



## SECTION 05

# SPARE PARTS FOR CD / DVD & PHONO



# 05

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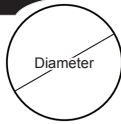
## → Belts

PLEASE READ ME!

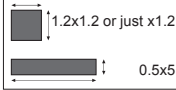
# BELTS

PLEASE READ ME!

Suit Cassette, Portable, Dictation machines, Personal Audio, 3in1, Turntable, CD, and maybe some Reel to Reel. For Video



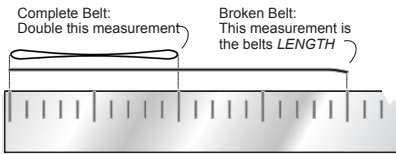
Cross Section Examples:



it is advised that you use only original part No's in section four. VCR COMPONENTS Please take care in measuring and selecting the correct size of belt. Extract and squeeze the belt together, measure its length then double it to give you the belts total length. Note: **Do Not Order using the Length value.** From the tables listed, read off the diameter. This is the value used in our codes. Choose the next size down if the belt is stretched. The thickness is a measure of the cross-section of the belt. If the belt is missing or damaged beyond recovery then you could duplicate the belt by running a piece of string around the mech' and use its length as a general guide. Please take advantage of our discount structure. The belts are available individually but are 10% cheaper if bought in bag quantities of ten (No mixed values).

### WHEN ORDERING QUOTE THE DIAMETER & THICKNESS ONLY

e.g. 195x0.5x5 195mmØ, 0.5x5mm thick. (612mm long) 80x1.2 80mmØ, 1.2mm thick. (251mm long)



Remember to allow for the old belt to have been stretched.

### SQUARE SECTION 0.8mm x 0.8mm

Length	Code
31 mm	10X.8
38 mm	12X.8
41 mm	13X.8
47 mm	15X.8
54 mm	17X.8
60 mm	19X.8
69 mm	22X.8
79 mm	25X.8
84 mm	27X.8
97 mm	31X.8
103 mm	33X.8
110 mm	35X.8
116 mm	37X.8
125 mm	40X.8
135 mm	43X.8
144 mm	46X.8
154 mm	49X.8
160 mm	51X.8
169 mm	54X.8
179 mm	57X.8
188 mm	60X.8
198 mm	63X.8
207 mm	66X.8
216 mm	69X.8
226 mm	72X.8
235 mm	75X.8



### SQUARE SECTION 1.0mm X 1.0mm

Length	Code
31 mm	10X1
38 mm	12X1
41 mm	13X1
47 mm	15X1
54 mm	17X1
60 mm	19X1
69 mm	22X1
79 mm	25X1
84 mm	27X1
97 mm	31X1
103 mm	33X1
110 mm	35X1
116 mm	37X1
125 mm	40X1
135 mm	43X1
144 mm	46X1
154 mm	49X1
160 mm	51X1
169 mm	54X1
179 mm	57X1
188 mm	60X1
198 mm	63X1
207 mm	66X1
216 mm	69X1
226 mm	72X1
235 mm	75X1
380 mm	122X1



### SQUARE SECTION 1.2mm X 1.2mm

Length	Code
31 mm	10X1.2
38 mm	12X1.2
41 mm	13X1.2
47 mm	15X1.2
54 mm	17X1.2
60 mm	19X1.2
69 mm	22X1.2
79 mm	25X1.2
*Clarion	26.5X1.2
84 mm	27X1.2
97 mm	31X1.2
103 mm	33X1.2
110 mm	35X1.2
116 mm	37X1.2
125 mm	40X1.2
135 mm	43X1.2
144 mm	46X1.2
154 mm	49X1.2
160 mm	51X1.2
169 mm	54X1.2
179 mm	57X1.2
188 mm	60X1.2
198 mm	63X1.2
207 mm	66X1.2
216 mm	69X1.2
226 mm	72X1.2
229 mm	73X1.2
235 mm	75X1.2
251 mm	80X1.2
267 mm	85X1.2
282 mm	90X1.2
298 mm	95X1.2
305 mm	97X1.2
314 mm	100X1.2
330 mm	105X1.2
346 mm	110X1.2
361 mm	115X1.2
**Suit Philips	116X1.25
380 mm	121X1.2
399 mm	127X1.2
427 mm	136X1.2

### SQUARE SECTION 1.4mm X 1.4mm

Length	Code
31 mm	10X1.4
38 mm	12X1.4
41 mm	13X1.4
47 mm	15X1.4
54 mm	17X1.4
60 mm	19X1.4
69 mm	22X1.4
79 mm	25X1.4
84 mm	27X1.4
97 mm	31X1.4
103 mm	33X1.4
110 mm	35X1.4
116 mm	37X1.4
***	37.3X1.6
125 mm	40X1.4
135 mm	43X1.4
144 mm	46X1.4
154 mm	49X1.4
160 mm	51X1.4
169 mm	54X1.4
179 mm	57X1.4
188 mm	60X1.4
198 mm	63X1.4
207 mm	66X1.4
216 mm	69X1.4
226 mm	72X1.4
235 mm	75X1.4
251 mm	80X1.4
267 mm	85X1.4
282 mm	90X1.4
298 mm	95X1.4
305 mm	97X1.4
314 mm	100X1.4
330 mm	105X1.4
346 mm	110X1.4
361 mm	115X1.4
380 mm	121X1.4
399 mm	127X1.4
412 mm	131X1.4
427 mm	136X1.4

\*\*\* CD loading belt Suit Sony, etc.

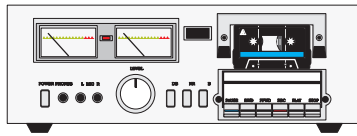
### SQUARE SECTION 2.0mm X 2.0mm

Length	Code
31 mm	10X2
38 mm	12X2
41 mm	13X2
44 mm	14X2
51 mm	16X2
57 mm	18X2
60 mm	19X2
69 mm	22X2
79 mm	25X2
84 mm	27X2
97 mm	31X2
103 mm	33X2
110 mm	35X2
116 mm	37X2
120 mm	39X2
125 mm	40X2
135 mm	43X2
144 mm	46X2
154 mm	49X2
160 mm	51X2
169 mm	54X2
179 mm	57X2
188 mm	60X2
198 mm	63X2
207 mm	66X2
216 mm	69X2
226 mm	72X2
235 mm	75X2
251 mm	80X2
267 mm	85X2
282 mm	90X2
292 mm	93X2
298 mm	95X2
305 mm	97X2
314 mm	100X2
330 mm	105X2
346 mm	110X2
361 mm	115X2
380 mm	121X2
399 mm	127X2





## FLAT SECTION BELTS 0.5x3mm



Please Read the **BELTS**  
On The Previous Page  
for Instructions!

Length	Code
97mm	31X.5X3
103mm	33X.5X3
110mm	35X.5X3
116mm	37X.5X3
135mm	43X.5X3
145mm	46X.5X3
154mm	49X.5X3
160mm	51X.5X3
169mm	54X.5X3
179mm	57X.5X3
188mm	60X.5X3
198mm	63X.5X3
207mm	66X.5X3
216mm	69X.5X3
226mm	72X.5X3
235mm	75X.5X3
251mm	80X.5X3
267mm	85X.5X3
282mm	90X.5X3
298mm	95X.5X3
314mm	100X.5X3
330mm	105X.5X3
346mm	110X.5X3
361mm	115X.5X3
380mm	121X.5X3

## FLAT SECTION BELTS 0.5x4mm

Length	Code
97mm	31X.5X4
103mm	33X.5X4
110mm	35X.5X4
116mm	37X.5X4
125mm	40X.5X4
135mm	43X.5X4
145mm	46X.5X4
145mm	49X.5X4
160mm	51X.5X4
169mm	54X.5X4
179mm	57X.5X4
188mm	60X.5X4
198mm	63X.5X4
207mm	66X.5X4
216mm	69X.5X4
226mm	72X.5X4
235mm	75X.5X4
251mm	80X.5X4
267mm	85X.5X4
282mm	90X.5X4
298mm	95X.5X4
314mm	100X.5X4
330mm	105X.5X4
346mm	110X.5X4
361mm	115X.5X4
380mm	121X.5X4



Length	Code
550mm	175X.5X4
565mm	180X.5X4
581mm	185X.5X4
593mm	189X.5X4
612mm	195X.5X4
628mm	200X.5X4
644mm	205X.5X4
659mm	210X.5X4

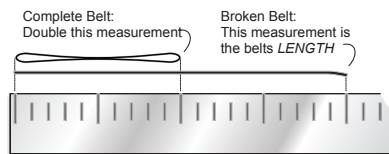
## FLAT SECTION BELTS 0.6x5mm

Length	Code
97mm	31X.6X5
110mm	35X.6X5
116mm	37X.6X5
125mm	40X.6X5
135mm	43X.6X5
145mm	46X.6X5
160mm	51X.6X5
169mm	54X.6X5
179mm	57X.6X5
188mm	60X.6X5
198mm	63X.6X5
207mm	66X.6X5
216mm	69X.6X5
226mm	72X.6X5
235mm	75X.6X5
251mm	80X.6X5
267mm	85X.6X5
282mm	90X.6X5
298mm	95X.6X5
314mm	100X.6X5
330mm	105X.6X5
346mm	110X.6X5
361mm	115X.6X5
377mm	120X.6X5
395mm	126X.6X5
415mm	132X.6X5
450mm	143X.6X5
471mm	150X.6X5
502mm	160X.6X5
534mm	170X.6X5
550mm	175X.6X5
565mm	180X.6X5
581mm	185X.6X5
593mm	189X.6X5
612mm	195X.6X5
628mm	200X.6X5
644mm	205X.6X5
659mm	210X.6X5
917mm	292X.6X5



## FLAT SECTION BELTS 0.5x5mm

Length	Code
377mm	120X.5X5
395mm	126X.5X5
415mm	132X.5X5
450mm	143X.5X5
471mm	150X.5X5
502mm	160X.5X5
534mm	170X.5X5
550mm	175X.5X5
565mm	180X.5X5
581mm	185X.5X5
593mm	189X.5X5
612mm	195X.5X5
628mm	200X.5X5
644mm	205X.5X5
659mm	210X.5X5
697mm	222X.5X5
739mm	238X.5X5
823mm	262X.5X5
917mm	292X.5X5



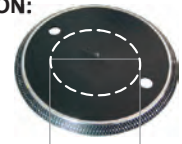
Remember to allow for the old belt to have been stretched.

## FLAT SECTION BELTS 0.6x6mm

Length	Code
179mm	57X.6X6
188mm	60X.6X6
198mm	63X.6X6
207mm	66X.6X6
216mm	69X.6X6
226mm	72X.6X6
235mm	75X.6X6
251mm	80X.6X6
267mm	85X.6X6
282mm	90X.6X6
298mm	95X.6X6
314mm	100X.6X6
330mm	105X.6X6
346mm	110X.6X6
361mm	115X.6X6
380mm	120X.6X6
385mm	122X.6X6
395mm	126X.6X6
414mm	132X.6X6
449mm	143X.6X6
471mm	150X.6X6
502mm	160X.6X6
534mm	170X.6X6
550mm	175X.6X6
565mm	180X.6X6
593mm	189X.6X6
612mm	195X.6X6
628mm	200X.6X6
644mm	205X.6X6
659mm	210X.6X6

### SUGGESTION:

Belt Missing?  
Measure the  
inner-platter  
diameter!  
This will give  
you an approx'  
Belt Diameter.  
Pick the next size down.



## CD LOADING BELT 38x1.6mm

Original Part No	Suit	Size	Code
4-927-	Sony	37.3x1.6mm	37.3X1.6
649-01	HD, HCDH, & Many others		



## SHARP CD SLED 18x.5x3

18x.5x3 APPROX

Code  
BLT117



## CAR AUTO-REVERSE 122x1

Popular belt used in many brands of  
car cassette like Eurovox, Clarion,  
and many others.

Code  
122X1



## PHILIPS CAR PLASTIC MECH

Belt to suit popular  
mech P1. See Fly  
wheels next page....

Code  
116X1.25

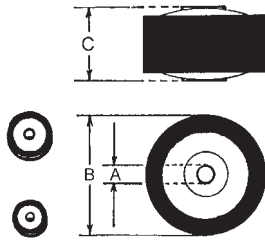




## → Tape Pinch Rollers

### NYLON PINCH ROLLERS

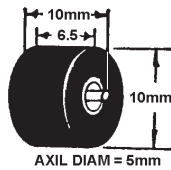
A	B	C	Code
1.5mm	9mm	6mm	CPR10
2mm	9mm	6mm	CPR14
1.5mm	10mm	6mm	CPR18
2mm	13mm	8mm	CPR24
2.5mm	13mm	8mm	CPR28



### CASSETTE PINCH ROLLER

Used in plastic decks where the shaft is a part of the roller.

Code  
CPR16



### PHILIPS PINCH ROLLERS

Plastic mech P1, P6, etc.  
L & R the same.

Code  
CPR42



### PANASONIC PINCH ROLLER ARM

Popular Japanese Cassette  
Mechanism OEM Part

Code  
RXP0052



### PANASONIC PINCH ROLLERS

Popular Japanese  
Auto-Reverse  
Mechanism OEM Parts

Type	Code
Left	RXL0124
Right	RXL0125



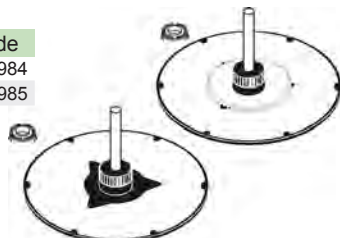
### PHILIPS FLYWHEEL

Plastic mech P1, P6, etc.  
With or Without gear.

Original Part No	Type	Code
4822 528 80984	With gear	FW984
4822 528 80985	Without gear	FW985

Belt to suit

Code  
116X1.25

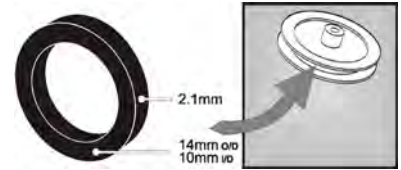


## → Tape Parts Misc

### CASSETTE IDLER TYRE

Suit Older mech's with  
jockey wheel type reel  
assemblies.

Code  
RT720



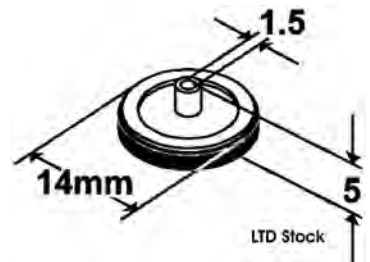
### IDLER TYRE

Suit	O/D	I/D	Width	Code
Nakamichi	32.95mm	28.50mm	1.9mm	RT3319
DT series				



### CASSETTE IDLER

Code  
CIA718



### CLARION CASSETTE IDLERS

Height - 3mm (Thick)  
Outside diameter - 22mmØ  
2.0mmØ CENTRE HOLE

Code  
CIA725

2.5mmØ CENTRE HOLE

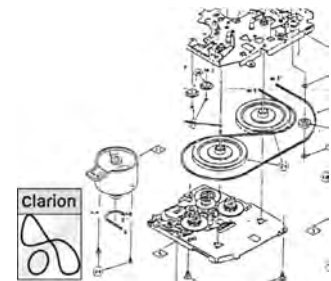
Code  
CIA726



### CLARION BELT KIT

25.6 x 1.2mm & 121.5 x 1.2mm

Suit	Code
430, 450, 650,	CK2
800, 900, 990,	
9000E, 9061,	
PU9200...	



### CLARION CAR STEREO

When replacing the motor  
SMA102101 with our substitute  
motor MMI-6S2L ( page 5-5 ) you  
will need a new pulley as the old  
one is not removable.

Suit Code  
PN9325D, etc. MP101



For Replacing Motor  
With Our 6S2L Motor



## → Tape Heads

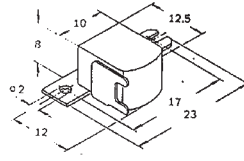
### AUDIO TAPE HEADS



### STEREO RECORD/PLAYBACK

FOR HI FI USE  
10KHz +/- 3dB

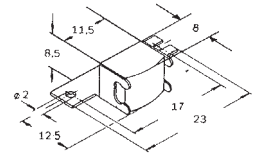
Code  
AH202



### AUTO REVERSE

(4 Track) Suit car  
stereo playback.  
10KHz +/- 4dB

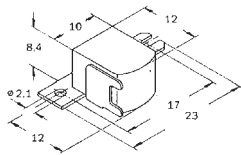
Code  
AH414



### MONO RECORD PLAYBACK

7KHz +/- 4dB

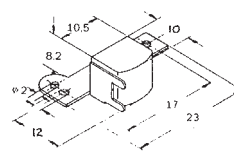
Code  
AH101



### STEREO RECORD/PLAYBACK

FOR HI FI USE  
10KHz +/- 3dB

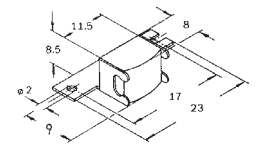
Code  
AH203



### AUTO REVERSE

(4 Track) Suit  
portables and  
Walkman™  
Playback. 10KHz  
+/- 4dB

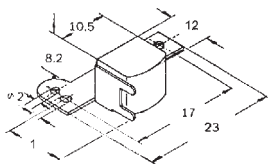
Code  
AH412



### MONO RECORD PLAYBACK

7KHz +/- 4dB

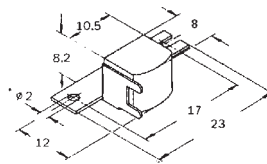
Code  
AH102



### STEREO RECORD/PLAYBACK

FOR HI FI USE  
10KHz +/- 3dB

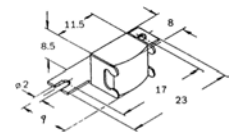
Code  
AH204



### AUTO REVERSE

(4 Track) RECORD/  
PLAYBACK  
SUITABLE FOR HI FI  
USE 12KHz +/- 3dB

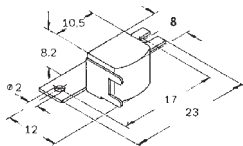
Code  
AH405



### MONO RECORD PLAYBACK

7KHz +/- 4dB

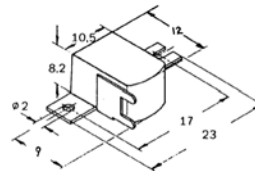
Code  
AH103



### SONY TYPE

Suit many Sony Rad/  
Cass recorders 10KHz  
+/- 3dB

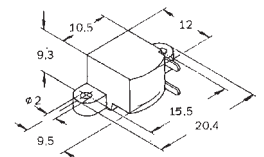
Code  
AH128



### AC ERASE HEAD

LOW IMPEDANCE  
APPROX 5Ω DC  
BLACK BODY

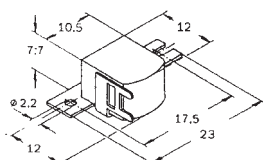
Code  
EH900



### 3 HEAD MONO

Record, Play & Erase in one.

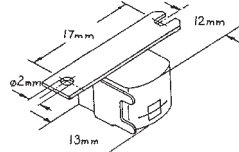
Original Part No	Equiv.	Code
WYO34AZ.	National	AH306



### UPSIDE DOWN TAPE HEAD

STEREO  
RECORD/  
PLAYBACK METAL  
BIAS 14KHz +/-  
3dB

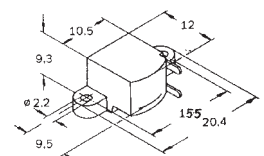
Code  
AH207



### DC ERASE HEAD

HIGH IMPEDANCE  
APPROX 400ΩDC  
WHITE BODY

Code  
EH910





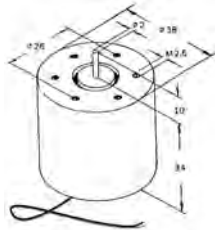
## → Motor Electronic Governor

### ELECTRONIC GOVERNOR MOTOR

General purpose replacement motors designed for audio drive equipment. Truly universal motors whose features include universal mounting, easy speed adjustment via a preset potentiometer accessible through the bottom, lower wow and flutter, longer life, less vibration plus a standard spindle diameter allowing you to use the original pulley. Simply fit motor and adjust for correct speed. Simple, convenient, quick and reliable. These motors use solid state speed control. **DO NOT** reverse the input voltage polarity as damage to the electronic regulator will result and therefore, not be covered under warranty. The EG510ED series has been superseded by the smaller EG500AD & EG530AD series. The specifications are identical for all 'EG' motors.

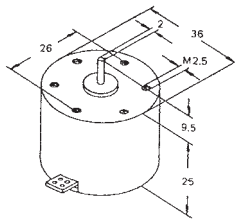
### MABUCHI EG510ED SERIES

Voltage	Direction	Code
6V	CW	510ED6F
9V	CCW	510ED9B



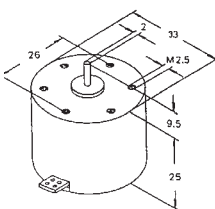
### MABUCHI EG500AD SERIES

Voltage	Direction	Code
6V	CW	500AD6F
6V	CCW	500AD6B
9V	CCW	500AD9B
12V	CCW	500AD2B



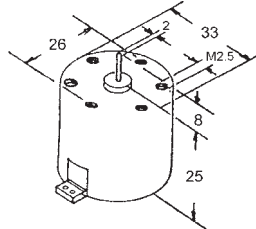
### MABUCHI EG530AD SERIES

Voltage	Direction	Code
9V	CW	530AD9F
9V	CCW	530AD9B
12V	CW	530AD2F



### MATSUSHITA MMI-6S SERIES

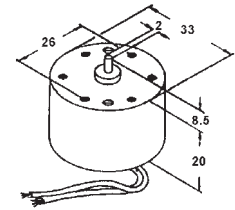
Voltage	Direction	Code
6V	CW	6S6R
6V	CCW	6S6L
9V	CW	6S9R
9V	CCW	6S9L
12V	CW	6S2R
12V	CCW	6S2L



### SANKYO MOTOR

Mechanical Governor Clockwise  
13.2 Volt Negative Chassis.

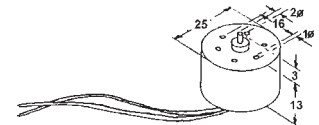
Code  
DFC2R



### MABUCHI MINI MOTOR

Used in walkman and other applications where a small motor is required. Uni-Directional.

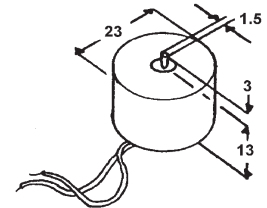
Original Part No Volts Code  
RF-300C-14270 1.3 to 2.1 WM300



### MATSUSHITA MINI MOTOR

Used in walkman and other applications where a 1.7V small motor is required. Uni-Directional.

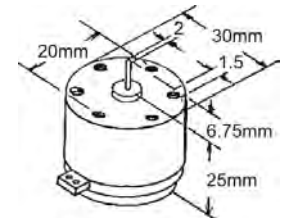
Original Part No Code  
HDN-4A3LD WM350



### CAR DECK MOTOR

Replacement motor designed to suit car audio units. Counter Clock Wise (Left) 13V DC Electronic governor Default Speed 2400 RPM (Adjustable)

Code  
EG520ED3B



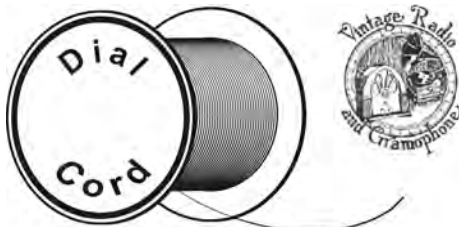
DECODING!		
<b>VOLTAGES:</b> 6 = 6 VOLTS 9 = 9 VOLTS 2 = 12 VOLTS	<b>ALL ARE:</b> F = FORWARD R = RIGHT CW = CLOCKWISE	<b>ALL ARE:</b> B = BACKWARDS L = LEFT CCW = COUNTER CLOCKWISE

## → Miscellaneous

### DIAL CORD

100 Metre reel of 0.5mm white woven nylon cord. Suit dial cord repair of old radios, etc.

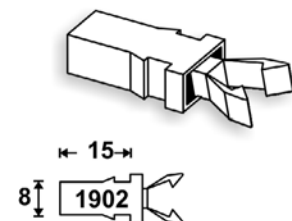
Size Code  
100M K665



### DOOR CATCH

**FRONT FLAP CLOSE**  
As found on front door flaps on VCRs, DVDs, etc.  
Push to open  
Push to close

Code  
DL1902





## → Motor Dual Speed Electronic

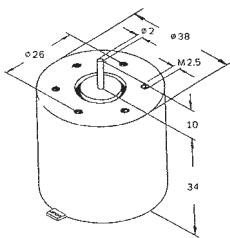
### DUAL SPEED ELECTRONIC MOTORS

The following motors are widely used in dual deck units with high speed dubbing. More specific circuits for each motor is not available as they will vary from unit to unit. The information that is available we have supplied below for reference only and may vary slightly from the unit you are working on. Substitution is for the keen experimenter only! Unfortunately the manufacturer does not supply any resistor values for the circuits below.

**NOTE!** Motors are stamped on the base with their pin connections, this may vary to what is indicated below. All our motors have been tested and the diagrams below are correct. The recommended course of action is to rewire up the new motor identically to the replaced motor, pin for pin.

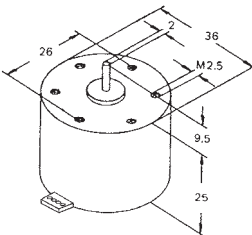
#### 510KD SERIES 1600/3200 RPM

Voltage	Direction	Code
9V	CW	510KD9F
9V	CCW	510KD9B



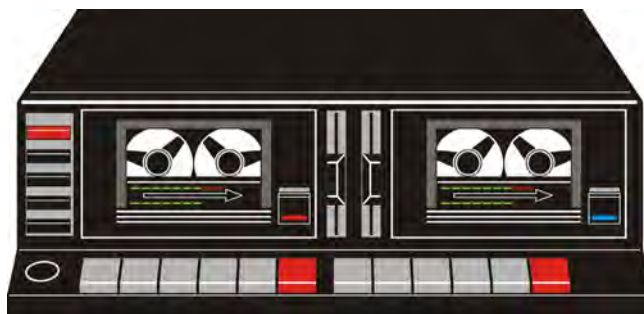
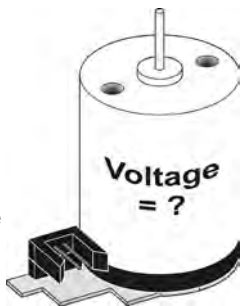
#### 500KD SERIES 1600/3200 RPM

Voltage	Direction	Code
9V	CCW	500KD9B
12V	CCW	530KD2B



### SPECIALISED MOTORS

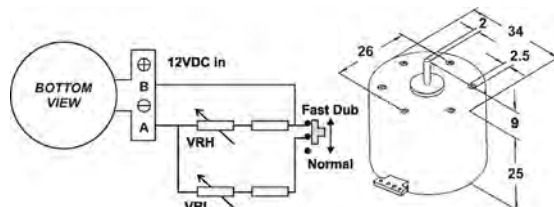
Some audio equipment may require a motor not found here. VCR "loading" motors and the like are also general purpose and substitutable in some audio units. (See 04) Unfortunately though, we don't have that information on the VCR specifications. So, if you discover a video motor that's suitable for a multi-CD player or something not VCR, please let us know so we can enter it in here and our data base. Thank You.



#### DUAL SPEED DUBBING MOTOR - 12V

Used in mechanisms with two motors. Standard spindle length. The motor label shown here is correct.

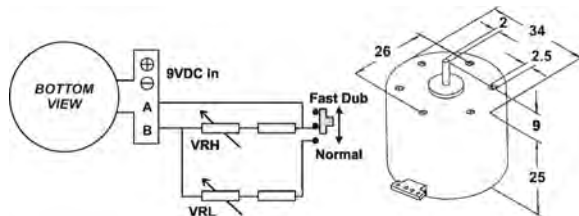
Voltage	Rotation	Code
12V	CCW (L)	6S2LWAK



#### DUAL SPEED DUBBING MOTOR - 9V

Used in mechanisms with one motor. Longer spindle length for two belt pulleys. The circuit is for a general guide only.

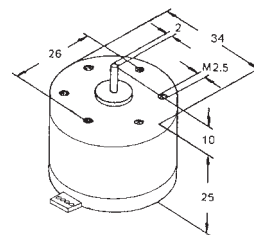
Voltage	Rotation	Code
9V	CCW (L)	6H9LWSK



#### SHU SERIES DUAL SPEED

Sanyo cassette motors.

Voltage	Direction	Code
9V	CCW	SHU9L
12V	CW	SHU2R
12V	CCW	SHW2L



<b>DECODING!</b> 		
<b>VOLTAGES:</b> 6 = 6 VOLTS 9 = 9 VOLTS 2 = 12 VOLTS	<b>ALL ARE:</b> F = FORWARD R = RIGHT CW = CLOCKWISE	<b>ALL ARE:</b> B = BACKWARDS L = LEFT CCW = COUNTER CLOCKWISE



## → Motor DVD & CD

### DVD & CD DRIVE MOTORS

Spindle height is the full height of motor.  
 Due to the nature of CD/DVD drive circuits being PWM, the drive voltage may be hard to determine. Generally: 3V for portables/car 6V are CD Spindles 9V is for DVD Players



### DVD SPINDLE MOTOR

#### RF310-32 D/V 9.0

Common spindle motor Higher voltage (9V) for use with DVD

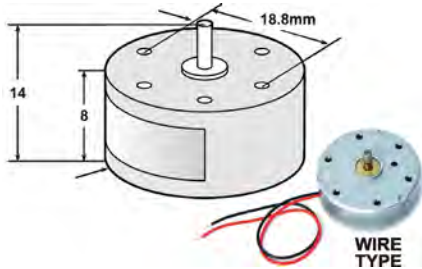
Original Part No	Spindle	D/V	Code
RF-310T-10470	32mm	9.0	MTR310-32



### PANASONIC TRACKING MOTOR

MDN1 XL3 PDAS RXQ 70A7

Code
MDN1XL3

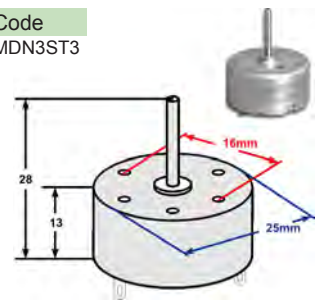


### DVD SPINDLE MOTOR - MDN3ST3

#### Panasonic DVD

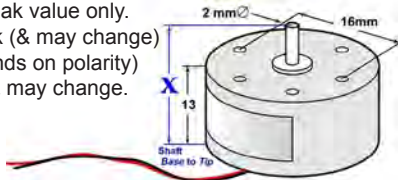
Spindle motor Popular Fault Similar to RF300

Original Part No	Body	Spindle	Code
MDN3 ST3 HS DS, RXQ0745B	24x8mm	28mm	MDN3ST3



### CD MOTORS - RF300

Low-Profile OEM Mabuchi motors as in CD/DVD Suit car audio, Mini-HiFi, portables, etc.  
 May substitute others with similar dimensions.  
 Drive Voltage (PWM) is a peak value only.  
 \*D/V is as listed on the stock (& may change)  
 Rotation is reversible (depends on polarity)  
 \*P/No. as on current stock & may change.



Original Part No	Spindle	D/V	Code
*RF-300C-11400W	19mm	3.0	RF300CA-19
*RF-300CA-11400	18mm	3.0	RF300CA-18
*RF-300CA-11400W	20mm	3.0	RF300CA-20
*RF-300FA-12350	20mm	5.9	RF300FA-20
*RF-300CA-11440	21mm	5.9	RF300-21
*RF-300FA-12350	28mm	5.9	RF300FA-28
MDN3 ST3 HS DS, RXQ0745B	28mm		MDN3ST3



### CD MOTORS - MDN4RA

OEM Replacement motors for CD & DVD Tracking, loading or spindle drive, etc. May substitute similar dimension motors D/V=1.0 to 6.0V (3.0V Nom) 2500-3200 RPM  
 \*Specifications & OEM-P/No. may change

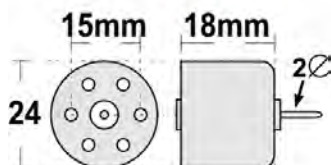
Original Part No	Spindle	D/V	Code
*MDN4RA-3ETA	30mm	6.0	MDN4RA-30
*MDN4RA-3NWAS	37mm	6.0	MDN4RA-37
*MDN4RA-3FTAS	42mm	6.0	MDN4RA-42



### CD MOTORS - RF310

Genuine OEM Mabuchi motors as used in many CD/DVD Suit Tracking, loading and spindle drive, etc. May substitute others with similar dimensions. Due to these applications using PWM to operate, Drive Voltage specification is a peak value. \*D/V is as indicated on the stock Rotation CW. (to the Right as viewed from above)

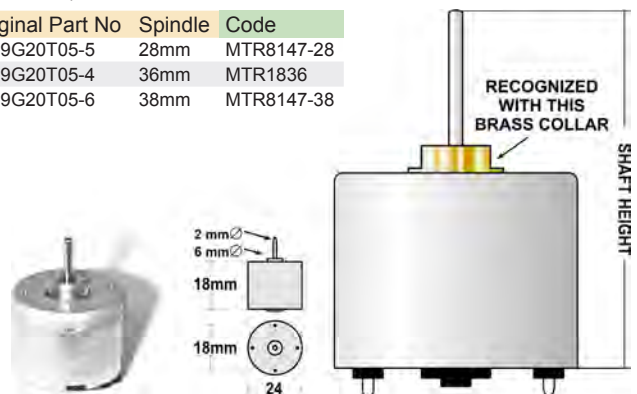
Spindle	D/V	Code
27mm	5.9	RF310-27
29mm	5.9	RF320-29
30mm	5.9	RF310-30
32mm	9.0	MTR310-32
38mm	5.9	RF310-38
43mm	5.9	RF310-43



### SUNKO - BRASS COLLAR

Spindle Motors by Sunko OEM As used in Sharp Mechanisms (With Laser RCTRH 8147 AFZZ)

Original Part No	Spindle	Code
MM9G20T05-5	28mm	MTR8147-28
MM9G20T05-4	36mm	MTR1836
MM9G20T05-6	38mm	MTR8147-38







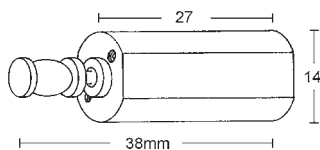
## → Motor DVD & CD

### CD SLED DRIVE MOTOR

Original Part No	Suit	Code
RMOTV0334AF00	Sharp and other brands.	NAA3B

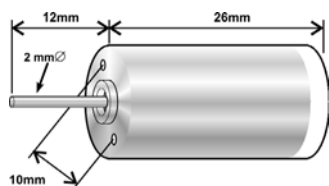
**BELT TO SUIT**  
NBLTH0117AF22 18x0.5x3.0mm

Code
BLT117



### CD TRACKING MOTOR

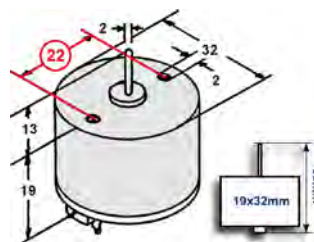
Original Part No	Suit	Code
BM371552	AKAI CDA405 + Other models + Other brands	MTR1552



### MULTI-DISC PLAYER MOTOR

Suit Pioneer PDM, etc.  
Loading motor and disc select motor.

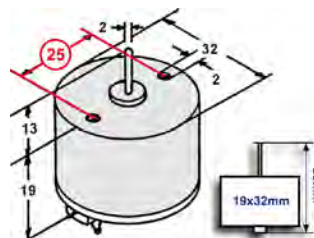
Original Part No	Type	Code
PYY1025	22mm	RF510-38



### MULTI-DISC PLAYER MOTOR

Suit Pioneer PDM, etc.  
Loading motor and disc select motor.

Original Part No	Type	Code
12VDC	25mm	MEN7E2T5 Matsushita.



### DECK CUSHION

#### PIONEER

Rubber cushion for securing laser CD/DVD mechanisms.  
9mmO/D 4mmI/D

Code
PEB1132



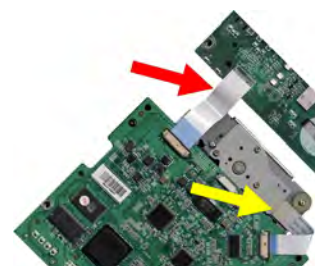
## → Membrane

### MEMBRANE CONNECTORS

#### FLAT WIRE LOOMS

Suit Sony and other brands  
Flat membrane wiring looms  
Exposed conductive ends Push into edge connectors

Specific OEM available & General replacement types of OEM or better quality  
See Below...



### MEMBRANE OEM

Pins	Length	Width	Original Part No	Code
12	110	13mm	1-575-001-11	FWL111
12	100	13mm	KSS240A Type	FWL12100
16	67	17mm	KSS213 Type	FWL1667
16	110	17mm	KSS213 Type	FWL16110
16	150	17mm	Sony Type	FWL16150
16	320	17mm	Sony Type	FWL16320
5	120	7.5mm	1-590-849-11	FWL4911
15	200	20mm	Philips, etc.	FWL15200
5	210	7.5mm	Aiwa carousel, etc.	FWL5210



### MEMBRANE REPLACEMENT

Pins	Length	Width	Original Part No	Code
24	70mm	12mm		FWL2470
24	200mm	12mm		FWL24200
24	240mm	12mm		FWL24240
24	240mm	12mm	Reverse Pins	FWL24240RV
12	100	13mm	KSS240A Type	FWL12100
12	110	13mm	1-575-001-11	FWL111
26	200mm	13mm		FWL26200
26	240mm	13mm		FWL26240
26	260mm	13mm		FWL26260



### MEMBRANE REVERSE PINS

"Reverse Pins" refers to: At one end the pins exposed are facing upwards The other end Facing Down thus pin 1 becomes pin 24 CHS E248204 AWM 20624 80C 60V VW-1 **24 Pin 12x240mm**

Code
FWL24240RV



## Motor DVD & CD

### SONY CD MOTOR - SUPPLIED WITH MECH'

Original Part No	Suit	Code
RF310T11400, X-4917-523-3	CDP190, C500/M, BU5BD3A, etc.	MEC5233



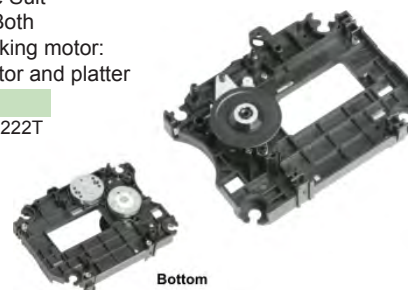
Spindle drive motor attached to frame.

### PANASONIC SPINDLE ASSEMBLY

Base+ 2x Motors & Spindle Suit Panasonic Technics DVD Both Motors But NO Laser! Tracking motor: MDN1AT3PDA Spindle motor and platter

Original Part No	Code
RXQ0749B, RXQ1028	RXQ1222T

#### NO LASER SUPPLIED



Bottom



# 05 AUDIO/CD/DVD & PHONO

05 AUDIO/CD/DVD/ & PHONO

## → DVD & CD Lasers

### ORIGINAL & REPLACEMENT ASSEMBLIES

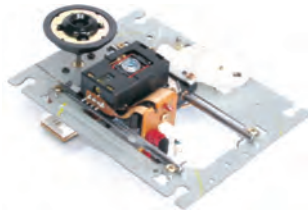


#### HITACHI LASER & MECH

##### MECHANISM COMPLETE

8 Red + 7 White

Code  
HOPM3A-MECH



##### LASER ONLY

Code  
HOPM3A

#### HITACHI DENON DVD LASER

Suit DVD-900, DVD-1000, HOP1120  
DVD-F100

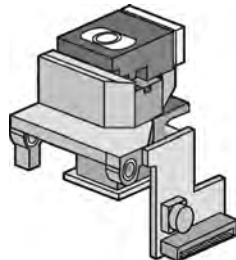
Code



#### JVC LASER

Original Part No Code  
OPTIMA6S, Use OPTIMA150S  
OPTIMA150S

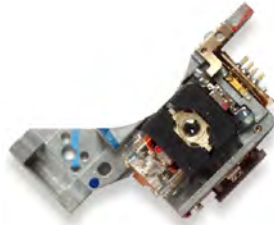
Code



#### JVC LASER

Suit Portable & Car CD Player

Code  
OPTIMA720



#### JVC LASER

Code  
OPTIMA725



#### JVC LASER

Code  
OPTIMA726A



#### LG GOLDSTAR LASERS

##### 6716 DPH 005B

Code  
PVR502W-S

##### 6716 DPH 005 A

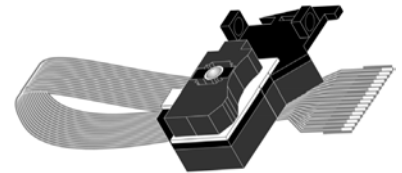
Code  
PVR502W-L



#### PIONEER PEA1030 PEA1179

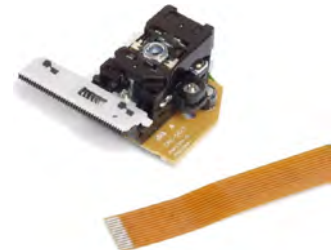
##### PIONEER LASER

Code  
PEA1030  
PEA1179



#### PIONEER PEA1291 LASER

Code  
PEA1291



#### PIONEER PEA1335 LASER

Code  
PEA1335



#### PIONEER CGY1023 LASER

##### OEM PICKUP

Code  
CGY1023





→ DVD & CD Lasers

**PANASONIC RAE0150Z & RAE0152Z LASER**

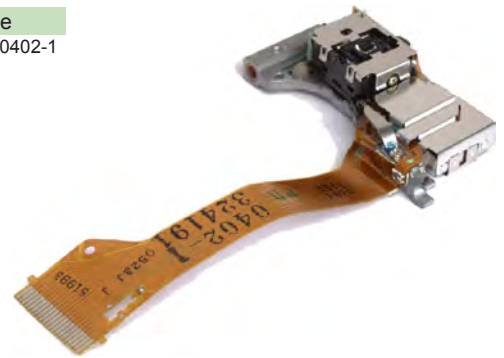
TRAVERSE DECK  
Complete assembly. 16 Pin  
Connector.

Code  
RAE0150Z  
RAE0152Z



**PANASONIC DVD LASER**

Suit Code  
DVD-RV20 VED0402-1



**PANASONIC RAF LASER**

COMMON TO JVC TOO  
Metal trolley version.

Original Part No Code  
RAF3020-A1, JVC RAF3020-A1  
QAL0279-001



**PHILIPS MARANTZ & NAD CDM12.3**

4822 691 30359  
Code  
CDM123



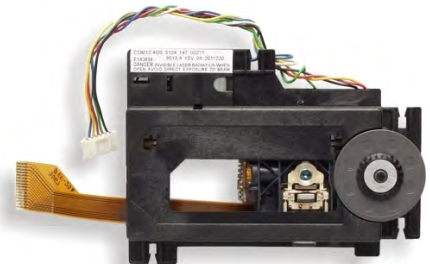
**PANASONIC RAF LASER**

Original Part No Code  
RAF3023A-1, RAF3024A-C  
RAF3023A-C



**PHILIPS MARANTZ & NAD CDM12.4**

Complete assembly & mechanism.  
Code  
CDM124



**PANASONIC RAF333AA LASER**

Laser sled OEM Optical Pickup

Code  
RAF3331A



**PHILIPS MARANTZ & NAD CDM12.1**

VAM1201 482269110615,  
VAM1202 930502220202  
Code  
VAM1202



**PANASONIC SODD110Z LASER**

TRAVERSE DECK Complete  
assembly. 16 Pin Connector.

Code  
SODD110Z



**PHILIPS MARANTZ & NAD CDM12.1**

Code  
VAM1202J





# 05 AUDIO/CD/DVD & PHONO

05 AUDIO/CD/DVD/ & PHONO

## → DVD & CD Lasers

### PHILIPS MARANTZ & NAD VAM2201

VAM2201/07  
Complete with motors  
and laser assembly. Laser  
SP-2 94VO

Code  
VAM2201



### SAMSUNG SOH-AAU LASER

Code  
SOH-AAU



### PHILIPS DVD

#### 22 PIN VERSION

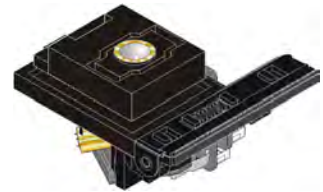
Code  
VAL3000-22



### SAMSUNG SOH-AP LASER

16 Pin Ribbon.

Code  
SOH-AP



### PHILIPS DVD

VAL6011-01, 24H9XJA,  
31042921990, 3140001,  
45H9XJA, DVD711, 732.

Code  
VAL6011



### SAMSUNG SOH-DP1U

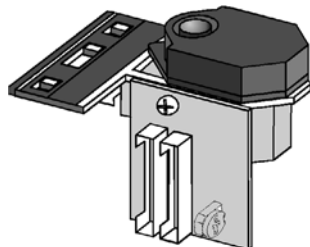
AH30-00010A, AH30-  
20001B, AH30-220001B,  
AH3020001B, SOH-DP1U

Code  
SOH-DP1



### SAMSUNG SOH-90 LASER

Code  
SOH90T4N



### SAMSUNG SOH-DS2A

AH97-00961A

Code  
SOH-DS2A



### SAMSUNG SOH-A1 LASER

Plug 1 8 pin Orange, Plug 2 8 pin White

Original Part No Code  
SOH-A1-8C10 SOH-A1



### SAMSUNG SOH-DSS-A

AK97-00166A

Original Part No Equiv. Code  
SOH-DSS-A SOH-DSS SOH-DSSA



### SAMSUNG LASER

Code  
SOH-AAN



### SAMSUNG SOH-DSS-B

AK97-00166B

Code  
SOH-DSSB





→ DVD & CD Lasers

### SAMSUNG SOH-DT2

AK97-00638A

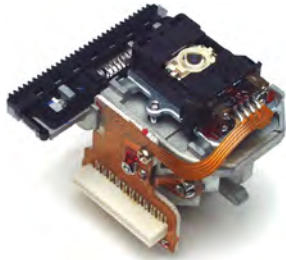
Code  
SOH-DT2



### SAMSUNG SOH-DV1

AH30-00008A

Code  
SOH-DV1



### SAMSUNG SOHAD3 LASER

Code  
SOH-AD3



### SANYO SF-91

#### COMPLETE MECHANISM

All parts including Laser and motors, etc.

OEM Code  
SF-91 MEC5967

#### LASER ONLY

6pin + 5pin plugs.

OEM Code  
SF-91 LP5967



### SANYO SF-91 LASER

8 pin + 5 pin plugs.

645-005-5966,  
M0773463 K,  
Laser SF91

Code  
LP5966



### SANYO SF-91 LASER MECHANISM

8PIN + 5PIN PLUGS

Entire mechanism

Motor, Laser, etc.

645-005-5966,  
M0773463 K,  
Laser SF91

Code  
MEC5966



### SANYO SF-90 LASER

8pin + 6pin plugs.

614 227 9069 Laser SF90

Code  
LP7906  
LP9069



### SANYO SF-92.5 LASER

Laser SF-92.5 Single 16 pin ribbon harness.

Code  
LP9965



### SANYO SF-HD6

Entire mechanism Motor, Laser, etc.

Code  
SF-HD6



### SANYO SF-P1 LASER

13 pin ribbon

Laser SF-P1

Original Part No	Code
614 239 1303	LP1303

2x 6pin Available See next block

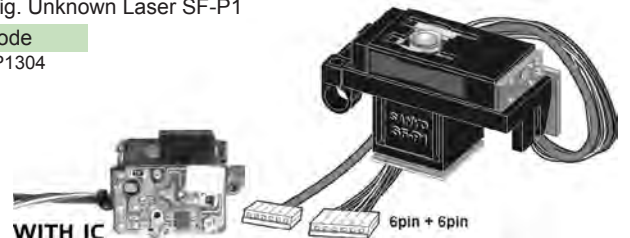


### SANYO SF-P1 LASER

6pin + 6pin

Orig. Unknown Laser SF-P1

Code  
LP1304



### SANYO SF-P100 MECHANISM

645 005 6444, 13 Pin connector small membrane type. Includes laser, Motors, etc. Laser SF-P100

Code  
MEC6444





# 05 AUDIO/CD/DVD & PHONO

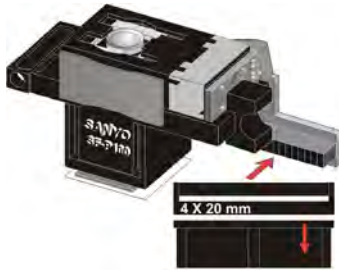
05 AUDIO/CD/DVD/ & PHONO

## → DVD & CD Lasers

### SANYO SF-P100 LASER

645 006 7983, 13 Pin connector Push-lock type.

Code  
LP7983



### SANYO SF-P100 LASER

16 Pin connector "Small Socket" type Membrane connect. Laser only Laser SF-P100

Code  
LP7984



### SANYO SF-P100 LASER

18 Pin connector Laser SF-P100

Original Part No Code  
620 022 12609 LP2609



### SANYO SF-P101 MECHANISM

15 PIN SF-P101

Code  
MEC101-15

16 PIN SF-P101

Code  
MEC101-16

8+5 PIN SF-P101

Code  
MEC10185



### SHARP LASER HPC

HPC-1MX

7 + 8 Pin

Code  
LHPC1MX



HPC-1LX

92LHPC1LXASY  
7 Pin & 8 Pin

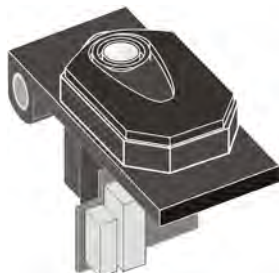
Code  
HPC-1LX

### SHARP LASER

RCTR H8136AF ZZ

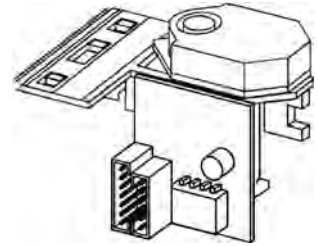
OEM 116 617 0001  
Suits CMS-R500CDX

Code  
LP8136



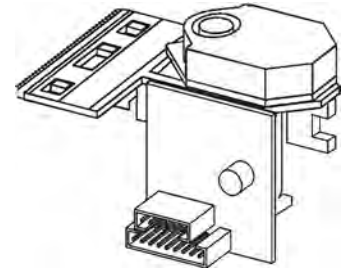
### SHARP AIWA DENON LASER

Original Part No Code  
SHARP RCTR8147AFZZ, LP8147  
AIWA DENON HPC-1C



### SHARP LASER

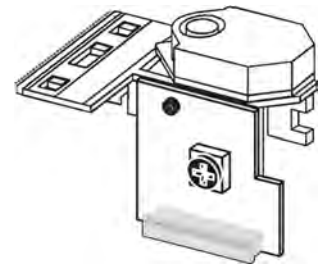
Original Part No Code  
RCTR8151AFZZ LP8151



### SHARP LASER

RCTRF8148AFZZ KCP-1H  
HB148AF 16 Pin

Code  
LP8148



### SHARP LASER

92LHPC1LASY HPC-1L  
5 Pin & 8 Pin

Code  
HPC-1L



### SHARP LASER

Kenwood: D40-1515-05 Laser only

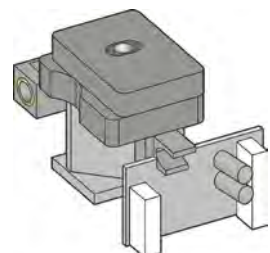
Original Part No Code  
OEM, RXD353 KCP-3H



### SHARP MITSUBISHI LASER

Suits NAD, Sharp & others.  
Sharp CD DX GFCD QTCD etc.  
Substitutes other lasers.

Original Part No Equiv. Code  
TAOHS-JP1, 125-617- LP-KP1  
TAOHS-KP1 0007,  
RCTRH- 8112-AFZZ





## → DVD & CD Lasers

### SONY BU-31 LASER

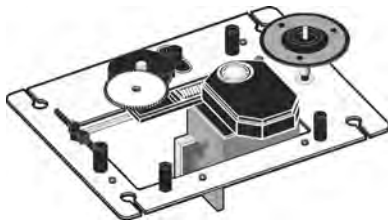
Original Part No	Code
A-4722-425-A	BU31



### SONY KSM210 LASER

Motors, gears, pickup, all complete.

Code
KSM210-1ADM
KSM210-1BAM
KSM210-BBM



### SONY KSM150

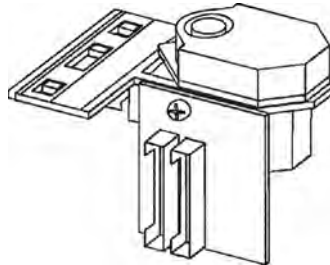
Motors, gears, pickup, all complete.

Original Part No	Code
KSM-150-BBM	KSM150B



### SONY KSS150 LASER

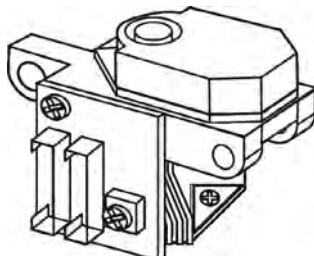
Code
KSS150A



### SONY KSS152 LASER

Unavailable. Substitute supplied From Toshiba.

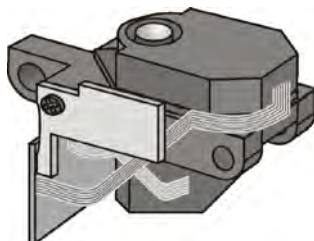
Original Part No	Code
KSS-152-ARP	TOPH7833



### SONY KSS153 LASER

White plug 8 pin & Red plug 8 pin 18194 671

Code
KSS153A



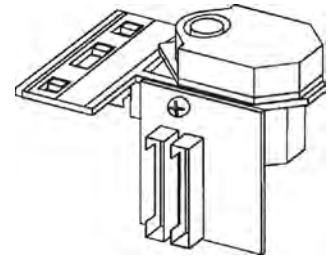
### SONY KSS210 LASER

TYPE A standard

Original Part No	Code
KSS-210-ARP	KSS210A

TYPE B High gain

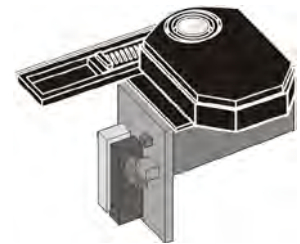
Original Part No	Code
KSS-210-BRP	KSS210B



### SONY KSS212 LASER

8 pin Red socket 8 pin white socket

Code
KSS212A
KSS212B



### SONY KSS213 LASERS

16 pin connector for membrane type cable. Colour may be black, white, cream, etc.

Code
KSS213A
KSS213B
KSS213C
KSS213E
KSS213V

Other Versions Available - See following...



### SONY KSS213 LASERS

16 pin connector for membrane type cable. As A/B/C/E but with a bracket on laser head.

Code
KSS213D
KSS213F

Other Versions Available - See above...



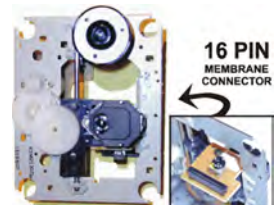
### SONY KSM213-CCM MECHANISM

Original Part No	Suit	Code
21871SE455	AC720, EF20,	KSM213CCM

LASER ONLY

Code
KSS213C

NOTE: ECM Version below.



### SONY KSM213-ECM MECHANISM

Original Part No	Suit	Code
A-3328-816-A	HCDGRX40, MHCXRD3	KSM213ECM

LASER ONLY

Code
KSS213E

NOTE: CCM Version above.



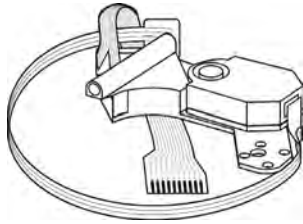


## → DVD & CD Lasers

### SONY KSS-160 162 220 261 LASER

Will substitute for some other P/ No's. (Not "B")  
Orig. KSS220A Or KSS160A, KSS162A

Code  
KSS220A  
KSS261A



### SONY KSM360A-BM/DM MECHANISM

With Standard Motor 29 Pin Connector.

Code  
KSM360ADM  
**Direct Drive**  
DC Brushless motor. 26 Pin Connector.

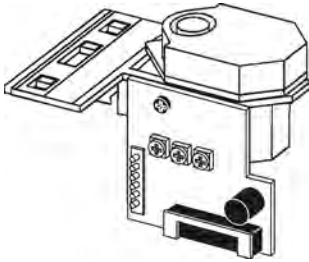
Code  
KSM360ABM



### SONY KSS240 LASER

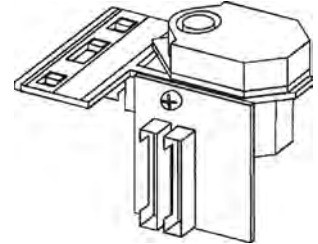
Suit modern Sony units and many others.

Original Part No Code  
KSS-240-ARP KSS240A



### SONY KSS480 LASER

Code  
KSS480A



### SONY KSS313 LASER

Pins Code  
17 KSS313A



### SONY KSS520 & KSS540

Original Part No	Suit	Code
8848 4020 2, 8848 4020 8	CDX2100A	KSS520A
8848 3282 1		KSS540A



### SONY KSS320B LASER

D40-1515-05

Code  
KSS320B



### SONY KSS542 LASER

15 Pin Connector.

Original Part No Code  
25394, SB213 KSS542A



### SONY KSS330 KSS331 LASER

Suit Sony Walkmans

Original Part No	Code
	KSS330A
	KSS331A
1486A, SC350	KSS331C



### SONY KSS710 LASER

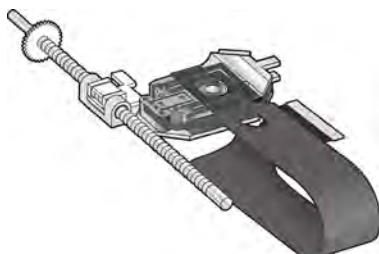
Suit Code  
CD Stackers, Magnavox, KSS710A  
Onwa, CDC



### SONY KSS333 LASER

Suit Sony Walkmans.

Code  
KSS333A



### SONY KSS720 LASER

Code  
KSS720A







## → DVD & CD Lasers

### SONY DVD LASER

882008103 882008109,  
A6062397A KHM220JIRP1  
**LASER & MECHANISM**

Suit Code  
DVPS530D, etc. KHM220AAA



### SONY DVD LASER

882014504, A6062706

Code  
KHM250AAA



### SONY DVD LASER

KHM270AAA, A6062709A, DVPNS415

Code  
KHM270AAA



### SONY DVD LASER

KHM 280 AAA, KHM 280 AA, 8820 2100 2

Code  
KHM280AAA



### SONY DVD LASER

Code  
KHM310AAA



### SONY DVD LASER

**MECHANISM** Laser, Motor, etc.

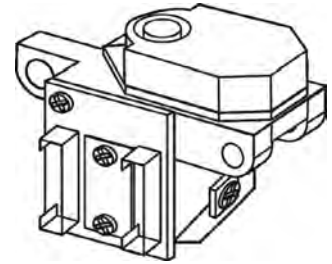
Code  
KHM313AAA



### TOSHIBA LASER

Suit some Toshiba.

Code  
TOPH7833



### YAMAHA CD LASER

JP3 Laser is NLA. This LP-JP3 is a substitute laser, supplied with a Yamaha Modification Instruction Sheet.

Code  
LP-JP3



## → Minidisk Lasers

### SONY MINI-DISK LASER

Personal Player Type 7 pin connector.

Original Part No	Code
X-4946-311-1,	LP3111
DAX-01, DAX-11	



### SONY MINI-DISK LASER

Original Part No	Suit	Code
X4952-506-1,	D-EJ715	LP5061
DAX-23E		



### SONY MINI-DISK MECHANISM

Full mechanism with laser & motors, etc.

Original Part No	Code
A4672541A	KMS260B





## → Blank Media and Cleaners

### CD & DVD DISC SURFACE REPAIRER

#### HAND OPERATED CLEANING DEVICE

Insert scratched disc, Apply the special fluid Close and turn the handle! Repairs general light duty scratches that may hinder correct playing of both DVDs, CDs and software too. Two types of cylinder rollers one for surface repair and another for general cleaning.



Code  
PC7091

#### REPLACEMENT PARTS

One of each roller Plus Cleaning fluid

Code  
RP7091R



### RADIAL CD & DVD CLEANING KIT

Non-scratch chamois. Simply insert CD or DVD Spray some cleaner fluid Then turn the handle ! A quick clean solution

Code  
HL607



### ADVANCED CLEANING CLOTH

#### NO-SCRATCH CLOTH

Special material cloth for cleaning opticals like camera and laser lenses, glasses, etc. Non-abrasive cleaning of plastics like CDs, DVDs, Screens, etc. No lint. No residue.

Size Code  
150x150mm CLN1515

#### ISOPROPYL ALCOHOL

Type Code  
Bottle 20ml CS500  
Squeegee CS505



#### SOME CLEANING ADVICE

Hold the CD/DVD from the edge and a finger in the centre hole Dip the cloth into cleaning fluid or spray fluid onto the CD/DVD Always wipe from the centre to out, rub vigorously if necessary **DO-NOT** wipe in concentric circles as even microscopic scratches created in the direction of the laser read may cause jumping.

### CLEANING SWAPS MORE SEE SECTION 14 SERVICE AIDS...

#### CHAMOIS TIPS™

Ultra-Clean flat swab for Video Heads & Optical pick-ups.

Code  
CC50



#### COTTONTIPS™

Pharmaceutical grade extremely soft, absorbent, rigid shaft.

Description Code  
Single ended CT100  
Single ended CT5000  
Double ended CT2000

#### DAI-1CHI 75mm CHAMOIS SWAB

High quality synthetic chamois tipped with 45° angled shaft. Gives easy reach, non-abrasive cleaning for video heads, etc. Approx. 75mm length

Code  
VCS10



#### DAI-1CHI COTTON BUDS

Ridged wooden shaft white cotton tipped

Code  
ACS100



#### DAI-1CHI FOAM TIP

Ridged wooden shaft Tipped with a sponge Foam applicator.

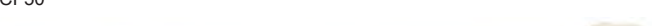
Code  
VCS20



#### FOAMTIPS™

Lint-free non-abrasive cellular urethane cleaning swabs.

Code  
CF50



### AUDIO / VIDEO HEAD CLEANER

#### RF CHEMICAL TECHNOLOGY

Fast drying solvent for use on magnetic tape heads to maintain peak performance. Clean sharp images. Clear sound reproduction.

Size Code  
250ml/175g RF60

Highly flammable. Send by road transport only.



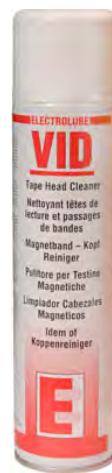
### AUDIO / VIDEO HEAD CLEANER

#### ELECTROLUBE VID

For use on all magnetic tape heads Quick drying, leaving no residue Good plastics compatibility 400ml 270g

Size Code  
100ml VID400M

Contains Pentane. Send by Road Transport only.



### SECTION 14



## → Service Aids & Tools

### CD & DVD & BD LASER LENS CLEANING DISK

#### DVD-LENSCLENE

Cleans optical laser lens, restoring premium audio and visual quality, etc. Also includes DVD tests: Sound effect test Surround sound test Picture colour test Sound & Colour test Premium product from AF International (UK)

Code  
DVD000



#### CD AUDIO

Cleans CD, DVD and Blu-ray. No test image, CD audio only.

Code  
HN3103

### LASER POWER METER

#### CD DVD BLURAY TEST KONIG OF GERMANY

Suitable for the service on CD, DVD, Blu-ray laser disc players. A narrow tiltable probe can measure all typical helium-neon & LED type lasers. Integrated load simulation for laser diode power supply. Measuring ranges : 0.3mW, 1mW and 3mW. Wavelength : Switchable 33nm, 750-820nm. Batteries : 2x1.5v batteries (type SUM-3 1.5V).

Code  
LPM5673



### TECHNICS TEST DISK

This test disc is unique in that it has measured "scratches" for assessing a player's ability to track poor quality compact discs. No guessing.

- Track 1 1KHz reference
- Track 2 L+R 0 dB
- 3-8 Interruption in information layer From 0.4mm to 0.9mm
- 9-15 Black Dot at read out side tests From 0.3mm to 0.9mm

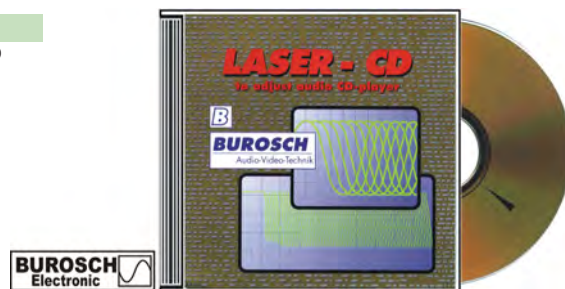
Original Part No Code  
SZZP1054C CDT016



### TRACK & FOCUS OFFSET/GAIN ADJUST

This CD is made in Germany and is DDD. With instructions. 78 min, 45 tracks, of 1KHz 0dB Sine wave with intentional errors to test and align a CD players error tracking & gain. Error Area in Information Layer 0.2mm to 3mm in 0.1mm steps Black line on readout side 0.2mm to 3mm in 0.1mm steps. Save time and effort in CD laser assessment and adjustment. Instruction booklet gives you detailed explanations with diagrams and helpful references to assist you in making the most from this handy test device.

Code  
LASERCD



### SOUND LEVEL METER

#### LUTRON DIGITAL MEASUREMENT

This unit is designed to meet IEC651 type 2 testing standards. A premium audio level instrument Precision calibrated (Certified) with A & C Weighting (Filter), Fast/Slow time response with Hold. Large 3½ Digit LCD Numeric Display 3.5mm output to analyzer, etc. Camera stand mount socket Includes a plastic carrying case Range: 80dB, 100dB, 130dB max Flat F' Range: 31.5Hz - 8KHz size: 225x70x28mm

Code  
SL4011

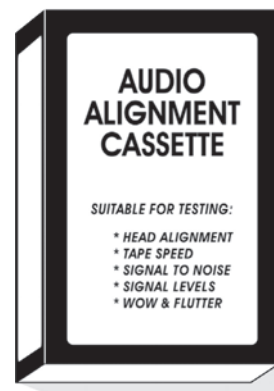


### AUSTRALIAN MADE TEST CASSETTE

The AAC9 has been produced to assist both the hi-fi enthusiast and the tradesman. It offers a range of tests to determine and correct faults in cassette decks. These tests can be performed without technical knowledge or costly test equipment. For the tradesman this tape can be used for fault diagnosis so as not to risk damage to proper alignment and test cassettes.

- |         |  |
|---------|--|
| Minutes | Contents   |
| 1-6     | 1KHz sine wave   |
| 6-12    | 5KHz sine wave   |
| 12-18   | 2K5Hz sine wave suppressed for 10 seconds every 50 seconds |
| 18-24   | 0.2 second beep every 10 seconds                           |

Code  
AAC9





# 05 AUDIO/CD/DVD & PHONO

05 AUDIO/CD/DVD/ & PHONO

## → Blank Media and Cleaners

### RECORDABLE MINI DISC

For Recording & Playback TDK. Made In Japan. Hard Cover.

Time	Brand	Code
80 min	TDK	MD80

Brand may change.



### TDK "MUSIC" CD-R

"For Consumer" CD-R disks.

Time	Code
80 min	CDR900

Brand may change due to stock



### CD-R & CD-RW

#### CDR/CDRW JEWEL CASED SINGLES

For Audio &/or Data recording Includes standard storage case

Description	Brand	Code
CDRW Standard	TDK	CDRW100
CDRW 1-12x Speed	TDK	CDRW101
CDRW Rewriteable	Verbatim	CDRW102



### CD-R BULK

Description	Brand	Code
CDR Gold Jewel x10.	TDK	CDR300
CDR Printable Label x50	NoName	CDR501



### DVD±R/RW BLANK MEDIA



#### DVD DUAL LAYER

Description	Brand	QTY	Code
DVD+R Dual-Layer	Verbatim	1	DVD400
DVD-R Dual-Layer	Verbatim	1	DVD600

#### DVD MINUS

Description	Brand	QTY	Code
Mini DVD-R	TDK	1	DVD102
Mini DVD-RW	TDK	1	DVD103
DVD-R Slim Cased	TDK	10	DVD501
DVD-R 1-16x Spindle	TDK	10	DVD503
DVD-R 25 Spindle	IMATION	1	DVD510
DVD-R Spindle	TDK	50	DVD506
DVD-R Printable	NoName	50	DVD700
DVD-RW	MAXELL	1	DVD101
DVD-RW Rewriteable	TDK	5	DVD505

#### DVD PLUS

Description	Brand	QTY	Code
DVD+R Standard	Verbatim	1	DVD302
DVD+RW Rewriteable	TDK	1	DVD305
DVD+RW Rewriteable	Verbatim	1	DVD303
DVD+R 1-16x Spindle	TDK	10	DVD703
DVD+R Spindle	TDK	50	DVD706
DVD+RW Rewriteable	TDK	5	DVD705

#### DVD RAM DISCS SINGLES

Description	Brand	QTY	Code
DVD Ram 240 Min	TDK	1	DVD403

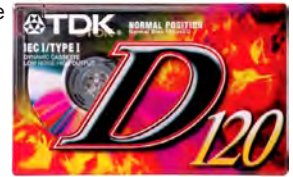
### BLU-RAY

Description	Brand	QTY	Code
Blu-Ray R 25Gb	TDK	1	DVD107
Blu-Ray R 50Gb	TDK	1	DVD109
Blu-Ray RW 25Gb	TDK	1	DVD108

### AUDIO CASSETTE TAPES

High-Grade TDK Deluxe Cassette Higher performance Long term storage

Time	Code
60 min	TDK-D60
90 min	TDK-D90
120 min	TDK-D120



TDK will always be supplied unless stock is Not available.

### HEAD CLEANER

Cassette tape with cleaning cloth tape. Drip cleaning fluid Then run to clean head and tape path Includes fluid

Code
HL101



### MICROCASSETTES

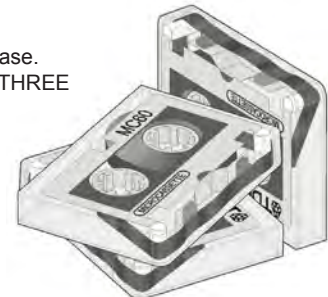
As used in Dictation & answer machines, etc. Brand may change.

30min SP each side.

Each in a plastic protective case.

ORDER ONE TO RECEIVE THREE

Code
MC60X3



### DAT - DIGITAL AUDIO TAPE

High Performance Digital Recording. Made in Japan. Brand may change.

Time	Code
60min	DA-RXG60
90min	DA-RXG90



### BLANK VIDEO CASSETTES

Description	Time	Code
VHS Maxell	180 min	ME180GX
VHS TDK	180 min	EHGE180
Super-VHS	180min	SVHS240
VHS-Compact	30min	VHSC30
Sony 8mm	85min	V8085
Mini-DV	90minLP	DVC090
	60minSP	
Mini-DV	120minLP	DVC120
	80minSP	
Mini-DV HD	94minLP	DVM63HD
	63minSP	





## → Media Storage Cases

### CD SLEEVES

#### PAPER ENVELOPE

QTY	Code
50pcs	CDSPP100

#### PVC SLEEVE

QTY	Code
100pcs	CDS100

See Section 16 COMPUTER More available



### CD PLAYER CARRY CASE

Polyurethane Leather. Tough outer padding. Two zipped compartments. One for 12 CDs and their in-lays, the other the CD player with cable access. Shoulder strap, carry handle, belt clip or bum bag.



Code
CDP12B

### 12 CD & DVD STORAGE WALLET

6 sleeves, holds 12 CDs. New, soft feel black korvett microfibre cover that is durable & water resistant. Zipper & carry strap. Padded stiff protect inlay.



Code
CDW12B

Style may change.

### 48 CD & DVD STORAGE WALLET

12 sleeve, double height holds and protects 48 CDs. New, soft feel black korvett microfibre cover that is durable & water resistant. Zipper & carry strap. Padded stiff protect inlay.



Code
CDW48B

Style may change.

### 96 CD & DVD ALBUM

High quality and a durable deluxe build. Holds up to 96 CD or DVD in protective sleeves. Zips-up. Carry handle. Weather resistant, tough.



Code
CD96B

Style may change.

### CD HARD COVER STORAGE

SEE SECTION 16 COMPUTER  
Comprehensive range available  
Carry large quantities of CD/DVD  
Please see computer section 16  
COMPUTER

#### FIRM PLASTIC ZIP-CASE

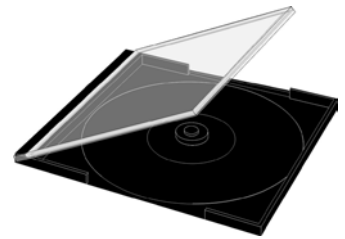
Holds	Code
24x	CDH24GG



### CD JEWEL CASE

#### COMMON JEWEL CASE

Colour	Code
Black	JWL1B
Clear	JWL1C



BUY IN BULK AND SAVE!  
PLEASE ENQUIRE

### POLYCARBONATE CASE

Special type opaque non-breakable CD case Suit transporting in Backpacks or post Standard CD sized Never break again!

Code
MK31C



### MORE CD & DVD COVERS

SEE SECTION 16 COMPUTER  
Comprehensive range of CD & DVD Covers, etc.

Too many to list here See Section 16 (PC) COMPUTER



See Computer Section 16 COMPUTER

### MINI DISC RACK 20

Holds Twenty MDs  
Stackable design for locking as many racks together as you require!  
Black plastic.

Code
MDR20



## → Adaptors and Converters

### MP3 & COMPACT DISC CASSETTE ADAPTOR

For connecting a portable Disc or Mini-Disc to your car tape deck.

Code
CA747

BOTH TOGETHER  
Packaged Kit.

Code
CA706

### CAR POWER ADAPTOR

Code
CA709





# 05 AUDIO/CD/DVD & PHONO

05 AUDIO/CD/DVD/ & PHONO

## → Audio Adaptors / Mixers

### RACK MOUNT MIXERS

#### PROFESSIONAL GRADE

Spanish branded "Work" 1U Rack Mount 19" Balanced/unbalanced Phantom power, etc. Premium reliability

Type	Code	SEE SECTION 06 SPEAKERS
6CH	MX61	Full details available See "Work"
6CH	MMX60	www.equipson.es



### DIRECT BOX

#### PROFESSIONAL GRADE

Single box solutions On stage pro set-ups Compact metal cabinet

#### GROUND-LOOP

Dual 1/4" I/O

Code  
HEB100



#### MIC PREAMP

XLR & 1/4" I/O

Code  
MQS51



#### MIC SPLITTER

XLR 1/2xO passive

Code  
MQS31



#### PHANTOM POWER

XLR Injects 48V

Code  
PPS100



#### RCA → BALANCED

Stereo injector

Code  
MQS75

SEE SECTION 06... SPEAKERS

## → DJ Mixer

### MINI-STEREO DJ MIXER

#### 5 INPUT STEREO MULTIMEDIA MIXER DUB AUDIO FOR VIDEO OR DJ - PORTABLE

This quality built mini sized audio mixer is comprehensive enough for applications. Audio dubbing in home movies or home studio. Compact metal box. Low noise design. 6.35mm headphone socket with volume Headphone monitors main output only Stereo LED VU meter Microphone talk over mute switch Cross fader between channel A and B Hi gain output suits most amplifiers Desk standing or console mountable 330x122x39mm 12VAC plugpack

Code  
RYM600



## → Phono Accessories

### PHONO INPUT PREAMP

#### RIAA EQ FOR AUX IN

Miniature Active Add-On Phono pre-amplifier RIAA Stand alone 70x40x120mm Metal Box. Screw mounts. Magnetic cartridge in Line level output. Suit upgrading modern home theatre receivers that don't offer an input for your beloved turntable! Very easy solution. All metal construction. Gold plated terminals. Quality Op Amp circuit. Low noise design. 12Vdc. With powerpack.

Code  
SP24A



Converts an AUXILIARY Input On new modern theatre amps to accept a turntable input. Powered RIAA Pre-Amp. Screw to the back of your Turntable. 240Vac powered.



### PHONO INPUT CONVERTER

#### Run out of inputs ?

If you require an extra input to your amplifier here is an option to use that old phono input ! Your turntable is gathering dust, so why not use its' input for that new black box. Fully shielded in a metal box, premium quality components, gold plated plugs and sockets.

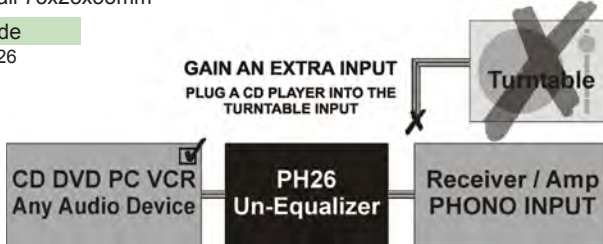
The circuitry re-equalizes the signal to counteract the RIAA eq. low level (MM) input. Passive (No power required). Small 75x25x55mm

Code  
PH26



SELL YOUR LPs

GAIN AN EXTRA INPUT  
PLUG A CD PLAYER INTO THE  
TURNTABLE INPUT



### STEREO ANALOGUE TO DIGITAL ADAPTORS

#### ANALOGUE TO DIGITAL

RCA Stereo TO Toslink/Coax  
16 bit PCM 48KHz sampling

Code  
DCT-4



#### DIGITAL TO ANALOGUE

Toslink/Coax TO RCA Stereo  
Reads 16Bit 32/44/48/96KHz

Code  
DCT-3



#### DIGITAL TO 7.1CH

HDMI TO 7.1CH Analogue out  
Dolby Digital DTS-HD, etc.

Code  
CLUX-11SA

www.cypress.com.tw



## ↓ Phono Accessories

### CARTRIDGE HEAD SHELL

Light weight Aluminium Four Pin Bayonet arm attachment which is standard on most tone arms. eg. Thorens, Technics 1200, etc. Accepts any standard cartridge. eg. OMB10, PC61, V15, etc. Includes four connection Leads. Tin Connectors.



Colour	Code
Silver	HS10SV
Black	HS09BK

### CARTRIDGE HEAD SHELL

Light weight Aluminium Four Pin Bayonet arm attachment which is standard on most tone arms. eg. Thorens, Technics 1200, etc. Accepts any standard cartridge. eg. OMB10, PC61, V15, etc. Includes four connection Leads. Gold contacts.



Colour	Code
Silver	HSE3SV
Black	HSE3BK



### BULLS EYE SURFACE LEVEL

#### ORTOFON SPIRIT LEVEL

Deluxe Turntable Type  
Base diameter is 25mm  
As used on plinths, etc.



Code	PCT230
------	--------

#### ECONOMY VERSION

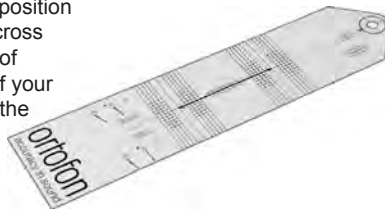
45mm base w/ screw holes.



Code	HT6451
------	--------

### ALIGNMENT PROTRACTOR

Adjust your stylus angle and position for minimum tracking error across the whole record. Vital piece of equipment for proper setup of your turntable. You will notice it in the improved stereo imaging.



Code	PCT210
------	--------

### STYLUS GAUGE

#### OEM ORTOFON

Adjusts stylus weight precisely and easily.

Dial is In Newtons. [10x mN to the gram] ie. 1g = 10mN



Code	PCT220
------	--------



### CARTRIDGE WIRES X4

#### PRE-MADE HEADSHELL LEADS

Four colour coded wires with tinned and gold plated spade connectors.

Type	Length	Code
Tin Plated	25mm	AS-02
Gold Plated	30mm	AS-02G



### HEADSHELL SCREWS SET

#### MOUNTING BITS

3 pair of stainless steel screws with nuts & nylon washers. Up to 15mm mounting.



Code	AS-01
------	-------

### CARTRIDGE MOUNTING BITS

#### SCREW PAIR

A pair of screws & nuts. Up to 6.5mm mounting.

< 6.5mm



Code	PCT202
------	--------

### WEIGHT / SPACER

Add 2.25g / 2.5mm to modify stylus mounting.

Code	PCT225
------	--------



2.25g

### MECHANICALS GREASE

#### REPAIRERS & RESTORERS

Rebuilding an older turntable mechanism requires optimum lubricants & Grease. Get decades of service using only the best.

#### POLYGLIDE CLEAR

Grease for plastics.

Size	Code
35g	GR5147



#### MOLYKOTE WHITE

Surfaces & Bearings.

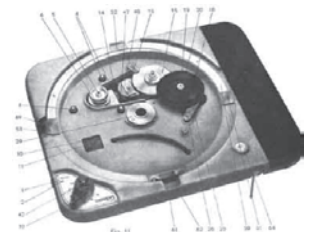
Size	Code
50g	MK6195

#### MoS2 LM47 GREY

Metal bearings, etc.

Size	Code
100g	GR3510

MORE SERVICE TOOLS  
See WES Catalogue Tools Section  
14 TOOLS & TEST EQUIPMENT





## ↓ Phono

### STYLUS NEEDLE CLEANER

#### BRUSH N' LIQUID

anti-static cleaning solution with bottle brush in lid. Professional grade Remove grit & grime from stylus needle.

Size Code  
20ml SC-1



\*Fluid is flammable, Must be transported by road.

### CARBON FIBER RECORD CLEANER

#### ANTI-STATIC MICRO-FIBRE BRUSH

A gentle brush with the microniser prior to record playing enables a million tiny filaments to discharge the harmful deposit from the grooves and bring a new dimension to record care.

Code  
DC-05P



### RECORD CLEAN - ANTISTATIC

#### ANTISTATIC HAND BRUSH

Anodised Aluminium Handle  
Conductive felt type brush  
Sponge filled for even pressure  
Removes static build-up and cleans out grit in one action.  
30ml cleaner squeegee bottle

Code  
AM10104



\*Fluid is flammable goods so must transport by road

### ANTISTATIC WIPE

#### CLOTH FOR VINYL RECORDS, etc.

Efficiently removes dust, dirt and static build up.  
Non abrasive for gentle and effective vinyl cleaning.

Code  
CLN1515



#### CLEANING ADVISE:

With the record turning on turntable, gently touch it's surface with the anti-static cleaning cloth. After several revolutions lift the cloth off the record surface. Do not touch the record surface with your fingers, only the edges. Always store the cloth back in its sealed pouch.

### ANTISTATIC RECORD CLEANING

#### STATIC SPRAY CLEANER

Efficiently removes dust, dirt and static build up. Non abrasive for gentle and effective vinyl cleaning.

Size Code  
200ml RC-2

\*Fluid is flammable, Must be transported by road.



#### REPLACEMENT CLOTH

Size Code  
210x280mm DC-103

### RECORD WASH - ANTISTATIC

#### 250ml FLUID PLUS CLOTH FOR VINYL RECORDS

Efficiently removes dust, dirt and static build up. Non abrasive for gentle and effective vinyl cleaning. Most effective cleaning method for the badly soiled records.

Size Code  
250ml RC-1

\*Fluid is flammable, Must be transported by road.



#### REPLACEMENT CLOTH

Size Code  
210x280mm DC-103

### RECORD CLEANING CLOTH

#### ANTI-STATIC CLOTH

High quality special material anti static cleaning cloth. Improves sound quality and protect your records.

Size Code  
210x280mm DC-103







## ↓ Accessories

### PROFESSIONAL LP& CD CLEANING KIT

#### RECORD & CD MAINTENANCE

Give a new life to your music records & CD's. Super cleaning kit.

#### kit contains:-

- Anti-static Record Cleaning Cloth with 20ml Cleaning Fluid.
- Carbon Fiber Anti-static Record Brush.
- Stylus Cleaner with 20ml Cleaning Fluid.
- CD Cleaner with 20ml Cleaning Fluid.

Code  
MHFC-2



\*Fluid is flammable, Must be transported by road.

### PROFESSIONAL LP RECORD CLEANING KIT

#### VINYL COLLECTION MAINTENANCE

Keep your valuable music collection new & clean  
.Professional Vinyl Record cleaning kit.

#### kit includes:-

- Carbon Fiber Anti-static Record cleaning Brush.
- Anti-static Record Cleaning Fluid 20ml.
- Anti-static Record Cleaning Cloth.
- Stylus Cleaner Fluid 20ml.

Code  
MHFC-9



\*Fluid is flammable, Must be transported by road.

### SLEEVES FOR VINYL RECORDS

#### HDPE FILM JACKET

Standard LP record storage sleeves.  
Protect record from aging effects of dust,  
moisture and scratches.

#### SQUARE SLEEVES

##### 50 Micron HDPE Film

Order one to receive a pack of 100pcs.  
Size 305x305mm.

Code  
LPS-003



#### ROUND BOTTOM SLEEVES

##### 40 micron HDPE Film

Order one to receive a pack of 100pcs.  
Size 305x305mm round bottom..

Code  
LPS-002





## → Phono

### ↓ Cartridge



# ortofon

Ortofon 1918 Denmark. Vinyl Preservation Academy.  
For more Data & Specifications see [www.ortofon.dk](http://www.ortofon.dk)

### ORTOFON OMB-10 CARTRIDGE

#### SUPER OM10 ELLIPTICAL STYLUS

Thorens®, Rega-Planar®, etc.  
Elliptical 20Hz-27KHz  
4.0mV Output  
Separation 30dB(1kHz)  
Balance 1.5dB  
Tracking 1.25 - 1.75g  
Weight 5.0g



Code  
OMB10  
[www.ortofon.com](http://www.ortofon.com)

### ORTOFON OMB-5 CARTRIDGE

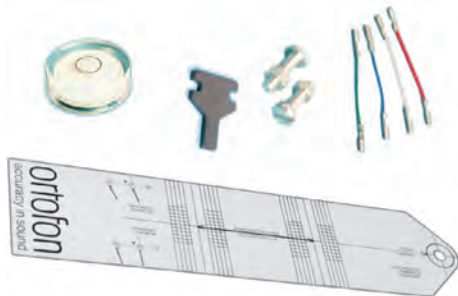
#### WITH OM5 CONICAL/SPHERICAL STYLUS

Premium grade stylus from the leader in European pick-ups.  
Conical 20Hz-20KHz  
Output 4.0mV  
Separation 22dB(1kHz)  
Balance 2dB  
Tracking 1.75g  
Weight 5.0g



Code  
OMB5  
[www.ortofon.com](http://www.ortofon.com)

### ORTOFON ACCESSORIES AVAILABLE



### MAGNETIC CARTRIDGE JAPAN

Replacement Diamond Stylus and Cartridge.  
Suitable for many Asian turntable assemblies.  
Standard Screws inc. Made In Japan.

Stylus Tip. Diamond  
Moving Magnet [MM]  
Cartridge Weight 4.2g  
Output 2mV  
Freq. 20-20KHz  
Separation. 15dB  
Balance. Below 2dB  
Pressure. 2g

Code  
PC61



### REPLACEMENT STYLUS

Code  
ST61

### CERAMIC CARTRIDGE

**MONO**  
Two pins only

Code  
PC01

**STEREO**  
Four pins

Code  
PC20

### REPLACEMENT STYLUS

Code  
D325



### CERAMIC CARTRIDGE

Metal Clip Base  
Stereo Ceramic

Code  
PC24

### REPLACEMENT STYLUS

Code  
D325



### CERAMIC CARTRIDGE

Screw down base  
Stereo Ceramic

Code  
PC23

### REPLACEMENT STYLUS

Code  
D325



### BSR GARRARD CERAMIC CARTRIDGE

**WITH MOUNTING ADAPTOR**  
Ceramic pickup w/ diamond BSR SR78, ST16, 17, etc. Single screw hold type Plus an adaptor for Garrard 301, etc.

Code  
PC05

### REPLACEMENT STYLUS

Code  
D475



### CERAMIC CARTRIDGE MODERN

**POPULAR ECONOMY**  
Widely used stylus Snap-fit type base Removeable coupling

Code  
PC30

### REPLACEMENT STYLUS

Code  
D1262





## ↓ STYLII

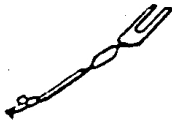






























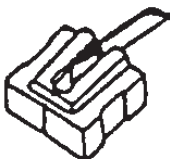
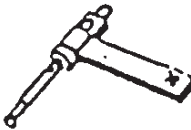



### STANFIELD REPLACEMENT STYLII

All stylus tips are diamond stereo.  
 All tips conical unless indicated.  
 Models marked \* are the most popular.

Pricing on Back Page...



**STANFIELD CATALOGUE**  
 The entire Stylus range is available through us. For a complete stylus listing get the Stanfield Catalogue Code **MAN-STY**

D35 	D170 * 	D194 * 	D414 * 	D505 * 	D558 
D87 	D171 	D197 * 	D424 * 	D506 	D563 
D88 	D184 	D325 * 	D425E 	D508 * 	D564 * 
D163 	D186 	D332 	D442 	D524 	D565 
D164 * 	D186ED 	D387 	D444 	D528 	D569 * 
D166 	D190 	D404 	D475 	D539 	D570 



# 05 AUDIO/CD/DVD & PHONO

## STANFIELD REPLACEMENT STYLII


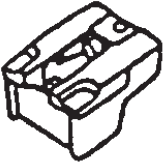

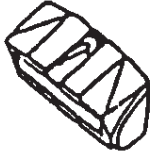


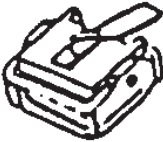

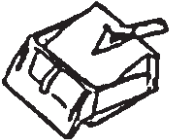
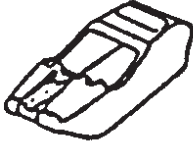

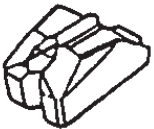



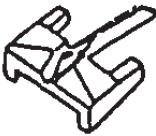







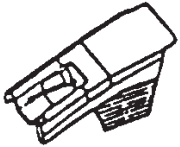



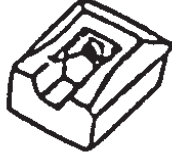
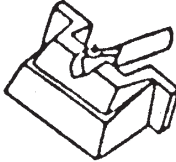



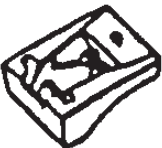
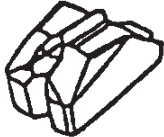


All stylus tips are diamond stereo. All tips conical unless indicated.  
Models marked \* are the most popular.

Pricing on Back Page...



**STANFIELD CATALOGUE**  
The entire Stylus range is available through us. For a complete stylus listing get the Stanfield Catalogue Code **MAN-STY**

05 AUDIO/CD/DVD/ & PHONO

D574 	D608 * 	D1032 	D1086 	D1132 	D1155 * 
D579 	D616 	D1060 	D1093 	D1135 	D1163 * 
D592 	D616ED 	D1070 * 	D1095 	D1138 	D1174 * 
D593 	D1015 	D1071 * 	D1109 * 	D1151 	D1177 * 
D594 	D1022 * 	D1081 * 	D1128 	D1152 	D1179 
D606ED 	D1029E * 	D1085 	D1129 	D1153 * 	D1181 * 



## STANFIELD REPLACEMENT STYLII

All stylus tips are diamond stereo. All tips conical unless indicated.  
Models marked \* are the most popular.

Pricing on Back Page...



**STANFIELD CATALOGUE**  
The entire Stylus range is available through us. For a complete stylus listing get the Stanfield Catalogue Code **MAN-STY**

D1184 	D1237E 	D1289 	D1307 * 	D6290 	D6890E 
D1187 * 	D1241 * 	D1299 * 	D1308 	D6750 * 	D7390 * 
D1190 * 	D1243 	D1304 * 	D6220 	D6890 	D7480 * 
D1222E 	D1260 	<p><b>STYLUS CATALOGUE</b></p> <p>Be prepared! Have a listing of virtually every stylus ever released in Australia! We stock the most popular but Stanfield stock the lot! (Rare ones can be ordered in with short delay). Keep your customers loyal by giving them access to the largest range of replacement styli. Brand listed and illustrated for easy ID.</p> <p>Code MAN-STY</p>			
D1224 * 	D1262 * 	<p>..POPI..I NEED..SCRATCH...A NEW STYLUS...POPI... ..STYLUS...POPI!..STYLUS FROM WES...SCRATCH...</p>			
D1229E 	D1286 * 				



# 05 AUDIO/CD/DVD & PHONO

05 AUDIO/CD/DVD/ & PHONO

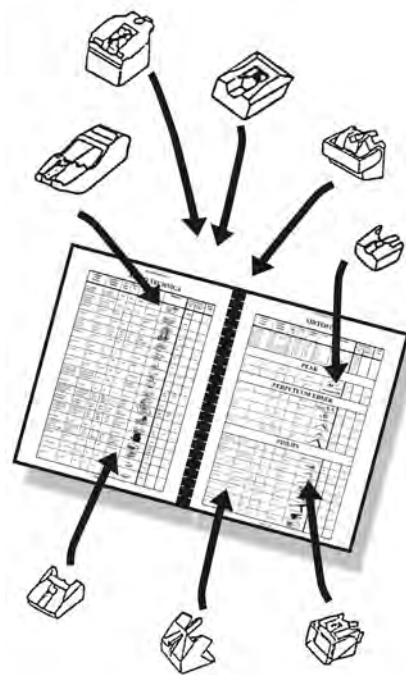
## STYLUS LISTING BY CODE NUMBER

Code	COPY OF STYLUS
D35	VACO ST100 used by BSR and HMV.
D87	HMV HV22D, 34D and PHILIPS AG3310.
D88	BSR ST3, ST4 used by AWA, HITACHI, HMV, KRIESLER, PYE, SANYO
D163	NEC LP25, CEC STY333, ONKYO DN8ST/9ST, SANYO ST6D
D164	SANYO ST14D used by AUDIO REFLEX, AWA, HITACHI, HMV, PYE, etc.
D166	AWA N3DB, TOSHIBA N3CB/DB
D170	KRIESLER S70SR, EEI, EXCEL S70SR
D171	EXCEL S70HR Widely used by many manufacturers.
D184	AKAI MC9, JELCO ND9, SANSUI SN26 and SANYO ST15GD.
D186	SHURE N91ED used by AKAI, DUAL, SANYO and others.
D186ED	Elliptical version of above.
D190	PIONEER PN11.
D194	SANYO STG1 and TOSHIBA N3CD.
D197	AUDIO TECHNICA ATS10, used by AKAI, AWA, HITACHI, HMV, PYE, SANYO,
D325	VACO ST7, used by AIWA, AWA, AUDIO REFLEX, COLUMBIA, HANIMEX, ITACHI, HMV, NA-TIONAL, ONKYO, PYE, RANK, SANYO, SHARP, SILVER, SONY, THORN.
D332	HMV HV17D, SONOTONE 9TA
D387	SHURE N44-7 used by DUAL, KRIESLER and others.
D404	BSR ST10, used by HMV, KRIESLER, PYE and others.
D414	SHURE N75-6, used by DUAL, GARRARD, HMV, PYE, SANYO & YAMAHA
D424	SHURE N44C, HEALING TM20
D425E	SHURE N55E, used by linear design & many others. (Elliptical)
D442	BSR ST12, ST14, used by EXPO, HMV, KRIESLER, PYE, RAMBLER, etc.
D444	SONOTONE 3509, used by G.E., GARRARD, HMV, KRIESLER, RAMBLER.
D475	BSR ST16, ST17, used by AUDIO REFLEX, AWA, EXPO, G.E., HANIMEX KRIESLER, NOVAT-ECH, PYE, RANK, RAMBLER and SILVER.
D505	JVC DT29, used by AUDIO REFLEX, PHILIPS, PYE and RANK, AIWA AN36, GENERAL MST6, G.E. / SANYO STG2, MITSUBISHI 3D48M, ONKYO DN7, NEC LP60, SHARP STY117
D506	JVC DT33H
D508	AUDIO TECHNICA AT55, AWA N13C, TOSHIBA N13C, YAMAHA N5500
D524	AIWA AN8743, KENWOOD N43, SHARP STY705
D528	PIONEER PN12 and PN10.
D539	SONY ND108G, used in HITACHI and others.
D558	ADC RK8, used by BSR and others.
D563	SONY ND134G
D564	SANSUI SN28, used by AUDIO REFLEX, SHARP and SILVER.
D565	SANYO/FISHER ST28
D569	NEC LP8300, CEC MC20, Harksound
D570	KRIESLER / NATIONAL EPS13TT
D574	SANSUI SN37.
D579	SANYO ST27D, used by KRIESLER, TEAC, THORN and others.
D592	ONKYO DN29ST, used by RANK, SHARP, SILVER, TEAC and TOSHIBA.
D593	PIONEER PN135.
D594	TOSHIBA NN1C, used by RANK ARENA and others.
D606ED	SHURE N95ED, used by AIWA, DUAL and others. (Elliptical)
D608	AUDIO TECHNICA ATN71, used by AIWA, COLUMBIA, HITACHI, G.E., KENWOOD, MARANTZ, NATIONAL, ONKYO, PYE, RANK, SANYO, TEAC and TOSHIBA.
D616	NATIONAL EPS270DD, NAGAOKA NM321B, used by AWA, KRIESLER, PHILIPS and PYE.
D616ED	Elliptical version of above.
D1015	KENWOOD N49
D1022	COLUMBIA DSN45, used by AWA, HITACHI, JVC, KRIESLER, PYE, SANYO., TOSHIBA N40G, used by SANYO, RANK and others.
D1029E	CEC / ORTOFON NF15E MK-II
D1032	PIEZO AN122, used by AWA, COLUMBIA, THORN and others.
D1060	JVC DT36, used by AIWA, RANK, SANYO, SILVER and TOSHIBA.
D1070	AUDIO TECHNICA ATN3400, INKEL, LUXMAN, MARANTZ CT6, SANYO ST38VD
D1071	AUDIO TECHNICA ATN3400, used by AKAI, AIWA, HITACHI, JVC, KENWOOD, MARANTZ, MIT-SUBISHI, NATIONAL, ONKYO, SANSUI, SHARP, TOSHIBA, SANYO, SHARP and YAMAHA...
D1081	CEC MC17, TEAC MC17
D1085	AUDIO TECHNICA ATN3711, used by AIWA, AKAI and others.
D1086	PIEZO AN124, used by AWA, COLUMBIA and others.
D1093	ADC QLM33-III, used by AUDIO REFLEX, BSR, HANIMEX and others
D1095	SHURE N17C
D1109	BSR T20MD, NOVATEC T-2MS, EXPO T20MD, MORSE T2MS, T20MI...
D1128	PIONEER PN220.
D1129	NATIONAL EPS25CS.
D1132	BSR T2MS and TETRAD T2MS.
D1135	ONKYO DN51ST, TOSHIBA N160C
D1138	CEC 6-2188-1A, PYE MC6, TOSHIBA N20G.
D1151	THORN / TOSHIBA N320C
D1152	SHURE SS35C
D1153	NATIONAL / THORN EPS41ST, DORCHESTER
D1155	MARANTZ CTN153, NATIONAL EPS30CS EPS33CS EPS24CS
D1163	MARANTZ CTN153, NATIONAL EPS30CS EPS33CS
D1174	PHILIPS D397-III, TOSHIBA N290S, NOVATEC, NAGAOKA JN711
D1177	AUDIO TECHNICA ATN3472P, used by AKAI, CEC, DUAL, HITACHI, KENWOOD, JVC, MARANTZ, NATIONAL, PIONEER, SANSUI, SANYO, SHARP & SONY..
D1179	SANSUI SN80, used by TEAC and others.
D1181	AKAI RS50, MARANTZ CT243, SHARP STY129 STY133
D1184	SHARP ST20D, used by MARANTZ, TOSHIBA and others.
D1187	SANSUI SN303, used by AIWA, AKAI, MARANTZ and MITSUBISHI.
D1190	COLUMBIA DSN67, SANYO ST29 ST55 ST57, SHARP STY55, TOSHIBA..
D1243	SANYO STG9, STG10, used by JVC, SHARP, TOSHIBA, AIWA, HITACHI, THORN and others.
D1222E	Elliptical version of above. NATIONAL EPS30ES EPS33ES
D1224	TEAC / SANSUI SN60, also suit MORSE, NOVATEC, TENSAI, SHERWOOD.
D1229E	ORTOFON LM5, used by AIWA, AKAI and others. (Elliptical)
D1241	SANYO ST66D
D1260	SHARP STY146, used by CEC, SANYO, SONY, TOSHIBA and others.
D1262	PYE / CEC C2800-1 MZ8D, SANYO ST-05
D1286	ADC SX-5, PYE HF1155
D1289	STANTON D5107AL
D1299	CEC BD95, TEAC P75, SHARP, MARANTZ, SANYO
D1304	SHARP STY155
D1307	ONKYO, TEMPEST, NOVATEC
D1308	AKAI APM75, 393, Kenwood N777
D6220	JVC DT-Z1S.
D6290	NATIONAL EPS36.
D6750	HITACHI ST103, PIEZO YM308
D6890	SHURE N70B, N72B, widely used by many suppliers.
D6890E	SHURE N70EJ, N72EJ, upgrade of D6890.(Elliptical version)
D7390	PIONEER PN110-II
D7480	SANSUI SN44

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