

CD CHANGER

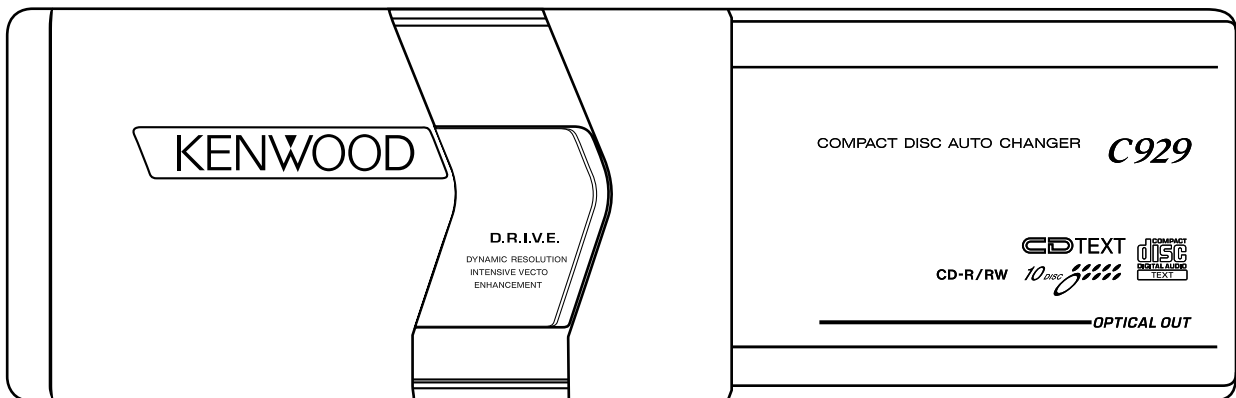
# C929

## SERVICE MANUAL

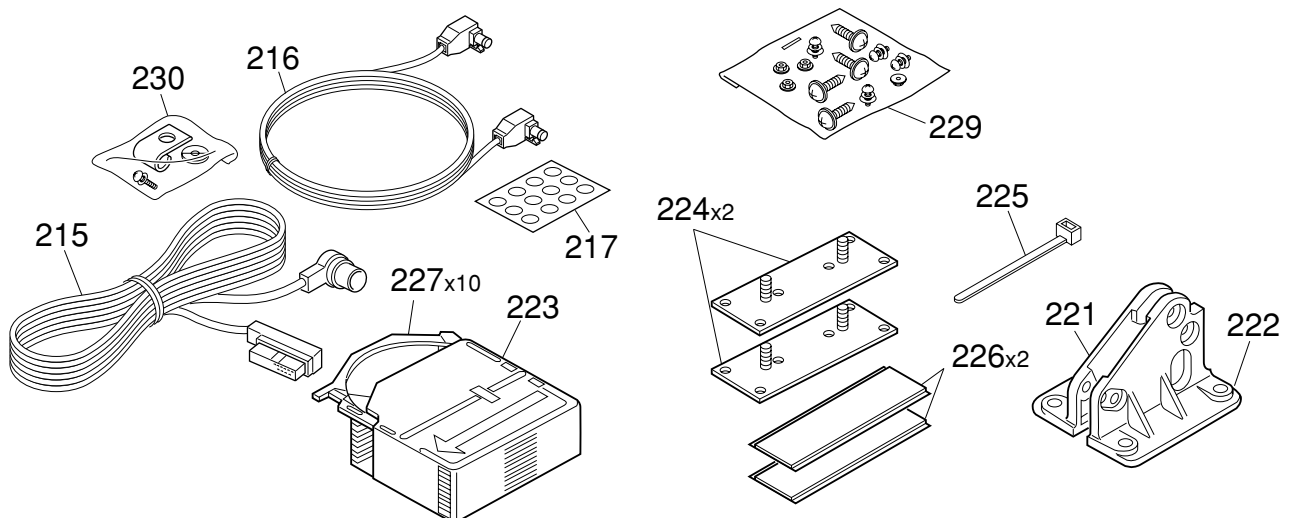
# KENWOOD

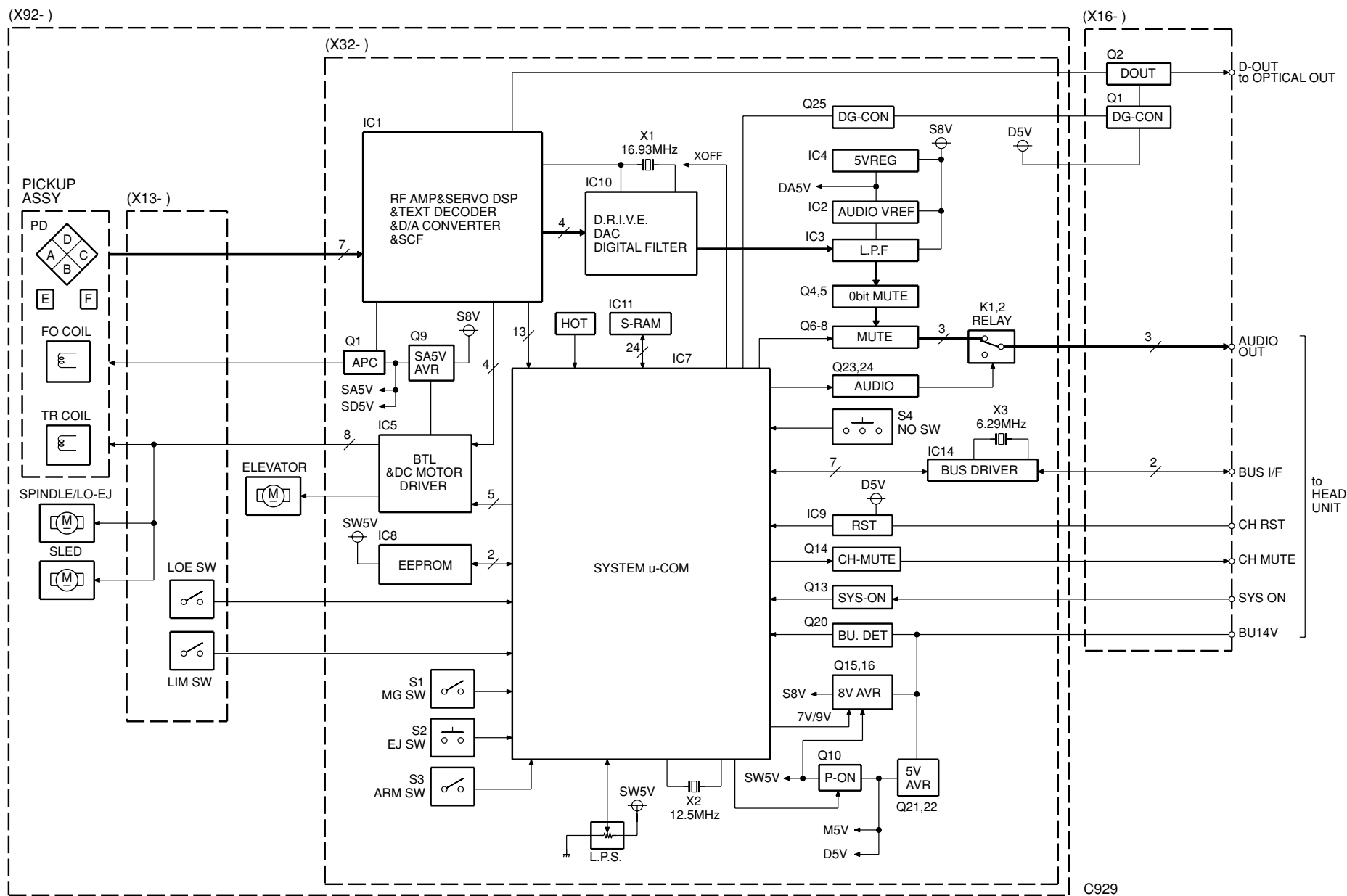
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B51-7796-00 (K) 3095

Refer to the service manual "KDC-C710" (B51-7104-00) for MECHANISM OPERATION DESCRIPTION.



The following reference numbers with accessory parts are the same reference numbers used on EXPLODED VIEW and PARTS LIST.





## COMPONENT DESCRIPTION

### CD PLAYER UNIT (X32-4970-00)

| REF. No. | FUNCTION                                            | OPERATION                                                                                                                                                                                                                                       |
|----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IC1      | RF ERROR AMPLIFIER / SERVO DIGITAL SIGNAL PROCESSOR | RE amplifier, Focus/Tracking error amplifier, APC circuit, Reference amplifier, Defect RFOK mirror circuit, EFM comparator, Vibration detector, Digital servo data processor, Digital loop filter, 8 times over sampling filter, D/A converter. |
| IC2      | VOLTAGE FOLLOWER                                    | Audio reference voltage supply.                                                                                                                                                                                                                 |
| IC3      | ACTIVE FILTER                                       | 2nd low pass filter.                                                                                                                                                                                                                            |
| IC4      | AVR                                                 | Audio 5V power supply.                                                                                                                                                                                                                          |
| IC5      | MOTOR DRIVER                                        | Focus tracking actuator, Sled/Spindle MD deck up/down motor driver.                                                                                                                                                                             |
| IC7      | SYSTEM $\mu$ -COM                                   | Servo control / Mechanism control / Multiple purposes interface.                                                                                                                                                                                |
| IC8      | MEMORY                                              | Mechanism up/down position offset servo initial data memory.                                                                                                                                                                                    |
| IC9      | $\mu$ -COM RESET.                                   | Resets u-com.                                                                                                                                                                                                                                   |
| IC10     | DRIVER                                              | DAC.                                                                                                                                                                                                                                            |
| IC11     | TEXT DATA MEMORY                                    | Memorises data from text decoder through u-com.                                                                                                                                                                                                 |
| IC14     | IE-BUS DRIVER                                       | Bus driver.                                                                                                                                                                                                                                     |
| Q1       | LASER CONTROLLER                                    | "ON" when IC13's APC goes on.                                                                                                                                                                                                                   |
| Q4       | Q1 DRIVER                                           | 0 bit mute goes on when "H" level signal is putout from LZ port of IC6.                                                                                                                                                                         |
| Q5       | Q2 DRIVER                                           | 0 bit mute goes on when "H" level signal is putout from RZ port of IC6.                                                                                                                                                                         |
| Q6,7     | AUDIO MUTE                                          | Mute goes on when "L" level signal output from A. MUTE port of IC7.                                                                                                                                                                             |
| Q8       | Q1&2 DRIVER                                         | Mute goes on when "L" level signal is output from A. MUTE Port of IC7.                                                                                                                                                                          |
| Q9       | CD SYSTEM 5V POWER SUPPLY                           | Transistor with regulator inside the IC12.                                                                                                                                                                                                      |
| Q10      | P.ON SW                                             | SW5V turns on when "L" level signal is output from P.ON port of IC7.                                                                                                                                                                            |
| Q11      | RESET SW                                            | Resets u-com by "H" level reset control signal from the head unit.                                                                                                                                                                              |
| Q12      | CLOCK ON/OFF                                        | Clock goes off when "H" level signal is output from XOFF port of IC7.                                                                                                                                                                           |
| Q13      | SYSTEM-ON SW                                        | Works during the ACC and power on.                                                                                                                                                                                                              |
| Q14      | CH-MUTE SW                                          | Audio mute output level goes on when "H" level signal is output from AUDIO port of IC7.                                                                                                                                                         |
| Q15      | SW +8 AVR                                           |                                                                                                                                                                                                                                                 |
| Q16      | Q15 DRIVER                                          | Drives Q15.                                                                                                                                                                                                                                     |
| Q17      | AVR 8V SW                                           | Switches AVR 8V power supply.                                                                                                                                                                                                                   |
| Q18      | Q11 DRIVER                                          | Drives Q11.                                                                                                                                                                                                                                     |
| Q19      | AVR 7V/8V SW                                        | "H" (7V) : Usual play mode. "L" (8V) : Elevator up/down.                                                                                                                                                                                        |
| Q20      | B.U. VOLTAGE DOWN DETECTION SW                      |                                                                                                                                                                                                                                                 |
| Q21      | B.U. +5V AVR                                        |                                                                                                                                                                                                                                                 |
| Q22      | Q21 DRIVER                                          | Drives Q21.                                                                                                                                                                                                                                     |
| Q23      | Q24 DRIVER                                          | Audio turns on when "H" level signal is output from AUDIO port of IC7.                                                                                                                                                                          |
| Q24      | RELAY SW                                            |                                                                                                                                                                                                                                                 |
| Q25      | Q1 (on X16-) DRIVER                                 | Digital-out turns on when "H" level signal is output from DGCON port of IC7.                                                                                                                                                                    |
| Q31      | MOTOR DRIVER REFERENCE VOLTAGE SW                   |                                                                                                                                                                                                                                                 |
| Q32      | SUB BEAM F SIGNAL TIME CONSTANT SW                  | "H" when time constant takes effect.                                                                                                                                                                                                            |

### SUB-CIRCUIT UNIT (X16-1030-00)

| REF. No. | FUNCTION                   | OPERATION |
|----------|----------------------------|-----------|
| Q1       | D-OUT (TRANSISTOR VCC SW)  |           |
| Q2       | D-OUT (TRANSMITTER DRIVER) |           |

## MICROCOMPUTER'S TERMINAL DESCRIPTION

(X32-) IC7 :  $\mu$ -COM

| PORT No. | PORT NAME                  | I/O | FUNCTION                                 | OPERATING CONDITION                                                           |
|----------|----------------------------|-----|------------------------------------------|-------------------------------------------------------------------------------|
| 1        | -                          | -   | -                                        |                                                                               |
| 2        | $\overline{\text{TSTB}}$   | O   | Text data strove.                        |                                                                               |
| 3        | T-BANK                     | I   | Tracking filter bank SW signal.          | "H" : Bank 1 (Gain-up mode).                                                  |
| 4        | $\overline{\text{F-OK}}$   | I   | Focus-on signal.                         | "H" : Focus on.                                                               |
| 5        | $\overline{\text{XTALEN}}$ | O   | DAC servo IC oscillation stop control.   | "H" : Oscillation stop.                                                       |
| 6        | $\overline{\text{RESET}}$  | O   | Servo IC reset.                          | "L" : Reset.                                                                  |
| 7        | SAO                        | O   | Servo IC communication address setting.  |                                                                               |
| 8        | SSTB                       | O   | Servo IC communication strove.           |                                                                               |
| 9        | VDD                        | -   | VDD                                      |                                                                               |
| 10       | X2                         | -   | Main clock 2.                            |                                                                               |
| 11       | X1                         | I   | Main clock 1.                            |                                                                               |
| 12       | VSS                        | -   | GND.                                     |                                                                               |
| 13       | -                          | -   | -                                        |                                                                               |
| 14       | XT1                        | -   | Sub clock 1.                             |                                                                               |
| 15       | RESET                      | I   | Reset.                                   |                                                                               |
| 16       | FO-GUP                     | I   | Focus gain-up SW.                        | "H" : Focus gain up.                                                          |
| 17       | MG-SW                      | I   | Magazine SW.                             | "H": Magazine inserted.                                                       |
| 18       | EJ-SW                      | I   | Eject SW.                                | "H" : Switch on.                                                              |
| 19       | B-REQ-H                    | I   | Communication request signal.            |                                                                               |
| 20       | PACK                       | I   | Text data - Pack synchronization signal. |                                                                               |
| 21       | SYS-ON                     | I   | Changer control from head unit.          | "L" : System on.                                                              |
| 22       | BU-DET                     | I   | Back-up momentary power-down detection.  | "H" : Momentary power down.                                                   |
| 23       | AVDD                       | -   | VDD.                                     |                                                                               |
| 24       | A VREF 0                   | I   | Inner A/D converter reference voltage.   |                                                                               |
| 25       | HOT                        | I   | Temperature-up detection.                | Detects over 4V, releases the detection when the voltage goes to be under 4V. |
| 26       | LPS                        | I   | Mechanism deck height detection.         |                                                                               |
| 27       | LO-E-SW                    | I   | Loading end SW.                          | "L" : Loading ends.                                                           |
| 28       | LIM-SW                     | I   | Limit switch.                            | "L" : Laser pick-up being most inside detection.                              |
| 29       | T-OFF                      | I   | Tracking-off mode.                       | "H" : Tracking off.                                                           |
| 30       | ADJ-SEL                    | I   | Servo automatic adjustment on/off.       | "H" : Automatic adjustment off.                                               |
| 31       | TEST1                      | I   | For mechanism endurance test.            |                                                                               |
| 32       | TEST2                      | I   | For mechanism endurance test.            |                                                                               |
| 33       | AVSS                       | -   | GND.                                     |                                                                               |
| 34       | AUDIO                      | O   | Audio relay control out.                 | "H" : Changer source.                                                         |
| 35       | A-MUTE                     | O   | Audio mute.                              | "L" : Mute on.                                                                |
| 36       | A VREF 1                   | -   | Inner A/D converter reference voltage.   |                                                                               |
| 37       | S-DI                       | I   | Servo IC communication serial data.      |                                                                               |
| 38       | S-DO                       | O   | Servo IC communication serial data.      |                                                                               |
| 39       | S-CK                       | O   | Servo IC communication serial clock.     |                                                                               |
| 40       | B-DIC                      | I   | Bus serial.                              |                                                                               |
| 41       | B-DCOM                     | O   | Bus serial.                              |                                                                               |
| 42       | B-CLK                      | O   | Bus serial clock.                        |                                                                               |
| 43       | B-C/D                      | O   | Bus command data SW.                     |                                                                               |
| 44       | CH-MUTE                    | O   | Audio mute to head unit.                 | "L" : Mute on.                                                                |
| 45       | TSI                        | I   | Text data.                               |                                                                               |
| 46       | TSO                        | O   | Text data.                               |                                                                               |
| 47       | $\overline{\text{TSCK}}$   | O   | Text clock.                              |                                                                               |
| 48       | A0                         | O   | Address setting to S-RAM.                |                                                                               |
| 49       | A1                         | O   | Address setting to S-RAM.                |                                                                               |
| 50       | A2                         | O   | Address setting to S-RAM.                |                                                                               |
| 51       | A3                         | O   | Address setting to S-RAM.                |                                                                               |
| 52       | A4                         | O   | Address setting to S-RAM.                |                                                                               |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## (X32-) IC7 : $\mu$ -COM

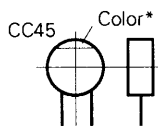
| PORT No. | PORT NAME | I/O | FUNCTION                                    | OPERATING CONDITION                             |
|----------|-----------|-----|---------------------------------------------|-------------------------------------------------|
| 53       | A5        | O   | Address setting to S-RAM.                   |                                                 |
| 54       | A6        | O   | Address setting to S-RAM.                   |                                                 |
| 55       | A7        | O   | Address setting to S-RAM.                   |                                                 |
| 56       | D0        | I/O | Data from and to S-RAM.                     |                                                 |
| 57       | D1        | I/O | Data from and to S-RAM.                     |                                                 |
| 58       | D2        | I/O | Data from and to S-RAM.                     |                                                 |
| 59       | D3        | I/O | Data from and to S-RAM.                     |                                                 |
| 60       | D4        | I/O | Data from and to S-RAM.                     |                                                 |
| 61       | D5        | I/O | Data from and to S-RAM.                     |                                                 |
| 62       | D6        | I/O | Data from and to S-RAM.                     |                                                 |
| 63       | D7        | I/O | Data from and to S-RAM.                     |                                                 |
| 64       | A8        | O   | Address setting to S-RAM.                   |                                                 |
| 65       | A9        | O   | Address setting to S-RAM.                   |                                                 |
| 66       | A10       | O   | Address setting to S-RAM.                   |                                                 |
| 67       | A11       | O   | Address setting to S-RAM.                   |                                                 |
| 68       | A12       | O   | Address setting to S-RAM.                   |                                                 |
| 69       | A13       | O   | Address setting to S-RAM.                   |                                                 |
| 70       | A14       | O   | Address setting to S-RAM.                   |                                                 |
| 71       | A15       | O   | Address setting to S-RAM.                   |                                                 |
| 72       | VSS       | -   | GND.                                        |                                                 |
| 73       | A16       | O   | Enable control to S-RAM.                    |                                                 |
| 74       | A17       | O   | Enable control to S-RAM.                    |                                                 |
| 75       | DG-CON    | O   | Digital-out control.                        | "H" : Digital out.                              |
| 76       | ELV-ADJ   | I   | Mechanism deck height adjustment mode.      | "L" : Adjustment mode.                          |
| 77       | RD        | O   | Reading control to S-RAM.                   |                                                 |
| 78       | WR        | O   | Reading control to S-RAM.                   |                                                 |
| 79       | WAIT      | I   | WAIT insertion from S-RAM during accessing. |                                                 |
| 80       | -         | -   | -                                           |                                                 |
| 81       | VDD       | -   | VDD.                                        |                                                 |
| 82       | PU-SEL    | I   | Laser pick-up type discrimination.          | "H" : Made by KENWOOD.<br>"L" : Made by others. |
| 83       | PU-OK     | I   | Laser pick-up type discrimination.          | "H" : The laser pick-up is OK.                  |
| 84       | SP/LO +   | O   | Spindle/Loading control.                    |                                                 |
| 85       | SP/LO -   | O   | Spindle/Loading control.                    |                                                 |
| 86       | ELV+      | O   | Mechanism up/down control.                  |                                                 |
| 87       | ELV-      | O   | Mechanism up/down control.                  |                                                 |
| 88       | SRV-SEL   | I   | Servo operating mode.                       | "H" : Servo mode.                               |
| 89       | SEARCH    | O   | Search play SW.                             | "L" : Searching.                                |
| 90       | SLNSA     | O   | Sled non-felt area on/off.                  | "L" : Sled non-felt area on.                    |
| 91       | EEP-WR    | O   | EEP-ROM writing mode.                       | "H" : EEP-ROM writing mode.                     |
| 92       | 7V/8V     | O   | Mechanism driving IC power supply control.  |                                                 |
| 93       | NO-SW     | I   | Bus number SW.                              | "H" : CH1. "L" : CH2.                           |
| 94       | TEST/VPP  | -   | Flash ROM program mode.                     |                                                 |
| 95       | B-CS      | O   | Bus chip selector.                          |                                                 |
| 96       | B-RST     | O   | Bus reset.                                  |                                                 |
| 97       | SDA       | I/O | EEP-ROM data.                               |                                                 |
| 98       | SCL       | O   | EEP-ROM clock.                              |                                                 |
| 99       | P-ON      | O   | P-ON.                                       | "L" : AVR power on.                             |
| 100      | ARM-SW    | I   | Arm SW.                                     | "H" : Arm SW on.                                |

## PARTS DESCRIPTIONS

## CAPACITORS

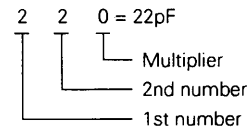
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.  
2 = Shape ... round, square, ect.  
3 = Temp. coefficient  
4 = Voltage rating  
5 = Value  
6 = Tolerance



## • Capacitor value

- 010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



## • Temperature coefficient

| 1st Word | C     | L   | P      | R      | S     | T    | U      |
|----------|-------|-----|--------|--------|-------|------|--------|
| Color*   | Black | Red | Orange | Yellow | Green | Blue | Violet |
| ppm/°C   | 0     | -80 | -150   | -220   | -330  | -470 | -750   |

| 2nd Word | G   | H   | J    | K    | L    |
|----------|-----|-----|------|------|------|
| ppm/°C   | ±30 | ±60 | ±120 | ±250 | ±500 |

Example : CC45TH = -470 ± 60ppm/°C

## • Tolerance (More than 10pF)

| Code | C     | D    | G  | J  | K   | M   | X          | Z          | P          | No code                                                 |
|------|-------|------|----|----|-----|-----|------------|------------|------------|---------------------------------------------------------|
| (%)  | ±0.25 | ±0.5 | ±2 | ±5 | ±10 | ±20 | +40<br>-20 | +80<br>-20 | +100<br>-0 | More than 10μF - 10 ~ +50<br>Less than 4.7μF - 10 ~ +75 |

## (Less than 10pF)

| Code | B    | C     | D    | F  | G  |
|------|------|-------|------|----|----|
| (pF) | ±0.1 | ±0.25 | ±0.5 | ±1 | ±2 |

## • Voltage rating

| 2nd word \ 1st word | A    | B    | C    | D    | E    | F    | G    | H    | J    | K    | V  |
|---------------------|------|------|------|------|------|------|------|------|------|------|----|
| 0                   | 1.0  | 1.25 | 1.6  | 2.0  | 2.5  | 3.15 | 4.0  | 5.0  | 6.3  | 8.0  | -  |
| 1                   | 10   | 12.5 | 16   | 20   | 25   | 31.5 | 40   | 50   | 63   | 80   | 35 |
| 2                   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | -  |
| 3                   | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 | -  |

## • Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J  
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z  
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Voltage rating  
6 = Value  
7 = Tolerance

## Dimension (Chip capacitors)

| Dimension code | L         | W          | T              |
|----------------|-----------|------------|----------------|
| Empty          | 5.6 ± 0.5 | 5.0 ± 0.5  | Less than 2.0  |
| A              | 4.5 ± 0.5 | 3.2 ± 0.4  | Less than 2.0  |
| B              | 4.5 ± 0.5 | 2.0 ± 0.3  | Less than 2.0  |
| C              | 4.5 ± 0.5 | 1.25 ± 0.2 | Less than 1.25 |
| D              | 3.2 ± 0.4 | 2.5 ± 0.3  | Less than 1.5  |
| E              | 3.2 ± 0.2 | 1.6 ± 0.2  | Less than 1.25 |
| F              | 2.0 ± 0.3 | 1.25 ± 0.2 | Less than 1.25 |
| G              | 1.6 ± 0.2 | 0.8 ± 0.2  | Less than 1.0  |

## RESISTORS

## • Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J  
1 2 3 4 5 6 7

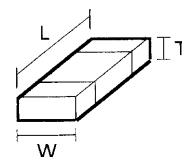
(Chip) (B, F)

## • Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J  
1 2 3 4 5 6 7

- 1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Rating wattage  
6 = Value  
7 = Tolerance

## Dimension



## Dimension (Chip resistor)

| Dimension code | L         | W          | T         |
|----------------|-----------|------------|-----------|
| E              | 3.2 ± 0.2 | 1.6 ± 0.2  | 1.0       |
| F              | 2.0 ± 0.3 | 1.25 ± 0.2 | 1.0       |
| G              | 1.6 ± 0.2 | 0.8 ± 0.2  | 0.5 ± 0.1 |

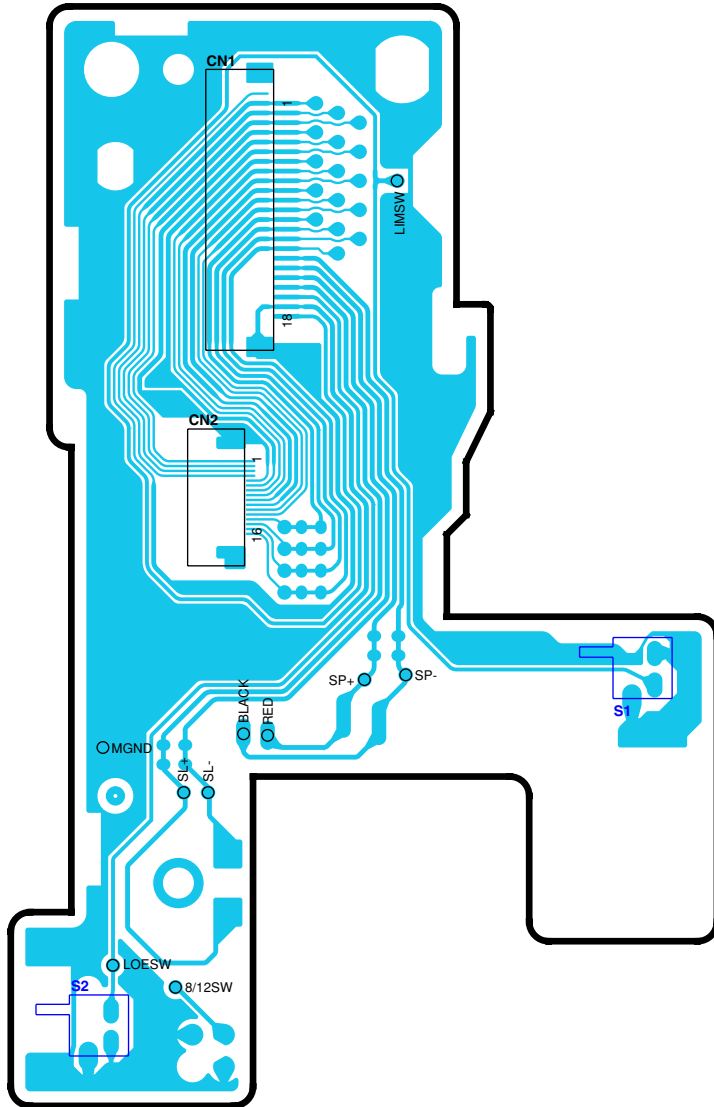
## Rating wattage

| Code | Wattage | Code | Wattage | Code | Wattage |
|------|---------|------|---------|------|---------|
| 1J   | 1/16W   | 2C   | 1/6W    | 3A   | 1W      |
| 2A   | 1/10W   | 2E   | 1/4W    | 3D   | 2W      |
| 2B   | 1/8W    | 2H   | 1/2W    |      |         |

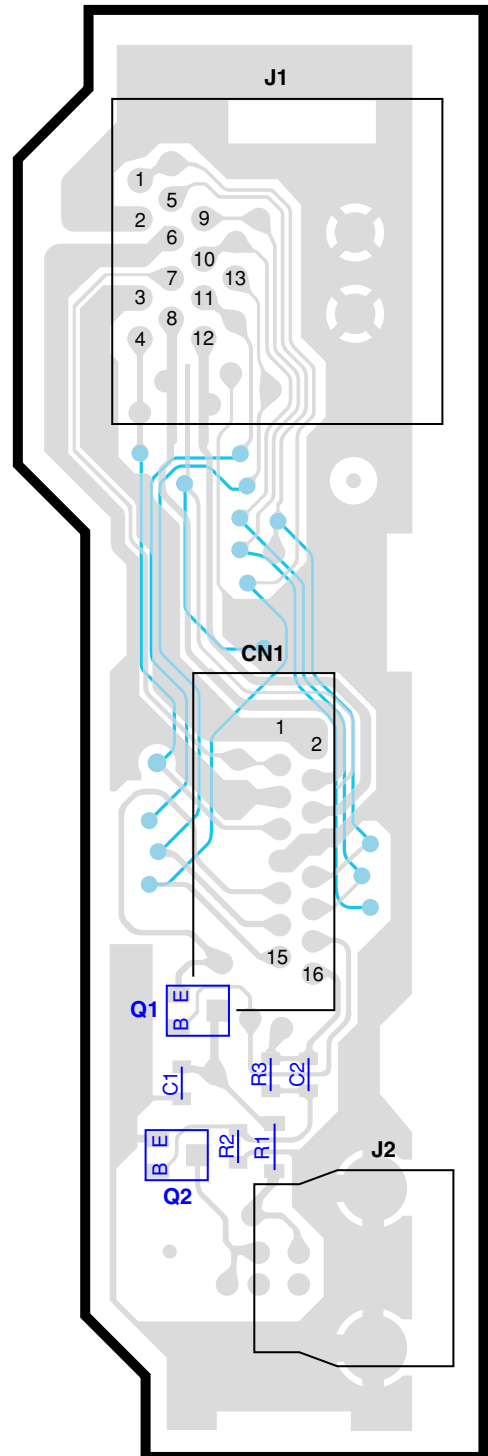
# PC BOARD (Component side view)

## SUB-CIRCUIT UNIT

X13-9850-00 (J74-0987-01)



## SUB-CIRCUIT UNIT X16-1030-00 (J74-0630-12)

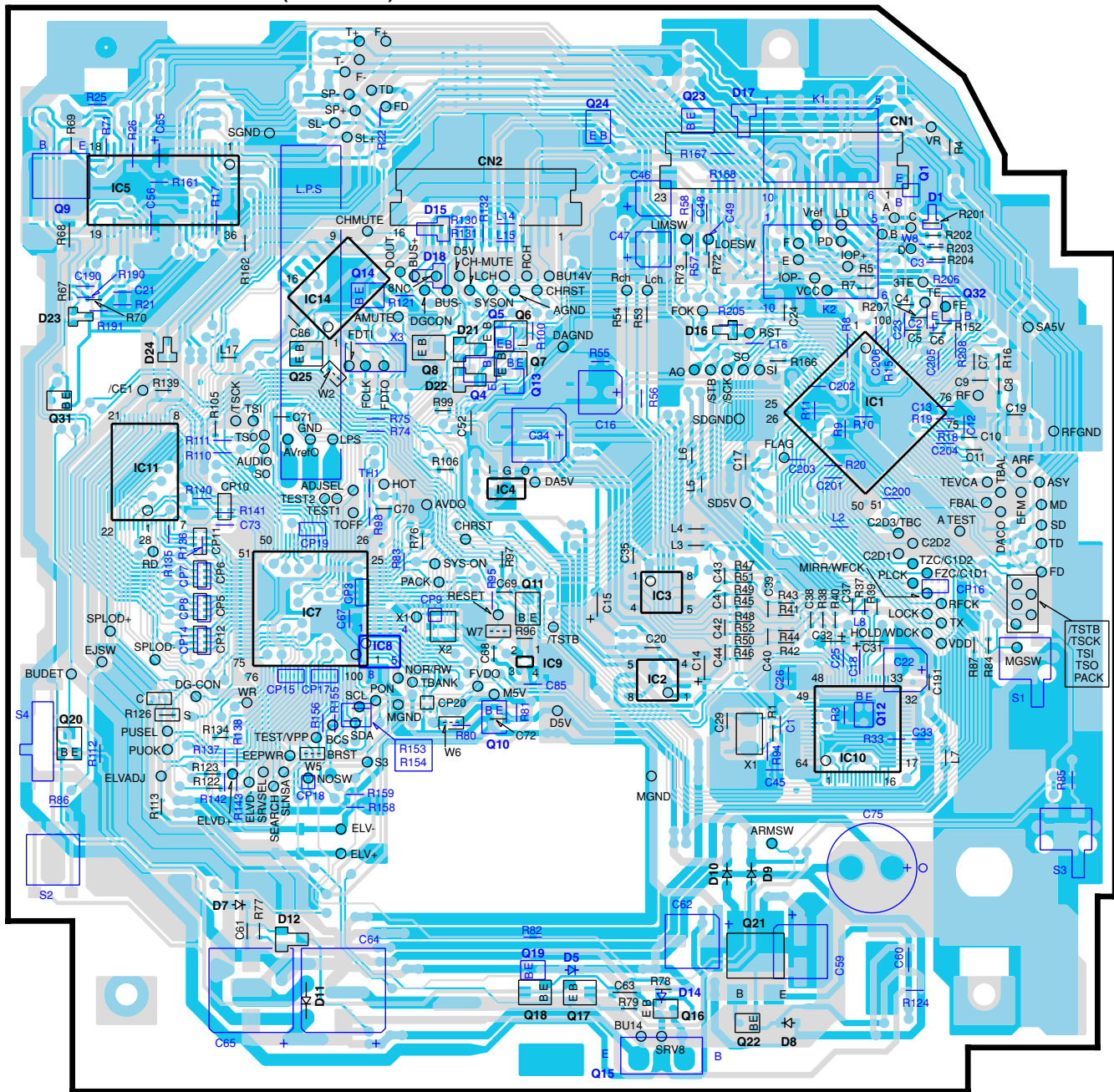


(X16-)

| Ref.No. | Address |
|---------|---------|
| Q1      | 5D      |
| Q2      | 5D      |

# PC BOARD (Component side view)

CD PLAYER UNIT X32-4970-00 (J74-1133-11)

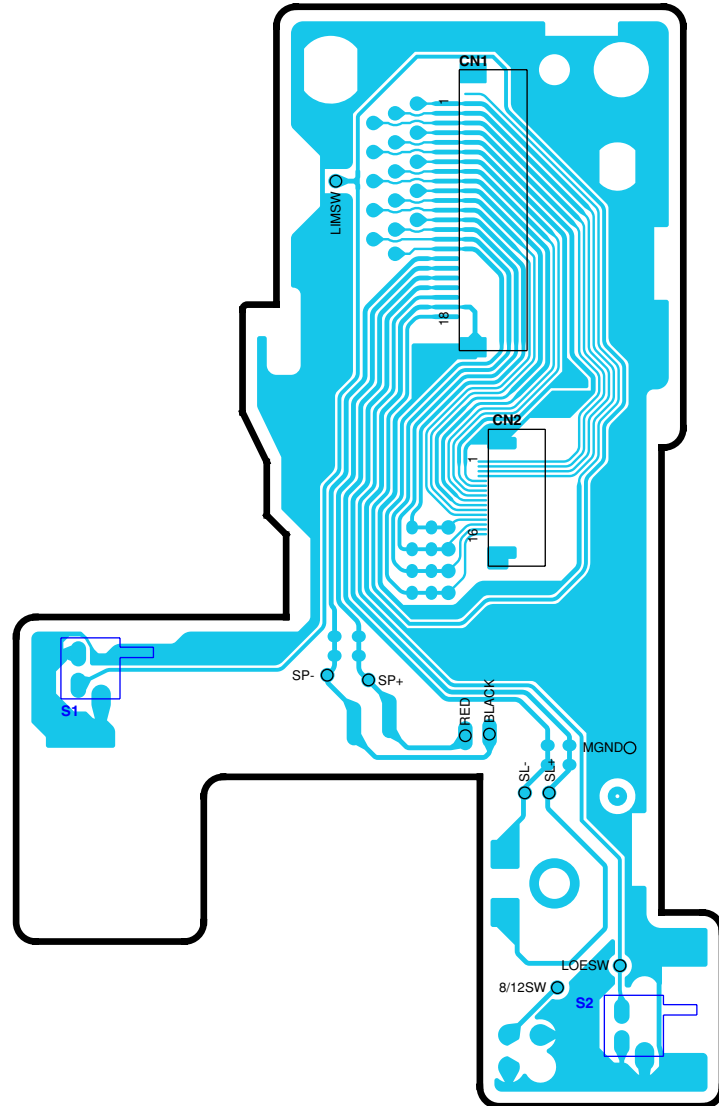


(X32-)

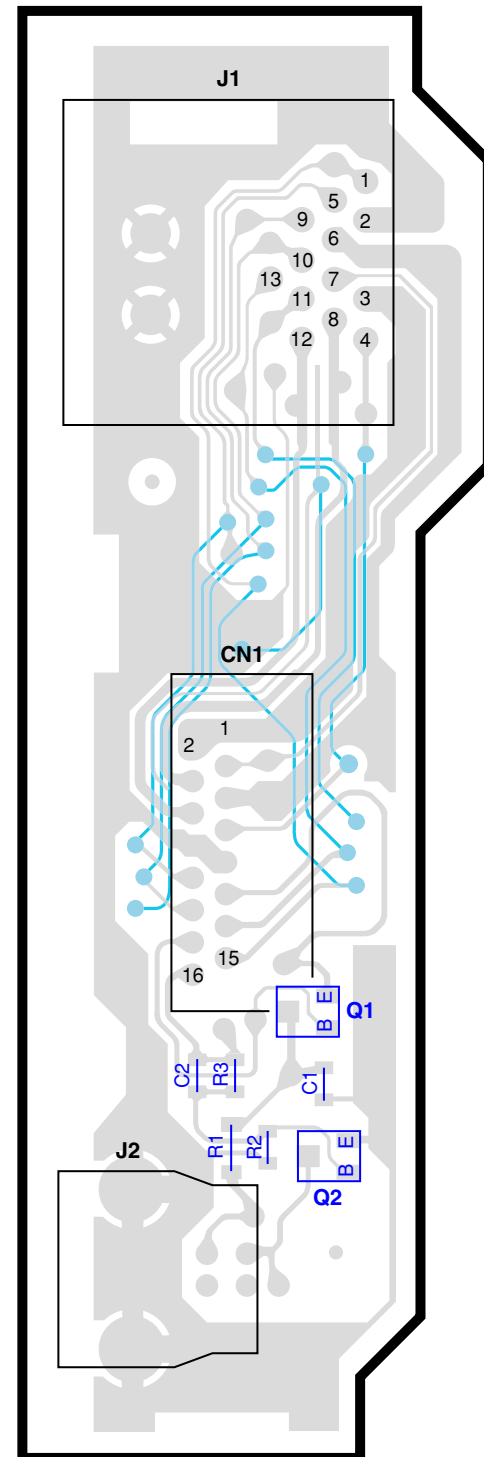
| Ref.No. | IC1 | IC2 | IC3 | IC4 | IC5 | IC7 | IC8 | IC9 | IC10 | IC11 | IC14 | Q1  | Q4  | Q5  | Q6  | Q7  | Q8  | Q9  |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| Address | 3I  | 4H  | 4H  | 3H  | 2F  | 4G  | 4G  | 4H  | 4I   | 3F   | 3G   | 2I  | 3H  | 3H  | 3H  | 3H  | 3G  | 2F  |
| Ref.No. | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18  | Q19  | Q20  | Q21 | Q22 | Q23 | Q24 | Q25 | Q31 | Q32 |
| Address | 4H  | 4H  | 4I  | 3H  | 3G  | 6H  | 5H  | 5H  | 5H   | 5H   | 4F   | 5I  | 5I  | 2H  | 2H  | 3G  | 3F  | 3I  |

PC BOARD (Foil side view)

SUB-CIRCUIT UNIT  
X13-9850-00 (J74-0987-01)



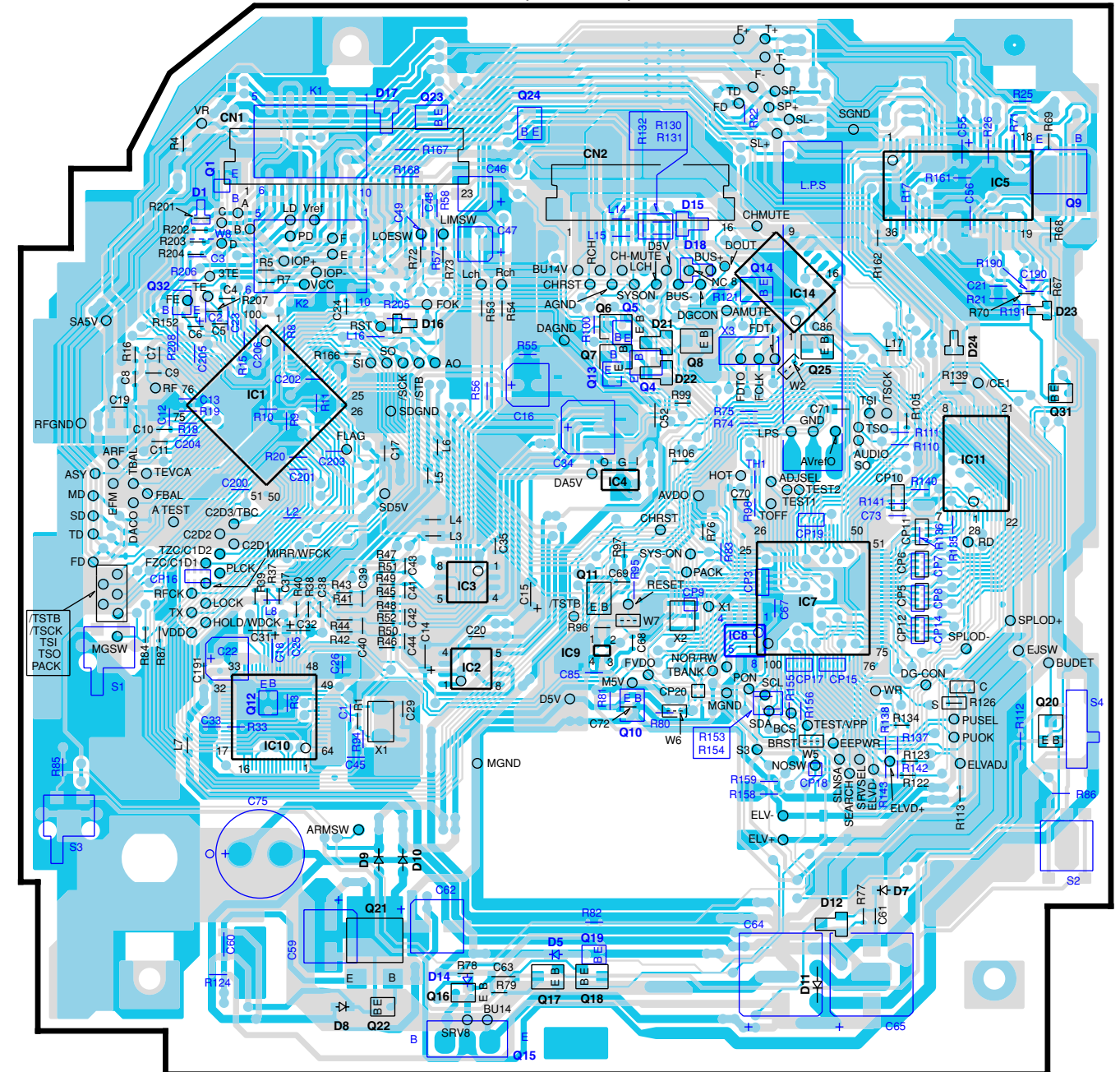
SUB-CIRCUIT UNIT  
X16-1030-00 (J74-0630-12)



(X16-)

| Ref.No. | Address |
|---------|---------|
| Q1      | 5N      |
| Q2      | 5N      |

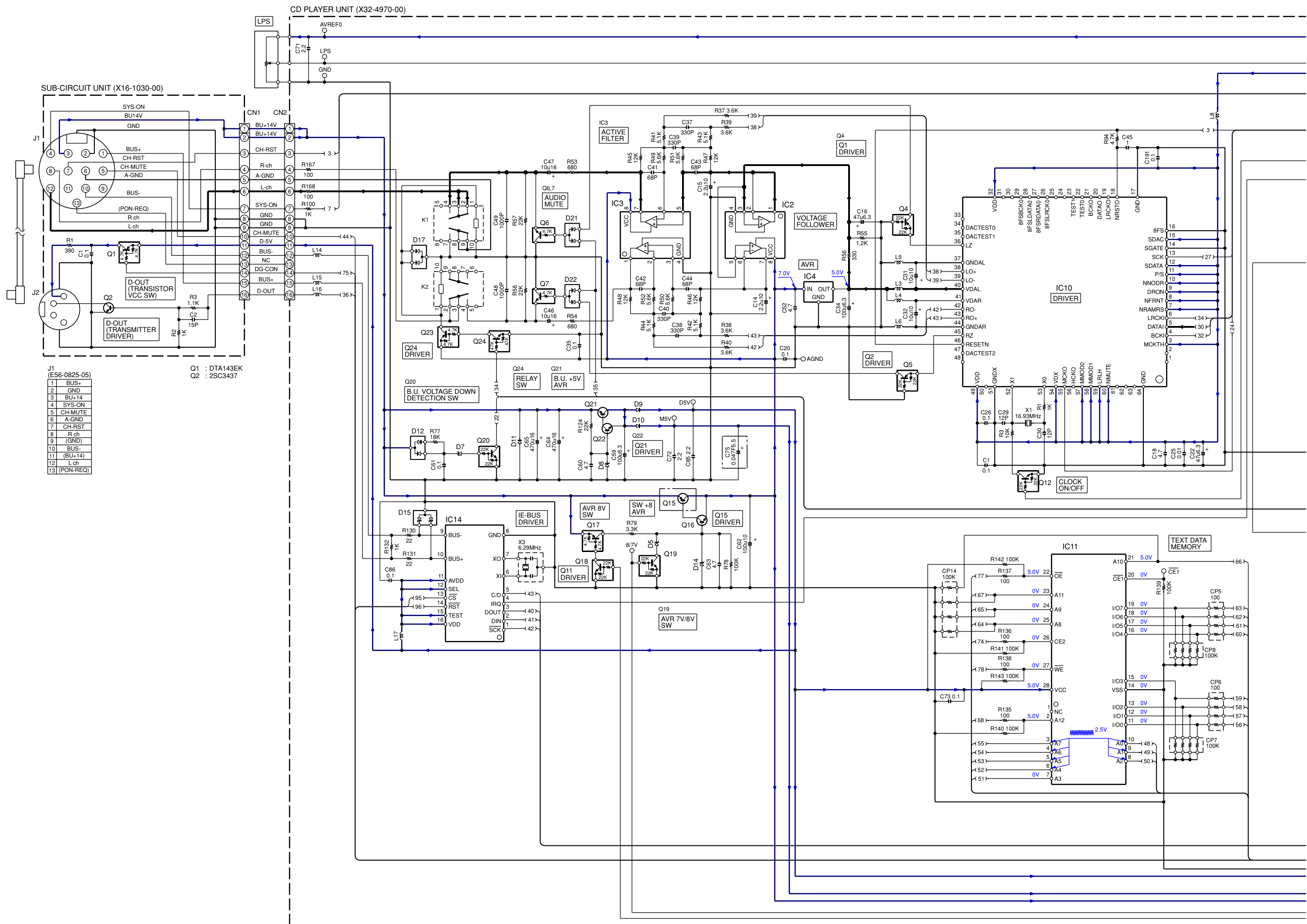
CD LAYER UNIT X32-4970-00 (J74-1133-11)



(X32-)

| Ref.No. | IC1 | IC2 | IC3 | IC4 | IC5 | IC7 | IC8 | IC9 | IC10 | IC11 | IC14 | Q1 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----|----|----|----|----|----|----|
| Address | 4P  | 4Q  | 4Q  | 3R  | 2S  | 4S  | 4R  | 4R  | 4P   | 3S   | 3S   | 2P | 3R | 3R | 3R | 3R | 3R | 2T |

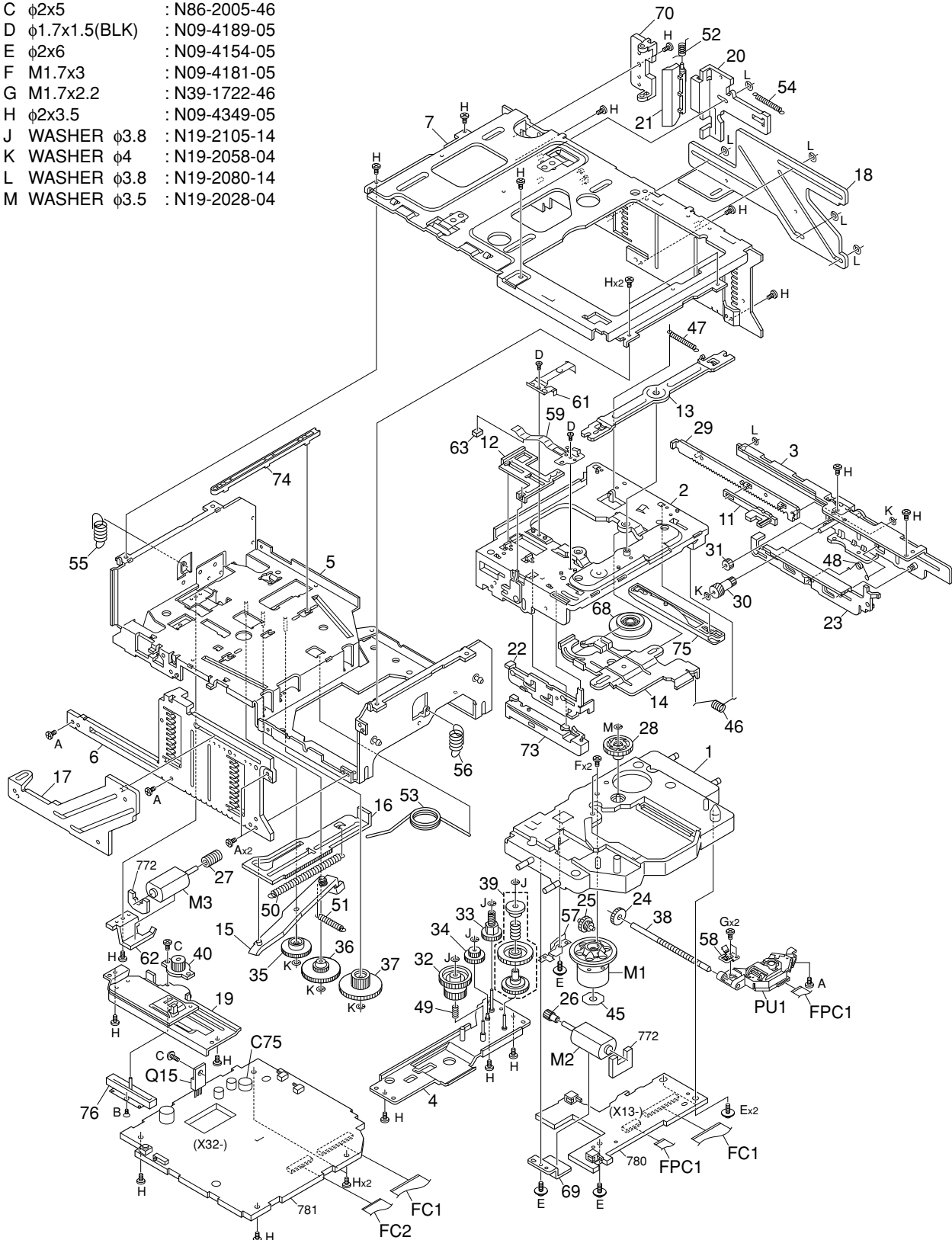
| Ref.No. | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18 | Q19 | Q20 | Q21 | Q22 | Q23 | Q24 | Q25 | Q31 | Q32 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Address | 4R  | 4R  | 4P  | 3R  | 3R  | 5Q  | 5Q  | 5R  | 5R  | 5R  | 4T  | 5Q  | 5Q  | 2Q  | 2R  | 3S  | 3D  | 3P  |





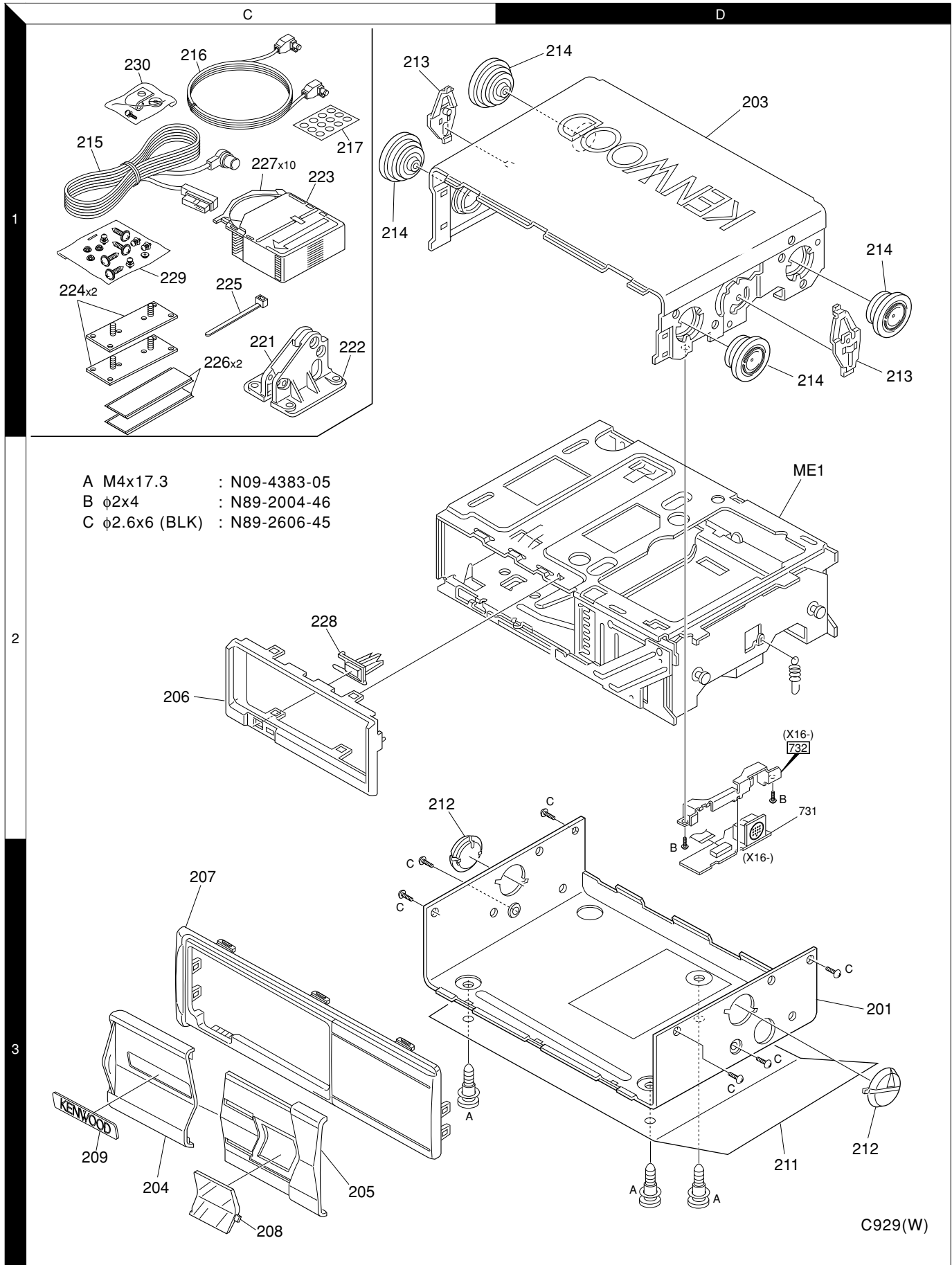
## EXPLODED VIEW (MECHANISM)

|   |               |               |
|---|---------------|---------------|
| A | φ2x3.5        | : N09-4126-05 |
| B | φ2x2.5(BLK)   | : N09-4288-05 |
| C | φ2x5          | : N86-2005-46 |
| D | φ1.7x1.5(BLK) | : N09-4189-05 |
| E | φ2x6          | : N09-4154-05 |
| F | M1.7x3        | : N09-4181-05 |
| G | M1.7x2.2      | : N39-1722-46 |
| H | φ2x3.5        | : N09-4349-05 |
| J | WASHER φ3.8   | : N19-2105-14 |
| K | WASHER φ4     | : N19-2058-04 |
| L | WASHER φ3.8   | : N19-2080-14 |
| M | WASHER φ3.5   | : N19-2028-04 |



C929(W) MECHA.

## EXPLODED VIEW (UNIT)



## PARTS LIST

\* New Parts

Parts without **Part No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No.                              | A<br>d<br>d | N<br>e<br>w | Parts No.   | Description                     | Desti-<br>nation |
|---------------------------------------|-------------|-------------|-------------|---------------------------------|------------------|
| <b>C929</b>                           |             |             |             |                                 |                  |
| 201                                   | 3D          | *           | A10-4859-01 | CHASSIS                         |                  |
| 203                                   | 1D          | *           | A01-2760-11 | METALLIC CABINET                |                  |
| 204                                   | 3C          | *           | A21-4112-02 | DRESSING PANEL (L)              |                  |
| 205                                   | 3C          | *           | A21-4113-02 | DRESSING PANEL (R)              |                  |
| 206                                   | 2C          | *           | A22-2896-02 | SUB PANEL                       |                  |
| 207                                   | 3C          | *           | A64-2380-01 | PANEL                           |                  |
| 208                                   | 3C          | *           | B10-4059-04 | FRONT GLASS                     |                  |
| 209                                   | 3C          | *           | B43-1285-04 | KENWOOD BADGE                   |                  |
| 211                                   | 3D          |             | B58-1275-04 | CAUTION CARD (TRANS. SCREW)     |                  |
| -                                     |             |             | B46-0100-50 | WARRANTY CARD                   |                  |
| -                                     |             |             | B46-0182-14 | ID CARD                         |                  |
| -                                     |             |             | B58-1236-04 | CAUTION CARD (CONNECTION CABLE) |                  |
| -                                     |             | *           | B58-1367-04 | CAUTION CARD (SCREW FOR HOLDER) |                  |
| -                                     |             | *           | B64-1936-00 | INST. MANUAL (ENG,FRE,SPA,POR)  |                  |
| -                                     |             | *           | B64-1937-00 | INST. MANUAL (GER,DUT,ITA)      |                  |
| -                                     |             | *           | B64-1938-00 | INST. MANUAL (CHI,KOR)          |                  |
| 212                                   | 3D          |             | D10-4515-03 | ARM                             |                  |
| 213                                   | 1C          |             | D10-4516-04 | LEVER                           |                  |
| 214                                   | 1C          |             | D39-0242-05 | DAMPER                          |                  |
| 215                                   | 1C          |             | E30-4591-05 | CORD WITH CONNECTOR             |                  |
| 216                                   | 1C          | *           | E30-4961-05 | CORD WITH CONNECTOR (WITH CAP)  |                  |
| 217                                   | 1C          |             | F19-1303-04 | BLIND PLATE                     |                  |
| -                                     |             |             | H02-0827-03 | INNER CARTON CASE (CD MAGAZINE) |                  |
| -                                     |             |             | H10-4729-02 | POLYSTYRENE FOAMED FIXTURE      |                  |
| -                                     |             | *           | H12-2693-04 | PACKING FIXTURE                 |                  |
| -                                     |             |             | H13-1706-04 | CARTON BOARD                    |                  |
| -                                     |             |             | H25-0337-04 | PROTECTION BAG (180X300X0.03)   |                  |
| -                                     |             |             | H25-1115-04 | PROTECTION BAG                  |                  |
| -                                     |             | *           | H54-2152-04 | ITEM CARTON CASE                |                  |
| 221                                   | 1C          |             | J19-5018-03 | BRACKET (L)                     |                  |
| 222                                   | 1C          |             | J19-5019-03 | BRACKET (R)                     |                  |
| 223                                   | 1C          |             | J19-5074-02 | HOLDER ASSY                     |                  |
| 224                                   | 1C          |             | J21-9588-04 | MOUNTING HARDWARE ASSY          |                  |
| 225                                   | 1C          |             | J61-0074-05 | WIRE BAND                       |                  |
| 226                                   | 1C          |             | J69-0506-04 | ADHESIVE TAPE                   |                  |
| 227                                   | 1C          |             | J99-0612-01 | TRAY                            |                  |
| 228                                   | 2C          |             | K24-3629-04 | KNOB (EJECT)                    |                  |
| 229                                   | 1C          |             | N99-1628-15 | SCREW SET (12-SCREW)            |                  |
| 230                                   | 1C          | *           | N99-1706-05 | SCREW SET (3-PIECE)             |                  |
| A                                     | 3D          |             | N09-4383-05 | STEPPED SCREW                   |                  |
| B                                     | 2D          |             | N89-2004-46 | BINDING HEAD TAPTITE SCREW      |                  |
| C                                     | 3D          |             | N89-2606-45 | BINDING HEAD TAPTITE SCREW      |                  |
| ME1                                   | 2D          | *           | X92-4020-00 | MECHANISM ASSY                  |                  |
| <b>SUB-CIRCUIT UNIT (X13-9850-00)</b> |             |             |             |                                 |                  |
| CN1                                   |             |             | E40-9487-05 | FLAT CABLE CONNECTOR            |                  |
| CN2                                   |             |             | E40-9536-05 | FLAT CABLE CONNECTOR            |                  |
| S1 ,2                                 |             |             | S74-0811-05 | MICRO SWITCH                    |                  |

(X16-1030-00)

| Ref. No.                              | A<br>d<br>d | N<br>e<br>w | Parts No.     | Description            | Desti-<br>nation |
|---------------------------------------|-------------|-------------|---------------|------------------------|------------------|
| <b>SUB-CIRCUIT UNIT (X16-1030-00)</b> |             |             |               |                        |                  |
| C1                                    |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |
| C2                                    |             |             | CC73GCH1H150J | CHIP C 15PF J          |                  |
| CN1                                   |             |             | E40-9555-05   | FLAT CABLE CONNECTOR   |                  |
| J1                                    |             |             | E56-0825-05   | CYLINDRICAL RECEPTACLE |                  |
| J2                                    |             |             | E56-0817-05   | CYLINDRICAL RECEPTACLE |                  |
| R1                                    |             |             | RK73EB2B391J  | CHIP R 390 J 1/8W      |                  |
| R2                                    |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W    |                  |
| R3                                    |             |             | RK73GB1J112J  | CHIP R 1.1K J 1/16W    |                  |
| Q1                                    |             |             | DTA143EK      | DIGITAL TRANSISTOR     |                  |
| Q2                                    |             |             | 2SC3437       | TRANSISTOR             |                  |
| <b>CD PLAYER UNIT (X32-4970-00)</b>   |             |             |               |                        |                  |
| C1                                    |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |
| C2                                    |             |             | C92-0628-05   | CHIP-TAN 10UF 10WV     |                  |
| C3                                    |             |             | CK73GB1H682K  | CHIP C 6800PF K        |                  |
| C4                                    |             |             | CK73GB1H152K  | CHIP C 1500PF K        |                  |
| C5                                    |             |             | CC73GCH1H560J | CHIP C 56PF J          |                  |
| C6                                    |             |             | CC73GCH1H151J | CHIP C 150PF J         |                  |
| C7                                    |             |             | CC73GCH1H040C | CHIP C 4.0PF C         |                  |
| C8                                    |             |             | CC73GCH1H180J | CHIP C 18PF J          |                  |
| C9                                    |             |             | CK73GB1A224K  | CHIP C 0.22UF K        |                  |
| C10                                   |             |             | CK73GB1H222K  | CHIP C 2200PF K        |                  |
| C11                                   |             |             | CK73GB1H682K  | CHIP C 6800PF K        |                  |
| C12 ,13                               |             |             | CK73GB1H103K  | CHIP C 0.010UF K       |                  |
| C14 ,15                               |             |             | C92-0514-05   | CHIP-TAN 2.2UF 10WV    |                  |
| C16                                   |             |             | C92-1389-05   | ELECTRO 47UF 6.3WV     |                  |
| C17                                   |             |             | CK73FB1A225K  | CHIP C 2.2UF K         |                  |
| C18                                   |             |             | CK73EB1A475K  | CHIP C 4.7UF K         |                  |
| C19                                   |             |             | CK73FB1A225K  | CHIP C 2.2UF K         |                  |
| C20                                   |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |
| C21                                   |             |             | CK73GB1H681K  | CHIP C 680PF K         |                  |
| C22                                   |             |             | C92-1389-05   | ELECTRO 47UF 6.3WV     |                  |
| C23                                   |             |             | CK73EB1A475K  | CHIP C 4.7UF K         |                  |
| C24                                   |             |             | CK73GB1H102K  | CHIP C 1000PF K        |                  |
| C25                                   |             |             | CK73GB1H103K  | CHIP C 0.010UF K       |                  |
| C26                                   |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |
| C29 ,30                               |             |             | CC73GCH1H120J | CHIP C 12PF J          |                  |
| C31 ,32                               |             |             | C92-0628-05   | CHIP-TAN 10UF 10WV     |                  |
| C33                                   |             |             | CK73GB1H222K  | CHIP C 2200PF K        |                  |
| C34                                   |             |             | C92-1390-05   | ELECTRO 100UF 6.3WV    |                  |
| C35                                   |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |
| C37 -40                               |             |             | CK73GB1H331K  | CHIP C 330PF K         |                  |
| C41 -44                               |             |             | CC73GCH1H680J | CHIP C 68PF J          |                  |
| C45                                   |             |             | CK73GB0J105K  | CHIP C 1.0UF K         |                  |
| C46 ,47                               |             |             | C92-1393-05   | ELECTRO 10UF 16WV      |                  |
| C48 ,49                               |             |             | CK73GB1H102K  | CHIP C 1000PF K        |                  |
| C52                                   |             |             | CK73EB1A475K  | CHIP C 4.7UF K         |                  |
| C55                                   |             |             | C92-0628-05   | CHIP-TAN 10UF 10WV     |                  |
| C56                                   |             |             | CK73EB1A475K  | CHIP C 4.7UF K         |                  |
| C59                                   |             |             | C92-1390-05   | ELECTRO 100UF 6.3WV    |                  |
| C60                                   |             |             | CK73EB1A475K  | CHIP C 4.7UF K         |                  |
| C61                                   |             |             | CK73GB1C104K  | CHIP C 0.10UF K        |                  |

E : Europe K : North America M : Other Areas

⚠ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(X32-4970-00)

| Ref. No. | A<br>d<br>d | N<br>e<br>w | Parts No.     | Description          | Desti-<br>nation |
|----------|-------------|-------------|---------------|----------------------|------------------|
| C62      |             |             | C92-1392-05   | ELECTRO 100UF 10WV   |                  |
| C63      |             |             | CK73EB1A475K  | CHIP C 4.7UF K       |                  |
| C64 ,65  |             |             | C92-1388-05   | ELECTRO 470UF 16WV   |                  |
| C67 -69  |             |             | CK73GB1C104K  | CHIP C 0.10UF K      |                  |
| C70      |             |             | CC73GCH1H101J | CHIP C 100PF J       |                  |
| C71 ,72  |             |             | CK73FB1A225K  | CHIP C 2.2UF K       |                  |
| C73      |             |             | CK73GB1C104K  | CHIP C 0.10UF K      |                  |
| C85      |             |             | CK73FB1A225K  | CHIP C 2.2UF K       |                  |
| C86      |             |             | CK73GB1C104K  | CHIP C 0.10UF K      |                  |
| C190     |             |             | CK73GB1H681K  | CHIP C 680PF K       |                  |
| C191     |             |             | CK73GB1C104K  | CHIP C 0.10UF K      |                  |
| C200-206 |             |             | CK73GB1C104K  | CHIP C 0.10UF K      |                  |
| CN1      |             |             | E40-9338-05   | FLAT CABLE CONNECTOR |                  |
| CN2      |             |             | E40-9404-05   | FLAT CABLE CONNECTOR |                  |
| L2       |             |             | L92-0322-05   | CHIP FERRITE         |                  |
| L3 -8    |             |             | L92-0314-05   | CHIP FERRITE         |                  |
| L14 ,15  |             |             | L92-0319-05   | CHIP FERRITE         |                  |
| L16 ,17  |             |             | L92-0314-05   | CHIP FERRITE         |                  |
| X1       |             |             | L77-2081-05   | CRYSTAL RESONATOR    |                  |
| X2       |             |             | L78-0568-05   | RESONATOR            |                  |
| X3       |             |             | L78-0576-05   | RESONATOR (6.29MHZ)  |                  |
| CP3      |             |             | R90-0720-05   | MULTI-COMP 100K X4   |                  |
| CP5 ,6   |             |             | R90-1014-05   | MULTI-COMP 100 X4    |                  |
| CP7 ,8   |             |             | R90-0720-05   | MULTI-COMP 100K X4   |                  |
| CP9      |             |             | R90-0725-05   | MULTI-COMP 1K X2     |                  |
| CP10-12  |             |             | R90-1014-05   | MULTI-COMP 100 X4    |                  |
| CP14,15  |             |             | R90-0720-05   | MULTI-COMP 100K X4   |                  |
| CP16     |             |             | R90-0724-05   | MULTI-COMP 1K X4     |                  |
| CP17     |             |             | R90-0720-05   | MULTI-COMP 100K X4   |                  |
| CP18     |             |             | R90-0725-05   | MULTI-COMP 1K X2     |                  |
| CP19     |             |             | R90-1014-05   | MULTI-COMP 100 X4    |                  |
| CP20     |             |             | R90-0737-05   | MULTI-COMP 100K X2   |                  |
| R1       |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R3       |             |             | RK73GB1J103J  | CHIP R 10K J 1/16W   |                  |
| R4       |             |             | RK73GB1J391J  | CHIP R 390 J 1/16W   |                  |
| R5       |             |             | RK73GB1J302J  | CHIP R 3.0K J 1/16W  |                  |
| R7       |             |             | RK73GB1J302J  | CHIP R 3.0K J 1/16W  |                  |
| R8       |             |             | RK73EB2B100J  | CHIP R 10 J 1/8W     |                  |
| R9       |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R10      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R11      |             |             | RK73GB1J101J  | CHIP R 100 J 1/16W   |                  |
| R15      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R16      |             |             | RK73GB1J562J  | CHIP R 5.6K J 1/16W  |                  |
| R17      |             |             | RK73EB2B103J  | CHIP R 10K J 1/8W    |                  |
| R18      |             |             | RK73GB1J103J  | CHIP R 10K J 1/16W   |                  |
| R19      |             |             | RK73GB1J333J  | CHIP R 33K J 1/16W   |                  |
| R20      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R21      |             |             | RK73GB1J123J  | CHIP R 12K J 1/16W   |                  |
| R22      |             |             | RK73GB1J682J  | CHIP R 6.8K J 1/16W  |                  |
| R25      |             |             | RK73GB1J113J  | CHIP R 11K J 1/16W   |                  |
| R26      |             |             | RK73EB2B123J  | CHIP R 12K J 1/8W    |                  |
| R33      |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R37 -40  |             |             | RK73GB1J362J  | CHIP R 3.6K J 1/16W  |                  |
| R41 -44  |             |             | RK73GB1J512J  | CHIP R 5.1K J 1/16W  |                  |
| R45 -48  |             |             | RK73GB1J123J  | CHIP R 12K J 1/16W   |                  |
| R49 -52  |             |             | RK73GB1J562J  | CHIP R 5.6K J 1/16W  |                  |
| R53 ,54  |             |             | RK73GB1J681J  | CHIP R 680 J 1/16W   |                  |
| R55      |             |             | RK73GB1J122J  | CHIP R 1.2K J 1/16W  |                  |
| R56      |             |             | RK73GB1J331J  | CHIP R 330 J 1/16W   |                  |
| R57 ,58  |             |             | RK73GB1J223J  | CHIP R 22K J 1/16W   |                  |
| R67      |             |             | RK73GB1J124J  | CHIP R 120K J 1/16W  |                  |
| R68      |             |             | RK73EB2B124J  | CHIP R 120K J 1/8W   |                  |
| R69 ,70  |             |             | RK73GB1J303J  | CHIP R 30K J 1/16W   |                  |
| R71      |             |             | RK73GB1J912J  | CHIP R 9.1K J 1/16W  |                  |
| R72 ,73  |             |             | RK73GB1J101J  | CHIP R 100 J 1/16W   |                  |
| R74 ,75  |             |             | RK73GB1J223J  | CHIP R 22K J 1/16W   |                  |
| R76      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R77      |             |             | RK73GB1J183J  | CHIP R 18K J 1/16W   |                  |
| R78      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R79      |             |             | RK73GB1J332J  | CHIP R 3.3K J 1/16W  |                  |
| R80      |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R81      |             |             | RK73GB1J103J  | CHIP R 10K J 1/16W   |                  |
| R82 -84  |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R85 -87  |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R94      |             |             | RK73GB1J472J  | CHIP R 4.7K J 1/16W  |                  |
| R95 ,96  |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R97 ,98  |             |             | RK73GB1J103J  | CHIP R 10K J 1/16W   |                  |
| R99      |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R100     |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R105,106 |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R110-113 |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R121-123 |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R124     |             |             | RK73GB1J223J  | CHIP R 22K J 1/16W   |                  |
| R126     |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R130,131 |             |             | RK73GB1J220J  | CHIP R 22 J 1/16W    |                  |
| R132     |             |             | RK73GB1J102J  | CHIP R 1.0K J 1/16W  |                  |
| R134     |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R135-138 |             |             | RK73GB1J101J  | CHIP R 100 J 1/16W   |                  |
| R139-143 |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R152     |             |             | RK73GB1J184J  | CHIP R 180K J 1/16W  |                  |
| R153,154 |             |             | RK73GB1J472J  | CHIP R 4.7K J 1/16W  |                  |
| R155,156 |             |             | RK73GB1J101J  | CHIP R 100 J 1/16W   |                  |
| R158,159 |             |             | RK73GB1J223J  | CHIP R 22K J 1/16W   |                  |
| R161     |             |             | RK73GB1J163J  | CHIP R 16K J 1/16W   |                  |
| R162     |             |             | RK73GB1J472J  | CHIP R 4.7K J 1/16W  |                  |
| R166     |             |             | RK73GB1J104J  | CHIP R 100K J 1/16W  |                  |
| R167,168 |             |             | RK73EB2B101J  | CHIP R 100 J 1/8W    |                  |
| R190,191 |             |             | RK73GB1J123J  | CHIP R 12K J 1/16W   |                  |
| R201-204 |             |             | RK73GB1J100J  | CHIP R 10 J 1/16W    |                  |
| R205     |             |             | RK73EB2B102J  | CHIP R 1.0K J 1/8W   |                  |
| R206     |             |             | RK73GB1J393J  | CHIP R 39K J 1/16W   |                  |
| R207     |             |             | RK73GB1J684J  | CHIP R 680K J 1/16W  |                  |
| R208     |             |             | RK73EB2B101J  | CHIP R 100 J 1/8W    |                  |
| W2       |             |             | R92-1252-05   | CHIP R 0 OHM         |                  |
| W5 -7    |             |             | R92-1252-05   | CHIP R 0 OHM         |                  |
| W8       |             |             | R92-2053-05   | CHIP R 0 J 1/8W      |                  |
| K1 ,2    |             |             | S76-0808-05   | MAGNETIC RELAY       |                  |

E : Europe K : North America M : Other Areas

⚠ indicates safety critical components.

## PARTS LIST

\* New Parts

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| Ref. No. | A<br>d<br>d | N<br>e<br>w | Parts No.      | Description        | Desti-<br>nation |
|----------|-------------|-------------|----------------|--------------------|------------------|
| S1       |             |             | S68-0823-05    | PUSH SWITCH        |                  |
| S2       |             |             | S70-0838-05    | TACT SWITCH        |                  |
| S3       |             |             | S68-0823-05    | PUSH SWITCH        |                  |
| S4       |             |             | S62-0863-05    | SLIDE SWITCH       |                  |
| D1       |             |             | DAP202U        | DIODE              |                  |
| D5       |             |             | MA8075-M       | ZENER DIODE        |                  |
| D7       |             |             | MA8056-M       | ZENER DIODE        |                  |
| D8       |             |             | MA8062-M       | ZENER DIODE        |                  |
| D9 ,10   |             |             | M1F60          | DIODE              |                  |
| D11      |             |             | 1SR154-400     | DIODE              |                  |
| D12      |             |             | DA204K         | DIODE              |                  |
| D14      |             |             | MA8091-M       | ZENER DIODE        |                  |
| D15      |             |             | RD6.2Z         | ZENER DIODE        |                  |
| D16      |             |             | DAP202U        | DIODE              |                  |
| D17 ,18  |             |             | DAP202K        | DIODE              |                  |
| D21 ,22  |             |             | DAN202K        | DIODE              |                  |
| D23 ,24  |             |             | DAN202U        | DIODE              |                  |
| IC1      |             |             | UPD63711AGC    | MOS-IC             |                  |
| IC2      |             |             | NJM4580MD      | ANALOGUE IC        |                  |
| IC3      |             |             | NJM5532MD      | IC(OP AMP)         |                  |
| IC4      |             |             | KIA78L05F      | ANALOGUE IC        |                  |
| IC5      |             |             | LA6576         | ANALOGUE IC        |                  |
| IC7      |             |             | UPD784214GC092 | MI-COM IC          |                  |
| IC8      |             |             | BR24C02F-W     | MEMORY IC          |                  |
| IC8      |             |             | CAT24WC02JI    | MEMORY IC          |                  |
| IC8      |             |             | M24C02WMN6T    | MEMORY IC          |                  |
| IC8      |             |             | S-24C02BFJA    | MEMORY IC          |                  |
| IC9      |             |             | S-80830ANNP    | MOS-IC             |                  |
| IC10     |             |             | KKZ05F         | CUSTOM IC          |                  |
| IC11     |             |             | LC3564BT-70    | MEMORY IC          |                  |
| IC14     |             |             | UPD72042BGT    | MOS-IC             |                  |
| Q1       |             |             | MCH6101        | TRANSISTOR         |                  |
| Q4       |             |             | DTA124EK       | DIGITAL TRANSISTOR |                  |
| Q5       |             |             | DTA124EUA      | DIGITAL TRANSISTOR |                  |
| Q6 ,7    |             |             | DTC343TK       | DIGITAL TRANSISTOR |                  |
| Q8       |             |             | DTA124EK       | DIGITAL TRANSISTOR |                  |
| Q9       |             |             | 2SB1202        | TRANSISTOR         |                  |
| Q10      |             |             | 2SB1295        | TRANSISTOR         |                  |
| Q11      |             |             | DTC124EK       | DIGITAL TRANSISTOR |                  |
| Q12 ,13  |             |             | DTC124EUA      | DIGITAL TRANSISTOR |                  |
| Q14      |             |             | DTA143EK       | DIGITAL TRANSISTOR |                  |
| Q16      |             |             | 2SC4081        | TRANSISTOR         |                  |
| Q17      |             |             | DTA143EK       | DIGITAL TRANSISTOR |                  |
| Q18      |             |             | DTC124EK       | DIGITAL TRANSISTOR |                  |
| Q19      |             |             | DTC124EUA      | DIGITAL TRANSISTOR |                  |
| Q20      |             |             | DTC124EK       | DIGITAL TRANSISTOR |                  |
| Q21      |             |             | 2SB1202        | TRANSISTOR         |                  |
| Q22      |             |             | 2SC4081        | TRANSISTOR         |                  |
| Q23      |             |             | DTA143EK       | DIGITAL TRANSISTOR |                  |
| Q24      |             |             | DTC144EK       | DIGITAL TRANSISTOR |                  |
| Q25      |             |             | DTC124EK       | DIGITAL TRANSISTOR |                  |
| Q31      |             |             | DTC124EUA      | DIGITAL TRANSISTOR |                  |
| Q32      |             |             | DTC114YUA      | DIGITAL TRANSISTOR |                  |
| TH1      |             |             | NTH5G20B333K07 | THERMISTOR         |                  |

(X92-4020-00)

| Ref. No.                            | A<br>d<br>d | N<br>e<br>w | Parts No.   | Description                   | Desti-<br>nation |
|-------------------------------------|-------------|-------------|-------------|-------------------------------|------------------|
| <b>MECHANISM ASSY (X92-4020-00)</b> |             |             |             |                               |                  |
| 1                                   | 2B          |             | A10-4745-03 | CHASSIS ASSY                  |                  |
| 2                                   | 2B          |             | A10-4748-02 | CHASSIS CALKING ASSY          |                  |
| 3                                   | 2B          |             | A10-4751-03 | CHASSIS CALKING ASSY          |                  |
| 4                                   | 3A          |             | A10-4754-04 | CHASSIS CALKING ASSY          |                  |
| 5                                   | 2A          |             | A10-4757-02 | CHASSIS CALKING ASSY          |                  |
| 6                                   | 2A          |             | A10-4759-02 | CHASSIS                       |                  |
| 7                                   | 1A          |             | A10-4760-02 | CHASSIS CALKING ASSY          |                  |
| C75                                 | 3A          |             | C90-2945-05 | ELECTRO 0.047F 5.5WV          |                  |
| 11                                  | 2B          |             | D10-4293-03 | ARM                           |                  |
| 12                                  | 2A          |             | D10-4527-03 | SLIDER                        |                  |
| 13                                  | 2B          |             | D10-4528-03 | ARM                           |                  |
| 14                                  | 2B          |             | D10-4529-03 | LEVER                         |                  |
| 15                                  | 3A          |             | D10-4531-04 | LEVER ASSY                    |                  |
| 16                                  | 2A          |             | D10-4533-03 | LEVER                         |                  |
| 17                                  | 2A          |             | D10-4534-04 | SLIDER ASSY                   |                  |
| 18                                  | 1B          |             | D10-4536-13 | SLIDER                        |                  |
| 19                                  | 3A          |             | D10-4537-04 | SLIDER ASSY                   |                  |
| 20                                  | 1B          |             | D10-4540-13 | ARM                           |                  |
| 21                                  | 1B          |             | D10-4547-03 | LEVER                         |                  |
| 22                                  | 2B          |             | D12-0630-02 | CAM                           |                  |
| 23                                  | 2B          |             | D12-0631-02 | CAM                           |                  |
| 24                                  | 3B          |             | D13-2185-04 | GEAR                          |                  |
| 25                                  | 3B          |             | D13-2186-04 | GEAR                          |                  |
| 26                                  | 3B          |             | D13-2187-04 | GEAR                          |                  |
| 27                                  | 3A          |             | D13-2188-04 | WORM                          |                  |
| 28                                  | 2B          |             | D13-2092-04 | GEAR                          |                  |
| 29                                  | 2B          |             | D13-2093-04 | GEAR ASSY                     |                  |
| 30                                  | 2B          |             | D13-2095-04 | GEAR                          |                  |
| 31                                  | 2B          |             | D13-2096-04 | GEAR                          |                  |
| 32                                  | 3A          |             | D13-2099-04 | GEAR                          |                  |
| 33                                  | 3A          |             | D13-2100-04 | GEAR                          |                  |
| 34                                  | 3A          |             | D13-2101-04 | GEAR                          |                  |
| 35                                  | 3A          |             | D13-2102-04 | GEAR                          |                  |
| 36                                  | 3A          |             | D13-2103-04 | GEAR                          |                  |
| 37                                  | 3A          |             | D13-2104-04 | GEAR                          |                  |
| 38                                  | 3B          |             | D19-0636-04 | LEAD SCREW                    |                  |
| 39                                  | 3A          |             | D19-0637-04 | CLUTCH ASSY                   |                  |
| 40                                  | 3A          |             | D39-0225-05 | DAMPER                        |                  |
| FC1                                 | 3A          |             | E39-0172-15 | FLAT CABLE (23P)              |                  |
| FC2                                 | 3A          |             | E39-0173-15 | FLAT CABLE (16P)              |                  |
| 45                                  | 3B          |             | F09-1645-04 | SHEET                         |                  |
| 46                                  | 2B          |             | G01-3036-04 | TORSION COIL SPRING           |                  |
| 47                                  | 1B          |             | G01-3037-04 | EXTENSION COIL SPRING         |                  |
| 48                                  | 2B          |             | G01-3038-04 | TORSION COIL SPRING           |                  |
| 49                                  | 3A          |             | G01-3039-04 | COMPRESSION COIL SPRING       |                  |
| 50                                  | 3A          |             | G01-3040-04 | EXTENSION COIL SPRING         |                  |
| 51                                  | 3A          |             | G01-3041-04 | EXTENSION COIL SPRING         |                  |
| 52                                  | 1B          |             | G01-3042-04 | TORSION COIL SPRING           |                  |
| 53                                  | 2A          |             | G01-3043-04 | TORSION COIL SPRING           |                  |
| 54                                  | 1B          |             | G01-3044-04 | EXTENSION COIL SPRING         |                  |
| 55                                  | 2A          |             | G01-3045-04 | EXTENSION COIL SPRING (BLACK) |                  |

E : Europe K : North America M : Other Areas

⚠ indicates safety critical components.

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| Ref. No. | A<br>d<br>d | N<br>e<br>w | Parts No.    | Description                    | Desti-<br>nation |
|----------|-------------|-------------|--------------|--------------------------------|------------------|
| 56       | 2A          |             | G01-3046-04  | EXTENSION COIL SPRING (SILVER) |                  |
| 57       | 3B          |             | G02-1374-04  | FLAT SPRING                    |                  |
| 58       | 3B          |             | G02-1375-03  | FLAT SPRING                    |                  |
| 59       | 2B          |             | G02-1376-03  | FLAT SPRING                    |                  |
| 61       | 2B          |             | G02-1378-04  | FLAT SPRING                    |                  |
| 62       | 3A          |             | G02-1380-04  | FLAT SPRING                    |                  |
| 63       | 2A          |             | G10-1045-14  | FELT                           |                  |
| 68       | 2B          |             | J11-0637-03  | CLAMPER                        |                  |
| 69       | 3B          |             | J21-9592-04  | MOUNTING HARDWARE              |                  |
| 70       | 1B          |             | J21-9595-03  | MOUNTING HARDWARE              |                  |
| 73       | 2B          |             | J90-0759-03  | GUIDE                          |                  |
| 74       | 2A          |             | J90-0760-03  | RAIL                           |                  |
| 75       | 2B          |             | J90-0777-23  | GUIDE                          |                  |
| FPC1     | 3B          |             | J84-0099-05  | RIGID PRINTED WIRING BOARD     |                  |
| A        | 2A          |             | N09-4126-05  | MACHINE SCREW (2X3.5)          |                  |
| B        | 3A          |             | N09-4288-05  | TAPTITE SCREW (2X2.5)          |                  |
| C        | 3A          |             | N86-2005-46  | BINDING HEAD TAPTITE SCREW     |                  |
| D        | 2B          |             | N09-4189-05  | TAPTITE SCREW (1.7X1.5)        |                  |
| E        | 3B          |             | N09-4154-05  | TAPTITE SCREW (2X6)            |                  |
| F        | 2B          |             | N09-4181-05  | MACHINE SCREW (M1.7X3)         |                  |
| G        | 3B          |             | N39-1722-46  | PAN HEAD MACHINE SCREW         |                  |
| H        | 1A          |             | N09-4349-05  | TAPTITE SCREW (2X3.5)          |                  |
| J        | 3A          |             | N19-2105-14  | FLAT WASHER (1.55X3.8X0.35)    |                  |
| K        | 3A          |             | N19-2058-04  | FLAT WASHER (1.6X4X0.25)       |                  |
| L        | 1B          |             | N19-2080-14  | FLAT WASHER (1.55X3.8X0.3)     |                  |
| M        | 2B          |             | N19-2028-04  | FLAT WASHER (1.6X3.5X0.25)     |                  |
| 76       | 3A          |             | R33-0207-05  | SLIDE TYPE VARIABLE RESISTOR   |                  |
| M1       | 3B          |             | T42-0797-04  | MOTOR ASSY                     |                  |
| M2 ,3    | 3A          |             | T42-0788-05  | DC MOTOR                       |                  |
| PU1      | 3B          |             | T25-0216-05  | OPTICAL PICKUP HEAD            |                  |
| Q15      | 3A          |             | 2SB1565(E,F) | TRANSISTOR                     |                  |

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|----------|-------------|-------------|-----------|-------------|------------------|
|          |             |             |           |             |                  |

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 indicates safety critical components.

## SPECIFICATIONS

|         |                                       |                                   |
|---------|---------------------------------------|-----------------------------------|
| CD      | Laser Diode                           | GaAlAs ( $\lambda=780\text{nm}$ ) |
|         | Digital Filter (D/A)                  | 8 Times Over Sampling             |
|         | D/A Converter                         | 1 Bit                             |
|         | Spindle Speed                         | 200rpm-500rpm (CLV)               |
|         | Wow & Flutter                         | Below Mesurable Limit             |
|         | Frequency Response                    | 5Hz-20KHz ( $\pm 1\text{dB}$ )    |
|         | Total Harmonic Distortion             | 0.005% (1KHz)                     |
|         | S/N Ratio                             | 110dB (1KHz)                      |
|         | Dinamic Range                         | 96dB                              |
|         | Channel Separation                    | 96dB                              |
| GENERAL | Operating Voltage (11V-16V allowable) | 14.4V                             |
|         | Current Consumption                   | 0.8A                              |
|         | Installation Size (Width)             | 250mm                             |
|         | (Height)                              | 80mm                              |
|         | (Depth)                               | 176mm                             |
|         | Weight                                | 2.0Kg                             |

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**KENWOOD** follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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