CDP-C245/C345/C741

SERVICE MANUAL

Discard CDP-C245/C345/C741 Service Manual (No. 9-959-393-11) previously issued. This Service Manual contains it. US Model
Canadian Model
CDP-C245/C345/C741
AEP Model
UK Model
Australian Model

E Model

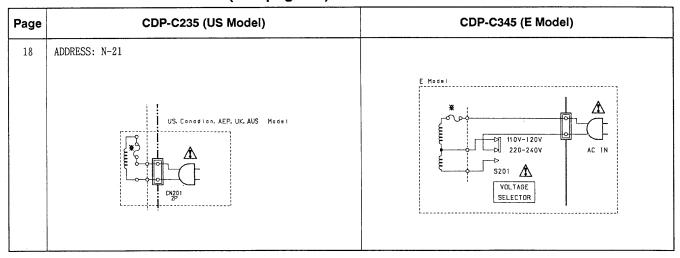
- CDP-C245/C345/C741 are similar to the earlier CDP-C235.
- Refer to CDP-C235 service manual for information not contained in this service manual.
- Refer to CDP-C245 (UK Model) for CDP-C235 (AEP Model) service manual.
- Refer to CDP-C345 (E Model) for CDP-C235 (US Model) service manual.

5-3. PRINTED WIRING BOARDS (See page 14)

Page	CDP-C235 (US Model)	CDP-C345 (E Model)
14	ADDRESS: B-22 US, Conadian, AEP, UK, AUS Model W NOT REPLACEABLE. BUILT IN, TRANSFORMER T201 POWER S CNP201	E Model C C C C C C C C C C C C C C C C C C C



5-4. SCHEMATIC DIAGRAM (See page 18)



EXPLODED VIEWS

For CDP-C345 (E Model), refer to the "all destinations" and difference table for E model.

CDP-C245 (All Destinations) Difference Table

Page		CDP-C235 (All Destinations)		CDP-C245 (All Destinations)		
	Ref. No.	Part No. Description	Ref. No.	Part No. Description		
21	9	X-4943-510-1 PANEL ASSY, FRONT (US, CND)	9	X-4944-531-1 PANEL ASSY, FRONT (US, CND)		
	9	X-4943-511-1 PANEL ASSY, FRONT (AEP, AUS)	9	X-4944-532-2 PANEL ASSY, FRONT (AEP, AUS, UK)		
	11	4-957-560-51 PANEL, LOADING	11	4-964-390-11 PANEL, LOADING		
22	* 72	4-957-560-51 PANEL, BACK (US, CND)	* 72	4-964-324-51 PANEL, BACK (US, CND)		
	* 72	4-957-560-61 PANEL, BACK (AEP)	* 72	4-964-324-62 PANEL, BACK (AEP)		
	_		* 72	4-964-324-92 PANEL, BACK (UK)		
	* 72	4-957-560-31 PANEL, BACK (AUS)	* 72	4-968-761-01 PANEL, BACK (AUS)		
	<u>^</u> 74	1-590-836-11 CORD, POWER (US, CND)	<u> </u>	1-575-042-21 CORD, POWER (US, CND)		
	<u> </u>	1-575-651-21 CORD, POWER (AEP)	<u> </u>	1-575-651-21 CORD, POWER (AEP)		
	<u> </u>	1-696-845-11 CORD, POWER (AUS)	<u> </u>	1-696-845-11 CORD, POWER (AUS)		
	<u> </u>	1-575-651-21 CORD, POWER (AEP)	<u> </u>	1-751-529-11 CORD, POWER (UK)		

CDP-C345 (All Destinations) Difference Table

Page	CDP-C235 (All Destinations)	CDP-C345 (All Destinations)		
21	Ref. No. Part No. Description 9 X-4943-510-1 PANEL ASSY, FRONT (US, CND) 9 X-4943-511-1 PANEL ASSY, FRONT (AEP, AUS)	Ref. No. Part No. Description 9 X-4944-529-1 PANEL ASSY, FRONT (US, CND) 9 X-4944-530-2 PANEL ASSY, FRONT (AEP, UK, AUS, E)		
	11 4-957-557-11 PANEL, LOADING	11 4-964-390-01 PANEL, LOADING		
	12 4-957-548-11 PLATE (FL), INDICATION	12 4-957-548-01 PLATE (FL), INDICATION		
22	* 72	* 72		

CDP-C245/C345 (US, CND Model) Difference Table

Page	CDP-C235/C335 (US, CND Model)	CDP-C245/C345 (US, CND Model)
23	Ref. No. Part No. Description * 104 4-957-555-01 SHEET, INSULATING 105 3-531-576-11 RIVET	Ref. No. Part No. Description

CDP-C741 (US, CND Model) Difference Table

Page	CDF	CDP-C235 (US, CND Model)		CDP-C741 (US, CND Model)
21	Ref. No. Part No. X-4943-51	Description 0-1 PANEL ASSY, FRONT	Ref. No.	Part No. <u>Description</u> X-4943-533-1 PANEL ASSY, FRONT
	11 4-957-560	-51 PANEL, LOADING	11	4-964-390-01 PANEL, LOADING
22	* 72 4-957-560	-51 PANEL, BACK	* 72	4-964-324-71 PANEL, BACK
23	* 104	-01 SHEET, INSULATING -11 RIVET		

CDP-C345 (E Model) Difference Table

Page		CDF	P-C235 (US Model)		CDP-C345 (E Model)
22	Ref. No.	Part No.	Description	Ref. No.	Part No. Description
55	* 73	3-703-244-00	BUSHING (2104), CORD	* 73	1-569-007-11 ADAPTER, CONVERSION 2P 3-703-571-11 BUSHING (S), (4516), CORD
	74	1-590-836-11		<u>1</u> 74	1-696-027-11 CORD, POWER
23	* 104	4-957-555-01	SHEET, INSULATING	_	
	105	3-531-576-11	RIVET		
	106	A-4649-656-A	MAIN BOARD, COMPLETE	106	A-4673-014-A MAIN BOARD, COMPLETE
	<u>1</u> 1901	1-423-553-11	TRANSFORMER, POWER	<u></u> <u>∧</u> S201 <u>∧</u> T901	1-572-675-11 SWITCH, POWER VOLTAGE CHANGE (E) 1-423-993-11 TRANSFORMER, POWER

CDP-C245/C345/C741 (Except E Model) Difference Table

Page	CDP-C235 (All Destination)	CDP-C245/C345/C741 (Except E Model)
23	Ref. No. Part No. Description ▲T901 1-423-553-11 TRANSFORMER, POWER (US, CND) ▲T901 1-423-554-11 TRANSFORMER, POWER (ÁEP, AUS)	Ref. No. Part No. Description ⚠ T901 1-423-872-11 TRANSFORMER, POWER (US, CND) ⚠ T901 1-423-992-11 TRANSFORMER, POWER (AEP, AUS, UK)

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Abbreviation

CND: Canadian model AUS: Australian model

ELECTRICAL PARTS LIST CDP-C245/C345/C741 (All Destinations) Difference Table

Page	CDP-C235	CDP-C245/C345/C741 (All Destinations)
29	Ref. No. Part No. Description ⚠74 1-590-836-11 CORD, POWER (US, CND) ⚠74 1-575-651-21 CORD, POWER (AEP) ⚠74 1-696-845-11 CORD, POWER (AUS) ⚠74 1-575-651-21 CORD, POWER (AEP) 3-756-520-11 MANUAL INSTRUCTION 3-756-520-21 MANUAL INSTRUCTION 3-756-520-31 MANUAL INSTRUCTION 3-756-520-41 MANUAL INSTRUCTION 3-756-520-61 MANUAL INSTRUCTION	Ref. No. Part No. Description ♠74 1-575-042-21 CORD, POWER (US, CND) ♠74 1-575-651-21 CORD, POWER (AEP) ♠74 1-696-845-11 CORD, POWER (AUS) ♠74 1-751-529-11 CORD, POWER (UK) 3-758-048-11 MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (AEP, UK, E) 3-758-048-21 MANUAL INSTRUCTION (ENGLISH) (US, CND, AUS) 3-758-048-31 MANUAL INSTRUCTION (FRENCH) (CND) 3-758-048-41 MANUAL INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (AEP) 3-758-048-51 MANUAL INSTRUCTION (ENGLISH, SWEDISH, FINNISH, DANISH) (AEP)
	* 4-958-473-01 INDIVIDUAL CARTON	* 4-964-766-01 INDIVIDUAL CARTON (C245:US, CND) * 4-964-767-01 INDIVIDUAL CARTON (C245:AEP, UK) * 4-964-768-01 INDIVIDUAL CARTON (C345:US, CND, AUS, E) * 4-964-769-01 INDIVIDUAL CARTON (C345:AEP, UK) * 4-964-771-01 INDIVIDUAL CARTON (C741) 1-467-123-11 REMOTE COMANDER (RM-D335) (C345) 4-959-044-01 COVER BATTERY (For RM-D335) (C345)

CDP-C345 (E Model) Difference Table

Page	CDP-C235 (US Model) CDP-C345 (E Model)		
26	Ref. No. Part No. Description * A-4649-656-A MAIN BOARD, COMPLETE	Ref.No. Part No. Description * A-4673-014-A MAIN BOARD, COMPLETE	
27		⚠S201 1-572-675-11 SWITCH, POWER VOLTAGE CHANGE	
29		⚠64 1-569-007-11 ADAPTER, CONVERSION 2P ⚠74 1-696-027-11 COARD, POWER ⚠T901 1-423-993-11 TRANSFORMER, POWER	

CDP-C245/C345/C741 (Except E Model) Difference Table

Page	CDP-C235 (All Destination)	CDP-C245/C345/C741 (Except E Model)		
29	Ref. No. Part No. Description ⚠T901 1-423-553-11 TRANSFORMER, POWER (US, CND) ⚠T901 1-423-554-11 TRANSFORMER, POWER (AEP, AUS)	Ref. No. Part No. Description ▲T901 1-423-872-11 TRANSFORMER, POWER (US, CND) ▲T901 1-423-992-11 TRANSFORMER, POWER (AEP, AUS, UK)		

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Replace only with part number specified.

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Abbreviation

CND: Canadian model AUS: Australian model

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Consumer A&V Products Company
Home A&V Products Div.

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Quality Engineering Dept.

CDPC245

Subject

DISC TABLE ROTATES SLOWLY - REPLACED ROTARY GEAR

SYMPTOMS

Disc table rotates slowly.

RESOLUTION

Replaced rotary gear B, operation restored to normal.

495728401

#66

GEAR, ROTARY B

CDPC245

Subject

DISC TABLE WON'T STOP - REPLACED M801

SYMPTOMS

Disc table rotates continuously and cd player wont' detect discs. Replaced flex cable and checked D801 sensor, player is still doing same thing.

RESOLUTION

Replaced Table motor assy and player restored normal operation. Repaired two units, CDPC245/CDPC345 with replacing M801.

A4660322A

M801

MOTOR, TABLE

CDPC245

Subject

DISK SKIPS INT. - REPL GEAR REF 66

SYMPTOMS

Table would try to move and then would stop. found gear ref# 66 had teeth bent or worn.

RESOLUTION

Replaced gear ref. 66.

495728401

66

GEAR LOTARY B

CDPC245

Subject

HUMMING NOISE FROM MACHINE - ADD WEIGHT(S) TO BU ASSY

SYMPTOMS

As per SBHFP0381, stated to add weight and screw to optic to eliminate noise. Works for some but not all. Noise originated from spindle motor assy X49175233. Hot glued to 2 weights 496297901 to left hand rear side of BU assy I cannot determine if this is a permanent fix or not, but it did eliminate the noise. Need to see if it affects skipping or if weights fall off.

RESOLUTION

As per our phone conversation, there has been some feedback that this weight mod doesn't work in all cases. As long as your solution stopped the noise and ultimately satisfied the customer I can't see a problem using the weights in this way.

496297901

N/A

COUNTERWEIGHTS

CDPC245

Subject

INTERMITTENTLY DOES NOT RECOGNIZE DISCS

SYMPTOMS

Intermittently, unit will not recognize disc. Occurs in shuffle mode or checking discs. Unit will load and chuck discs w/o problem. No problem

with alignment as describe in SB CSA13/#390. Turntable appears to rotate a bit too fast. Logic from disc sensor and photo interrupter is counting teeth for position information looks good. Turntable rotating too fast for CPU to recognize data, slowing turntable down by changing value of R458 to750 ohm and R459 to 1K each resolves problem. This changes reference voltage at IC451.

RESOLUTION

P/N for the 750 ohm resistor is 1-247-128-00. The P/N for the 1K ohm resistor is 1-249-417-11.

CDPC245
Subject
KSS240 BD BOARD, WRONG #

SYMPTOMS

When this board is ordered A4649433A to compliment the KSS240 optic it is the wrong board for this unit. There is no IC102 on the A side of the board. There is a totally different CN101 connector. Can you please explain why/send the correct board #

RESOLUTION

This is parts issue, I will forward this report to KCP. 4/4/95 - I have forwarded the two boards sent to me by G. Smith. I will wait for KCP's response. 6/14/95 - According to WRPC the correct P/N for the BD board would be A4649890A. KCP checked against the samples that were sent and the new lot of boards are the correct type.

A4649433A 152 COMPLETE BOARD

CDPC245			
Subject NO AUDIO			

SYMPTOMS

Had no audio output on either channel. Found input to line amp Ic501 only showing a small sawtooth wave in.

RESOLUTION

Resolder D/A converter IC103.

875235545

IC103

D/A CONVERTER

CDPC245

Subject

NO OPEN/MECH NOISE - CD MECH STUCK AGAINST TABLE

SYMPTOMS

Unit open and makes mech. moise. After opening case found CD mech stuck with table B.

RESOLUTION

After free mech away from table B.

492638301

52

TABLE B DISK

CDPC245

Subject

TRAY MOTOR SPINNING BACKWARDS - REPLACE TABLE MOTOR

SYMPTOMS

Ran into this problem 5 times in past 3 weeks. Removed tray motor. Old motor is installed with lable on motor facing up. If new motor is installed with label facing up, motor and tray will spin backwards. If the tray is spinning in the wrong direction the unit will not play the correct disc. Ex: if disc 5 is requested disc 2 may be played.

RESOLUTION

When replacing this motor, I installed it with label facing down so it spins the correct way. Replaced motor because of tray hitting the BU mech.

Tried resistor mod but it did not work. If the mod doesn't work, tray motor will usually fix the problem.

A4660322A

M801

DISC TABLE MOTOR

CDPC345

Subject

BU MECH POPPING OUT OF CAM GEAR IN THE UP POSITION

SYMPTOMS

BU mech came out of cam gear in the up position causing the door not to open and unit to jam up.

RESOLUTION

As per Tech Dept saying this doesn't happen, here is a record of one happening.

This unit WO# WH125136 is a dealer stock unit (Graffiti). Is it possible this unit was factory shipped with the BU mech in the down position, the BU popped out due to shipping in this position, the unit was sold with the mech already out of the U/D gear. The customer brought the unit home, tried it (plugged it in tried to play a disc), the gears rotated, the unit was returned - you got the unit with the BU up?

CDPC345

Subject

INCOMPLETE TURNTABLE MOVEMENT - SHAFT OF GEAR, REF#66, BENT

SYMPTOMS

After replacing IC401, R457, R458, R459 per SVC Bulletin, CSA13, the disc turntable still moved irregularly, demonstrated jerking movement.

RESOLUTION

The motor under the turntable used to drive the wormgear and gear (#61 X4943-479-1 and #66 4-957-284-01). The shaft of the gear #66 is bent too close to the wormgear. This bent shaft made the gear (#66) too tight to move regularly. Re-positioned gear shaft of #66 gear restored free movement and regular operations.

495728401 66 GEAR

CDPC345

Subject

NO PART # FOR FRONT FOOT - P/N IS X49445291

SYMPTOMS

There is no part number for the front foot of the CDPC345. Part X49435101 is (CDPC235) the front panel assy which appears to come with the front foot. If we order X49435101 we get the front panel for the CDPC235. There is not part # for the front panel of the CDPC 345.

RESOLUTION

We have contacted KCP for information on the availability of a part number and parts. The part number for the CDPC345 front panel assy is X49445291. Currently, there are seven pcs. avail.

CDPC345

Subject

CD DRAWER TAKES MINUTES TO OPEN - REPLACED IC451

SYMPTOMS

Drawer took several minutes to open. Found drawer would spin endlessly.

RESOLUTION

Unit had many problems. IC451 constantly outputting over 1 volt at pin 5/6. Replaced IC451 unit returned to normal.

Normal operating voltages at pin 5 and pin 6 are 0.3 and 0.1 VDC, respectively.

875917231 IC451 BA6191

CDPC345

Subject

CLICKING & KNOCKING WHEN CHANGING CD'S - REPL BRACKET ASSY

SYMPTOMS

As the cam gear turns and brings the bu bracket up a knock is heard. This knock causes the CD not to be chucked properly it will load the CD off center and jam up. The knock or clicking also causes the bu holder to bounce into position.

RESOLUTION

Replace the bracket gear assy. The knocking is coming from the main gear and the ud gear cam gear ref 119 where these two gears mesh together as the bu bracket is coming up. The problem discovered is that diatance between these two gears is too wide, this will cause it to knock the new bracket. The distance between the two posts appears to be too wide. The replacement part holds the gears slightly closer.

X49434781

114 BRACKET GEAR ASSY

HOWLING MECHANICAL NOISE COMING FROM INSIDE UNIT - HFP#381

SYMPTOMS

Loud howling noise heard from inside unit. but only on certain cd's and only on some tracks of those cd's. If you press lightly on spindle motor while it is turning the noise will increase.

RESOLUTION

Replaced defective spindle motor/ chassis assy to correct problem. This problem has been noted in some earlier models also.

Please try S/B HFP #381, it should work on all models using the KSS240A (or 390) FOP. This fix is for this whining noise problem.

M102

SPINDLE MOTOR ASSY

CDPC345

Subject

PLAYS ONLY 10 SECONDS OF ANY DISK - RESOLDERED SLED MOTOR

SYMPTOMS

Sled motor won't play past 10 seconds.

RESOLUTION

Sled motor neg. terminal breaks away from feed through to other side - resolder, unit works.

A4649610A 157 BD BOARD

CDPC345

Subject

TIMING APPEARS TO BE A PROBLEM - RESOLDERED MAIN BOARD

SYMPTOMS

The unit acts very erratic, i.e. the drawer opens fast or slow, timing seems off, but when done by hand (unpowered) timing is ok.

RESOLUTION

By inspecting the main board I saw a couple of solder spots that were missed or just slightly soldered. Resoldering cured problem.

CDPC345

Subject

TRAY MOTOR NOT LABELED OR WIRED CORRECTLY

SYMPTOMS

After replacing the tray motor with a new one the player would not work correctly, the tray would rotate back and forth and not recognize the cd in the unit.

RESOLUTION

Checking the old motor found, it mounted in the unit with the lable facing up and the positive terminal on the left, this turns counterclockwise. I installed the new motor the same way and it did not work. The new motor installed with label down worked correctly.

I checked the samples sent to the Tech dept. You're correct the new motor does spin in the opposite direction of the original motor. I have notified KC parts to check stock and take corrective action.

A4660322A M801 TRAY TABLE MOTOR

CDPC345

Subject

TRAY MOTOR SPINNING BACKWARDS - REPLACE TABLE MOTOR

SYMPTOMS

Ran into this problem 5 times in past 3 weeks. Removed tray motor. Old motor is installed with lable on motor facing up. If new motor is installed with lable facing up, motor will spin backwards and tray will not function properly.

RESOLUTION

When replacing this motor, I installed it with lable facing down so it spins the correct way. Replaced motor because of tray hitting the BU mech. Tried resistor mod but it did not work. If the mod doesn't work, tray motor will usually fix the problem.

A4660322A M801 DISC TABLE MOTOR

CDPC345

Subject

WHISTLING NOISE - ADD RTV BTWN SPINDLE MOTOR & BD BOARD

SYMPTOMS

A whistling noise (about 400HZ) manifests itself on certain cuts of disc (Goodbye Yellow Brick Road, Elton John, Polydor D103076). If you touch the optical block lightly, the noise disappears.

RESOLUTION

Remove the spindle motor from the BD board. Add a layer of silicone sealer (RTV) between the spindle motor and BD Board. Re-install the spindle motor, take care not to allow the base of the spindle motor to contact, or directly lay on the BD board during reassembly.

Adding the RTV silicone compound between the motor and BD board isolates the two parts. There is no vibration transfer from the motor and spinning disc, therefore, the whistling noise stops.

732206519

RTV SILICONE COMPOUND

Subject
WHISTLING NOISE

SYMPTOMS

Re: Vistain's complaint of whistling noise with this unit.

RESOLUTION

Better solution increase the tension of the spring holding the BU ass'y to its mount. This will also eliminate the whistling noise. This solution holds true for all cd mechs and is on file under another model number but I don't remember which one.