



# RCA VICTOR

## RP-205 Series

### Automatic Record Changers

(This service material is presented below and continued on the next twenty-one pages)

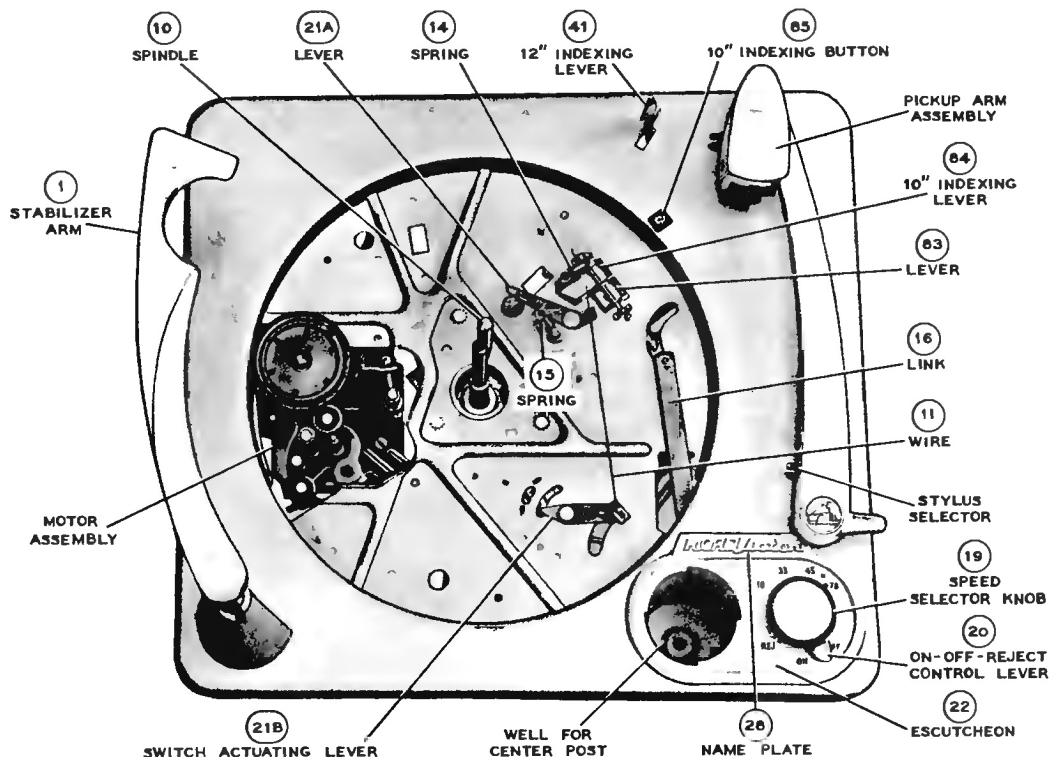


Figure 2—Top View of RP-205-2 with Turntable Removed

Other models differ in appearance of pickup arm.

## GENERAL DESCRIPTION

The RP-205 Series record changers are four-speed mechanisms designed to play, in automatic sequence, a stack of 7", 10" or 12" records, or 10" and 12" records intermixed. The mechanism will shut off automatically after playing of the last record.

Record separation is accomplished by movement of a finger in the center spindle. This finger directly separates records having a  $\frac{1}{4}$ " centerhole and actuates the knives and shelves of the centerpost used for the playing of records having a  $1\frac{1}{2}$ " centerhole.

The tripping method used is the acceleration or velocity type in which the trip lever causes a trip pawl to engage a projection on the turntable hub and start the mechanism into cycle. If the record being played causes the pickup arm to move inward at a constant rate without acceleration, a point will be reached where a constant-diameter trip is effected.

A well is provided on the record changer for storage of the centerpost when it is not in use. The centerpost may be firmly secured, after placing it in the well, by pushing down.

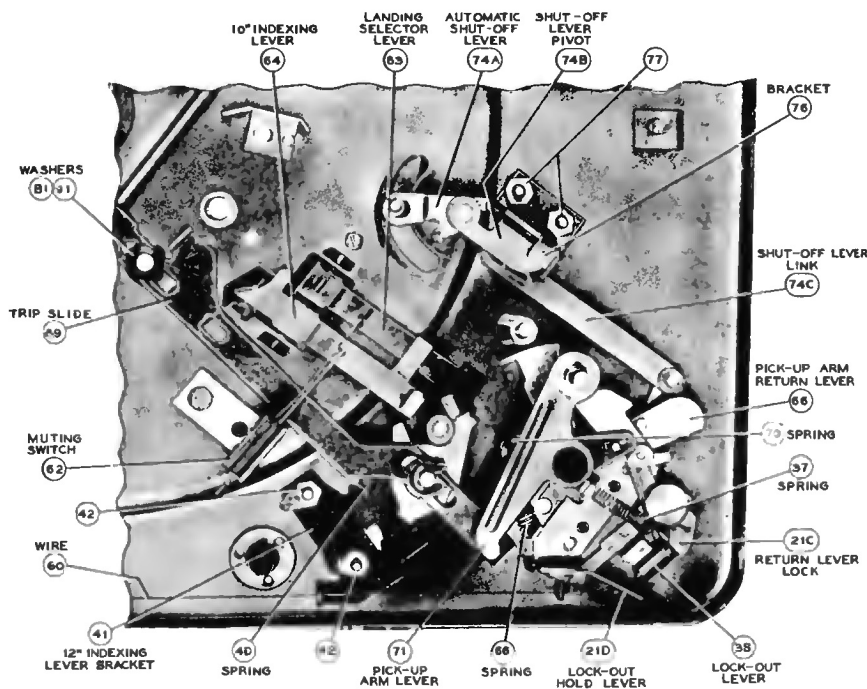


Figure 3—Partial Bottom View of RP-205-2 with Cycling Slide Removed

## RCA Victor Record Changers RP-205 Series, Continued

### ADJUSTMENTS

#### LANDING ADJUSTMENT (Fig. 4)

When the pickup arm is mounted the clamp screw should seat in the depression in the pickup arm lever shaft, then only one landing adjustment is necessary. The landing position of the stylus is adjusted by means of the slotted nut at the side of the pickup arm support bracket. When adjusted for correct landing on one size record (12" record preferably if convenient), the landing position for the other two sizes is automatically maintained.

Lift and turn the record stabilizer arm outward. Place a 12 inch or 78 rpm record on the turntable. Turn the speed control knob to the 78 rpm position and the control lever to the reject position. Rotate the turntable by hand until the stylus is just ready to set on the record. Then turn the landing adjustment screw so the stylus will set on the record midway between the outer edge and the starting groove.

Slight "touch up" or a compromise in this adjustment may be necessary so that the pickup will land correctly on all three size records when operating automatically.

#### PICKUP ARM HEIGHT ADJUSTMENT (Fig. 4)

The pickup arm height during cycle is adjusted by means of the hex head screw, located in the pickup arm.

Turn control knob to "REJ" and rotate turntable by hand until arm has risen to its maximum height. Adjust screw so that stylus is  $1\frac{3}{8}$ " above turntable.

#### RECORD DROPPING ADJUSTMENT

The eccentric stud (Ill. No. 101, Fig. 5) on the end of the cycling slide controls the time during cycle at which the record drops to the turntable.

Adjust the position of the stud so that the record drops to the turntable when the pickup arm has moved to its maximum

outward travel. If the record drops too soon it will strike the pickup arm. If timed too late the record may not drop.

#### 10" INDEXING LEVER ADJUSTMENT

The rubber tip (Ill. No. 85, Fig. 2) on the 10" indexing lever is molded onto a threaded shaft and provides a means of adjustment for proper indexing.

Adjust rubber tip so that it will be depressed at mid-cycle approximately  $\frac{1}{16}$ " by a 10" or 12" record when the record rests on the turntable. The rubber tip should not touch the record when the mechanism is out of cycle.

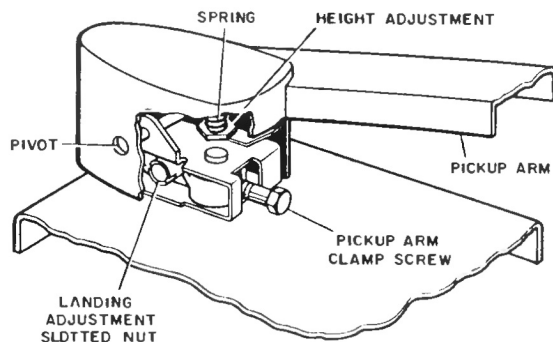


Figure 4—Pickup Arm Height and Landing Adjustments

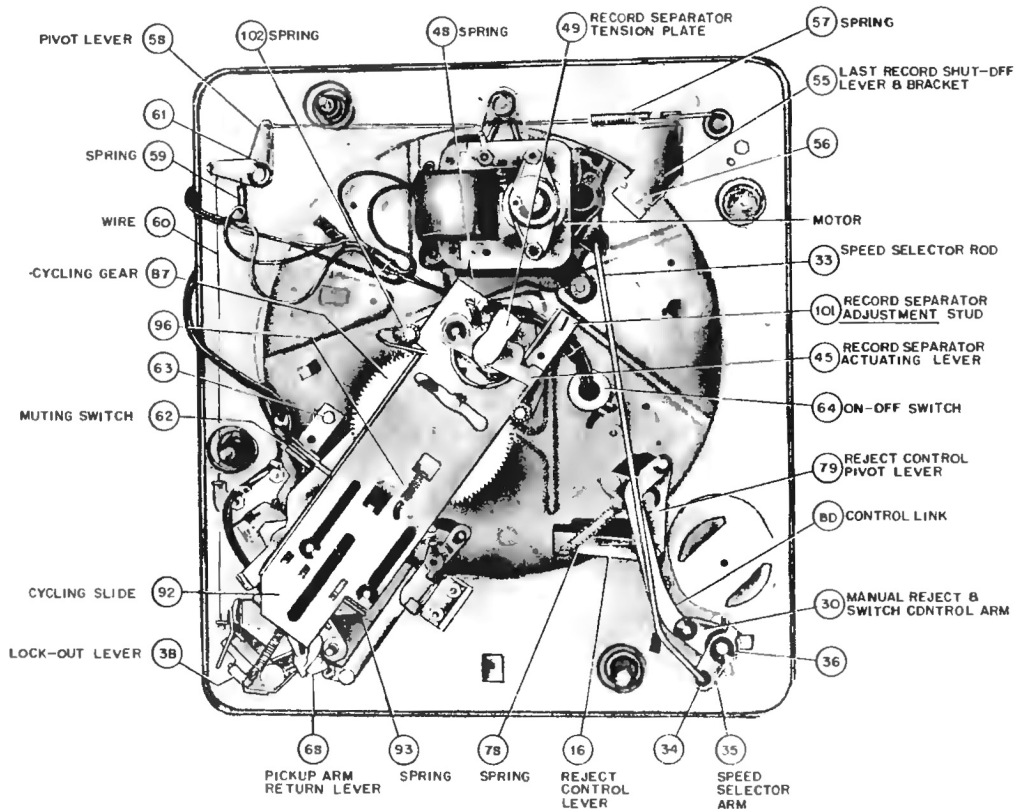


Figure 5—Bottom View of Mechanism RP-205-2

RP-205-1, RP-205-3 and RP-205-4 use a larger motor (4 pole) and a different speed control rod (item 33).  
RP-205A-1 and RP-205A-2 use a voltage change switch.

# RCA Victor Record Changers RP-205 Series, Continued

## CYCLE OF OPERATION

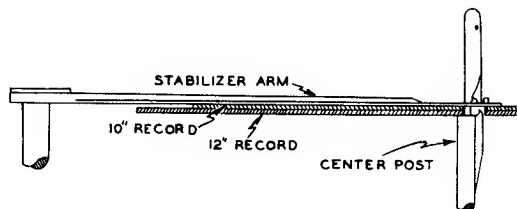
NOTE: In the cycle of operation it is assumed the mechanism has stopped automatically with the pickup arm on the rest.

### PRELIMINARY PROCEDURE

Place a stack of records (10" or 12") on the spindle (intermixed if so desired). Place the record stabilizer arm so it rests on the records.

OR

If playing 7 inch records first place the large centerpost over the regular spindle, then proceed as for large records.

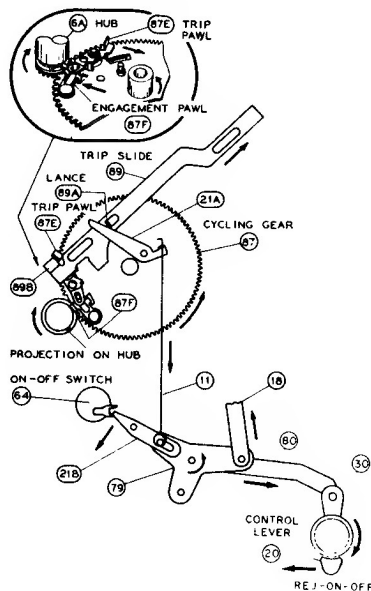


### MANUAL START

Push control lever (20) in a clockwise direction to the "On" position. This movement of the control lever through the linkage of levers (30, 80, 79 and 21B) results in actuating the power switch (64) and the motor starts running. Then push control lever further clockwise to "Rej." position and permit it to return to the "ON" position automatically.

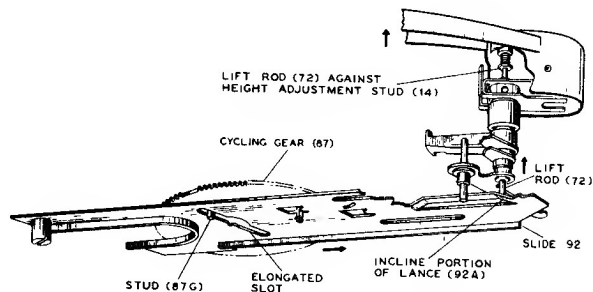
This movement of the control lever to the "Rej." position transmits a force from lever (21B) through wire (11) to lever (21A). The lever (21A) then contacts and applies force against turned up lance (89A) of trip slide (89) and pushes the trip slide in an outward direction away from the turntable spindle.

Tab (89B) of trip slide makes a contact with trip pawl (87E) thereby moving engagement pawl (87F) into position where it is in the path of the projection on the turntable hub. As the turntable rotates, the projection on its hub momentarily strikes the engagement pawl (87F) causing the cycling gear (87) to rotate sufficiently so that the cycling gear teeth and those of the hub (6A) will mesh.



### CYCLING STARTS

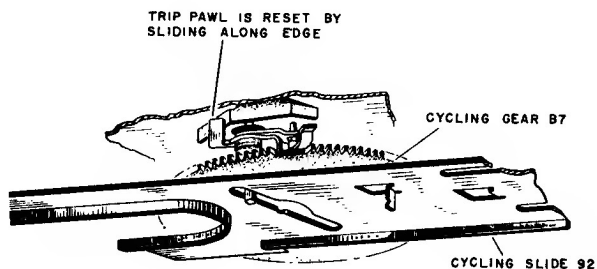
As the cycling gear (87) rotates, the stud (87G), which is mounted on the bottom of the gear and extends through and rides in the elongated slot in the cycling slide (92), pushes the slide outward away from the spindle.



### PICKUP ARM RISES AND MOVES OUT

Almost immediately after the slide starts on its outward movement the pickup arm lift rod (72) rides up the inclined portion of the lance (92A) forcing the lift rod upward against the height adjustment stud (14) causing the pickup arm to rise.

About this same time the cycling gear has rotated sufficiently for the trip pawl to slide over the edge of a small piece of metal extending from the bottom of the motor board and resets itself to prevent the mechanism from tripping continuously.

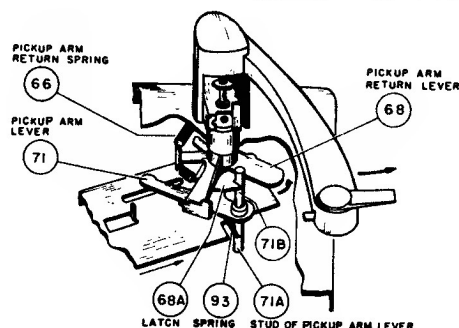


# RCA Victor Record Changers RP-205 Series, Continued

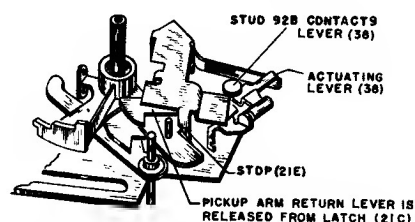
## CYCLE OF OPERATION (Cont.)

### PICKUP ARM RISES AND MOVES OUT (Cont.)

Further movement of the slide (92) results in a contact between the straight spring wire (93 attached to the slide) and the bottom stud (71A) on the pickup arm lever (71) thereby rotating the lever and starting the pickup arm on its outward movement. At this time the upper stud (71B) slides over latch (68A) and locks the pickup arm return lever (68) to the pickup arm lever (71). This locked condition causes both the pickup arm lever and the pickup arm return lever to rotate as a unit in opposition to the force applied by the pickup arm return spring (66). Since the pickup arm is connected to the pickup arm lever through the pickup arm shaft, the pickup arm follows.

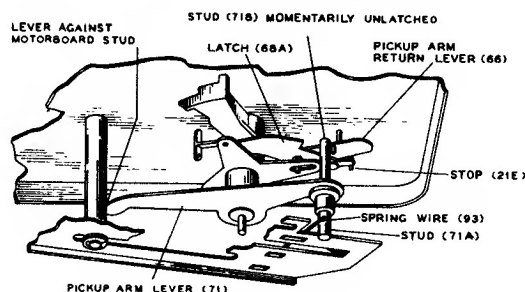


While the pickup arm lever and the pickup arm return lever are latching together, and the cycling slide is approaching the end of its outward travel the stud (92B) (mounted on cycling slide) contacts actuating lever (38) and unlatches (21C). It is important at this time to realize that the unlatching of (21C) is necessary for pickup to land on the record, it would otherwise land in the rest position.



As the slide reaches the extreme end of its outward travel (mid cycle position) the pickup arm lever (71) is pushed to a position where one end of the lever is against the stud (extending from the bottom side of the motor board) while the stud on the other end of the lever remains against the wire takeup spring (93).

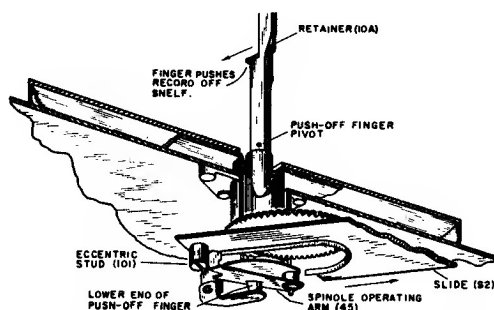
The pickup arm lever (71) held in this wedged position (when the pickup arm is in its outermost position) produces a positive stabilizing action for the pickup arm as the record drops to the turntable. However, to prevent erratic landing, it is necessary that latch (68A) remains latched so that pickup arm lever and pickup return arm lever remain coupled together as the pickup moves in for landing.



### RECORD DROPS TO TURNTABLE

Just before slide (92) reaches its maximum travel outward, the eccentric stud (101) (mounted on the under side of the slide) contacts and pushes spindle operating arm (45).

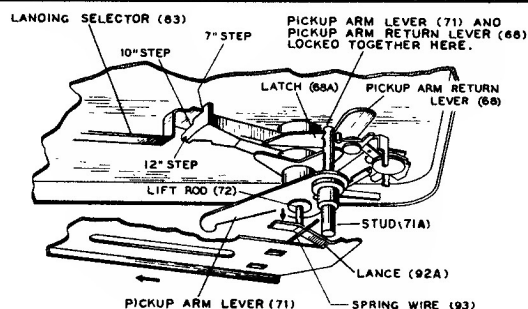
The lower end of the push-off finger, extending through the hole in the operating arm, rides along with the arm. Since the push-off finger is pivoted about a pin driven through the spindle, the upper end of the finger moves in a direction to push the record off the shelf of the spindle and the record drops to the turntable. The retainer (10A) effects record separation by blocking the adjacent record, thereby preventing it from being pushed off the shelf of the spindle. After the record drops to the turntable (mid-cycle position) the cycling slide (92) starts on its return trip to the normal out-of-cycle position.



### THE PICKUP LANDS ON RECORD

During the return travel of the cycling slide the wire spring (93) (attached to the slide) moves away from the stud (71A) (on the pickup arm lever) permitting the pickup arm lever and the pickup arm return lever (which are locked together) to direct the movement of the pickup arm inward.

The pickup arm is pushed inward by the pickup arm return lever, until the pickup arm return lever is blocked by the landing selector lever (83) which contacts one of three steps formed in the return lever. Each step corresponds to one of the three (7, 10 or 12 inch records) landing positions.



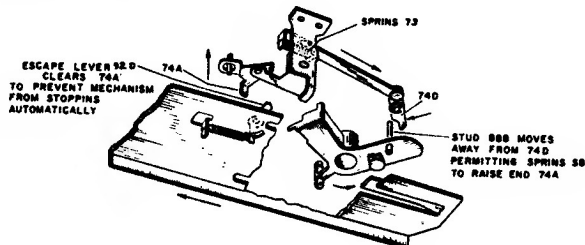
# RCA Victor Record Changers RP-205 Series, Continued

## CYCLE OF OPERATION (Cont.)

### THE PICKUP LANDS ON RECORD (Cont.)

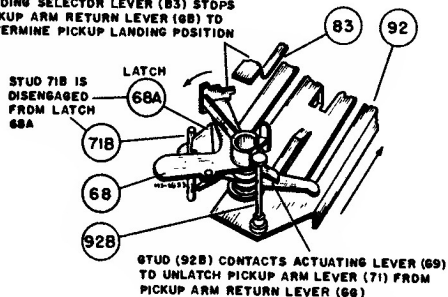
As the pickup arm return lever directs the movement of the pickup arm, the stud (68B) on the pickup arm return lever moves away and permits the spring (73) to raise the end (74A) (of switch link shut-off assembly) so as to clear the escape lever (92D). Otherwise the mechanism would actuate switch (64) and motor would stop.

When the pickup is directly above the landing position the cycling slide has returned sufficiently for the pickup arm lift rod to ride down the inclined portion of the lance in the slide and the pickup stylus rests on the start of the record.

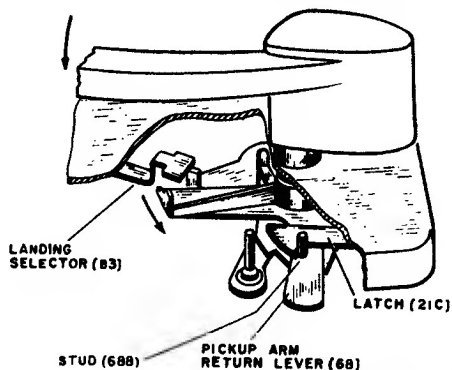


An instant before the pickup sets on the record, the stud (92B) located on the extreme end of the cycling slide contacts the end of the actuating lever (69), unlatching the pickup arm lever from the pickup arm return lever. This allows the pickup arm to become free in its movement at the time the stylus contacts the record. At this time the cycling cam has not quite completed its return travel.

LANDING SELECTOR LEVER (83) STOPS  
PICKUP ARM RETURN LEVER (68) TO  
DETERMINE PICKUP LANDING POSITION

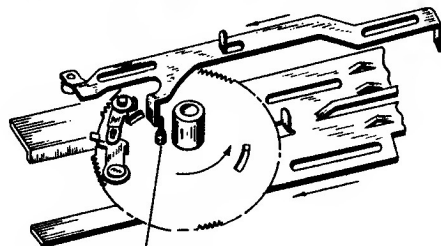


The remaining short travel results in the stud (92B) carrying the actuating lever (69) sufficiently that the pickup arm return lever is pulled away from the landing selector lever (83). The stud (68B) on pickup arm return lever (68) is then latched to pickup arm latch (21C) and remains latched throughout the playing cycle.



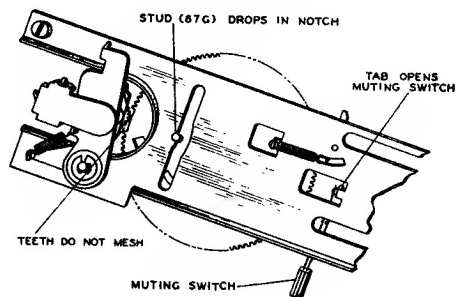
### CYCLING COMPLETED

As the cycling gear is completing its cycle, a stud (87H) located on the top of the cycling gear contacts and pulls the trip slide (89) back to the position for the next tripping.



The final phase of the change cycle is completed after the cycling gear has rotated sufficiently so that the teeth in the gear on the turntable hub run off the last tooth at the cut-away section of the gear. At this time the stud (87G) riding in the elongated slot in the cycling slide, drops into the stop notch and the cycling gear stops rotating.

The muting switch is opened at this time by a tab on the cycling slide.

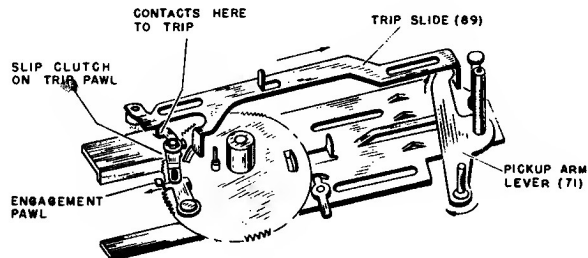


# RCA Victor Record Changers RP-205 Series, Continued

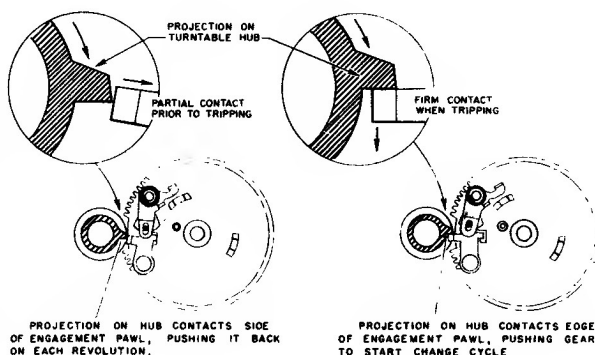
## CYCLE OF OPERATION (Cont.)

### RECORD PLAYS

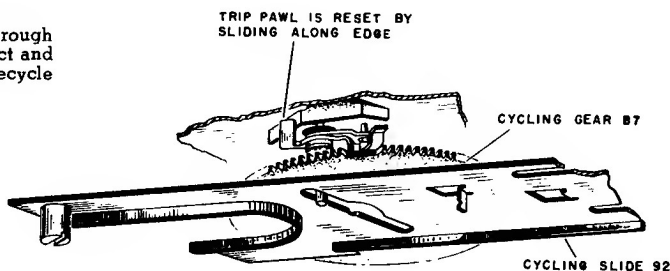
As the record plays and the pickup moves inward, the pickup arm lever (71) contacts trip slide (89) and pushes the slide outward away from the center post. The other end of the trip slide contacts and moves trip pawl which, through a friction clutch arrangement, moves trip engagement pawl.



While the record continues to play the pickup moves in at a constant rate of speed until the sloped side of the engagement pawl lightly contacts the projection on the turntable hub. When this contact occurs the engagement pawl is pushed back with each rotation of the turntable, providing the pawl has not moved in so far that the contact is made on the leading edge. If the inward movement of the pickup should accelerate rapidly, as it does when the stylus leaves the recorded section and enters the eccentric groove of the record, the trip engagement pawl moves in too far before the turntable has made a complete revolution; consequently the projection on the turntable hub makes contact on the side of the engagement pawl. This firm contact rotates the cycling cam sufficiently to have the teeth of the turntable hub and the cycling gear engage to start a change cycle. This tripping procedure is referred to as an acceleration trip. However if the pickup continues to move inward at a constant rate, there is a limit at which the edge of the engagement pawl will make a firm contact with the projection on the turntable hub and a constant diameter trip is effected.



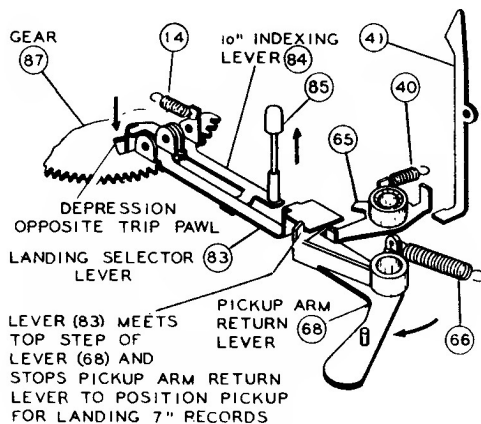
As the cycling cam is carrying the mechanism through cycle a tab on the bottom of the motorboard will contact and reset the trip pawl mechanism so the changer will not recycle without playing the next record.



### INDEXING FOR PICKUP LANDING POSITION

As stated previously the pickup landing position for 7, 10 and 12 inch records is determined by the contact of the landing selector lever (83) and the various steps in the pickup arm return lever.

There are two depressions (lances) in the cycling cam that play an important function in pickup landing position indexing. The depression located adjacent to the trip pawl mechanism provides a means of indexing for 7" records. This is accomplished by permitting the end of the 10" indexing lever (84) to drop down in the depression as the cam rotates causing the other end to push the landing selector lever (83) upward as far as it will go. The pickup arm return lever will then make contact with the landing selector lever (83) on the upper step and the pickup will land on the start of a 7" record.

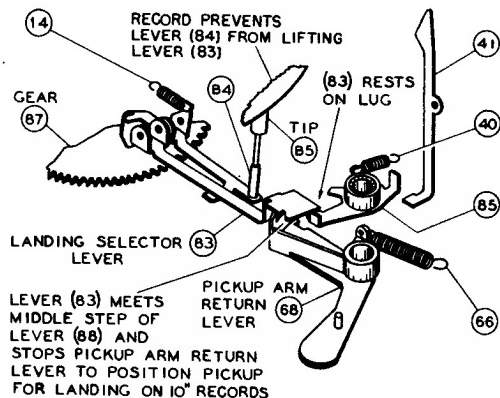


# RCA Victor Record Changers RP-205 Series, Continued

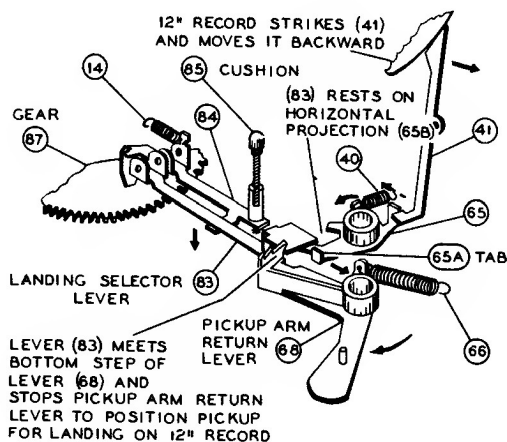
## CYCLE OF OPERATION (Cont.)

### INDEXING FOR PICKUP LANDING POSITION (Cont.)

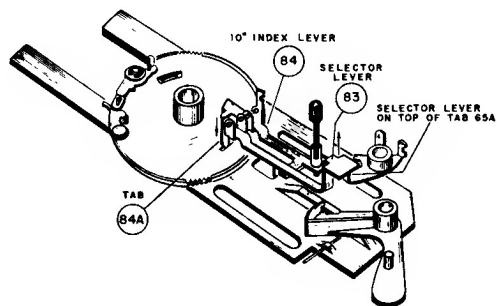
When either a 10" or a 12" record is lying on the turntable the rubber end of the 10" indexing lever (84) is prevented from rising even though the other end of the lever tends to drop into the depression in the cam. Consequently the landing selector lever is only pushed up far enough, that the pickup arm return lever makes contact with the second step and the pickup will land on a 10" record.



However if a 12" record drops to the turntable the edge of the record strikes the 12" indexing lever (41) and causes the other end of the lever to rotate the selecting lever (65) sufficiently to permit landing selector lever (83) to drop off the tab (65A) and land on tab (65B). With the landing selecting lever in this position, it will make contact with the lower step in the pickup arm return lever stopping the pickup arm on its inward movement, so the pickup will then land on the start of a 12" record.



The other depression (lance) opposite the trip pawl mechanism provides a means of raising the end of the indexing selector (83) to the top of the tab (65A) so the landing is automatically returned to the 10" landing position. This means of automatically returning the pickup landing to 10" position makes it possible to play 10" and 12" records intermixed.

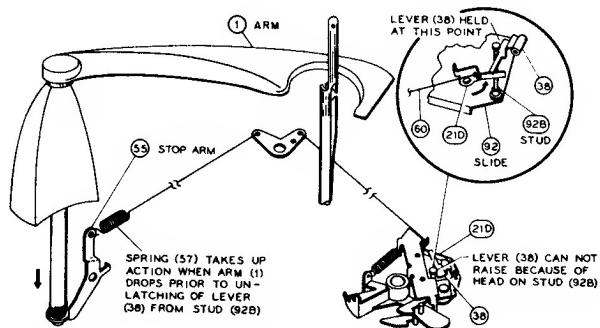


### STARTING PROCEDURE OF "LAST-RECORD-STOP"

The stabilizer arm not only performs the function of stabilizing the records setting on the spindle shelf but it also serves the purpose of actuating the automatic stopping feature.

As the last record of the stack drops to the turntable the record stabilizer arm (1) drops and actuates the stop arm (55). This stop arm in turn applies force to the stop lever (21D) through spring (57), lever 58 and connecting wire (60). At this moment the cycling slide has reached its outermost position and the end (21D) is pushing upward on escape lever (38) but is held from doing so by the knobbed end on the stud 92B which retards the movement of the escape lever (38) until the cycling slide has started on its return trip.

The escape lever then raises and the pickup lands and plays the last record.



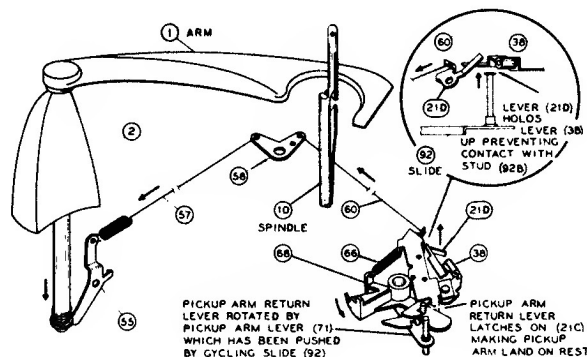
## RCA Victor Record Changers RP-205 Series, Continued

### CYCLE OF OPERATION (Cont.)

#### MECHANISM STOPS AUTOMATICALLY AFTER PLAYING LAST RECORD

After the last record is played, the mechanism goes into the change cycle and as the cycling slide approaches its outermost position, the knobbed end of the stud (92B) slides underneath and fails to contact the escape lever (38) so the latch (21C) remains latched. The pickup arm return lever is locked in position and cannot direct the pickup arm inward.

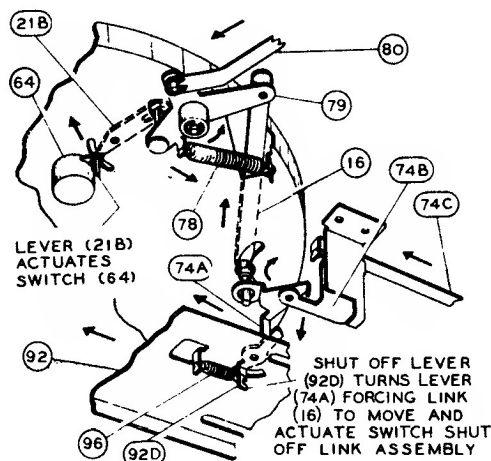
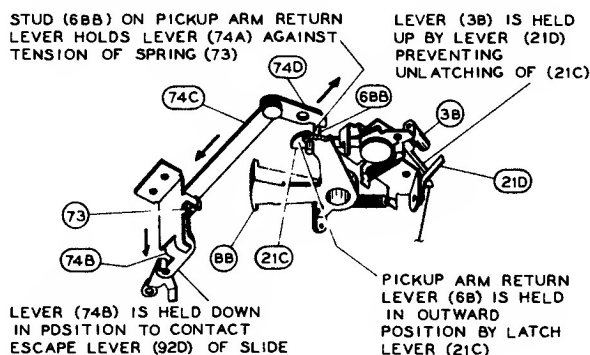
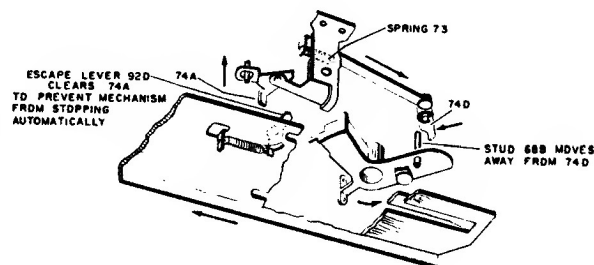
The pickup arm will therefore remain in a position directly above the rest and when the elevating rod slides down the incline portion (92A) of the slide, the pickup arm sets on the rest but the turntable continues to rotate for an instant until the shut-off switch is actuated as described in the following paragraph.



When the mechanism is going through a change cycle (stack of records supported on spindle) and the automatic stopping device has not been actuated, the pickup arm return lever rotates to push the pickup in for landing.

At this time the stud (68B) on the pickup return lever moves away from lever (74D) on the end of the switch link shut-off assembly and the tab (74A) on the other end of the assembly is pulled up by the tension of spring (73). While this tab (74A) is up and the cycling slide is returning to normal position, the escape lever (92D) passes under the tab and the power switch is not actuated.

However when the pickup arm return lever is latched the lever assembly (74C & D) is held in position so that the tab (74A) is down and the escape lever (92D) pushes against the tab as the cycling slide passes by. When these two points meet the motion is transferred to the control arm lever train and actuates the power switch (64) and the power is removed from the motor.



#### LUBRICATION

The mechanism is properly lubricated when it leaves the factory, additional lubrication should not be necessary for a long period of time.

A light machine oil (Singer sewing machine oil or equivalent) should be used to oil the bearings of the drive motor.

On all other bearing surfaces use \*STA-PUT No. 320 or equivalent lubricant sparingly.

Apply a medium weight clinging type of grease (\*STA-PUT

No. 512 or COSMOLUBE No. 1) to points of sliding contact including tabs of cycling gear.

It is important that the drive motor spindle, all rubber tires and the inside rim of the turntable be kept clean and free of oil and grease.

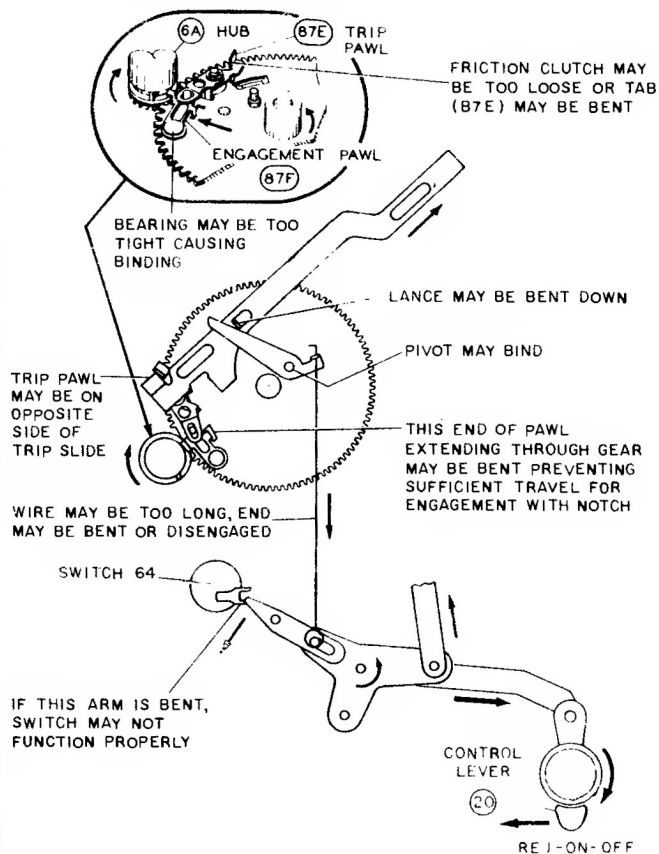
Carbon tetrachloride or naphtha is recommended for cleaning these parts.

\*STA-PUT and COSMOLUBE can be purchased from E. F. Houghton & Co., 303 W. Lehigh Ave., Philadelphia, Pa. and their distributors.

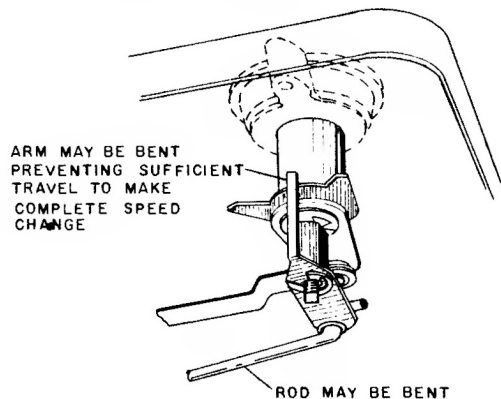
# RCA Victor Record Changers RP-205 Series, Continued

## SERVICE HINTS

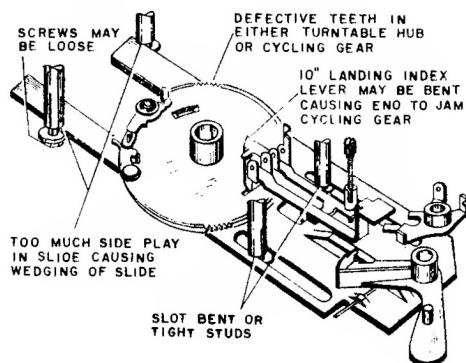
### REJECT CONTROL DOES NOT FUNCTION PROPERLY



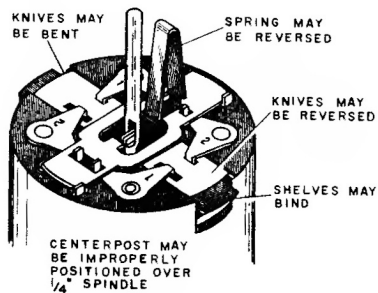
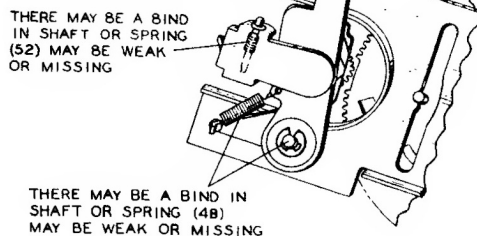
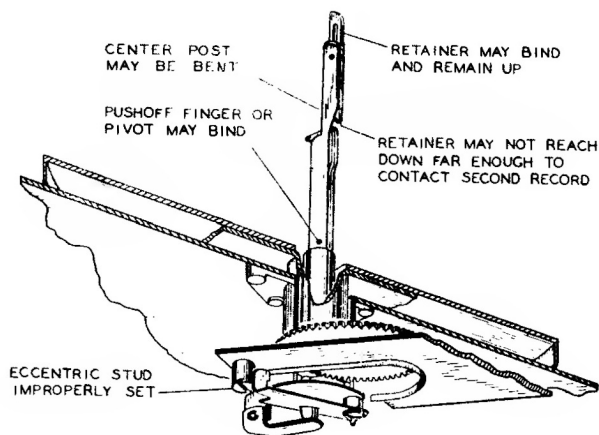
### ERRATIC SPEED CHANGE



### MECHANISM JAMS

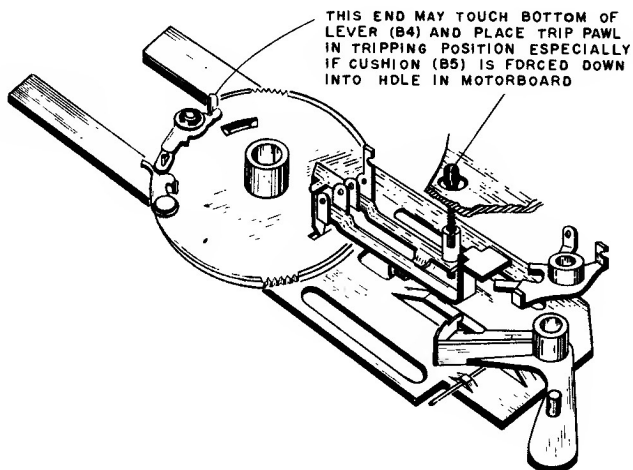
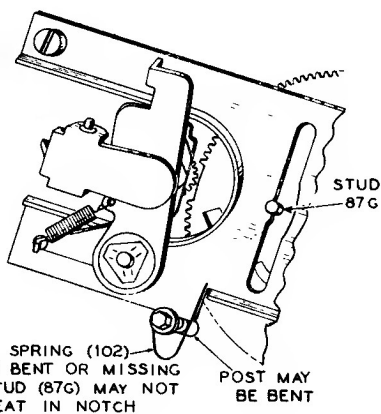
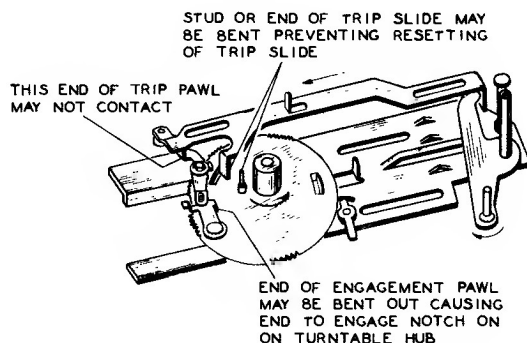
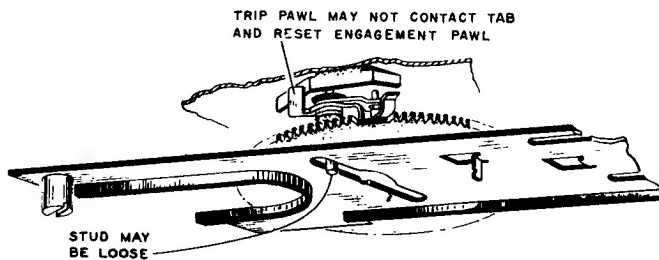
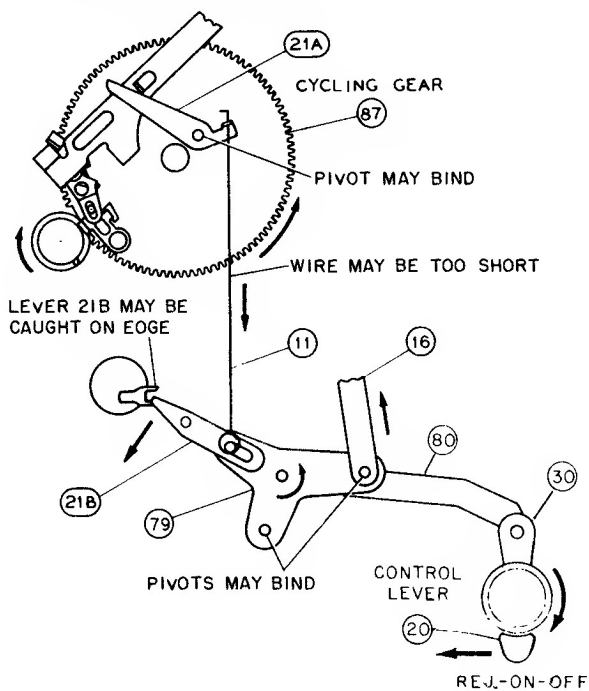


### RECORDS FAIL TO SEPARATE PROPERLY

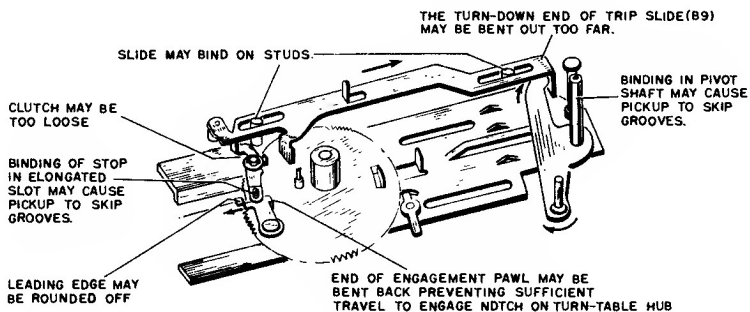
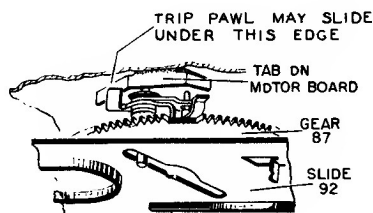


## SERVICE HINTS

### CONTINUOUS TRIPPING



### FAILS TO TRIP AUTOMATICALLY



## SERVICE HINTS

**CORDS**

1 ARM

2

57

58

60

LEVER MAY BIND IN PIVOT

LEVER MAY BIND AND STAY DOWN

55

60

21D

38

92B

92

SLIDE

LEVER (21D) HOLDS UP PREVENTING CONTACT WITH STUD (92B)

LEVER (21D) MAY REMAIN UP DUE TO BIND IN PIVOT

LEVER (38) MAY REMAIN UP DUE TO BIND IN PIVOT THEREFORE PICK-UP ARM RETURN LEVER FAILS TO UNLATCH FROM (21C)

NOTE :- IF PLAYING 7 IN. RECORDS  
ARM (1) MAY TOUCH THE LARGE  
DIAMETER CENTERPOST AND FAIL TO  
DROP AFTER THE LAST RECORD HAS  
DROPPED TO THE TURNTABLE

1

2

WIRE MAY BE TOO LONG

SHAFT MAY BIND IN SLEEVE

58

57

A BIND IN PIVOT MAY PREVENT ARM (1) FROM DROPPING

55

SPRING MAY BE STRETCHED OR MISSING

PIVOT MAY BIND

60

THIS END MAY BE BENT FAILING TO RAISE LEVER (38) SUFFICIENTLY TO CLEAR STUD (92B)

60

38

21D

92B

92

SLIDE

BIND IN PIVOT MAY PREVENT LEVER (21D) FROM RISING

21D

LATCH (21C) MAY BIND IN PIVOT OR ITS RETURN SPRING (37) MAY BE MISSING

38

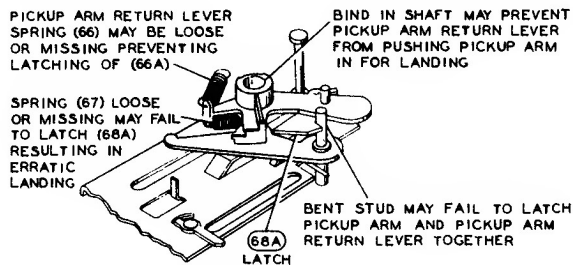
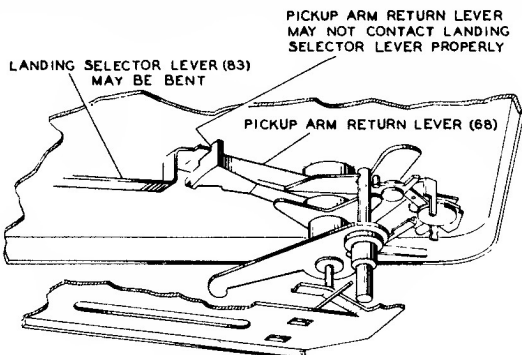
STUD MAY BE BENT AND NOT CONTACT (74D) ON END OF SWITCH LEVER ASSEMBLY

74D

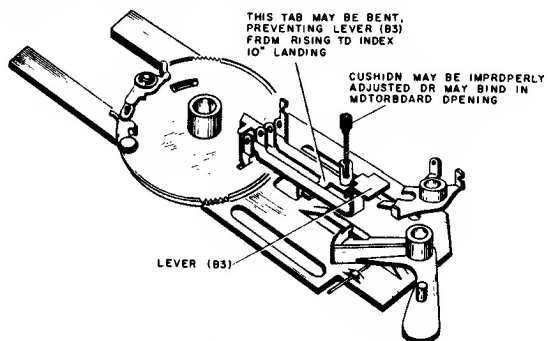
Diagram of the rear of the control unit. Labels include: STUD 6BB MAY SLIDE UNDER 74D, 74D, 68B, 21C, END OF LEVER MAY BE BENT, 21B, 64, SWITCH MAY BE DEFECTIVE, 7B, 74A, 16, MAY BECOME UN-HOOKED, TAB MAY BE BENT PREVENTING CONTACT.

## SERVICE HINTS

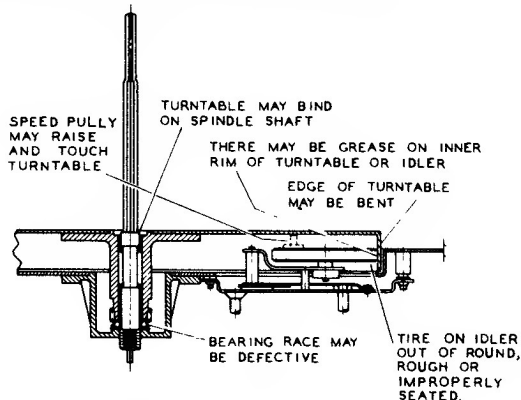
### PICKUP FAILS TO LAND PROPERLY ON 7"-10"-12" RECORDS



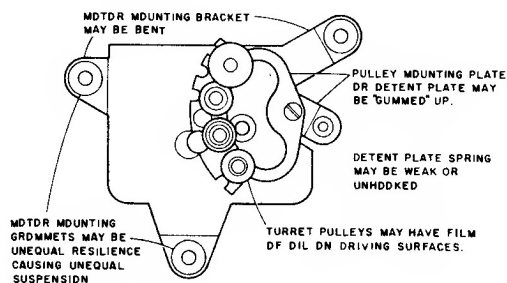
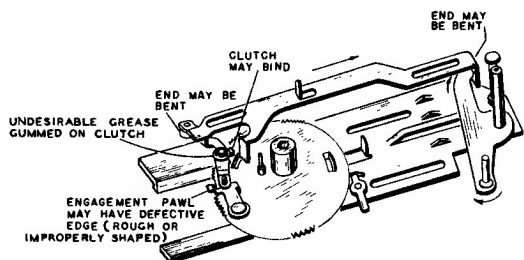
### PICKUP LANDS IN 12" POSITION WHEN PLAYING 10" RECORDS



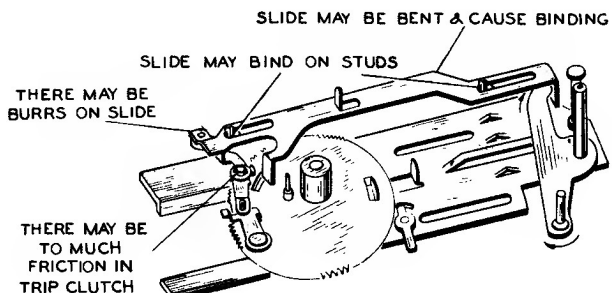
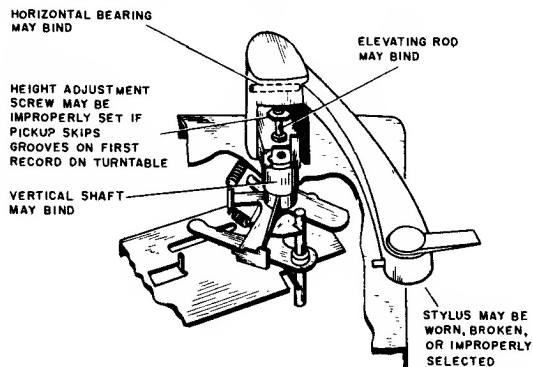
### "WOW" OR TURNTABLE SPEED VARIATION



### PREMATURE TRIPPING



### PICKUP SKIPS GROOVES



## RCA Victor Record Changers RP-205 Series, Continued

### CONTROLS

The record changer is provided with a dual control located in the right hand corner of the motor board and a stylus selector control located on the pickup arm.

The outer portion of the dual control provides a means of controlling the operation of the mechanism while the inner control governs the turntable speed.

By turning the outer control to the "ON" position, the turntable starts rotating. By turning the control one step further in a clockwise direction to the "REJ" position and permitting the knob to return to the "ON" position, the complete automatic operation of the mechanism is started.

The mechanism will stop automatically after the last record has been played but if desired, can be stopped by turning the control counter-clockwise to the "OFF" position and placing the pickup on the rest.

The inner or motor speed control makes possible the selection of one of four speeds, by rotating the knob to the proper position.

The speed control should be turned to the "N" position (midway between "45" and "78") to remove the force of the motor shaft against the idler wheel when the changer is not expected to be used for an extended period of time.

The stylus control for models using the ceramic pickup (#100653) has two positions. One position with the control lever to the right ("78" showing) selects the .003" stylus for

78 r.p.m. records, with the lever to the left ("MG" showing) the .001" stylus is selected for 16 $\frac{2}{3}$ , 33 $\frac{1}{3}$  and 45 r.p.m. records.

The stylus control for the variable reluctance pickup used with Model RP-205-3 has two positions (right and left). The arrow on the knob points to the stylus in use.

Two plug-in heads are supplied for use with Model RP-205-1. The head in use is secured to the pickup arm by a thumbscrew on the underside of the arm. One head is equipped with a .001" diamond stylus and is used for playing 16 $\frac{2}{3}$  r.p.m., 33 $\frac{1}{3}$  r.p.m. or 45 r.p.m. records. The other head is equipped with a .003" synthetic sapphire stylus and is used for playing 78 r.p.m. records only.

The removable centerpost is for use with 16 $\frac{2}{3}$  or 45 r.p.m. records having the large centerhole. It must be placed over the center spindle with the word "FRONT" FACING to the FRONT. Care should be exercised in placing and removing centerpost so as to prevent damage to smaller spindle.

A well is provided on the motorboard for storage of the centerpost when not in use. The centerpost may be firmly secured, after placing it in the well, by pushing down until a slight "click" is heard. It may be necessary to twist slightly while pushing down. To remove centerpost from well, twist slightly until centerpost "pops up."

To load or remove records, lift and turn the record stabilizer arm off to the side. After loading, the stabilizer arm should be turned to the center so it rests on the stack of records.

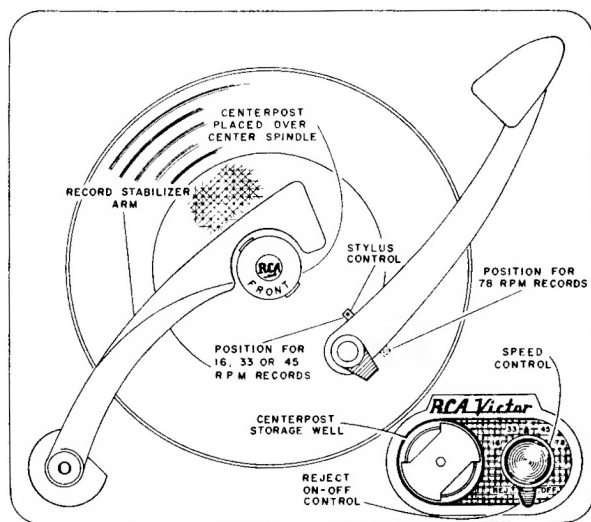


Figure 8—Controls (Ceramic Pickup)

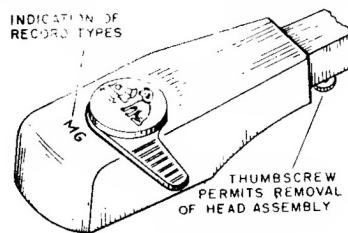


Figure 8A—Moving Coil Pickup

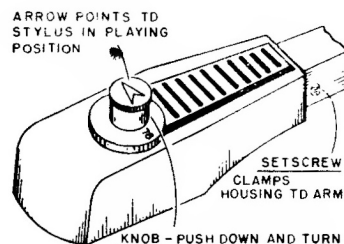


Figure 8B—Variable Reluctance Pickup

### STYLUS REPLACEMENT

#### CERAMIC PICKUP #100653

The dual stylus used in this pickup is held in position by a spring clamp. To remove styli simply lift spring clamp and stylus will drop out. When inserting new stylus make certain the wire bridge holding the stylus assembly is engaging the drive arm to the cartridge element.

#### VARIABLE RELUCTANCE PICKUP MI-12110-A and MI-12112-A

The dual stylus assembly is held in position by a "C" ring retainer. Remove "C" ring, spring and washer; then push stylus through the cartridge.

The two styli mounted on the stylus assembly are of the "clip-in" type and may be individually replaced.

#### MOVING COIL PICKUPS #102955 and #102956

The styli used in these pickups are not designed for field replacement.

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION
		16 2/3/45 R.P.M. CENTERPOST
1	79096C	Centerpost—Centerpost assembly complete
1	100499	Cap—Nose cap—red—polystyrene
1	100500	Cap—Nose cap—black—polystyrene
1A	100501	Spring—Nose cap spring, 5/16" wide
2	100498	Spring—Slide return spring, 1 1/4" long, 1/4" wide
3	100494	Slide—Record separators actuator slide
4	100497	Sleeve—Actuating lever mounting sleeve
5 & 6	100495	Lever—Slide actuating pivot lever—L.H. & R.H. (1 set)
7	100493	Knife—Record separator knife (1 set)
8 & 9	100491A	Shelf—Record support shelves—L.H. & R.H. (1 set)
10	100492	Spring—Record support shelf spring
11	101566A	Body—Centerpost body assembly
12	100502	Screw—4-24 x 1 3/8" S.T.
13	100503	Washer—Flat metal washer 1" O.D., .814 I.D., .005" thick
14	101567	Rotor—rotor
15	100504	Spring—Rotor lift spring (coil) 2 3/4 turns
16	100505A	Lift—Rotor lift—black metal
17	100506	Retainer—Rotor lift retainer (12 teeth)

## OPERATION OF 16 2/3—45 R.P.M. CENTERPOST

In the out-of-cycle position (playing), the records with 1 1/2" centerhole rest upon the protruding shelves of the centerpost (knives are retracted).

When the mechanism goes through cycle, the record push-off finger in the 1/4" center spindle pushes against the actuator slide. This slide actuates two pairs of pivot levers. One pair of these levers pull the shelves inward (downward projections of pivot levers extend through long slots of knives and engage in short slots of the shelves). The other pair of levers push the separator knives outward (downward projections of pivot levers engage small holes in knives—long slot of shelves allow freedom of movement).

Two small coil springs push outward on the shelves and thus return them to the normal outward position. A formed metal spring extending up into the nose cap returns the slide to its normal position.

In the normal position the stack of records is supported by the shelves. During cycle the separator knives are extended first and then the shelves are retracted. The knives extend into the opening between the bottom record and the one adjacent; thus supporting all but the bottom record. When the shelves retract the bottom record falls to the turntable.

Careless placement or removal of the centerpost on the center spindle may result in bending of the center spindle. The centerpost should be placed on or removed from the center spindle with a STRAIGHT VERTICAL MOTION. The word "FRONT" should always face to the front of the record changer.

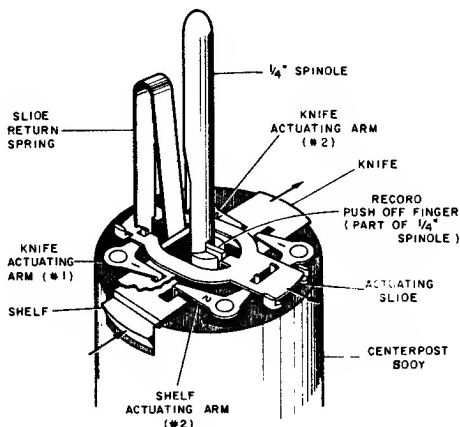


Figure 9—Centerpost Operation

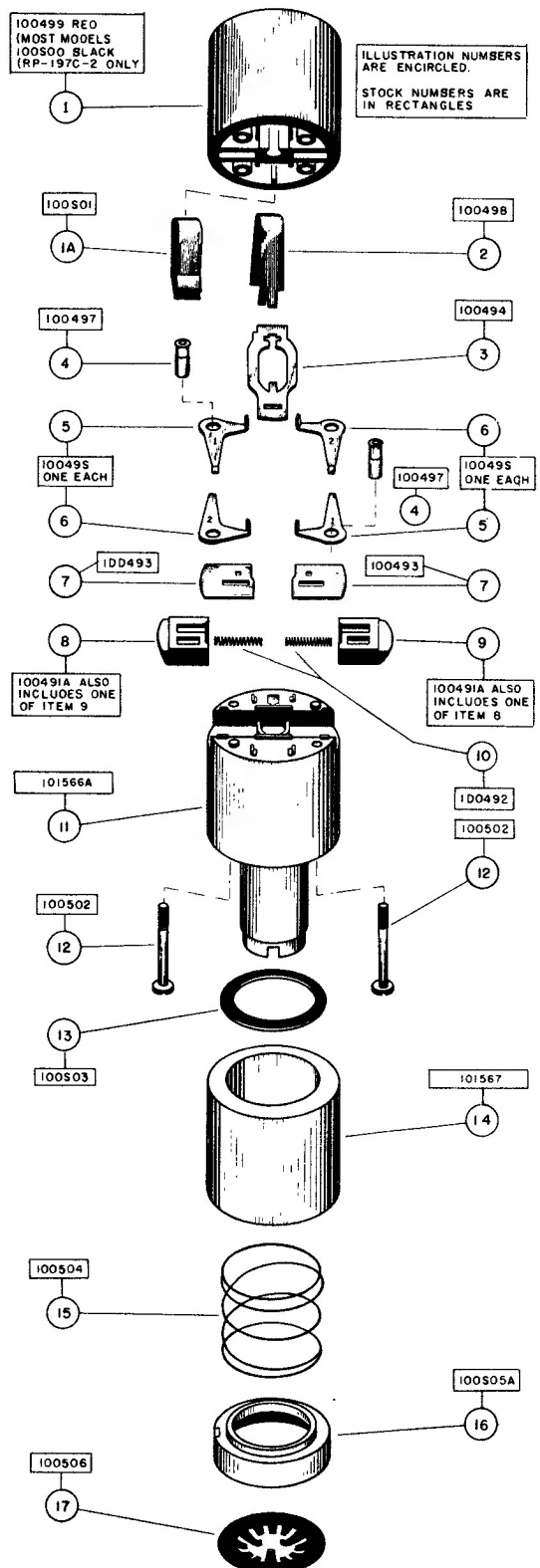


Figure 10—16 2/3—45 r.p.m. Centerpost

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION
		MOTOR ASSEMBLY Stamped: 936173-1 190 (115 v., 60 cycle) REFER TO FIG. 11
1	102934	Wheel—Idler wheel
2	75433	Washer—Thrust washer
3	102935	Retainer—Hairpin spring retainer for idler wheel
4	102936	Plate—Idler wheel support plate
5	78647	Washer—Flat metal washer for idler wheel support
6	78646	Retainer—Hairpin spring retainer for idler wheel support
7	78648	Link—Idler wheel support link
8	78764	Spacer—Idler support spacer
9	78374	Spring—Idler support spring
10		Screw—Turret pulley guide plate screw
11	102937	Guide—Guide for turret pulley mounting plate
12	102936	Spacer—Spacer for turret pulley mounting guide
13		Nut—Hex. head nut
14	76751	Grommet—Rubber grommet for motor mounting
15	76749	Spring—Spring pulley for motor shaft
16	76755	Spring—Detent spring
17	102940	Plate—Speed pulley mounting plate (less pulleys)
18	102943	Pulley—78 RPM pulley
19	102942	Pulley—45 RPM pulley
20	102941	Pulley—33 1/2 RPM pulley
21	102944	Pulley—16 RPM pulley
22	101584	Washer—Felt washer for turret pulleys
23	75427	Retainer—"C" type retaining ring for speed pulleys
24		Screw—For speed shift mounting plate
25		Washer—Lockwasher
26	102939	Lever—Speed shift lever
27	77134	Collar—Speed shift lever mounting collar (nut)
	102641	Motor—4 speed motor assembly complete—115 volts—60 cycles.

ILL. NO.	STOCK NO.	DESCRIPTION
		MOTOR ASSEMBLY Stamped: 936173-1 107 (115 v., 60 cycle) REFER TO FIG. 12
1	102968	Wheel—Idler wheel
2	78509	Washer—Fiber washer
3	78652	Washer—"C" type retaining washer
4	102969	Plate—Idler plate assembly
5	78517	Link—Idler link
6	78515	Washer—Metal washer
7	78512	Spring—Idler spring
8		Screw—Hold down plate mounting screw (#6-32)
9	102970	Plate—Hold down plate
10	78520	Spring—Shifter latch spring
11	78518	Arm—Pulley plate latch arm
12	78514	Grommet—Motor mounting grommet
13	78519	Spring—Pulley latch spring
14	78528	Washer—Speed pulley fiber washer
15	78525	Pulley—33 1/2 RPM pulley assembly
16	78526	Pulley—45 RPM pulley assembly
17	78527	Pulley—78 RPM pulley assembly
18	102972	Pulley—16 RPM pulley assembly
19	102974	Lever—Speed shift lever
20	78621	Lever—Latch arm lever
21	79967	Sleeve—Sleeve pulley for 60 cycle operation
22	78522	Sleeve—Sleeve pulley for 60 cycle operation
23	102973	Retainer—Pulley retainer ("C" ring)
	102971	Plate—Speed pulley mounting plate (less pulleys)
	102541	Motor—4 speed motor assembly complete—115 volts—60 cycles

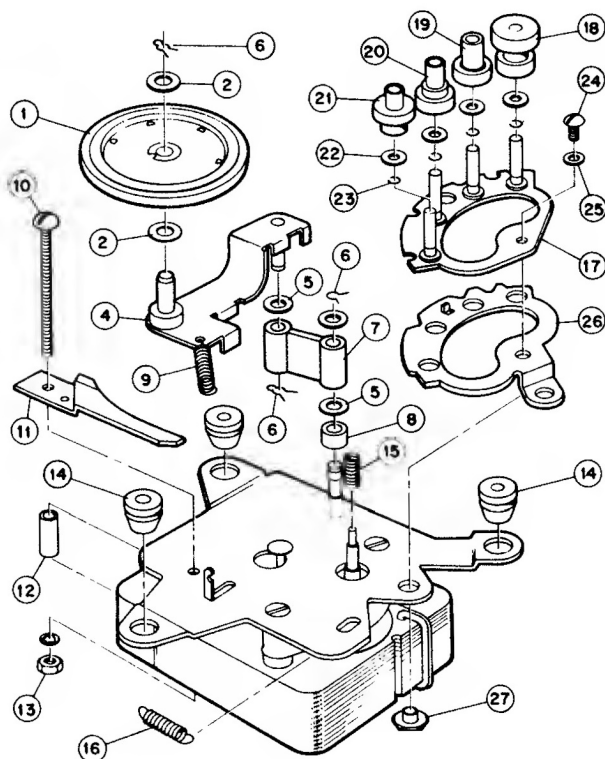


Figure 11—Motor Assembly Stamped 936173-1 190

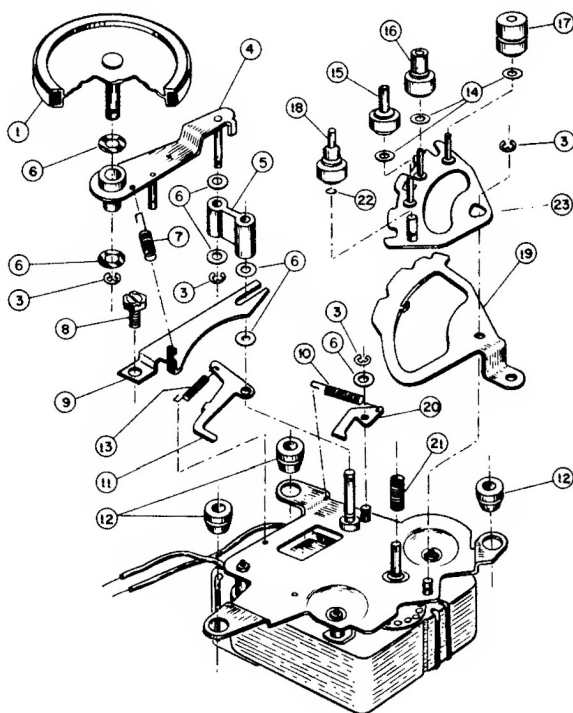


Figure 12—Motor Assembly Stamped 936173-1 107

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION
<b>MOTOR ASSEMBLY</b>		
Stamped: 971592-1 107 115/230 v. 60 cycle 972592-2 107 115/230 v. 50 cycle REFER TO FIGURE 12		
Same as listed for motor stamped 936173-1 107 except:		
17	100989	Spring—Spring sleeve for 50-cycle operation
17	100988	Spring—Spring sleeve for 60-cycle operation
	102900	Motor—115v./230v., 60-cycle motor complete
		Motor—115v./230v., 50-cycle motor
Use 102900 Motor and 100989 Spring		
<b>MOTOR ASSEMBLY</b>		
Stamped: 971584-1 115 volt, 60 cycle REFER TO FIGURE 13		
1	102934	Wheel—Idler wheel
2	75433	Washer—Flat metal washer for idler wheel mounting
3	102935	Retainer—Hairpin spring retainer for idler wheel
4	102936	Plate—Idler wheel support plate
5	78374	Spring—Idler wheel tension spring
6	78648	Link—Idler wheel support link
7	78647	Washer—Flat metal washer for idler support
8	78646	Retainer—Hairpin spring retainer for idler wheel mounting plate & support
9	78764	Spacer—Idler support spacer
10	102937	Guide—Guide for turret pulley mounting plate
11	102938	Screw—Turret pulley mounting plate screw
12	102943	Washer—Lockwasher
13	102943	Pulley—78 RPM turret pulley
14	102942	Pulley—45 RPM turret pulley
15	102941	Pulley—33 1/2 RPM turret pulley
16	102957	Pulley—16 1/2 RPM turret pulley
17	101564	Washer—Felt washer for turret pulleys
18	75427	Retainer—Pulley retainer ("C" ring) for turret pulleys
19	102940	Screw—Round head screw for pulley mounting plate
20	102958	Plate—Turret pulley mounting plate
21	102960	Lever—Speed shift lever
22	102960	Sleeve—Sleeve pulley for motor shaft (16 1/2 r.p.m. operation)
23	102959	Pulley—Motor shaft pulley—less set screw
24	78767	Screw—Set screw for motor shaft pulley
25	102961	Screw—Flat head screw for motor mounting plate
26	102961	Screw—Round head machine screw for motor mounting plate
27	76751	Grommet—Rubber grommet for motor mounting plate
28	77134	Washer—Lock washer for motor mounting plate
29	76755	Collar—Speed shift lever collar (nut)
30	76755	Spring—Detent spring
31	102961	Plate—Motor mounting plate only
	102919	Motor—Motor assembly complete—115 volt, 60 cycle—4 pole, 4 speed
115 volt, 50 cycle conversion parts		
22	103026	Sleeve—Sleeve pulley for motor shaft (16 1/2 r.p.m. operation)—replaces #102960
23	103027	Pulley—Motor shaft pulley—less setscrew—replaces #102959
	79249	Resistor—Flexible wire-wound resistor, 60 ohms, ±10%, 5 watt (used in series with motor winding)

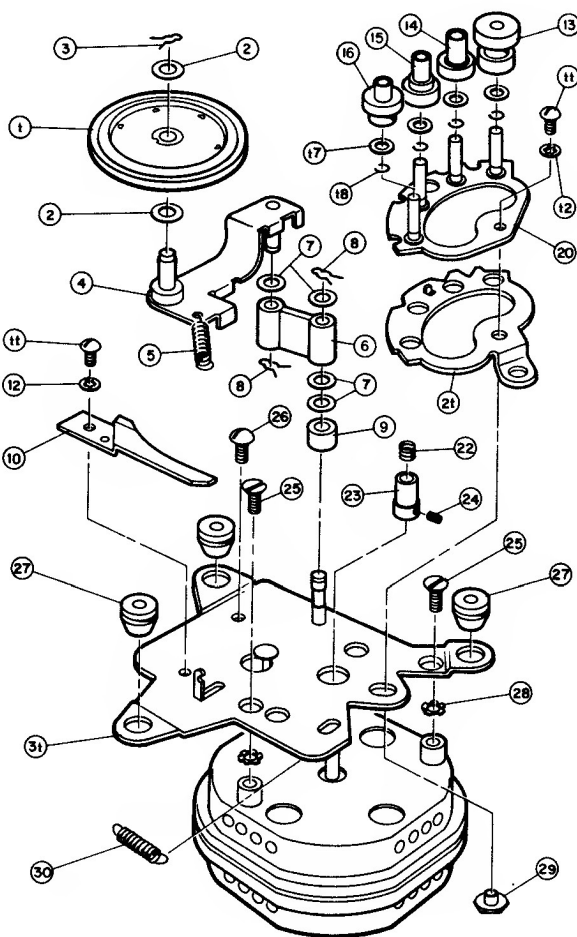


Figure 13—Four-Pole Motor Assembly (Stamped 971584-1)

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION
1	102524	Arm—Stabilizer arm assembly—complete with shaft, pin and gold finish cap—antique white—for all models except RP-205-1
1	102931	Arm—Stabilizer arm assembly complete with shaft, pin and gold finish cap—satin brass—for RP-205-1
1A	102525	Cap—Aluminum cap—polished gold finish—for stabilizer arm
1B	100994	Ring—"O" type rubber cushion ring for stabilizer arm
2	102540	Support—Stabilizer arm support—satin gold finish—for all models except RP-205-1
2	102928	Support—Stabilizer arm support—lustrous aluminum finish—for RP-205-1
3	78708	Spring—Return spring for stabilizer arm
4	102535	Washer—Flat washer for stabilizer arm shaft. (5/16" O.D. x .188" I.D. x .0825")
5	33726	Washer—"C" type retaining washer. (.406" O.D. x .125" I.D.)
6	102535	Turntable—Metal turntable—antique white enamel—less support and mat—for RP-205-2, RP-205A-1, RP-205A-2
6	102927	Turntable—Metal turntable—charcoal grey—with rubber mat, brass center disc and turntable support—for RP-205-1 and RP-205-3
6	102963	Turntable—Metal turntable—charcoal grey with rubber mat, brass center disc and turntable support—for RP-205-4

6A	102536	Support—Turntable support and pinion complete with brass bearing for turntable Stock No. 102535
6B	102537	Nut—#8-32 hex nut for mounting turntable support
6C	102537	Mat—Rubber mat for turntable Stock No. 102535
7	78654	Ring—Retaining ring for turntable assembly
8	78720	Washer—Felt washer for turntable thrust bearing #78660 (2 req'd)
9	78660	Bearing—Thrust bearing for turntable
10	79242A	Spindle—Spindle assembly
11	102533	Wire—Reject operating wire
12	74337	Nut—Speed nut for switch & reject lever assembly Ill. #79
13	78659	Pin—Bearing pin for landing selector levers Ill. #88 & #64
14	78747	Spring—Coil spring for motorboard assembly (.200" O.D., .531" free length, 13 turns)
15	78709	Spring—Return spring for landing selector lever
16	102530	Link—Reject link with studs
17	78649	Washer—Flat washer for pickup arm pivot shaft
18	35969	Washer—"C" type retaining washer for pickup arm lever Ill. #71. (.500" O.D., .183" I.D.)
19	102528	Knob—Speed control knob and shaft assembly
20	102527	Lever—"On-Off Rej." control lever and shaft assembly
21	102539	Motorboard—Motorboard assembly complete with stabilizer support, arm rest, cable clamps, and all welded and/or staked parts—satin gold finish—for all models except RP-205-1

# RCA Victor Record Changers RP-205 Series, Continued

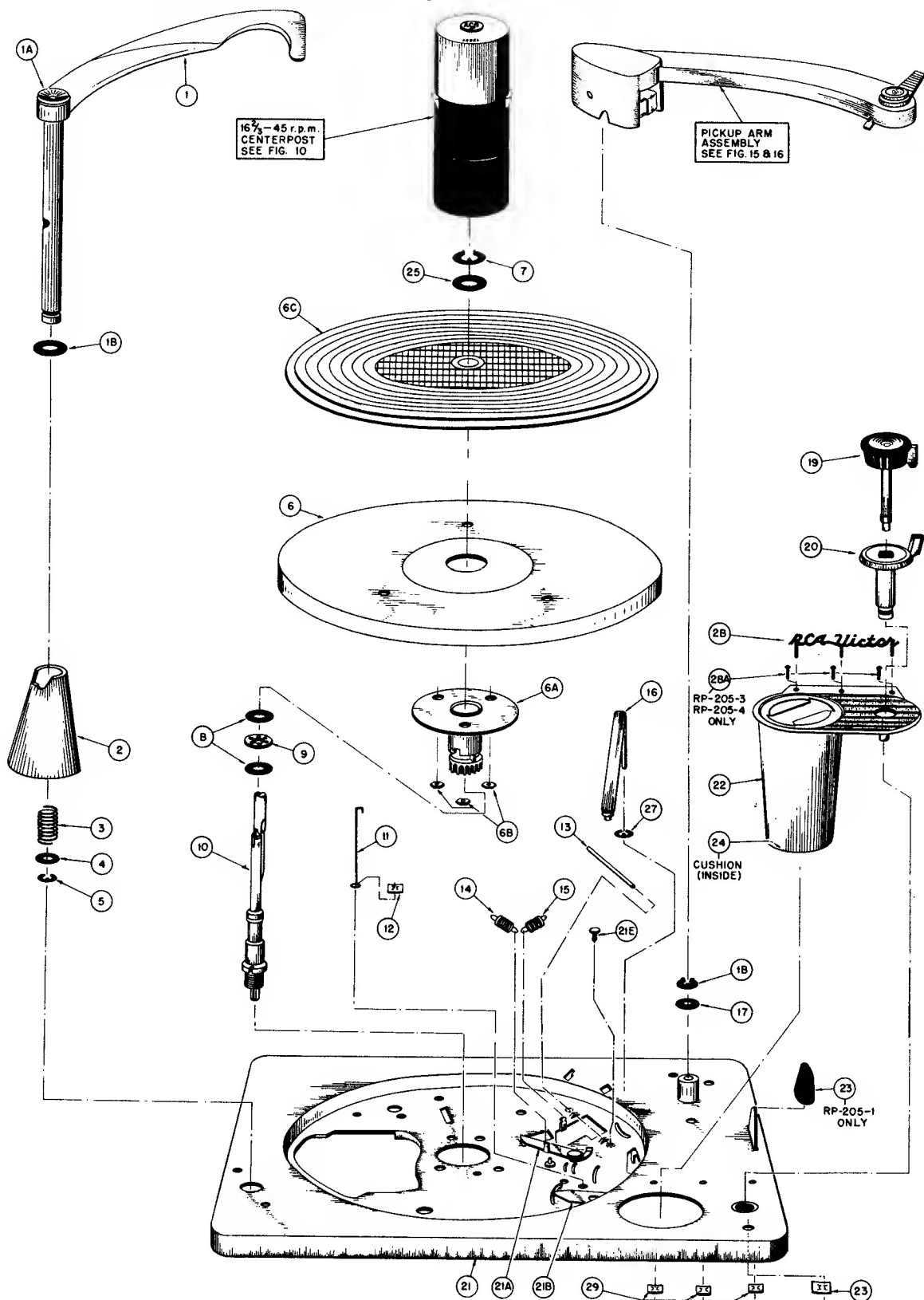


Figure 14A—Exploded View Showing Mechanism Parts Above Motor Board

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION
21	102924	Motorboard—Motorboard assembly complete with stabilizer support, arm rest, cable clamps, and all welded end/or staked parts—lustrous aluminum finish—for RP-205-1
21A	.....	Lever—(pt. of Motorboard)
21B	102544	Lever—Switch actuating lever with mounting stud (Pt. of Motorboard)
21C	78669	Lever—Pickup arm latch lever assembly (Part of Motorboard)
21D	.....	Screw—H.H.S.T. #4 x 1/4"
21E	.....	Screw—S.T.F.T. hd. #8 x 3/4" (Pt. of Motorboard)
21F	.....	Escutcheon—Polystyrene control escutcheon & centerpost well—antique white with gold markings—for all models except RP-205-1
22	102526	Escutcheon—Polystyrene control escutcheon and centerpost well—metalized gold & charcoal grey with gold markings—for RP-205-1
23	74340	Nut—Speednut, retainer for control escutcheon
24	102536	Cushion—Foam rubber pad—antique white—for centerpost well
25	103164	Washer—Black neoprene washer
26	101199	Bumper—Rubber insulating bumper for pickup arm rest—for RP-205-1
27	33726	Washer—"C" type retaining washer (2 req'd) for link III. #16
28	77033	Nameplate—"RCA Victor" nameplate—gold finish—for RP-205-2, RP-205A-1 and RP-205A-2
28	102925	Nameplate—"RCA Victor" nameplate—charcoal gray—for RP-205-1
28A	102962	Pin—Retaining pin for escutcheon—brass—for RP-205-3 and RP-205-4 (3 req'd)
29	77013	Nut—Speednut, retainer for nameplate or for retaining pins (3 req'd)
30	78688	Lever—Reject lever arm assembly complete with stud
31	76221	Washer—"C" type retaining washer for control lever III. #20
32	33726	Washer—"C" type retaining washer (.406" O.D. x .129" I.D.)
33	102926	Rod—Motor speed selector rod for RP-205-1, RP-205-3 and RP-205-4
33	102534	Rod—Motor speed selector rod for RP-205-2, RP-205A-1 and RP-205A-2
34	33139	Grommet—Rubber grommet for motor speed shift lever
35	102531	Lever—Motor speed shift lever
36	35969	Washer—"C" type retaining washer for knob shaft (.500" O.D. x .183" I.D.)
37	78688	Spring—Return spring for pickup arm latch (.200" O.D. x .718" free length)
36	78658	Lever—Actuating lever for pickup arm latch
39	78651	Washer—"C" type retaining washer
40	78712	Spring—Index lever return spring
41	100723	Lever—Index lever assembly—chrome plated—12" records landing selection
42	.....	Nut—#6-32 Nut for mtg. index lever III. #41 (2 req'd)
43	78656	Bracket—Spindle mtg. bracket assembly complete with stud
44	100342	Nut—1/2"-32 retaining nut for spindle III. #10
45	78670	Arm—Spindle operating arm assembly
46	79092	Washer—Flat metal washer for spindle mtg. bracket III. #43 (9/16" O.D. x .158" I.D.)
47	33726	Washer—"C" type retaining washer (.406" O.D. x .125" I.D.)
46	78711	Spring—Return spring for spindle operating arm
49	78657	Lever—Spindle reset lever
50	78694	Pin—Pivot pin for spindle reset lever
51	78661	Washer—"C" type retaining ring for pivot pin III. #50 (2 req'd)
52	78745	Spring—Actuating spring for reset lever
53	33726	Washer—"C" type retaining washer (.406" O.D. x .125" I.D.) (3 req'd)
53A	75749	Washer—Flat washer for motor mounting (3 req'd)
54	33136	Grommet—Rubber grommet for motor speed selector rod
55	78674	Lever—Shut-off lever assembly
56	.....	Screw—#8 x 3/8" hex head S.T. screw for shut-off lever assembly III. #55
57	78681	Spring—Shut-off lever spring
58	78675	Arm—Transfer arm for shut-off mechanism
59	78714	Spring—Return spring for transfer arm
60	78679	Wire—Shut-off wire
61	35969	Washer—"C" type retaining washer for transfer arm III. #58 (.500" O.D. x .183" I.D.)
62	78676	Switch—Muting switch assembly
63	.....	Screw—H.H.S.T. #8 x 3/8" screw for muting switch
64	76301	Switch—"On-Off" switch—SPST
65	78661	Lever—Landing selector lever
66	78713	Spring—Return spring for pickup arm return lever
67	78699	Spring—Return spring for pickup arm return lever actuating lever
68	78655	Lever—Pickup arm return lever assembly
69	78724	Lever—Actuating lever assembly for pickup arm return
70	78653	Ring—Retaining ring for pickup arm return actuating lever III. #69

ILL. NO.	STOCK NO.	DESCRIPTION
71	79091	Lever—Pickup arm lever
72	78672	Rod—Pickup arm lift rod
73	78699	Spring—Return spring for switch shut-off link
74	78695	Link—Switch shut-off link assembly
75	78651	Washer—"C" type retaining washer for switch shut-off link bracket III. #76
76	78664	Bracket—Switch shut-off link bracket
77	.....	Nut—#6-32 nut for mtg. switch shut-off link bracket III. #76 (2 req'd)
78	78710	Spring—Return spring for switch and reject lever
79	102529	Lever—Reject & switch control pivot lever with studs
80	102532	Link—Control link for "On-Off-Rej."
81	100157	Washer—Flat washer for mounting trip slide lever III. #89
82	35969	Washer—"C" type retaining washer for reject control pivot lever III. #79
83	78689	Lever—Landing selector lever
84	78690	Lever—Index lever for 10" records—with adjustable cushion
86	100913	Cushion—Rubber cushion & screw assembly for index lever III. #84
86	78721	Washer—Flat washer for landing control bearing pin III. #13 (3 req'd)
87	78691	Gear—Cycling gear—less pawl levers
87A	78651	Washer—"C" type retaining washer
87B	79240	Washer—Flat washer for trip pawl pressure spring
87C	78727	Spring—Trip pawl pressure spring
87D	78725	Lever—Trip pawl actuating lever
87E	78726	Lever—Trip pawl intermediate lever
86	35969	Washer—"C" type retaining washer for spindle mounting bracket III. #43 (.500" O.D. x .183" I.D.)
89	78688	Lever—Trip slide lever
90	78719	Washer—Flat washer for mounting trip slide lever III. #89
91	33726	Washer—"C" type retaining washer for trip slide lever III. #89 (2 req'd) (.406" O.D. x .125" I.D.)
92	79794	Slide—Cycling slide assembly
93	.....	Wire—Steel wire for slide (.059" dia. x 2 1/4")
94	75749	Washer—Flat washer for slide assembly (79794) (2 req'd)
95	33726	Washer—"C" type retaining washer (.406" O.D. x .125" I.D.) (2 req'd)
96	78705	Spring—Actuating spring for escape shut-off lever (Part of III. #92)
97	.....	Washer—#6 flat washer (3 req'd) for slide mounting
98	.....	Lockwasher—Ext. #6 for slide mounting (7 req'd)
99	.....	Screw—H.H. #6-32 x 5/16" screw for slide mounting (2 req'd)
100	74431	Washer—Spring retaining washer for eccentric stud (Part of III. #92)
101	78685	Stud—Eccentric stud for drop adjustment (Part of III. #92)
102	79352	Spring—Formed wire spring for slide assembly
103	100735	Support—Spindle bearing support
104	.....	Screw—#6-32 x 5/16" screw for mounting support III. #103
105	78653	Ring—Retaining ring for landing selecting lever III. #65
106	77586	Washer—"C" type retaining washer for link III. #74
107	100987	Spring—Tension spring for pickup arm latch actuating lever III. #36
108	100986	Plate—Spacer plate under switch shut-off link bracket III. #76
<b>MISCELLANEOUS</b>		
74545	.....	Cable—Shielded audio cable (66 in.) with pin plug—for RP-205-3 and RP-205-4
73805	.....	Capacitor—Fixed, paper, .0047 mf, ±20%, 1000 v.—for RP-205A-1 and RP-205A-2
79149	.....	Capacitor—Fixed, paper, 0.1 mf, ±20%, 600 v. (part of click filter)—for RP-205-1, RP-205-3 and RP-205-4
100211	.....	Connector—Closed end connector (small) for power leads
101825	.....	Connector—Closed end connector (large) for power leads
30868	.....	Connector—2-Contact female connector for power leads—for Models 7-HF-4Q and 7-HF-5Q
30870	.....	Connector—2-Contact male connector for power leads—for Models 7-HF-2 and 7-HF-3
100510	.....	Connector—4-Contact male connector for power leads—for Models 7-HF-4 and 7-HF-5
70392	.....	Cord—Power cord (6 ft.) with standard two prong plug—for RP-205-3 and RP-205-4
31048	.....	Plug—Single-pin plug for audio cable
74192	.....	Plug—3-prong plug for audio cable
502068	.....	Resistor—Fixed, composition, 86 ohm, ±10%, 1/2 watt (part of click filter)—for RP-205-1, RP-205-3 and RP-205-4
32827	.....	Switch—Voltage selection switch (117 v./234 v.)—for RP-205A-1 and RP-205A-2
101741	.....	Clip—Pickup arm retaining clip—for RP-205-6 only
<b>MOUNTING HARDWARE</b> (as supplied with RP-205-3 and RP-205-4)		
76894	.....	Nut—Spring nut
78840	.....	Spring—Conical spring
79094	.....	Stud—Mounting stud
78642	.....	Washer—Fiber washer

# RCA Victor Record Changers RP-205 Series, Continued

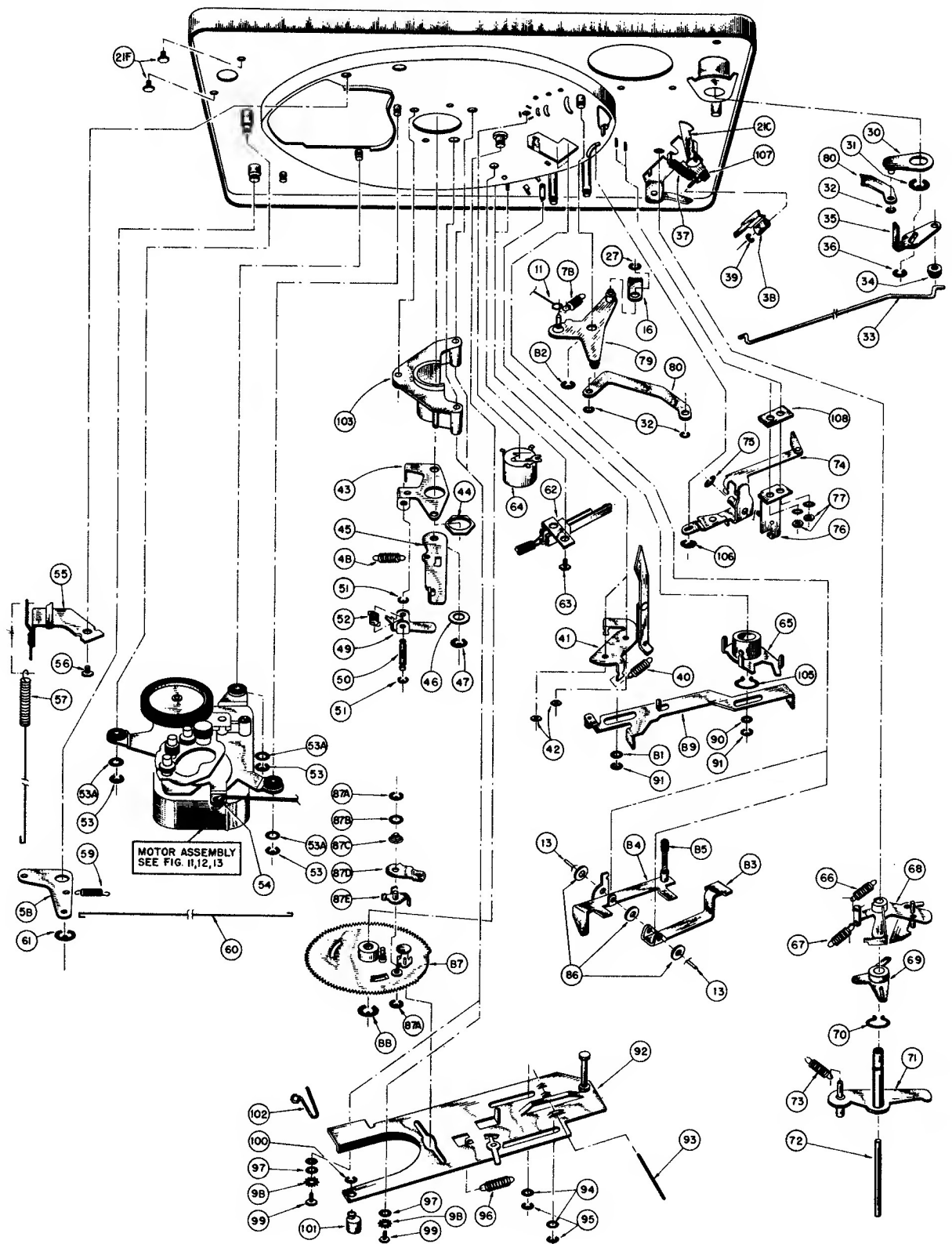


Figure 14B—Exploded View Showing Parts Below Motor Board

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION	ILL. NO.	STOCK NO.	DESCRIPTION
		<b>PICKUP &amp; ARM ASSEMBLIES</b> For: RP-205-2 RP-205-6 RP-205A-1 RP-205A-2	7	79449	Cable—Pickup shielded cable complete with terminals
1	102473	Arm—Pickup arm shell only, with counterbalance spring retainer—aluminum—antique white	8	74337	Nut—Speed nut to hold cable (2 req'd)
3	102542	Emblem—Trademark emblem—black over polished brass—for RP-205-2	9	102474	Pivot—Bearing for pivot shaft
3	102902	Monogram—"RCA" trademark monogram—for RP-205A-1 and RP-205A-2	10	102475	Shaft—Pivot shaft
4	102543	Lift—Pickup arm lift, aluminum—polished gold finish	11	78736	Spring—Spring for height adjustment screw (6 turns)
5	100653	Pickup—Ceramic pickup with dual stylus	12	78740	Screw—Hex. hd. #6-32 height adjustment screw
5A	78827	Stylus—Dual stylus assembly with two synthetic sapphire styli	13	101265	Spring—Counterbalance spring
6	74410	Screw—Pickup mounting screw—#4-40 fillister head	14	102472	Bracket—Mounting bracket for pickup arm
			15	100999	Spring—Landing adjustment screw spring (4 turns)
			16	78732	Collar—Pickup arm mounting collar—less screw
			17	79245	Screw—#10-32 set screw for pickup arm collar
			18	101270	Nut—Split nut for pickup arm landing adjustment
			19	—	Washer—Flat metal washer, bearing for landing adjustment nut (2 req'd)
				101741	Chip—Pickup arm retaining chip—for RP-205-6 only

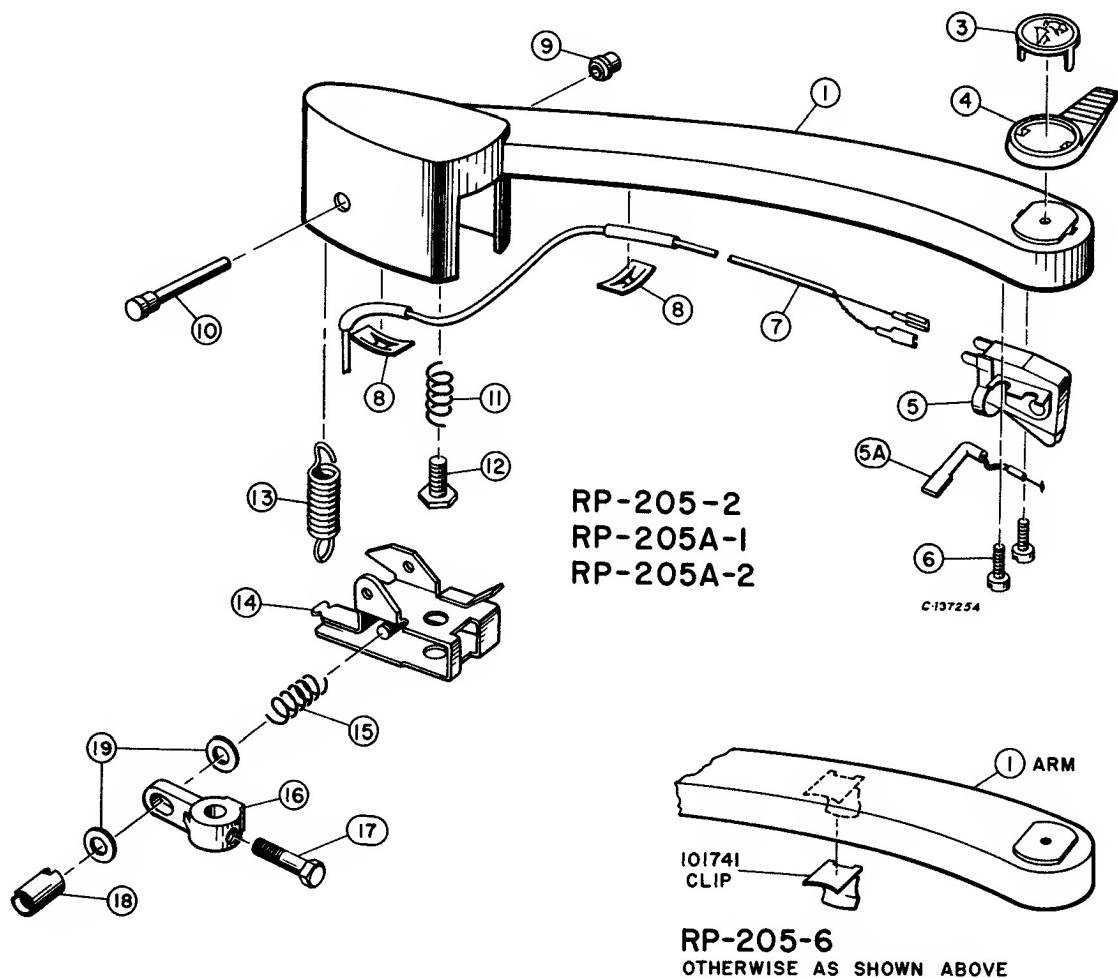


Figure 15—Pickup & Arm Assembly for RP-205-2, RP-205-6, RP-205A-1 and RP-205A-2

# RCA Victor Record Changers RP-205 Series, Continued

## REPLACEMENT PARTS

ILL. NO.	STOCK NO.	DESCRIPTION	ILL. NO.	STOCK NO.	DESCRIPTION
		<b>PICKUP &amp; ARM ASSEMBLIES</b> For: RP-205-1 RP-205-3 (MI-12807-A) RP-205-4 (MI-12820-B)			
1	102930	Arm-Pickup arm shell only—less detachable pickup housing—with counterbalance spring retainer—charcoal gray—for RP-205-1	3	100653	Pickup—Ceramic pickup with dual synthetic sapphire stylus—for RP-205-4
1	102966	Arm-Pickup arm shell only—less detachable pickup housing—with counterbalance spring retainer—charcoal gray—for RP-205-3	3A	MI-12111-A	Stylus—Stylus assembly for MI-12110-A pickup—complete with 1-mil diamond and 3-mil synthetic sapphire clip-in styli
1	102964	Arm-Pickup arm shell only—less detachable pickup housing—with counterbalance spring retainer—antique white—for RP-205-4	3A	MI-12113-A	Stylus—Stylus assembly for MI-12112-A pickup—complete with 1-mil and 3-mil synthetic sapphire clip-in styli
1A	100747	Screw—#6-32 pickup head retaining thumbscrew—for RP-205-1	3AA	101672	Stylus—"Clip in" 3-mil synthetic sapphire stylus for MI-12110-A & MI-12112-A pickups
1A	78767	Screw—#6-32 x 1/4" lg. pickup head retaining setscrew—for RP-205-3 and RP-205-4	3AB	211951	Stylus—"Clip-in" 1-mil diamond stylus for MI-12110-A pickup
1B	101271	Connector—2 contact female connector—pickup arm to pickup head—for RP-205-1	3AB	101671	Stylus—"Clip-in" 1-mil synthetic sapphire stylus—for MI-12112-A pickup
2	102920	Housing—Pickup head housing—charcoal gray—with lift (less pickup & emblem)—for RP-205-1	3A'	78827	Screw—Duel synthetic sapphire stylus—for RP-205-4
2	102967	Housing—Pickup head housing—charcoal gray—for RP-205-3	4	78772	Spring—Tension spring for mounting of MI-12111-A and MI-12113-A stylus assemblies
2	102965	Housing—Pickup head housing—antique white—for RP-205-4	5	78773	Washer—Flat metal washer for mounting of MI-12111-A and MI-12113-A stylus assemblies
2A	102542	Emblem—Trademark emblem—for RP-205-1	6	78774	Washer—"C" washer for mounting of MI-12111-A and MI-12113-A stylus assemblies
2A	100923	Monogram—Trademark monogram—for RP-205-4	7	100581	Screw—#4-40 x 5/16" fil. hd. pickup mounting screw (2 req'd)—for RP-205-1
2B	103029	Escutcheon—Stylus indicator escutcheon—for RP-205-3	7	100745	Screw—#4-40 x 1/4" fil. hd. pickup mounting screw (2 req'd)—for RP-205-3
2C	100563	Cover—Ornamental cover for pickup head—for RP-205-3	7	74410	Screw—#4-40 x 3/16" fil. hd. pickup mounting screw (2 req'd)—for RP-205-4
2D	100564	Connector—2-contact male connector for pickup (less wire & terminals)—for RP-205-1	8	100742	Cable—Pickup shielded cable complete with ground terminal—for RP-205-1
2E	100562	Ring—Connector retaining ring—for RP-205-1	8	100741	Cable—Pickup shielded cable with terminals for RP-205-3
2F	103028	Decalcomania—"MG" decalcomania—for RP-208-1	8	79449	Cable—Pickup shielded cable with terminals for RP-205-4
2F	100912	Decalcomania—"78" RPM decalcomania—for RP-205-1	9	100748	Knob—Stylus selector knob—for RP-205-3
2G	101786	Plate—Counterbalance plate for 3-mil pickup head—for RP-205-1	10	74337	Nut—Speednut, retainer for pickup cable (2 req'd)
3	102958	Pickup—Pickup for "45", "33", "16" with 1-mil diamond stylus—for RP-205-1	11	78741	Pivot—Bress pivot bearing
3	102955	Pickup—Pickup for "78" with 3-mil synthetic sapphire stylus—for RP-205-1	12	78742	Shaft—Pivot shaft
3	MI-12110-A	Pickup—Reluctance pickup complete with 1-mil diamond & 3-mil synthetic sapphire styli, mounting screws & knob—for RP-205-3	13	78738	Spring—Spring for height adjustment screw
3	MI-12112-A	Pickup—Reluctance pickup complete with 1-mil & 3-mil synthetic sapphire styli, mounting screws & knob—for RP-205-3	14	78740	Spring—Counterbalance spring for RP-205-1
			15	100758	Spring—Counterbalance spring—for RP-205-3
			15	101265	Spring—Counterbalance spring—for RP-205-4
			16	78734	Bracket—Mtg. bracket assembly for pickup arm
			17	100999	Spring—Loading adjustment screw spring
			18	78732	Collar—Pickup arm mtg. collar—less screw
			18A	79245	Screw—#10-32 set screw for pickup arm collar
			19	101270	Nut—Split nut for pickup arm landing adjustment
			20		Washer—Flat metal washer—bearing for split nut landing adjustment (2 req'd)

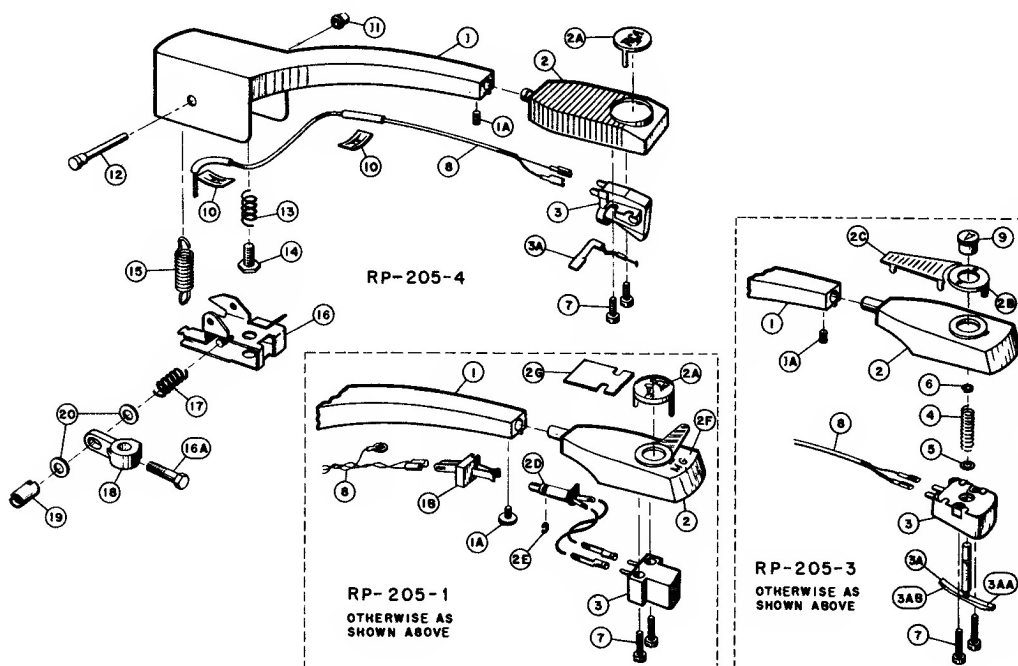


Figure 16—Pickup & Arm Assembly for RP-205-1, RP-205-3 and RP-205-4

## RCA Victor Record Changers RP-205 Series, Continued

### REMOVAL OF TURNTABLE

The turntable retaining ring (Illust. #7) must be removed before the turntable can be lifted off. Special pliers to remove this type of ring are made by Waldes-Kohinoor, Inc. 47-16 Austel Place, Long Island City, New York.

If the special tool is not available, the retaining ring can be easily removed by using two pointed tools such as awls or ice picks.

When replacing the turntable, it will be necessary to push inward on the idler wheel, that contacts turntable rim, before the turntable will lower to original position. This is best done by pushing with a piece of cardboard or a thin wood stick. Turn the turntable clockwise after idler wheel is pushed inward.

### SELECTION OF OPERATING VOLTAGE (RP-205A-1, RP-205A-2)

Remove the turntable as described above, move the VOLTAGE CHANGE SWITCH to "117" for 105-125 volts or "234"

for 210-250 volts to correspond with the available power supply. Replace the turntable using the procedure outlined above.

### 50 60-CYCLE CONVERSION

Remove the turntable as described above, remove SPRING SLEEVE from motor driveshaft and replace with the specified SPRING SLEEVE for the frequency of the available power supply. Hold motor driveshaft stationary and turn SPRING SLEEVE clockwise when installing. Use care to prevent distortion of spring or damage to motor driveshaft. Replace the turntable using the procedure outlined above.

NOTES.—Motors stamped 936173-1 190 are not recommended for 50-cycle operation.

The 4-pole motor (stamped 971584-1) used on RP-205-1, RP-205-3 and RP-205-4, require a change in the solid sleeve pulley (used for 78, 45 and 33 $\frac{1}{3}$  r.p.m.) in addition to the change of the spring sleeve (used for 16 $\frac{2}{3}$  r.p.m.). In addition, a 60 ohm resistor is used in series with the windings of these motors when converted for operation on 50 cycles.

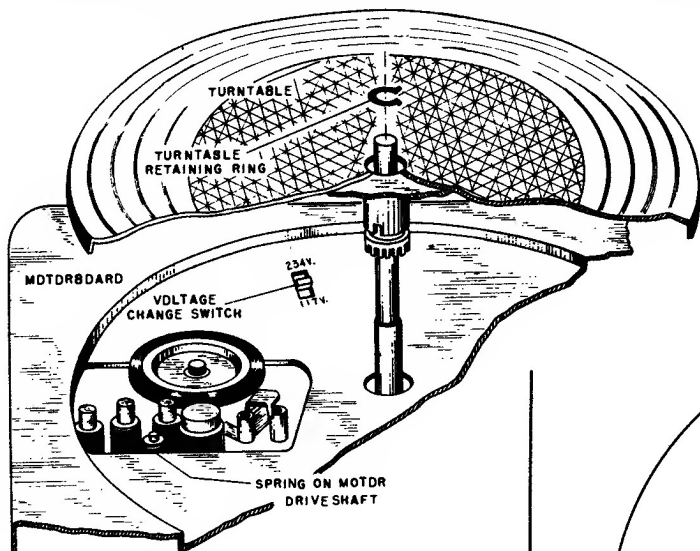


Figure 18—Wiring Diagram for Dual-Voltage Motors

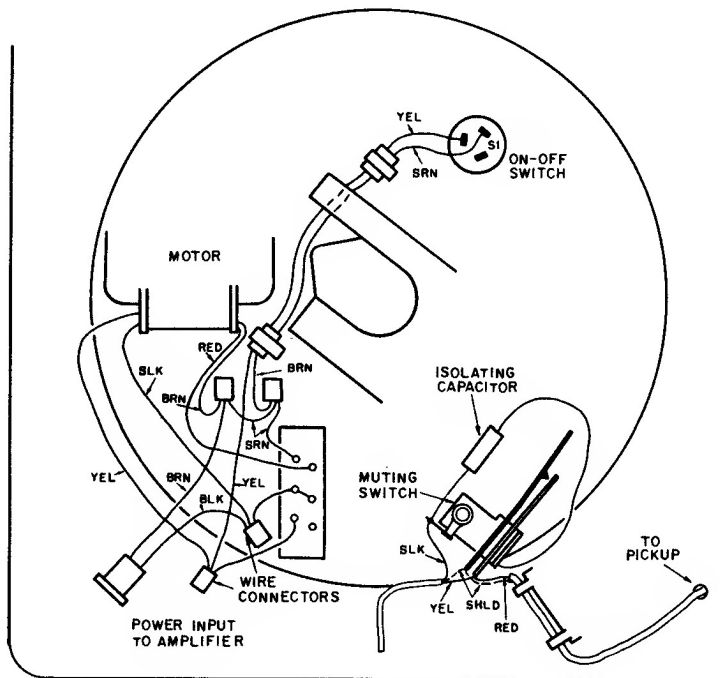


Figure 17—Turntable Removal, Selection of Operating Voltage and 50/60 Cycle Conversion

### STYLUS FORCE

The stylus force used with #100653 ceramic pickup is 7 to 9 grams. This pickup is used on RP-205-2, RP-205-4, RP-205-6, RP-205A-1 and RP-205A-2.

The stylus force used with variable reluctance pickups MI-12110-A and MI-12112-A is 7 to 9 grams. These pickups are designed for use on RP-205-3.

The stylus force used with moving coil pickup #102956

(1-mil stylus) is 6 to 8 grams. The stylus force used with moving coil pickup #102955 (3-mil stylus) is 10 to 14 grams. The 3-mil pickup head assembly contains a lead weight to attain the desired stylus force. These pickups are used on RP-205-1.

No provision is made for field adjustment of stylus force. The counterbalance spring to be used on a particular model of record changer is selected to give the desired stylus force.