

## VR-5000 Component Application

| Location | Type     | Nomenclature | Application |
|----------|----------|--------------|-------------|
| D 2001   | DIODE    | DAN235U TL   | SW          |
| D 2002   | DIODE    | DAN235U TL   | SW          |
| D 2004   | DIODE    | HVU355TRF    | BPF         |
| D 2005   | DIODE    | HVU355TRF    | BPF         |
| D 2006   | DIODE    | 1SS355       | PROTECT     |
| D 2007   | DIODE    | HVM17        | BPF         |
| D 2008   | VARISTOR | MA28T-A      | LOCAL OSC   |
| D 2009   | DIODE    | 1SS355       | PROTECT     |
| D 2010   | DIODE    | 1SS355       | PROTECT     |
| D 2011   | DIODE    | HVU355       | BPF         |
| D 2012   | DIODE    | HVU355       | BPF         |
| D 2013   | DIODE    | HVM17        | BPF         |
| D 2014   | DIODE    | HVU359       | LOCAL OSC   |
| D 2015   | DIODE    | HVU359       | LOCAL OSC   |
| D 2016   | DIODE    | 1SS355       | PROTECT     |
| D 2017   | DIODE    | 1SS318       | SW          |
| D 2018   | DIODE    | 1SS318       | SW          |
| D 2019   | DIODE    | DAN235U      | SW          |
| D 2020   | DIODE    | DAN235U      | SW          |
| D 2021   | DIODE    | DAN235U      | SW          |
| D 2022   | DIODE    | 1SS318       | SW          |
| D 2023   | DIODE    | 1SS318       | SW          |
| D 2024   | DIODE    | HVU350       | REF. OSC    |
| D 2025   | DIODE    | HVU350       | REF. OSC    |
| D 2026   | DIODE    | HVU359       | BPF         |
| D 2027   | DIODE    | HVU359       | BPF         |
| D 2028   | DIODE    | HVR100       | BPF         |
| D 2030   | DIODE    | HVM17        | BPF         |
| D 2031   | DIODE    | HVM17        | BPF         |
| D 2032   | DIODE    | 1SS355       | LOCAL OSC   |
| D 2033   | DIODE    | SVC341L      | BPF         |
| D 2034   | DIODE    | HVU359       | BPF         |
| D 2035   | DIODE    | HVU355       | VCO         |
| D 2036   | DIODE    | HVU359       | BPF         |
| D 2037   | DIODE    | HVM17        | BPF         |
| D 2038   | DIODE    | HVR100       | BPF         |
| D 2039   | DIODE    | HVM17        | BPF         |
| D 2040   | DIODE    | SVC341L      | BPF         |
| D 2041   | DIODE    | DAN235U      | SW          |
| D 2042   | DIODE    | DAN235U      | SW          |
| D 2043   | DIODE    | 1SS318       | SW          |
| D 2044   | DIODE    | 1SS318       | SW          |
| D 2045   | DIODE    | 1SS318       | SW          |
| D 2046   | DIODE    | 1SS318       | SW          |
| D 2047   | DIODE    | 1SS318       | SW          |
| D 2048   | DIODE    | 1SS318       | SW          |
| D 2049   | DIODE    | 1SS318       | SW          |
| D 2050   | DIODE    | 1SS355       | CONTROL     |
| D 2051   | DIODE    | HVU355       | VCO         |
| D 2052   | DIODE    | 1SS355       | CONTROL     |
| D 2053   | DIODE    | HVU359       | VCO         |
| D 2054   | DIODE    | 1SS318       | SW          |
| D 2056   | DIODE    | DAN235U      | SW          |
| D 2057   | DIODE    | HVU355       | VCO         |

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|----------|----------------|---------------|---------------|
| D 2058   | DIODE          | 1SS318        | SW            |
| D 2059   | DIODE          | HVU355        | VCO           |
| D 2060   | DIODE          | DAN235U       | SW            |
| D 2061   | DIODE          | HVU355        | VCO           |
| D 2062   | DIODE          | 1SS355        | CONTROL       |
| D 2063   | DIODE          | 1SS318        | SW            |
| D 2064   | DIODE          | DAN235U       | SW            |
| D 2065   | DIODE          | DAN202K       | CONTROL       |
| D 2066   | DIODE          | DAN202K       | CONTROL       |
| D 2067   | DIODE          | DAN235U       | SW            |
| D 2070   | DIODE          | DAN202K       | ATT           |
| D 2071   | DIODE          | DAN202K       | SW            |
| D 2072   | DIODE          | DAN235U       | SW            |
| D 2073   | DIODE          | DAN235U       | SW            |
| D 2074   | DIODE          | 21DQ04        | PROTECT       |
| D 2075   | SURGE ABSORBER | DSP201M-S00B  | PROTECT       |
| D 2076   | DIODE          | 1SS270        | PLL SUBSYSTEM |
| D 2077   | DIODE          | 1SS270        | PLL SUBSYSTEM |
| Q 2001   | IC             | M5223AFP      | BPF TUNE      |
| Q 2002   | IC             | M5223AFP      | PLL SUBSYSTEM |
| Q 2003   | IC             | M5223AFP      | PLL SUBSYSTEM |
| Q 2004   | TRANSISTOR     | DTC114EK      | PLL SUBSYSTEM |
| Q 2005   | TRANSISTOR     | DTC114EK      | CONTROL       |
| Q 2006   | TRANSISTOR     | 2SC4116GR     | BUFF          |
| Q 2007   | TRANSISTOR     | 2SC4116GR     | BUFF          |
| Q 2008   | TRANSISTOR     | IMD3          | CONTROL       |
| Q 2009   | TRANSISTOR     | DTC114EK      | CONTROL       |
| Q 2010   | TRANSISTOR     | DTC114EK      | PLL SUBSYSTEM |
| Q 2011   | IC             | NJM78L09UA    | REG           |
| Q 2012   | IC             | NJM78L05UA    | REG           |
| Q 2013   | IC             | UPC2711T      | BUFF          |
| Q 2014   | TRANSISTOR     | DTC114EK      | CONTROL       |
| Q 2015   | TRANSISTOR     | DTC114EK      | CONTROL       |
| Q 2016   | FET            | 2SK210GR      | BUFF          |
| Q 2017   | IC             | L78M05T       | REG           |
| Q 2018   | IC             | MB15A02PFV1-G | PLL SUBSYSTEM |
| Q 2019   | FET            | 3SK228XR      | SW            |
| Q 2020   | FET            | 3SK228XR      | SW            |
| Q 2021   | FET            | 3SK228XR      | SW            |
| Q 2022   | TRANSISTOR     | 2SC4116GR     | REF. OSC      |
| Q 2023   | TRANSISTOR     | 2SC4116GR     | LOCAL OSC     |
| Q 2024   | IC             | NJM78L09UA    | REG           |
| Q 2025   | IC             | UPC2711T      | RF AMP        |
| Q 2027   | TRANSISTOR     | 2SC4116GR     | LOCAL OSC     |
| Q 2028   | TRANSISTOR     | 2SC4116GR     | TEMP. CONTROL |
| Q 2029   | TRANSISTOR     | 2SA1586Y      | TEMP. CONTROL |
| Q 2030   | TRANSISTOR     | 2SC3356       | VCO           |
| Q 2031   | FET            | 3SK228XR      | SW            |
| Q 2032   | FET            | 3SK228XR      | SW            |
| Q 2033   | FET            | 3SK228XR      | 1st MIX       |
| Q 2034   | TRANSISTOR     | 2SC3585       | 1st MIX       |
| Q 2035   | TRANSISTOR     | 2SC3356       | VCO           |
| Q 2036   | IC             | UPC2711T      | BUFF          |
| Q 2037   | TRANSISTOR     | 2SA1586Y      | PLL SUBSYSTEM |

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|-----------|------------|--------------|---------------|
| Q 2038    | IC         | NJU7201U30   | PLL SUBSYSTEM |
| Q 2039    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2040    | TRANSISTOR | 2SC3356      | VCO           |
| Q 2041    | TRANSISTOR | 2SC3356      | PLL SUBSYSTEM |
| Q 2042    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2043    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2044    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2045    | FET        | 3SK228XR     | AGC           |
| Q 2047    | TRANSISTOR | 2SC3356      | VCO           |
| Q 2048    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2049    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2050    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2051    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2052    | TRANSISTOR | 2SC3356      | VCO           |
| Q 2053    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2054    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2055    | IC         | MB15E05PFV1  | PLL SUBSYSTEM |
| Q 2056    | TRANSISTOR | 2SC3585      | 1st MIX       |
| Q 2058    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2059    | IC         | BU4094BCFV   | CONTROL       |
| Q 2060    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2061    | TRANSISTOR | 2SC3120      | BUFF          |
| Q 2062    | IC         | NJM78L09UA   | REG           |
| Q 2063    | IC         | UPC2711T     | BUFF          |
| Q 2064    | FET        | 3SK228XR     | 1st MIX       |
| Q 2065    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2066    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2067    | TRANSISTOR | 2SC3356      | VCO           |
| Q 2068    | IC         | UPC2710T     | BUFF          |
| Q 2069    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2070    | TRANSISTOR | 2SC3356      | VCO           |
| Q 2071    | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 2072    | IC         | BU4094BCFV   | CONTROL       |
| Q 2073    | TRANSISTOR | FMS1         | CONTROL       |
| Q 2074    | TRANSISTOR | FMS1         | CONTROL       |
| Q 2075    | IC         | UPC2711T     | BUFF          |
| Q 2076    | TRANSISTOR | FMC3         | CONTROL       |
| Q 2077    | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 2078    | TRANSISTOR | DTC114EK     | PLL SUBSYSTEM |
| Q 2079    | TRANSISTOR | FMS1         | ATT           |
| Q 2080    | TRANSISTOR | 2SC3420GR    | PROTECT       |
| [IF-UNIT] |            |              |               |
| D 3002    | DIODE      | HVU359       | LOCAL OSC     |
| D 3003    | DIODE      | HVU359       | LOCAL OSC     |
| D 3004    | VARISTOR   | MA28T-A      | LOCAL OSC     |
| D 3005    | DIODE      | HVU355       | BUFF          |
| D 3007    | DIODE      | DA204K       | LIMITTER      |
| D 3008    | DIODE      | 1SS355       | LOCAL OSC     |
| D 3009    | DIODE      | HVU355       | VCO           |
| D 3010    | DIODE      | 1SS355       | NOISE BLANKER |
| D 3011    | DIODE      | HVU355       | BUFF          |
| D 3012    | DIODE      | DAN202K      | SW            |
| D 3013    | DIODE      | 1SS355       | NOISE BLANKER |
| D 3014    | DIODE      | DA204K       | NOISE BLANKER |

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| Location | Type       | Nomenclature | Application   |
|----------|------------|--------------|---------------|
| D 3015   | DIODE      | DAN202K      | CONTROL       |
| D 3016   | DIODE      | DA204K       | BUFF          |
| D 3017   | DIODE      | DAN202K      | CONTROL       |
| D 3018   | DIODE      | 1SS355       | SW            |
| D 3019   | DIODE      | 1SS355       | SW            |
| D 3020   | DIODE      | 1SS355       | SW            |
| D 3021   | DIODE      | DAN202K      | SW            |
| D 3022   | DIODE      | 1SS355       | SW            |
| D 3023   | DIODE      | 1SS355       | SW            |
| D 3024   | DIODE      | 1SS355       | SW            |
| D 3025   | DIODE      | 1SS355       | SW            |
| D 3026   | DIODE      | 1SS355       | SW            |
| D 3027   | DIODE      | 1SS355       | SW            |
| D 3028   | DIODE      | DA204K       | SCAN FILTER   |
| D 3029   | DIODE      | DA204K       | BUFF          |
| D 3030   | DIODE      | DAN202K      | CONTROL       |
| D 3031   | DIODE      | 1SS355       | SW            |
| D 3032   | DIODE      | 1SS355       | SW            |
| D 3033   | DIODE      | 1SS355       | SW            |
| D 3034   | DIODE      | 1SS355       | CONTROL       |
| D 3035   | DIODE      | 1SS355       | CONTROL       |
| D 3036   | DIODE      | 1SS355       | CONTROL       |
| D 3037   | DIODE      | 1SS355       | CONTROL       |
| D 3038   | DIODE      | 1SS355       | CONTROL       |
| Q 3001   | IC         | M5223AFP     | PLL SUBSYSTEM |
| Q 3002   | IC         | M5223AFP     | BUFF          |
| Q 3003   | IC         | TC4W66F      | SW            |
| Q 3004   | IC         | NJM2902M     | BUFF          |
| Q 3005   | IC         | BU4066BF     | SW            |
| Q 3006   | IC         | M5223AFP     | CW/SSB AMP    |
| Q 3007   | TRANSISTOR | 2SC3120      | BUFF          |
| Q 3008   | TRANSISTOR | 2SC1623      | POWER SW      |
| Q 3009   | FET        | 3SK228XR     | BUFF          |
| Q 3010   | TRANSISTOR | 2SB1134R     | POWER SW      |
| Q 3011   | TRANSISTOR | DTC114EK     | PLL SUBSYSTEM |
| Q 3012   | TRANSISTOR | 2SC4116GR    | BUFF          |
| Q 3013   | IC         | LA4425A      | AF PA         |
| Q 3014   | TRANSISTOR | FMW1 T98     | NOISE BLANKER |
| Q 3015   | IC         | KIA7808API   | REG           |
| Q 3016   | TRANSISTOR | 2SC3120      | BUFF          |
| Q 3017   | FET        | 3SK228XR     | 3rd MIX       |
| Q 3018   | IC         | MB15A02PFV1  | PLL SUBSYSTEM |
| Q 3019   | TRANSISTOR | 2SC4116GR    | LOCAL OSC     |
| Q 3020   | TRANSISTOR | FMC3         | CONTROL       |
| Q 3021   | TRANSISTOR | FMC3         | CONTROL       |
| Q 3022   | TRANSISTOR | FMC3         | CONTROL       |
| Q 3023   | TRANSISTOR | FMC3         | CONTROL       |
| Q 3024   | TRANSISTOR | FMW1         | NOISE BLANKER |
| Q 3025   | TRANSISTOR | 2SC2620QB    | BUFF          |
| Q 3026   | TRANSISTOR | 2SC2620QB    | SSB CARRIER   |
| Q 3027   | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 3028   | IC         | BU4094BCFV   | CONTROL       |
| Q 3030   | TRANSISTOR | 2SC4116GR    | LOCAL OSC     |
| Q 3031   | TRANSISTOR | DTC114EK     | CONTROL       |

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| Location    | Type       | Nomenclature | Application   |
|-------------|------------|--------------|---------------|
| Q 3032      | FET        | 3SK228XR     | 2nd MIX       |
| Q 3033      | TRANSISTOR | 2SC2620QB    | CW/SSB AMP    |
| Q 3034      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3035      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3036      | TRANSISTOR | DTC114EK     | NOISE BLANKER |
| Q 3037      | FET        | 3SK228XR     | BUFF          |
| Q 3038      | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 3039      | IC         | SN16913P     | CW/SSB AMP    |
| Q 3040      | TRANSISTOR | 2SC1623      | IF SUBSYSTEM  |
| Q 3041      | TRANSISTOR | 2SC2620QB    | BUFF          |
| Q 3042      | TRANSISTOR | 2SC1623      | NOISE BLANKER |
| Q 3043      | FET        | 3SK228XR     | 2nd MIX       |
| Q 3044      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3045      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3046      | TRANSISTOR | 2SC2620QB    | SSB CARRIER   |
| Q 3047      | TRANSISTOR | DTB123YK     | CONTROL       |
| Q 3048      | TRANSISTOR | 2SC1623      | NOISE BLANKER |
| Q 3049      | TRANSISTOR | 2SC3356      | VCO           |
| Q 3050      | TRANSISTOR | DTB123YK     | CONTROL       |
| Q 3051      | TRANSISTOR | 2SC2620QB    | BUFF          |
| Q 3052      | TRANSISTOR | 2SC3356      | VCO           |
| Q 3053      | TRANSISTOR | IMH5         | CONTROL       |
| Q 3054      | TRANSISTOR | 2SC1623      | SCAN FILTER   |
| Q 3055      | FET        | 3SK228XR     | 3rd MIX       |
| Q 3056      | IC         | LA1145M      | IF SUBSYSTEM  |
| Q 3057      | TRANSISTOR | 2SA1586Y     | PLL SUBSYSTEM |
| Q 3058      | IC         | NJM567M      | SCAN FILTER   |
| Q 3059      | TRANSISTOR | 2SC3356      | PLL SUBSYSTEM |
| Q 3060      | TRANSISTOR | 2SC3356      | VCO           |
| Q 3061      | IC         | TK10931V     | IF SUBSYSTEM  |
| Q 3062      | TRANSISTOR | 2SC2620QB    | BUFF          |
| Q 3063      | TRANSISTOR | 2SC1623      | SCAN FILTER   |
| Q 3064      | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 3065      | TRANSISTOR | DTC114EK     | CONTROL       |
| Q 3066      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3067      | TRANSISTOR | 2SC1623      | SCAN FILTER   |
| Q 3068      | TRANSISTOR | 2SC4116GR    | IF SUBSYSTEM  |
| Q 3069      | IC         | TK10931VT1   | IF SUBSYSTEM  |
| Q 3070      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3071      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3072      | TRANSISTOR | FMC3         | CONTROL       |
| Q 3073      | TRANSISTOR | DTC114EK     | PLL SUBSYSTEM |
| Q 3075      | TRANSISTOR | 2SC2620QB    | BUFF          |
| Q 3076      | IC         | KIA7808API   | REG           |
| Q 3077      | IC         | NJM78L05UA   | REG           |
| Q 3078      | IC         | NJM78L09UA   | REG           |
| Q 3080      | TRANSISTOR | DTC114EK     | CONTROL       |
| [CNTL-UNIT] |            |              |               |
| D 5001      | DIODE      | HZM7C        | REG           |
| D 5002      | DIODE      | 1SS355       | REG           |
| D 5003      | DIODE      | DAN202K      | REG           |
| D 5004      | DIODE      | DAN202K      | REG           |
| D 5005      | DIODE      | DAN202K      | REG           |
| D 5006      | DIODE      | DA204K       | LIMITTER      |

### VR-5000 Component Application

| Location | Type       | Nomenclature   | Application |
|----------|------------|----------------|-------------|
| D 5007   | LED        | NSPW310BS      | BACK LIGHT  |
| D 5008   | LED        | NSPW310BS      | BACK LIGHT  |
| D 5009   | LED        | NSPW310BS      | BACK LIGHT  |
| D 5010   | LED        | NSPW310BS      | BACK LIGHT  |
| Q 5001   | TRANSISTOR | 2SA1179M6      | REG         |
| Q 5002   | IC         | NJM78L05UA     | REG         |
| Q 5003   | IC         | RH5VL45AA      | RESET       |
| Q 5004   | IC         | NJM78L05UA     | REG         |
| Q 5005   | TRANSISTOR | DTC124EK       | CONTROL     |
| Q 5007   | IC         | ADM232LJR      | CAT DRIVER  |
| Q 5008   | IC         | HD6473048SF16  | MAIN CPU    |
| Q 5009   | IC         | HD6473337YF16  | SUB CPU     |
| Q 5010   | TRANSISTOR | DTC124EK       | CONTROL     |
| Q 5011   | TRANSISTOR | 2SC1623        | DIMMER      |
| Q 5012   | TRANSISTOR | 2SA1182Y       | DIMMER      |
| Q 5013   | IC         | BU4094BCFV     | CONTROL     |
| Q 5014   | TRANSISTOR | 2SC1623        | BUFF        |
| Q 5015   | TRANSISTOR | 2SC1623        | BUFF        |
| Q 5016   | LCD MODULE | NCM1703A       | DISPLAY     |
| Q 5017   | IC         | LE28C1001AT-12 | EEPROM      |
| Q 5018   | IC         | NJM2904M       | BUFF        |
| Q 5019   | IC         | BU4066BF       | SW          |
| Q 5020   | IC         | BU4066BF       | SW          |
| Q 5021   | IC         | NJM2904M       | BUFF        |
| Q 5022   | IC         | NJM2904M       | BUFF        |
| Q 5023   | IC         | NJM2903M       | BUFF        |
| Q 5024   | IC         | BU4081BF       | CONTROL     |
| Q 5025   | IC         | BU4081BF       | CONTROL     |