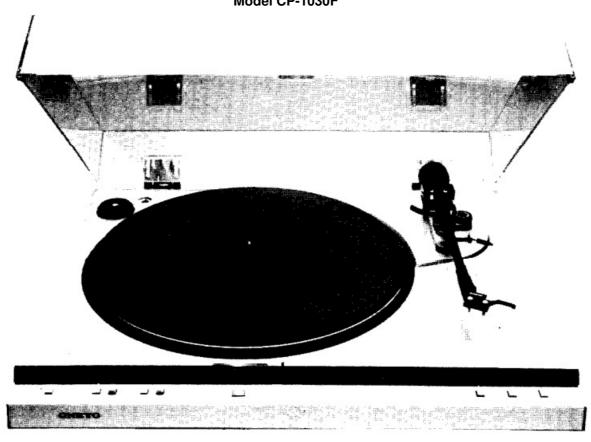


ONKYO CP-1030F Direct Drive Turntable Record Player Owner's Manual

Home » ONKYO » ONKYO CP-1030F Direct Drive Turntable Record Player Owner's Manual



SERVICE MANUAL
QUARTZ SINGLE-PLAY
FULLY AUTOMATIC
TURNTABLE
Model CP-1030F



Contents

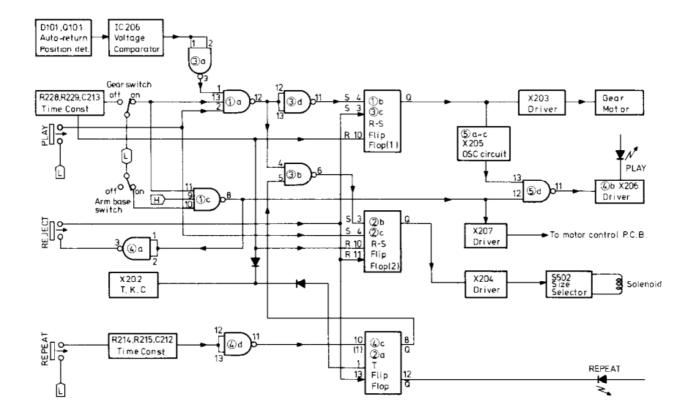
- 1 SPECIFICATIONS
- **2 BLOCK DIAGRAM**
- **3 PACKING PROCEDURES**
- **4 PARTS LIST**
- 5 Turntable "Flattens" Warps
- **6 Documents / Resources**
 - **6.1 References**

SPECIFICATIONS

Type:	2-speed fully-automatic turn- table with cueing lever			
Turntable Platter:	31 cm (12-3/16") Aluminum diecast			
Motor:	Brushless, coreless, slotless, DC Quartz Direct Drive			
Speeds:	33-1/3 rpm, 45 rpm			
Wow & Flutter:	0.03%WRMS			
Signal-to-Noise Ratio:	75 dB (DIN B)			
Tonearm:	Static balanced straight pipe			
Effective Arm Length:	224mm (8-13/16")			
Overhang:	13mm (/2")			
Maximum Tracking Error:	+3 degrees, 1 degree			
Usable Cartridge Weight:	Min. 5.0 g, Max. 8.5 g			
Power Supply Rating:	AC 110-120, 220-240V, 50/60 Hz (or 240V 50Hz, 120V 60Hz, only)			
Power Consumption:	6 watts			
Dimensions (W x D x H):	17-7/8" 14-1/2' x5-1/4°			
Weight:	6.5 kg (14.3 lbs.)			
Cabinet Composition				
Turntable Board:	Polystyrene			
Bottom Board:	Fiber Reinforced Polyethylene			
Dust Cover:	Polystyrene			

In the interest of further product improvements specifications are subject to change with~ut notice.

BLOCK DIAGRAM



Service Technology (Part 1) Note

- 1. Refer to the circuit diagram and block diagram.
- 2. "L" and "H denote TTL positive logic, while the figures in circles denote IC pin terminal numbers and printed circuit board terminal numbers.
- 3. FF denotes flip-flop.

Play operation

- When ICla (2) is dropped to "L" level, ICla (12) is switched over to "H and IC 1 b (6) is switched to "H" to turn X203 on, the main gear drive motor is started.
- When IC2b (4) is dropped to "L" level and IC2b (6) switched to "H level to turn X204, the record size selector solenoid is actived.
- When the main gear drive motor is started, the main gear is rotated and SW7 gear switch is turned on.
- When the main gear switch is turned on, IClc (11) is switched over to "L" and IC 1 c (8) is switched to "H' to turn X207 on, the turntable platter drive motor is started.
- When the main gear is rotated, the tonearm is operated and the tonearm switch is turned on.
- When the IC5a (1) input of oscillator circuit is switched "H' level, it's circuit is operated, thereby the play indicator repeat to turn on and off.
- When the rotation of main gear is finished, the gear switched restores R-F flip-flops to the initial condition and the play indicator is turned on.

4. Reject Operation

- When1C1b(3) is dropped to "L" level and IC1b (6) switched to "H' to turn X203 on, the main gear drive motor is again started up.
- When IC2c (I 0) is dropped to "L" level, IC2c (8) is switched to "H" and IC2b (6) to "L" to cut X204 off, thereby inhibiting the record size selector solenoid.

5. Repeat Operation

• When IC4c (10) is dropped to "L level, IC4c (8) is switched to "H' and IC3b (5) kept at "H". When IC2a (1) is switched to "H' level, IC2a (12) is dropped to "L" to turn the repeat indicator L.E.D. on. When the tonearm returns automatically at the end of the record, 1C206 (6) generates an H pulse ([1]) which is then inverted by IC3d to become an L pulse. When this pulse is applied to IC1a (1), resulting in ICla (12) being switched to "H level. Thereby when IC3b (6) switched "L" level, IC2b (6) switch to "H' to turn X204 on and activate the record size selector solenoid.

To release the repeat mode, simply press the REJECT key. In this case, IC2a(13) is dropped to "L level, IC2a (12) switched to "H and IC4c(8) to "L', followed by IC3b(5) being switched to "L" and IC3b(6) to "H Then in conjunction with the reject operation described above, the repeat mode is released by reject action. In other words, the repeat mode is maintained only as long as IC3b(5) is kept at "H level.

Restoration of Initial Condition

When the main gear drive motor is started up for play or reject operations, the main gear is also rotated. SW7 coupled to the main gear restores two R-S flip-flops initial condition.

Auto-Return

When an eccentric pin of the lead arm coupled to the tone arm is inserted between D601 and Q601, it serves as a shut off mechanism which turns the Q601 phototransistor off.

The difference in voltage is applied to a comparator via IC206 (3), resulting in the generation of a positive pulse which serves as the comparator output appearing at IC206 (6). This pulse is subjected to rectification and inversion at the CR and IC3a, thereby forming a negative pulse which is applied to IC1a(1). This is then followed by return or repeat operation in the same way as described above.

Manual Play

When the tonearm is raised from the arm reset by hand, the tone arm switch drops IClc(IO) to "L level, resulting in 1Clc(8) being switched to "H" to turn X207 on, thereby starting up the turntable motor by turn on of X207.

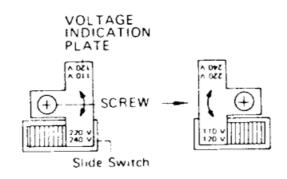
Stopping the Turntable Motor

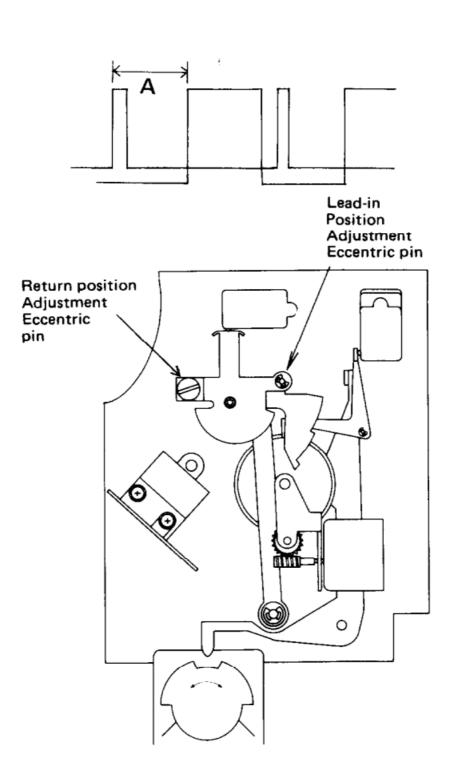
- When the tonearm is returned manually to the arm rest IC 1 c(I 0) is switched instantaneously to "H level and IC 1 c(8) to "L", thereby turning X207 off to bring the turntable motor to a stop.
- When the main gear starts to rotate during reject or auto return mode, the SW7 gear switch is set to "on" position during rotation, and to "off" position end the end of one revolution. As soon as this single revolution is completed, I Clc(11) is switched to "H level.

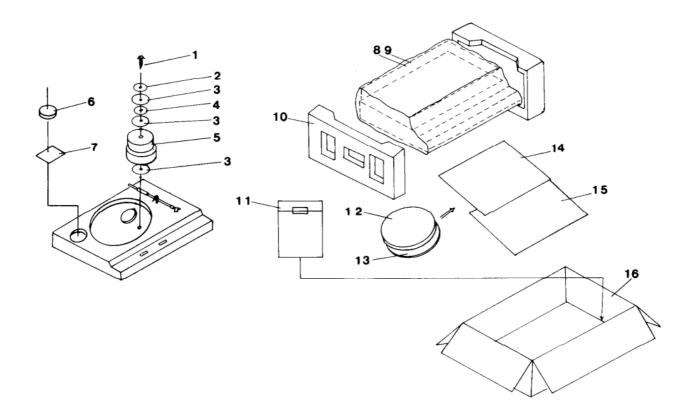
The arm switch is at "off' position (on the arm rest) at this time, and IC1c(10) is at "H" level. At the instant that IC1e(8) is switched to "L", resulting in X207 being cut off to stop the turntable motor.

Power On Reset

When the power switch is turned on, three FFs at X202 time constant circuit are reset to their prescribed initial state.

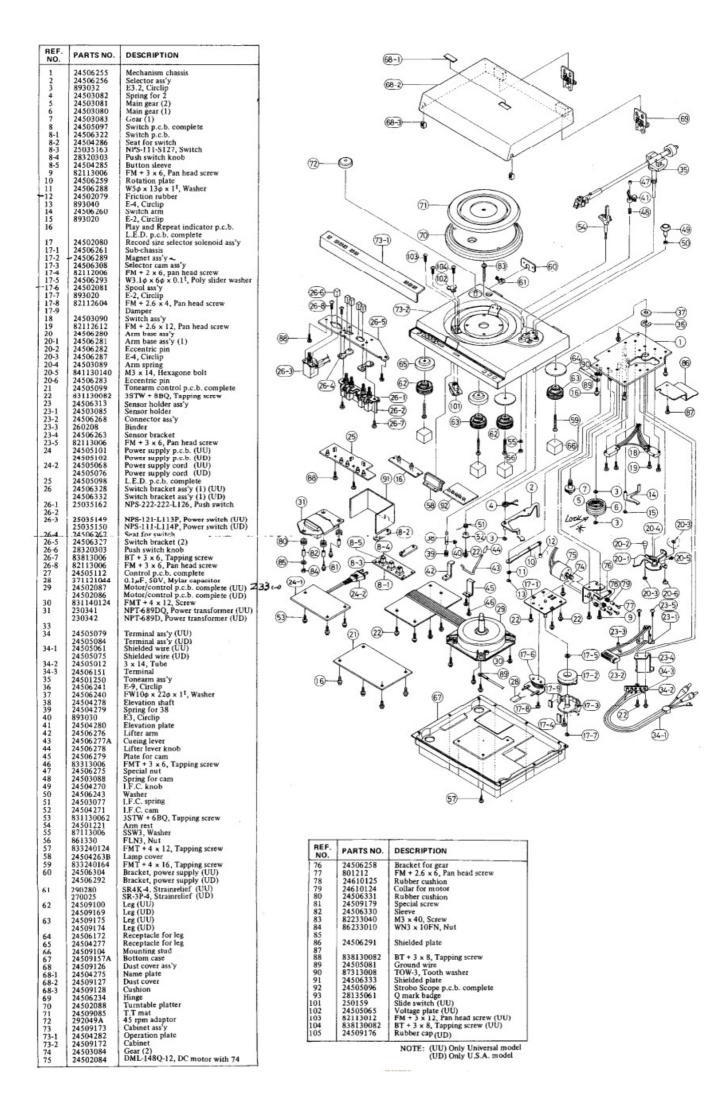


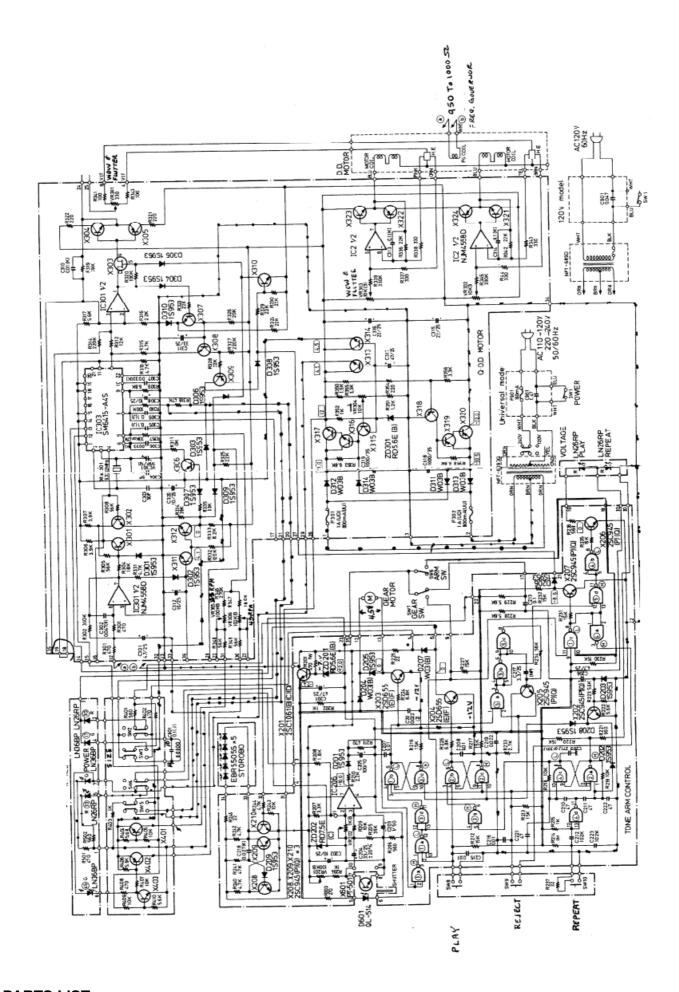




REF. NO.	PARTS NO.	DESCRIPTION	
1	24059147	FMT#4 x 30, Screw	
2	870063	FW4.6¢ x 10¢ x 0.5", Washer	
3	24500464	Caution card	
4	24506248	FW4.7 x 28¢ x 0.4°, Washer	
5	24501246	Counter weight	
6	292049A	45 adaptor	
7	24509061	Poly sheet	
8	29095097	280 x 200 mm, Protection sheet (Power supply cord)	
	29100042	550 x 550 mm, Protection sheet (Dust cover)	
	29095012	800 x 500 mm, Protection sheet (Cabinet)	
9	29100018	750 x 650 mm, Poly bag	
10	24509139	Pad	
11	29100005 29340369	220 x 330 mm, Poly bag Instruction manual (Universal and 240V model)	
	29340370 25055018	Instruction manual (Only 120V model) CV-K-1, Conversion plug (Only Universal model)	
	29365006	Warranty card (Only U.S.A. model)	
	29365005-2	Warranty card (Only Germany model)	
	24509168	Overhang gage	
12	24502088	Turntable platter	
13	24509085	T.T. mat	
14	29100008	350 x 450 mm, Poly bag	
15	24509162	500 x 420 mm, Bottom pad sheet	
16	29050299	Carton box	

EXPLODED VIEW

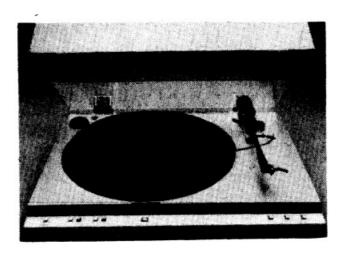




NO.	CIRCUIT NO.	PARTS NO.	DESCRIPTION	Z7	Connector pos 24506318	2P
8		24505097	Switch p.c.b.	Z8 Z9	24506319 24506299	3P 4P
16			Play and repeat indicator p.c.b.	Z10	24506297	5P
21		24505099	Tonearm control p.c.b.	Z11	24506320	6P
24		24505101 24505102	Power supply p.c.b. (UU) Power supply p.c.b. (UD)			RD - PARTS LIST
25		24505098	Power/Speed/Size indicator p.c.b.	CIRCUIT NO.	PARTS NO.	DESCRIPTION
27		24505112	Control p.c.b.	CINCOIT NO.		DESCRIPTION
29		24502087	Motor/control p.c.b. (UU)	10201 10202	ICs	NIM ASSOD
		24502086	Motor/control p.c.b. (UD)	IC301, IC302 IC303	222465 222583	NJM-4558D SM6415A-4S
92	CW/1	24505096 25035149	Strobo scope p.c.b. NPS-121-L113P, Power switch	10303	Transistors	511041574-5
	SW1	23033149	(UU)	X301, X302	2210351	2SC945(K)
	SW1	25035150	Power switch (UD)	7,001, 7,002	2211672 or	2SC2308(B) or
	SW2-SW		NPS-222-222-L126, Push switch	X303	2211292	2SK68(L)
	SW6	24503049	K-3, Micro switch	X304	2210351 or	2SC945(K)
	SW7	24503040	K-1, Micro switch NPS-111-S127, Tact switch		2211672 or 2211362	2SC2308(B) ^{OT} 2SA844(B)
	5W8-5W	10 25035163 225036	GL-514, L.E.D. for return detector	X305, X306	2210803 or	2SA733(P) or
		226001	PT-501A, Phototransistor	**200 V207	2210351	2SC945(K)
35		24501250	Tonearm ass'y	X308, X307	2211672 or	2SC2308(B)OT
		24501247	Screw for tonearm	X309	2211362 2210803 or	2SA844(B) 2SA733(P) or
		24501246 24501252	Counter weight Headshell		2210803	
		24501232	Screw for cartridge	X310-X316	2210351 2211627 or	2SC945(K) 2SC2308(B) or
		24501232	Nut for cartridge	X317	2200842	2SC1419(B)
		24500079	Washer for cartridge	X318, X319	2211362	2SA844(B)
		24505106	2P+7P, Connector ass'y		2210803	2SA733(P) or
		24505105	2P, brown and orange, Connector ass'y	X320	2200852	2SA755(B)
		24505107	2P, yellow and green,	X321, X323	2201112 or 2201122 or	2SD794(R) 2SC1162(B) or
			Connector ass'y	W222 W224	2201132	/SB/44(R)
		24505108	3P, Connector ass'y	X322, X324	2201142 or	2SA715(B) or
		24505109	6P, Connector ass'y		Diodes	
		24505104	2P, red and blue, Connector ass'y	ZD301	224082 223947 or	WZ056
			DARD - PARTS LIST	D301-D310	223127	RD5.6EB 01 1S953
CIRC	UIT NO.	PARTS NO.	DESCRIPTION	D311-D314	223851	W03(B)
		ICs			X'tal	
IC201	1, IC202	222439 222481 or	SN7410N or HD7410P	Q301	3010039	9.3312MHz
		222425			Semi-fixed res	
IC203	3, IC204	222 470 Or	SN7400N or HD7400P	VR301	5225025	N10HR330BD
		222478			5225015	NII OII DIOMED D
IC205		222478	SN741 S00 or HD741 S00	VR302-VR304		N10HR10KBD
IC205	5	222586 222582 or	SN74LS00 or HD74LS00		5225080	N10HR10KBD N10HR100KBDM
IC206	5	222586 222582 or 222545	SN74LS00 or HD74LS00 µPC741C	VR302-VR304 VR305,VR306	5225080 Capacitors	N10HR100KBDM
	5	222586 222582 or 222545 Transistors		VR302-VR304 VR305,VR306 C301 C308	5225080 Capacitors 352750471 352751001	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect.
IC206	5	222586 222582 or 222545 Transistors 2201082,	µРС741С	VR302-VR304 VR305,VR306 C301 C308 C311	5225080 Capacitors 352750471 352751001 352753301	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect.
	5	222586 222582 or 222545 Transistors 2201082,		VR302-VR304 VR305,VR306 C301 C308 C311 C312	5225080 Capacitors 352750471 352751001 352753301 352751001	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect.
IC206 X201	5	222478 222586 222586 or 222585 Transistors 2201082, 2201083 or 2201084	µРС741С 2SC1061(B), (C) or (D)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect.
IC206	5	222478 222586 or 222545 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or	µРС741С	VR302-VR304 VR305,VR306 C301 C308 C311 C312	5225080 Capacitors 352750471 352751001 352753301 352751001	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect.
X201 X202	5	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or	µРС741С 2SC1061(B), (C) or (D)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352751001	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. 10μF, 25V, Elect.
X201 X202 X203	, X204	222478 222586 or 222582 or 222545 Transistors 2201082, 2201084 2210353 2210354 or 2211705 or 2211706 or	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352751001 3060008	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect.
X201 X202 X203	, X204	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or	µРС741С 2SC1061(B), (C) or (D) 2SC945(P) or (Q)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301	5225080 Capacitors 352750471 352751001 352753301 352753001 352752201 352744701 352761021 352751001 3060008 Terminals	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. 10µF, 25V, Elect. NTC20P07, Trimmer
X201 X202 X203	, X204 -X210	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2211056 or 2211706 or 2211706 2211706 2210353 2210354 or	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. 10µF, 25V, Elect. NTC20P07, Trimmer
X201 X202 X203 X205	, X204 -X210	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211705 2211706 or 2210353 2210354 or Diodes	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5	5225080 Capacitors 352750471 352751001 352753301 352753001 352752201 352744701 352761021 352751001 3060008 Terminals	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 13μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1.000μF, 35V, Elect. NTC20P07, Trimmer 2P 3P
X201 X202 X203 X205 ZD20	, X204 -X210	222478 222586 222586 222545 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211705 2211706 or 2210353 2210354 or Diodes 223947 2234091 or	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. 10µF, 25V, Elect. NTC20P07, Trimmer
X201 X202 X203 X205 ZD20 ZD20	, X204 -X210	222478 222586 or 222585 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211705 2211705 or 2210353 2210354 or 2210354 Diodes 223947 224091 or	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506300	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P
X201 X202 X203 X205 ZD20 ZD20	, X204 -X210	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211706 or 2211706 or 2211353 2210353 or 2210353 2210354 or Diodes 223947 224091 or 223954 223954 223327	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506303 Fuseholder 24506098	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD)
X201 X202 X203 X205 ZD20 ZD20 D201 D204 D205	, X204 -X210 01 02 -D203 , D206	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211705 or 2211706 or 2210353 2210354 or Diodes 223947 224091 or 223954 223127 223851 223127	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506303 24506303 Fuseholder 24506098 245060312	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. 10μF, 25V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207	, X204 -X210 01 12 -D203 , D206	222478 222586 or 222585 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211705 2211705 2211705 or 2210354 0r 2210354 0r 2210354 0r 223957 223957 223957 223951 223951	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B)	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352751001 3600008 Terminals 24506302 24506301 24506303 Fuseholder 24506098 24506312 Fuse	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207	, X204 -X210 01 12 -D203 , D206 , D209	222478 222586 or 222585 Transistors 2201083 or 2201084 2210353 2210354 or 2211705 or 2211705 or 2210353 2210354 or 22120353 2210354 or 223954 223927 224091 or 223954 223127 223851 223127	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 13μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222586 or 222545 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211353 2210354 or Diodes 223947 224091 or 223954 223127 223851 223127 223851 223127 Resistors	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 33μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222586 or 222587 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211706 or 2210353 2210354 or Diodes 223947 224091 or 223954 223127 223851 223127 223851 223127 223851 223127 Resistors 441624714 5225015	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 352752201 352744701 352761021 352751001 3060008 Terminals 24506302 24506301 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 13μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD)
X201 X202 X203 X205 ZD20 ZD201 D201 D204 D205 D207 D208 R201	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222586 or 222587 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211706 or 2210353 2210354 or Diodes 223947 224091 or 223954 223127 223851 223127 223851 223127 223851 223127 Resistors 441624714 5225015	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208 R201 VR20 VR20	, X204 -X210 01 12 -D203 , D206 , D209	222478 222586 or 222585 Transistors 2201083, or 2201084 2210353 2210354 or 2211706 or 2211705 2211706 or 2210353 2210354 or 2219357 221937 Diodes 2239947 223954 223127 223851 223127 223851 223127 Resistors 441624714 55225015 5225024 Capacitors	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label	N10HR100KBDM 4.7μF, 25V, Elect. 10μF, 25V, Elect. 13μF, 25V, Elect. 10μF, 25V, Elect. 22μF, 25V, Elect. 47μF, 16V, Elect. 1,000μF, 35V, Elect. 10μF, 25V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208 R201 VR20 VR20	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211706 or 2211706 or 2210353 2210354 or 2211706 2211353 2210354 or 2211706 2211353 2210354 Diodes 223947 224091 or 224091 223954 223127 223851 223127 223851 223127 Resistors 441624714 5225015 5225024 Capacitors 352754701	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD200 ZD201 D204 D205 D207 D208 R201 VR20 VR20 C201 C202	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211706 or 2211353 2210354 or 2211353 2210354 or 2211706 2211353 2210354 Diodes 223947 2234091 or 224091 223954 223127 223851 223127 223851 223127 Resistors 441624714 5225015 5225024 Capacitors 352754701 352741001	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208 R201 VR20 VR20 C201 C202 C203 C204	, X204 -X210 01 12 -D203 , D206 , D209	222478 222586 222586 222587 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211705 2211706 or 2210353 2210354 0r 223957 223957 224091 or 223954 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 23127 23851 23127 23851 23127 23851 23127 23851 233127 23851 233127 23851 233127 23851 233127 23851 233127 23851 233127 23851 233127 23851 233127 23851	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 33μF±20%, 16V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208 R201 VR20 VR20 C201 C202 C203 C204 C205	, X204 -X210 01 102 -D203 , D206 , D209	222478 222586 or 222586 or 222585 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 2211353 2210354 or 2211706 221353 2210354 Diodes 223947 2234091 or 223954 223127 223851 223127 223851 223127 Resistors 441624714 5525015 5525024 Capacitors 352754701 352741001 352743301 352741011	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 13μF, 50V, Elect. 100μF, 16V, Elect. 100μF, 16V, Elect. 100μF, 16V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD200 D201 D201 D204 D205 D207 D208 R201 VR20 C201 C202 C203 C204 C205 C206	, X204 -X210 11 12 -D203 , D206 , D209	222478 222586 or 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211706 or 2211353 2210354 or 2211706 2211353 2210354 Diodes 223947 2234091 or 223954 223127 223851 223127 223851 223127 Resistors 441624714 5225015 5225024 Capacitors 352741001 352780101 352780101 352741001 352780101 352743301 352741011	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 33μF±20%, 16V, Elect. 100μF, 16V, Elect. 4.7μF, 25V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD201 D204 D205 D207 D208 R201 VR20 VR20 C201 C202 C203 C204 C205	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 or 222585 Transistors 2201082, 2201083 or 2201084 2210353 2210354 or 2211706 or 2211353 2210354 or 2211706 2211353 2210354 Diodes 223947 2234091 or 223954 223127 223851 223127 223851 223127 Resistors 441624714 5225015 5225024 Capacitors 352741001 352780101 352780101 352780101 352741001 352780101 352750471 352950336	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 13μF, 50V, Elect. 100μF, 16V, Elect. 100μF, 16V, Elect. 100μF, 16V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD20 ZD20 D201 D204 D205 D207 D208 R201 VR20 VR20 C201 C202 C203 C204 C205 C206 C217	, X204 -X210 11 12 -D203 , D206 , D209	222478 222586 222586 222586 222587 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 221353 2210354 or 2211706 or 221353 2210354 223927 224091 or 223954 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 23127 23851 223127 23851 223127 23851 223127 23851 223127 23851 23127 23851 223127 23851 223127 23851 223127 23851 223127 23851 233127 233851 223127 233851 223127 233851 223127 233851 223127 23851 223127 233851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 23851 223851	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 13μF±20%, 16V, Elect. 100μF, 16V, Elect. 110μF, 25V, Elect. 13μF±25V, Elect. 13μF, 25V, Non-polar elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)
X201 X202 X203 X205 ZD200 D201 D201 D204 D205 D207 D208 R201 VR20 C201 C202 C203 C204 C205 C206	, X204 -X210 01 02 -D203 , D206 , D209	222478 222586 222586 222586 222587 Transistors 2201083 or 2201084 2210353 2210354 or 2211706 or 221353 2210354 or 2211706 or 221353 2210354 223927 224091 or 223954 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 223127 23851 23127 23851 223127 23851 223127 23851 223127 23851 223127 23851 23127 23851 223127 23851 223127 23851 223127 23851 223127 23851 233127 233851 223127 233851 223127 233851 223127 233851 223127 23851 223127 233851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 223851 223127 23851 223851	μPC741C 2SC1061(B), (C) or (D) 2SC945(P) or (Q) 2SD655(E) or (F) 2SC945(P) or (Q) RD5.6E or HZ6A-3L RD7.5E(C) 1S953 W03(B) 1S953 W03(B) 1S953 470Ω, 1W, Metal oxide film N10HR10KBD, Semi-fixed N10HR1KBD, Semi-fixed N10HR1KBD, Semi-fixed 47μF, 25V, Elect. 10μF, 16V, Elect. 1μF, 50V, Elect. 33μF±20%, 16V, Elect. 100μF, 16V, Elect. 4.7μF, 25V, Elect.	VR302-VR304 VR305,VR306 C301 C308 C311 C312 C315,C316 C317 C318,C319 C320 VC301 Z4 Z5 Z6 Z7	5225080 Capacitors 352750471 352751001 352753301 352751001 35275201 352744701 352761021 352761021 352751001 3060008 Terminals 24506302 24506300 24506303 Fuseholder 24506098 24506312 Fuse 252066 252080 Fuse label 24505110	N10HR100KBDM 4.7µF, 25V, Elect. 10µF, 25V, Elect. 33µF, 25V, Elect. 10µF, 25V, Elect. 22µF, 25V, Elect. 47µF, 16V, Elect. 1.000µF, 35V, Elect. NTC20P07, Trimmer 2P 3P 4P 5P (UD) (UU) 1A (UD) 800mA (UU)

Turntable "Flattens" Warps

Onkyo's new CP-1030F turntable is a single-play, fully automatic, direct-drive model with a quartz-lock speed control and a specially designed low-mass carbon-fiber



tonearm said to give optimum results with today's high-compliance cartridges. Low frequency resonance of the arm and a typ ical high-compliance cartridge is con trolled well enough, according to Onkyo, to allow warped records to be played with a minimum of distortion. In addition, the turn-table has a rated signal-to-noise ratio of 75 dB and wow and flutter less than 0.03% (WRMS). Reliability of the unit is said to be enhanced by the use of an additional motor dedicated to tonearm functions. A set of LED indicators show what functions are engaged. \$315. CIRCLE NO. 98 ON FREE INFORMATION CARD

Digital Encoder Interface

Sensor Technology has introduced an incremental encoder, the Digipot®, which provides an interface manually with a digi

ONKYO CORPORATION

International Division: No. 24 Mori Bldg., 23-5, 3-chome, Nishi-Shinbashi, Minato-ku, Tokyo, Japan

Telex: 2423551 ONKYO J. Phone: 03432-6981

ONKYO U.S.A. CORPORATION

Eastern Office

42-07 20th Avenue, Long Island City, New York 11105, U.S.A. Phone: (212) 728-4639

Midwest Office

935 Sivert Drive, Wooddale, Illinois 60191, U.S.A. Phone: (312) 595-2970

ONKYO DEUTSCHLAND GMBH, ELECTRONICS

8034 M~nchen-Germering, Industriestrasse 18, West Germany. Telex: 521726 Telefon: (089)-84-5041

Documents / Resources



ONKYO CP-1030F Direct Drive Turntable Record Player [pdf] Owner's Manual CP-1030F Direct Drive Turntable Record Player, CP-1030F, Direct Drive Turntable Record Player, Drive Turntable Record Player, Record Player, Player

References

• <u>Manual-Hub.com - Free PDF manuals!</u>

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.