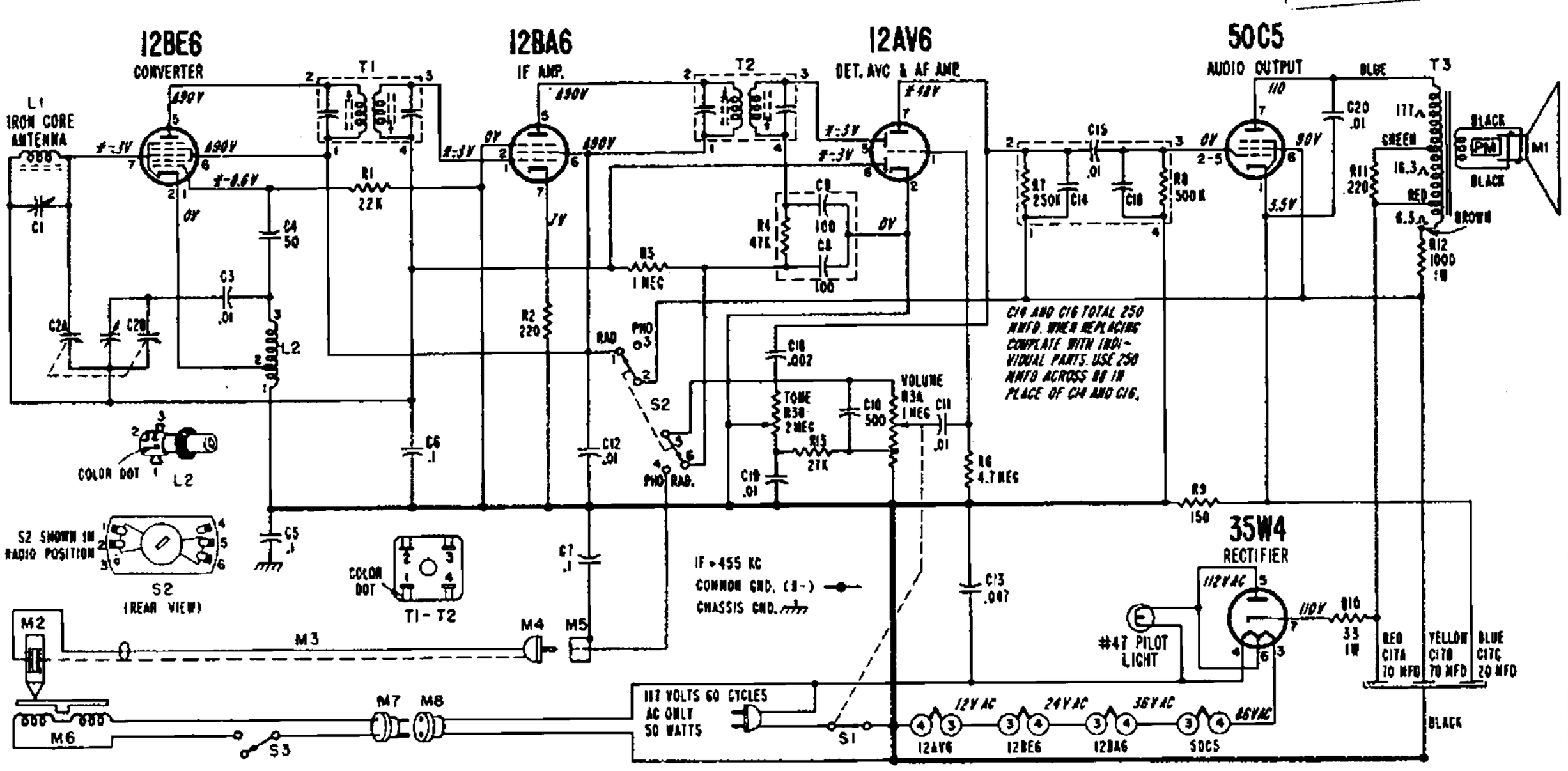
MODELS 5D31, 5D32, 5D33, Ch. 5D3



*These readings will be lower if taken with a 1000 ohms-per-volt meter.
▲These readings will be zero on "Phono"; other DC readings may be slightly higher.

OPERATING VOLTAGE

117 volts, 60 cycles AC only; 50 watts

VOLTAGE DATA

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Radio-Phono switch S2 in "Radio" position.
- Measured on 117 Volt, 60 Cycle AC line.
- Volume control minimum; dial turned to low end.
- Voltages measured with vacuum-tube voltmeter.

RESISTORS

Symbol	Description	Part No.
R1	22,000 ohms, ½ watt	60B 8-223
R2	220 ohms, ½ watt	60B 8-221
R3A	1 megohm, Volume }	75B 11-8
R3B	2 megohms, Tone } (Includes switch S1)	
§R4	47,000 ohms, ½ watt	
R5	1 megohm, ½ watt	60B 8-105
R6	4.7 megohms, ½ watt	60B 8-475
†R7	250,000 ohms, ½ watt	
†R8	500,000 ohms, ½ watt	
R9	150 ohms, ½ watt	60B 8-151
R10	33 ohms, 1 watt	60B 28-3
R11	220 ohms, ½ watt	60B 8-221
R12	1,000 ohms, 1 watt	60B 28-2
R13	27,000 ohms, ½ watt	60B 8-273

CAPACITORS

C1	Trimmer, 3 to 30 mmfd	66A 33
C2A	Ant. 323 mmfd, max. } gang	68B 55-1
C2B	Osc. 105 mmfd, max. } gang	
	(Drum spotwelded to gang)	
C3	.01 mfd, 450 volts, ceramic	65C 10-3
C4	50 mmfd, 500 volts, ceramic	65C 6-4
C5	.1 mfd, 200 volts, paper	64B 1-30
C6	.1 mfd, 200 volts, paper	64B 1-30
C7	.1 mfd, 200 volts, paper	64B 1-30
§C8	100 mmfd, ceramic	
§C9	100 mmfd, ceramic	
C10	500 mmfd, ceramic	65C 6-6
C11	.01 mfd, 450 volts, ceramic	65C 10-3
C12	.01 mfd, 450 volts, ceramic	65C 10-3
C13	.047 mfd, 400 volts, paper	65A 13-5
†C14	See schematic	
†C15	.01 mfd, 500 volts, ceramic	
†C16	See schematic	
C17A	70 mfd, 150 volts }	
C17B	70 mfd, 150 volts } elect	67B 7-18
C17C	20 mfd, 25 volts }	
C18	.002 mfd, 600 volts, paper	64B 1-14
C19	.01 mfd, 450 volts, ceramic	65C 10-3
C20	.01 mfd, 450 volts, ceramic	65C 10-3

COILS, TRANSFORMERS, ETC.

L1	Antenna, Iron Core (Includes C1)	69B 164
L2	Coil, Oscillator	69A 52-6
*T1	Transformer, 1st IF with hollow core slugs	72C 128-7
	with slotted core slugs	72C 28-7
*T2	Transformer, 2nd IF with hollow core slugs	72C 128-7
	with slotted core slugs	72C 28-7
T3	Transformer, Output	79C 46-1
M1	Speaker, (6" PM)	78B 81-1
M5	Socket, Phono Input	88A 1
M8	Socket & Leads, Phono Motor	89A 6-3
S1	Switch, On-Off	Part of R3
S2	Switch, Radio-Phono	76B 28-1
	Couplate (Includes R7, R8, C14, C15, C16)	63A 5-6
	Diode Filter (Includes R4, C8, C9)	63A 3-1

MISCELLANEOUS PARTS

Dial Cord (22" length needed)	50A 1-3
Grommet, Rubber (gang mtg.)	12B 1-18
Manual, Customer Instruction	41B 20-31
Manual, Service for RC600 Record Changer	S454
Pilot Light, #47	81A 1-8
Pointer, Dial (includes compression ring)	A4103
Shaft, Pointer	28A 42
Shield, Pilot Light	82A 4
Sleeve, Tuning (brass)	27A 180
Socket, Pilot Light	82A 20-1
Socket, Tube, 7-pin	87A 3-4
Spacer, "T" (gang condenser mtg.)	29A 2-1-24
Spring, Dial Cord Tension	19B 1-5
Spring, Hairpin (for tuning sleeve)	19A 2-5

CABINET PARTS

Base, Metal (cabinet legs)	35E 269
Bottom Board	43B 205
Cabinet Bottom, Plastic ebony	34E 63-3
maroon	34E 63-5
ivory	34E 63-8
Cabinet Cover, Plastic ebony	34E 63-4
maroon	34E 63-6
ivory	34E 63-9
Escutcheon, Dial	23D 140
Escutcheon Ring (gold trim)	23A 53-1
Grille Cloth and Baffle Board ebony	A3980
maroon	A3981
ivory	A3982
Hinge	37A 8-1
Hinge Screw (6-32x¼ BH MS)	365-250-C2-58
Hinge Stud	27A 17-1
Jewel, Pilot Light	82A 21-4

Description	Part No.
Knob, Radio, "Off-Volume" (inner knob) ebony	33C 111-7
maroon	33C 111-3
ivory	33C 111-11
"Rad-Pho" (inner knob) ebony	33C 111-8
maroon	33C 111-4
ivory	33C 111-12
"Tone" (outer knob) ebony	33C 111-5
maroon	33C 111-1
ivory	33C 111-9
"Tuning" (outer knob) ebony	33C 111-6
maroon	33C 111-2
ivory	33C 111-10
Nameplate, "Admiral," Plastic	26B 45
Ring, Compression for dial pointer	19A 31-14
for "Off-Volume" knob	19A 31-11
for pilot light jewel	19A 31-15
for "Rad-Pho" knob	19A 31-5
Rubber Channel for cabinet top	12A 9-8
Rubber Foot for cabinet bottom	8A 10
Speed Nut, for mtg. nameplate	2B 12-3-69
Stay Arm and Plate	37A 9-1
Washer, Felt (for tuning knobs)	5A 4-21

PHONOGRAPH PARTS

M2	Cartridge, Pickup (Part nos. 409A 13, 409A 13-1 and 409A 16 used; see illustrations on back page.)	
M3	Cable, Shielded Pickup (includes plug)	413A 11-1
M4	Plug, Pickup Cable	88A 2-3
M6	Motor, Phono (3 speed)	407C 20
M7	Plug, Motor (Male)	88A 8-1
S3	Switch and Mtg. Plate	G400A 606
Adapter, 45 RPM (envelope of 12)		48A 8-2
Button, Snap-in Plug		13A 2-8-57
Centerpost Assembly		G400B 601
Idler Wheel (includes tire)		G400A 279
Kit, 50 Cycle Conversion		98B 15-24
Manual, Service		S454
Needle, Pickup for 409A13 cartridge		98A 15-19
for 409A13-1 cartridge		98A 15-18
for 409A 16 cartridge		98B 15-28
Needle Retaining Nut (for 409A13 cartridge)		98A 54-2
Screw and Washer, Changer Mounting (10-32x1¼ RH MS)		AA210
Spring, Changer Float		19A 10-3

*Transformers differ slightly. For best results, order exact part.
§Part of Diode Filter, part number 63A 3-1. This unit consisting of C8, C9 and R4 may be replaced with individual components.
†Part of couplate, part number 63A 5-6. See schematic.

MODELS 5D31, 5D32, 5D33, Ch. 5D3

ALIGNMENT PROCEDURE

- Turn receiver volume control full on.
- Antenna must be connected and placed in the same relative position to the chassis as when in cabinet.
- Use an isolation transformer; otherwise, connect a .1 mfd. capacitor in series with low side of signal generator and connect to chassis. Caution: Do not connect a ground wire directly to chassis.
- Connect output meter across speaker voice coil.
- Use lowest output of signal generator necessary to produce midscale meter indication and proceed in the following sequence.
- Repeat adjustments to insure good results.

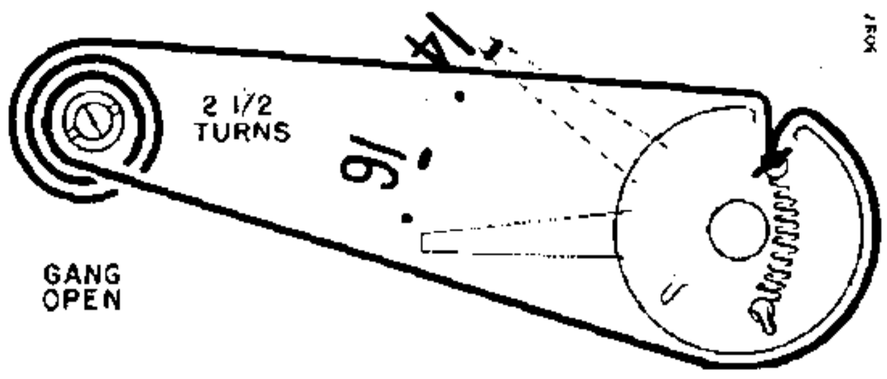
Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	.001 mfd. capacitor	Tuning capacitor, antenna stator	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum output
2	.001 mfd. capacitor	Tuning capacitor, antenna stator	1620 KC	Gang fully open	Oscillator	E	Maximum output
3	Loop of several turns of wire, or place generator leads close to receiver antenna for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna	†F	Maximum output

* Adjustments A and C made from the underside of the chassis. If IF transformers have hollow core slugs, these adjustments may all be made from the top of chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The bottom IF slug adjustment may be reached through the hollow core in the upper slug. If IF transformers have slotted tuning slugs, use an alignment tool with a blade 3/32" wide.
† Antenna Trimmer "F" should be aligned after chassis and antenna are mounted in cabinet.

RECORD CHANGER SERVICE DATA

The record changer model number is found stamped at the top rear of the changer pan and on the changer model label.

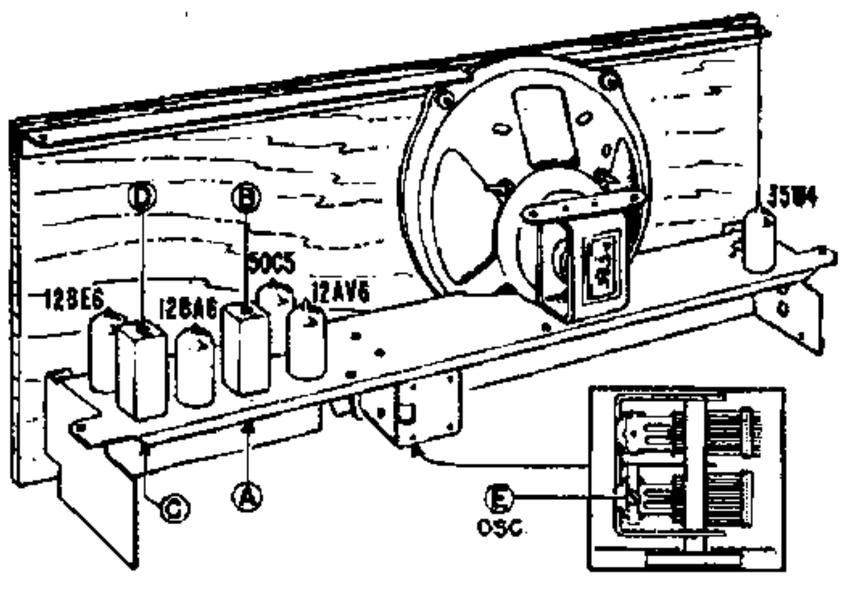
Models 5D31 Ebony, 5D32 Maroon, 5D33 Ivory



Solid lines show dial stringing and pointer position with tuning gang open. Dashed lines show pointer position (1400KC) when tuning gang is tuned to a generator signal.

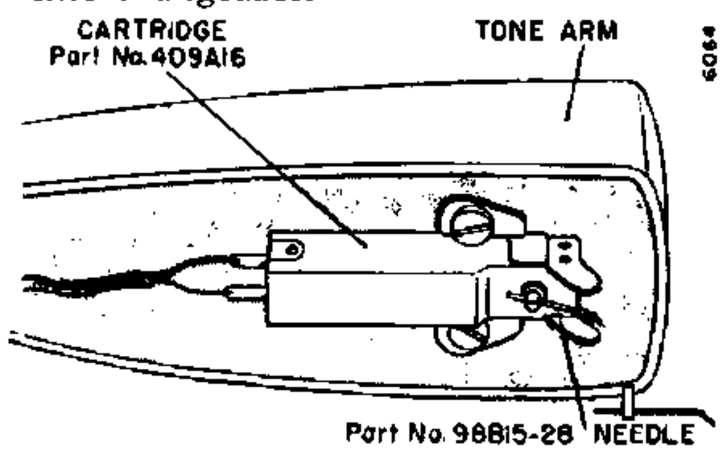
TUBE AND TRIMMER LOCATION

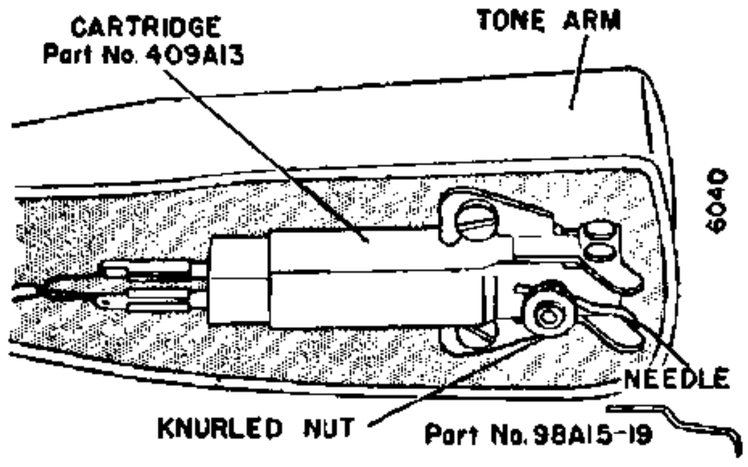
Adjustments A and C made from underside of chassis.
Adjustment F on antenna.

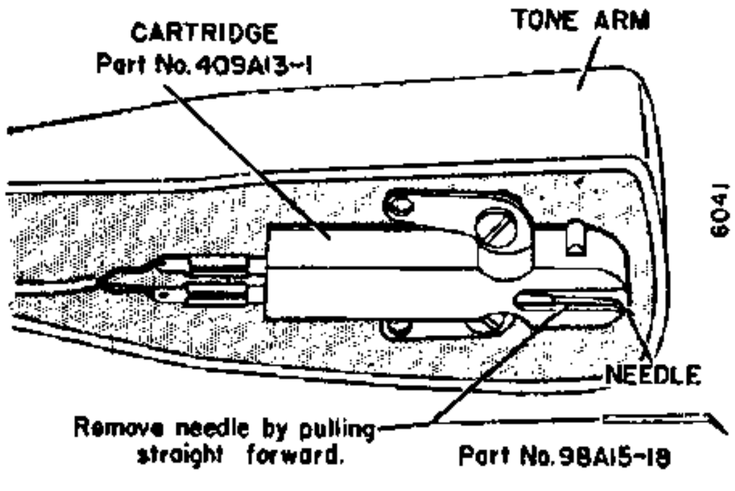


CARTRIDGE AND NEEDLE

Cartridges complete with needle are interchangeable.







S524