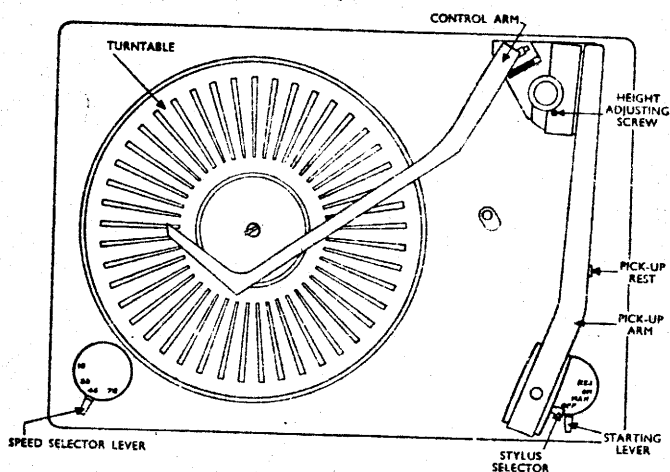




RECORD CHANGER UA-50



OPERATION

PREPARATION

1. The record changer designed for mains supply will operate on A.C. only. Before connecting to the supply, check that it is of the correct voltage and frequency.
2. Rotate the turntable five times to ensure that the mechanism is in the neutral position.
3. Depress the control arm directly over the spindle at the rear and swing it to the centre of the turntable.
4. Fit the centre spindle, if not already fitted, by locating in the centre hole and pushing down to lock in position.
5. Unclip the pick-up arm.
6. Set speed selector lever for the type of record to be played — 16, 33, 45 or 78 r.p.m.
7. Select the correct stylus for the type of record to be played. The stylus is correctly set for 78 r.p.m. records when the stylus selector tab is positioned so that the number '78' is uppermost. For long playing records the letters 'L.P.' must be uppermost.

AUTOMATIC OPERATION

Loading Raise the control arm at the rear and swing to the right. Place a stack (0.45" max.) of records which must be of the same speed and have the same type of groove (standard or long playing), on the centre spindle. (10" and 12" diameter records may be intermixed). The first record should be located carefully on the ledge of the centre spindle and held there while the remaining records are loaded. Swing the control arm back to the centre and lower it gently on to the records.

Starting Move the starting lever fully to the right (REJ), hold there momentarily and release when turntable revolves.

Rejecting Move the starting lever fully to the right (REJ) and release.

MANUAL OPERATION

Loading Lift the control arm fully and swing to the right. Place the record on the turntable and return the control arm to its operating position. Select the correct speed and stylus.

Starting Move the starting lever to the MAN/ON position. Place the stylus in position on record, the record will now play, and when completed, the pick-up arm will return to the rest and the unit will switch off in the normal manner.

Stopping The record changer may be stopped at any time by moving the starting lever to the 'OFF' position.

To remove records Lift the control arm fully, swing to the right and lift records gently off the centre spindle.

IMPORTANT

1. Never force the pick-up arm. This unit is robust but due to the featherweight action of the pick-up and the delicate balance required, any force will upset the adjustment.
2. When playing new records a certain amount of fluff will gather on the stylus point. This should be carefully removed from time to time.
3. Always remember to use the correct stylus on the pick-up. If the wrong one is in use it may not be apparent from the music, however, the stylus itself may become damaged by continuous playing on the wrong point.
4. Some very old 78 r.p.m. records have no 'run-in' groove on the outside edge. These can be played but it will be necessary to place the pick-up on the first grooves manually AFTER it has descended of its own accord.
5. The pick-up is normally of the crystal type and must be connected to an impedance of between $\frac{1}{2}$ and 2 megohms. Too high an impedance will over-accentuate the bass response, and vice versa.



RECORD CHANGER UA-50

USING THE RECORD CHANGER WITH RADIO RECEIVERS

Crystal pick-ups are capable of really high fidelity results but they must be used correctly. Being high impedance devices they must not be connected to impedances below 250,000 ohms.

Some radio receivers have pick-up input sockets designed only for magnetic pick-ups and such receivers, as they stand, are quite unsuitable for crystal pick-ups. The input circuit impedance of these receivers is usually 20,000 ohms, or lower. Such relatively low impedances can sometimes be removed and higher values substituted but this requires some technical knowledge. A transformer (type Af.333) is available to match the crystal pick-up to a low impedance input. If you find the reproduction from your set thin and weak then almost certainly the input of your receiver is unsuitable for use with a crystal pick-up. Your radio dealer can supply you with the transformer that will correct this.

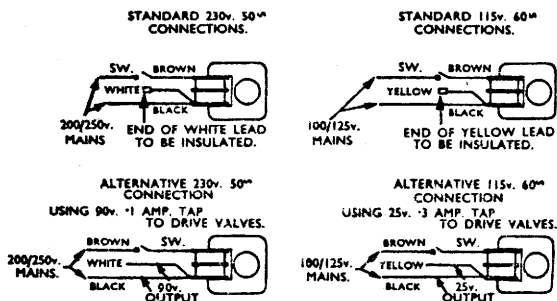
DISMANTLING

- Centre Spindle Assembly** Lift the spindle and twist. To replace the centre spindle place it into the turntable bearing, ensuring that the projection on the spindle locates in the slot at the top of the turntable bearing, and press downwards until spindle snaps on to the retaining clip.
- Turntable Assembly** Remove circlip (28) and carefully lift turntable assembly off its bearing. When replacing turntable assembly push the jockey pulley assembly (34) in towards the turntable centre, this will allow the turntable to drop in position without damaging the jockey pulley.
- Control Arm Assembly** Before attempting this, make sure that the unit has completed its cycle and the pick-up has returned to rest. Remove the circlip (61) spacer and spring from the bottom of the control spindle. The control arm assembly can then be removed from the top of the unit.
- Pick-Up Assembly** The unit should be disconnected from the mains before attempting to remove the pick-up assembly. Detach the pick-up leads from the tags on the underside of the unit, unscrew the pick-up spindle nut (116). The pick-up may then be lifted clear. Draw the pick-up lead through the hole in the diecasting.
- Operating Plate** The operating plate assembly (63) should only be removed or replaced with the unit in the 'switched-off' condition: when circlips (9) (11) and strap (10) and circlip (67) have been removed, the operating plate assembly may be detached from the unit. When replacing ensure that the groove in the roller spindle on top of the operating plate assembly is located in the sub-plate.
- Sub-Plate Assembly and Selector Housing** (This may only be removed after first removing the turntable assembly, control arm assembly and the pick-up assembly – see items 2, 3 and 4). Remove four retaining screws (53), (80), (82) and (90) and circlip (87).
- Cartridge** The cartridge is removed by taking out screw (130). The leads are removed by gently pulling the tags (127) off the cartridge contacts.
- Stylus (from C1 and X and SX1M ranges of cartridge)** To remove a worn out stylus twist the turnover arm slightly in order to lift the front end clear of the cartridge body and ease it forward from underneath the turnover spring (see diagram 'C').
If your changer is fitted with any other type of cartridge, see manufacturers own instructions for changing styli.

VOLTAGE CONNECTIONS

Mains operated changer units are fitted with 200-250 volt, 50 cycle or 100-125 volt, 60 cycle motors. Care should be taken to ensure that you have the correct voltage unit before connecting to the mains supply.

Motors fitted to the changer are normally provided with a tapped winding from which may be drawn current to supply the filaments of the amplifier valves. It should be noted that this tap is connected to the mains through the motor windings and should therefore be suitably insulated. The voltage connection diagram given below shows the different ways in which these motors may be connected.





RECORD CHANGER UA-50

LUBRICATION

3
The record changer mechanism is well lubricated before leaving the factory: however, after prolonged use, it is advisable to relubricate certain parts:

Operating plate operating surfaces, gear teeth, bearing and cam track — Apply a medium grease.

The pick-up raising spindle bearings, turntable bearing and jockey pulley spindle — Apply a light oil.

Special note: Do not get oil on the rubber jockey pulley tyre or the inside of the turntable rim.

ADJUSTMENTS

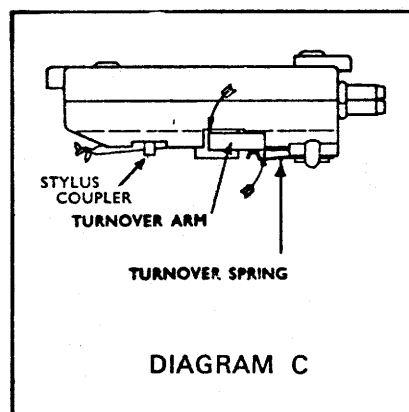
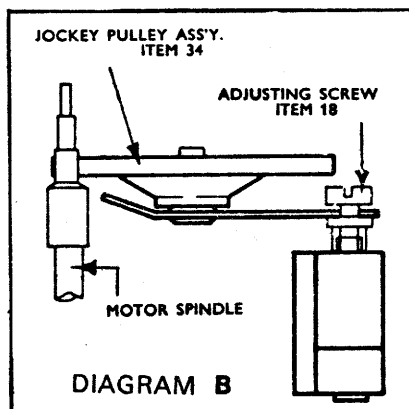
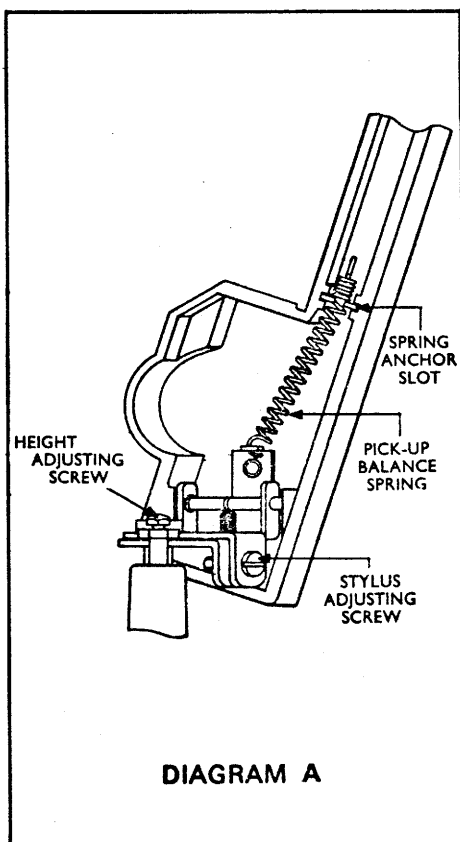
Stylus Set-down The set-down position of the stylus on the record is adjusted by means of the stylus adjusting screw (see Diagram A). The correct position is $\frac{1}{8}$ " from the edge of record. It is advisable to make this adjustment with a stack of 10" records on the turntable; when correctly positioned for a 10" record, the 12" and 7" stylus set-down will then also be correct.

Pick-up Arm Height The pick-up arm height is adjusted by the pick-up height adjusting screw (see Diagram A). To raise the height of the pick-up arm turn this screw anti-clockwise and to lower it, turn clockwise. The pick-up height should be adjusted so that when a 0.45" stack of records is on the turntable, the point of the stylus clears the top record by $\frac{1}{8}$ ". A check should then be made to ensure that the pick-up arm clears the underside of records ledged on the centre spindle and also clears the top of the pick-up rest. On some models the height adjusting screw is accessible from above, the adjustments are then in the reverse direction.

Stylus Pressure Stylus pressure is adjusted by re-positioning the pick-up balance spring in the spring anchor (see Diagram A) until the correct pressure is obtained.

Speed Change

1. Remove turntable (see 'Dismantling').
2. Set the speed selector lever to 45 r.p.m.
3. Using screwdriver slot provided in Item 18 (see Diagram B) adjust the height of the jockey pulley until it is just below the second shoulder of the motor spindle as shown in Diagram 'B'. The jockey arm pivot is turned clockwise to lower the jockey pulley and anti-clockwise to raise it.
4. Replace Turntable.





RECORD CHANGER UA-50

Symptoms	Cause	Remedy
I Turntable does not rotate when starting lever is turned to 'ON'.	1. No current to motor. 2. Defective motor. 3. Jockey pulley (34) not engaging turntable rim. 4. Jockey pulley not driving.	a) Check that current is reaching external mains lead. b) Check that switch box is functioning correctly. c) Check all wiring and contacts to and from switch box assembly. Remove the turntable and allow the motor to operate without load. If motor spindle is not rotating and main supply is reaching the motor, the motor is faulty. Repair or replace. a) Check that jockey arm is free to pivot. b) Make sure that spring (31) is properly located. Carefully clean the inside rim of the turntable and the rubber tyre of the jockey pulley (34) to ensure that they are free from oil and grit.
II Turntable revolves when starting lever is operated but pick-up remains stationary on its rest.	1. Incorrect manipulation of control. 2. Pick-up arm clipped to rest (106). 3. Actuating slide (62) trapped under friction link (44). 4. Actuating slide spring missing. 5. Toggle spring disconnected. 6. Toggle stuck above operating plate.	Ensure that starting lever is moved fully to the right. This does not apply when operating the changer manually. Lift pick-up arm clear and replace lightly on top of rest. Revolve cam gear (45) by hand to free lever. Replace. Reconnect or renew. Free, allowing spring to reposition it correctly.
III Turntable revolves when starting lever is operated, pick-up lifts and returns to rest, unit switches off.	1. Latch stop sticking 2. 12" selector sticking.	Free by moving backwards and forwards. Free by moving backwards and forwards, replace if distorted.
IV Turntable revolves when starting lever is operated, pick-up lifts and moves to centre of turntable and returns to about 7" position without selecting a record.	1. Selector lever spring disconnected.	Refit or replace.
V Turntable speed too slow.	1. Tightness in motor bearings. 2. Binding in turntable bearings. 3. Jockey pulley slip. 4. Mains voltage too low. 5. Operating temperature too low. 6. Jockey pulley height incorrectly set. 7. Jockey pulley not upright.	Tap lightly the side of motor laminations to free self-aligning bearings. Check turntable bearing for freedom. If it does not turn easily when jockey pulley (34) is disengaged, remove turntable and clean off any foreign matter and lubricate with light mineral oil. a) Check that jockey arm pivot (32) is free in speed change arm (19). b) Check that spring (31) is not strained. The mains voltage should not be less than 200 V. when the unit is wired for 200/240 Volts, and not less than 100 V. when the unit is wired for 100/125 Volts. If the unit has been standing in a cold place or operated in surroundings at a temperature of less than 45°F., the turntable speed may be slow initially. Adjust as detailed under 'Adjustments'. Carefully twist jockey arm until pulley is square with rotor spindle.
VI Turntable stops in middle of changing cycle.	1. Jockey pulley slip. 2. Insufficient tension on jockey pulley spring.	Clean the inside rim of the turntable and the rubber tyre of the jockey pulley (34) to ensure that they are free from oil and grit. Check that spring (31) is properly located and is not strained.
VII Pick-up fails to move in to play last record. Pick-up returns to rest and unit switches off.	1. Control arm distorted.	Carefully twist control arm to hold record parallel to turntable.
VIII Two records drop together.	2. Latch stop (29) sticking. 1. Hole in record too large. 2. Record keeper not fully down (possibly due to incorrect loading of records). 3. Record control arm (120) not holding records level.	Free by moving backwards and forwards. Replace record. Carefully clean and remove burrs. Do not oil, the record should fall under its own weight. Gently twist control arm until it will hold record stack parallel to the top face of turntable.
IX Record does not drop when changer cycles.	1. Strained record feed lever. 2. Record feed lever limit spring (65) disconnected.	Replace centre spindle (1). Refit or replace.
X Pick-up does not locate correctly on records.	1. Pick-up arm not adjusted correctly. 2. Stylus not located correctly in coupler.	See 'Adjustments'. Reposition between shoulders of stylus coupler (see diagram C).



RECORD CHANGER UA-50

Symptoms	Cause	Remedy
XI Pick-up does not move in when set down on record.	1. No run-in groove on record.	Check that the record is of the standard type which has a run-in groove from the outside edge of the record to the recorded section. Some old type records and home recordings do not have this run-in groove.
XII Pick-up does not track correctly across record.	1. Stylus may be covered with an accumulation of dust or be worn.	a) Clean the dust etc. from round the stylus. b) Check stylus to see if tip is broken and replace if necessary. (To replace, see instructions).
	2. Pick-up leads too tight.	Give pick-up leads enough slack to allow pick-up arm to move freely across record.
	3. Changer not level.	Ensure that changer is level before use.
	4. Binding or friction in the pick-up spindle.	Ensure that all moving parts and bearing surfaces in this assembly are free and lightly oiled.
	5. Insufficient stylus pressure.	Check as under 'Adjustments'.
	6. Actuating slide (62) sticking.	This lever must be absolutely free to slide on its bearing surfaces. Check for distortion, rust, fray, etc.
	7. Worn record or records with damaged grooves.	Record needs replacing.
	8. Actuating pawl (44) assembly stiff on pivot.	Remove assembly, lightly clean and oil pivot.
XIII Pick-up remains on record run-out groove or on last groove.	1. No finishing run-out groove on record.	Check record for eccentric run-out groove in centre of record.
	2. Stylus jumps out of groove in record.	a) Check that stylus pressure is correct. b) Check that record is not defective. The run-out groove is often too shallow. c) The stylus might be damaged or affected by excessive accumulation of dust. Replace or clean. d) Ensure that all moving parts and bearing surfaces of pick-up spindle assembly are free and lightly oiled.
	3. Faulty actuating pawl assembly (44).	When friction link has been moved towards centre of gear wheel and then slowly pushed outwards, it should also carry the actuating pawl outwards from the start of its movement. If the pawl does not move freely with the link it will not engage the turntable boss, to start the cycle. If the assembly sticks, remove assembly, clean and lightly oil pawl bush.
XIV Changer does not shut off after last record has been played. Pick-up continues to play last record.	1. Control arm (120) not dropping.	Make sure that control arm is in the operating position and drops freely. If necessary, oil spindle.
	2. Stop latch spring distorted.	Replace assembly.
	3. Reset link stiff.	Free by moving backwards and forwards, replace if distorted.
XV Changer continues to cycle with pick-up dropping on to record every cycle.	1. Operating plate spring (139) weak or detached.	Replace.
	2. Selector lever tight.	Free by moving backwards and forwards.
XVI Changer fails to switch off after pick-up has played last record and returned to rest.	1. Mains lead fouls switch slide.	Move leads clear of slide.
	2. Faulty switch.	Disconnect from mains. Remove cover and check operation of contacts.
	3. Tight cut-off lever.	Free lever by moving backwards and forwards several times.
	4. Cut-off lever spring (74) strained or detached.	Replace.
	5. Switch lever spring detached.	Refit or replace.
XVII Pick-up does not locate on pick-up rest.	1. Selector lever tight.	Free by moving backwards and forwards.



RECORD CHANGER UA-50

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Symptoms	Causes	Remedy
XVIII Noise during playing of record.	1. Motor rumble.	If a low pitched rumbling sound comes from the loudspeaker while record is being played, check the motor rubber mountings to make sure the motor is freely suspended on them. The motor leads should have enough slack to allow the motor to float.
	2. Defective turntable bearings.	Check for dust etc. in the bearings or on thrust washer (56), check for defective balls or binding between balls and ball cage. Grease ball race (7) and lubricate turn-table bearing with light mineral oil.
	3. Defective jockey pulley.	A rapid bumping sound while the motor is running may indicate uneven wear of the jockey pulley (34). If the surface of the rubber tyre is found to be rough, the jockey pulley should be replaced.
	4. Defective records.	Worn or defective records cause rumble, scratch and distortion of recorded sound. If the record is warped it may slip on the other records causing 'wow'. An enlarged hole in the record can also cause 'wow'.
	5. Squeaks.	Squeaking sounds as the changer operates indicates a lack of oil. Lubricate.
XIX Pick-up arm strikes underside of record on spindle ledge when it rises, or stylus catches on top of last record when moving in.	1. Pick-up arm height not adjusted correctly.	See 'Adjustments'
	2. Control arm not holding records level.	Gently twist control arm until it will hold record stack parallel to top face of turntable.
XX Distortion of recorded sound.	1. Defective record.	(See XVII 'Noise during playing of record' No. 4.)
	2. Defective amplifier.	Check amplifier and speaker.
	3. Faulty cartridge.	Replace (see instructions).
	4. Dust on stylus.	Remove dust.
XXI No sound during playing.	1. Defective cartridge.	Replace.
	2. Defective wiring.	Check pick-up leads for short or open circuit condition.
	3. Defective amplifier.	Check amplifier and speaker.
	4. Loose cartridge socket tags (127).	Remove, tighten slightly and replace.

THIS CHANGER IS ADAPTED FOR STEREOPHONIC USE

Two pairs of leads are fitted to this changer to enable stereophonic cartridges to be used.

CONNECTIONS TO CARTRIDGE

Monaural When a monaural cartridge (2 tags) is fitted, two leads only (red and green) are required. These are connected to the two tags and the spare leads secured inside the pick-up head.

Stereophonic 3 Lead System (3 tag cartridge) Normally three tag cartridges have the two outer tags identified with the letters R and L indicating the right and left hand channels. When thus coded cartridges should be connected as follows:

Red lead to tag marked R.

Green lead to centre tag.

White lead to tag marked L.

Black lead is spare and should be left secured inside the pick-up head.

Stereophonic 4 Lead System (4 tag cartridge) A fourth black lead is provided for use with four lead systems and in this case the cartridge manufacturers' instructions must be followed when making the connections.

NOTE: Units despatched from the factory with cartridges fitted (either monaural or stereophonic) are already correctly connected in accordance with these instructions.

CONNECTIONS TO AMPLIFIER

Monaural 2 Lead System The amplifier is connected to the red and green tags only.

Stereophonic 3 Lead System When facing the speakers, connections from the right-hand speaker amplifier (R/H channel), should be made to the red and green tags. Connections from the left-hand speaker amplifier (L/H channel) should be made to the white and green tags.

Stereophonic 4 Lead System When facing the speakers, connections from the right-hand speaker amplifier (R/H channel), should be made to the red and green tags. Connections from the left-hand speaker amplifier (L/H channel) should be made to the white and black tags.

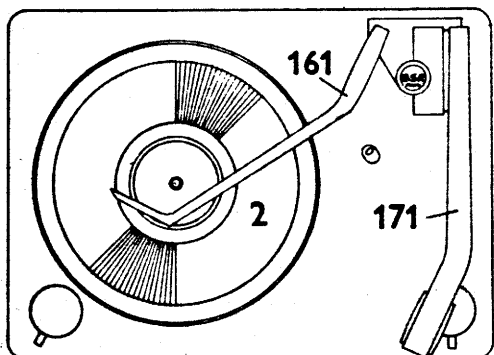
NOTE: For AC/DC Sets, the Earth Bridge MUST be removed and also in certain instances, on four-lead stereophonic systems.



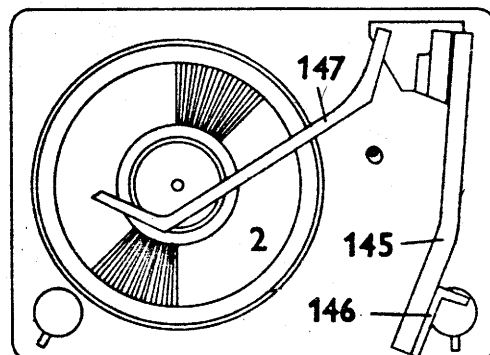
RECORD CHANGER UA-50

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This Unit is generally supplied in two types, the UA.50-3 and UA.50-5, both of which have distinctive colours.



U.A.50-3.



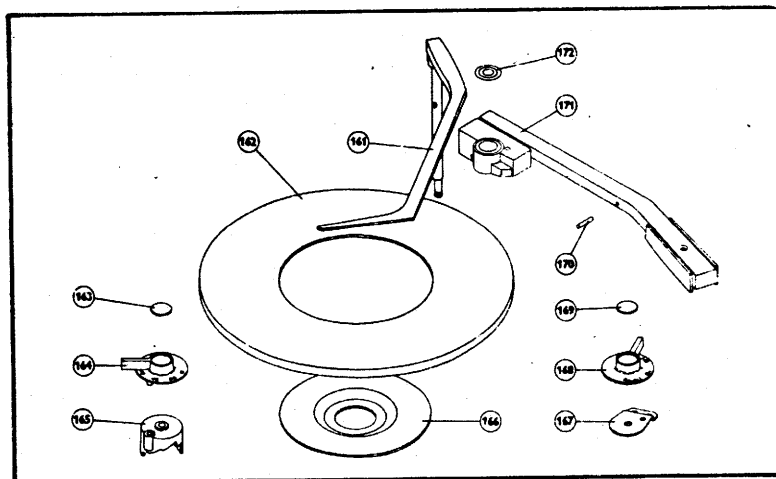
U.A. 50-5.

Mainplate
Control Columns
Pick-up Arm
Control Arm
Turntable

Medium Grey
" "
Pearl Grey
" "
" "

Mainplate
Control Column
Pick-up Arm
Control Arm
Turntable

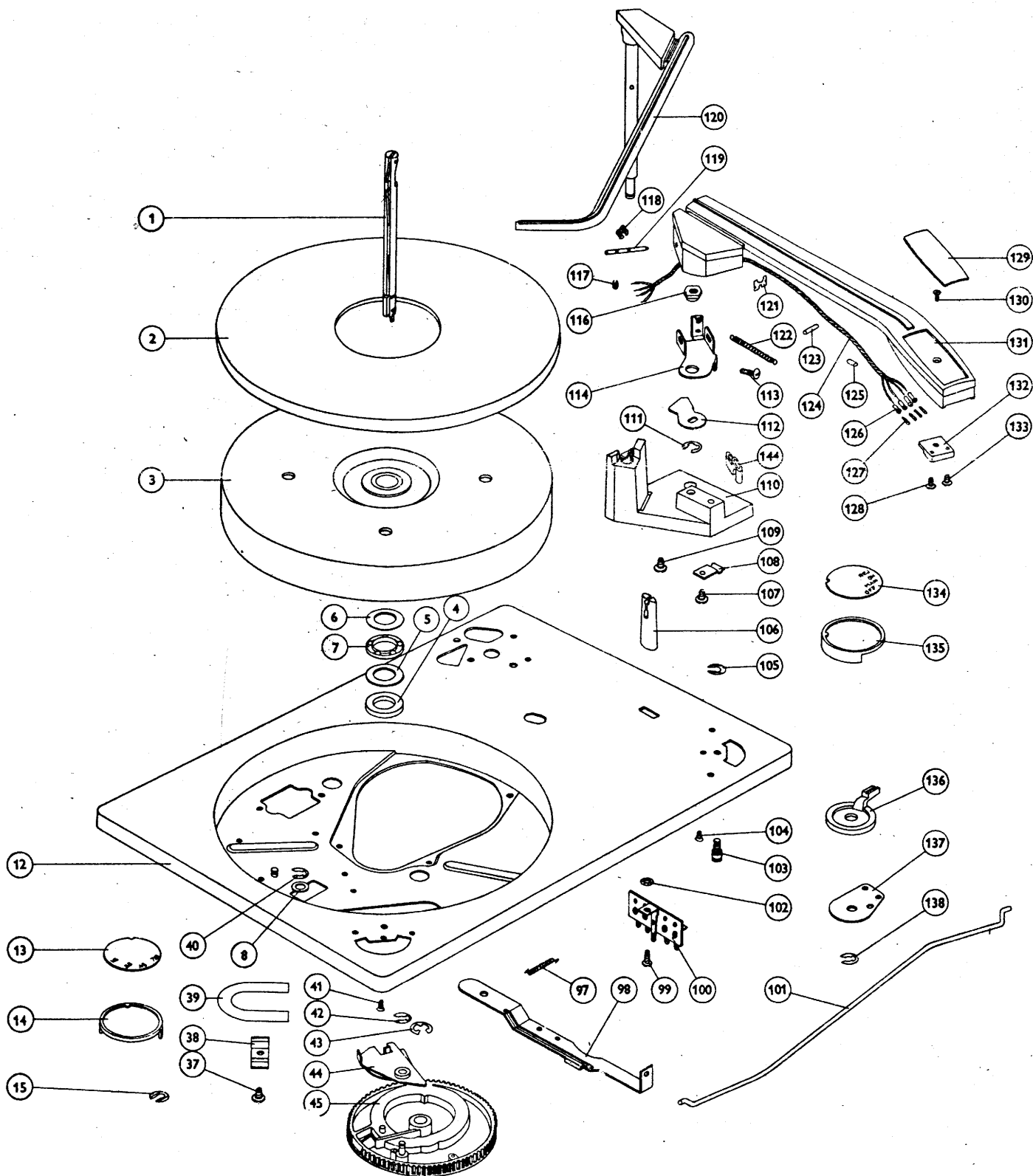
Warm White
" "
Black
" "
"





RECORD CHANGER UA-50

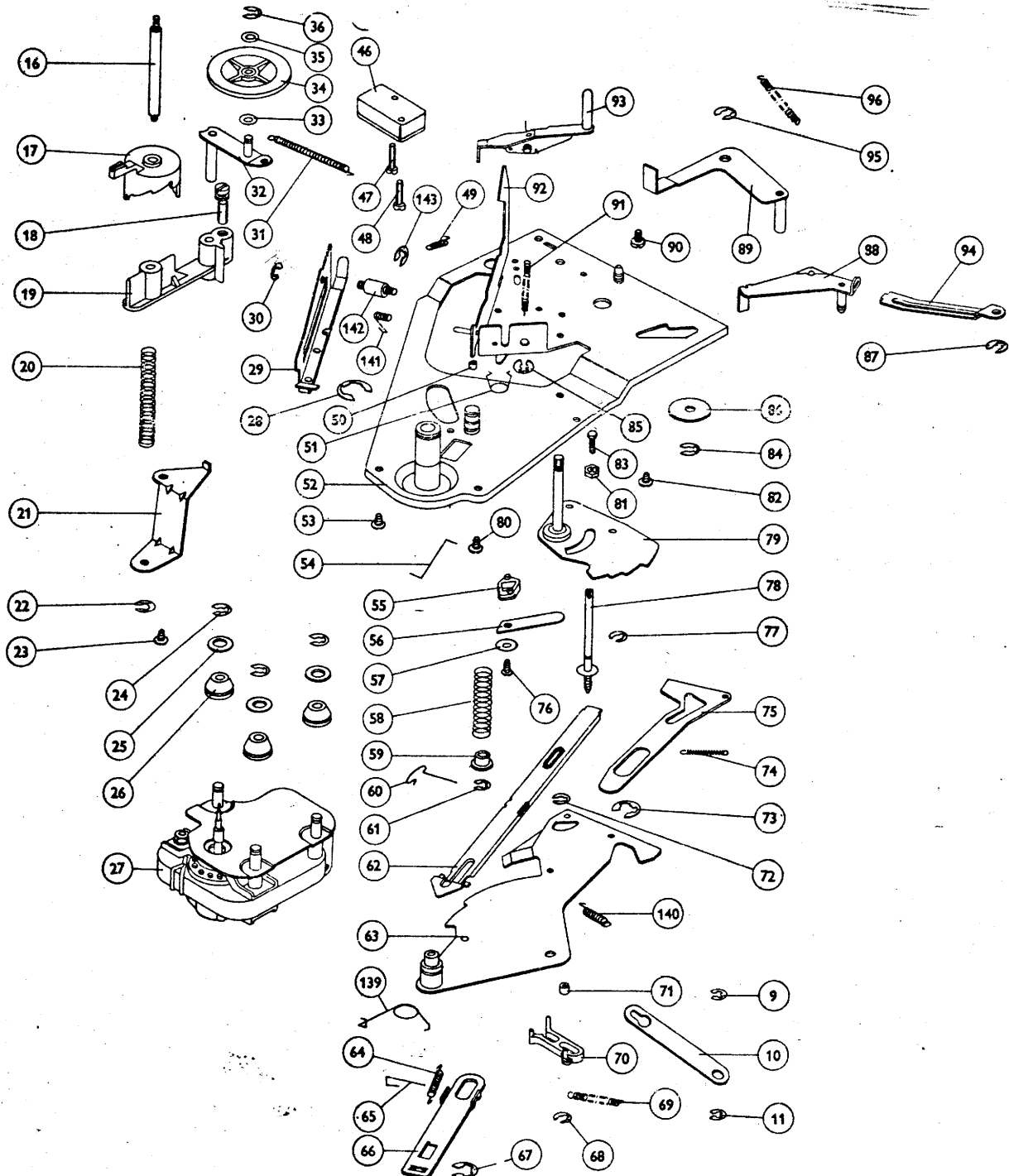
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RECORD CHANGER UA-50

MTG HARDWARE 4 ~~1~~ A103558 CIRCLIPS
4 ~~1~~ A105931 WASHER
4 ~~1~~ A105943 CROMMET
T JIC arm B107187





RECORD CHANGER UA-50

Item	Drg. No.	Description	List Price	P.T. extra				
1	A105964	Centre Spindle Assembly	18	0	81	A105907	Nut	1
2	C105603	Turntable Mat	4	6	82		Screw Type Z No. 6 x 1/4" B.Hd.	1
3	C105955	Turntable Assembly	12	0	83	A105712	Adjusting Screw	(100) 18
4	A102058	Damping Washer	5		84	A100762	Circlip	1 1/2
5	A101506	Thrust Washer	3		85	A100762	Circlip	1 1/2
6	A101506	Thrust Washer	3		86	A105660	Control Washer	1 1/2
7	A101649	Ballrace Assembly	2	6	87	A102109	Circlip	1 1/2
8	A102595	Washer	1	1 1/2	88	A105968	Reject Lever Assembly	2
9	A102109	Circlip	1	1 1/2	89	A105969	Reset Link Assembly	1
10	A106066	Strap	2	1 1/2	90		Screw Type Z No. 6 x 1/4" B.Hd.	1
11	A102109	Circlip	1	1 1/2	91	A106079	Spring (Selector Arm)	4
12	C105977	Mainplate Riveting Assembly	30	0	92	A105970	Selector Arm Assembly	8
13	A105731	Speed Change Label	1	2	93	A106128	Trip Lever Assembly	1
14	A105607	Escutcheon Moulding	4		94	A106065	Reject Link	4 1/2
15	A102128	Circlip	2		95	A100762	Circlip	1 1/2
16	A105733	Raising Spindle	6		96	A105832	Spring (Reject Lever)	3
17	B105604	Raising Cam	1	4	97	A105826	Spring (Switch Lever)	4
18	A105619	Adjusting Screw	4		98	A105585	Switch Lever	1
19	A105967	Speed Change Arm Assembly	8	0	99		Screw Type 25.6-20 x 1/4" B.Hd.	1
20	A105831	Spring (Raising Spindle)	1	1 1/2	100	A105822	Tag Mounting Strip	1
21	A105584	Speed Change Bracket	1	6	101	B105828	Switch Link	7
22	A102128	Circlip	2		102		4BA Lockwasher	1 1/2
23		Screw Type Z No. 6 x 1/4" B.Hd.	1		103	A105732	Reject Knob Pivot	2
24	A100762	Circlip (3-off)	1 1/2		104		Screw Type 25.4-24 x 1/4" Countersunk	1
25	A101646	Washer (3-off)	1		105	A102128	Circlip	2
26	A102181	Rubber Mounting (3-off)	4		106	A105608	Pick-up Rest	8
27		TP6 Motor Assembly	32	0	107		Screw Type Z No. 6 x 1/4" B.Hd.	1
28	A105678	Circlip	1	1 1/2	108	A104619	Clamp	2
29	A105966	Stop Latch Assembly	3	0	109		Screw Type Z No. 6 x 1/4" B.Hd.	1
30	A100762	Circlip	1	1 1/2	110	C105681	Control Housing	4
31	A105824	Spring (Jockey Pulley)	5		111	A102109	Circlip	1 1/2
32	A105965	Jockey Arm Rivet Assembly	10		112	A105598	Pick-Up Adjuster	4
33	A101620	Jockey Pulley Spindle Washer	4	3	113		Screw 6BA x 1/2" C.Hd.	1
34	A101623	Jockey Pulley Assembly	4	3	114	A105975	Hinge Bracket Rivet Assembly	6
35	A101620	Jockey Pulley Spindle Washer	1	1 1/2	115	A105624	Pick-up Spindle Nut	6
36	A100762	Circlip	1	1 1/2	116	A104077	Circlip	1
37		Screw Type Z No. 6 x 1/4" B.Hd.	1		117	A105853	Spring (Hinge Retainer)	1
38	A102718	Cable Clamp	4		118	A105622	Pivot Pin	2
39		3"-5mm PVC Sleeving	(yard) 7		119	B105693	Control Arm Assembly	5
40	A100762	Circlip	1	1 1/2	120	A105142	Spring Anchor	2
41		Screw Type 25.4-24 x 1/4" Countersunk	1		121	A105847	Spring (Pick-up Balance)	5
42	A100762	Circlip	1 1/2		122	A105864	Pick-up Pin	1
43	A102110	Circlip	1 1/2		123		Pick-up Lead (Stereo)	6
44	A102132	Actuating Pawl Assembly	2	6	124	A103373	Securing Rubber	1
45	A102133	Cam Gear Assembly	6	3	125	A104306	Sleeve (4-off)	1
46		S.2 Switch Assembly	5	0	126	A102720	Tag (4-off)	1
47		Screw Type 25.4-24 x 1/4" B.Hd.	1		127		Screw Type Z No. 2 x 1/4" B.Hd.	1 1/2
48		Screw Type 25.4-24 x 1/4" B.Hd.	1		128	A105673	Pick-up Trim	6
49	A105849	Spring (Selector Lever Latch)	5		129		Screw 6BA x 1/2" Countersunk Ph.Ls.Rec.	1
50	A105677	Damping Sleeve	(100) 2	6	130	D105671	Pick-up Arm	4
51	A105840	Toggle Spring	2		131	A105155	Adaptor Plate	6
52	C105956	Main Sub Plate Rivet Assembly	9	0	132		Screw Type Z No. 2 x 1/4" B.Hd.	1 1/2
53		Screw Type Z No. 6 x 1/4" B.Hd.	1		133	A105730	Reject Label	1
54	A104882	Retaining Clip	(100) 3	0	134	A105607	Escutcheon Moulding	4
55	A105609	Spring Support	2		135	A105606	Reject Knob	10
56	A104384	Leaf Spring	2		136	A105978	Reject Plate Assembly	6
57	A102237	Washer	1	1 1/2	137	A102109	Circlip	1 1/2
58	A105985	Spring (Control Spindle)	1		138	A105839	Spring (Operating Plate)	3
59	A104861	Spacer	6		139	A105825	Spring (Selector Lever)	4
60	A105901	Spring (Actuating Slide)	1	1 1/2	140	A105983	Selector Link	3
61	A102109	Circlip	1	1 1/2	141	A105982	Selector Arm Pivot	3
62	B105591	Actuating Slide	4		142	A105981	Circlip	1 1/2
63	B105959	Operating Plate Rivet Assembly	3	8	143	A106047	Locking Sleeve	2
64	A105827	Spring (Link Return)	4		144	C106020	Pick-up Arm	5
65	A105830	Spring (Feed Lever Link)	1	1 1/2	145	B106035	Pick-up Head	1
66	B105597	Feed Lever Link	6		146	C106057	Control Arm Assembly	5
67	A102110	Circlip	1	1 1/2	147	B105754	Control Arm Assembly	5
68	A100785	Circlip	1	1 1/2	148	C105739	Turntable Mat	4
69	A105825	Spring (Toggle)	4		149	A105769	Knob Insert	5
70	A105610	Toggle	4		150	B105738	Speed Change Knob	8
71	A105677	Damping Sleeve	(100) 2	6	151	B105737	Raising Cam	1
72	A100785	Circlip	1	1 1/2	152	B105899	Turntable Centre Disc	4
73	A101526	Circlip	1	1 1/2	153	A105979	Reject Plate Assembly	6
74	A102623	Spring (Cut-off Lever)	4		154	B105736	Reject Knob	8
75	B105592	Cut-off Lever	4		155	A105769	Knob Insert	5
76		Screw Type 25.4-24 x 1/4" B.Hd.	1		156	A105934	Pick-up Pin	1
77	A100785	Circlip	1	1 1/2	157	D105601	Pick-up Arm	5
78	A105976	PU Raising Spindle Assembly	1	4	158	A105770	Pick-up Trim	1
79	E105792	Quadrant Assembly	6	0				0
80		Screw Type Z No. 6 x 1/4" B.Hd.	1					

A105931
A105943
A103558
A105991

Mounting Washers and Circlip Set
Turntable Assembly including Matt and Silver Centre