

The RC182 Two Speed Record Changer is a modification of the RC181 in order to adapt it for manually playing the new 33-1/3 RPM records in addition to either automatically or manually playing the standard 78 RPM records.

The major differences are the addition of a second pickup arm, a new two speed motor, a speed change switch and knob, and a few related miscellaneous parts. Figures 12, 13 & 14 and the parts list

on the back page indicate the parts which have been added to modify the RC181 for playing the 33-1/3 RPM records.

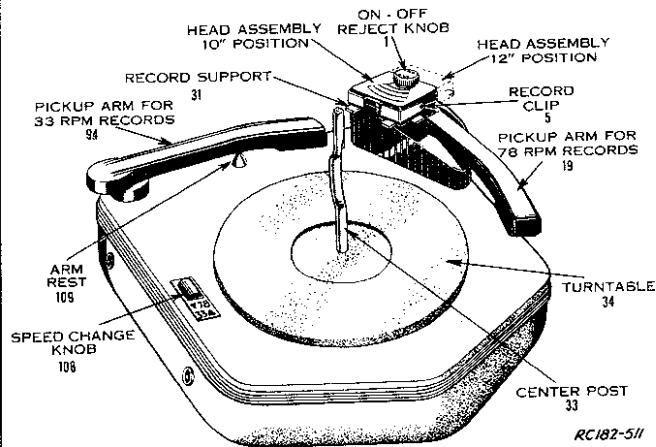
OPERATION

The pickup arm on the right side of the RC182 Record Changer is for automatically or manually playing the standard 78 RPM records. The operation of this part of the changer is described in detail in the RC180 and RC181 Record Changer Service Manual.

The second pickup arm, at the rear of the changer is for manually playing the new 33-1/3 RPM records.

In order to play this new type record, merely move the speed change switch to the "33" position, place the 33-1/3 RPM record on the turntable, turn the changer on by means of the "ON-OFF REJECT" knob and place the pickup arm for 33-1/3 RPM record, on the record. When moving the speed change switch to either position make certain that it "clicks" or "snaps" into the desired position.

When the record has finished playing, the changer will automatically shut off. If the pickup arm is lifted from the record and moved toward its arm rest, the changer will automatically turn on unless the "ON-OFF REJECT" knob has been turned to the "OFF" position.



RC182 Two Speed Record Changer.

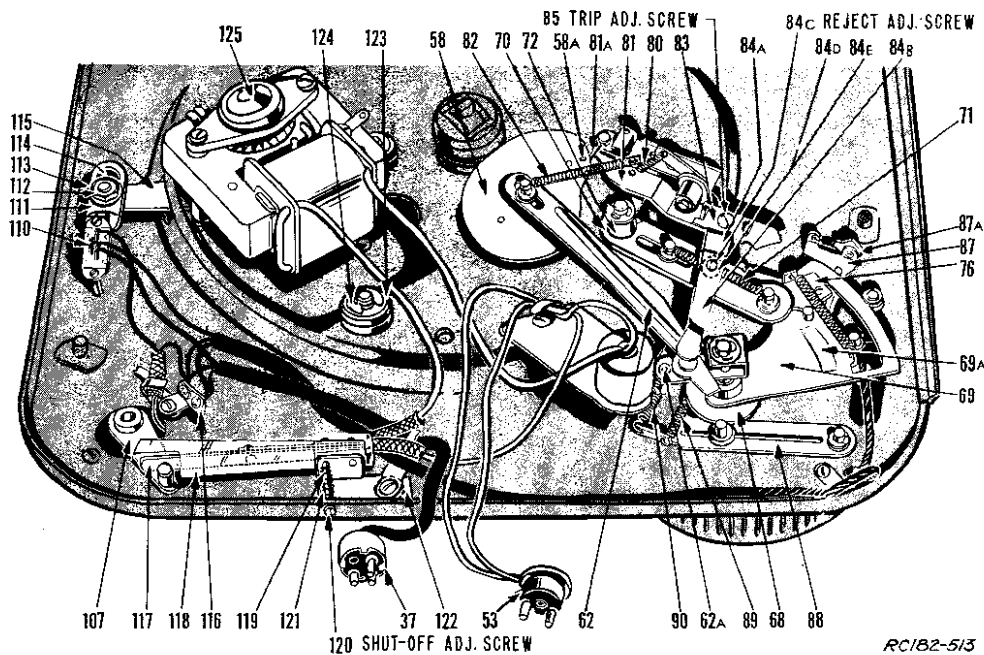


Figure 12 - Bottom View of RC182.

ADMIRAL CORPORATION

MODEL RC182

NEEDLE FOR 33 RPM PICKUP ARM

The needle (95) used in the 33-1/3 RPM pickup arm is an osmium tipped needle especially designed for playing 33 RPM records. The point of the needle has a radius which is only 1/3 of the radius of a standard needle. To prevent possible damage to "microgroove" records, be absolutely certain when replacing a needle that the correct needle is used.

If this adjustment is insufficient to obtain proper shut-off, reposition the arm stop and shaft assembly (107) as follows:

1. Loosen Allen set-screw (104). With the pickup arm (94) resting on the arm rest (109), move the arm stop and shaft assembly (107) until it touches the rear flange or lip of the changer pan.
2. Tighten the Allen set-screw (104). Adjust screw (120) for proper shut-off.

TWO SPEED MOTOR (125)

The turntable speed of the RC182 Two Speed Record Changer is changed mechanically. When the speed change knob (108) is moved to the "33" position, the speed change arm (115) moves. This causes the 33 RPM drive shaft to pivot and ride against the idler wheel (126). Simultaneously, the 33 RPM pickup arm (94) is switched into the circuit, and the 78 RPM pickup arm (19) out of the circuit, by means of switch (110). When the speed change knob is moved to the 78 RPM position, the speed change arm causes the 33 RPM drive shaft to pivot away from the idler wheel (126).

When the speed change switch knob (108) is moved, make certain that it "clicks" or "snaps" into position. If it is not moved far enough, the speed of rotation will change but the correct pickup arm will not have been switched into the circuit.

Note that the 33 RPM drive shaft is driven by the 78 RPM drive shaft by means of a rubber belt (130). This belt should be clean and free from oil. If the belt is greasy or stretched, it might possibly slip which would cause the turntable speed to vary resulting in unsatisfactory operation.

AUTOMATIC SHUT-OFF ADJUSTMENT

When the changer is playing 33 RPM records, it should shut-off when the needle is approximately 2-1/4 inches from the near side of the centerpost.

If the changer motor shuts off before or after the arm reaches this point, merely turn the shut-off adjusting screw (120) in or out until the roller on the arm stop and shaft assembly (107) opens the contacts of the leaf switch (117) when the needle is 2-1/4 inches from the near side of the centerpost.

SERVICE HINTS

1. The dimensions of the two speed motor are such that an extra cork washer (131) has been added under the turntable hub to keep the turntable from rubbing against the idler wheel drive shafts. This cork washer (approximately 3/64" thick) should not be omitted.

2. The rubber mounting grommets (123) are the same as those used for mounting the RC180 and RC181 motor, except that they are put on so the cone portion of the grommet is against the changer pan. The grommets are mounted in the opposite direction in the RC180 and RC181.

3. The largest of the four holes in the switch link (111) is slightly off-center. When replacing or re-installing this part, be sure the narrow side is toward the nearest edge of the changer pan or base.

Installing this part with the narrow side toward the center of the changer pan will cause the speed change knob (108) to bind making it extremely difficult to switch from one speed to another.

4. Fibre washers (113) and (114) have the same dimensions except for thickness. The thin washer (113) should be placed between the spacer nut (112) and the switch link (111). The thicker washer (114) goes between link (111) and the speed change arm (115).

MODEL RC182

ADMIRAL CORPORATION

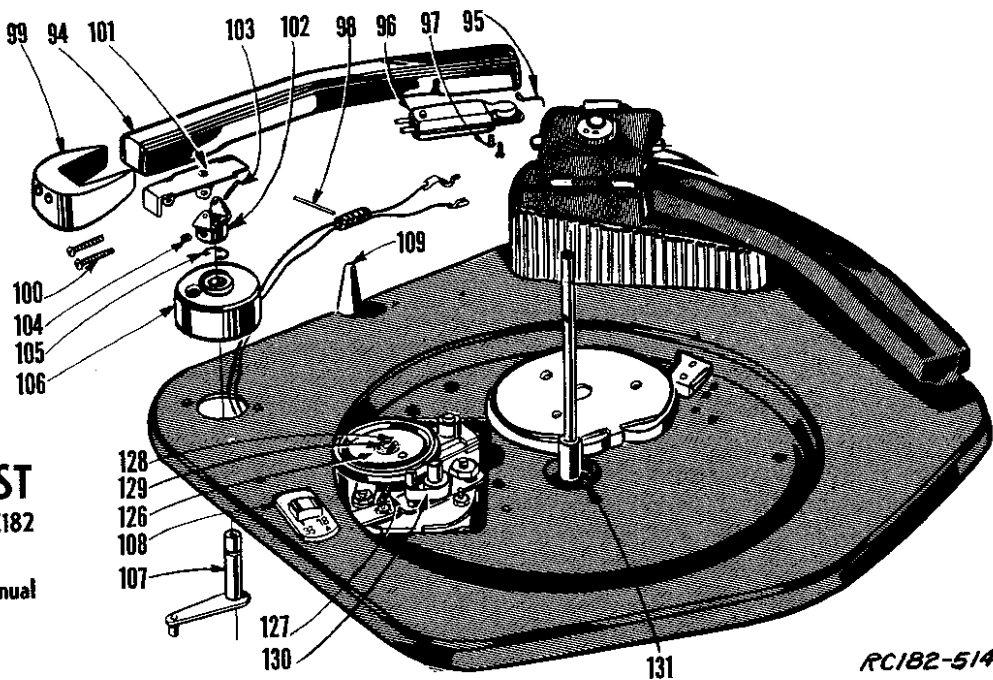


Figure 13 - Top View of RC182.

RC182 PARTS LIST

Use this list when ordering RC182 parts.

See RC180 & RC181 Service Manual for any part NOT listed here.

Ref.No.	Part No.	Description
5	403A 32	Record Clip (Plastic)
7	403A 31	Head Cover (Plastic)
11	45-750-C2-47	Screw, Set-down Adjusting 4-40x3/4 BH MS
84	G400A 266	Reject Link & Trip Lever Assembly
84A	G400A 230-1	Reject Arm Support & Trip Lever
84B	401A 237	Reject Arm
84C	65-375-C2-39	Screw (6-32x3/8 BH MS)
84D	405A 98	Spring Washer
84E	4B1 68-2	Flat Washer
94	403B 29-3	Pickup Arm
95	98A 15-2	Needle
96	409A 10	Cartridge
97	402A 139	#2 Type 25 Plastiscrew (2 req.)
98	414A 26	Wire Clip
99	404A 21-1	Pickup Arm Counterweight
100	40-562-C2-47	Screw 4-40x9/16 RH MS (2 req.)
101	G400A 278	Pivot and Mounting Plate
102	G400A 271	Pivot Spring and Hub
103	414A 29	Pivot Shaft
104	1A 43-14	#8 Allen Set Screw
105	401A 235	Retaining Ring
106	G400A 173	Pickup Arm Base
107	G400A 270	Arm Shaft and Stop Assembly
108	403A 33	Knob (speed change)
109	402A 151	Pickup Arm Rest
110	77B 1-1	Switch (speed change)
111	401A 241	Switch Link
112	402A 152	Spacer Nut
113	412A 28	Fibre Washer
114	412A 23	Fibre Washer
115	401A 242	Speed Change Arm
116	10B 1-6	Terminal Board

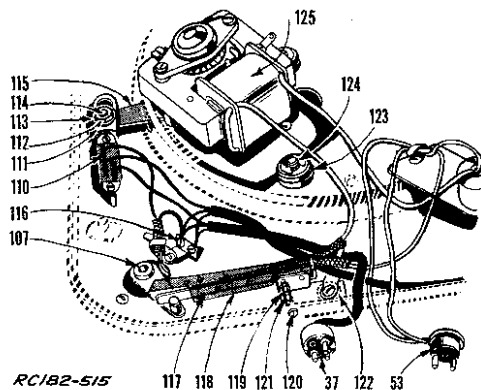


Figure 14 - Bottom View of RC182 - 33 RPM Section.

117	408A 2	Leaf Switch (Automatic shut-off)
118	412A 29	Switch Cover
119	401A 244	Leaf Switch Bracket
120	45-1125-C2-47	Screw, Shut-off Adjusting
121	405A 106	Lock Spring
122	402A 165	Spacer
123	406A 4	Rubber Mounting Grommet (3 req.)
124	401A 229	Retaining Ring
125	407B 15	Motor, Two Speed
126	G400A 279	Idler Wheel Assembly
127	405A 107	Idler Wheel Spring
128	405A 15	Hairpin Clip
129	412A 30	Washer (under hairpin clip)
130	406A 20	Drive Belt
131	412A 9	Cork Washer