

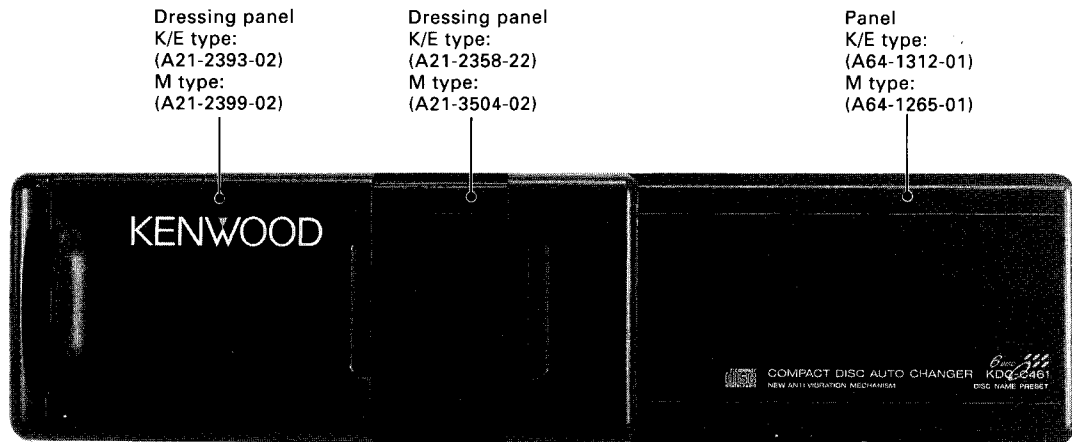
CD AUTO CHANGER

KDC-C461

SERVICE MANUAL

KENWOOD

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B51-7224-00(MC)3300

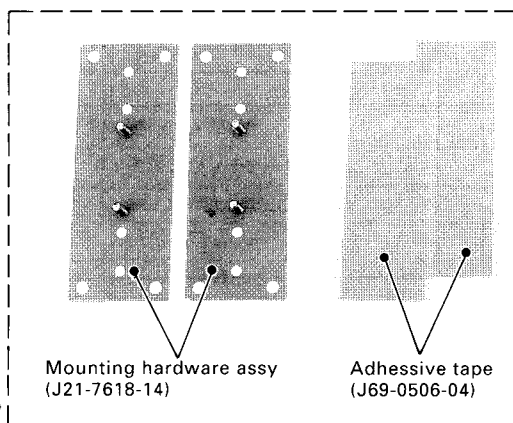


Holder assy (magazine)
(J19-4687-02)

*Refer to the parts list.

Bracket (R)
(J19-4715-03)

Bracket (L)
(J19-4713-03)



M type only

Blind plate
(F19-1303-04)

Screw set
K/E type:
(N99-1645-05)
M type:
(N99-1628-15)

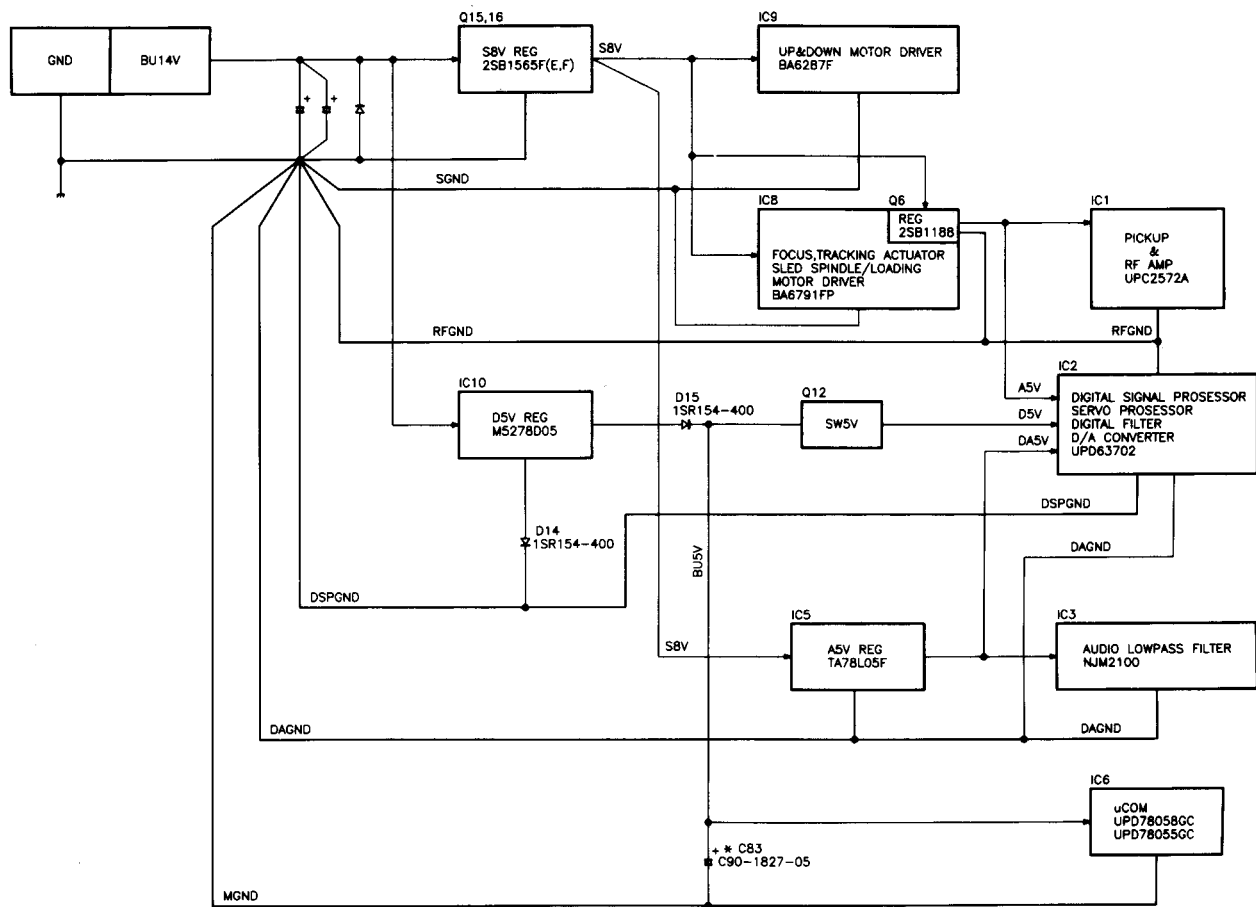
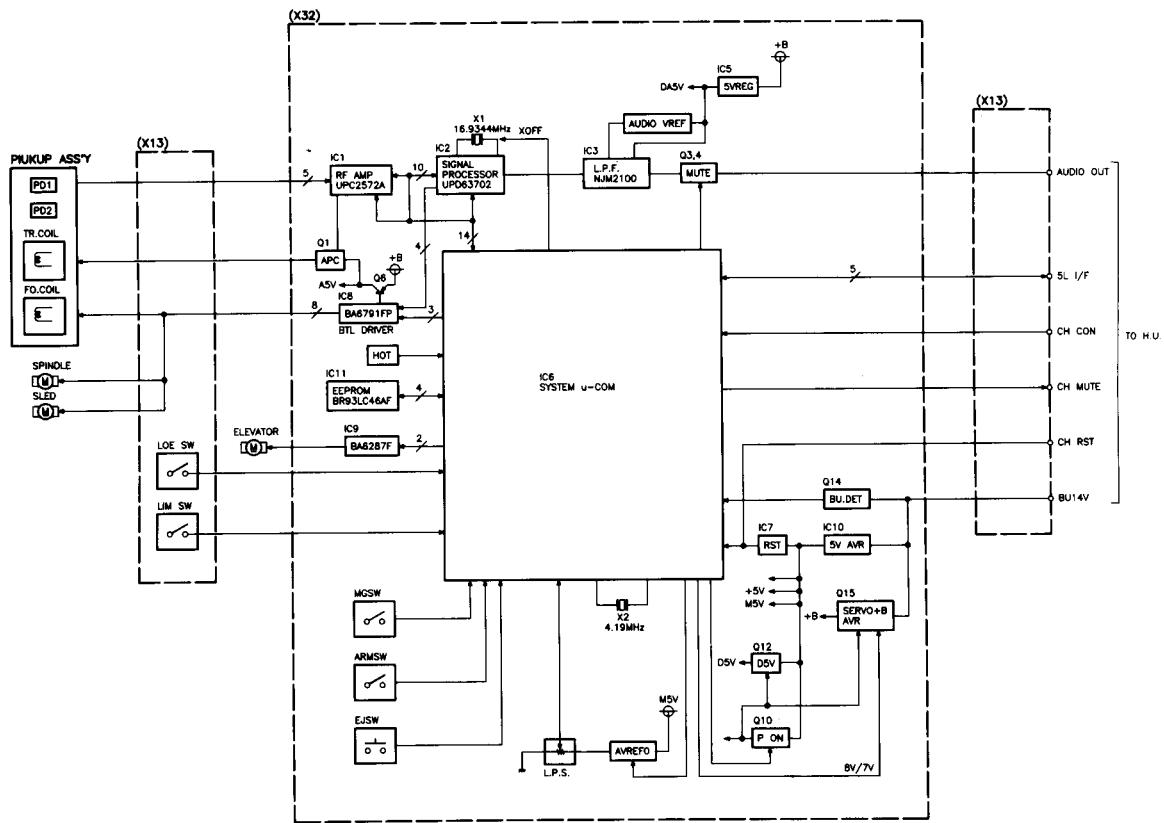
Cord with plug
(E30-4138-05)

CAUTION (N09-4186-15)

Remove all 3 transportation screws for protecting the internal mechanism before you start to install the unit. If the unit is used without removing the screw, sound skip or failure may occur. After removing the transport screw, retain it carefully and attach it again before transporting the unit again.

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BLOCK DIAGRAM



COMPONENTS DESCRIPTION

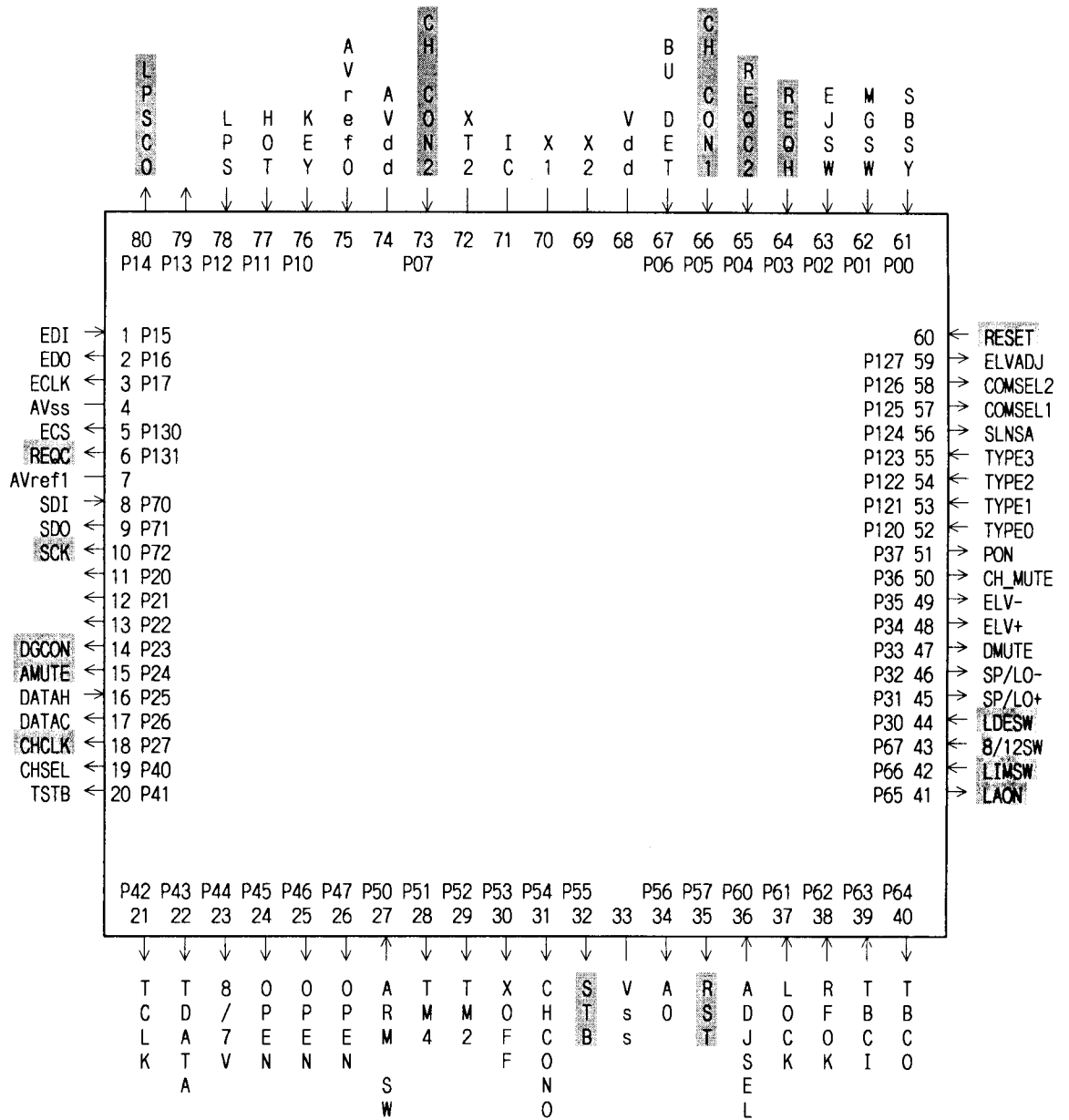
CD PLAYER UNIT(X32-4260-00)

| Ref.No. | Prts No. | Use and Function | Operation and condition |
|---------|----------------|---|--|
| IC1 | PC2572A | RF amp & error amp | RF amplifier, focusing/tracking error amplifier, APC circuit, reference amplifier, mirror circuit, defect circuit, RF OK circuit, EFM comparator and vibration detector circuit. |
| IC2 | PD63702 | Digital servo data processor | Digital servo data processor, 8fs oversampling filter, D/A converter, digital loop filter. |
| IC3 | NJM2100M | D/A converter output active filter | Differential amplifier. |
| IC5 | TA78L05F | 3-pin regulator | Supplies 5 V to the D/A converter and active filter. |
| IC6 | uPD78058GCA04T | System u-COM | |
| IC7 | PST9137NR | Reset IC | |
| IC8 | BA6791FP | Motor drive | Drives the focusing/tracking actuators, sled motor and spindle motor. |
| IC9 | BA6287F | Motor drive | Drives the mechanism deck up-down motor. |
| IC10 | M5278D05 | 3-pin regulator | 5 V power supply for the servo circuitry. |
| IC11 | AK93C45AF | Memory IC | Storage of data on the initial position of the mechanism deck up-down operation and on the distinction between 10-disc and 6-disc changer. |
| Q1 | 2SA1362(Y) | Laser control | Controls the laser current according to the voltage output from the IC1 LD terminal. |
| Q2 | DTC124EK | Clock ON/OFF | Clock is turned OFF when the IC6 XOFF terminal outputs "H". |
| Q3,Q4 | 2SD2114K | Audio muting | Muting is turned ON when IC6 A.MUTE outputs "L". |
| Q5 | DTA124EK | Audio muting | Muting is turned ON when IC6 A.MUTE outputs "L". |
| Q6 | 2SB1188 | 5 V optics power | Supplies the power from AVR 8 V to the A.VDD of the P-U, IC1 and IC2. |
| Q7 | DTC124EK | H/U communication control | Inverts the CH-CON logic. |
| Q8 | DTC124EK | Reset SW | The microcomputer is reset when CH-RST goes "H". |
| Q9 | DTA114EK | LPS power SW | Goes ON when LPSCO of IC6 goes "L" at P-ON or during up-down operation. |
| Q10 | 2SA1362(Y) | P-ON SW | |
| Q11 | DTA143EK | H/U communication control | Inverts the CH-MUTE logic. |
| Q12 | 2SA1362(Y) | Servo 5 V drive | |
| Q13 | DTC124EK | Servo 5 V SW | Goes ON/OFF at P-ON. |
| Q14 | DTC124EK | B-U power detect SW | |
| Q15 | 2SB1655(E,F) | 8 V AVR drive | |
| Q16 | 2SC2412K | 8 V AVR drive | |
| Q17 | DTA143EK | 8 V AVR SW | Turned ON/OFF by P-ON. |
| Q18 | DTC124EK | 8 V AVR SW | Turned ON/OFF by P-ON. |
| Q19 | DTC124EK | AVR 8 V/7 V SW | 7 V when "H" (normal play mode).8 V when "L" (mechanism loading-ejection operation, ELV). |
| Q20,Q21 | DTC114YK | Focusing/tracking hold upon scratch detection | When a scratch is detected, holds the focusing error and tracking error signals at the reference. |
| Q22 | 2SC2412K | Scratch detect SW | |

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MICROCOMPUTER'S TERMINAL DESCRIPTION

(X32-) IC6: UPD78058GCA04T
Terminal connection



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MICROCOMPUTER'S TERMINAL DESCRIPTION

Terminal connection

| Pin No. | Pin Name | I/O | Name | Pin Type | Function |
|---------|----------|-----|--------|-----------------|--|
| 1 | P15 | I | EDI | Push-pull | EEPROM data input. |
| 2 | P16 | O | EDO | Buffer | EEPROM data output. |
| 3 | P17 | O | ECLK | Buffer | EEPROM clock output. |
| 4 | AVss | | AVss | | |
| 5 | P130 | O | ECS | Push-pull | EEPROM chip select output. |
| 6 | P131 | O | REQC | Push-pull | Changer request output for 5-wire communication. |
| 7 | AVref1 | | AVref1 | | D/A converter reference voltage input |
| 8 | P70 | I | SDI | Push-pull | Data input from servo IC. |
| 9 | P71 | O | SDO | Buffer | Data output to servo IC. |
| 10 | P72 | O | SCK | Push-pull | Clock output to servo IC. |
| 11 | P20 | O | | Push-pull | Not used (open). |
| 12 | P21 | O | | Push-pull | Not used (open). |
| 13 | P22 | O | | Push-pull | Not used (open). |
| 14 | P23 | O | DGCON | Push-pull | Digital output control (not used) |
| 15 | P24 | O | AMUTE | Push-pull | Audio muting output. |
| 16 | P25 | I | DATAH | Schmitt trigger | H/U data input for 5-wire communication. |
| 17 | P26 | O | DATAC | Push-pull | Changer data output for 5-wire communication. |
| 18 | P27 | O | CHCLK | Push-pull | Changer clock output for 5-wire communication. |
| 19 | P40 | O | CHSEL | Push-pull | Changer 1/2 switching. |
| 20 | P41 | O | TSTB | Push-pull | Test mode strobe output. |
| 21 | P42 | O | TCLK | Push-pull | Test mode clock output. |
| 22 | P43 | O | TDATA | Push-pull | Test mode data output. |
| 23 | P44 | O | 8/7V | Push-pull | |
| 24 | P45 | O | | Push-pull | Not used. |
| 25 | P46 | O | | Push-pull | Not used. |
| 26 | P47 | O | | Push-pull | Not used. |
| 27 | P50 | I | ARM_SW | Buffer | Arm SW input. |
| 28 | P51 | O | TM4 | Push-pull | 4x-speed mode control output (not used). |
| 29 | P52 | O | TM2 | Push-pull | 2x-speed mode control output (not used). |
| 30 | P53 | O | XOFF | Push-pull | Servo IC oscillation OFF control output. |
| 31 | P54 | O | CHCONO | Push-pull | CHCON output to stack changer. |
| 32 | P55 | O | STB | Push-pull | Strobe output to servo IC. |
| 33 | Vss | | Vss | | Ground potential. |
| 34 | P56 | O | A0 | Push-pull | A0 output to servo IC. |
| 35 | P57 | O | RST | Push-pull | Reset output to servo IC. |
| 36 | P60 | I | ADJSEL | Buffer | Servo automatic adjustment invalidation selection terminal (for use in testing). |
| 37 | P61 | I | LOCK | Buffer | Spindle servo lock detection. |
| 38 | P62 | I | RFOK | Buffer | RF OK. |
| 39 | P63 | I | TBCI | Buffer | Tracking filter bank switching input. |
| 40 | P64 | O | TBCO | Push-pull | Tracking filter bank switching output. |
| 41 | P65 | O | LAON | Push-pull | Laser ON. |
| 42 | P66 | I | LIMSW | Push-pull | Limit switch input. |
| 43 | P67 | I | 8/12SW | Push-pull | 8 cm/12 cm judgment switch (not used). |

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Terminal connection

| Pin No. | Pin Name | I/O | Name | Pin Type | Function |
|---------|----------|-----|---------|-----------------|--|
| 44 | P30 | I | LEDSW | Push-pull | Loading end switch input. |
| 45 | P31 | O | SP/LO+ | Push-pull | Spindle/loading motor output +. |
| 46 | P32 | O | SP/LO- | Push-pull | Spindle/loading motor output -. |
| 47 | P33 | O | DMUTE | Push-pull | Driver muting. |
| 48 | P34 | O | ELV+ | Push-pull | Up-down motor output +. |
| 49 | P35 | O | ELV- | Push-pull | Up-down motor output -. |
| 50 | P36 | O | CH_MUTE | Push-pull | Changer muting output. |
| 51 | P37 | O | PON | Push-pull | P-ON output. |
| 52 | P120 | I | TYPE0 | Buffer | Test mode input 0. |
| 53 | P121 | I | TYPE1 | Buffer | Test mode input 1. |
| 54 | P122 | I | TYPE2 | Buffer | Test mode input 2. |
| 55 | P123 | I | TYPE3 | Buffer | Test mode input 3. |
| 56 | P124 | O | SLNSA | Push-pull | Sled dead sector invalidation setting (for testing). |
| 57 | P125 | I | COMSEL1 | Buffer | u-COM destination type terminal 1. |
| 58 | P126 | I | COMSEL2 | Buffer | u-COM destination type terminal 2. |
| 59 | P127 | I | ELVADJ | Buffer | Up-down position adjustment mode terminal. |
| 60 | RESET | | RESET | | |
| 61 | P00 | I | SBSY | Schmitt trigger | Subcode Q input timing detection input. |
| 62 | P01 | I | MGSW | Schmitt trigger | Magazine switch input. |
| 63 | P02 | I | EJSW | Schmitt trigger | Eject switch input. |
| 64 | P03 | I | REQH | Push-pull | REQH input. |
| 65 | P04 | I | REQC2 | Push-pull | CH2 REQC input. |
| 66 | P05 | I | CH_CON1 | Push-pull | CH1 control input from H/U. |
| 67 | P06 | I | BU_DET | Push-pull | B-U detection. |
| 68 | Vdd | | Vdd | | Positive power supply. |
| 69 | X2 | | X2 | | Main clock (4.19 MHz) connection terminal 2. |
| 70 | X1 | | X1 | | Main clock (4.19 MHz) connection terminal 1. |
| 71 | IC | | IC | | Internally connected. |
| 72 | XT2 | | XT2 | | |
| 73 | XT1 | I | CH_CON2 | | CH2 control input from H/U. (Stack changer) |
| 74 | AVdd | | AVdd | | Analog power supply of A/D converter. |
| 75 | AVref0 | | AVref0 | | Reference input voltage of A/D converter. |
| 76 | P10 | I | KEY | A/D converter | Key input terminal (for test mode). |
| 77 | P11 | I | HOT | A/D converter | High temperature detection terminal. |
| 78 | P12 | I | LPS | A/D converter | Linear position sensor. |
| 79 | P13 | O | | A/D converter | |
| 80 | P14 | O | LPSCO | A/D converterL | PS power control. |

MICROCOMPUTER'S TERMINAL DESCRIPTION

TEST Modes

E-88 test mode

●How to enter

While holding the magazine eject SW, reset the unit and keep on holding the eject SW for more second to enter the E-88 mode.

(Note) In the E-88 mode, the initial position detection operation at the time of reset start is not performed.

●Manual operation functions

The E-88 display appears when the H/U is set to the changer mode.

In this condition, the changer mechanism can be operated manually using the track search up/down and disc search up/down keys.

| | |
|------------------------|---|
| Track search Up key: | Operates the spindle/loading motor in the direction for pulling the disc tray into the mechanism deck (disc loading direction). |
| Track search Down key: | Operates the spindle/loading motor in the direction for returning the disc tray into the magazine (disc ejection direction). |
| Disc search Up key: | Operates the ELV motor in the direction for moving the mechanism deck upward. |
| Disc search Down key: | Operates the ELV motor in the direction for moving the mechanism deck downward. |

●Position adjustment function

This function writes the mechanism position adjustment values in the EEPROM in the E-88 mode.

Adjustment procedure

1. With the mechanism in the magazine ejection condition, move the mechanism manually up and down to set the mechanism to the reference position.
2. Pressing the REP key of the H/U starts the judgment of the mechanism position and the distinction whether the changer is a 6-disc or 10-disc changer.
If the mechanism position is extremely deviated from the reference position, the processing is aborted immediately.
3. The offset from the reference position is calculated and the 6/10 data and offset values are written in the EEPROM.
4. Data is read from the EEPROM to judge whether it has been written normally.
When it is judged that the write operation has completed normally, the mechanism deck moves to the magazine ejection standby position.
When it is judged that the write operation was abnormal, the mechanism performs no operation.

(Note) Mechanism reference position

6-disc mechanism: Position of the 3rd stage

10-disc mechanism: Position of the 6th stage

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Mechanism Ass'y Disassembly Procedure

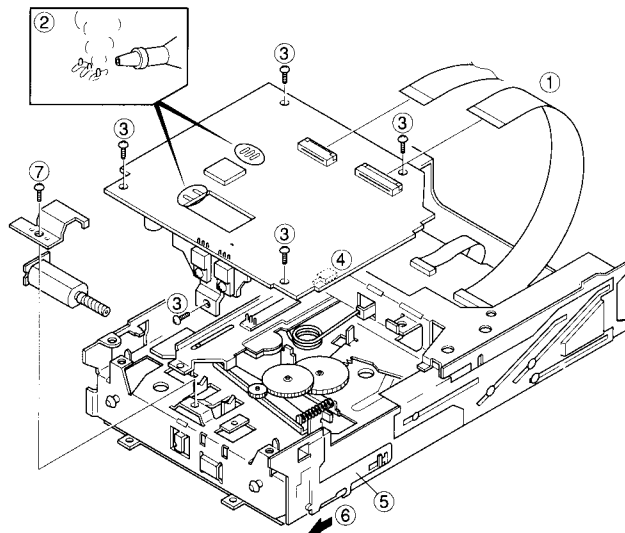
Overall

- Remove the 2 flexible cables. (①)
- Remove solder from 5 positions and free the Main board. (②)
- Remove the 5 screws (③) and take out the Main board.

(Precaution in assembly)

When attaching the Main board, push the SW arm (⑤) outward so that the SW (④) does not hit the board. (⑥)

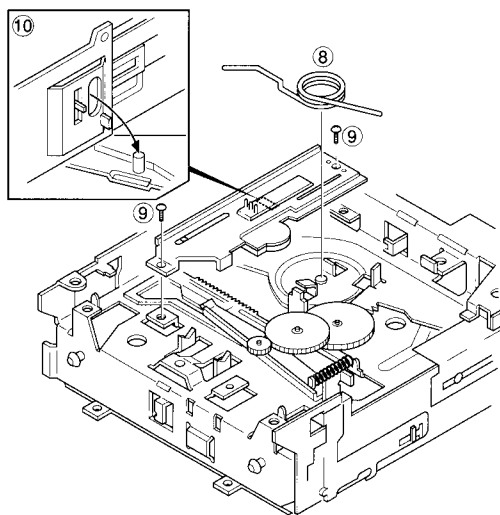
- Remove the screw (⑦) then remove the U-D (Up-Down) motor mounting hardware and the motor itself.



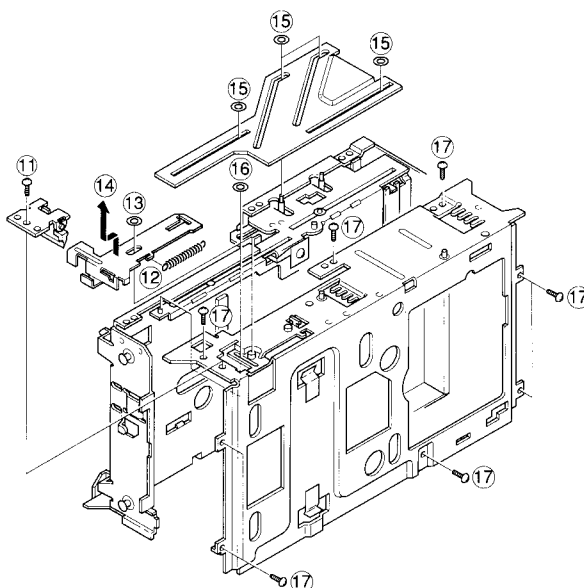
- Remove the U-D spring. (⑧)
- Remove the 2 screws (⑨) then remove the LPS ass'y.

(Precaution in assembly)

Attach the LPS ass'y by aligning and inserting the pin on the joint arm with the hollow section on the LPS ass'y. (⑩)

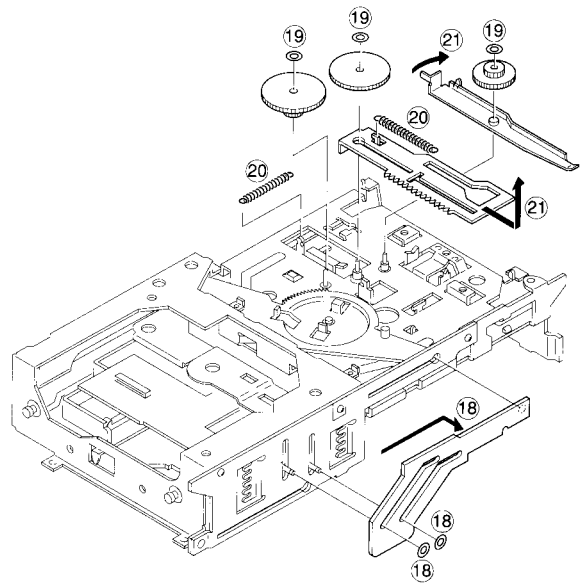


- Remove the screw (⑪) then remove the tray lock ass'y.
- Remove the spring (⑫) and the nylon washer (⑬) from the SW arm.
- Remove the hardware by sliding it while lifting one side. (⑭)
- Remove the 4 nylon washers (⑮) and remove the B (Back) slider.
- Remove the nylon washer (⑯) from the MD (Mechanism Deck).
- Remove the 8 screws (⑰) then remove chassis U (Up).



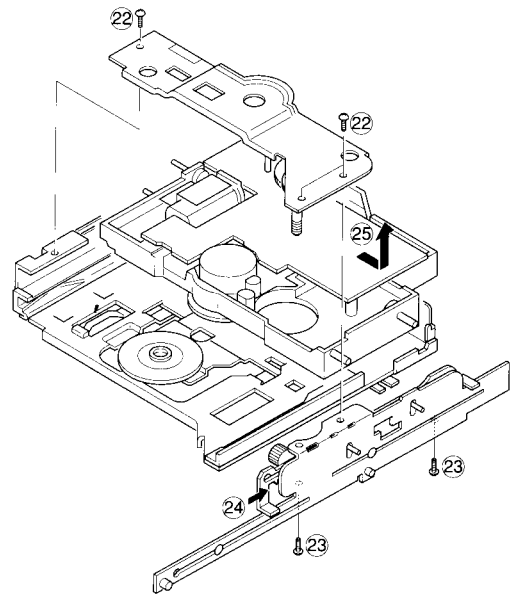
Mechanism Ass'y Disassembly Procedure

- Remove the 2 nylon washers (18).
- Remove the F (Front) slider after moving it to the left end. (18)
- Remove the 3 nylon washers and the 3 gears. (19)
- Remove the 2 springs (20).
- Remove the 2 levers by moving each of them to the position where it can be taken out. (21)



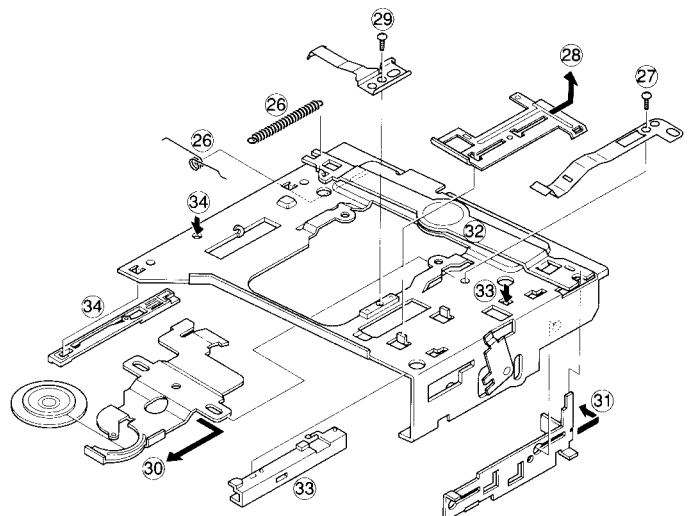
Mechanism deck

- Remove the 3 screws (22) then remove the clutch gear ass'y.
- Remove the 2 screws (23) from the rack gear ass'y.
- Move the rack gear to the extremity and remove the rack gear ass'y. (24)
- Remove the pickup ass'y. (25)



Clamper ass'y

- Remove the 2 springs (26).
- Remove the screw (27) then remove the cancel plate spring.
- Remove the cancel slider by moving it to the right end while lifting it slightly. (28)
- Remove the screw (29) and remove the clamper holder plate spring, clamper and clamper lever. (30)
- Remove cam F. (31)
- Remove the MD joint arm by rotating it counterclockwise while lifting it slightly. (32)
- Remove plastic guide A by moving it toward the left while lifting its stopper section slightly. (33)
- Remove plastic guide B by moving it toward the left while lifting its stopper section slightly. (34)



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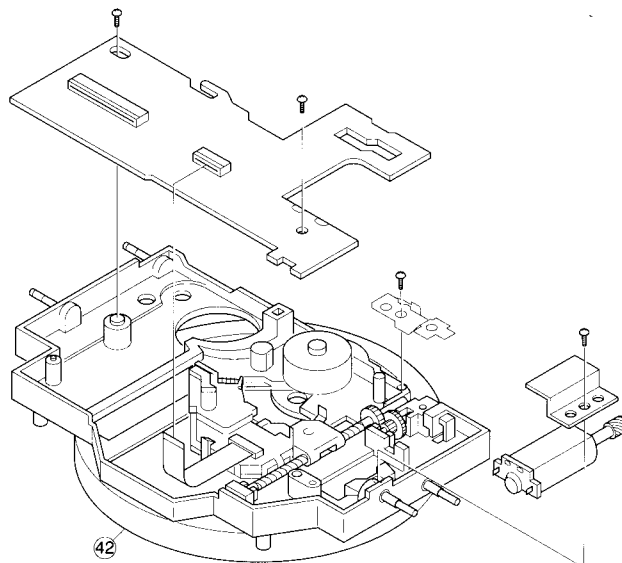
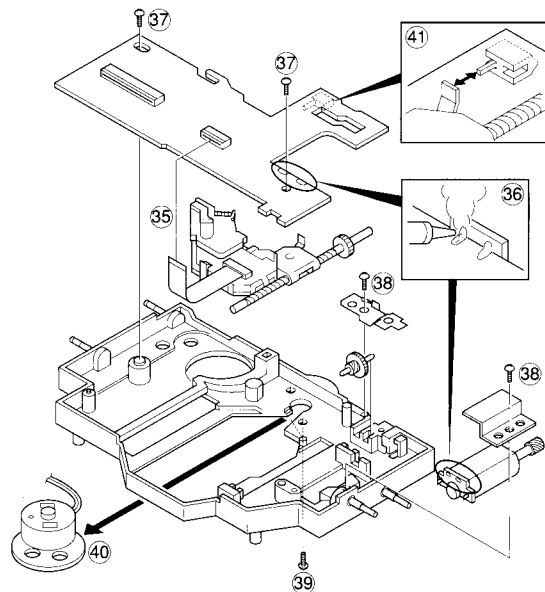
Mechanism Ass'y Disassembly Procedure

Pickup ass'y

- Remove the pickup flexible cable. (35)
- Remove solder from 2 positions. (36)
- Remove the 2 screws (37) then remove the PC board.
- Remove the 2 screws (38) then remove the motor, retaining hardware and pickup.
- Remove the 2 screws (39) then remove the motor. (40)

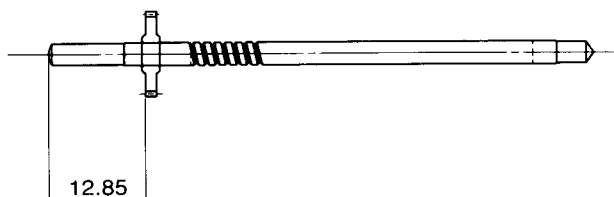
(Precautions in assembly)

- When attaching the motor, place it so that the lead wire side comes outside and be careful in the styling of the lead wire so that it does not contact the gear.
- Before attaching the PC board, check that the pickup is not located at the innermost position so that the limit SW does not hit it. (41)
- When detaching or attaching the hardware and PC board retaining screws, place the ass'y on a loop of plastic tape reel, etc. (42) so that the turntable does not contact the work bench surface.

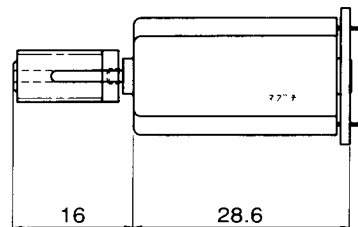


Gear attaching position

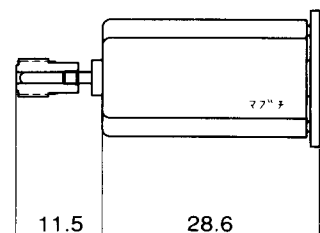
- The gears of the U-D motor, sled motor and screw gear ass'y should be attached as shown below. Be sure to observe the lengths indicated below when push-fitting these parts.



Screw gear ass'y



U-D motor

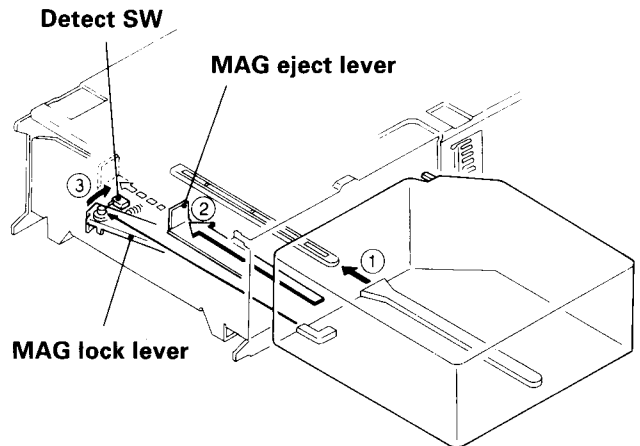


Sled motor

CD Changer Mechanism Operation Description

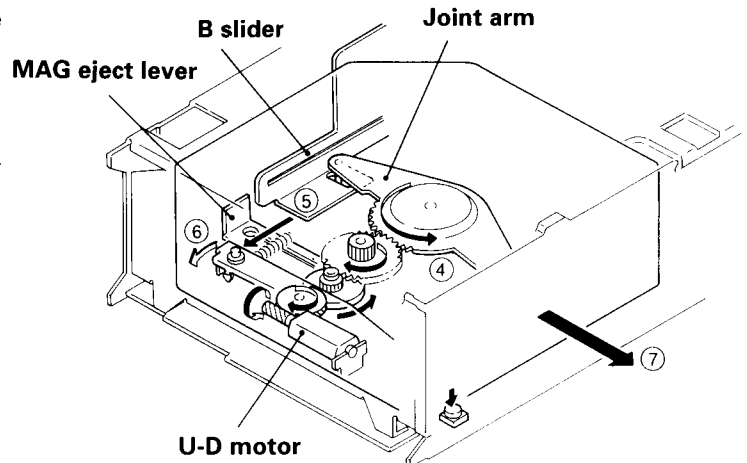
Magazine insertion

- Insert the magazine into the mechanism (①). The magazine moves toward the rear of the unit while pushing the MAG eject lever (②). When the magazine reaches the end position, the MAG lock lever rotates (③) to lock the magazine.
- The rotation of the MAG lock lever turns the magazine detect switch ON so the magazine insertion is recognized.



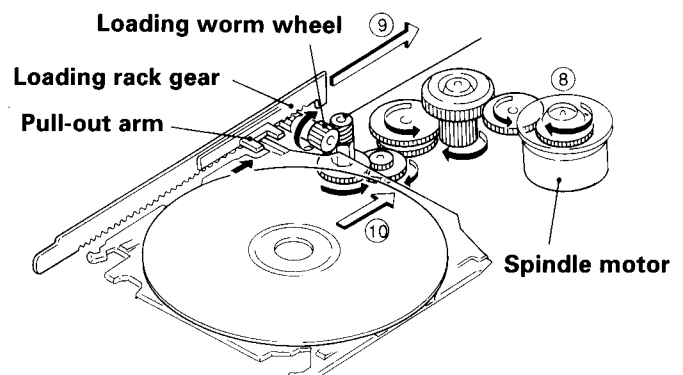
Magazine ejection

- When the magazine eject button is pressed, the magazine tray returns in the magazine, and the joint arm is rotated driven by the U-D motor (④). Then the B (Back) slider which is interlocked with the joint arm moves in the direction of the arrow (⑤) and pushes the MAG lock lever (⑥).
- When the MAG lock lever is pushed, the magazine is unlocked then ejected by the MAG eject lever and MAG eject spring (⑦).
(During the above operation, the resistance of the linear position sensor controls the operating positions by voltage.)



Disc loading

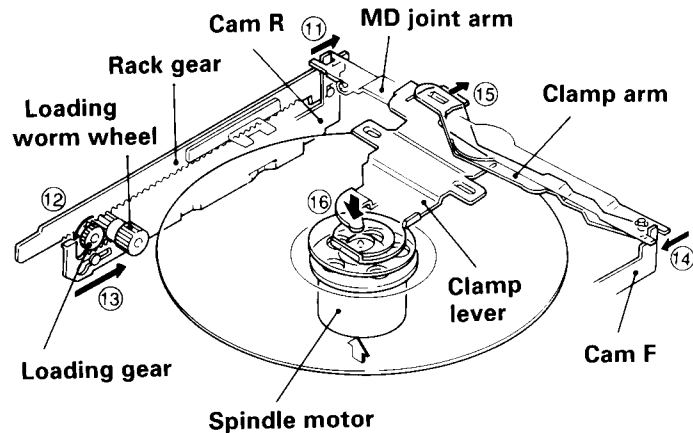
- When the disc loading command is received, the spindle motor starts rotation (⑧). This rotation is transmitted through the worm gear and worm wheel and activates the loading rack gear (⑨).
- The rack gear has a pull-out arm, which pulls the magazine out of the tray (⑩).



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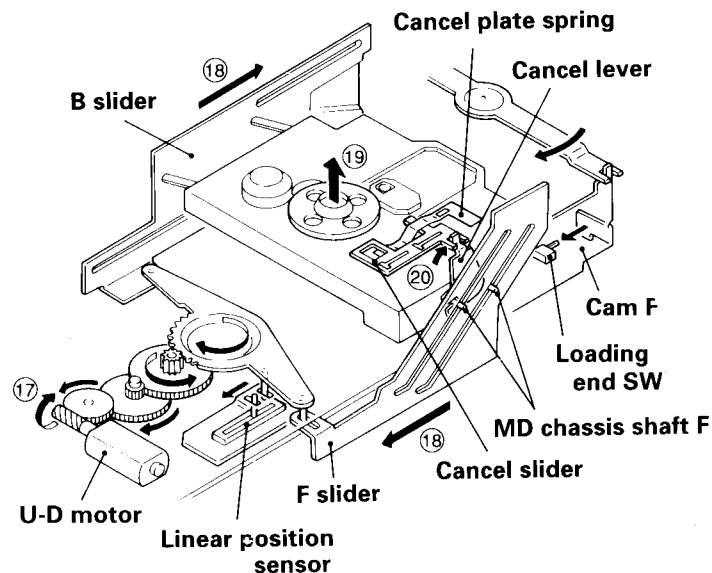
CD Changer Mechanism Operation Description

- When the rack gear approaches the end, it kicks cam R (11). This causes cam R to be engaged with the loading gear (12) so cam R slides together with the rack gear (13).
- As cam R is joined with the MD (Mechanism Deck) joint arm and cam F, they also start to move similarly (14).
- As the MD joint arm is joined with the clamp arm, it starts to rotate (15). This rotation moves the clamp lever down and initiates the chucking ready state (16).
- When cam F which is joined with cam R pushes the loading end SW, loading is completed and the spindle motor is stopped.



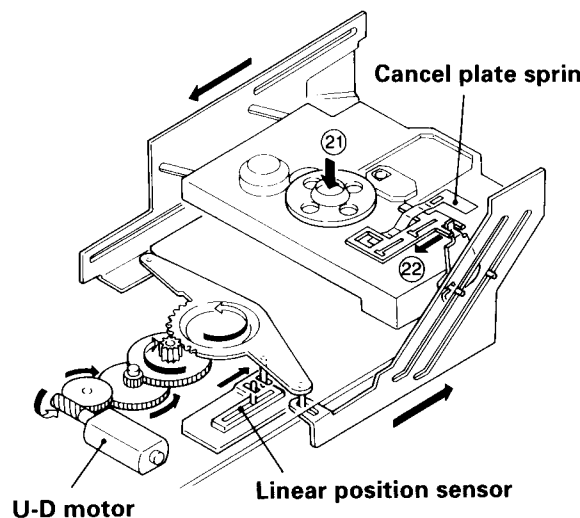
Disc chucking

- At the same time as the loading end SW turns ON, the lock of the MD chassis shown in the illustration is unlocked by cam R and cam F.
- MD chassis shafts F and R are joined with the F (Front) slider and B (Back) slider. After completion of loading, the U-D motor starts the drive (17) and moves the F and B sliders toward the chucking direction (18). This causes the MD chassis to move upward for chucking (19).
- During the above operation, the cancel lever joined with MD chassis shaft F activates the cancel slider (20) and lifts the cancel plate spring.
(The cancel plate spring is provided to push the disc against the tray so that the disc does not drop during loading.)
- The position of the upward movement of the MD chassis is detected by the linear position sensor shown in the illustration.



Unchucking

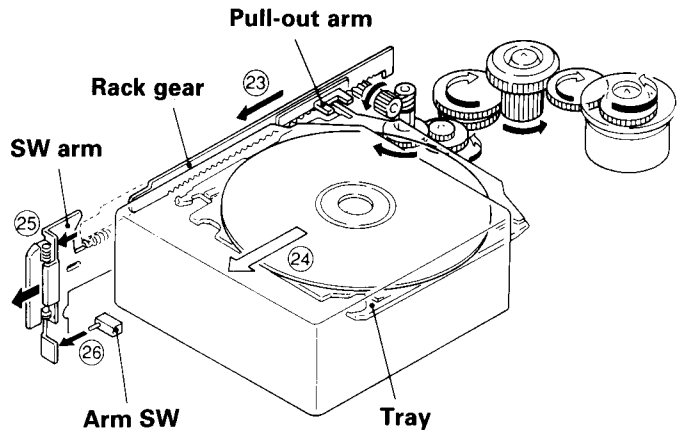
- When the unchucking command is received, the U-D motor starts the drive to move the F and B sliders and move the MD chassis downward (21).
- Unchucking completes when the MD chassis has moved down to the specified position. The cancel plate spring also moves in interlocking with the downward movement (22).
- The unchucking position is detected by the linear position sensor.



CD Changer Mechanism Operation Description

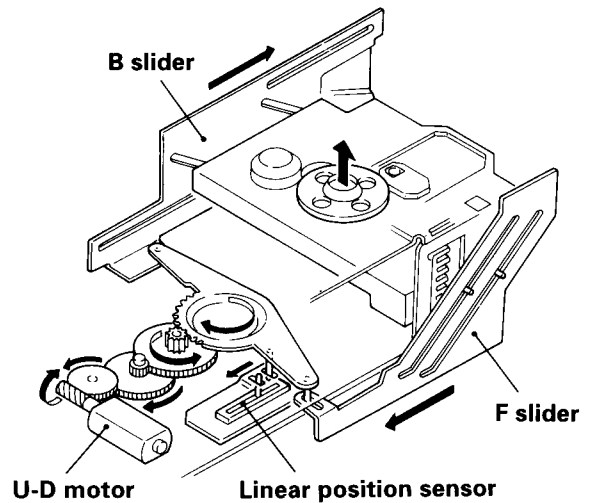
Disc ejection

- When unchucking has completed, cams F and R, the MD joint arm, clamp arm and rack gear move in the opposite directions to the directions during loading (23).
- The disc is moved into the magazine by the pull-out arm of the rack gear (24).
- When the tray including a disc comes inside the magazine, the extremity of the rack gear pushes the SW arm (25).
- The SW arm turns OFF the arm SW which detects the completion of ejection (26). Now the ejection has completed.



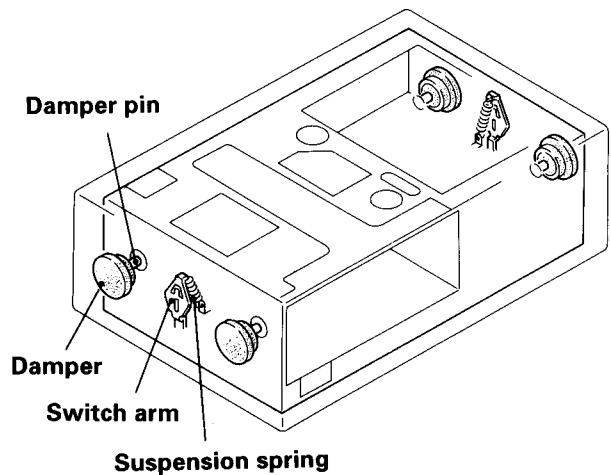
Stage detection (up/down movement)

- The stage containing the disc to be played is detected based on the value of the linear position sensor according to the up/down movement of MD that is caused by the operations of the F and B sliders under the U-D motor drive.



Mechanism floating

- The mechanism floating is provided as a vibration countermeasure and features the entire mechanism floating, which is different from the method adopted by the CHM-100 and 200 (previous KENWOOD mechanisms).
- The damper is inserted in the damper pin as shown below and fixed on the cabinet.
- The vertical, horizontal and 45-degree positioning can be switched by rotating the switch arm on the cabinet.
- The switch arm is connected with a suspension spring and the mechanism.

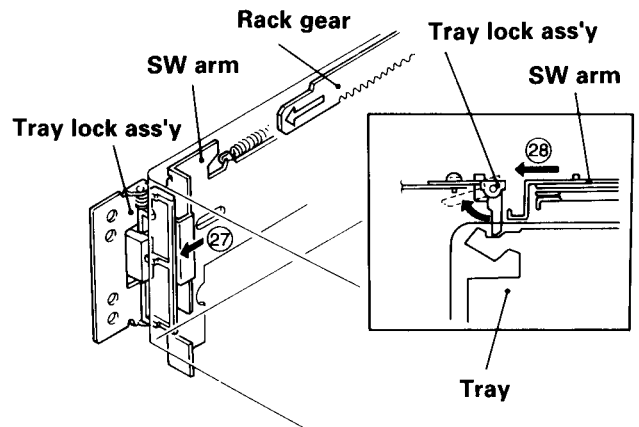


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CD Changer Mechanism Operation Description

Tray lock mechanism

- The tray lock ass'y shown in the illustration is used to prevent the jumping out of the magazine in case a shock is applied to the changer.
- The tray is locked by the SW arm which is interlocked with the rack gear operation (27).
- When the SW arm moves toward the loading direction, the arm of the lock ass'y rotates and locks the tray. The tray is unlocked when the SW arm moves toward the ejection direction (28).



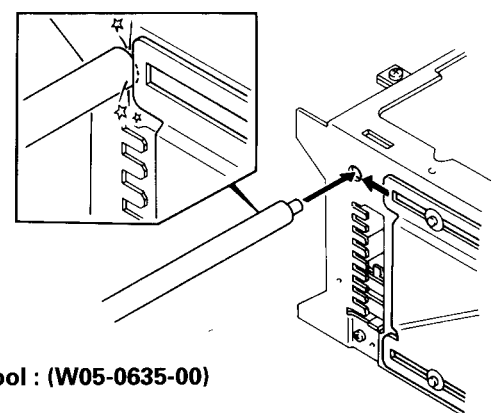
Initial adjustment of the linear position sensor (LPS)

- With the mechanism of this unit, all of the operations associated with the movements of the F and B sliders, such as the stage detection, chucking position and ejection position are detected by the LPS.
- When the mechanism is in the initial state, after it has been disassembled or after its PC board has been replaced, the initial position of the LPS should be adjusted to eliminate the LPS variance as well as the mechanism variance.
- With the magazine set to the specified stage, the value indicated by the LPS is read. the position is detected by considering the error between the read value and the designed value.
- The values obtained in the adjustment are stored in the E2PROM, and the judgment between the 10-disc changer and 6-disc changer is made.
- When the PC board is new (when nothing is written in the E2PROM), the head unit (H/U) display shows "E-77".

LPS initial position adjustment procedure

Connect the changer to the H/U. While holding the magazine eject button of the changer, press the reset button of the H/U and, in about 1 second, release the magazine eject button. Press the CD button of the H/U to enter the [E-88] mode. Move the mechanism deck to around the 1st stage by pressing the [DISC-] or [DISC+] button. Insert the adjustment tool into the tool hole on the changer mechanism. Then press the [DISC+] button to move the mechanism deck until the mechanism's slider hits the adjustment tool. When the motor locks (stops) press the [REPEAT] key of the H/U.

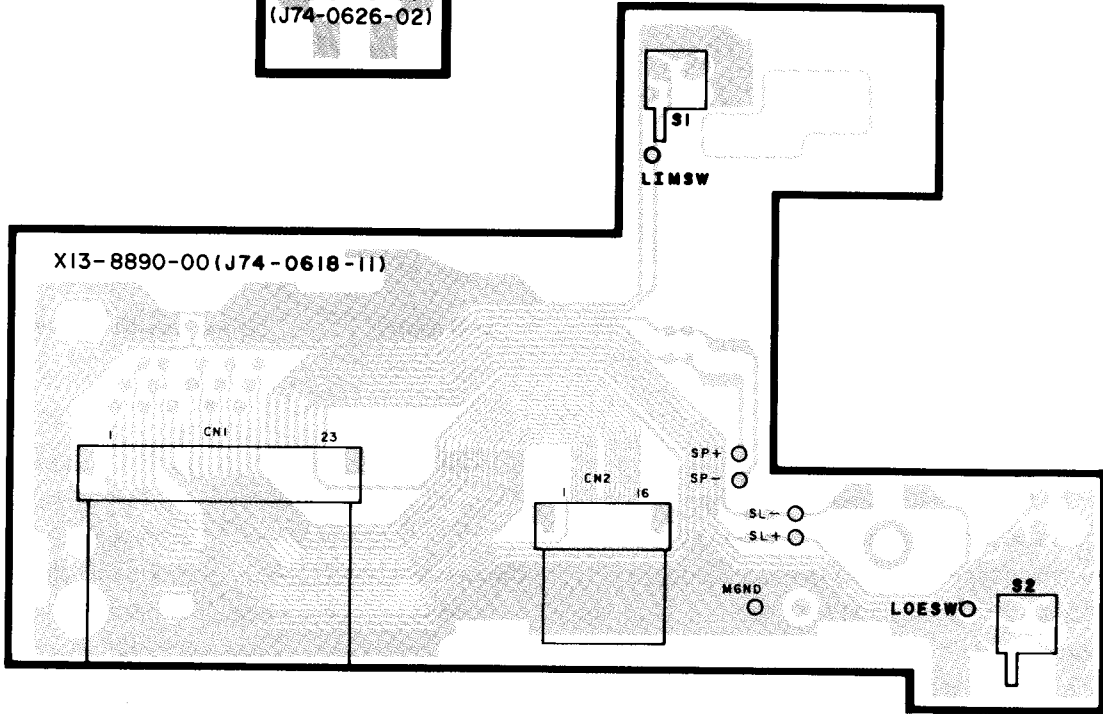
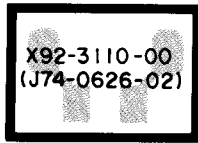
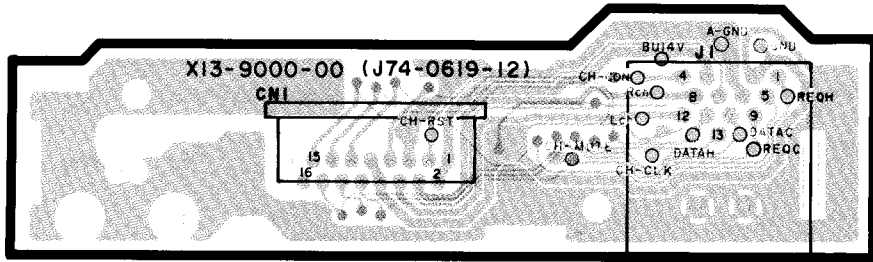
When the [REPEAT] key is pressed, the mechanism moves automatically to the 1st stage and the initial position adjustment completes. (The data is written in the E2PROM at this time.)



Tool : (W05-0635-00)

| | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Ref No. | IC1 | IC2 | IC3 | IC5 | IC6 | IC7 | IC8 | IC9 | IC10 | IC11 |
| Adress | 4E | 4D | 3C | 4C | 4B | 5A | 3B | 4A | 6D | 5C |

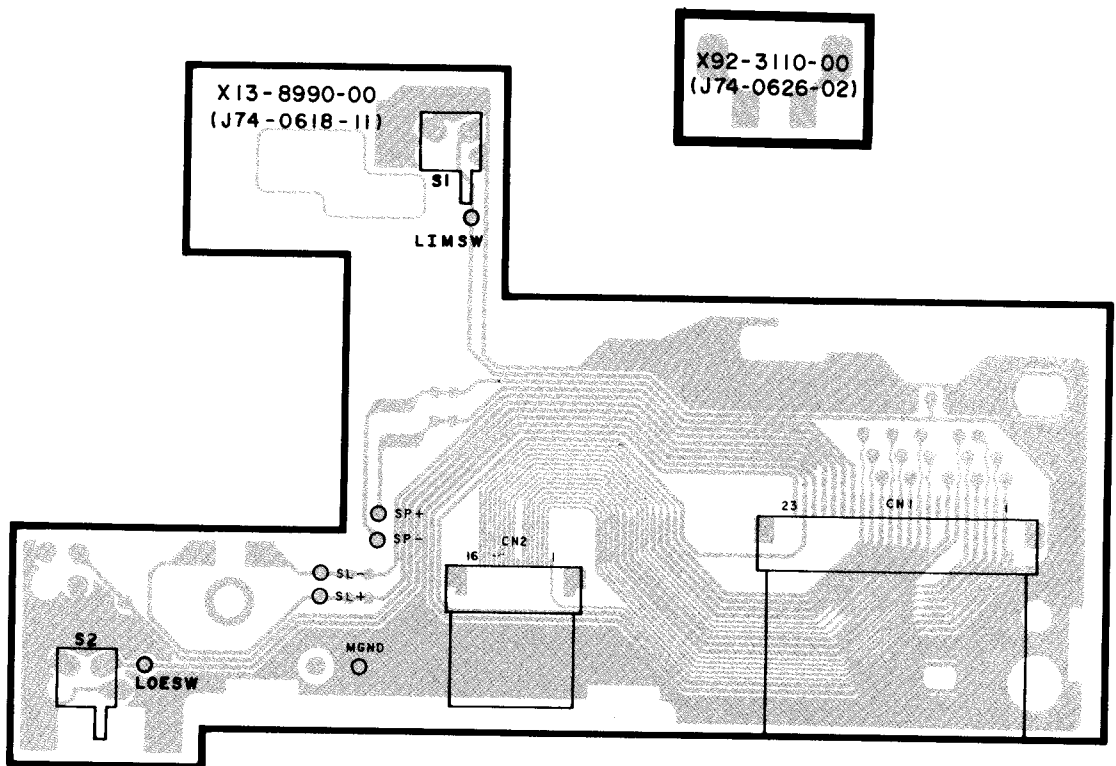
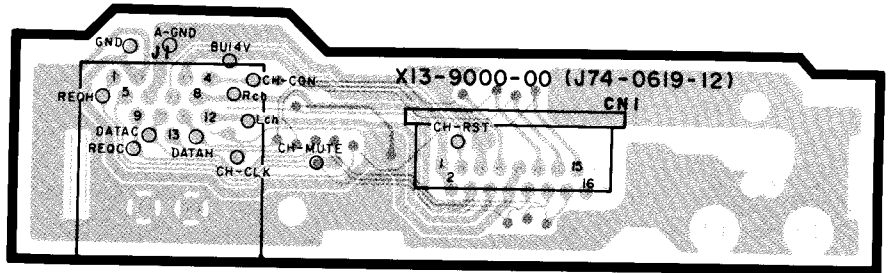
| | | | | | | | | | | | | | | | | | | | |
|---------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ref No. | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18 | Q19 |
| Adress | 3D | 3D | 3C | 3C | 3C | 2B | 5B | 5A | 5B | 5D | 4A | 5C | 5D | 5B | 6C | 6C | 6C | 6C | 6D |



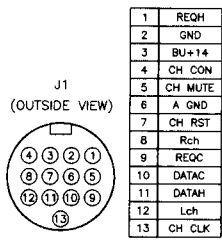
Refer to the schematic diagram for the values of resistors and capacitors.

| Ref No. | IC1 | IC2 | IC3 | IC5 | IC6 | IC7 | IC8 | IC9 | IC10 | IC11 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Adress | 3L | 4L | 3M | 4M | 4N | 5O | 3O | 4O | 6L | 4M |

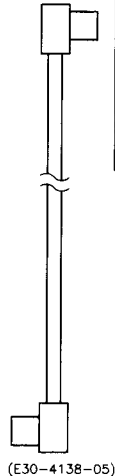
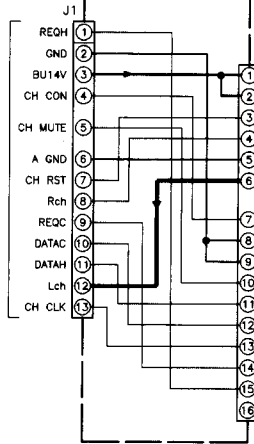
| Ref No. | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18 | Q19 |
|---------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Adress | 3L | 3L | 3M | 3M | 3N | 2N | 5N | 4O | 5N | 5L | 4O | 5M | 5L | 5N | 6M | 6M | 6M | 6M | 6M |



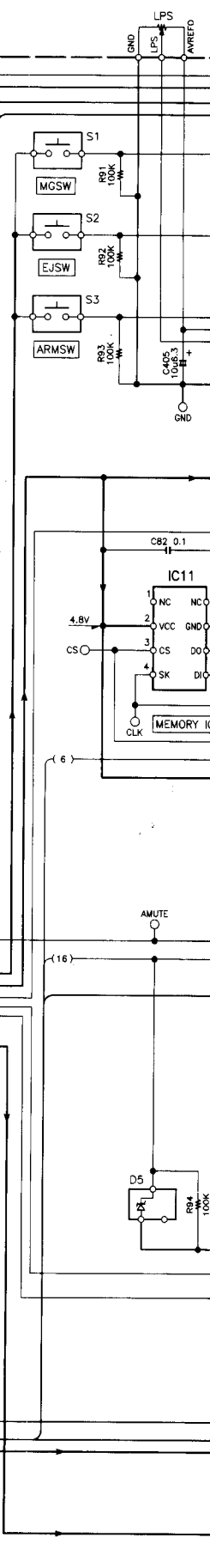
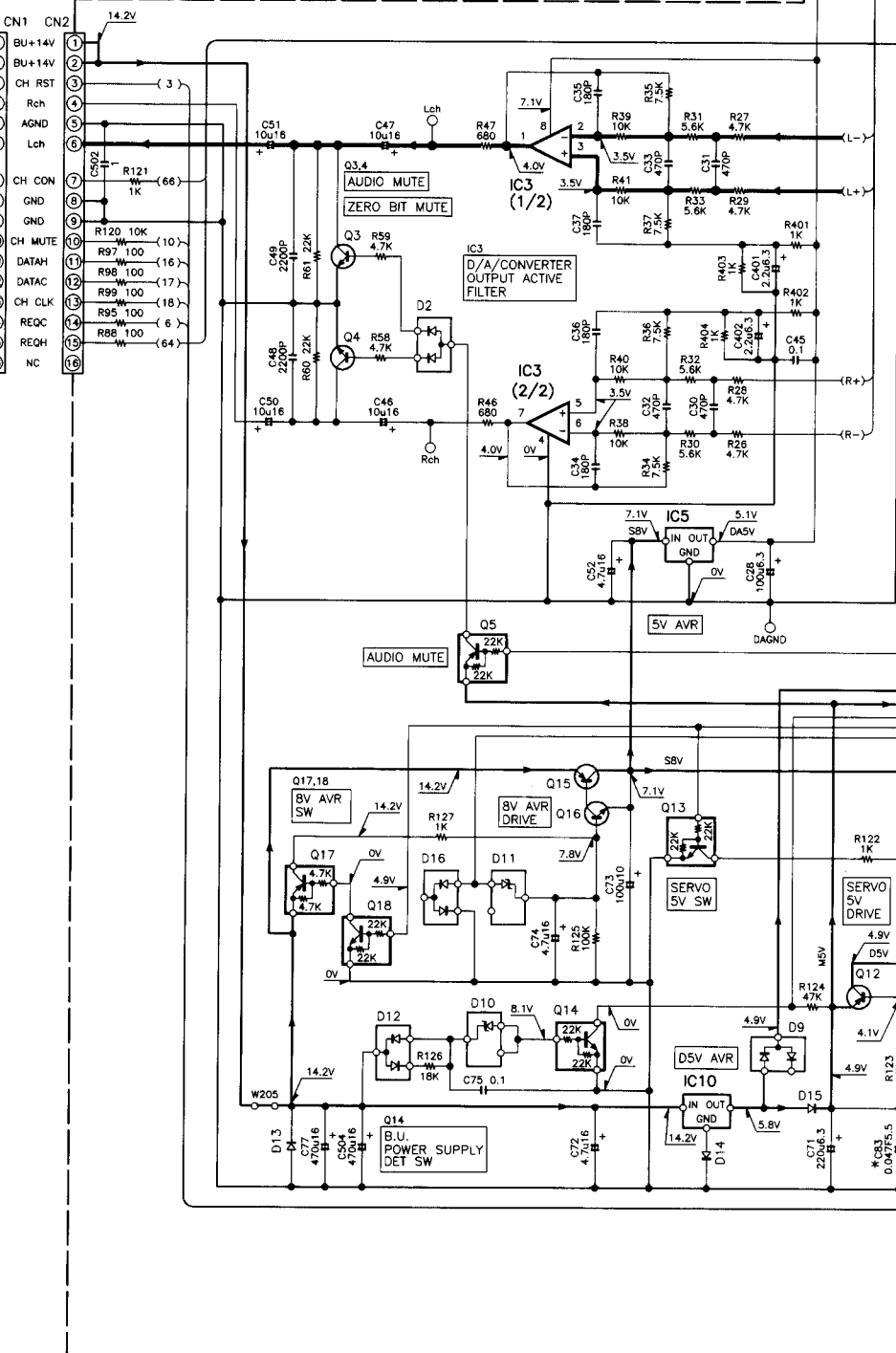
Refer to the schematic diagram for the values of resistors and capacitors.



(X13-9000-00)



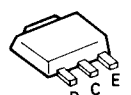
(X32-4260-00)



- DTA114EK
- DTA124EK
- DTA143EK
- DTC114YK
- DTC124EK
- 2SA1362
- 2SC2412K
- 2SD2114K



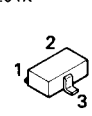
2SB1188



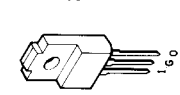
TA78L05F



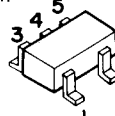
DA204K

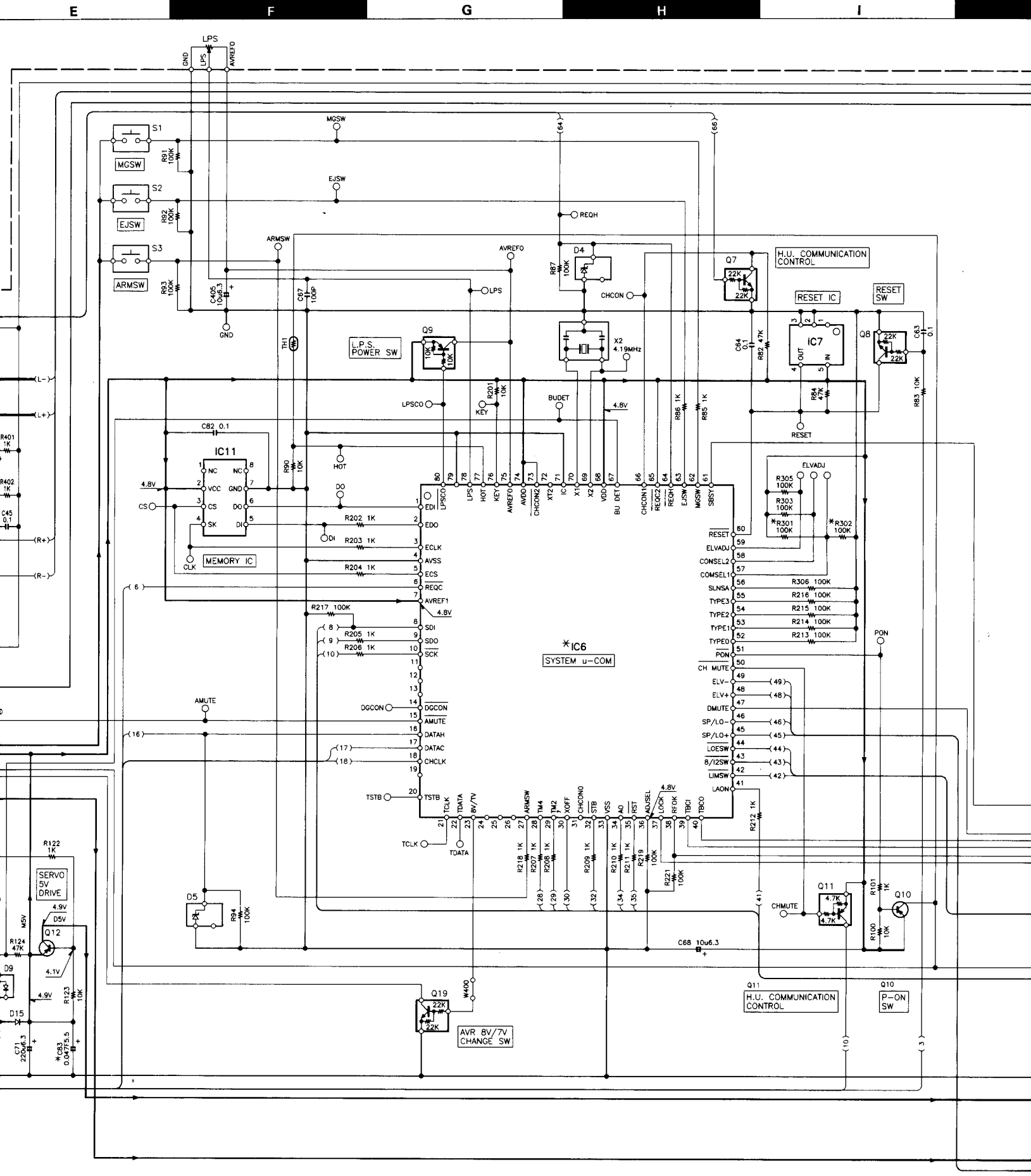


M5278D05



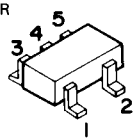
PST9137NR



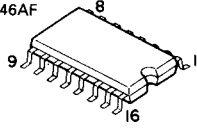


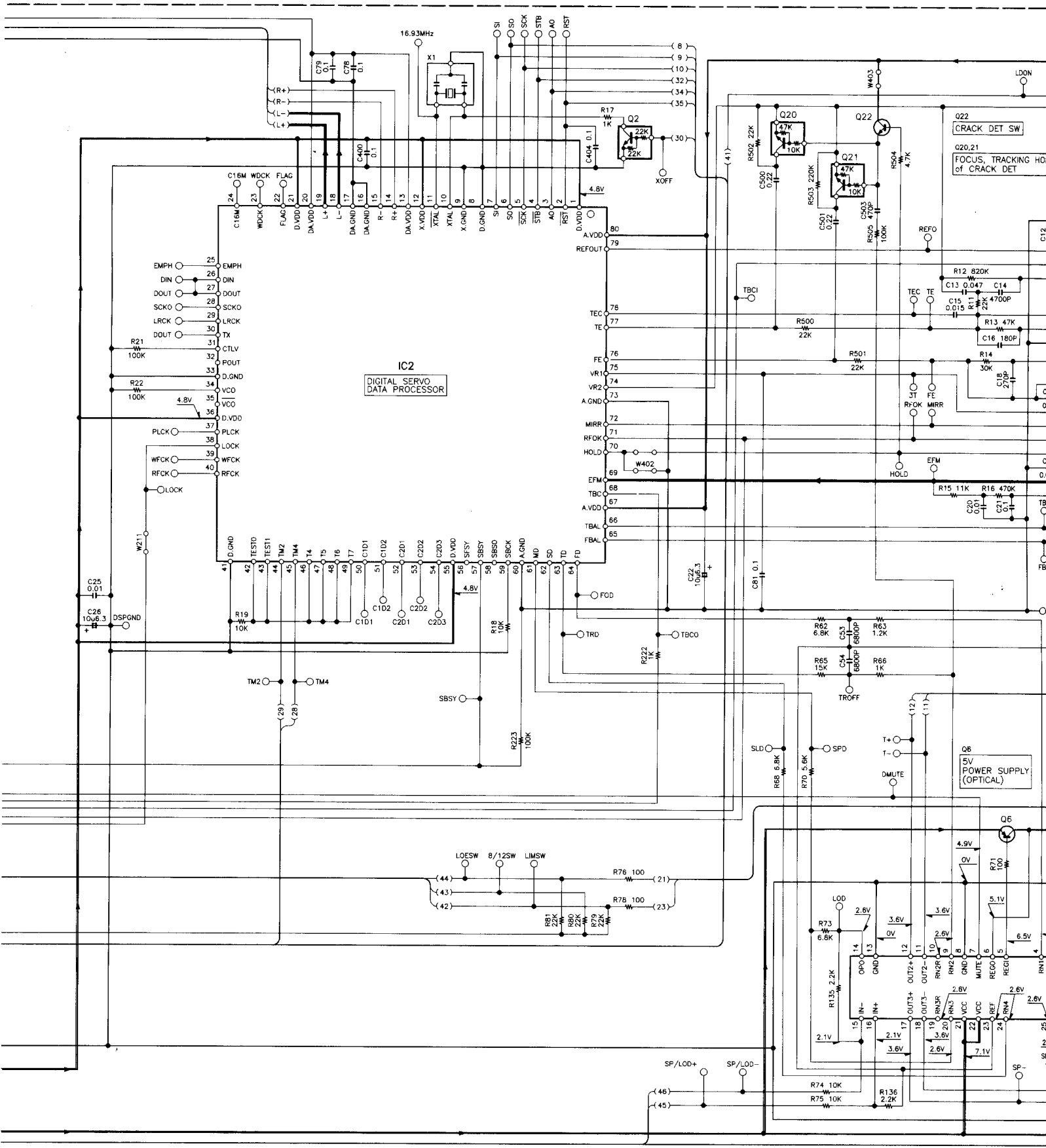
005

PST9137NR



BR93LC46AF

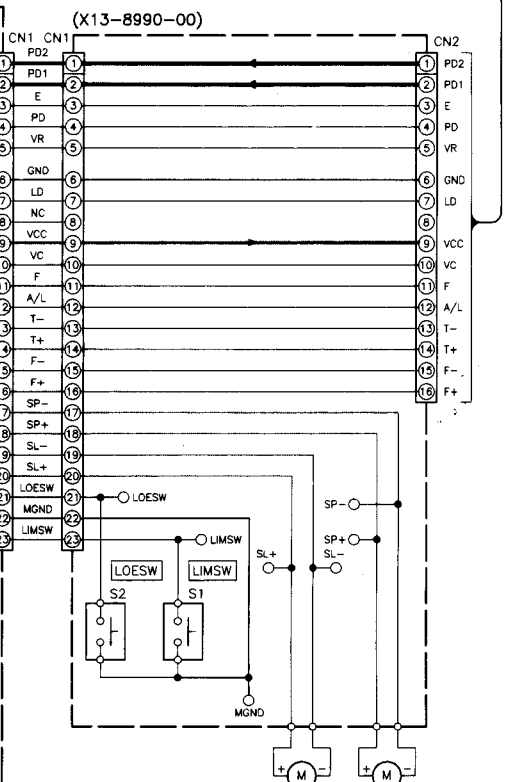
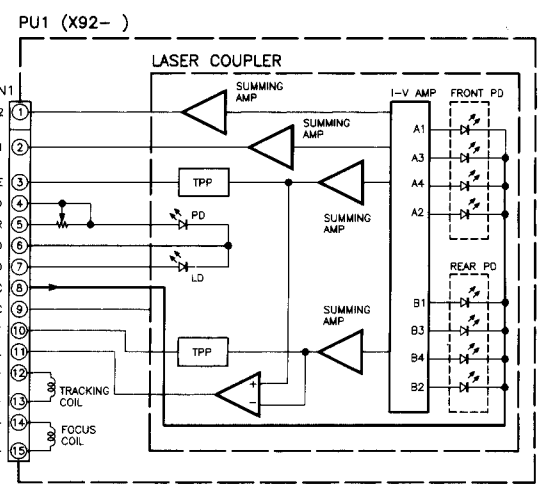
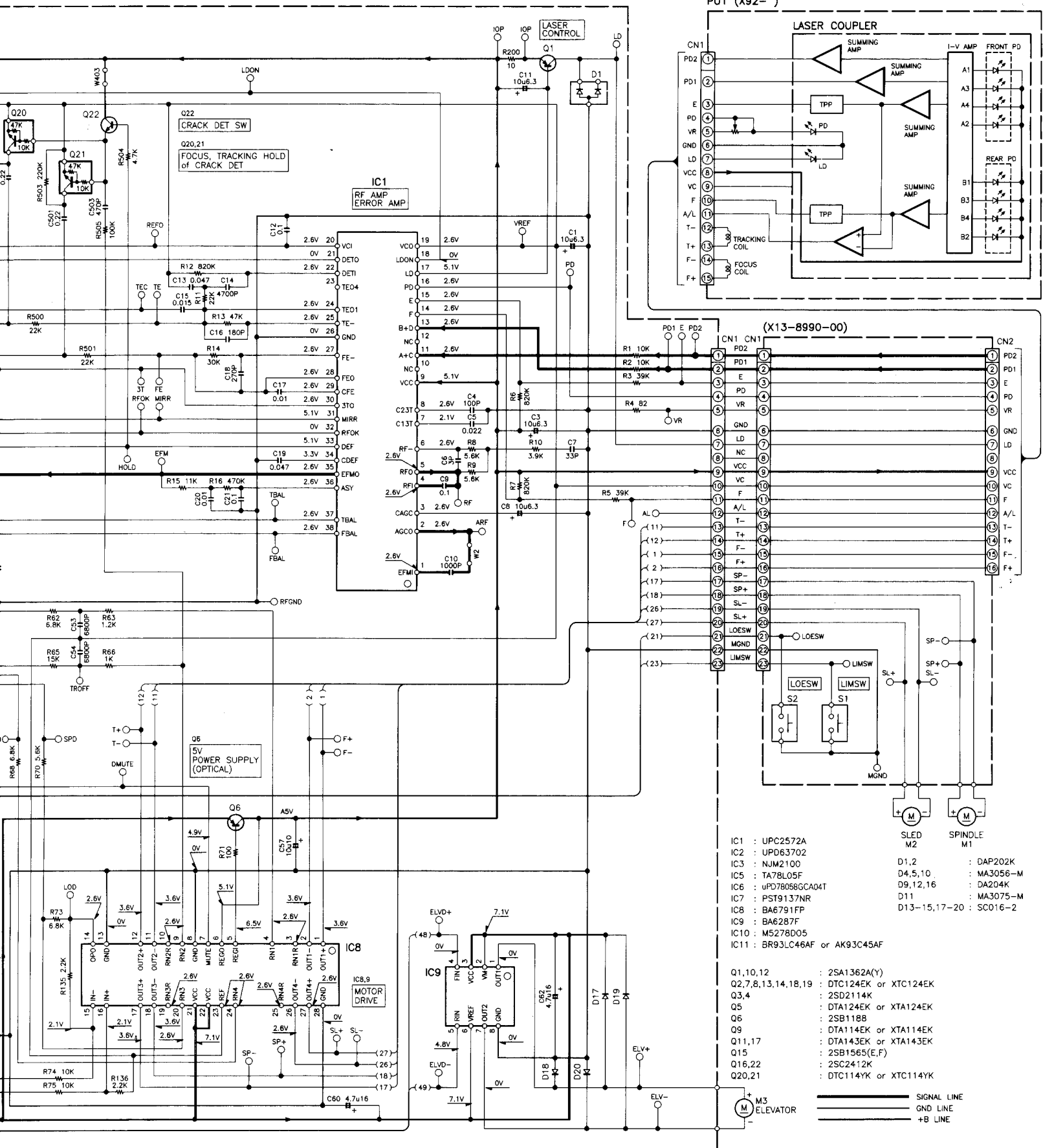




DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type

and rating fus... current or res... posed parts a... before the ap...



- IC1 : UPC2572A
- IC2 : UPD63702
- IC3 : NJM2100
- IC5 : TA78L05F
- IC6 : uPD78058GCA04T
- IC7 : PST9137NR
- IC8 : BA6791FP
- IC9 : BA6287F
- IC10 : M5278D05
- IC11 : BR93LC46AF or AK93C45AF
- Q1,10,12 : 2SA1362A(Y)
- Q2,7,8,13,14,18,19 : DTC124EK or XTC124EK
- Q3,4 : 2SD2114K
- Q5 : DTA124EK or XTA124EK
- Q6 : 2SB118B
- Q9 : DTA114EK or XTA114EK
- Q11,17 : DTA143EK or XTA143EK
- Q15 : 2SB1565(E,F)
- Q16,22 : 2SC2412K
- Q20,21 : DTC114YK or XTC114YK
- D1,2 : DAP202K
- D4,5,10 : MA3056-M
- D9,12,16 : DA204K
- D11 : MA3075-M
- D13-15,17-20 : SC016-2

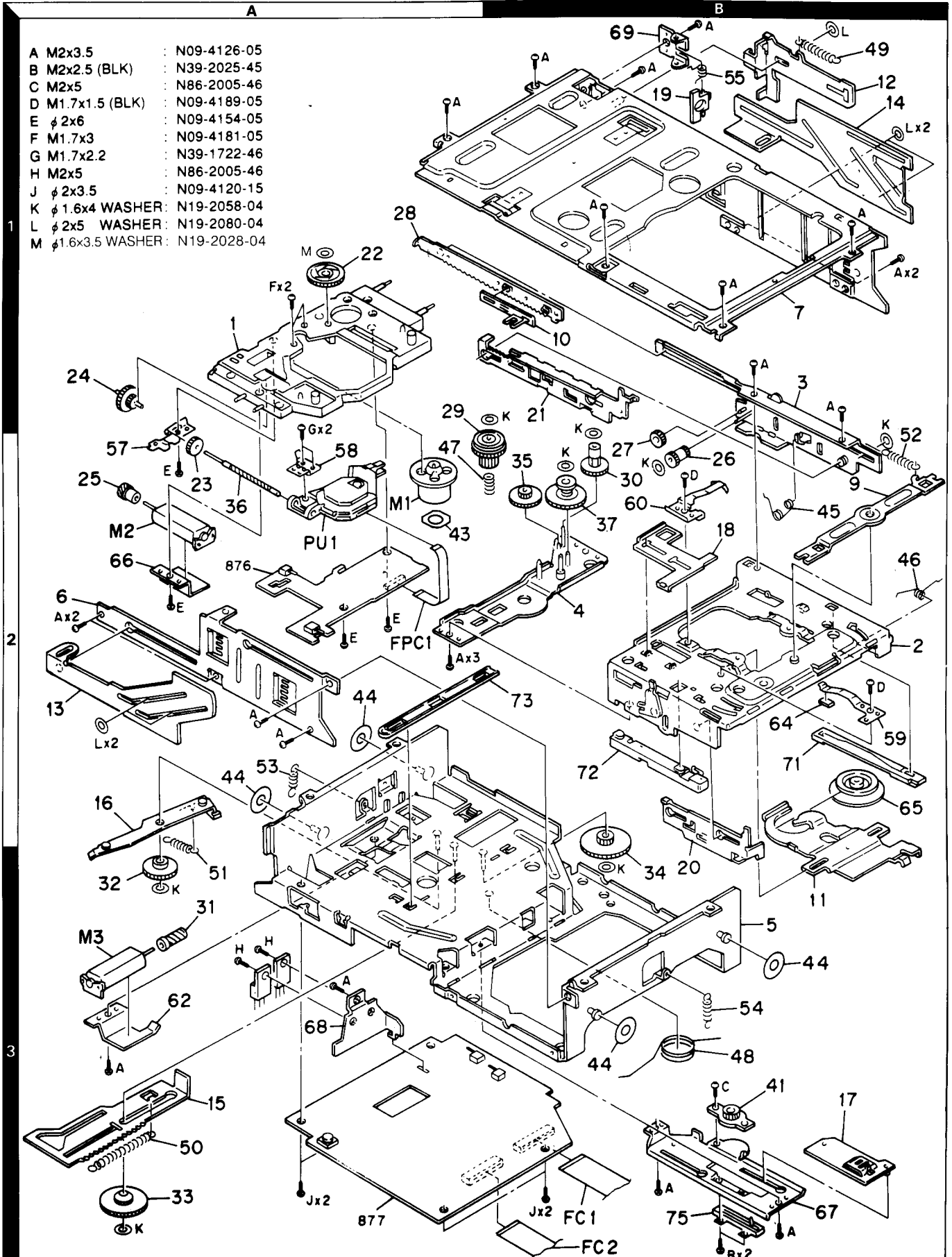


replace safety critical components with recommended parts (refer to critical components. For continuity, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



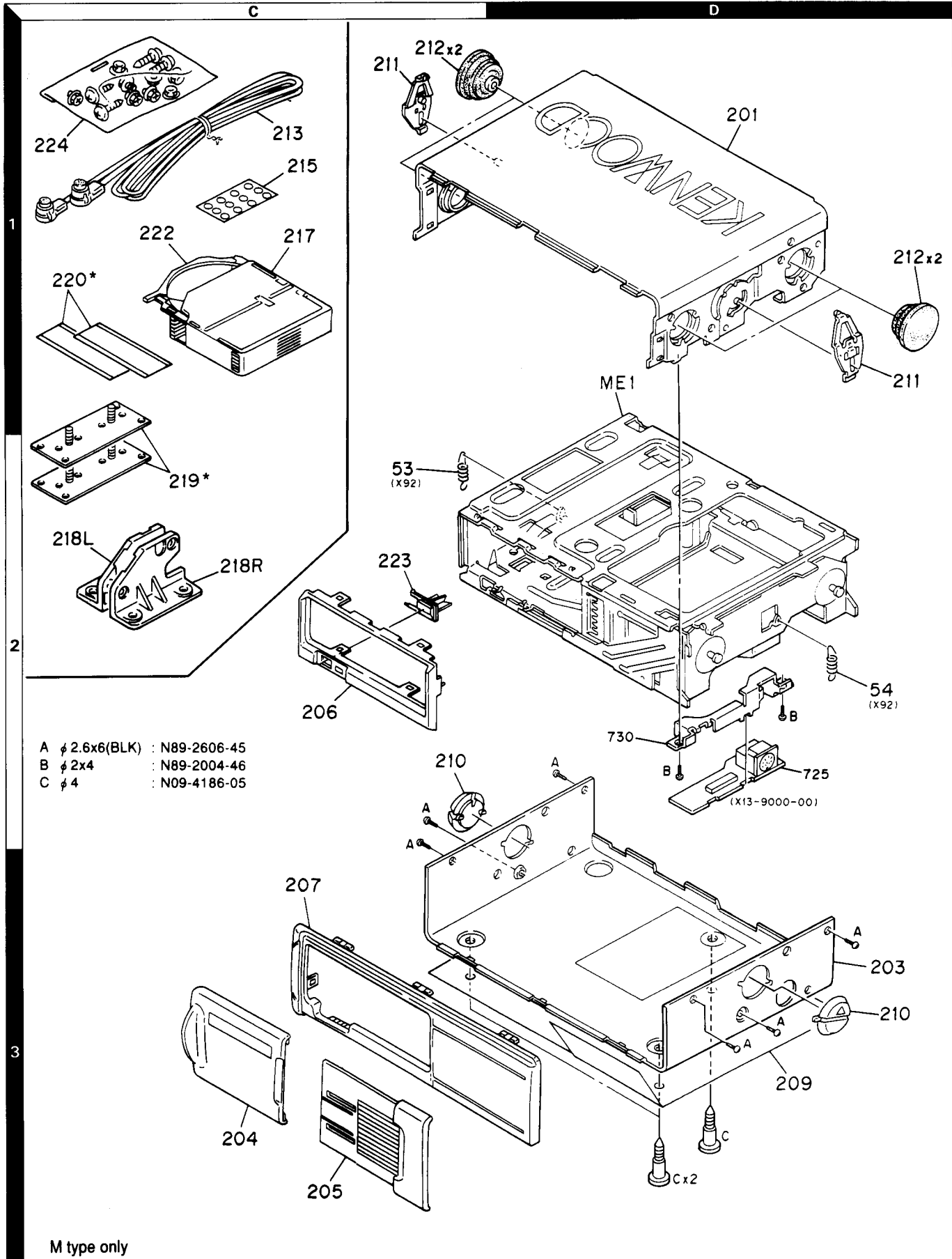
EXPLODED VIEW (MECHANISM)

- | | | | |
|---|------------------|---|-------------|
| A | M2x3.5 | : | N09-4126-05 |
| B | M2x2.5 (BLK) | : | N39-2025-45 |
| C | M2x5 | : | N86-2005-46 |
| D | M1.7x1.5 (BLK) | : | N09-4189-05 |
| E | φ 2x6 | : | N09-4154-05 |
| F | M1.7x3 | : | N09-4181-05 |
| G | M1.7x2.2 | : | N39-1722-46 |
| H | M2x5 | : | N86-2005-46 |
| J | φ 2x3.5 | : | N09-4120-15 |
| K | φ 1.6x4 WASHER | : | N19-2058-04 |
| L | φ 2x5 WASHER | : | N19-2080-04 |
| M | φ 1.6x3.5 WASHER | : | N19-2028-04 |



KDC-C461

EXPLODED VIEW (UNIT)



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|---------------------------------------|---------|-----------|-------------|-------------------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 |
| KDC-C461 | | | | | |
| 201 | 1D | | A01-2627-21 | METALLIC CABINET | KE1E2 |
| 201 | 1D | * | A01-2654-01 | METALLIC CABINET | M1 |
| 203 | 3D | | A10-4286-21 | CHASSIS | KE1E2 |
| 203 | 3D | * | A10-4367-01 | CHASSIS | M1 |
| 204 | 3C | * | A21-2393-02 | DRESSING PANEL | KE1E2 |
| 204 | 3C | * | A21-2399-02 | DRESSING PANEL | M1 |
| 205 | 3C | | A21-2358-22 | DRESSING PANEL | KE1E2 |
| 205 | 3C | * | A21-3504-02 | DRESSING PANEL | M1 |
| 206 | 2C | | A22-1289-22 | SUB PANEL | KE1E2 |
| 206 | 2C | * | A22-2240-02 | SUB PANEL | M1 |
| 207 | 3C | * | A64-1265-01 | PANEL | M1 |
| 207 | 3C | * | A64-1312-01 | PANEL | KE1E2 |
| - | | | B46-0100-50 | WARRANTY CARD | |
| - | | | B46-0172-13 | QUESTIONNAIRE CARD | K |
| - | | | B46-0182-14 | ID CARD | E1E2 |
| - | | | B58-1236-04 | CAUTION CARD (CODE) | |
| - | | | B58-1275-04 | CAUTION CARD | |
| - | | | B64-1092-00 | INST. MANUAL (E, F, S, P) | KE1 |
| - | | | B64-1093-00 | INST. MANUAL (E, TAIW) | M1 |
| - | | * | B64-1094-00 | INST. MANUAL (G, D, I) | E1 |
| - | | * | B64-1118-00 | INST. MANUAL (E, R, PL) | E2 |
| - | | * | B64-1145-00 | INST. MANUAL (CH, H, CR) | E2 |
| 210 | 3D | | D10-4031-33 | ARM | |
| 211 | 1C | | D10-4033-14 | LEVER | |
| 212 | 1D | | D39-0226-03 | DAMPER | |
| 213 | 1C | | E30-4138-05 | CORD WITH PLUG | |
| 215 | 1C | | F19-1303-04 | BLIND PLATE | |
| - | | | H02-0813-13 | INNER CARTON CASE | |
| - | | | H10-4554-12 | POLYSTYRENE FOAMED FIXTURE | |
| - | | | H25-0337-04 | PROTECTION BAG (180X300X0.03) | |
| - | | | H25-1115-04 | PROTECTION BAG | |
| - | | | H54-0963-04 | ITEM CARTON CASE | |
| 217 | 1C | | J19-4687-22 | HOLDER ASSY (MAGAZINE) | |
| 218L | 1C | | J19-4713-13 | BRACKET | |
| 218R | 1C | | J19-4715-13 | BRACKET | |
| 219 | 1C | | J21-7618-14 | MOUNTING HARDWARE ASSY | M1 |
| 220 | 1C | | J69-0506-04 | ADHESIVE TAPE | M1 |
| 222 | 1C | | J99-0604-11 | TRAY | |
| 223 | 2C | | K24-1792-04 | KNOB | |
| 224 | 1C | | N99-1628-15 | SCREW SET | M1 |
| 224 | 1C | | N99-1645-15 | SCREW SET | KE1E2 |
| A | 3D | | N89-2606-45 | BINDING HEAD TAPTITE SCREW | |
| B | 2D | | N89-2004-46 | BINDING HEAD TAPTITE SCREW | |
| C | 3D | | N09-4186-15 | STEPPED SCREW | |
| ME1 | 2D | | X92-3170-00 | MECHANISM ASSY | |
| SUB-CIRCUIT UNIT (X13-8990-00) | | | | | |
| CN1 | | | E40-9487-05 | FLAT CABLE CONNECTOR | |
| CN2 | | | E40-9536-05 | FLAT CABLE CONNECTOR | |

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|---------------------------------------|---------|-----------|----------------|------------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 |
| S1 ,2 | | | S74-0811-05 | MICRO SWITCH | |
| SUB-CIRCUIT UNIT (X13-9000-00) | | | | | |
| CN1 | | | E40-9555-05 | FLAT CABLE CONNECTOR | |
| J1 | | | E56-0825-05 | CYLINDRICAL RECEPTACLE | |
| CD PLAYER UNIT (X32-4260-00) | | | | | |
| C1 | | | C92-1336-05 | ELECTRO 10UF 6.3WV | |
| C3 | | | C92-1336-05 | ELECTRO 10UF 6.3WV | |
| C4 | | | CC73FCH1H101J | CHIP C 100PF J | |
| C5 | | | CK73FB1H223KTA | CHIP C 0.022UF K | |
| C6 | | | CC73FCH1H030C | CHIP C 3.0PF C | |
| C7 | | | CC73FCH1H330J | CHIP C 33PF J | |
| C8 | | | C92-0509-05 | CHIP-TAN 10UF 6.3WV | |
| C9 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C10 | | | CK73FB1H103K | CHIP C 0.010UF K | |
| C11 | | | C92-0509-05 | CHIP-TAN 10UF 6.3WV | |
| C12 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C13 | | | CK73FB1H473KTA | CHIP C 0.047UF K | |
| C14 | | | CK73FB1H472K | CHIP C 4700PF K | |
| C15 | | | CK73FB1H153KTA | CHIP C 0.015UF K | |
| C16 | | | CC73FCH1H391J | CHIP C 390PF J | |
| C17 | | | CK73FB1H103K | CHIP C 0.010UF K | |
| C18 | | | CC73FCH1H271J | CHIP C 270PF J | |
| C19 | | | CK73EB1H473K | CHIP C 0.047UF K | |
| C20 | | | CK73FB1H103K | CHIP C 0.010UF K | |
| C21 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C22 | | | C92-1336-05 | ELECTRO 10UF 6.3WV | |
| C26 | | | C92-1336-05 | ELECTRO 10UF 6.3WV | |
| C28 | | | C92-1390-05 | ELECTRO 100UF 6.3WV | |
| C30 -33 | | | CK73FB1H471K | CHIP C 470PF K | |
| C34 -37 | | | CC73FCH1H181J | CHIP C 180PF J | |
| C45 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C46 ,47 | | | C92-1393-05 | ELECTRO 10UF 16WV | |
| C48 ,49 | | | CK73FB1H222K | CHIP C 2200PF K | |
| C50 ,51 | | | C92-1393-05 | ELECTRO 10UF 16WV | |
| C52 | | | C92-1335-05 | ELECTRO 4.7UF 16WV | |
| C53 | | | CK73FB1H332K | CHIP C 3300PF K | |
| C54 | | | CK73FB1H272K | CHIP C 2700PF K | |
| C57 | | | C92-0628-05 | CHIP-TAN 10UF 10WV | |
| C60 | | | C92-1335-05 | ELECTRO 4.7UF 16WV | |
| C62 | | | C92-1335-05 | ELECTRO 4.7UF 16WV | |
| C63 ,64 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C67 | | | CC73FCH1H101J | CHIP C 100PF J | |
| C68 | | | C92-1336-05 | ELECTRO 10UF 6.3WV | |
| C71 | | | C92-1391-05 | ELECTRO 220UF 6.3WV | |
| C72 | | | C92-1335-05 | ELECTRO 4.7UF 16WV | |
| C73 | | | C92-1392-05 | ELECTRO 100UF 10WV | |
| C74 | | | C92-1335-05 | ELECTRO 4.7UF 16WV | |
| C75 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C77 | | | C92-1388-05 | ELECTRO 470UF 16WV | |
| C78 ,79 | | | CK73EB1H104K | CHIP C 0.10UF K | |
| C81 ,82 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C83 | | | C90-1827-05 | ELECTRO 0.047F 5.5WV | |
| C400 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| C401, 402 | | | C92-0005-05 | CHIP-TAN 2.2UF 6.3WV | |

△ indicates safety critical components.

KDC-C461

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

CD PLAYER UNIT (X32-4260-00)

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|----------|---------|-----------|---------------|----------------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名/規格 | 仕向 |
| C403 | | | CC73FCH1H221J | CHIP C 220PF J | |
| C404 | | | CK73FB1C104K | CHIP C 0.10UF K | |
| CN1 | | | E40-9338-05 | FLAT CABLE CONNECTOR | |
| CN2 | | | E40-9404-05 | FLAT CABLE CONNECTOR | |
| X1 | | | L78-0620-05 | RESONATOR | |
| X2 | | | L78-0529-05 | RESONATOR | |
| H | 3A | | N86-2005-46 | BINDING HEAD TAPTITE SCREW | |
| R1 | .2 | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R3 | | | RK73FB2A393J | CHIP R 39K J 1/10W | |
| R4 | | | RK73EB2B820J | CHIP R 82 J 1/8W | |
| R5 | | | RK73FB2A393J | CHIP R 39K J 1/10W | |
| R6 | .7 | | RK73EB2B824J | CHIP R 820K J 1/8W | |
| R8 | .9 | | RK73FB2A562J | CHIP R 5.6K J 1/10W | |
| R10 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | |
| R11 | | | RK73EB2B223J | CHIP R 22K J 1/8W | |
| R12 | | | RK73FB2A824J | CHIP R 820K J 1/10W | |
| R13 | | | RK73FB2A273J | CHIP R 27K J 1/10W | |
| R14 | | | RK73FB2A303J | CHIP R 30K J 1/10W | |
| R15 | | | RK73FB2A113J | CHIP R 11K J 1/10W | |
| R16 | | | RK73FB2A474J | CHIP R 470K J 1/10W | |
| R17 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R18 | | | RK73EB2B103J | CHIP R 10K J 1/8W | |
| R19 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R21 | .22 | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R26 | -29 | | RK73EB2B472J | CHIP R 4.7K J 1/8W | |
| R30 | -33 | | RK73FB2A562J | CHIP R 5.6K J 1/10W | |
| R34 | -37 | | RK73FB2A752J | CHIP R 7.5K J 1/10W | |
| R38 | -41 | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R46 | .47 | | RK73FB2A681J | CHIP R 680 J 1/10W | |
| R58 | .59 | | RK73FB2A472J | CHIP R 4.7K J 1/10W | |
| R60 | .61 | | RK73FB2A223J | CHIP R 22K J 1/10W | |
| R62 | | | RK73FB2A682J | CHIP R 6.8K J 1/10W | |
| R63 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | |
| R65 | | | RK73FB2A153J | CHIP R 15K J 1/10W | |
| R66 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R68 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | |
| R70 | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | |
| R71 | | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R73 | | | RK73FB2A682J | CHIP R 6.8K J 1/10W | |
| R74 | .75 | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R76 | | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R78 | | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R79 | -81 | | RK73FB2A223J | CHIP R 22K J 1/10W | |
| R82 | | | RK73FB2A473J | CHIP R 47K J 1/10W | |
| R83 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R84 | | | RK73FB2A473J | CHIP R 47K J 1/10W | |
| R85 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R86 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | |
| R87 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R88 | | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R90 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R91 | -93 | | RK73FB2A104J | CHIP R 100K J 1/10W | |

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|-----------|---------|-----------|----------------|----------------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名/規格 | 仕向 |
| R94 | | | RK73EB2B104J | CHIP R 100K J 1/8W | |
| R95 | | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R97 | -99 | | RK73FB2A101J | CHIP R 100 J 1/10W | |
| R100 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R101 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R120 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R121 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R122 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | |
| R123 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R124 | | | RK73FB2A473J | CHIP R 47K J 1/10W | |
| R125 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R126 | | | RK73FB2A183J | CHIP R 18K J 1/10W | |
| R127 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R135, 136 | | | RK73EB2B222J | CHIP R 2.2K J 1/8W | |
| R200 | | | RK73EB2B100J | CHIP R 10 J 1/8W | |
| R201 | | | RK73FB2A103J | CHIP R 10K J 1/10W | |
| R202-212 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R213-217 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R218 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R221 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R222 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| R223 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R301 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R302, 303 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R303 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R306 | | | RK73FB2A104J | CHIP R 100K J 1/10W | |
| R401-404 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | |
| W2 | -4 | | R92-2052-05 | CHIP R 0 J 1/10W | |
| W7 | .8 | | R92-2052-05 | CHIP R 0 J 1/10W | |
| W205 | | | R92-2053-05 | CHIP R 0 J 1/8W | |
| W211 | | | R92-2052-05 | CHIP R 0 J 1/10W | |
| W400 | | | R92-2052-05 | CHIP R 0 J 1/10W | |
| S1 | | | S68-0823-05 | PUSH SWITCH | |
| S2 | | | S70-0838-05 | TACT SWITCH | |
| S3 | | | S68-0823-05 | PUSH SWITCH | |
| D1 | .2 | | DAP202K | DIODE | |
| D4 | .5 | | MA3056-M | ZENER DIODE | |
| D9 | | | SC016-2 | DIODE | |
| D10 | | | MA3056-M | ZENER DIODE | |
| D11 | | | MA3075-M | ZENER DIODE | |
| D12 | | | DA204K | DIODE | |
| D13 | -15 | | SC016-2 | DIODE | |
| D16 | | | DA204K | DIODE | |
| IC1 | | | UPC2572A | MOS-IC | |
| IC2 | | | UPD63702 | MOS-IC | |
| IC3 | | | NJM2100M | MOS-IC | |
| IC5 | | | TA78L05F | IC(VOLTAGE REGULATOR/ +5V) | |
| IC6 | | | UPD78058GCA04T | MI-COM IC | |
| IC7 | | | PST9137NR | ANALOGUE IC | |
| IC8 | | | 8A6791FP | ANALOGUE IC | |
| IC9 | | | 8A6417F | ANALOGUE IC | |
| IC10 | | | MS278D05 | IC(VOLTAGE REGULATOR) | |
| IC11 | | | AK93C45AF | MOS-IC | |
| IC11 | | | BR93LC46AF | MOS-IC | |

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

CD PLAYER UNIT (X32-4260-00)

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|----------|---------|-----------|----------------|--------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名/規格 | 仕向 |
| Q1 | | | 2SA1362(Y) | TRANSISTOR | |
| Q2 | | | DTC124EK | DIGITAL TRANSISTOR | |
| Q3 ,4 | | | 2SD2114K | TRANSISTOR | |
| Q5 | | | DTA124EK | DIGITAL TRANSISTOR | |
| Q6 | | | 2SB1188 | TRANSISTOR | |
| Q7 ,8 | | | DTC124EK | DIGITAL TRANSISTOR | |
| Q9 | | | DTA114EK | DIGITAL TRANSISTOR | |
| Q10 | | | 2SA1362(Y) | TRANSISTOR | |
| Q11 | | | DTA143EK | DIGITAL TRANSISTOR | |
| Q12 | | | 2SA1362(Y) | TRANSISTOR | |
| Q13 ,14 | | | DTC124EK | DIGITAL TRANSISTOR | |
| Q15 | | | 2SB1655(E,F) | TRANSISTOR | |
| Q16 ,22 | | | 2SC2412K | TRANSISTOR | |
| Q17 | | | DTA143EK | DIGITAL TRANSISTOR | |
| Q18 ,19 | | | DTC124EK | DIGITAL TRANSISTOR | |
| Q20 ,21 | | | DTC114YK | DIGITAL TRANSISTOR | |
| TH1 | | | NTH5G40B333K01 | THERMISTOR | |

MECHANISM ASSY(X92-3170-00)

| | | | | | |
|----|----|--|-------------|----------------------|--|
| 1 | 1A | | A10-4229-03 | CHASSIS ASSY | |
| 2 | 2B | | A10-4231-02 | CHASSIS CALKING ASSY | |
| 3 | 1B | | A10-4233-03 | CHASSIS CALKING ASSY | |
| 4 | 2B | | A10-4235-14 | CHASSIS CALKING ASSY | |
| 5 | 3B | | A10-4248-02 | CHASSIS CALKING ASSY | |
| 6 | 2A | | A10-4247-02 | CHASSIS | |
| 7 | 1B | | A10-4249-02 | CHASSIS CALKING ASSY | |
| 8 | 2A | | D02-0210-03 | TURNTABLE PLATTER | |
| 9 | 2B | | D10-4018-03 | ARM | |
| 10 | 1B | | D10-4019-03 | LEVER | |
| 11 | 2B | | D10-4020-03 | LEVER | |
| 12 | 1B | | D10-4036-04 | ARM | |
| 13 | 2A | | D10-4037-04 | SLIDER ASSY | |
| 14 | 1B | | D10-4035-13 | SLIDER | |
| 15 | 3A | | D10-4026-03 | LEVER | |
| 16 | 2A | | D10-4027-04 | LEVER ASSY | |
| 17 | 3B | | D10-4029-04 | SLIDER ASSY | |
| 18 | 2B | | D10-4032-03 | SLIDER | |
| 19 | 1B | | D10-4083-03 | LEVER | |
| 20 | 2B | | D12-0618-03 | CAM | |
| 21 | 1B | | D12-0619-03 | CAM | |
| 22 | 1A | | D13-1251-04 | GEAR | |
| 23 | 1A | | D13-1252-04 | GEAR | |
| 24 | 1A | | D13-1253-04 | GEAR | |
| 25 | 2A | | D13-1254-04 | GEAR | |
| 26 | 2B | | D13-1255-14 | GEAR | |
| 27 | 1B | | D13-1256-04 | GEAR | |
| 28 | 1A | | D13-1257-04 | GEAR ASSY | |
| 29 | 2A | | D13-1259-04 | GEAR | |
| 30 | 2B | | D13-1262-14 | GEAR | |
| 31 | 3A | | D13-1263-04 | WORM | |
| 32 | 3A | | D13-1264-04 | GEAR | |
| 33 | 3A | | D13-1265-04 | GEAR | |
| 34 | 3B | | D13-1266-04 | GEAR | |
| 35 | 2A | | D13-1338-04 | GEAR | |
| 36 | 2A | | D19-0614-04 | LEAD SCREW | |
| 37 | 2A | | D19-0615-04 | CLUTCH ASSY | |

| Ref. No. | Address | New Parts | Parts No. | Description | Destination |
|----------|---------|-----------|-------------|---------------------------------|-------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名/規格 | 仕向 |
| 41 | 3B | | D39-0225-05 | DAMPER | |
| FC1 | 3B | | E39-0172-05 | FLAT CABLE | |
| FC2 | 3B | | E39-0173-05 | FLAT CABLE | |
| 43 | 2A | | F09-1220-04 | SHEET | |
| 44 | 3B | | F09-1245-04 | SHEET | |
| 45 | 2B | | G01-2778-04 | TORSION COIL SPRING | |
| 46 | 2B | | G01-2779-04 | TORSION COIL SPRING | |
| 47 | 2A | | G01-2781-04 | COMPRESSION SPRING | |
| 48 | 3B | | G01-2782-04 | TORSION COIL SPRING | |
| 49 | 1B | | G01-2783-04 | EXTENSION SPRING | |
| 50 | 3A | | G01-2784-04 | EXTENSION SPRING | |
| 51 | 3A | | G01-2785-04 | EXTENSION SPRING | |
| 52 | 1B | | G01-2789-04 | EXTENSION SPRING | |
| 53 | 2A | | G01-2810-04 | EXTENSION SPRING | |
| 54 | 3B | | G01-2809-04 | EXTENSION SPRING | |
| 55 | 1B | | G01-2814-04 | TORSION COIL SPRING | |
| 57 | 1A | | G02-1235-04 | FLAT SPRING | |
| 58 | 1A | | G02-1236-04 | FLAT SPRING | |
| 59 | 2B | | G02-1237-03 | FLAT SPRING | |
| 60 | 2B | | G02-1238-04 | FLAT SPRING | |
| 62 | 3A | | G02-1240-04 | FLAT SPRING | |
| 64 | 2B | | G10-1023-04 | FELT | |
| 65 | 2B | | J11-0614-03 | CLAMPER | |
| 66 | 2A | | J21-7695-04 | MOUNTING HARDWARE | |
| 67 | 3B | | J21-7696-03 | MOUNTING HARDWARE | |
| 68 | 3A | | J21-7698-04 | MOUNTING HARDWARE | |
| 69 | 1B | | J21-7767-03 | MOUNTING HARDWARE | |
| 71 | 2B | | J90-0758-03 | GUIDE | |
| 72 | 2B | | J90-0759-03 | GUIDE | |
| 73 | 2B | | J90-0760-03 | RAIL | |
| FPC1 | 2A | | J84-0063-05 | FLEXIBLE PRINTED WIRING BOARD | |
| A | 1B | | N09-4126-05 | MACHINE SCREW (2X3.5, C341, 20) | |
| C | 3B | | N86-2005-46 | BINDING HEAD TAPTITE SCREW | |
| D | 2B | | N09-4189-05 | TAPTITE SCREW (1.7X1.5(S341)) | |
| E | 2A | | N09-4154-05 | TAPTITE SCREW | |
| F | 1A | | N09-4181-05 | MACHINE SCREW (M1.7X3(C341)) | |
| G | 1A | | N39-1722-46 | PAN HEAD MACHIN SCREW | |
| J | 3A | | N09-4120-15 | TAPTITE SCREW (S341)2X3.5(22x) | |
| K | 2B | | N19-2058-04 | FLAT WASHER | |
| L | 1B | | N19-2080-04 | FLAT WASHER | |
| M | 2A | | N19-2081-04 | FLAT WASHER | |
| 75 | 3B | | R33-0201-05 | SLIDE TYPE VARIABLE RESISTOR | |
| M1 | 2A | | T42-0751-05 | DC MOTOR | |
| M2 ,3 | 3A | | T42-0749-05 | DC MOTOR | |
| PUI | 1A | | T25-0209-05 | OPTICAL PICKUP HEAD | |

△ indicates safety critical components.

KDC-C461

SPECIFICATIONS

Specifications subject to change without notice.

CD section

| | |
|---------------------------------|-----------------------------|
| Laser Diode | GaAlAs ($\lambda=780$ nm) |
| Digital Filter (D/A) | 8 Times Over Sampling |
| D/A Converter | 1 Bit |
| Spindle Speed | 500 ~ 200 rpm (CLV) |
| Wow & Flutter | Below Measurable Limit |
| Frequency Response | 5 Hz ~ 20 kHz (± 1 dB) |
| Total Harmonic Distortion | 0.005 % (1 kHz) |
| S/N Ratio (dB) | 94 dB |
| Dynamic Range | 94 dB |
| Channel Separation | 85 dB |

General

| | |
|-------------------------------------|--|
| Operating Voltage | 14.4 V (11 ~ 16 V allowable) |
| Current Consumption | 0.8 A at rated power |
| Installation Size (W x H x D) | 250 x 64 x 173 mm (9-13/16 x 2-1/2 x 6-13/16 in.) |
| Weight | 1.8 kg |

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