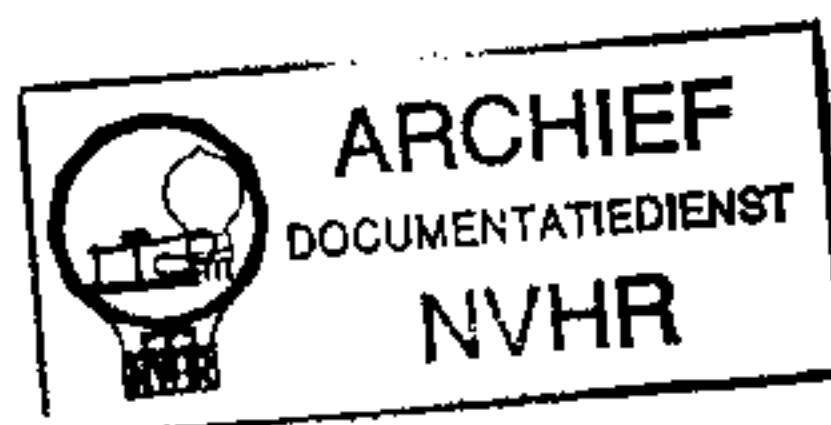


BSR

SERVICE MANUAL C141/C141R

Ned. Ver. v. Historie v/d Radio



GENERAL INFORMATION

The BSR Model C141 record changer will play a stack of one to six records in automatic sequences and shut off after playing the last record. 16, 33 1/3, 45 and 78 rpm records can be played.

Indexing, correct tone arm set-down, for playing 12", 10" or 7" records is determined by the position of the size selector control knob.

The tripping method is the velocity type. Rapid tone arm acceleration is required to actuate the trip mechanism.

The changer operates on 117 VAC 60 Hz.

BSR (USA) LIMITED

ROUTE 303, BLAUVELT, NEW YORK 10913

OPERATING INSTRUCTION

Automatic Play

Grasp control arm (3) at the rear, raise it to its highest position and swing counterclockwise until it is positioned over the tone arm in the tone arm rest (36). Place a maximum of six records (all the same size and speed) on spindle (2). The first record to be played must be located carefully on the ledge of spindle (2) and held in place until the rest of the records are placed on spindle (2). Return control arm (3) to its center position and lower it onto the stack of records. Move the size selector knob to the 12, 10 or 7 position for the 12", 10" or 7" records to be played. Move the speed selector knob to the 16, 33, 45, or 78 position for the 16, 33 1/3, 45, or 78 rpm records to be played.

If the cartridge is equipped with more than one stylus, be sure the correct stylus is positioned for the records to be played.

If 45 rpm (large center hole) records without center hole adaptors are to be played, slip the 45 rpm adaptor spindle over automatic spindle (3). The arrow on the top of the 45 rpm adaptor spindle must point toward the front left corner of the changer.

Starting

Be sure the tone arm is free and resting on the tone arm rest (36). Move the control knob to the Auto position and hold until the turntable starts to revolve, then release.

Rejecting

To reject a record at any time while the changer is in operation, move the control knob to the Auto position and then release. If the record being played was not the last one in the stack, the next record will be dropped and played. If the record being played was the last record in the stack, the tone arm will move to the tone arm rest and the changer will shut off.

Stopping

The changer can be stopped at any time by moving the control knob to the Stop position. If the changer is stopped during the "change cycle," it must be allowed to complete the cycle (by manual rotation of the turntable, if necessary) before moving the tone arm and removing the records. During normal automatic operation, with the control arm in the center position, the changer will stop automatically after the last record has been played.

Unloading

To unload the changer, raise the control arm to its highest position and swing it into position over the tone arm rest (36). Using both hands, grasp the bottom record and gently lift the record stack straight up and off the spindle.

After unloading a stack of 45 rpm records, with large center

holes, make certain the 45 rpm adaptor spindle is properly seated before playing additional 45 rpm records.

Semi-Automatic Play

For semi-automatic play and repeat of a single record, lift the control arm, move it to its position over the tone arm and leave it there. Place the record on the turntable and set the controls for correct record size and speed. Select correct stylus.

To start, move the control knob to the Auto position and release, allowing the knob to move back to the Start position. The turntable will revolve, the first (bottom) record will drop to the turntable and the tone arm will place the stylus in the starting groove to play the record.

If the control arm is returned to the center position over the turntable, after the stylus is in the starting groove, the tone arm will be returned to the tone arm rest and the changer will shut off automatically at the end of the record.

NOTE: Records that do not have the "starting" or "fast-finishing" grooves must be played manually.

Manual Play

To manually play a record, move the control arm to its position over the tone arm rest. With the correct speed and stylus selected, the record is placed on the turntable and the control arm moved to the center position.

The control knob is moved to the Start position to start the turntable.

Using the finger lift, raise the tone arm from the rest and move it to the playing position on the record.

At the end of the record, the tone arm will return to the tone arm rest and the changer will shut off automatically.

Cueing Lever

Raising or lowering the cueing lever (41) raises or lowers the tone arm, under positive control, from any point on or off the record. Lift the cueing lever and the tone arm is lifted into position where it can be moved manually to any position over the record and then lowered gently to the selected groove by lowering the cueing lever.

To pause while playing, raise the cueing lever to lift the stylus from the record for the desired length of time and lower the cueing lever to return the stylus to the same record groove.

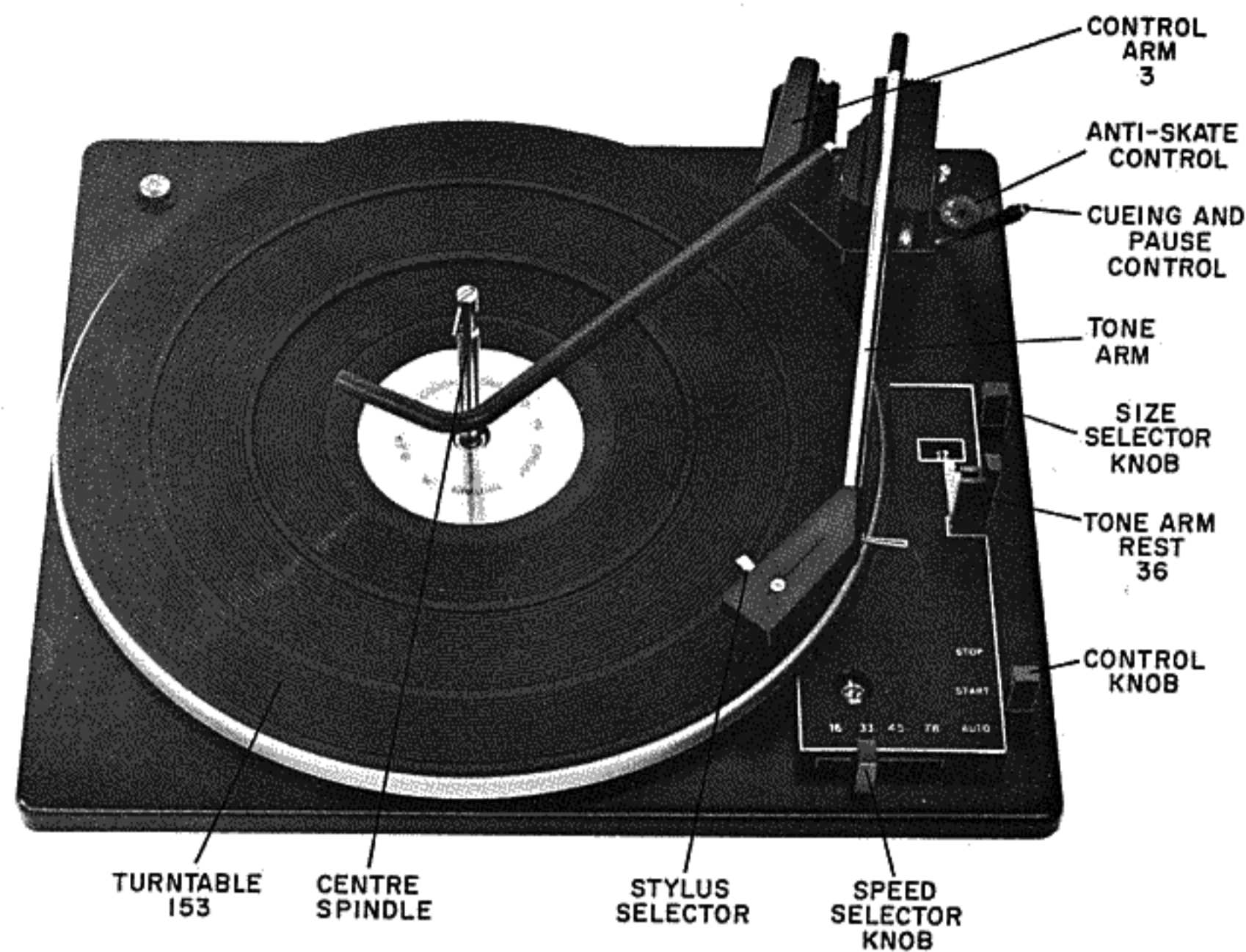
The cueing lever must be in the lowered position during automatic operation of the changer.

CHANGE CYCLE

General Information

The change cycle is started by moving the control knob to the Auto position, then releasing it. The tone arm lifts and a record is dropped to the turntable. The tone arm moves toward the spindle, stops at the point determined by the setting of the 12 10 7 knob, where it is lowered to the lead-in groove of the record.

When the needle reaches the end of the recorded grooves and enters the fast-finish groove at the end of the record, the tone arm movement toward the spindle accelerates rapidly to actuate the velocity trip mechanism. The tone arm is lifted and returned to a position over the tone arm rest, and the bottom record on the spindle drops into playing position on the turntable. The tone arm returns to the starting point of the record and is lowered to the lead-in groove.



The previously described action takes place each time the end of a record is reached until the last record has played. At this time, the velocity trip mechanism starts another change cycle and the tone arm returns to its position over the tone arm rest. The tone arm is then lowered to the tone arm rest and automatic shutoff occurs.

NOTE: The following is a description of the functions that the various parts perform during a change cycle. Observe the change cycle operation while slowly rotating the turntable by hand. The following description can then be readily followed and the function of each part more easily understood.

Speed Change Mechanism

The model C141 is driven by a 2-pole motor (131) or 4-pole motor (164) through the 4-step pulley shaft. Power is transmitted to turntable (153) by the idler pulley (125) pressing against the driving rim of turntable (153) and against one of the four steps of the motor pulley.

When the speed selector knob is moved to the 78 position, idler pulley (125) is positioned to engage the largest diameter step on motor pulley. As the speed control knob is moved to the 45, 33 and 16 positions, idler pulley (125) is progressively positioned to engage smaller diameter steps on the motor pulley for slower speeds.

Starting The Change Cycle

When the control knob (50) is pushed toward the Auto position, reject slide (71) moves reject plate assembly (73) causing switch link (64) to activate switch lever (67). In turn, switch lever (67) depresses the switch plunger to close off-on switch assembly (129). This impresses the necessary voltage on the mechanism drive motor. At the same time, switch lever (67) pivots away from idler arm (127) to allow jockey pulley spring (126) to move idler wheel (125) against the inside rim of the turntable and against the motor shaft. This action starts the turntable rotating in a clockwise direction.

When the control knob (50) is moved from the Stop position toward the Auto position, the angled tip of reject lever assembly (78) contacts actuating slide spring (110) causing actuating slide (97) to move toward the turntable shaft. Actuating slide (97) contacts and pivots actuating pawl (120) into the path of the projection on the turntable boss and gear.


Since the turntable is rotating clockwise, the projection on the turntable boss and gear strikes actuating pawl (120) to move cam gear (119) far enough to mesh with the teeth on the turntable gear. This action starts cam gear (119) rotating in a counterclockwise direction to initiate the change cycle.

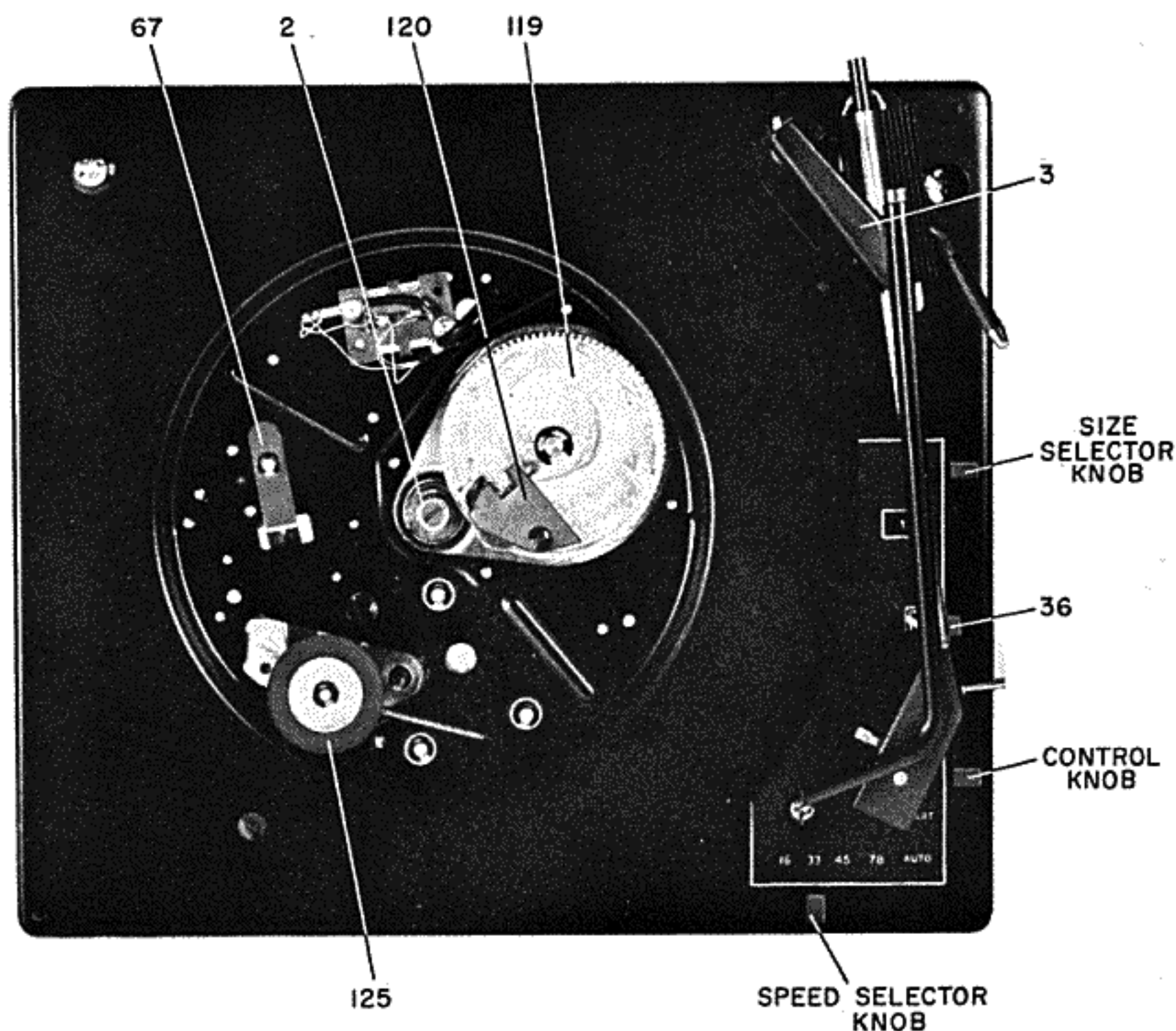
Tone Arm Action and Record Drop

The stud and roller on operating plate (100) follows the eccentric groove in the bottom of the cam gear (119). The resulting pivoting action of operating plate (100) controls the vertical and horizontal movements of the tone arm.

As operating plate (100) pivots, tone arm raising spindle (94) rides up the inclined portion of operating plate (100) to lift the tone arm from the tone arm rest (36). As operating plate (100) continues to pivot, feed lever link (103) retracts the feed lever in automatic spindle (2) to slide the bottom record off the spindle (2) ledge so the record will drop to the turntable (153).

The tone arm set-down point is determined by the position of the 12 10 7 knob. When the 12 10 7 knob is moved to the desired position, selector slide (72) moves detent plate (74) to hold the cut-off slide (118) in position to stop the selector lever (84) at the correct position to fit into the notch of quadrant (90) for tone arm set-down for the record size selected.

As operating plate (100) continues to pivot during the change cycle the spring  fitted to operating plate (100) engages with toggle wheel (96), causing the quadrant to move in the opposite direction operating plate (100) is pivoting. The movement of the quadrant is stopped by the selector lever (84) at the point



determined by the size selector knob. Since tone arm hinge (33) is mounted on the spindle of quadrant (90) the tone arm is now positioned at the set-down point for the record size selected. After the set-down point is reached toggle wheel (96) slips off spring Δ on operating plate (100). Operating plate (100) continues to cycle, reversing direction allowing the tone arm raising spindle (94) to ride down the inclined portion of the operating plate (100) lowering the tone arm to the record surface.

After the tone arm is in place on the record, operating plate (100) continues to move, pushing the selector lever clear of quadrant (90). This allows quadrant (90) and the tone arm to move freely as the stylus follows the record grooves. The operating plate (100) now stops since the cam gear (119), which drives it, has made a complete revolution and, being no longer meshed with the turntable gear has stopped.

Velocity Trip

After a record has been played, a velocity type trip mechanism initiates a new change cycle. This is due to the accelerated inward movement of the tone arm as the stylus enters the trip groove at the end of the record.

While the record is playing, the tone arm moves slowly toward the spindle (2). Actuating slide (97) is moved by the pin on quadrant (90), to make contact with actuating pawl (120). As the record continues to play, actuating slide (97) moves the actuating pawl (120) toward the turntable (153) hub and gear. On each revolution of turntable (153), the projection on turntable (153) hub pushes actuating pawl (120) out of the way to prevent a premature change cycle. This is possible because of the slow movement of the tone arm while the record is playing. When the

stylus enters the record lead-out groove, the tone arm accelerates rapidly and actuating pawl (120) is moved far enough to cause engagement with the projection on the turntable (153) hub. The contact between actuating pawl (120) and turntable (153) hub projection gives the necessary push for the teeth in cam gear (119) to mesh with the teeth on the turntable (153) gear and initiate a change cycle.

Automatic Shut-Off

When the last record drops to turntable (153), control arm (3) drops below the ledge of automatic spindle (2). The spindle of the control arm contacts cut-off slide (118) and pivots cut-off slide (118) down away from selector lever (84) during the next change cycle. At the end of the last record, the changer goes into a change cycle and the tone arm is lifted from the record and moved to its position over tone arm rest (36). As operating plate (100) moves and the tone arm reaches the position over rest (36), since the selector lever is not stopped by cut-off slide (118), spring (101) pushes the selector lever (84) into the position where, as operating plate (100) changes direction, it blocks quadrant (90) and holds the tone arm in the rest position during the remainder of the change cycle. Operating plate (100) continues to move in this direction until cam gear (119) is unmeshed from the gear on turntable (150). Before it stops, the moving operating plate (100) lowers the tone arm to rest (36) and the released selector lever is pushed against cut-off lever (82). Cut-off lever (82) moves reject lever (78) and reject link (79) to turn reject plate (73). When reject plate (73) turns, switch link (64) pushes on switch lever (67) to open switch (129) and moves speed change arm to retract idler pulley (125) from turntable (150) driving rim and motor pulley. Reject plate (73) being connected to control knob (50) by means of reject slide (71) moves control knob (50) to the Stop position.

ASSEMBLY SERVICE INFORMATION

Standard Automatic Spindle

To remove standard automatic spindle (2) pull spindle (2) straight up, turn clockwise to release from retaining spring (89) and lift out of the center hole in turntable (153).

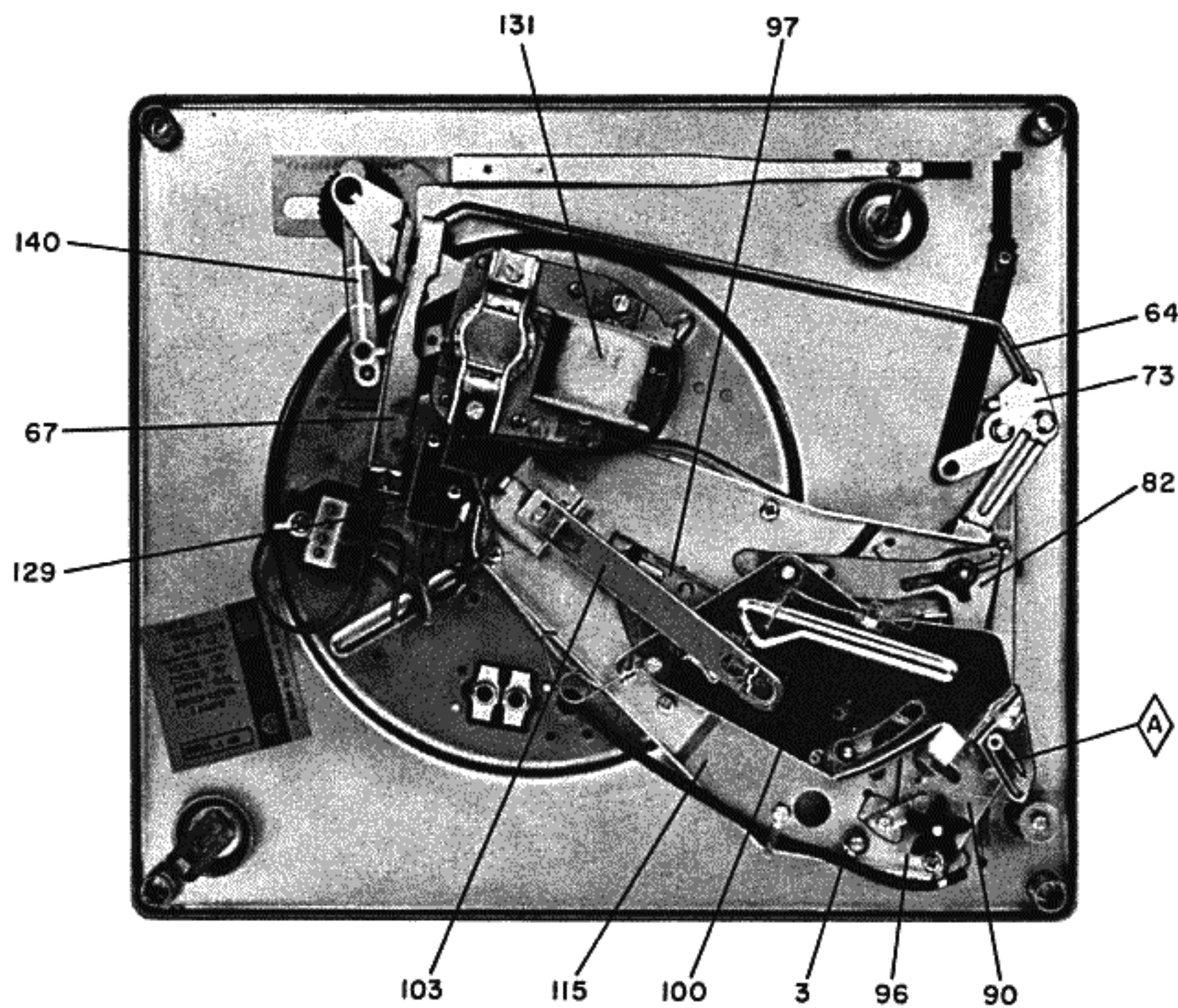
To install standard automatic spindle (2), insert spindle (2) into the center hole of turntable (153). Rotate spindle (2) until the projecting lug on the side of spindle (2) enters the slot in the turntable bearing and is locked in position by retaining spring (89).

Turntable Assembly

Remove center disc (156) from turntable (153). Move control knob to Stop. Remove circlip (114) and lift turntable (153) off changer. When replacing turntable (153) make certain the control knob is in the Stop position so that idler pulley (125) is not damaged by the driving rim of turntable (153).

Tone Arm Assembly

To remove the complete tone arm assembly, first unsolder



cable (8) leads at tag mounting strip (143) or phono socket (121) and release cable (8) from all fastenings. Unhook stylus pressure spring (27) from hook on tone arm hinge (33). Remove tone arm pivot screw (7) to release tone arm from hinge (33). Tone arm may now be removed.

Control Arm Assembly

To remove control arm (3) remove circlip (70) spacer (112) and control arm spindle spring (113). Pull control arm (3) up and out of control housing (40).

ADJUSTMENTS

This changer has been accurately pre-adjusted for correct stylus set-down, stylus pressure and tone arm height. If new adjustments should ever be needed, make them with a 12" record; then position will be correct for all sizes.

Idler Pulley

Disconnect changer from AC source and remove turntable (153). Set speed selector knob on 33 and control knob to Start so idler pulley (125) rests against the 33 rpm step on the motor pulley (131). Using a screwdriver, turn adjustment screw (128) until idler pulley (125) is centered on the 33 rpm step of motor pulley. Check the alignment of idler pulley (125) at all speeds and readjust if necessary. Move the control knob to Stop and replace turntable (153) taking care not to damage idler pulley (125).

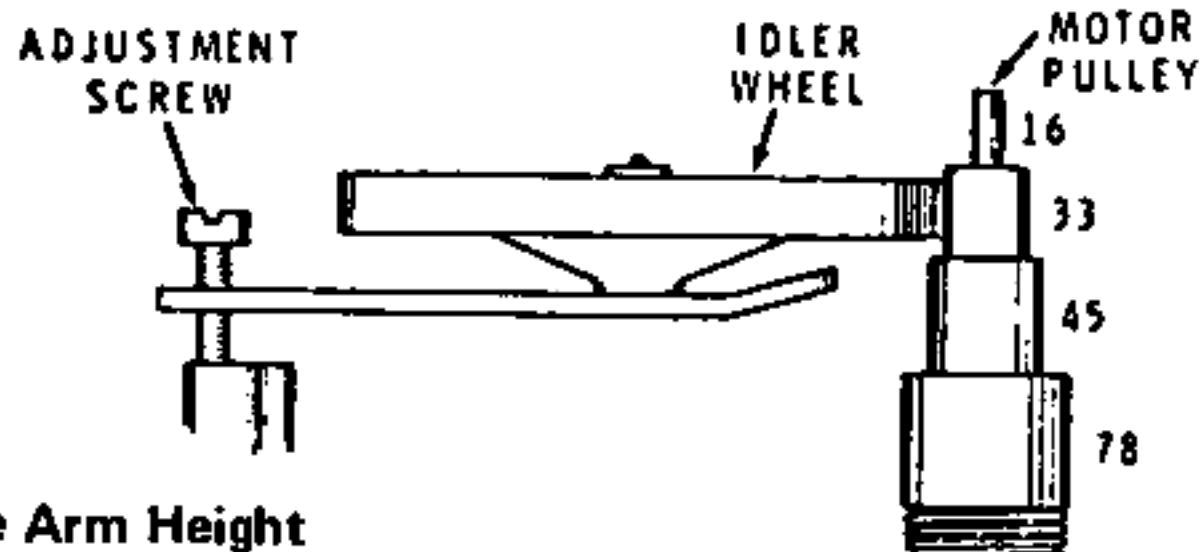
Stylus Pressure

NOTE: It is necessary to use a stylus pressure gauge in adjusting the stylus pressure of the tone arm. One can be obtained from a local hi-fi store. The stylus pressure indicator on the side of the tone arm is for reference only and indicates an increase or decrease in the nominal stylus pressure setting.

Turn stylus pressure adjusting screw (9) clockwise to reduce stylus pressure; counterclockwise to increase pressure.

Anti-Skate

This control has three positions: 2, 4, and 6 grams. Set this control to the number that is closest to the stylus pressure setting. This anti-skate feature prevents the tone arm from making quick lateral movements, such as skating through the "lead-in" grooves of a record.

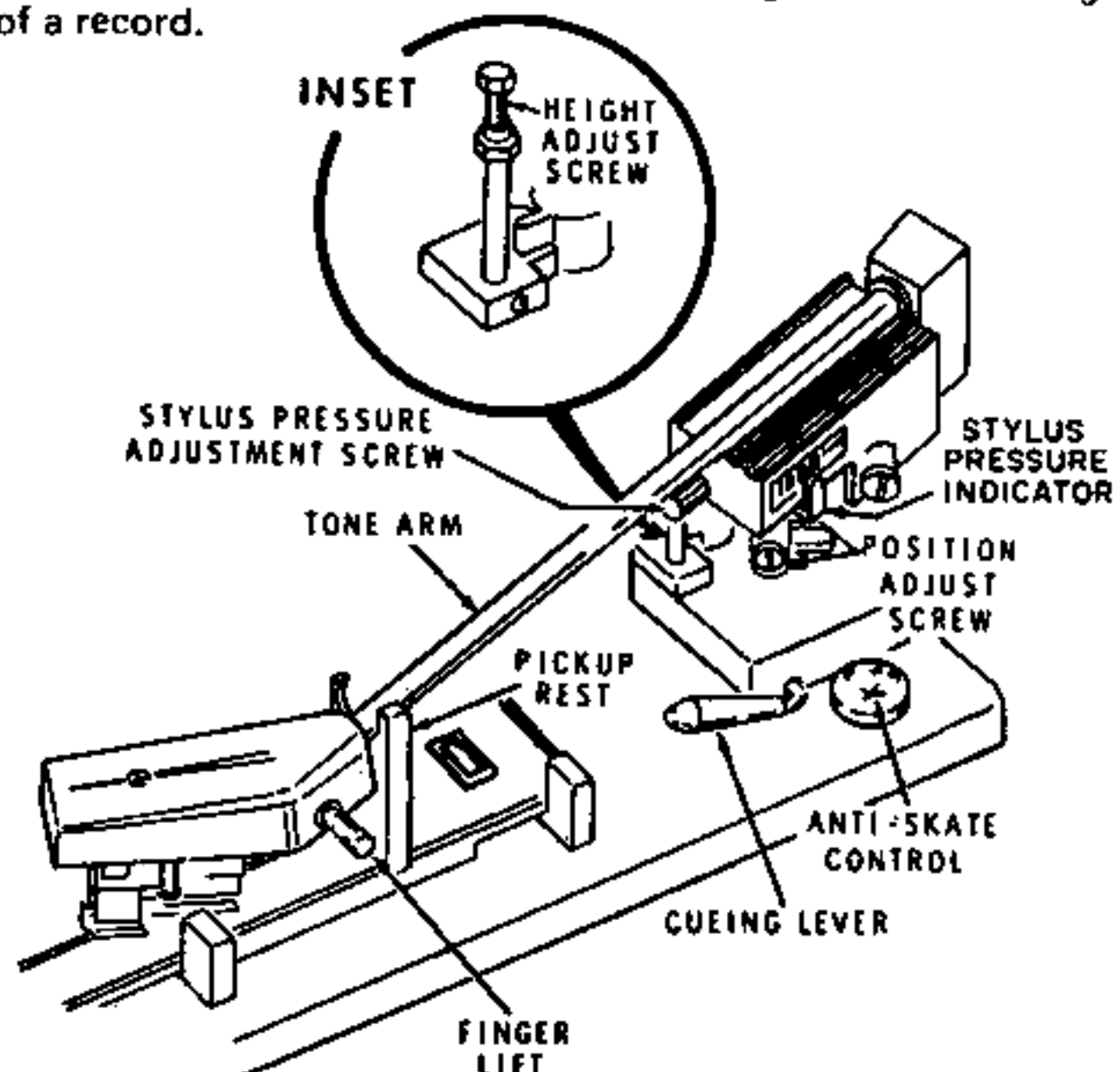


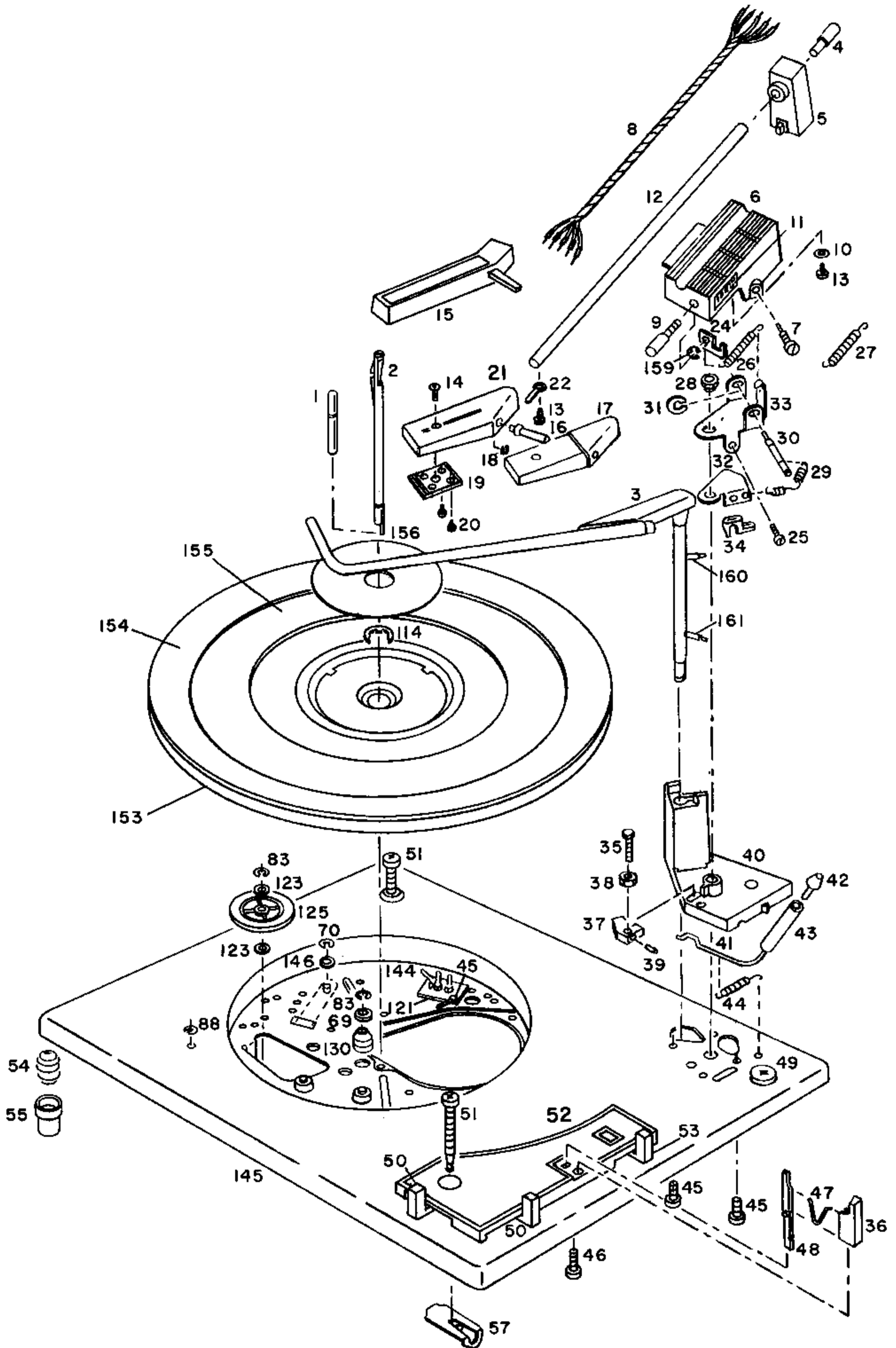
Tone Arm Height

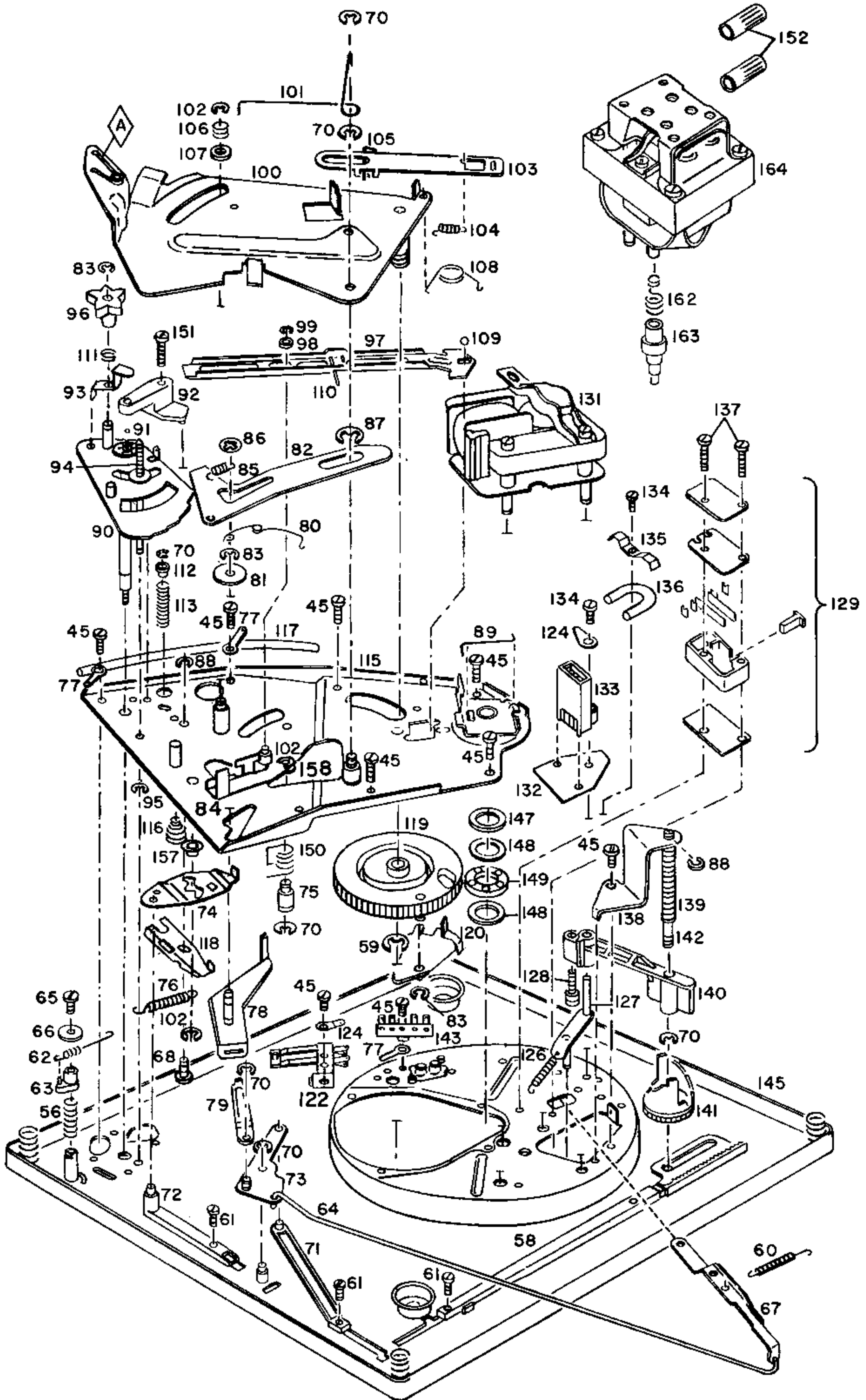
To raise, hold plastic nut (38) firmly and turn screw head (35) by hand counterclockwise; to lower, turn screw head (35) clockwise. Adjust stylus to clear a full stack of records by 1/8".

Stylus Set-Down

The set-down position of the stylus on the record is adjusted by means of the stylus adjusting screw (25). This screw is adjusted to obtain correct set-down for a 12" record. It should be adjusted so the stylus will set down 1/8" from the outside edge of the record. This adjustment should be made with a 12" record on the turntable. When the stylus set-down is adjusted correctly for 12" record, it will automatically be correct for 7" and 10" records.







LUBRICATION

The mechanism has been thoroughly lubricated at the factory and under normal use should not require additional lubrication for at least one year. However, after prolonged use, it may be necessary to lubricate parts as specified.

Use a medium grade grease only on these parts:

1. Speed change arm (140)
2. Idler pulley arm (127)
3. Bearing surfaces of operating plate (100)
4. Gear teeth, bearing and cam track on cam gear (119)

5. Ball race (149)

Use a light machine oil on these parts:

1. Tone arm raising spindle (94)
2. Idler pulley spindle on pulley arm (127)
3. Upper and lower bearings of motor (131)

NOTE: Oil or grease should never be applied to or allowed to collect on the rubber tire of the idler pulley (125), the inside surface of the driving rim of turntable (153) or on the motor pulley.

TROUBLE CHART

Symptom	Cause	Remedy
Turntable does not revolve when the control knob is moved to the Auto position.	<ol style="list-style-type: none"> 1. No current to motor (131). 2. Defective motor (131). 3. Idler pulley (125) not engaging driving rim of turntable (153). 4. Idler pulley (125) not driving. 	<ol style="list-style-type: none"> 1. Make sure that current is reaching the AC leads. Check switch (129) and AMP lock (133). Replace if necessary. 2. Remove turntable (153) and check motor (131). Repair or replace motor (131). 3. Connect or replace spring (126). Check that idler arm (127) pivots freely. 4. Clean idler pulley (125) and driving rim of turntable (153) to ensure that driving surfaces are free from oil and dirt.
Turntable (153) revolves when the control knob is moved to the Auto position but the tone arm does not leave rest (36).	<ol style="list-style-type: none"> 1. Tone arm not adjusted for correct height. 2. Spring of actuating slide (97) bent or missing. 	<ol style="list-style-type: none"> 1. Adjust screw (35) as described under "Adjustments." 2. Adjust or replace.
Turntable stops or slows down in middle of change cycle.	<ol style="list-style-type: none"> 1. Idler pulley (125) slips. 2. Insufficient tension on idler pulley spring (126). 	<ol style="list-style-type: none"> 1. Clean inside of driving rim of turntable (153) and rubber tire of idler pulley (125) to remove any oil or dirt. 2. Check tension of spring (126) and replace if necessary.
Turntable speed too slow.	<ol style="list-style-type: none"> 1. Tight motor (131) bearings. 2. Binding turntable bearing (153). 3. Idler pulley (125) slips. 4. AC line voltage too low. 5. Operating temperature too low. 6. Idler pulley height incorrect. 	<ol style="list-style-type: none"> 1. Lightly tap side of motor (131) laminations to free self-aligning bearings. Lubricate bearings. 2. If turntable (153) does not turn freely when idler pulley (125) is disengaged, remove turntable (153) and clean turntable bearing. Lubricate bearing with light machine oil. 3. Idler arm (127) must pivot freely in speed change arm (140). Check tension of spring (126). Replace spring (126) if necessary. 4. Line voltage should not be less than 100 V. 5. Prolonged exposure to temperature below 45 degrees F will cause slow initial speed. 6. Adjust as outlined under "Adjustments."
Record fails to drop when changer cycles.	<ol style="list-style-type: none"> 1. Spindle (2) not fully inserted in center of turntable (153). 2. Bent record feed lever in spindle (2). 3. Spring (104) missing or detached from feed lever link (103). 4. Spring (105) missing from feed lever link (103). 	<ol style="list-style-type: none"> 1. Make certain spindle (2) is fully engaged and locked in place. 2. Replace spindle (2). 3. Replace or reposition. 4. Replace.

Symptom	Cause	Remedy
Tone arm strikes under side of record on ledge of spindle (3), or stylus catches on top of last record while moving into playing position.	1. Incorrect tone arm height adjustment.	1. Adjust screw (35) as described under "Adjustments."
Tone arm does not correctly locate on record.	1. Tone arm set-down not adjusted correctly.	1. Adjust screw (25) as described under "Adjustments."
Tone arm does not track correctly across record.	1. Stylus may be clogged with an accumulation of dust, or stylus may be chipped or worn. 2. Pick-up leads too tight. 3. Changer not level. 4. Insufficient stylus pressure. 5. Record with worn or damaged grooves. Lateral friction caused by: 6. Excessive tension on support spring (93). 7. Excessive anti-skate compensation. 8. Weak support spring (93). 9. Actuating pawl assembly sticking.	1. Clean foreign material from around stylus. Replace stylus if badly worn or broken. 2. Give Pick-up leads enough slack to allow tone arm to move freely across record. 3. See that changer is level before operating. 4. Adjust stylus pressure as described under "Adjustments." 5. Replace record. 6. Bend support spring out slightly to release tension. 7. Reduce anti-skate setting. 8. Bend support spring inwards. 9. Release or replace actuating pawl (120).
Unit will not re-cycle at end of record.	1. Tripping pawls assembly (120) binding. 2. Needle set-down inside music groove.	1. Check for friction and free movement. 2. Adjust needle to set down at center of lead-in groove.
Two records drop together.	1. Hole in record too large. 2. Control arm (3) not fully down possibly due to incorrectly loaded records. 3. Control arm (3) not holding records level.	1. Replace record. 2. Carefully clean shaft of control arm (3) and remove burrs, if any. Do not oil shaft. Control arm (3) should fall in position of its own weight. 3. Gently twist control arm (3) until it will hold record stack parallel to the top surface of turntable (153).
Changer fails to shut off after last record has played and tone arm has returned to rest	1. Switch (129) fouled by AC leads. 2. Faulty switch (129).	1. Move leads clear of switch (129). 2. Replace switch (129).
Noise during playing of record.	1. Motor rumble. 2. Turntable (153) bearings and ball race (149). 3. Defective idler pulley (125).	1. Motor (131) must float freely on mounting grommets (130). Replace grommets (130) if necessary. Motor leads must be positioned to allow free movement of motor (131). 2. Clean and lubricate bearings. Replace ball race (149) if necessary. Use light machine oil on bearing of turntable (153) and medium grade grease on ball race (149). 3. Replace idler pulley (125).

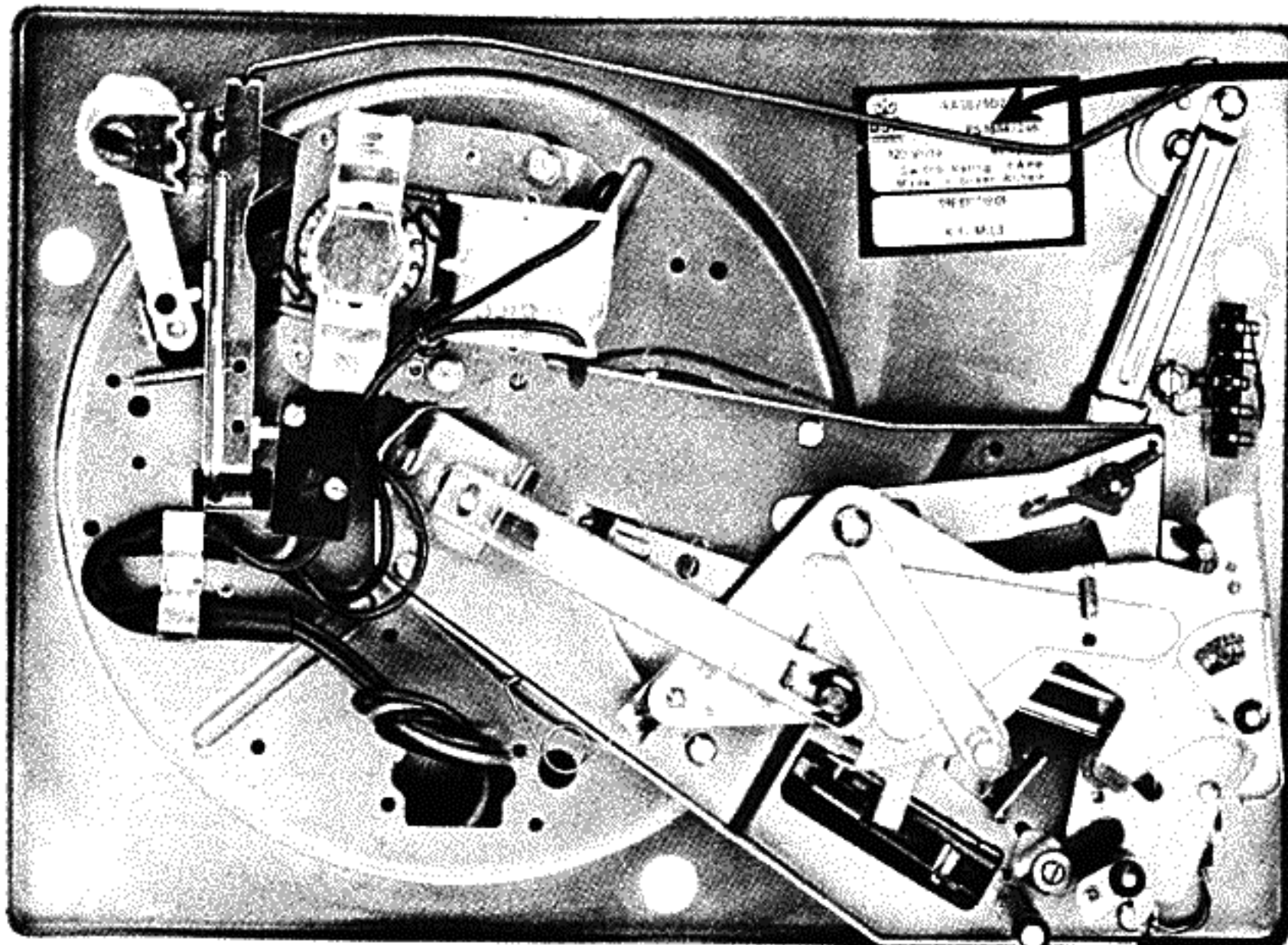


BSR (USA)

ROUTE 303, BLAUVELT, NEW YORK 10913

Listed below is our revised Color Coding. If you will make use of this Code when ordering parts, it will enable us to fill your orders with optimum speed and efficiency. For example: "D105146-1" would be "PU Arm - brown"

Suffix No.	Color	Suffix No.	Color
1.	Brown	23.	Pewter
2.	Grey	24.	Warm Grey
3.	Black	25.	Blue Grey
4.	Beige	26.	Plebe Grey
5.	Pearl Grey	27.	Charcoal Blue
6.	Off White	28.	Satin Silver
7.	Gold	29.	Sand
8.	Silver	30.	Chalk
9.	Platinum	31.	Kriss White
10.	Lt. Grey	32.	Polar White
11.	Tan	33.	Mustard
12.	Lustre Aluminum	34.	Regency Beige
13.	Blue	35.	Olive Green
14.	Sepia	36.	Avocado
15.	Slate	37.	Smoke Grey
16.	Warm White	38.	Dark Grey
17.	Ochre	39.	Parchment
18.	Charcoal	40.	Chestnut
19.	Khaki	41.	Caramel
20.	Azure	42.	Beach White
21.	Chocolate	43.	Wedgewood
22.	Ivory	44.	Birch Grey



When in doubt of color, or Changer Model, please quote the **Number** on the label which is located under mainplate of changer.

PARTS AND PRICE LIST

REF. NO.	PART NO.	DESCRIPTION	PRICE	REF. NO.	PART NO.	DESCRIPTION	PRICE
1.	A108748	Stub Spindle.	.10	56.	A106813	Anti-Skate Control Spring.	.04
2.	A107043	Centre Spindle Assembly.	7.50	57.	A102166	Retaining Clip.	.12
3.	B108086	Control Arm Assembly.	4.35	58.	B108113	Speed Change Slide Assembly.	.36
4.	A108399	Tube End.	.06	59.	A102110	Circlip.	.05
5.	B107003	Counterweight.	.63	60.	A105826	Switch Lever Spring.	.12
6.	A109319	P.U. Body Sub Assembly.	1.50	61.	A105267	Screw Type 25, 4-24 x 5/16" Slt. Pan Hd.	.03
7.	A106652	P.U. Pivot Screw.	.06	62.	A106812	Anti-Skate Spring.	.22
8.	A106745	23" Quin. P.U. Lead.	.60	63.	B106815	Spring Anchor.	.12
9.	A108344	Balance Adjusting Screw.	.23	64.	B106405	Switch Link.	.21
10.	A106504	6 B.A. Lockwasher.	.02	65.	A107863	Screw Type 25, 4-24 x 9/16" Slt. Pan Hd.	.03
11.	A108346	Stylus Pressure Label.	.18	66.	A106816	Washer.	.02
12.	B106660	Pick Up Tube.	2.16	67.	A106129	Switch Lever.	.36
13.	A109551	Screw Type A, No. 4 x 1/4" Rec. Pan. Hd.	.03	68.	A108064	Slide Pin.	.10
14.	A106573	Screw 6 B.A. x 3/16" Rec. C'Sunk Hd.	.03	69.	A101646	Washer.	.03
15.	SC7M-2 ST 16	Stereo Cartridge Assy. w/sap. stylus (opt.)	9.00	70.	A102109	Circlip.	.05
	SC7M-2 ST 17	Stereo Cartridge Assy. w/dia./sap. stylus(opt.)	12.50	71.	B106119	Reject Slide.	.24
16.	A104964	Finger Lift.	.12	72.	B106143	Selector Slide.	.15
17.	B107351	Pick Up Head.	1.44	73.	A106193	Reject Plate Assembly.	.18
18.	A102128	Circlip.	.06	74.	A108033	Detent Plate.	.15
19.	A106775	Adaptor Plate.	.10	75.	A108894	Selector Pivot.	.10
20.	A106506	Screw Type Z, No. 2 x 1/8" Slt. Pan Hd.	.05	76.	A108075	Detent Plate Spring.	.15
21.	B106776	Pick Up Head.	.54	77.	A102126	Solder Tag.	.03
22.	A103587	Solder Tag.	.02	78.	A108283	Reject Lever Assembly.	.18
23.	PS899	45 rpm Adaptor Spindle (optional).	1.95	79.	A106134	Reject Link.	.18
24.	A108345	Balance Adjuster.	.10	80.	A106627	Detent Spring.	.03
25.	A106917	Screw 6 B.A. x 3/8" Slt. Ch. Hd.	.03	81.	A105660	Control Washer.	.05
26.	A200510	P.U. Balance Spring. (Use with item #15)	.12	82.	B105592	Cut-off Lever.	.12
27.	A105669	P.U. Balance Spring.	.12	83.	A100762	Circlip.	.05
28.	A105624	P.U. Spindle Nut.	.18	84.	B108036	Selector Lever.	.30
29.	A108382	Hinge Retainer Spring.	.03	85.	A102623	Cut-off Lever Spring.	.12
30.	A108381	Pick Up Pivot.	.09	86.	A102251	Retainer.	.06
31.	A106205	Circlip.	.02	87.	A101526	Circlip.	.05
32.	A106654	Pick Up Adjuster.	.09	88.	A102128	Circlip.	.06
33.	A108384	Hinge Bracket Riv. Assembly.	.18	89.	A104882	Retaining Clip.	.02
34.	A106047	Locking Sleeve.	.12	90.	B108085	Quadrant Assembly.	2.16
35.	A105712	Adjusting Screw.	.07	91.	A107154	3/32" Dia. Ball Bearing.	.05
36.	A106663	Pick Up Rest.	.09	92.	A106965	Support Bracket.	.18
37.	A106665	Raising Pad.	.09	93.	A107004	Support Spring.	.09
38.	A105907	Nut.	.03	94.	A106697	P.U. Raising Spindle Assembly.	.45
39.	A106505	Grub Screw 6 B.A. x 1/8".	.03	95.	A108334	Circlip.	.05
40.	C106138	Control Housing.	1.80	96.	B108073	Toggle Wheel.	.25
41.	A106474	Raising Arm.	.12	97.	B106962	Actuating Slide.	.41
42.	A106472	Cap.	.18	98.	A106966	Washer.	.04
43.	A106471	Knob.	.18	99.	A104077	Circlip.	.03
44.	A106473	Spring.	.15	100.	B108168	Operating Plate Assembly.	1.38
45.	A106510	Screw Type Z, No. 6 x 1/4" Slt. Pan Hd.	.03	101.	A108078	Selector Drive Spring.	.15
46.	A106507	Screw Type 25, 6-20 x 3/4" Slt. Pan Hd.	.03	102.	A100785	Circlip.	.05
47.	A106173	P.U. Rest Spring.	.03	103.	B105597	Feed Lever Link.	.18
48.	A106664	Pick Up Clip.	.09	104.	A105827	Link Return Spring.	.12
49.	B106814	Anti-Skate Control.	.09	105.	A106968	Feed Lever Link Spring.	.05
50.	B106122	Knob.	.12	106.	A108077	Spring	.10
51.	A104189	Transit Screw.	.15	107.	A103290	Washer.	.06
52.	C109315	Control Cover.	1.10	108.	A106980	Operating Plate Spring	.14
53.	A109317	Selector Knob.	.36	109.	A107419	9/64" Dia. Ball Bearing.	.06
54.	A106090	Unit Mounting Spring.	.14	110.	A105901	Actuating Slide Spring.	.03
55.	A106089	Spring Cup.	.24	111.	A108654	Spring Clip.	.10

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PARTS AND PRICE LIST (Cont'd.)

REF. NO.	PART NO.	DESCRIPTION	PRICE	REF. NO.	PART NO.	DESCRIPTION	PRICE
112.	A104861	Spacer.	.18	141.	B106113	Raising Cam.	.24
113.	A105985	Control Spindle Spring.	.18	142.	A108589	Raising Spindle.	.18
114.	A105678	Circlip.	.05	143.	A106206	Tag Mounting Strip.	.36
115.	C108104	Main Sub Plate Riv. Assembly.	4.46	144.	A102352	Solder Tag.	.03
116.	A108083	Cut-off Slide Spring.	.15	145.	B109328	Mainplate Sub Assembly.	11.52
117.	A108401	7" 3 mm P.V.C. Sleeving.	.10	146.	A102595	Washer.	.03
118.	A108034	Cut-off Slide.	.30	147.	A102058	Damping Washer.	.15
119.	A102133	Cam Gear Riveting Assembly.	2.25	148.	A101506	Thrust Washer.	.09
120.	A106819	Actuating Pawl Assembly.	.39	149.	A101649	Ball Race.	.90
121.	A102616	Phono Socket.	.72	150.	A108891	Selector Pivot Spring.	.15
122.	A107086	Muting Switch Assembly.	1.83	151.	A106512	Screw Type BT, 4-24x5/8" Rec. Pan Hd.	.03
123.	A101620	J.P. Spindle Washer.	.02	152.	A105472	Screw-on Connector.	.30
124.	A106749	4 B.A. Tag Lockwasher.	.03	153.	C106194	Turntable Assembly.	12.60
125.	A101623	Jockey Pulley Assembly.	1.53	154.	C109261	Turntable Mat.	2.16
126.	A105824	Jockey Pulley Spring.	.15	155.	B106139	Turntable Trim. (optional)	2.16
127.	A105965	Jockey Arm Riv. Assembly.	.30	156.	B106024	T.T. Centre Disc.	2.16
128.	A105619	Adjusting Screw.	.12	157.	A108461	Roller.	.06
129.	B108285	Switch Assembly.	1.80	158.	A101620	Washer.	.02
	B108326	Switch Assembly w/pop filter.	4.00	159.	A108348	Circlip.	.05
130.	A102181	Rubber Mounting.	.12	160.	A107348	Control Pin.	.06
131.		Two Pole Motor Assembly. (See list below).		161.	A108066	Cut-off Peg.	
132.	A104865	Insulating Strip.	.09	162.	A104765	Drive Spring.	
133.	A103096	AMP Plug Housing.	.40	163.	A106719	50 CPS Pulley	1.00
134.	A105623	Screw Type 25, 6-20 x 3/8" Slt'd. Pan Hd.	.05		A106720	60 CPS Pulley.	1.00
135.	A102718	Cable Clamp.	.12	164.		4-pole Motor Assembly (see Motor Chart).	
136.	A106513	3" 5 mm P.V.C. Sleeving.	.03				
137.	A107418	Screw Type 25, 4-24 x 3/4" Slt'd. Pan Hd.	.36				
138.	A106034	Speed Change Bracket.	.54				
139.	A105831	Raising Spindle Spring.	.05				
140.	B106021	Speed Change Arm.	2.88				

TWO POLE MOTOR ASSEMBLY

Motor Type	Voltage	Frequency	Overwind	Price
TP8/150	120V	60C	None	10.00
TP8/152 (U/L Amplok)	120V	60C	None	10.00

FOUR POLE MOTOR ASSEMBLY

Motor Type	Voltage	Frequency	Price
FP10/3 (U/L)	120	50/60	16.00
FP10/4 (U/L Amplok)	120	50/60	16.00

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PARTS LIST

Prices subject to change without notice.

REF. NO.	PART NO.	DESCRIPTION	LIST PRICE
10	B108656	MAINPLATE SUB ASS'Y.	11.52
15	A102126	SOLDER TAG	.05
19	B110364	RAISING CAM	.25
69	A110609	SCREW #8 x 1/2" HI-LO REC. PAN HEAD	.10
116	A108893	WASHER	.10
152	B110426	SELECTOR KNOB	.36
159	B108418	ANTI-SKATE CONTROL	.15
160	D110429	ESCUTCHEON	2.50
161	A108410	SPRING	.10
162	A106510	SCREW TYPE B #6 x 1/4" REC. PAN HEAD	.10
163	A110451	RAISING ARM	.15
164	A110381	KNOB	.18
165	A110408	CAP	.10
169	A110454	RAISING PAD	.12
173	A106047	LOCKING SLEEVE	.12
174	A106917	SCREW TYPE 6 BA x 3/8" SLTD. CH. HD.	.03
175	A106654	P.U. ADJUSTER	.09
186	A110574	P.U. ARM BODY SUB ASS'Y.	1.10
190	B110417	BALANCE ADJUSTER	.25
192	C110397	P.U. HEAD	.55
195	A104306	SLEEVE	.05
196	A103587	SOLDER TAG	.05
198	A110449	P.U. HEAD TRIM	.10
203	B109650	CONTROL ARM ASS'Y.	2.25
204	A108827	SCREW TYPE B #2 x 1/2" REC. C'SUNK HD.	.05
205	A108841	CIRCLIP	.05
212	A106507	SCREW TYPE BT 6-20 x 3/4" REC. PAN HD.	.06
215*	A108413	RAISING ARM	.10
216*	A110381	KNOB	.18
217*	A110407	CAP	.18
218*	A110618	SCREW TYPE M 2.5 x 5" REC. C'SUNK HD.	.05
219*	A108746	ADJUSTING SCREW ASS'Y.	.10
220*	A110421	CYLINDER	.25
221*	A108415	SPRING	.10
222*	A110423	RAISING SLIDE ASS'Y.	.60
223*	A108410	SPRING	.10
224*	A110455	RAISING PAD	.12

ITEMS MARKED THUS * APPLY ONLY WHEN MODEL IS FITTED WITH A VISCOUS CUEING DEVICE.

SEE THE C141 SERVICE MANUAL FOR GENERAL INFORMATION, PARTS LIST AND SERVICE INSTRUCTIONS.

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