 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C410-412 | US060800 | C. CE. CHP | 8pF 50V B | | チップセラコン | 01 |
| C413-414 | US062100 | C. CE. CHP | 100pF 50V B | | チップセラコン | 01 |
| C415 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C416 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| C417-418 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C419 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C420-421 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C422 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C423 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| C425-428 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| C430 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| C431-432 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C433 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| C434 | US135100 | C. CE. CHP | 0. 1uF 16V | | チップセラコン | 01 |
| C435-436 | US060300 | C. CE. CHP | 3pF 50V B | | チップセラコン | 01 |
| C438 | UR837470 | C. EL | 47uF 16V | | ケミコン | 01 |
| D1-2 | VD631600 | DIODE | 1SS133, 176 | | ダイオード | 01 |
| D3 | WY163200 | DIODE. ZENR | UDZV5. 1B | | ツェナーダイオード | 01 |
| D4-8 | WC398800 | DIODE | KDS160-RTK | | ダイオード | 01 |
| △ D9 | VD631600 | DIODE | 1SS133, 176 | | ダイオード | 01 |
| △ D10-11 | VN008700 | DIODE | 1SS270A | | ダイオード | 01 |
| △ D12-14 | VD631600 | DIODE | 1SS133, 176 | | ダイオード | 01 |
| △ D15-17 | VN008700 | DIODE | 1SS270A | | ダイオード | 01 |
| * D18 | ZC567600 | DIODE. ZENR | UDZV39B TE-17 39V | | ツェナーダイオード | |
| △ D19 | WA653200 | DIODE. BRG | TS6P03G 6A 200V | | ブリッジダイオード | 04 |
| D20 | WU201600 | DIODE | 1N4003S TP | | ダイオード | 01 |
| D22 | VD631600 | DIODE | 1SS133, 176 | | ダイオード | 01 |
| D201-202 | VU172200 | DIODE. ZENR | UDZS6. 8BTE-17 6. 8V | | ツェナーダイオード | |
| D401 | WY163300 | DIODE. ZENR | UDZV5. 6B | | ツェナーダイオード | |
| △ IC1 | YD936A00 | IC. PWR. AMP | STK433-330N-E | | パワーアンプ I C | 11 |
| △ IC2 | YD935A00 | IC. PWR. AMP | STK433-130N-E | | パワーアンプ I C | 09 |
| IC21 | YA361B00 | IC | R2A15220FP | | I C | 07 |
| IC22 | XZ509A00 | IC | TC74VHC04FT INVER | | ロジック I C | 01 |
| * IC23-25 | YD779A00 | IC | BA4560F OP AMP | | アンプ I C | |
| * IC27 | YD779A00 | IC | BA4560F OP AMP | | アンプ I C | |
| IC40 | YD360A00 | IC | NJM2505A VIDEO AMP | | アンプ I C | |
| IC41 | X7362A00 | IC | NJM2586AM (TE2) | | アンプ I C | |
| IC42 | XY549A00 | IC | TC74HC4051AFEL | | ロジック I C | 02 |
| IC43 | X2904A00 | IC | NJM2581M VIDEO AMP | | アンプ I C | 06 |
| PJ21 | V7046700 | JACK. PIN | 4P MSP-244V1-01NI | | ピンジャック | 03 |
| PJ22 | V7189700 | JACK. PIN | 1P | | ピンジャック | 01 |
| PJ24 | V9420700 | JACK. PIN | 2P MSP-252V1-30NI | | ピンジャック | |
| PJ26 | V7046800 | JACK. PIN | 6P MSP-246V1-01NI | | ピンジャック | 04 |
| PJ41 | WH380800 | JACK. PIN | 3P JACK G, B, R | | ピンジャック | |
| PJ42 | V7189800 | JACK. PIN | 1P | | ピンジャック | 01 |
| PJ43-44 | V7190000 | JACK. PIN | 2P | | ピンジャック | |
| PJ45 | WG505100 | JACK. PIN | 6P | | ピンジャック | 04 |
| △ Q1 | WC398400 | TR | 2N5551C-AT | | トランジスタ | 01 |
| △ Q2-3 | VS883300 | TR | 2SB1565 E, F | | トランジスタ | 02 |
| △ Q4 | WC398400 | TR | 2N5551C-AT | | トランジスタ | 01 |
| △ Q5-6 | WC397700 | TR | 2N5401C-AT | | トランジスタ | 01 |
| △ Q7-11 | WC398400 | TR | 2N5551C-AT | | トランジスタ | 01 |
| △ Q12 | WC397700 | TR | 2N5401C-AT | | トランジスタ | 01 |
| △ Q13-16 | WC434900 | TR. DGT | KRA104S-RTK | | デジタルトランジスタ | 01 |

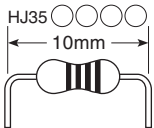
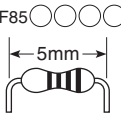
* New Parts * 新規部品

MAIN

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|---|----------|----------|--------------|-----------------------|---------|------------|-----|
| △ | Q17-20 | WC435000 | TR. DGT | KRC102S-RTK | | デジタルトランジスタ | 01 |
| △ | Q21 | VP872600 | TR | 2SA1708 S, T | | トランジスタ | |
| | Q22 | WB228800 | TR | KTC3198 Y AT | | トランジスタ | 01 |
| | Q23 | WC435000 | TR. DGT | KRC102S-RTK | | デジタルトランジスタ | 01 |
| | Q24 | WC434900 | TR. DGT | KRA104S-RTK | | デジタルトランジスタ | 01 |
| | Q201-205 | WC883400 | TR | 2SD2704 K | | トランジスタ | |
| | Q208-209 | WC883400 | TR | 2SD2704 K | | トランジスタ | |
| | Q401 | WC397700 | TR | 2N5401C-AT | | トランジスタ | 01 |
| △ | R6-7 | WW965300 | R. MTL. OXD | 2. 2Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R10 | WW971100 | R. MTL. OXD | 560Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R18 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R22 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R33 | WP839400 | R. CEMENT | 0. 22+0. 22 3W | | セメント抵抗 | 01 |
| △ | R36 | WP839400 | R. CEMENT | 0. 22+0. 22 3W | | セメント抵抗 | 01 |
| △ | R40 | WP839400 | R. CEMENT | 0. 22+0. 22 3W | | セメント抵抗 | 01 |
| △ | R48-49 | WP839400 | R. CEMENT | 0. 22+0. 22 3W | | セメント抵抗 | 01 |
| | R64 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R66 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R68 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R71-72 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R74 | WB625100 | R. MTL. FLM | 4. 7Ω 1W J | | 金属被膜抵抗 | 01 |
| △ | R78-79 | WB625100 | R. MTL. FLM | 4. 7Ω 1W J | | 金属被膜抵抗 | 01 |
| △ | R82-83 | WB625100 | R. MTL. FLM | 4. 7Ω 1W J | | 金属被膜抵抗 | 01 |
| △ | R87 | WW972500 | R. MTL. OXD | 2. 2KΩ 1/4W | | 酸化金属被膜抵抗 | |
| △ | R90 | WW966100 | R. MTL. OXD | 4. 7Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R105-109 | WW966100 | R. MTL. OXD | 4. 7Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | R112 | WW965300 | R. MTL. OXD | 2. 2Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R214 | WW970100 | R. MTL. OXD | 220Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R242 | WW964500 | R. MTL. OXD | 1Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R291 | WW965300 | R. MTL. OXD | 2. 2Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R297 | WW965300 | R. MTL. OXD | 2. 2Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R314 | WJ684700 | R. MTL. FLM | 82Ω 1W | | 金属被膜抵抗 | 01 |
| | R316 | WJ684700 | R. MTL. FLM | 82Ω 1W | | 金属被膜抵抗 | 01 |
| | R425 | HL004390 | R. MTL. OXD | 39Ω 1/2W | | 酸化金属被膜抵抗 | 01 |
| | R430 | WW964500 | R. MTL. OXD | 1Ω 1/4W | | 酸化金属被膜抵抗 | |
| | R433 | WW964500 | R. MTL. OXD | 1Ω 1/4W | | 酸化金属被膜抵抗 | |
| △ | RY1-4 | WJ122400 | RELAY | 981-2A-24DS-SP7 DC24V | | リレー | 04 |
| | RY5 | WE648700 | RELAY | DC DH24D2-0-Q DC24V | | リレー | 06 |
| △ | SW51 | WV382900 | SW. SLIDE | SL14 | RS | スライドスイッチ | |
| | TE1 | WK560800 | TERM. SP | 4P MST-204V1-01 NC | JUCRTAS | スピーカーターミナル | 04 |
| | TE1 | WK560900 | TERM. SP | 4P MST-204V1-01 WC | KBGFLH | スピーカーターミナル | |
| | TE2 | WB214000 | TERM. SP | 6P PUSH MSP-115V2 | | スピーカーターミナル | 03 |
| | TH3 | V9760200 | THRMST. CHP | NCP18XH103J03RB | | チップサーミスタ | 01 |
| | U201-202 | WU204200 | CN. PHOTO. R | 1P JSR1165-D | | 光ファイバー受信器 | |
| | | WE774200 | SCR. BND. HD | 3x10 MFZN2W3 | | バインドBタイトネジ | 01 |

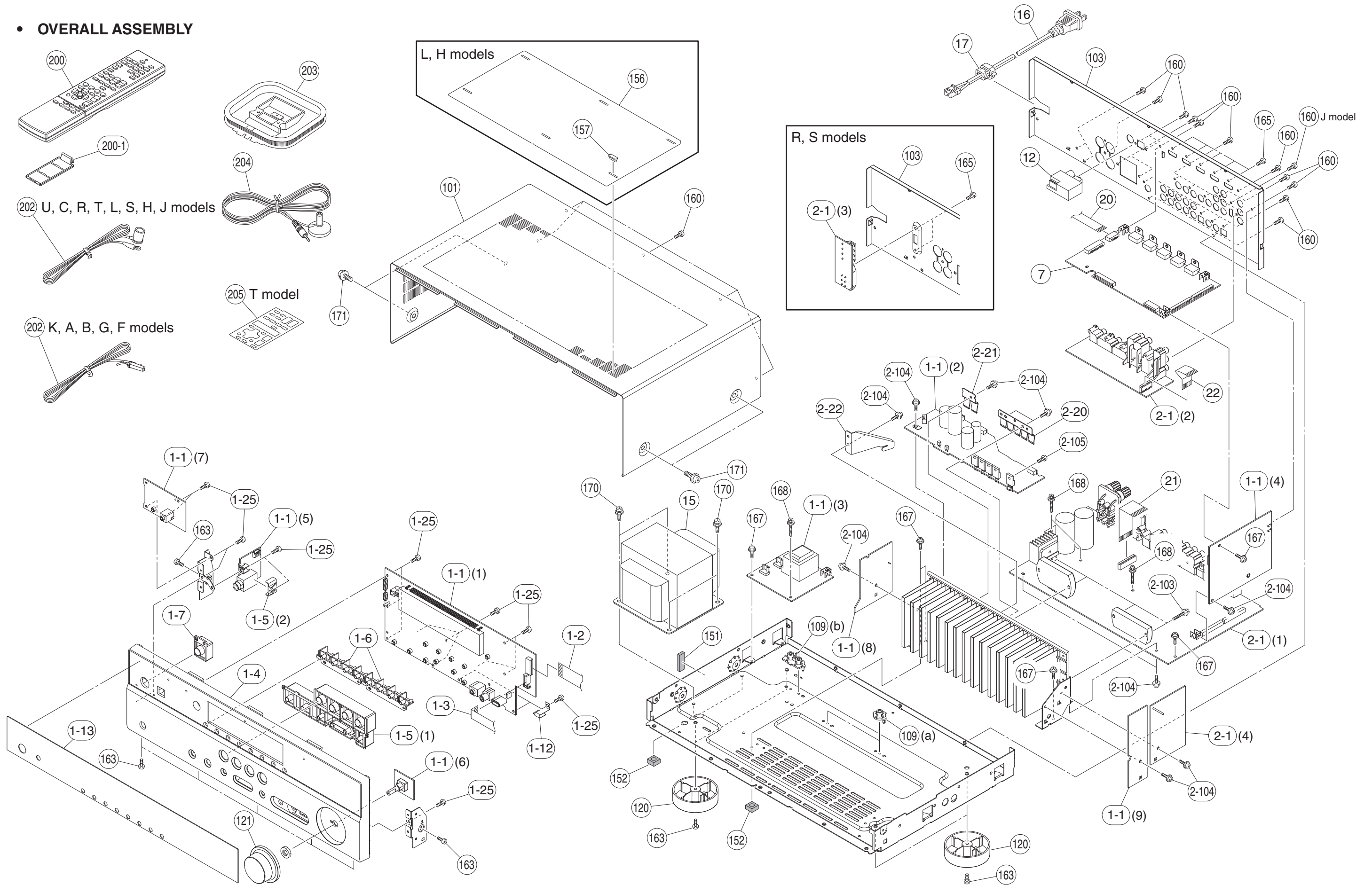
* New Parts * 新規部品

Carbon Resistors

| Value | 1/4W Type Part No. | 1/6W Type Part No. | Value | 1/4W Type Part No. | 1/6W Type Part No. |
|--------|--------------------|--------------------|--------|---|--------------------|
| 1.0 Ω | HJ35 3100 | HF85 3100 | 11 kΩ | HF45 7110 | HF45 7110 |
| 1.8 Ω | HJ35 3180 | ※ | 12 kΩ | HJ35 7120 | HF85 7120 |
| 2.2 Ω | HJ35 3220 | HF85 3220 | 13 kΩ | HF45 7130 | HF45 7130 |
| 3.3 Ω | HJ35 3330 | HF85 3330 | 15 kΩ | HF45 7150 | HF45 7150 |
| 4.7 Ω | HJ35 3470 | HF85 3470 | 18 kΩ | HF45 7180 | HF45 7180 |
| 5.6 Ω | HJ35 3560 | HF85 3560 | 22 kΩ | HF45 7220 | HF45 7220 |
| 10 Ω | HF45 4100 | HF45 4100 | 24 kΩ | HF45 7240 | HF45 7240 |
| 15 Ω | HJ35 4150 | HF85 4150 | 27 kΩ | HJ35 7270 | HF85 7270 |
| 22 Ω | HF45 4220 | HF45 4220 | 30 kΩ | HF45 7300 | HF45 7300 |
| 27 Ω | HJ35 4270 | HF85 4270 | 33 kΩ | HF45 7330 | HF45 7330 |
| 33 Ω | HF45 4330 | HF45 4330 | 36 kΩ | HF45 7360 | HF45 7360 |
| 39 Ω | HJ35 4470 | HF85 4390 | 39 kΩ | HF45 7390 | HF45 7390 |
| 47 Ω | HF45 4470 | HF45 4470 | 47 kΩ | HF45 7470 | HF45 7470 |
| 56 Ω | HF45 4560 | HF45 4560 | 51 kΩ | HF45 7510 | HF45 7510 |
| 68 Ω | HF45 4680 | HF45 4680 | 56 kΩ | HF45 7560 | HF45 7560 |
| 75 Ω | HF45 4750 | HF45 4750 | 62 kΩ | HF45 7620 | HF45 7620 |
| 82 Ω | HF45 4820 | HF45 4820 | 68 kΩ | HF45 7680 | HF45 7680 |
| 91 Ω | HF45 4910 | HF45 4910 | 82 kΩ | HF45 7820 | HF45 7820 |
| 100 Ω | HF45 5100 | HF45 5100 | 91 kΩ | HF45 7910 | HF45 7910 |
| 110 Ω | HJ35 5110 | HF85 5110 | 100 kΩ | HF45 8100 | HF45 8100 |
| 120 Ω | HF45 5120 | HF45 5120 | 110 kΩ | HF45 8110 | HF45 8110 |
| 150 Ω | HF45 5150 | HF45 5150 | 120 kΩ | HF45 8120 | HF45 8120 |
| 160 Ω | HJ35 5160 | ※ | 130 kΩ | HF45 8130 | ※ |
| 180 Ω | HF45 5180 | HF45 5180 | 150 kΩ | HF45 8150 | HF45 8150 |
| 200 Ω | HF45 5200 | HF45 5200 | 180 kΩ | HF45 8180 | HF45 8180 |
| 220 Ω | HF45 5220 | HF45 5220 | 220 kΩ | HJ35 8220 | HF85 8220 |
| 270 Ω | HF45 5270 | HF45 5270 | 270 kΩ | HF45 8270 | HF45 8270 |
| 330 Ω | HF45 5330 | HF45 5330 | 300 kΩ | HF45 8300 | HF45 8300 |
| 390 Ω | HF45 5390 | HF45 5390 | 330 kΩ | HF45 8330 | HF45 8330 |
| 430 Ω | HF45 5430 | HF45 5430 | 390 kΩ | HJ35 8390 | HF85 8390 |
| 470 Ω | HF45 5470 | HF45 5470 | 470 kΩ | HF45 8470 | HF45 8470 |
| 510 Ω | HF45 5510 | HF45 5510 | 560 kΩ | HJ35 8560 | HF85 8560 |
| 560 Ω | HF45 5560 | HF45 5560 | 680 kΩ | HJ35 8680 | HF85 8680 |
| 680 Ω | HF45 5680 | HF45 5680 | 820 kΩ | HJ35 8820 | HF85 8820 |
| 820 Ω | HF45 5820 | HF45 5820 | 1.0 MΩ | HF45 9100 | HF45 9100 |
| 910 Ω | HF45 5910 | HF45 5910 | 1.2 MΩ | HJ35 9120 | ※ |
| 1.0 kΩ | HF45 6100 | HF45 6100 | 1.5 MΩ | HJ35 9150 | HF85 9150 |
| 1.2 kΩ | HF45 6120 | HF45 6120 | 1.8 MΩ | HJ35 9180 | HF85 9180 |
| 1.5 kΩ | HF45 6150 | HF45 6150 | 2.2 MΩ | HJ35 9220 | HF85 9220 |
| 1.8 kΩ | HF45 6180 | HF45 6180 | 3.3 MΩ | HJ35 9330 | HF85 9330 |
| 2.0 kΩ | HJ35 6200 | HF85 6200 | 3.9 MΩ | HJ35 9390 | ※ |
| 2.2 kΩ | HF45 6220 | HF45 6220 | 4.7 MΩ | HJ35 9470 | HF85 9470 |
| 2.4 kΩ | HJ35 6240 | HF85 6240 | | | |
| 2.7 kΩ | HF45 6270 | HF45 6270 | | | |
| 3.0 kΩ | HF45 6300 | HF45 6300 | | <div><div><div>1/4W Type</div><div>HJ35○○○○</div><div>← 10mm →</div></div><div><div>1/4W Type</div><div>HF45○○○○</div><div>1/6W Type</div><div>HF85○○○○</div><div>← 5mm →</div></div></div> | |
| 3.3 kΩ | HF45 6330 | HF45 6330 | | | |
| 3.6 kΩ | HJ35 6360 | HF85 6360 | | | |
| 3.9 kΩ | HF45 6390 | HF45 6390 | | | |
| 4.7 kΩ | HF45 6470 | HF45 6470 | | | |
| 5.1 kΩ | HF45 6510 | HF45 6510 | | | |
| 5.6 kΩ | HF45 6560 | HF45 6560 | | | |
| 6.8 kΩ | HF45 6680 | HF45 6680 | | | |
| 8.2 kΩ | HF45 6820 | HF45 6820 | | | |
| 9.1 kΩ | HF45 6910 | HF45 6910 | | | |
| 10 kΩ | HF45 7100 | HF45 7100 | | | |

※ : Not available

• OVERALL ASSEMBLY



| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|---|---------|----------|------------------------------|-------------------|---------------|--------------|---------------|
| * | 1-1 | ZA305000 | P. C. B. ASSEMBLY | OPERATION | | J | PCB OPERATION |
| * | 1-1 | ZA305100 | P. C. B. ASSEMBLY | OPERATION | | UC | PCB OPERATION |
| * | 1-1 | ZA305200 | P. C. B. ASSEMBLY | OPERATION | | RS | PCB OPERATION |
| * | 1-1 | ZC223100 | P. C. B. ASSEMBLY | OPERATION | | T | PCB OPERATION |
| * | 1-1 | ZA305300 | P. C. B. ASSEMBLY | OPERATION | | KABGFLH | PCB OPERATION |
| * | 1-2 | WV537800 | FLEXIBLE FLAT CABLE | 17P 180mm P=1. 25 | | | カード電線 |
| | 1-3 | WR382900 | FLEXIBLE FLAT CABLE | 9P 180mm P=1. 25 | | | カード電線 |
| * | 1-4 | ZC601400 | FRONT PANEL | | GD (Gold) | | フロントパネル |
| * | 1-4 | WZ982000 | FRONT PANEL | | BL (Black) | J | フロントパネル |
| * | 1-4 | WZ981800 | FRONT PANEL | | BL (Black) | UCRKABGFLSH | フロントパネル |
| * | 1-4 | ZC600700 | FRONT PANEL | | BL (Black) | T | フロントパネル |
| * | 1-4 | WZ981900 | FRONT PANEL | | TI (Titanium) | | フロントパネル |
| | 1-5 | WT829300 | BUTTON | SCENE | GD (Gold) | | ボタン |
| | 1-5 | WT829100 | BUTTON | SCENE | BL (Black) | | ボタン |
| | 1-5 | WT829200 | BUTTON | SCENE | TI (Titanium) | | ボタン |
| * | 1-6 | WZ199100 | BUTTON | TUNER | | | ボタン |
| | 1-7 | WT829600 | BUTTON | POWER | | | ボタン |
| | 1-12 | WU200600 | EARTH PLATE | | | | アースプレート |
| * | 1-13 | WZ983200 | WINDOW SHEET | | RX-V373 | JUCKRABGFLSH | ウインドウシート |
| * | 1-13 | WZ983300 | WINDOW SHEET | | HTR-3065 | UCKRKABGFLSH | ウインドウシート |
| * | 1-13 | ZC594700 | WINDOW SHEET | | RX-V373 | T | ウインドウシート |
| * | 1-13 | ZC594800 | WINDOW SHEET | | HTR-3065 | T | ウインドウシート |
| | 1-25 | WE774800 | BIND HEAD P-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドPタイトネジ |
| * | 2-1 | ZA304300 | P. C. B. ASSEMBLY | MAIN | | J | PCB MAIN |
| * | 2-1 | ZA304400 | P. C. B. ASSEMBLY | MAIN | | UC | PCB MAIN |
| * | 2-1 | ZA304500 | P. C. B. ASSEMBLY | MAIN | | RS | PCB MAIN |
| * | 2-1 | ZA304600 | P. C. B. ASSEMBLY | MAIN | | KABGFLH | PCB MAIN |
| | 2-20 | WG451000 | TRANSISTOR SUPPORT | 5P | | | トランジスタサポート |
| | 2-21 | WT832200 | TRANSISTOR SUPPORT | 2P | | | トランジスタサポート |
| | 2-22 | WW117500 | P. C. B. SUPPORT | | | | PCBサポート |
| | 2-103 | WE774600 | HEXAGONAL HEAD B-TIGHT SCREW | 3x18 MFZN2W3 | | | ＋穴付き六角Bタイトネジ |
| | 2-104 | WF002600 | PW HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | PWヘッドBタイトネジ |
| | 2-105 | WE774300 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドBタイトネジ |
| * | 7 | ZA305400 | P. C. B. ASSEMBLY | DIGITAL | | JUCKRABGFLSH | PCB DIGITAL |
| * | 7 | ZC223400 | P. C. B. ASSEMBLY | DIGITAL | | T | PCB DIGITAL |
| | 12 | WY196500 | AM/FM TUNER | KST-MW004MS1-S89S | | JUCRLSH | AM／FMチューナー |
| | 12 | WY196600 | AM/FM TUNER | KST-MW104MS1-S89 | | KABGF | AM／FMチューナー |
| △ | * | YE153A00 | POWER TRANSFORMER | | | J | 電源トランス |
| △ | * | YE154A00 | POWER TRANSFORMER | | | UC | 電源トランス |
| △ | * | YE158A00 | POWER TRANSFORMER | | | RS | 電源トランス |
| △ | * | YE156A00 | POWER TRANSFORMER | | | TK | 電源トランス |
| △ | * | YE157A00 | POWER TRANSFORMER | | | ALH | 電源トランス |
| △ | * | YE155A00 | POWER TRANSFORMER | | | BGF | 電源トランス |
| △ | 16 | WR636300 | POWER CABLE | 1. 8m | | J | 電源コード |
| △ | 16 | WB120500 | POWER CABLE | 2m | | UC | 電源コード |
| △ | 16 | WC992700 | POWER CABLE | 2m | | R | 電源コード |
| △ | 16 | WV836600 | POWER CABLE | 2m | | T | 電源コード |
| △ | 16 | WC753000 | POWER CABLE | 2m | | K | 電源コード |
| △ | 16 | WC743700 | POWER CABLE | 2m | | A | 電源コード |
| △ | 16 | WB212200 | POWER CABLE | 2m | | B | 電源コード |
| △ | 16 | WB212300 | POWER CABLE | 2m | | GFL | 電源コード |
| △ | * | ZC898500 | POWER CABLE | 1. 8m | | S | 電源コード |
| △ | 16 | WY094600 | POWER CABLE | 1. 8m | | H | 電源コード |
| | 17 | V2438700 | CORD STOPPER | 10P1 | | | コードストッパー |
| | 20 | WV528500 | FLEXIBLE FLAT CABLE | 9P 90mm P=1. 25 | | | カード電線 |

* New Parts *新規部品

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ランク |
|---|---------|----------|------------------------------|---------------------|--------------------------|--------------|------------------|
| | 21 | WR395700 | FLEXIBLE FLAT CABLE | 21P 100mm P=1. 25 | | | カード電線 |
| | 22 | WR386600 | FLEXIBLE FLAT CABLE | 13P 70mm P=1. 25 | | | カード電線 |
| | 101 | WT825100 | TOP COVER | | GD (Gold) | | トップカバー |
| | 101 | WT824900 | TOP COVER | | BL (Black) | | トップカバー |
| | 101 | WT825000 | TOP COVER | | TI (Titanium) | | トップカバー |
| * | 103 | WZ983400 | REAR PANEL | | RX-V373 | J | リアパネル |
| * | 103 | WZ983500 | REAR PANEL | | RX-V373 | UC | リアパネル |
| * | 103 | WZ984100 | REAR PANEL | | HTR-3065 | UC | リアパネル |
| * | 103 | WZ983600 | REAR PANEL | | RX-V373 | RS | リアパネル |
| * | 103 | WZ984200 | REAR PANEL | | HTR-3065 | RS | リアパネル |
| * | 103 | ZC255600 | REAR PANEL | | RX-V373 | T | リアパネル |
| * | 103 | ZC255700 | REAR PANEL | | HTR-3065 | T | リアパネル |
| * | 103 | WZ983700 | REAR PANEL | | RX-V373 | K | リアパネル |
| * | 103 | WZ984300 | REAR PANEL | | HTR-3065 | K | リアパネル |
| * | 103 | WZ983800 | REAR PANEL | | RX-V373 | A | リアパネル |
| * | 103 | WZ984400 | REAR PANEL | | HTR-3065 | A | リアパネル |
| * | 103 | WZ983900 | REAR PANEL | | RX-V373 | BGF | リアパネル |
| * | 103 | WZ984500 | REAR PANEL | | HTR-3065 | BGF | リアパネル |
| * | 103 | WZ984000 | REAR PANEL | | RX-V373 | LH | リアパネル |
| * | 103 | WZ984600 | REAR PANEL | | HTR-3065 | LH | リアパネル |
| | 109 | WA796100 | P. C. B. SUPPORT | | | | PCBサポート |
| | 120 | WY185000 | LEG | D60 H21 black | | | レッグ |
| * | 121 | WZ872400 | KNOB | D52 VOLUME | GD (Gold) | | ノブ |
| * | 121 | WZ872200 | KNOB | D52 VOLUME | BL (Black) | | ノブ |
| * | 121 | WZ872300 | KNOB | D52 VOLUME | TI (Titanium) | | ノブ |
| * | 151 | ZD535600 | CUSHION | 8x25 t=5 | | | クッション |
| | 152 | WP126800 | DAMPER | SCREW MASK | | | ダンパー |
| | 156 | WR306100 | SHEET | TOP COVER | | LH | シート |
| | 157 | WJ323900 | RIVET | TOP COVER | | LH | リベット |
| | 160 | WE774100 | BIND HEAD BONDING B-T. SCREW | 3x8 MFZN2B3 | | | ボンディングBタイトネジ |
| | 163 | WE774300 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドBタイトネジ |
| | 165 | WE877900 | BIND HEAD S-TIGHT SCREW | 3x6 MFZN2W3 | | | バインドSタイトネジ |
| | 167 | WF002600 | PW HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | PWヘッドBタイトネジ |
| | 168 | WE774600 | HEXAGONAL HEAD B-TIGHT SCREW | 3x18 MFZN2W3 | | | 六角Bタイトネジ |
| | 170 | WE774700 | BIND HEAD S-TIGHT SCREW | 4x10 MFZN2W3 | | | バインドSタイトネジ |
| | 171 | VD069600 | PW HEAD S-TIGHT SCREW | 4x8-10 MFN133 | GD (Gold), TI (Titanium) | | PWヘッドSタイトネジ |
| | 171 | VH313200 | PW HEAD S-TIGHT SCREW | 4x8-10 MFN13BL | BL (Black) | | PWヘッドSタイトネジ |
| | | | ACCESSORIES | | | | 付属品 |
| * | 200 | ZA113500 | REMOTE CONTROL | RAV463 | 000-213240080 | JUCKRABGFLSH | リモコン |
| * | 200 | ZA113400 | REMOTE CONTROL | RAV462 | 000-213210050 | T | リモコン |
| * | 200 | ZA113300 | REMOTE CONTROL | RAV461 | 000-213210040 | A | リモコン |
| | 200-1 | AAX82380 | BATTERY COVER | Black | CG-2209 | | 電池蓋 |
| | 202 | WB212500 | FM ANTENNA | 1. 4m 1pc | | JUCRTLSH | FMアンテナ |
| | 202 | WB212400 | FM ANTENNA | 1. 4m 1pc | | KABGF | FMアンテナ |
| | 203 | WY296700 | AM ANTENNA | 1. 3m 1pc | S0160BL-26 | | AMアンテナ |
| | 204 | WN649600 | YPAO MICROPHONE | 6. 0m 1pc | EM6022L-HN1700 | | YPAOマイク |
| * | 205 | ZC363100 | REMOTE CONTROL SHEET | 1pc | | T | リモコンシート |
| * | | | BATTERY | R03, AAA, UM-4 2pcs | | | 単4乾電池 |
| | | | SERVICE TOOL | | | | サービスツール |
| | | WW483800 | P. C. B. CHECKING JIG | | | | P. C. B. チェック用治具 |

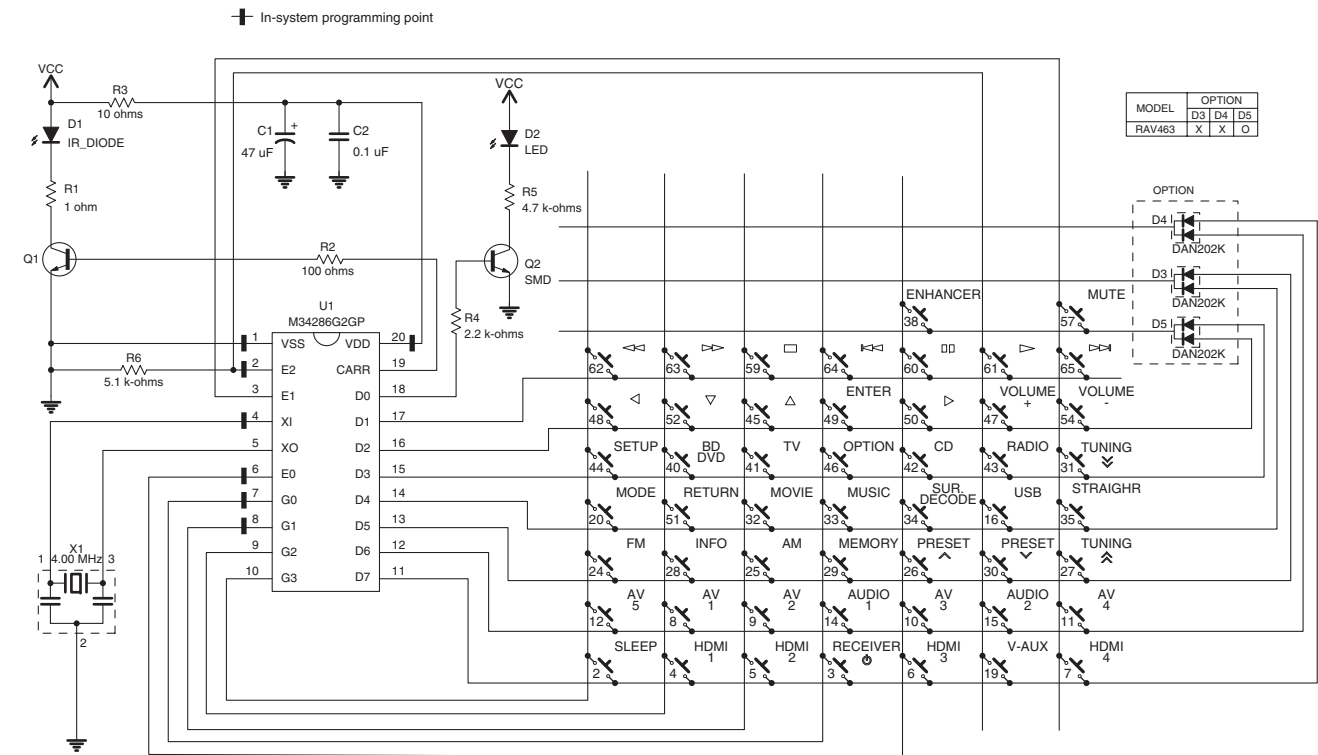
* New Parts *新規部品

REMOTE CONTROL

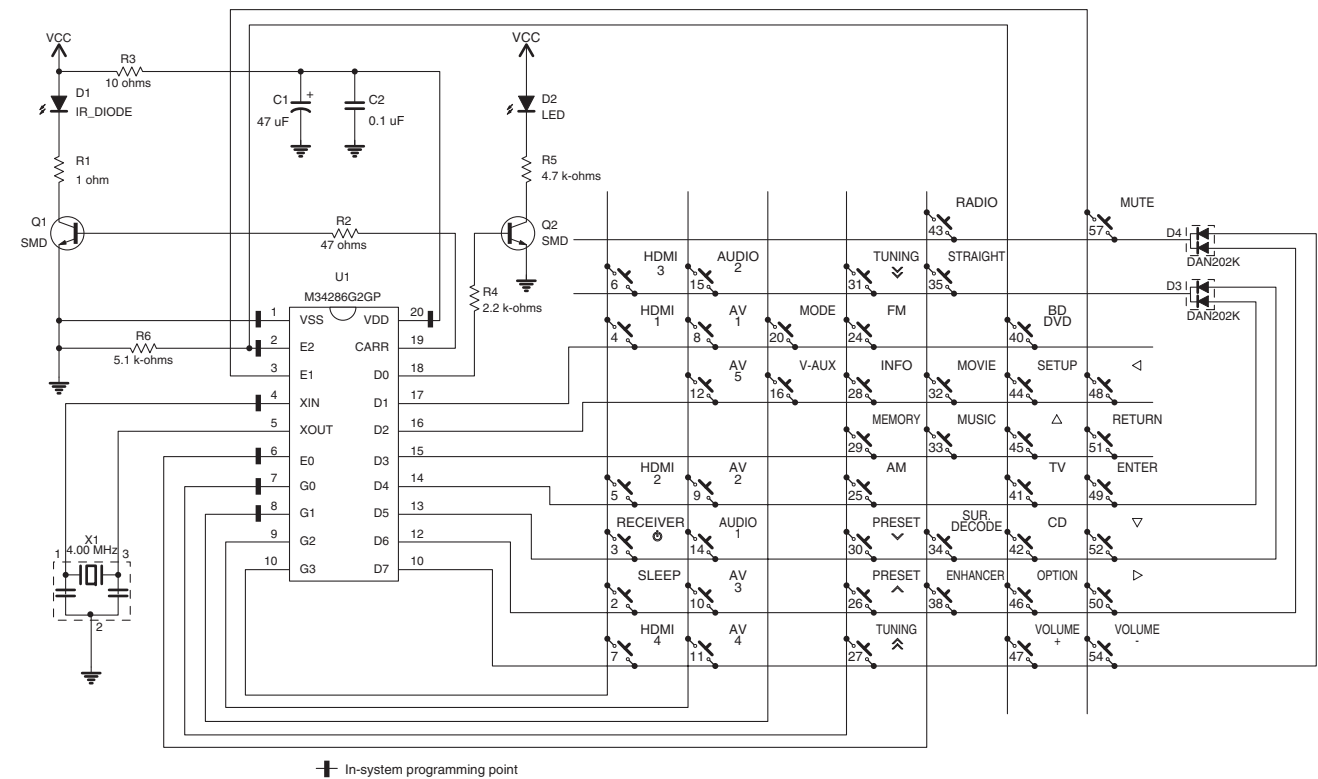
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SCHEMATIC DIAGRAMS

RAV463



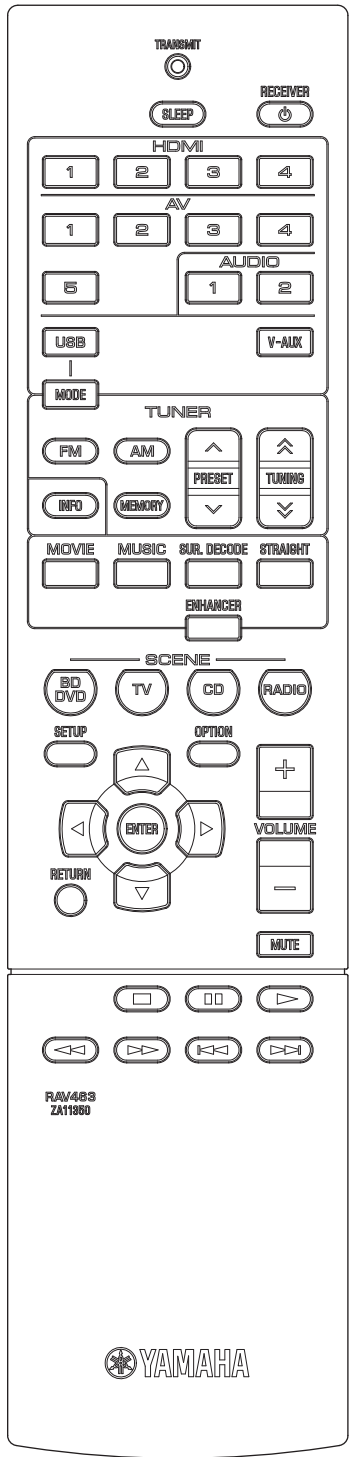
RAV462



PANELS

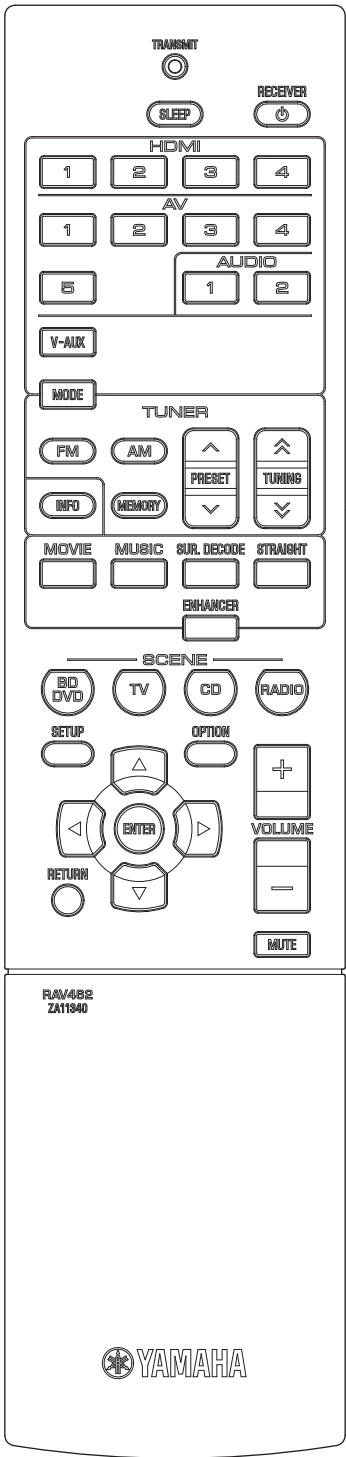
RAV463

(U, C, R, K, B, G, F, L, S, H, J models)

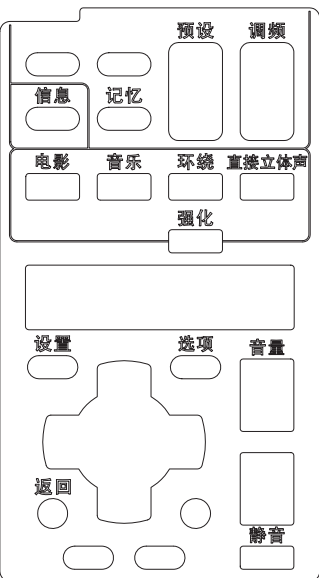


RAV462

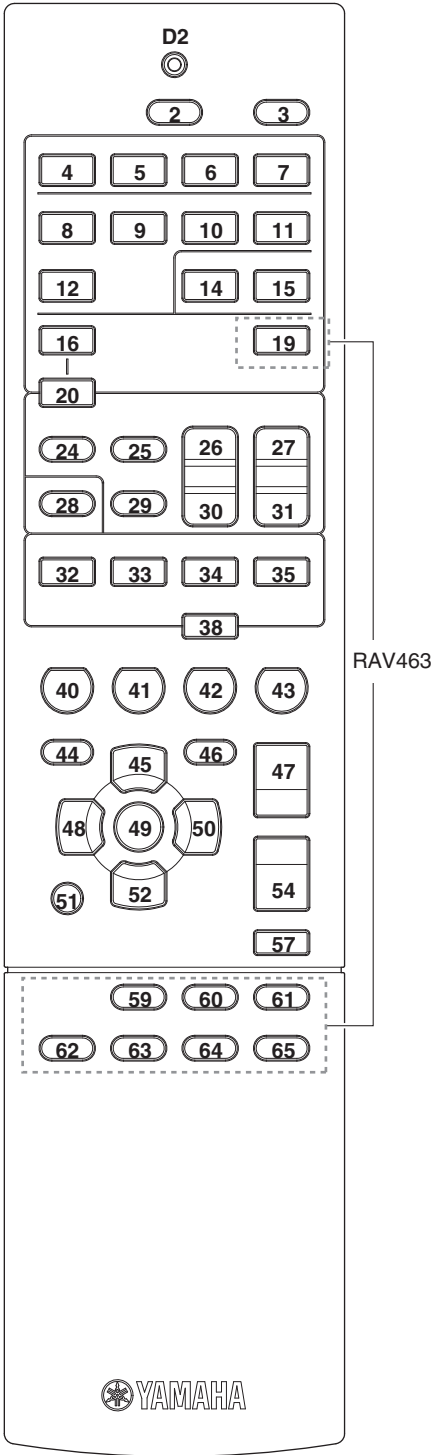
(T model)



Remote control sheet



KEY NO. LAYOUT
RAV463, RAV462

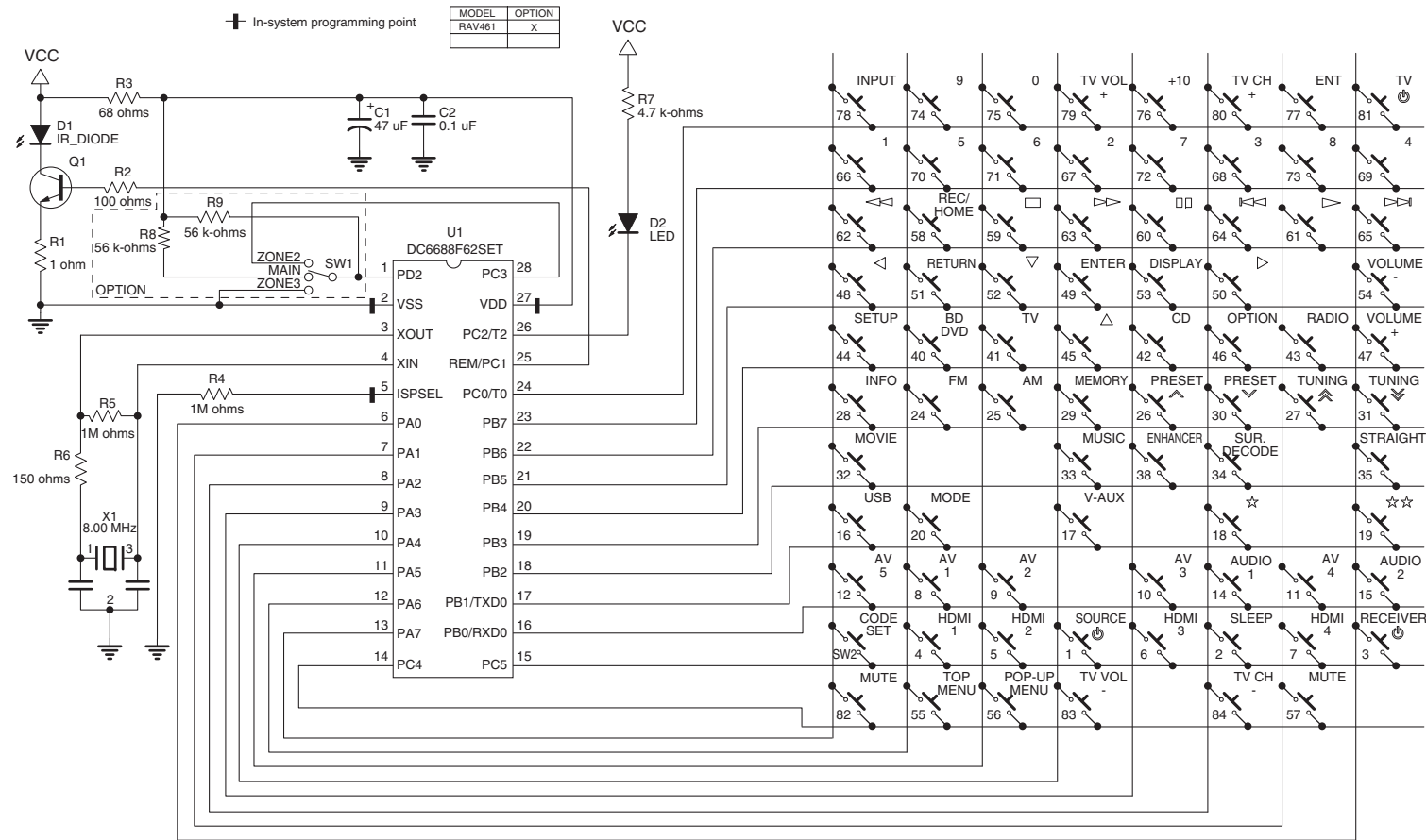


KEY CODE
RAV463, RAV462

| | Key No. | FUNCTION | | | ID-1 | ID-2 |
|----------------------------|---------|--|------------------|----------------------|-----------|-----------|
| | | RAV463
(U, C, R, K, B, G, F, L, S, H, J models) | RAV462 (T model) | Remote control sheet | MAIN | MAIN |
| "RECEIVER"
(mode fixed) | LED1 | TRANSMIT | TRANSMIT | | – | – |
| | K2 | SLEEP | SLEEP | | 7A-30 | 7A-30CE |
| | K3 | RECEIVER | RECEIVER | | 7E-2A | 7E-2AD4 |
| | K4 | HDMI-1 | HDMI-1 | | 7A-4738 | 7A-4739 |
| | K5 | HDMI-2 | HDMI-2 | | 7A-4A35 | 7A-4A34 |
| | K6 | HDMI-3 | HDMI-3 | | 7A-4D32 | 7A-4D33 |
| | K7 | HDMI-4 | HDMI-4 | | 7A-502F | 7A-502E |
| | K8 | AV-1 | AV-1 | | 7A-532C | 7A-532D |
| | K9 | AV-2 | AV-2 | | 7A-5629 | 7A-5628 |
| | K10 | AV-3 | AV-3 | | 7A-5926 | 7A-5927 |
| | K11 | AV-4 | AV-4 | | 7A-5C23 | 7A-5C22 |
| | K12 | AV-5 | AV-5 | | 7A-5F20 | 7A-5F21 |
| | K14 | AUDIO-1 | AUDIO-1 | | 7A-651A | 7A-651B |
| | K15 | AUDIO-2 | AUDIO-2 | | 7A-6817 | 7A-6816 |
| | K16 | USB | – | | 7F01-720D | 7F01-720C |
| | | – | V-AUX | | 7A-55 | 7A-55AB |
| | K19 | V-AUX | – | | 7A-55 | 7A-55AB |
| | K20 | MODE | MODE | | 7F01-66 | 7F01-6698 |
| | K24 | FM | FM | | 7F01-5827 | 7F01-5826 |
| | K25 | AM | AM | | 7F01-552A | 7F01-552B |
| | K26 | PRESET | PRESET | 预设 | 7F01-5B24 | 7F01-5B25 |
| | K27 | TUNING | TUNING | 调频 | 7F01-611E | 7F01-611F |
| | K28 | INFO | INFO | 信息 | 7A-2758 | 7A-2759 |
| | K29 | MEMORY | MEMORY | 记忆 | 7F01-6718 | 7F01-6719 |
| | K30 | PRESET | PRESET | 预设 | 7F01-5E21 | 7F01-5E20 |
| | K31 | TUNING | TUNING | 调频 | 7F01-641B | 7F01-641A |
| | K32 | MOVIE | MOVIE | 电影 | 7A-88 | 7A-8876 |
| | K33 | MUSIC | MUSIC | 音乐 | 7A-89 | 7A-8977 |
| | K34 | SUR. DECODE | SUR. DECODE | 环绕 | 7A-8D | 7A-8D73 |
| | K35 | STRAIGHT | STRAIGHT | 直接立体声 | 7A-56 | 7A-56A8 |
| | K38 | ENHANCER | ENHANCER | 强化 | 7A-94 | 7A-946A |
| | K40 | BD/DVD (SCENE) | BD/DVD (SCENE) | | 7A-007F | 7A-007E |
| | K41 | TV (SCENE) | TV (SCENE) | | 7A-037C | 7A-037D |
| | K42 | CD (SCENE) | CD (SCENE) | | 7A-0679 | 7A-0678 |
| | K43 | RADIO (SCENE) | RADIO (SCENE) | | 7A-0976 | 7A-0977 |
| | K44 | SETUP | SETUP | 设置 | 7A-84 | 7A-847A |
| | K45 | △ (UP) | △ (UP) | | 7A-9D | 7A-9D63 |
| | K46 | OPTION | OPTION | 选项 | 7A-6B14 | 7A-6B15 |
| | K47 | VOLUME (+) | VOLUME (+) | 音量 | 7A-1A | 7A-1AE4 |

| | Key No. | FUNCTION | | | ID-1 | ID-2 |
|---------------------------------------|---------|--|------------------|----------------------|---------|-----------|
| | | RAV463
(U, C, R, K, B, G, F, L, S, H, J models) | RAV462 (T model) | Remote control sheet | MAIN | MAIN |
| "RECEIVER"
(mode fixed) | K48 | ◀ (LEFT) | ◀ (LEFT) | | 7A-9F | 7A-9F61 |
| | K49 | ENTER | ENTER | | 7A-DE | 7A-DE20 |
| | K50 | ▶ (RIGHT) | ▶ (RIGHT) | | 7A-9E | 7A-9E60 |
| | K51 | RETURN | RETURN | 返回 | 7A-AA | 7A-AA54 |
| | K52 | ▽ (DOWN) | ▽ (DOWN) | | 7A-9C | 7A-9C62 |
| | K54 | VOLUME (-) | VOLUME (-) | 音量 | 7A-1B | 7A-1BE5 |
| | K57 | MUTE | MUTE | 静音 | 7A-1C | 7A-1CE2 |
| | K59 | □ (STOP) | – | | 7F01-69 | 7F01-6997 |
| | K60 | ⏸ (PAUSE) | – | | 7F01-67 | 7F01-6799 |
| | K61 | ▶ (PLAY) | – | | 7F01-68 | 7F01-6896 |
| | K62 | ◀◀ (REW) | – | | 7F01-6A | 7F01-6A94 |
| | K63 | ▶▶ (FF) | – | | 7F01-6B | 7F01-6B95 |
| | K64 | ⏮ (SKIP -) | – | | 7F01-6C | 7F01-6C92 |
| | K65 | ⏭ (SKIP +) | – | | 7F01-6D | 7F01-6D93 |
| K48 [◀ (LEFT)] + K40 [SCENE -BD/DVD] | | | | | ID-1 | |
| K48 [◀ (LEFT)] + K41 [SCENE -TV] | | | | | | ID-2 |
| K50 [▶ (RIGHT)] + K40 [SCENE -BD/DVD] | | | | | MAIN | MAIN |

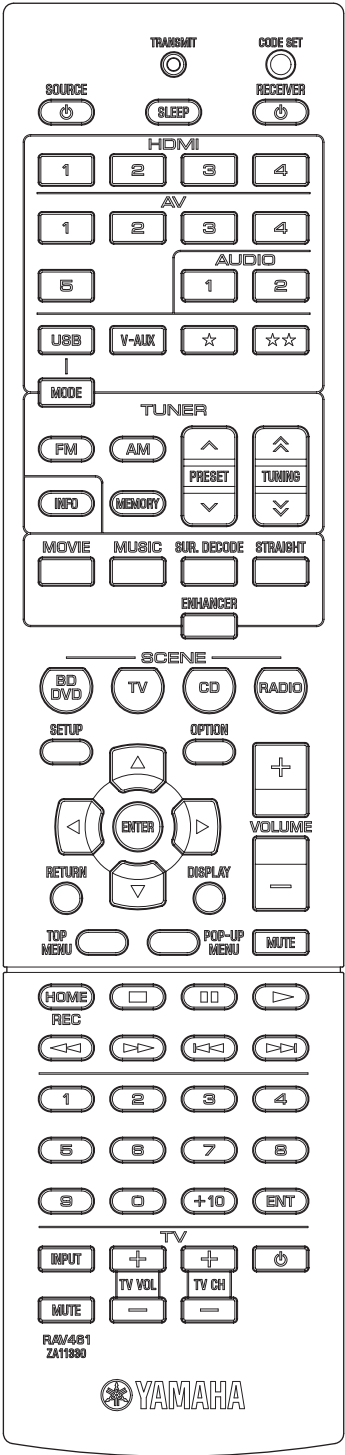
● RAV461: A model
SCHEMATIC DIAGRAM
RAV461



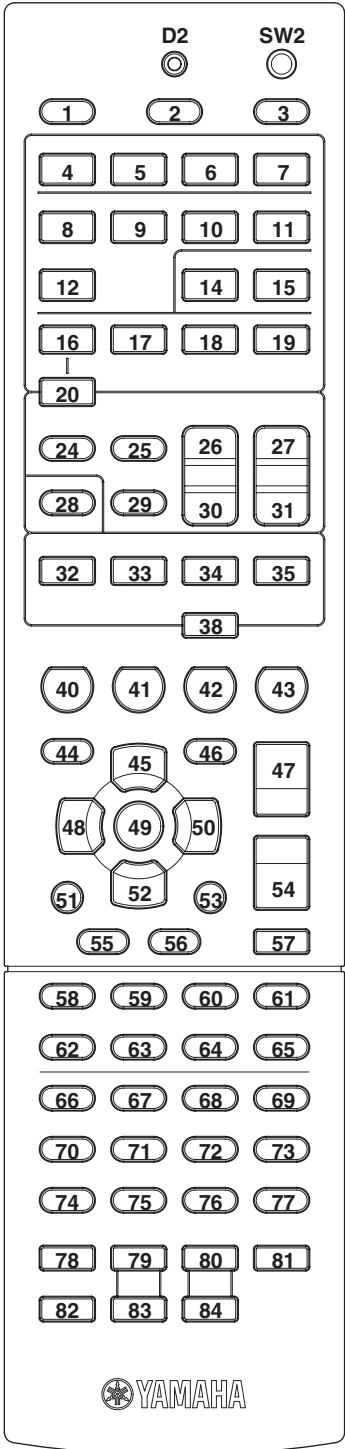
PANEL

RAV461

(A model)



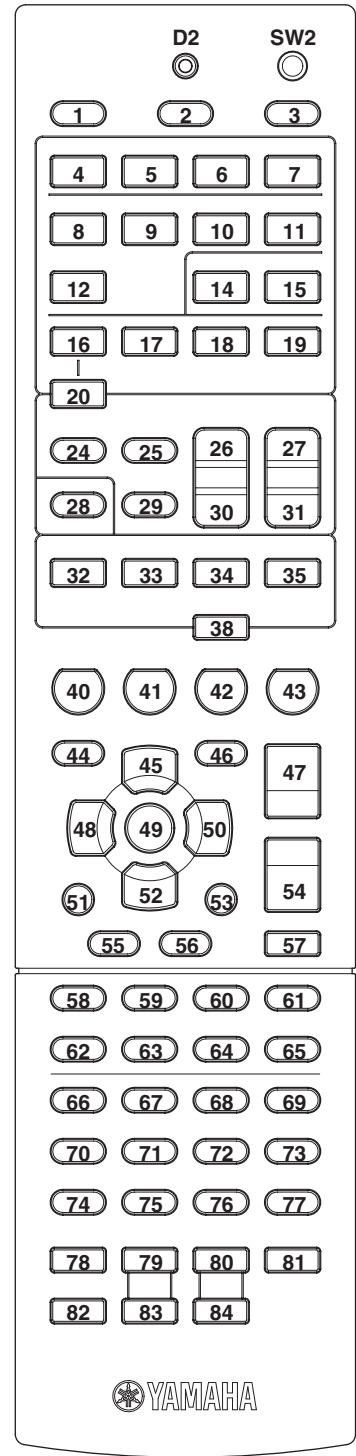
KEY NO. LAYOUT
RAV461



KEY CODE
RAV461
AMP MODE

| | Key No. | FUNCTION | ID-1 (5019) | ID-2 (5020) |
|---------------------------------------|---------|------------------|-------------|-------------|
| | | RAV461 (A model) | MAIN | MAIN |
| "RECEIVER"
(mode fixed) | LED1 | TRANSMIT | – | – |
| | SW2 | CODE SET | [CODE SET] | [CODE SET] |
| | K2 | SLEEP | 7A-30 | 7A-30CE |
| | K3 | RECEIVER | 7E-2A | 7E-2AD4 |
| | K4 | HDMI-1 | 7A-4738 | 7A-4739 |
| | K5 | HDMI-2 | 7A-4A35 | 7A-4A34 |
| | K6 | HDMI-3 | 7A-4D32 | 7A-4D33 |
| | K7 | HDMI-4 | 7A-502F | 7A-502E |
| | K8 | AV-1 | 7A-532C | 7A-532D |
| | K9 | AV-2 | 7A-5629 | 7A-5628 |
| | K10 | AV-3 | 7A-5926 | 7A-5927 |
| | K11 | AV-4 | 7A-5C23 | 7A-5C22 |
| | K12 | AV-5 | 7A-5F20 | 7A-5F21 |
| | K14 | AUDIO-1 | 7A-651A | 7A-651B |
| | K15 | AUDIO-2 | 7A-6817 | 7A-6816 |
| | K16 | USB | 7F01-720D | 7F01-720C |
| | K17 | V-AUX | 7A-55 | 7A-55AB |
| | K18 | ☆ | 7F01-3F | 7F01-3FC1 |
| | K19 | ☆☆ | – | – |
| | K20 | MODE | 7F01-66 | 7F01-6698 |
| | K24 | FM | 7F01-5827 | 7F01-5826 |
| | K25 | AM | 7F01-552A | 7F01-552B |
| | K26 | PRESET | 7F01-5B24 | 7F01-5B25 |
| | K27 | TUNING | 7F01-611E | 7F01-611F |
| | K28 | INFO | 7A-2758 | 7A-2759 |
| | K29 | MEMORY | 7F01-6718 | 7F01-6719 |
| | K30 | PRESET | 7F01-5E21 | 7F01-5E20 |
| | K31 | TUNING | 7F01-641B | 7F01-641A |
| | K32 | MOVIE | 7A-88 | 7A-8876 |
| | K33 | MUSIC | 7A-89 | 7A-8977 |
| | K34 | SUR. DECODE | 7A-8D | 7A-8D73 |
| | K35 | STRAIGHT | 7A-56 | 7A-56A8 |
| | K38 | ENHANCER | 7A-94 | 7A-946A |
| | K40 | BD/DVD (SCENE) | 7A-007F | 7A-007E |
| | K41 | TV (SCENE) | 7A-037C | 7A-037D |
| | K42 | CD (SCENE) | 7A-0679 | 7A-0678 |
| | K43 | RADIO (SCENE) | 7A-0976 | 7A-0977 |
| | K44 | SETUP | 7A-84 | 7A-847A |
| | K46 | OPTION | 7A-6B14 | 7A-6B15 |
| | K47 | VOLUME (+) | 7A-1A | 7A-1AE4 |
| | K54 | VOLUME (-) | 7A-1B | 7A-1BE5 |
| | K57 | MUTE | 7A-1C | 7A-1CE2 |
| K48 [◀ (LEFT)] + K40 [SCENE -BD/DVD] | | | ID-1 | |
| K48 [◀ (LEFT)] + K41 [SCENE -TV] | | | | ID-2 |
| K50 [▶ (RIGHT)] + K40 [SCENE -BD/DVD] | | | MAIN | MAIN |

RAV461



RAV461

SOURCE MODE

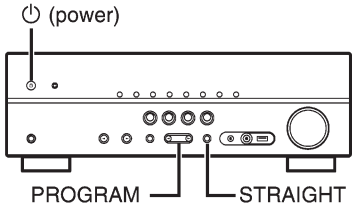
| | Key No. | FUNCTION | IR code in "RECEIVER" mode | | IR code in "SOURCE" mode | K25 | K24 | K19 | K18 | K17 | K16 | K15 | K14 | K12 | K11 | K10 | K9 | K8 | K7 | K6 | K5 | K4 |
|--------------------------|---------|---------------------|--|-----------|--------------------------|-----------------|------|---------|-------|---------|-------|-----------|-----------|--------|--------|---------|--------------|--------|----------|----------|----------|----------|
| | | RAV461
(A model) | ID-1 | ID-2 | ID-1 / ID-2 | [AM] | [FM] | [☆ ☆] | [☆] | [V-AUX] | [USB] | [AUDIO-2] | [AUDIO-1] | [AV-5] | [AV-4] | [AV-3] | [AV-2] | [AV-1] | [HDMI-4] | [HDMI-3] | [HDMI-2] | [HDMI-1] |
| | | | MAIN | MAIN | MAIN | | | | | | | | | | | | | | | | | |
| "SOURCE/RCVR" | K1 | SOURCE | 7F01-50 | 7F01-50AE | * SOURCE * | * RECEIVER * | | | | | | | | | | 79-60 | * RECEIVER * | | | | | |
| | K45 | △ (UP) | 7A-9D | 7A-9D63 | * SOURCE * | * RECEIVER * | | | | | | | | | | — | * RECEIVER * | | | | | |
| | K48 | ◁ (LEFT) | 7A-9F | 7A-9F61 | | | | | | | | | | | | — | | | | | | |
| | K49 | ENTER | 7A-DE | 7A-DE20 | | | | | | | | | | | | — | | | | | | |
| | K50 | ▷ (RIGHT) | 7A-9E | 7A-9E60 | | | | | | | | | | | | — | | | | | | |
| | K51 | RETURN | 7A-AA | 7A-AA54 | | | | | | | | | | | | — | | | | | | |
| | K52 | ▽ (DOWN) | 7A-9C | 7A-9C62 | | | | | | | | | | | | — | | | | | | |
| | K53 | DISPLAY | 7F01-60 | 7F01-609E | | | | | | | | | | | | 79-0A | | | | | | |
| | K55 | TOP MENU | 7A-A0DF | 7A-A0DE | * SOURCE * | * RECEIVER * | | | | | | | | | | — | * RECEIVER * | | | | | |
| | K56 | POP-UP MENU | 7A-A4DB | 7A-A4DA | | | | | | | | | | | | — | | | | | | |
| | | | * Transmit "RECEIVER" code then switch the remote control to "SOURCE" mode | | | | | | | | | | | | | | | | | | | |
| | | | * Transmit "RECEIVER" code then switch the remote control to "SOURCE" mode | | | | | | | | | | | | | | | | | | | |
| | K58 | HOME/REC | 7F01-66 | 7F01-6698 | * SOURCE * | * RECEIVER * | | | | | | | | | | 7A-4F | * RECEIVER * | | | | | |
| | K59 | □ (STOP) | 7F01-69 | 7F01-6997 | | | | | | | | | | | | 7A-09 | | | | | | |
| | K60 | ⏸ (PAUSE) | 7F01-67 | 7F01-6799 | | | | | | | | | | | | 7A-09 | | | | | | |
| | K61 | ▷ (PLAY) | 7F01-68 | 7F01-6896 | | | | | | | | | | | | 7A-08 | | | | | | |
| | K62 | ◀◀ (REW) | 7F01-6A | 7F01-6A94 | | | | | | | | | | | | 7A-0D | | | | | | |
| | K63 | ▶▶ (FF) | 7F01-6B | 7F01-6B95 | | | | | | | | | | | | 7A-0C | | | | | | |
| | K64 | ⏮ (SKIP -) | 7F01-6C | 7F01-6C92 | | | | | | | | | | | | 7A-0B | | | | | | |
| | K65 | ⏭ (SKIP +) | 7F01-6D | 7F01-6D93 | 7A-0A | | | | | | | | | | | | | | | | | |
| | K66 | 1 | 7F01-51 | 7F01-51AF | * SOURCE * | * RECEIVER * | | | | | | | | | | 79-11 | * RECEIVER * | | | | | |
| | K67 | 2 | 7F01-52 | 7F01-52AC | | | | | | | | | | | | 79-12 | | | | | | |
| | K68 | 3 | 7F01-53 | 7F01-53AD | | | | | | | | | | | | 79-13 | | | | | | |
| | K69 | 4 | 7F01-54 | 7F01-54AA | | | | | | | | | | | | 79-14 | | | | | | |
| | K70 | 5 | 7F01-55 | 7F01-55AB | | | | | | | | | | | | 79-15 | | | | | | |
| | K71 | 6 | 7F01-56 | 7F01-56A8 | | | | | | | | | | | | 79-16 | | | | | | |
| | K72 | 7 | 7F01-57 | 7F01-57A9 | | | | | | | | | | | | 79-17 | | | | | | |
| | K73 | 8 | 7F01-58 | 7F01-58A6 | | | | | | | | | | | | 79-18 | | | | | | |
| | K74 | 9 | 7F01-59 | 7F01-59A7 | | | | | | | | | | | | 79-19 | | | | | | |
| | K75 | 0 | 7F01-5A | 7F01-5AA4 | | | | | | | | | | | | 79-10 | | | | | | |
| | K76 | +10 | 7F01-5B | 7F01-5BA5 | | | | | | | | | | | | 79-1A | | | | | | |
| K77 | ENT | 7F01-5C | 7F01-5CA2 | 79-0B | | | | | | | | | | | | | | | | | | |
| "SOURCE"
(mode fixed) | K78 | TV -INPUT | * SOURCE (TV) * | | | * TV -INPUT | | | | | | | | | | | | | | | | |
| | K79 | TV -VOL (+) | | | | * TV -VOL (+) | | | | | | | | | | | | | | | | |
| | K80 | TV -CH (+) | | | | * TV -CH (+) | | | | | | | | | | | | | | | | |
| | K81 | TV | | | | * TV | | | | | | | | | | | | | | | | |
| | K82 | TV -MUTE | | | | * TV -MUTE | | | | | | | | | | | | | | | | |
| | K83 | TV -VOL (-) | | | | * TV -VOL (-) | | | | | | | | | | | | | | | | |
| | K84 | TV -CH (-) | | | | * TV -CH (-) | | | | | | | | | | | | | | | | |

■ CONFIGURING THE SYSTEM SETTINGS

Configure the system settings of the unit while viewing the front display.

- 1

Set the unit to standby mode.
- 2

While holding down STRAIGHT on the front panel, press  (power).
- 
- 3

Press PROGRAM to select an item.
- 4

Press STRAIGHT to select a setting.
- 5

Press  (power) to set the unit to standby mode and turn it on again.

The new settings take effect.

ADVANCED SETUP menu items

| Item | Function |
|---------------------------------|---|
| SP IMP.
(U, C models) | Changes the speaker impedance setting. |
| REMOTE ID | Selects the unit's remote control ID. |
| TU
(R, T, K, L, S, H models) | Changes the FM/AM tuning frequency setting. |
| TV FORMAT | Switches the video signal type of HDMI output. |
| INIT | Restores the default settings. |
| UPDATE | Updates the firmware. |
| VERSION | Checks the version of firmware currently installed on the unit. |

Changing the speaker impedance setting (SP IMP.)

(U, C models)



Change the unit's speaker impedance settings depending on the impedance of the speakers connected.

| Settings | |
|-------------------|--|
| 6 Ω MIN | Select this option when you connect 6-ohm speakers to the unit. You can also use 4-ohm speakers as the front speakers. |
| 8 Ω MIN (default) | Select this option when you connect 8-ohm or higher speakers to the unit. |

Selecting the remote control ID (REMOTE ID)



Change the unit's remote control ID so that it matches the remote control's ID (default: ID1). When using multiple Yamaha AV receivers, you can set each remote control with a unique remote control ID for its corresponding receiver.

| Settings |
|--------------------|
| ID1 (default), ID2 |

■ Changing the remote control ID of the remote control



- (Australia model only)
For information on how to change the remote control ID of the remote control, refer to “Supplement for Remote Control” on the supplied CD-ROM.

- 1

To select ID1, hold down the cursor key (<) and SCENE (BD/DVD) together for 3 seconds.
To select ID2, hold down the cursor key (<) and SCENE (TV) together for 3 seconds.

Changing the FM/AM tuning frequency setting (TU)

(R, T, K, L, S, H models)



Change the FM/AM tuning frequency setting of the unit depending on your listening environment.

| Settings | |
|--------------------|---|
| FM100/AM10 | Select this when you want to adjust the FM frequency by 100-kHz steps and AM by 10-kHz steps. |
| FM50/AM9 (default) | Select this when you want to adjust the FM frequency by 50-kHz steps and AM by 9-kHz steps. |

Switching the video signal type (TV FORMAT)



Switch the video signal type of HDMI output so that it matches to the format of your TV. Since the unit automatically selects the video signal type so that it matches to the TV, it is unnecessary to change the setting normally. Change the setting only when images on the TV screen do not appear correctly.

| Settings |
|---|
| NTSC, PAL |
| Default |
| U, C, R, K, S models: NTSC
T, A, B, G, F, L, H models: PAL |

Restoring the default settings (INIT)

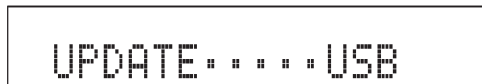


Restores the default settings for the unit.

| Choices | |
|---------|---|
| ALL | Restores the default settings for the unit. |
| CANCEL | Does not perform an initialization. |

Updating the firmware (UPDATE)

(U, C, R, K , A, B, G, F, L, S, H models)



New firmware that provides additional features or product improvements will be released as needed. Updates can be downloaded from our website. For details, refer to the information supplied with updates.

■ Firmware update procedure

Do not perform this procedure unless firmware update is necessary. Also, make sure you read the information supplied with updates before updating the firmware.

- 1

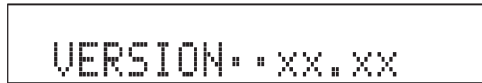
Save the downloaded firmware to the root folder of a USB memory device.
- 2

Press PROGRAM on the front panel to select “UPDATE”.
- 3

Connect the USB memory device to the USB jack.
- 4

To start firmware update, press INFO on the front panel.

Checking the firmware version (VERSION)



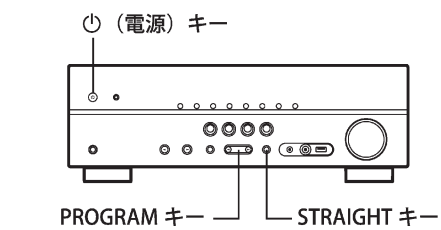
Check the version of firmware currently installed on the unit.

■ システム設定を変更する

前面ディスプレイを見ながら、本機のシステム設定を変更します。

1 本機の電源が入っている場合は、電源をスタンバイにする。

2 前面の STRAIGHT キーを押しながら **⏻**（電源）キーを押す。



3 PROGRAM キーで設定項目を選ぶ。

4 STRAIGHT キーで設定値を選ぶ。

5 **⏻**（電源）キーで、電源をスタンバイにしてから再度電源を入れる。
設定変更が反映されます。

アドバンスドセットアップメニューでできること

| 項目 | 説明 |
|-----------|------------------------------------|
| REMOTE ID | 本体側のリモコン ID を変更します。 |
| INIT | 各種設定を初期化します。 |
| UPDATE | ファームウェアを更新します。 |
| VERSION | 本機にインストールされているファームウェアのバージョンを表示します。 |

リモコン ID の変更（REMOTE ID）

REMOTE ID・・ID1

リモコン側のリモコン ID（初期値：ID1）と一致するよう、本体側のリモコン ID を変更します。

複数のヤマハ製 AV レシーバーをお使いの場合、それぞれのリモコンで各レシーバーを操作するために、リモコン ID が重ならないように設定します。

| 設定値 |
|--------------|
| ID1（初期値）、ID2 |

■ リモコン側のリモコン ID 設定

各手順を 1 分以内に操作してください。前の手順から 1 分経過すると設定が中止されます。

1 ボールペンなどの先の細長いもので、リモコンの CODE SET ボタンを押す。

2 SOURCE/RECEIVER キーを押す。

3 数字キーで「5019」（ID1 に設定）または「5020」（ID2 に設定）を入力する。

設定が完了すると、SOURCE/RECEIVER キーが 2 回点滅します。

6 回点滅した場合は設定失敗です。手順 1 からやり直してください。

設定の初期化（INIT）

INIT・・・・CANCEL

本機の各種設定を初期化します。

| 選択項目 | |
|--------|---------------|
| ALL | すべての設定を初期化する。 |
| CANCEL | 初期化しない。 |

ファームウェアの更新（UPDATE）

UPDATE・・・・・USB

機能の追加や不具合の改善に応じて、新しいファームウェアを提供します。ファームウェアは弊社ウェブサイトからダウンロードできます。詳しくは、ファームウェア更新時に提供される情報をご確認ください。

■ ファームウェアの更新手順

ファームウェア更新時以外は実行しないでください。また実行前に、更新時に提供される情報を必ずご確認ください。

1 ダウンロードしたファームウェアを USB メモリーのルートフォルダに保存する。

2 前面の PROGRAM キーで「UPDATE」を選ぶ。

3 USB メモリーを USB 端子に接続する。

4 ファームウェアの更新を実行するには、前面の INFO キーを押す。

ファームウェアバージョンの確認（VERSION）

VERSION・・XX.XX

本機にインストールされているファームウェアのバージョンを表示します。

MEMO

RX-V373/HTR-3065



YAMAHA
