

MOST 1938 TO 1947 RECEIVERS

FIRST EDITION . OCTOBER 1947

Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

Entire Contents Copyrighted 1947 by Howard W. Sams & Co., Inc., Indianapolis 6, Indiana, U. S. A.

Copyright Under International Copyright Union
All Rights Reserved Under Inter-American Copyright Union (1910)

By Howard W. Sams & Co., Inc.

Compiled and Published by

HOWARD W. SAMS & COMPANY, INC. 2924 East Washington Street • Indianapolis 6, Indiana

PREFACE

A little over a year and a half ago a group of some thirty of us organized a new company with a new idea and a new purpose. We believed that technical radio data, properly prepared, could became a vital tool for better servicing... a tool as indispensable as a soldering iron, meter or a signal generator. We felt that the availability of factual information in a concise, standardized form would do more to help the service technician than any one other factor. Through the pursuit of this idea, PHOTOFACT Folders were born. Now we bring you the DIAL CORD STRING-ING GUIDE. We know you will like it.

I give you our pledge. Every PHOTOFACT Book will be practical—not theoretical. Every PHOTOFACT Book will be the result of original research and investigation. Every PHOTOFACT Book must save your time and help you make more money. This DIAL CORD STRINGING GUIDE is such a book. Use it at your work bench. Keep a copy in your tool kit. You will need it time and time again.

Havan N. Sams

October 1, 1947 Indianapolis

INTRODUCTION

One of the features of "PHOTOFACT" service which has elicited favorable comment from the radio service profession is the inclusion of a dial cord stringing diagram in each PHOTOFACT folder covering the servicing data on postwar radio receivers. In many instances such diagrams are not available as a part of the service manual provided by the receiver manufacturer, nor are they furnished universally by any other source of servicing material.

In response to a widespread demand from the servicing profession, the present book brings together in convenient form, not only the dial stringing diagrams of postwar sets but also those of many receivers manufactured since 1938.

In a great number of cases the sole reason for a service call to a customer's home is occasioned by the failure of the dial drive system. The format of this volume has been chosen with this situation in mind. It has been made of such size and shape that it will readily fit in the pocket or tool kit.

Often the service technician finds that the dial cord and spring have come off the pulleys and are a tangled mess in the bottom of the cabinet. This frequently presents an exasperating puzzle, for without a diagram it is difficult to determine how to start. Much precious time can be lost in fruitless trial and error experiment. Such time is hard to justify to the customer. As an example, there are four ways of stringing the average slide rule type dial. In the case of three of these, the pointer will either run the wrong way or will "hang up" in its travel. The remaining method is the correct one.

The present collection of dial cord stringing diagrams have been compiled from original PHOTOFACT data in the case of postwar receivers and from the available service data of receiver manufacturers for prewar sets. Every effort has been made to present as complete a compilation as possible. Some of the manufacturers' service literature did not include dial cord diagrams for certain prewar models.

Approximately 95% of the receiver models built since 1938 have employed dial cord drive systems as contrasted with belt, friction, planetary or gear drives. Only those types of drive systems which employ cord drive have been included in this book. The various manufacturers of drive belts have available authoritative guides and charts for proper belt selection. A universal type of belt has recently been offered by one company which can be cut to the required length and its ends permanently connected by means of an ingenious "zipper-like" device.

Requirements of a Properly Operating Dial Drive Mechanism

In the drive systems covered in this book, a cord of special type is used to connect and control all of the moving parts of the radio tuning and indicating system. Usually the cord is wound several times around a tuning shaft, carried over small pulleys to a larger pulley on the tuning device (condenser or permeability tuner), and thence to a sliding or rotary pointer which indicates on a scale the frequency to which the set is tuned. A tensioning spring is usually fastened to the cord and attached to the large pulley on the tuning unit. The driving force of this system is supplied by the friction between the cord and the tuning shaft.

For proper operation the following points must be observed:

- All drive members such as shafts, pulleys and pointer slides must be in good alignment and must rotate or slide without undue friction.
- 2. The cord must have proper tension. Too much or insufficient tension will interfere with proper operation.
- 3. The cord used must be of the proper size and type.

Causes of Slipping Drive Systems

The greatest source of trouble in cord drive systems is due to slipping. This can be due to any one or a combination of the following causes: insufficient tension, friction of moving parts or excessive smoothness of the surface of the drive cord.

Insufficient tension may readily be corrected by shortening the cord. This can often be accomplished by tying a knot in the cord where it will not interfere with operation. Tension may also be increased by removing turns from the tension spring. This practice is not generally recommended. In many receivers the large pulley to which the spring is attached is provided with a series of holes to allow adjustment of tension.

Excessive friction in the bearings of the variable condenser or permeability tuner may cause the cord to slip. Pulleys which do not rotate freely or pointers which bind instead of sliding easily may be the cause of cord slippage. In these cases adjustment or replacement of the defective parts is indicated. Lubrication should be done sparingly to prevent oil from getting on the cord. An oil for this purpose should have a very light body and contain an oxidation inhibitor to prevent gumming. The manufacturers of dial cords and accessories have special dial oils for this purpose.

Another cause of excessive friction is too much tension on the dial cord, usually caused by high spring tension. In replacing a dial spring, care should be taken to use either a replacement from the receiver manufacturer or a similar spring from the assortments available from dial accessory manufacturers.

Some types of dial cords have a tendency to become smooth and slippery after extended use. This will cause slippage on the tuning drive shaft, making operation of the receiver difficult or impossible. Replacement with a new cord is the best solution of this condition. Roughening of the tuning shaft with a file or coarse sandpaper is not recommended. The abrasive action of the rough shaft will cut the cord in a short period of time causing it to fray and eventually break.

Friction of the cord can often be restored satisfactorily by treating it with friction-producing compounds. These are available in powder, stick or liquid form. The liquid preparation is to be preferred since it not only penetrates and impregnates the entire cord but also has a tendency to shrink the fibres. This serves to tighten the cord and may sometimes remedy a slipping drive without the necessity of removing the set from the cabinet. The liquid can easily be applied with a dropper or applicator.

Properties of Dial Drive Cord

When it becomes necessary to replace a dial cord, this should be done with a cord especially developed for the purpose. Replacement should not be made with fish line, string or thread. The cost of the proper cord is a minor part of the repair job which is mainly labor.

In order to give satisfactory service for a long period of time, a drive cord must have the following mechanical properties:

- 1. Sufficient breaking strength.
- 2. Minimum elongation (stretch).
- 3. High resistance to abrasion.
- 4. High coefficient of friction.
- 5. Ability to withstand flexing.

The breaking strength should not be less than 20 pounds in a straight pull test and not less than 12 to 15 pounds when knotted. This allows tying and installing without danger of breaking. A higher tensile strength is of little advantage, as the normal operating tension on the cord, if properly installed, is seldom greater than one pound.

A good dial drive cord should have a minimum elongation or

stretch. Standard specifications of leading receiver manufacturers permit less than 1/4" per foot elongation in 48 hours with an applied pull of 5 pounds. Substitute materials such as fish line often used in repair work will not meet this or some of the other requirements.

A dial cord is subject to friction whenever the set is tuned and must therefore possess reasonable resistance to abrasion. Nylon outer braiding performs excellently in this respect and many cords

are now made using this material.

A very important property for a dial drive cord is that it have a relatively high coefficient of friction. This requires that the cord should not become smooth or slick during use. The type of thread used for the outer braid, the diameter of the individual strands and the method of braiding, determine its performance and life in this respect.

Small diameter drive shafts and pulleys subject the cord to continual flexing as the set is tuned. Choice of core and braid material determine the flexibility. The cord is chemically impregnated after manufacture to improve its flexibility and keep it soft during life.

Under the impetus of military requirements during the war, great advances were made in the improvement of dial cord performance. At present, various materials are used in the manufacture of cords to meet the foregoing requirements. Most common of these are nylon, silk, linen and fibreglas. Nylon and silk are suitable for outer braid material while linen, fibreglas or special low-stretch nylon are employed for cores.

Selection of the Proper Size Dial Cord

The proper diameter of the cord is of greater importance than is generally realized by most service technicians. The groove radius of the pulleys and the diameter of the drive shaft are generally designed for a certain diameter cord. If a cord of greatly different diameter is substituted either excessive or insufficient friction occurs and early trouble may be expected. A cord of different diameter from the original may also affect the dial calibration.

Fortunately, for general replacement purposes, three sizes of cords will take care of replacement in over 85% of the radio receivers in the field using dial cords. These sizes are:

- 1. "Special Thin" or "Extra Thin"—diam. .024"-.028".
- 2. "Thin" or "Standard"—diam. .030"-.034".
- 3. "Medium" or "Light"—diam. .038"-.042".

In most instances the service technician will have no difficulty in determining the proper replacement, since it is usually possible to compare the broken cord in the receiver with samples of these sizes. If the cord has previously been replaced and the customer complains of unsatisfactory operation, it may be necessary to consider whether a heavy enough replacement cord was previously installed.

As a general rule, when in doubt as to the proper replacement, it is advisable to use the heavier type (.040"), providing the following requirements are fulfilled:

- The cord must fit the grooves in pulleys and other parts of the mechanism.
- 2. When coiled around the tuning shaft with the required number of turns, the cable must not bind against the panel or support bracket, during its entire travel. In many instances the tuning shaft has been reduced in diameter at the section around which the cord is wrapped. In this case a drive cord of excessive diameter will tend to bind at the chamfered ends of the reduced section. This will occur near the end of travel of the system.
- 3. The cord must not be too large to fit properly in the worm type drive pulleys sometimes used.

The use of the heaviest cord practicable allows for more friction on the drive shaft, thus minimizing slipping and reducing the

possibility of stretching.

It is recommended that the service technician carry in his stock a large spool of each of the three sizes of dial drive cords described. While these sizes will handle most of the repair jobs to be encountered, there are many receivers requiring special cords such as phosphor bronze cables, heavier nylon cords, monel metal cables, special thin cables of steel and bronze or belts of bronze and steel. The catalogs of the various drive cord manufacturers should be consulted for these special types. Since the most important factor in servicing operations is time, it will pay to have small quantities of these "specials" on hand.

General Notes on Re-Stringing Dial Drive Systems

It would appear from an inspection of the diagrams of this book that the designers have vied with each other to display their ingenuity in devising intricate and novel arrangements. This situation requires that any instructions which might be given here cannot be specific but must be of a general nature.

There are a number of considerations which apply to all drive cord systems and it is suggested that the following points be used as a check list to assure rapid and satisfactory dial cord replacement.

- Study the diagram given in this guide and the receiver itself to determine the proper end of rotation of the large pulley on the tuning system, and the position and direction of travel of the pointer, from which to start the stringing procedure. If the stringing indicated does not seem to exactly fit the case in point, it would be wise to study the diagrams of other receivers of the same manufacturer. In the interest of covering as many models as possible in this book, similar diagrams have been combined and consolidated where such combinations will still show the correct method of stringing. In these cases the position and proportion of the various parts of the system may have been altered slightly to produce a universal diagram.
- 2. All pulleys, drive shafts, tuning mechanisms and sliding indicators should be checked to determine that they rotate or slide freely and have no tendency to bind. All points should be lubricated sparingly. Special light dial oil as provided by the dial accessory manufacturers should be used. Care should be taken to see that none of the lubricant is left on the cord.
- 3. Before actually stringing the cord around the parts of the system determination should be made that all pulleys and slides are in such position that there will be no sharp bends in the cord and that parts are not subjected to side friction during operation.
- 4. It is wise to next examine the tension spring or springs. If these show any indication of having had turns removed or of having been permanently stretched, they should be replaced. The new spring should be of the same shape, size and length as the original. The manufacturers of dial accessories provide assortments of springs for this purpose.
- 5. If it is necessary to cut the cord to length before stringing and the old cord is not available as a guide, be sure to cut enough cord to allow assembly including the tying of knots of the proper size. Since material is relatively inexpensive it is better to have a few inches of waste than to be forced to perform the operation over again.
- If a number of holes for the fastening of the tension spring have been provided, the spring should be positioned in one of the inner holes. This will allow later adjustment to increase the tension if required.
- 7. After stringing, the tension should be checked to determine whether it is sufficient for reliable, proper operation. Be certain that the tension has not been made too great. In no case should the cord be as tight as a violin string. A cord which is too tight

- will place undue strain on all parts and will prevent the set from tuning easily.
- 8. The tuning system should be rapidly operated from one end to the other to make certain that no binding is present. At the same time a check should be made that there is no tendency for the cord to climb out of idler pulleys or jam at the end of motion on the drive shaft.
- 9. Before replacing the set in the cabinet a drop of cement should be placed on the point of fastening of the pointer or indicator and also on the knots of the cord where it is fastened to the tension spring or to the tuning drive pulley, as the case may be. This will prevent any subsequent tendency for the knot to become loose.

We wish to acknowledge the assistance of the General Cement Manufacturing Company and the Walter L. Schott Company (Walsco) in the preparation of this book. These manufacturers of dial cords and accessories provided us with facts gained from their long experience.

EDITORIAL STAFF

H. E. BITNER	H. E. KREIPKE
B. L. COCHRUN	W. D. RENNEI
W. W. DEHN	W. E. RIGSBEI
B. V. K. FRENCH	J. R. RONK

Manufacturer	Diagram Number	Manufacturer	Diagram Number
ADMIRAL		AIRLINE (Continued)	
6C71	3	04WG569	39
6RT41	6	04WG569B	39
6RT42	5	04WG619 04WG621	
6RT43	5	04WG621NI	41
6RT44	2		42
6T01	5	04WG673	44
6T04	5	04WG674 04WG695	44
6T05		04WG695 04WG727	
6706	4	04WG728	
6T11	5	04WG732	45
7C62	7	U4WG803	
7C63			45
7P32	8	14BR474	
7P33	8		40
7106		14BR522A	
7112	10		
AEROMOTIVE			48
181-AD		148R1474	48
AIRADIO SU-41D	12	14WG469	47
SU-52A		14WG518 14WG519	6
SU-52B		14WG610B	
SU-52C	12	14WG611B	
AIRCASTLE		14WG624A	11
106B			
568	14	14WG680	
651	15	14WG683A	51
5000			50
5002		14WG737 14WG739	
5003	17		
5004		14WG741	52
The state of the s		14WG756	56
5010			
	18	14WG808M	56
	18	14WG808MA	56
6514		14WG808W	56
6541		14WG808WA 14WG1202B	56
	15	14WG1203B	
6612		14WG1203M	54
TOTAL CONTRACTOR OF THE PARTY O			54
6630			
	19		58
6632		54BR1503B	58
6635			58
AIR CHIEF		54BR1504A 54BR1504B	58
AIR KING	The second		58
4603	31	54BR1505A	55
4604			55
4608		54BR1506A 54BR1506B	
4609			53
4610		54KP1209B	53
4704			6
4706			6
AIR KNIGHT		54WG2007A 54WG2007B	
CA500	6	54WG2500A	57
N5-RD 291	6		57
AIRLINE	40		
04BR511A		62-131	
048R515A	43	62-142	
04BR515B	43	62-144	ii
04WG468	38	62-152	
04WG568	39	62-158	11

Manufacturer	Number	Manufacturer	Number
AIRLINE (Continued)		AIRLINE (Continued)	
	11	0214/0610	70
62-239	11		72
62-270	59	93WG754 93WG755	74
62-292	11	93WG800	74
62-294		93WG1102	80
62-303		93WG1103	46
62-309		93WG1104	46
62-321		93WG1110	80
62-347		ALLIED RADIO (See Knight)	No Victor Ses
62-373		AMC	-
62-374		125P	82
62-417	59	126	76
62-433		AMERICAN COMMUNICATIONS	
62-447		(See Liberty) ANDREA	
62-449	59	P163	
62-471		ARCADIA	73
62-472		37D14-600	~~
62-704		ARIA	78
62-705		554-1-61A	79
62-706		ARVIN	
62-707		552AN*	77
62-708		552N	77
62-709		555	. 77
62-710		555A	77
62-711	60	558	81
62-712	60	664	6
62-752	64	664A	
62-753	64	665	83
62-901	64	ATLAS	
62-910	60	AB-45	73
	62	AUDAR	5850
	62	PR-6	84
64BR1205A	65	PR-6A AUTOMATIC	85
64BR1206A	65	C60	6.4
	63	C60	86
	58	602	
64BR1504	58	612X	73
		613X	73
	63	614X	86
	67	616X	86
	69	620	87
	68	640 (Series B)	73
	68	AVIOLA	MINISTELL SKIN
	68	509	88
	68	601	89
64WG1801C	6	608	91
64WG1804A	71	612	89
64WG1804B	71	618	91
	71	BELLTONE	AND AND ADDRESS OF THE PARTY OF
64WG1807A	71	500	90
	71	BELMONT	
	68	A6D110	
	68	4B17	
64WG2007A	6	4B112	65
64WG20078	6		
	68	48A1	
	68	4BA2	
	68		
	57	5D128	
	57	5P19	
	67	6D111 (Series A)	
	69	6D111 (Series B)	92
	68	8A59	
	68	533 (Series B)	
	71	533 (Series C)	43
	71	716	
74WG2007B	6	BENDIX	Section 1
	6	0526	97
74WG2009B		626A	
74WG2010B	68	636A	
74WG2500A	57	636B	
74WG2505A	70	636C	98

Manufacturer	Diagram Number	Manufacturer	Diagram Number
BENDIX (Continued)		CONTINENTAL	
646A		A®11	
656A	100	A-11PH	118
6768		Во	
676C		B11	122
736B		XB6	122
BREWSTER		XL5	122
	103	CORONADO	
9-1085	103	43-6301	13
	103	43-6451	124
BRUNSWICK	The state of the s	43-7601B	38
		43-7651	
			124
A3720	102	43-8240	127
1680	107	43-8241	127
2660	102	43-8305	71
2689	107	43-8312A 43-8330	68
BUICK		43-8351	126
	104		
980733	104	43-8470	
980744	104	43-8471	68
900/43	104	43-8576	
BUTLER BROS. (See Air Knight or Sky Ro	NAME OF THE OWNER, WHEN THE OW		
20th CENTURY	over	CORONET	
100X	73		130
101		CROSLEY	
CHEVROLET	/ 3	46FA	6
985538	105'	46FB	6
985696	108	56PA	
985697	104	56PB	
985792 985793	109	56TA	
985794	106	56TC	
CHRYSLER (MOPAR)		56TC-L	
, 600		56TG	131
602	112	56TJ	
802		56TN	
CISCO		56TP	73
9A5	73		133
CLARION C100		56TS	
C101	· · · · · · · · · · · · · · · · · · ·	56TW	
C102	113	66CA	66
C102		66CO	66
C104		66CP	66
C105A		66CS	
C108	90	66TA	
C108		66TC	
11305	90	66TW	11
CLEARSONIC	2225	86CR	132
COLONIAL	11	86CS 106CP	66
629	112	106CS	66
671			
671A	112	DALBAR 100	134
CONCORD		400	
6C51B		1000 Barcombo Jr	
6D51B	117	Barcombo Jr	134
6D511	117	Barcombo Sr	134
6D51W		DELCO	The second
6D61B		R1175	135
	120		
6D61P	79	R1176	136
6D61P		R1176	
6D61P 6D61X 6D62W 6E51B		R1176 R1177 R1178 R1179	136 139 139
6D61P		R1176 R1177 R1178 R1179 R1181	

Manufacturer	Number	Manufacturer	Numbe
DELCO (Continued)		ELECTRONIC LABS	
R1207	138	76E	167
	138	76K	167
	138	76M	167
	137	76RU	141
	140	76W	14
	141	7108	167
R1217	141		
	142	710T	167
R1227	143	710T	
R1228	143	2701	167
	143	ELECTRO-TONE	
R1230A		555	18
R1231A	73	706	15
K1232A		712	18
R1234		EMERSON	
R1235	143	501	11
	73	502	11
R1409	73	503	
DETROLA	(*	504	11
554		505	
558	145	506	160
558-1-49A	145	507	158
568	14	509	158
		510	158
571		510A 511	* 150
571AL	117	512	147
571 AV	,	515	162
571AX	117	516	
571BL	117	518	158
571BX	117	520	11
571X	117	522	158
572	144	523	158
572 572-220-226A	114	524	170
576	144	525	159
576-1-6A	144	531	
579	120	533	162
582		535	
	140	539	159
DEWALD	148	540A	165
		541 543	73
	148	543	159
A501	148	544	159
A502	148	552	159
A503	148	1002	169
A504	149	D\$365 D\$372	164
A505	149	EQ368	104
		EQ410	
A605		ER369	144
A608		ER370	
ECA	-	EV384	
101	19	FH413	162
102	19	FH440 FJ412	162
104	18	FJ412	160
105		FW423	160
106		G8439	162
108	150	GB441	
131	10	GH437	
201	152	GH447	160
ECHOPHONE			160
EC112	153	EMPRESS	
		- 55	174
EC306	157	56	174
EC600	147	ESPEY	9.46
	157	RR13	
ELCAR	Springer south Co. The State Services	RR13L	72
602	155	651	
ELECTRO		652	15
B20	163	653	15
ELECTROMATIC	2017 072 021 001 001 001 001	6511	15
606A	156	6511-2	15
607A	156	6511-5	15

Diagra

Manufacturer	Diagram Number	Manufacturer	Diagram Number
ESPEY (Continued)		FARNSWORTH (Continued	0
6514		CT62	179
6516	15		179
6517			179
6520			187
6521		EC260	
6533	15	EK262	28
6540	15	EK263	
6541		EK263BL EK263WL	
6545	15	EK264	
6546		EK264BL	28
6547	15	EK264WL	
6560	15	EK265	
6612	172		180
6613		ET063	180
6615			180
77.57 P.			180
6631	172	FEDERAL	
6632	172	1030T	
6634			138
6635		FERRAR	TALL TO THE PARTY OF THE STATE
7541 FADA			184
602	179	FIRESTONE	manuscript of the second
605		4A2	21
606	185	4A20	
610	73	4A21	
637		4A22	
652		4A22X	24
1000 Series	173	4A23	
1001	175	4A24	
FARNSWORTH	17/	4A31	
BC66	177	4A37	27
BC105	177	481 482	
BC601	186	4C3	
BC601X	186	4C6	36
BK107		57400-4	33
BK108	177	\$7400-5 \$7406-7	
BK110		FORD	33
BK111			
- 三型(() () () () () () () () () () () () ()	186	FREED EISEMAN	and the substitute of
BK602X	186	46	193
BK6025	186	GAMBLE SKOGMO (See	also Coronadol
BK6025X	73	C4B15	48
BT20		C4816	
BT52	73	C5D14	
BT53	73	15C6A	191
BT54	176	15C6B	190
BT56		864 3128 (Late)	
BT61	176	4132	
BT600		4164	183
BT600	194	4956	45
CC70	187	GAROD	
CK58		5A2	192
CK66		5AP1-Y	194
CK73	197		
CK75		5D2	82
CK111	177	68U-1A	195
CT50		6DPS	196
CT51			196
CT52		GENERAL ELECTRIC	107
CT54		G64	200 -
CT61		G65	200

Manufact	224		Diagram
Manufactu			Number
		(Continued)	
G66	*******		197
G68			197
G69 G75			197
G78			107
G85			108
			197
G95			202
G99			198
GDE-7	3		204
GE-32			200
GE-73			204
GF-93			205
GE-96			205
H73 .			203
H77 .		********	203
H78 .			203
H79 .			203
H114			203
H118		********	203
H600			
H600U			207
H601		*********	207
H610		* * * * * * * * * * * * * * * * * * * *	207
H610U			207
HOLL		* * * * * * * * * * * * *	207
H620			
H621	C##*******		208
H622			208
H623			208
H625		· · · · · · · · · · · · · · · · · · ·	208
HOJU		* * * * * * * * * * * * * * * * * * * *	208
H630U			208
H631 H632			208
H632U			208
	TATAL STATE OF STATE		208
H634			203
H638			203
H736	* * * * * * * * *		209
HE74			204
HE74L			204
neluu			199
HETOOL	· · · · · · ·		199
HEIOO			199
HEIOS		• • • • • • • • • • • • • • • • • • • •	100
HE105	L		199
			204
HE/40			204
HJ119	******	· · · · · · · · · · · · · · · · · · ·	203
HJ737			209
HJ905			203
HJ908			203
HJ1205			203
J62			210
163			210
J64 .			211
J602		· · · · · · · · · · · · · · · · · · ·	212
1603			212
J614			212
J620			210
3004			
J709 .			209
J718 .			211

Manuracro		Number
GENERAL	ELECTRIC (Continued)	
J805		211
1808		211
J809 J818		211
1070		211
11106		211
J1108		211
JE81		213
JE101		215
JE107	***************	215
JE810		213
L600		212
L601		212
1611		212
L631		212
L642		212
L643		212
L650		214
L651		214
L652		214
1653		212
1662	.,	214
1673		212
1674		212
LF115		216
LF116	8	216
LFC11	8	216
LFC112	8	216
LICIZ	8	216
X125		220
X145		220
X225A		212
X225V		212
20		210
35		215
50		210
60	······································	211
80		211
100 .		217
101 .		217
103 .		217
105 .		221
180		210
200 .		272
201 .		222
203 .		222
205 .		222
205M		222
220 .		227
221		227
250 .		225
260 .		225
303		223
321 .		224
326		226
417		230
GENERAL	TELEVISION	
145		73
2A5 3A5 5A5		73
3A5		72
5A5		73
14A4F		6
15A5		73
17A5 19A5	tere and a site in executive error in a strate.	73
21A4		
22A5C		73
2344		72

Diagram

	Diagram	1	Diagram
Manufacturer	Number	Manufacturer	Number
GILFILLAN		HUDSON	
56A	73%		
56C			
56D	73	SA40	252
66A	229	JEFFERSON TRAVIS	
66AM	229	MR-2B	
66B	73	MR-3	
66DH	229	JEWEL	
66P	231	500A	
66PM	231	500C	
GLOBE	21277777	501A	
5BP1		501B	
6AP1		501C	18
6D1		502A	
	232	502C	
601 62C	237	503A	18
551	11	503B	18
GOODRICH (See Mantola)		503C	
GRANTLINE		504A 504B	
500	234	504C	
501	234	505A	
605 (Series A)	92	505B	
651	92	505C	18
6547	15	KNIGHT	
HALLICRAFTERS	10	5A-150 5A-152	15
S-38	235	5A-152	
S-40	236	5A-190	
S-41B	242	58-160	18
S-41W	242	5B-175	
HOFFMAN	40.00	5B-176	
A200	240	6A-122	
A300 A309 A401 A501	82	6A-195	16
A309	240	6B-122	
A401	82	6B-127	
A501	241	88-210 D-182	258
A700	238	D-182	
B1000		LAFAYETTE	
HOWARD		B33	6
4BT	171	B112	
220		B195	183
270	171	BB9 (A)	
271	171	FA15W	257
300 Series	243	BB9 (A) BB9 (B) FA15W FA15Y	
307-4	243	J62	237
307TP-2	243	J62C	237
430 (Series 2)	246	MC10B	11
460	250	MC13	
500 Series	245	LEARADIO	STATE OF THE SAME
718FM	249	561	260
768	248	562	260
768 780	248	563	
806	247	565	260
808	247	566	
808 (Series X)	259	567	260
810	247	568	260
865 868	255	661	270
901A-E			
901A-H	73	6612PC	
901A-I	73	6614	260
901A-M			
901A-P	73	6615	260
901A-W	73	6619	
906C	253	LEWYT	260
920	73	615A	245

	Diagram
	ufacturer Number
LE)	INGTON
	6545
LIB	RTY
	A6K
	6K
	6K
LIN	COLN
LIIN	\$13L-B185
LIM	COLN (Allied Radio Corp.)
LIN	5A-110
LYF	
	546T 73 546TY 73
	546TY 73 546TW 73
AA A	
MA	GIC TONE 500
	501
MA	GNAVOX
TIM	CR-101262
	CR-101M262
	CR-101
	CR-122 266 CR-187 263 CR-188 263 CR-189A 267 CR-189A 267
	CR-187
	CR 1804
	CR-189A
	CR-190
	CR-192A267
	CR-192B 267
	CR-193263
	CR-198A
	CR-193 263 CR-198A 263 CR-198B 263 CR-198C 263
	CHIRE
MΑ	500BI
	500BW 269
	500D1
	500DI
	561BI
	561DI
	561DW -240
	561 BI 269 561 BW 269 561 DI 269 561 DW 269 661 269
	661A
	700A
	700E268
MA	JESTIC
COUNCE	5A410272
	5A430272
	7C432274 7C447274
	85452
	7C447 274 8S452 273 8S473 273
64 A	NTOLA
MA	R459118
	R459118 R643
	PA52
	R652N 6 R654-PM 275 R654-PV 275 R655 275 R662 6
	R654-PM275
	K054-PV
	PAA2
	R662N
	R662N 6 R7543 73
MA	
MA	
MA	
MA	45-1A

	Diagram
Manufacturer	Number
MECK	
MECK	
PM-5C5-DW10	6
PM-5C5-PW10	6
PM-5C5-PW10 RC-5C5-P 6A6-W4	6
6A6-W4	187
MEDCO (See Telesonic)	
MEISSNER	
9-1065	6
MIDLAND	
M6B	279
MIDWEST	
MIDWEST	Text Transco
P-6	276
PB-6	276
5-8	282
ST-8	282
TM-8	282
MINERVA	
	171
L702	10
W117	19
W117	6
W117-3	11
W/02-B	171
W710	281
W702-B W710 W710-A	281
W728	19
MONITOR	The state of the s
	120
TA56M	120
I WOOM	129
MONTGOMERY WARD (See	Airline)
MOPAR (See Chrysler)	
MOTOROLA	
BK6	279
CR6	280
(10	279
CT6	279
FD6	279
FD6NH6	279
FD6 NH6 OE6 PC6 PD6 9-24 9-24A 9-44 16-C	279 279 279 279 279 283 285 285 285 288 284
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D	279 279 279 279 279 283 285 285 285 288 284 287
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D	279 279 279 279 279 283 285 285 285 288 284 287
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D 18-O 19-B	279 279 279 279 279 283 285 285 288 284 287 289
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D 18-O 19-B	279 279 279 279 279 283 285 285 288 284 287 289
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D 18-O 19-B	279 279 279 279 279 283 285 285 288 284 287 289
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-44 16-C 17-D 18-O 19-B 25-F 26-C	279 279 279 279 279 283 285 285 288 284 287 287 289 290 290
FD6 NH6 OE6 PC6 PD6 9-24 9-244 9-244 16-C 17-D 18-O 19-8 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B	279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 293
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B	279 279 279 279 279 279 283 283 285 288 284 287 289 290 291 291 293 293 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-8 25-F 26-C 26-C7 27-D 27-D6 28-O 29-8 29-86 30-P	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-8 25-F 26-C 26-C7 27-D 27-D6 28-O 29-8 29-86 30-P	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F	279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 293 293 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 293 293 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-8 25-F 26-C 26-C7 27-D 27-D6 28-O 29-8 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-81	279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 292 295 295 296 296
FD6 NH6 OE6 PC6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 37-D1 37-D2 38-O 39-B1 39-B2	279 279 279 279 279 283 285 285 288 284 287 289 289 291 291 291 291 291 291 291 291 291 29
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B1 39-B2 40-P	279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-44 16-C 17-D 18-O 19-8 25-F 26-C 27-D 27-D6 28-O 29-8 30-P 35-F 35-N 36-C1 36-C2 37-D1 38-O 39-B1 39-B2 40-P 43-H	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B2 40-P 43-H	279 279 279 279 279 279 283 285 285 288 284 287 289 289 291 291 291 291 291 291 291 291 291 29
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-34 16-C 17-D 18-O 19-8 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B2 40-P 43-H 44-K	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B2 40-P 43-H 44-K 45-B12	279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B2 40-P 43-H 44-K 45-B12 45-N	279 279 279 279 279 283 285 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PC6 PD6 9-24 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 37-D2 38-O 39-B1 39-B2 40-P 43-H 44-K 45-B12 45-N 51-C	279 279 279 279 279 279 283 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B1 39-B2 40-P 43-H 44-K 45-B12 45-N 51-A 51-C	279 279 279 279 279 279 283 285 285 285 288 284 287 289 290 291 291 291 291 291 291 291 291 291 291
FD6 NH6 OE6 PC6 PC6 PD6 9-24 9-24A 9-24A 9-44 16-C 17-D 18-O 19-B 25-F 26-C 26-C7 27-D 27-D6 28-O 29-B 30-P 35-F 35-N 36-C1 36-C2 37-D1 37-D2 38-O 39-B1 39-B2 40-P 43-H 44-K 45-B12 45-N	279 279 279 279 279 279 283 285 285 288 284 287 289 289 291 291 291 291 291 291 291 291 291 29

	Diagram		Diagram
Manufacturer	Number	Manufacturer	Number
AOTOROLA (Continued)	4.5000	NATIONAL UNION	
52-C	73	571	117
53-A	73	571A	117
54-A		G-613	324
	73	G-619	189
54-C 55-F11	303	OLDSMOBILE	
55-X11		982160	
55-X11A	304	982282 982375	327
55-X12A	304	OLYMPIC	
55-X13 55-X13A	302	6-501	328
55-X13A	304	6-501VU	328
60-XW	301	6-501WU	328
61-B	305	6-502 6-502P	328
61-C		6-502U	328
61-D	306	6-503	328
61-E		6-504	6
61-F		6-504L	220
61-T23	314	6-601V 6-601W	329
61-X11	301	6-602	329
61-X12	301	6-606	272
61-X13		6-606A	
62-A 62-B	305	6-617	329
62-E		PACKARD BELL	
62-F1	312	5DA	73
63-A		5FP	73
63-E	305	551	333
65-F11	303	551-D	333
65-F21		561	
65-T21	310	563	330
65-T21B	310	568	73
65-T21B	19	651	333
65-X12	19	662	332
65-X12A	19	861	332
65-X13	19	1052	334
65-X14	19	1052-A 1054-B	337
65-X14	19	1063	272
65-X14B	19	PHILCO	
71-A	313	UN6-100	336
75-F21	315	UN6-450	335
75-F21	306	UN6-500	335
81-F21	308	39-45	339
81-F22		39-55	342
81-K31		39-116	342
83-F1		39-770 40-110	338
83-K1		40-130	
85-F21	309	40-135	340
85-K21		40-140	
93-F195-F31		40-145 40-150	340
95-F31B	320	40-155	
95-F33 101-F21 101-R21	320	40-158	348
101-F21	319	40-160	345
101-R21	319	40-165 40-170CS	345
103-CK2	312	40-180	344
103-F2	312	40-185	344
103-K1	322	40-190	344
250 251	325	40-195 40-200	338
	325	40-201	338
AURPHY	250	40-205	342
113		40-215	342
		40-216	342
NATIONAL CO. NC-46	326	40-217 40-503	
	1	44.444	111111111111

Manufacturer	The last of	Number
PHILCO (Contin		AV TO A TO S
40-506	ivear	340
40-507		340
40-516		342
40-525		340
40-526		340
40-527 40-710		340
40-715		351
40-725		340
40-748		340
40-755		349
40-730		349
40-780		349
40-2710 .		351
40-2780		349
41-230		350
41-230 41-235		350
41-250		353
41-255		353
41-260		352
41-265		352
41-285		353
41-287	*********	252
41-290		353
41-295		338
41-296		353
41-300	**********	338
41-315X		338
41-316		342
41-600	***********	355
41-610		353
41-611		353
~1.010		
41-629		353
41-712	***********	354
41-714		346
41-722		347
41-745		347
41-758		347
41-759		347
41-788		356
42PT-4		343
42PT-7		343
42-121		362
42-122		358
42-123 42-124		361
42-125		364
42-350	***********	357
42-380		363
42-395		363
42-400		338
42-700	**********	343
42-730		344
42-761		359
42-762		359
42-788		356
42-1002	**********	369
42-1003		367
42-1003 42-1005 42-1008		365
42-1009M .		365
42-1009W		365
42-1012		368
42-1013M . 42-1013W		368
42-10131		308

Manufacturer	Diagram Number
PHILCO (Continued)	
42-1015	220
42-1016	
42-1016 44-131 46-132 46-200 46-2001	370
46-132	371
46-200	
46-2001	
46-201	173
46-201 46-202 46-203 46-250 46-250 46-251 46-251 46-350 46-420	173
46-203	173
46-2501	
46-251	372
46-350	272
46-420	377
46-420 46-420 46-421 46-421 46-421 46-427 46-480 46-1201 46-1203 46-1209	
46-421	
46-4211	374
46-427	375
46-480	376
46-1201	379
44 1200	378
46 1212	380
46-1209 46-1213 46-1226	200
PHILHARMONIC	
6810	104
8701	104
8701 8702	196
8702 8703 8710	196
8710	196
8711	194
0/12	196
PHILLIPS PETROLEUM CO	
(See Woolaroc)	
PILOT	Name of
T-411-U	381
1-500	
T-510	201
T 521	202
T-500 T-510 T-511 T-521 T-530	393
PONTIAC	
983667	384
983679	384
983680	394
983910	386
983911	386
984170 984171	108
984171	
PREMIER	107
15LW	
PURITAN	0000
501	385
501X	205
502	124
502	388
504	387
506	
507	20
506 507 508	25
RCA VICTOR	
QB-1	391
HF-2	390
QB-2	391
QU-2C	392
QU-2M	392
Q8-3	399
QU-3C	306
	000
QU-3M	396
508 RCA VICTOR QB-1 HF-2 QB-2 QU-2C QU-2M QB-3 QU-3C QU-3M HF-4 4QB	396 390 398

RCA VICTOR (Continued) 4Q84 QB-5 QU-5 TT-5 TRK-5 5Q5 5Q6 5Q8 5Q12 5Q12A 5Q55 5Q66	392 395 395 398 398 398 400 400 398 398	RCA VICTOR (Continued 16X4 16X11 16X13 16X14 Q-16 Q-16E 17K Q-17 18T Q-18 19K	
QB-5 QU-5 TT-5 TRK-5 5Q5 5Q6 5Q8 5Q12 5Q12 5Q12A 5Q55	397 392 395 395 398 398 398 400 400 398 398	16X11 16X13 16X14 Q-16 Q-16E 17K Q-17 18T Q-18	
QU-5 TT-5 TRK-5 5Q5 5Q6 5Q8 5Q12 5Q12A 5Q55 5Q55	392 395 395 398 398 398 400 400 398 398	16X13 16X14 Q-16 Q-16E 17K Q-17 18T Q-18	
5Q6 5Q8 5Q12 5Q12A 5Q55 5Q56	398 398 400 400 398	16X14 Q-16 Q-16E 17K Q-17 18T Q-18	
5Q6 5Q8 5Q12 5Q12A 5Q55 5Q56	398 398 400 400 398	Q-16E 17K Q-17 18T Q-18	
5Q6 5Q8 5Q12 5Q12A 5Q55 5Q56	398 398 400 400 398	Q-16E 17K Q-17 18T Q-18	416
5Q6 5Q8 5Q12 5Q12A 5Q55 5Q55	398 398 400 400 398	17K	416
5Q8 5Q12 5Q12A 5Q55 5Q55	398 400 398 398	Q-17	SOUND SHOWING THE PERSON OF TH
5Q56	398	18T	139
5Q56	398	Q-18	
5Q56	398		139
5Q56	398		
		U-20	
	200	Q-22	20
6QU		Q-22A	
HF-6	401		416
QB-6	301	QK-23	
6Q1	402		
6Q4	402	25BK	391
6Q4X		25BT2	418
6Q7	400	25BT3	419
6Q8	400	Q-25	418
6QK8	400	U-25	420
7QB	403	26BP	
/QBK	403	26X1	
QU-7	407		397
7Q4	405	26X4	307
7Q4X	405	Q-26	397
7QK4	405	U-26	305
HF-8	401	27K	422
8QB	403	Q-27	420
8Q8K	403	287	
QU-8	407	28X	140
8Q1		28X5	140
8Q2		28X5 29K	141
8Q4	406	29K2	141
8QU5C	404	Q-30	423
8QU5M	404	U-30	414
9QK		Q-31	423
TRK-9		Q-33	
9M1	410	34X	
9Q1	400	35X	411
9Q1	400	36X	397
9Q4	405	U-40 BK-42	
1001		BY-42	427
10-X	411	U-42	42/
U-10	107	U-43	107
11Q4		U-43 Q-44	424
11QK	414	U-44	425
1100	414	U-44	424
11X-1Q-11	411	U-45	425
Q-11	397	K-50	
12AX	411	M-50	400
12AX2		11.50	400
12Q4	414	QU-51C	428
12QK	414	QU-51M	428
12QU	414	B-52	
12X	411	QU-52C	392
	411	QU-52M	392
		55AU	429
U-12	107	55F	419
		55FA	419
		55U	429
14AX2	411	55FA 55U QU-55	430
14X2	411	1-55	107
Q-14	410	X-55	107
Q14E	412	56X	431
Q-15		56X2 56X3	
Q-15E	412	56X3	431
15X	307	56X5	397
16K	413	56X10	397
16K	413	56X11	397
1673	413	QU-56M	
16T4	413	T-56	
	THE MANAGES IN THE	27.00	

anufacturer		Number
A VICTOR	(Continued)	
	(Continued)	142
58AV	******	142
59AV1 .		142
		142
3941		142
M-60		409
K-60		434
T-60		107
X-60		107
K-61		107
K-62		121
T-62	*************	107
T-63		107
64F1		10/
0451	* * * * * * * * * * * * * * * * * * *	138
64F2		138
64F3	* • • • • • • • • • • • • • • • • • • •	P138
T-64		433
65AU	************	429
65U		429
65X1		138
65X2	****************	138
T-65		433
66BX	20.00.00.00.00.00.00.00.00.00.00.00.00.0	435
66X1		424
66X2	• • • • • • • • • • • • • • • • • • •	424
4442		430
66X3	*******	436
66X4		436
66X9	· · · · · · · · · · · · · · · · · · ·	436
67AV1 .	************	437
67V1		437
M-70		439
K-80		434
T-80	***************	433
K-81		434
K-82		434
TRK-90 .		410
94BK2	*	410
94BT2	*******	442
94812	**************************************	442
95T5		443
95T5LW		443
96BK6	****	442
96BT6		442
96E		443
96E2		395
96K		395
96K2	T-VIDE BOOK OF THE CONTROL OF THE CO	395
96K5		305
96K6		205
96T		395
96T1		443
9011		443
96T2		395
7013	************	375
96T4		441
96T5		441
96T6		441
96T7		395
96X1		444
96X2		444
96X3		444
96X4		444
96X11		444
96X12	· · · · · · · · · · · · · · · · · · ·	444
90112		444
96X13		444
96X14		444
97E		395
97K		395
97KG	Tel de Commercial de la	395
97K2		395
97T	V-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	395
97T2		305
		373
		443
97Y		395
98EY		395
98K		4 4
98K2		395

Diagram

munoraciorer		Number
RCA VICTOR	(Continued)	
QXI		200
98T2		395
084		395
98YG	************	395
99K		395
99K	***********	414
991		414
V-101		440
V-102		413
K-105		434
110K		445
110K2		445
111V		
111K U-115	band)band).	443
U-113	***********	443
0-119		395
1RK-120	************	410
0-121		443
U-122E .		395
U-123 (1	band)	443
U-123 (2	band)	441
U-124		305
11 12%		305
11,124		414
11.1275		414
U-127E .	* * * * * * * * * * * * * * * * *	443
U-126		414
U-129		414
U-130		390
U-132		401
U-134	THE RESERVE OF STREET AND ADDRESS OF STREET	401
V-140		446
V-170		413
V-175		413
		447
V-201		130
VHP 202		447
V 205		447
V-205		447
VHR-207	************	44/
V-209		142
V-210		142
211K		141
VHR-212		142
4-210		
V-2 Y		142
V-221 V-225		
V-225		142
V-300		447
V-301		447
V-302		447
VHP 207		447
V 405	***********	447
V-403	************	447
VHR-407		44/
515		39/
516		411
517		411
522	**********	411
526		411
527		411
612V1		448
612V2		448
612V3		448
910KG .		414
911K		414

RADIOLA		-
61-1	*********	397
61-2		397
61-3		397
61-5		397
61-10		397
		The second secon
RADIONIC	- 1	174
6W		167
	TELEVISION (See L	
	Tarana Maria Cara E	a, cher
RAY ENERGY		
AD	********	449
AD4 SRB-1X .		453
SRB-1X .	************	450
CONTRACTOR A	interventing the contract of t	total dilinisting

Diagram

Manufacturer	Diagram		Diagram
	Number	Manufacturer	Number
RECORDIO 6B10		SILVERTONE (Continued)
(MICE) 20 10 10 10 10 10 10 10 10 10 10 10 10 10	451	4686	
- 2222 Streetskerk			
REGAL		4767	
L76	171	4777	
W800	171		
W900			
W901		5502	
	452	5511	460
REMLER	765	5511-A 5571	460
MP5-5-3	173	5571-A	
	455	5581	458
PT-1A	455	5801-A	460
1B5T-1		6008	
SCOTT		6009	464
	456	6011	467
SEARS ROEBUCK (See	Silvertone)	6012	467
SENTINEL 263		6017	
		6018	
273	ren.		
284-1	26		
284-I 284-NA 284-NI	26	6038	
284-W	26	6046	464
285-P		6047	
289-T 292-K	23	6049	
293-1	454	6050	6
293-Y	459	6051	468
293-W	459		
294-I		6069	
294-T	459	6071	6
1U-284I		6072	
1U-284NA 1U-284NI	26	6079	470
1U-284W	26	6092	
1U-284W 1U-285	261	6100	
1U-2931	459	6104	466
1U-293W	450	6103	466
1U-294I 1U-294N		6111	466
1U-294N	459	6132	
1U-294V		6136	470
SEICHELL-CARLSON	439	6138	470
416	192	6146	464
SILVERTONE R-381		6157	473
	458	6168	464
R-1161	458	6190 6200-A	474
1//1	458	6220	
1781-A		6220	475
2011		6230	477
2051	73	6285-A	478
		6301	
		6303	476
2/01	458	6320	471
4608	461	6322	471
		6323	
4629		6324	471
4638	461	6335	472
4639		6336	472
		6337	
4666			
4667			
			CONTRACTOR CONTRACTOR CONTRACTOR

mar	uracre	urer				Number	
SIL	/ERTO	NE	(Continu	ued)			
	6360					472	
	6361	**		*:* *:*:*:		472	
	6362					472	
	6363	**	*****			472	
	6364					472	
	6368	* *				472	
	6379	**				472	
	6380					472	
	6381					472 472 472 472 472 472 472 472	
	6407	**	*****	101 1 3 2 1		472	
		14040				472	
	6409					470	
	6421	**	****			472	
	6424					471	
	6425	**		****		472	
	6435					472	
	6436					472	
	6437					472	
	4420						
	6438-	A .	energeneral and			472	
	6438-	В				472	
	6439					472 -	
	6439-	A		* * * * * * *		472	
	6440	The second			1000	472	
	6441					472	
	6446					472	
	6447			100		471	
	6449					460	
	6490		o roses sue se	*****		472	
	6490-	A				472	
	6495	100.00				472	
	6497					472	
	6551					472 472 472 472 482	
	6561					482	
	6621					482	
	6661	160	*****			482	
	6721					482	
	6751	14.4				482	
	6/51-	A	*****			482	
	6761					482	
	6761-	A				,482	
				*****		482	
	7010					479	
	7021 7034					481	
	7037			110551	****	479	
	7038					404	
	7048		100			484	
	7049	**				466	
	7054			****		480	
	7065				70.79	489 73 73	
	7066					73	
	7067					466	
	7068		10 k 11 k 12 k		1000	466	
	7069					483	
3	7070					483	
	7071					487	
	7080					486	
	7090	10.5				488	
	7100					485	
40.	7104					491	
	7106					491	
	7112	**				491 490 490	
	7115					490	
	7116					490	
	7117				*****	490	
	7167					466	
	7168 7221					466	
	7228					466	
	7230					410	
	7245	**				395	
	7905	**		*****	****	492	
	7905					400	

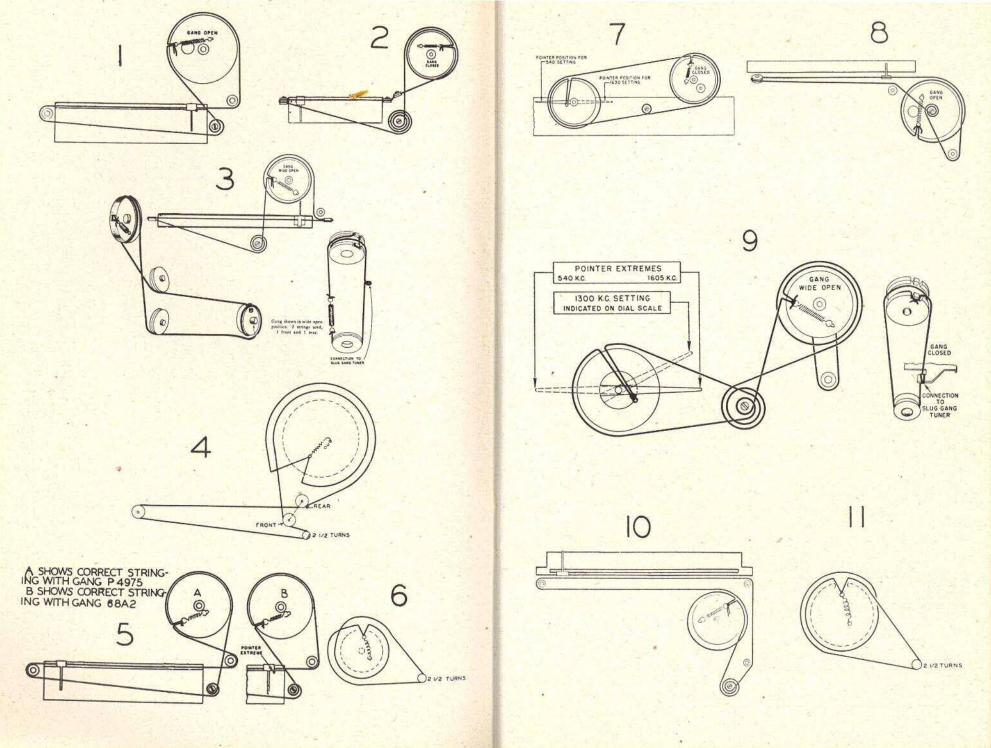
Diagram

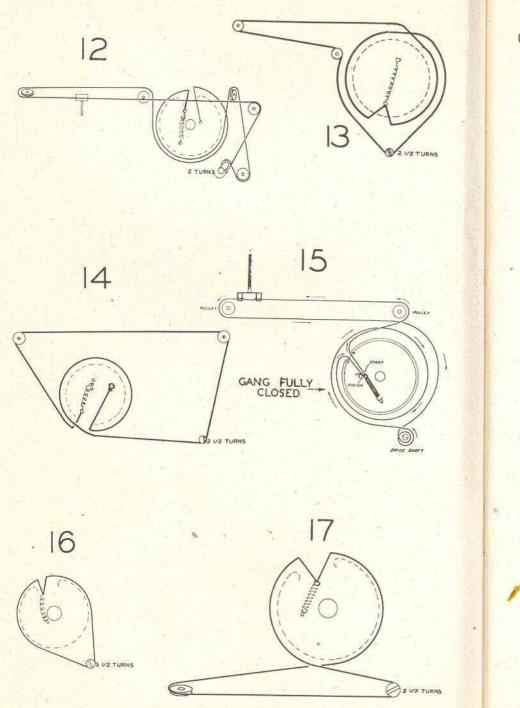
Manufacturer	Number
SIMPLON	
WVV2	494
CB-500-P	
N5-RD-250 N5-RD-251 SONORA	20
SONORA	
RBU-176 RCU-208 RDU-209 RKRU-215	405
RDU-209	189
RMR-219	404
SPARTON	49/
5AM26PS 5AW06 6AW26PA 7AM46	500
5AW06	503
7AM46	499
8AM46	499
8AM46	504
STEWART-WARNER	
01-5H	509
010-644	509
010-6BX 01-6C 010-6CX	509
010-6CX	509
01-00	307
01-6F	509
01-6F9	507
01-6GZ	507
01-8C7	506
01-6F 01-6F 01-6G 01-6G 01-8GZ 01-8CZ 01-8CZ 01-9A 01-9A 2 11-6U	506
01-9A-Z	506
11-6U	505
11-7A9	508
11-8F 11-8R 11-8R8	510
11-8R	508
11-8R9	508
11-78	
11-9B-Z	510
517126	20
11-10A	20
	20
61716	20
61TR36	511
62T16	20
62TC16	512
62TC16 62TC26 62TC36 72-CR16	512
72-CR16	510
/2-CR20	513
205GZ	513
9000-b	20
7001-0	22 22 22 22
7001-6	22
9002 (Dial Only)	20
	514

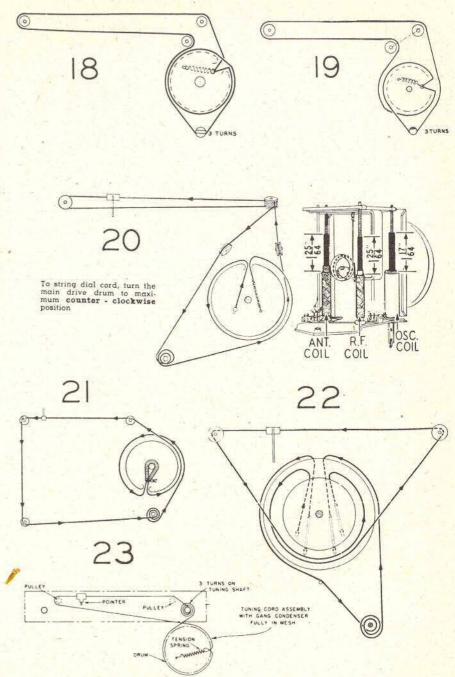
Diagram

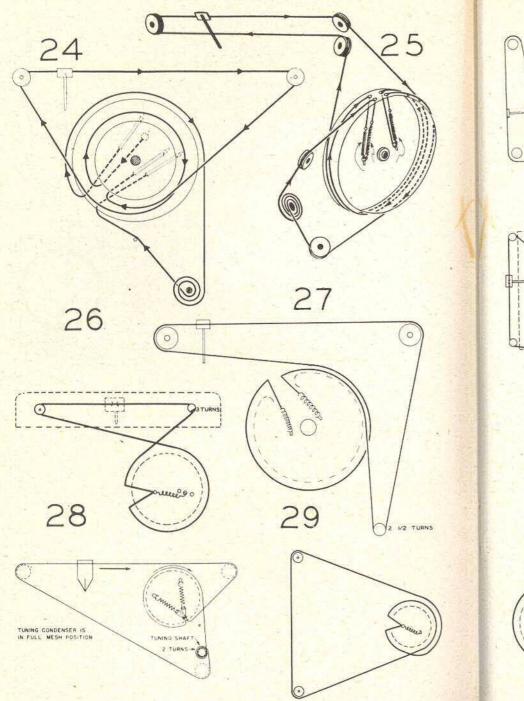
Manufacturer	Diagram Number	Manufacturer	Diagram Number
STEWART-WARNER (Continue		TRUETONE	
9004	510		80
9005-A	14	D934	466
7003-6	14		40
9007-A	516	D1016	40
9007-F			45
9007-C	***		
9014-E (Dial Only)	20		
9017 (Dial Oals)	20	D1118	
9017 (Dial Only) A51T1	20		
	515		
	515	D1145	41
A51T3	515	D1172	41
A51T4			
R-3581			
R-3589	513	D1215	40
R-3861	513	D1224	48
R-3869	513	D1644	189
STRATAVOX		D1645	
579-1-58A	120	D2127	182
CTROMPERO CARLOS			
STROMBERG-CARLSON		D2149	41
1100-Н	517		
1100-HI	517		40
1101-HB	454	D2224	
1101-HI	454	D2224	
1101-HM		D2261	
1101-HW	454	D2610	527
1101-HY 1105 (Series 10-11)	454	D2611	527
1105 (Series 10-11)	518	D2612	20
1110-HW (Series 10)	519		20
1110-HW (Series 10) 1110-PTW (Series 10)	519	D2615	529
1121 (Series 10-11-12).	520	D2616	
1121-HW	520		531
1121 IW	£20	D2621	530
1121-M1-O	520	D2622	
1121-M2-W	520	D2623	
1121 M2 Y	520	D2624	78
1121-M1-O 1121-M2-W 1121-M2-Y 1121-PFM 1121-PFW	520	D2630	78
1121 PEW	520	D2634	125
1121 PCH	520	D2642	275
1121-PGM 1121-PGW		D2644	13
1121-PGW			68
1121-PLM	520	D2661	
1121-PLW	520		4
	520		95
SWANK			
DU101	521		
TELESONIC (MEDCO)		ULTRADYNE	
1635	6		25
1642		U. S. TELEVISION (Se	
TELE-TONE	CONTROL CONTROL CONTROL	5-16 Series	e also Clearsonici
109	258	3-10 Series	
117-A	258	5-46 Series UNITONE	1/4
133	258		171
134		88	171
135		VAN CAMP	747412
		576-1-6A	144
TEMPLE	NAMES OF	VIEWTONE	74. 20050
E510			173
E511		RRC-201	173
E511	189	VOGUE	
F611	324	553R	
F616	523	554R	11
F617		WALGREEN	The second secon
G515		568	14
G516	189	571	117
TEMPOTONE		WARWICK (See Clario	n)
500E Series	269	WATTERSON	
TRAV-LER		4581	73
5000	11	RC4581	73
5000-1	11	4582	
5002	73	ARC4591A	73
5007		4790	132
5008		WELLS-GARDNER	
5009	18	1A17	46
		1470	45
5010	18	1A29	102
5012		1A62-4	102
5020	73	1A63 Series	103
		IMOS Series	

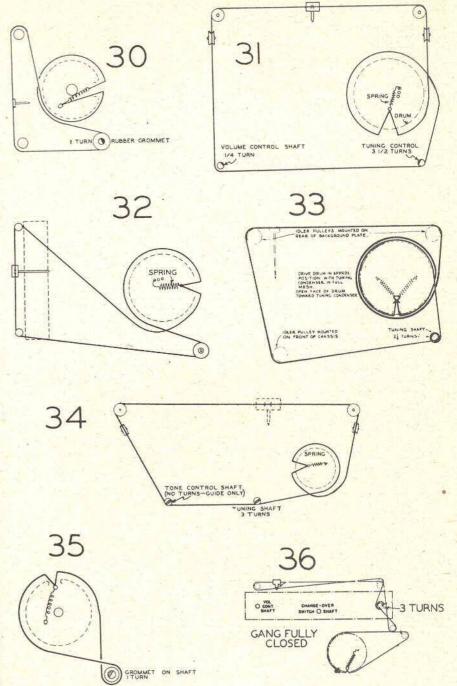
n-constant	Diagram Number	Manufacturer Number
Manufacturer	Number	WESTINGHOUSE (Continued)
WELLS-GARDNER (Continued)	102	WR-274102
1A63-3	102	WR-290
1A63-4	72	WR-366410
6A43	41	WR-368410
6844	41	WR-370410
6A65 Series	47	WR-372107
6B10	532	WR-373107
6B16	532	WR-374
6B18		WR-473107
7A40		WR-474107
7A66		WR-476102
7D11 Series	182	WR-480537
8A30		WR-482
8A31		
A10 Series		WILCOX-GAY (See Recordio)
		WOOLAROC
A20 Series	60	3-1A 20
A23 Series	60	3-2A
A24 Series		
52		3-4A
T3 Series	64	3-10A385
WESTERN AUTO (See Trueton	e)	3-11A387
		3-29A388
WESTINGHOUSE H-104	533	ZENITH
H-105	533	4K016
H-107	533	5D011544
H-108	533	5D027544
H-111	533	5G003544
H-113	535	5R080
H-114	535	5R086544 6D014542
H-116	535	40014W
H-117	535	6D015544
H-122	534	AD015Y
H-125	536	6D029
H-126		6D030544
H-133	539	6G001544
H 137	533	6G001Y544
H-138		6G004Y
H-148 H-155	524	6MF501
H-155	536	6MF593
WR-12X7	537	6MN495547
WR-12X8	411	6MN496547 6MN595546
WR-12X9		6MN595546 6R084549
WR-12X12 WR-12X14	397	6R087542
WR-12X14 WR-12X15	137	7M1592550
WR-12X16	140	7HN506
WP-13X8	411.	8G005Y542
WR-42X2	446	8H023
WR-42X3	413	8H032552
WR-42X4 WR-42X5	437	8H034
WR-42X7	413	8H050552
WR-42X14	437	8H051552
WR-42X15	437	8H052
WR-158	443	оното 542
WR-168	540	9H079E542
WR-168A	107	онотор
WR-172	107	9H081
WR-175	107	
WR-176	107	9H085R
WP 259	443	12H090
WR-260	541	12H091
WR-264	395	12H092
WR-270	107	12H09435
WR-272	107	120000

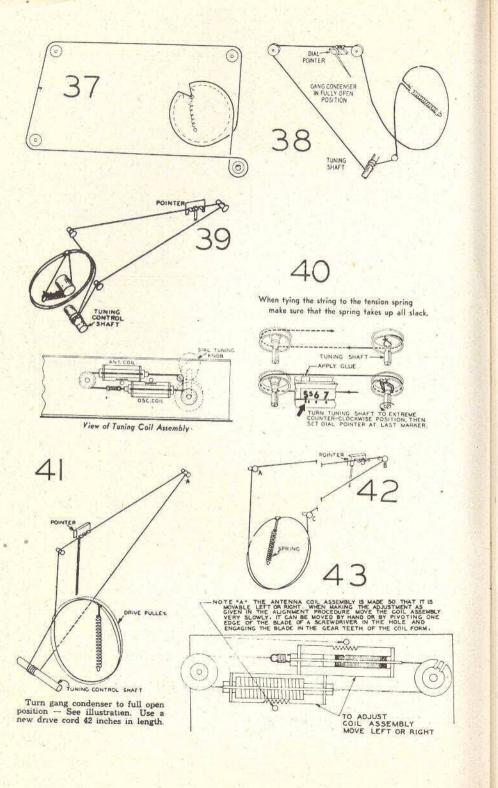


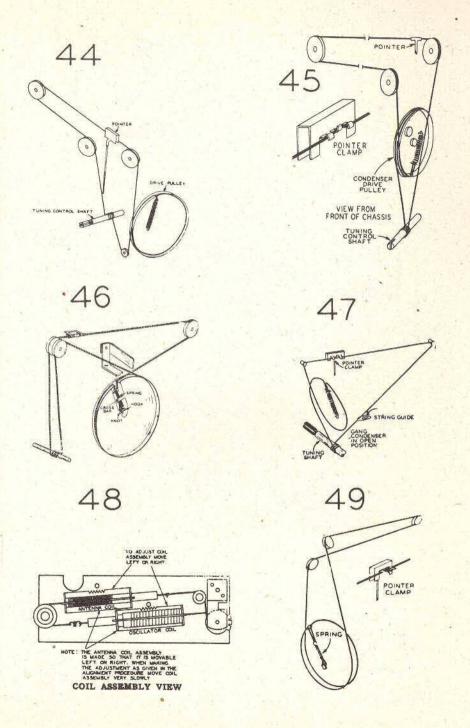


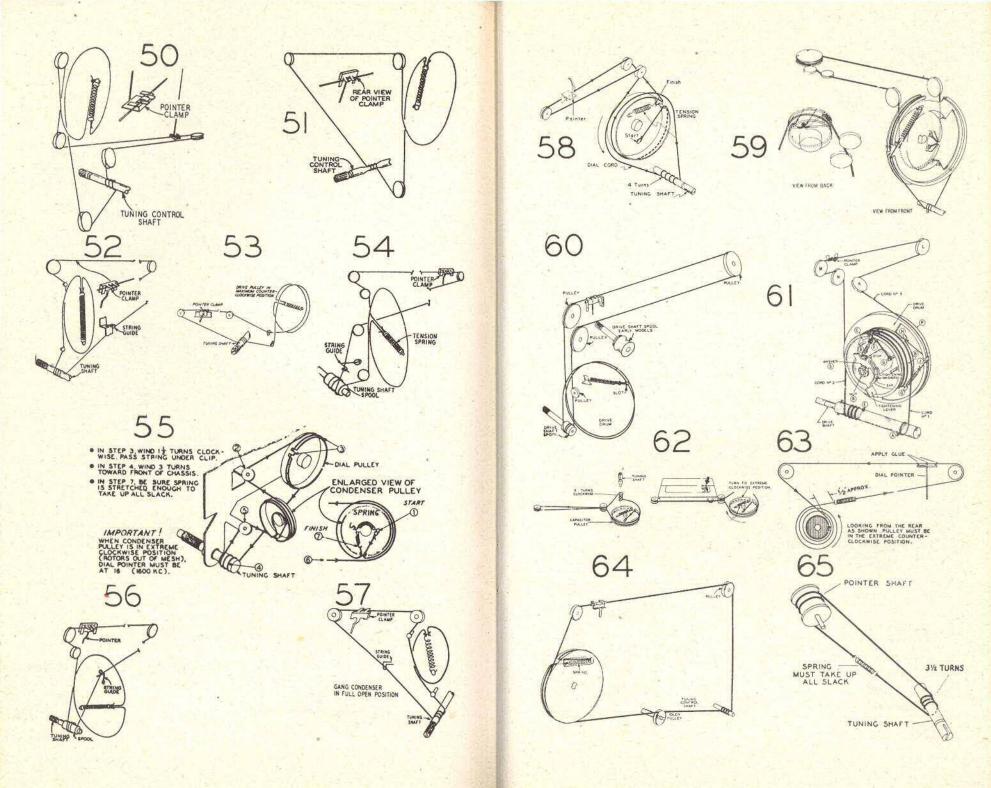


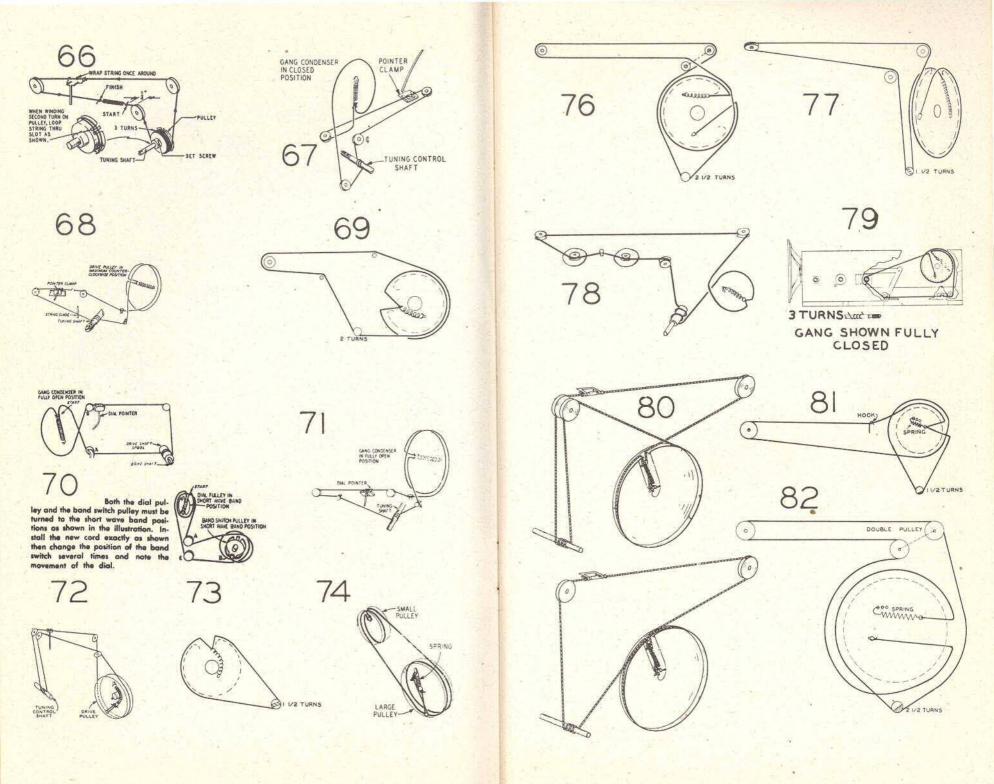


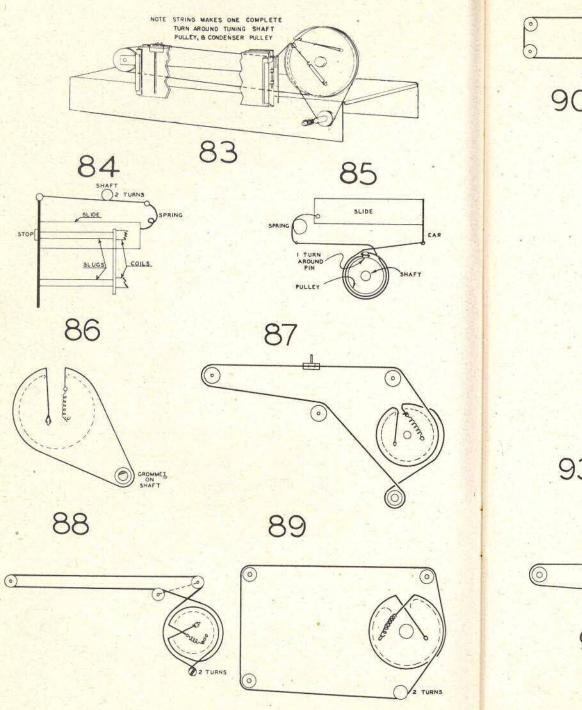


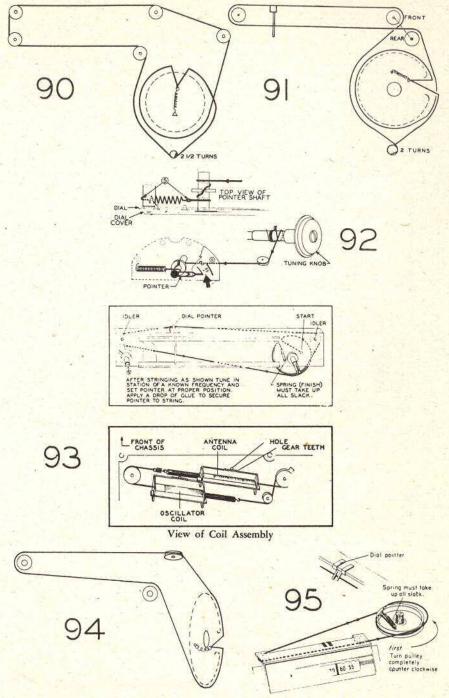


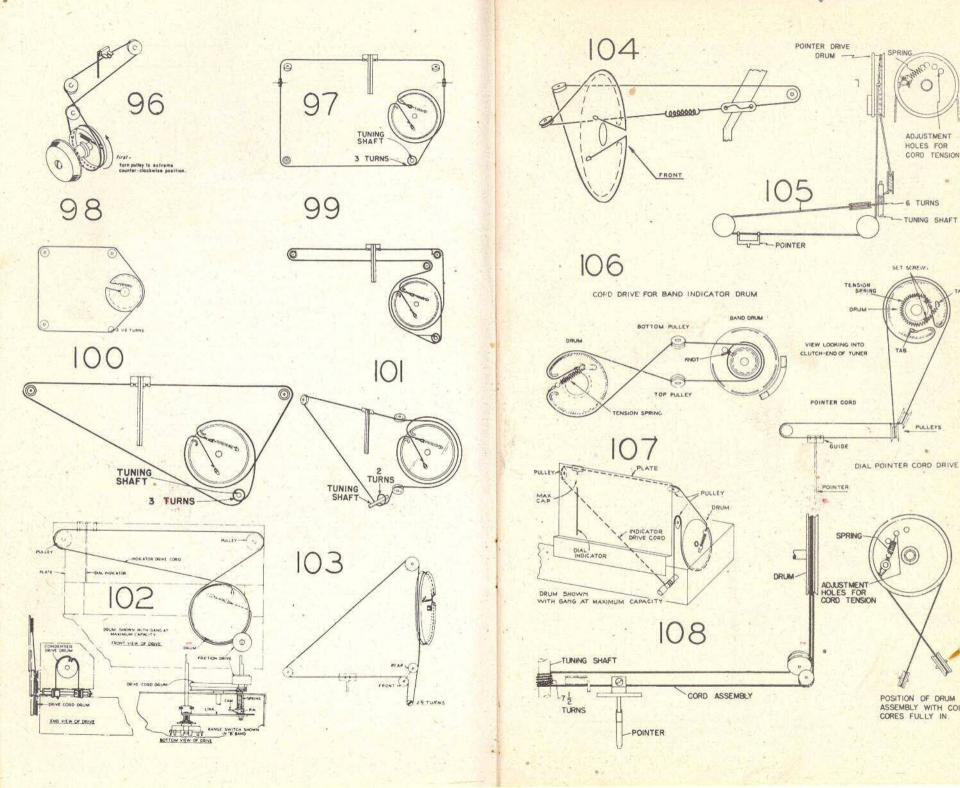












ADJUSTMENT HOLES FOR CORD TENSION

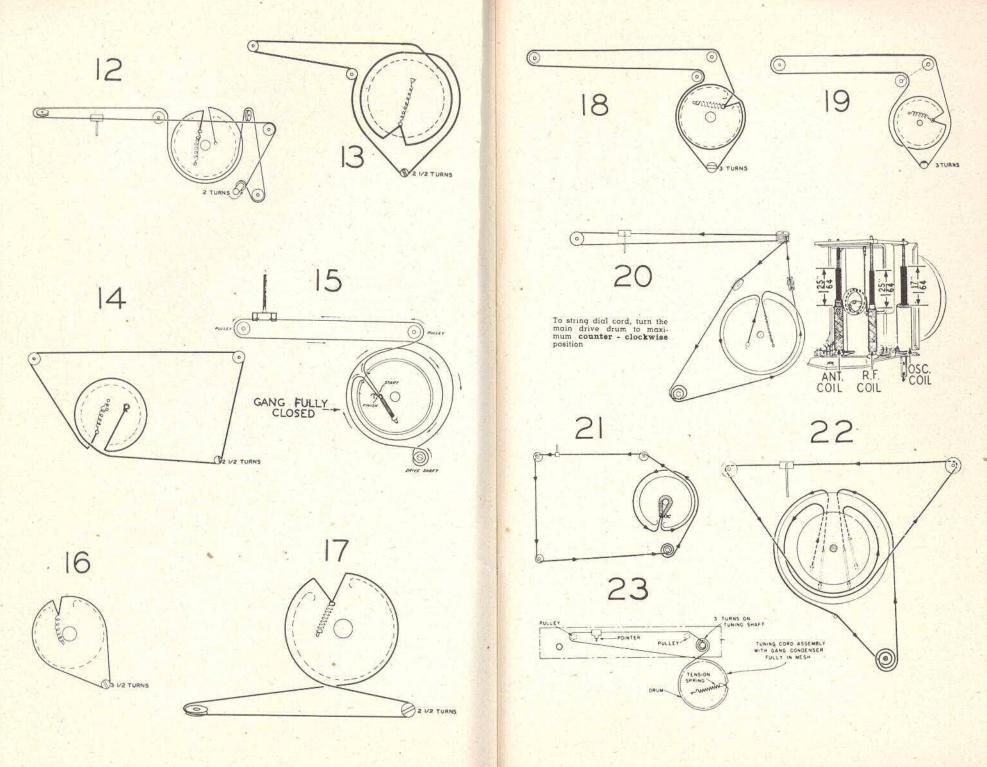
- 6 TURNS - TUNING SHAFT

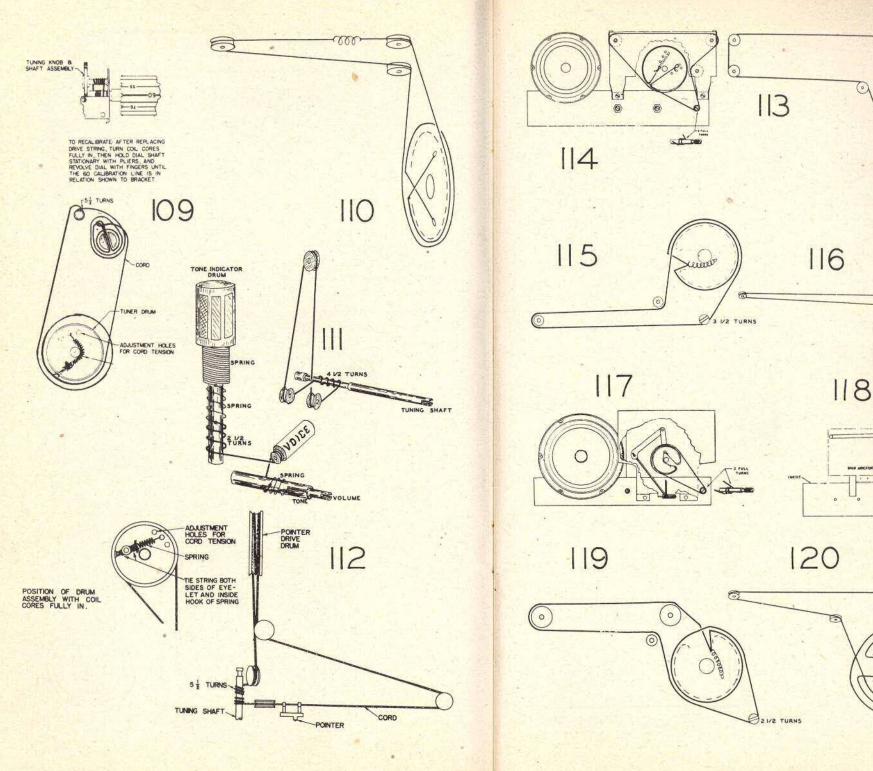
SET SCREW.

PULLEYS

POSITION OF DRUM ASSEMBLY WITH COIL

CORES FULLY IN

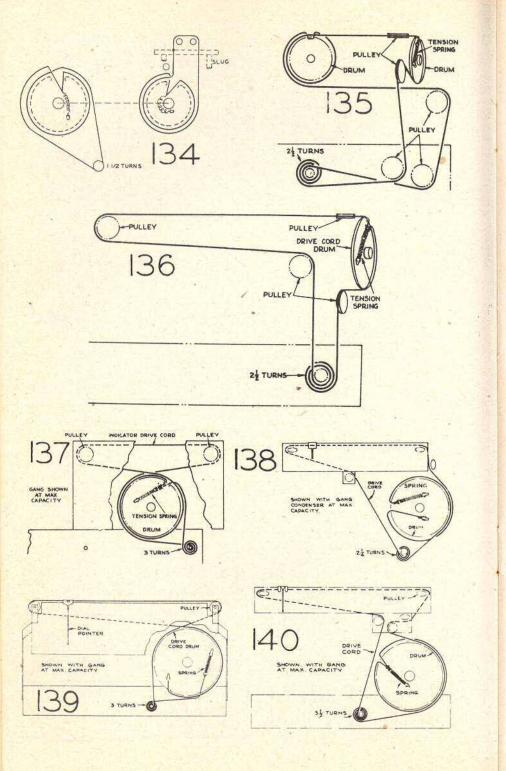


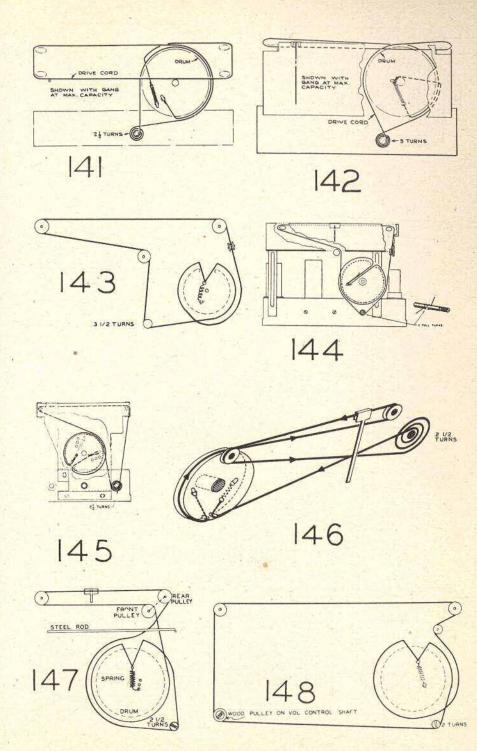


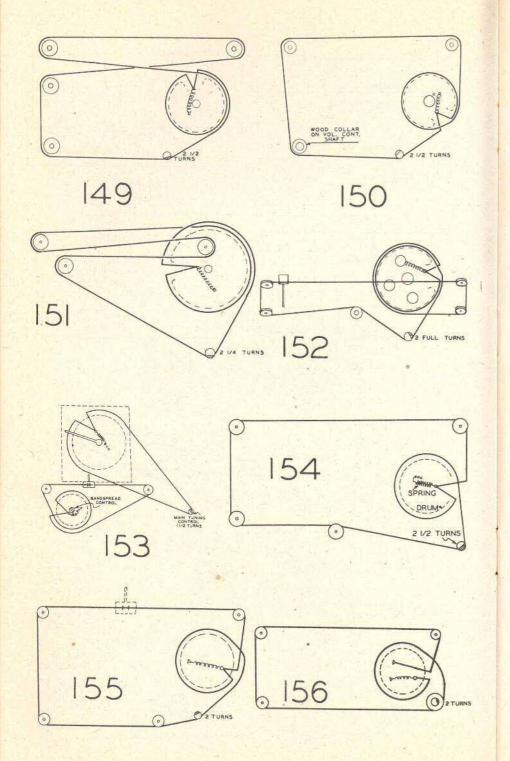
3 1/2 TURNS

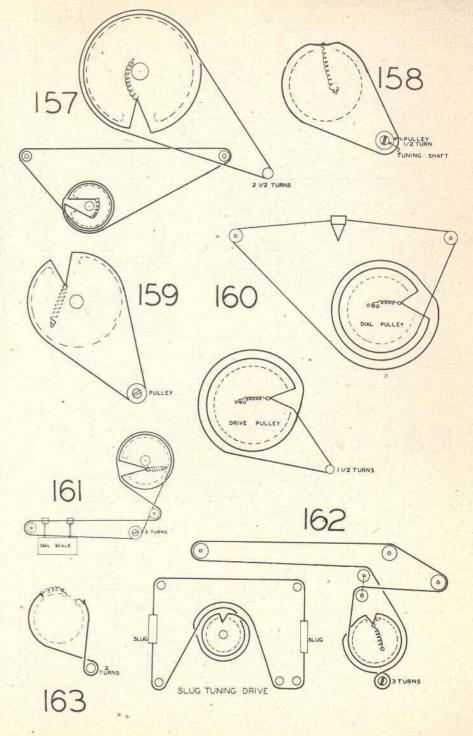
3 TURNS

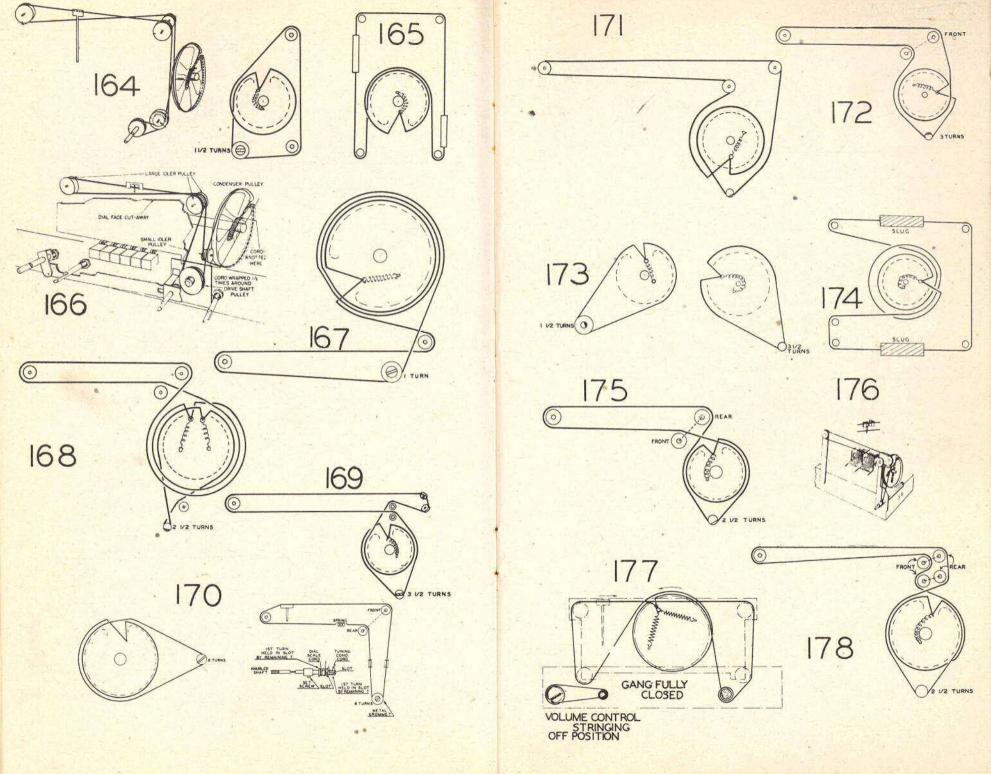
2 1/2 TURNS

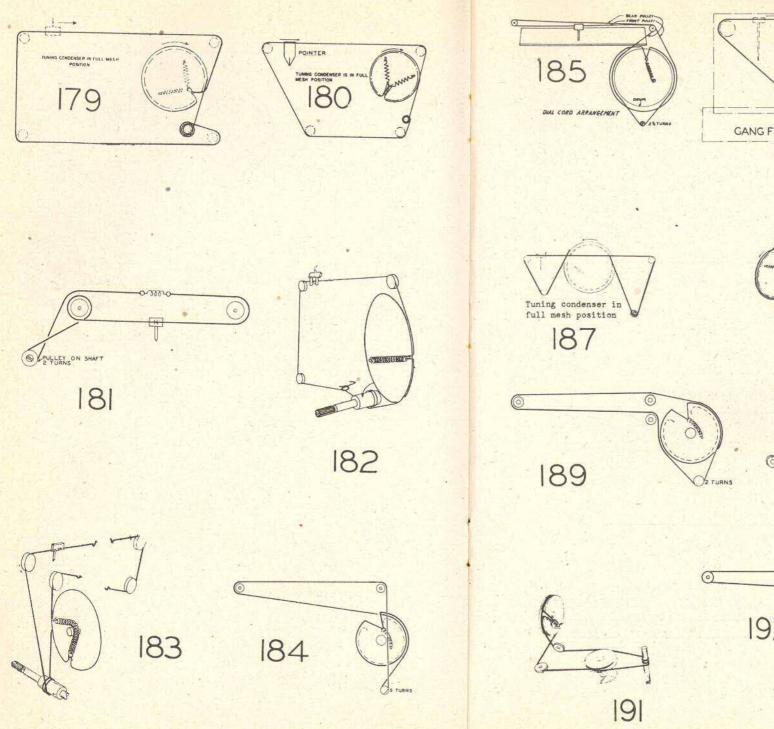


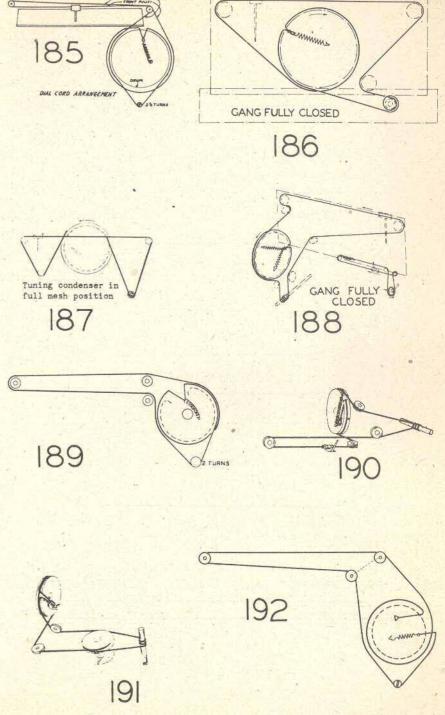


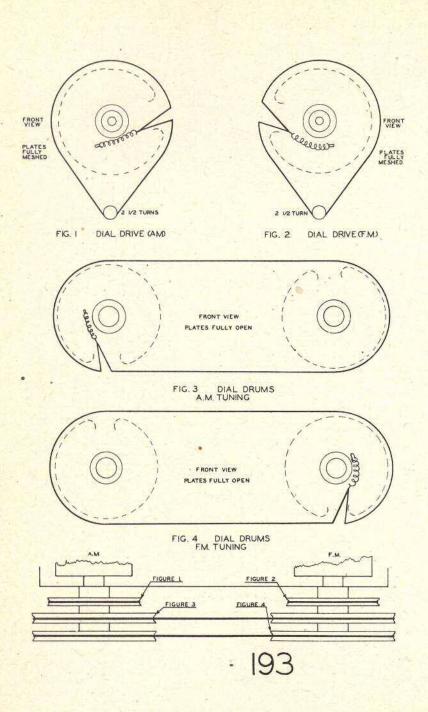


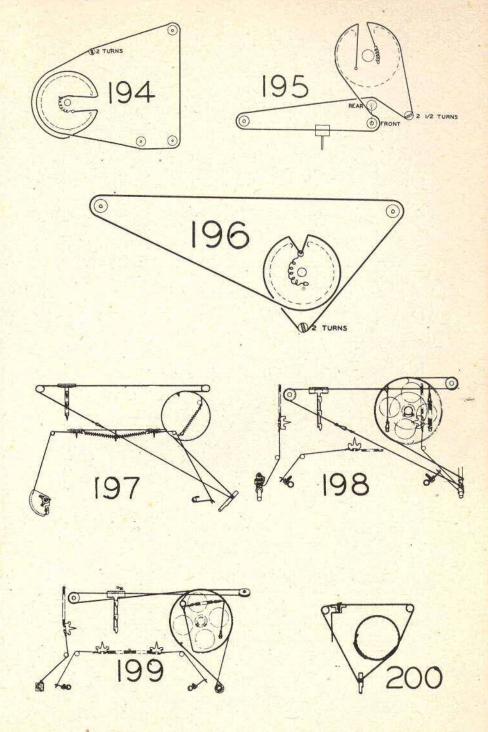


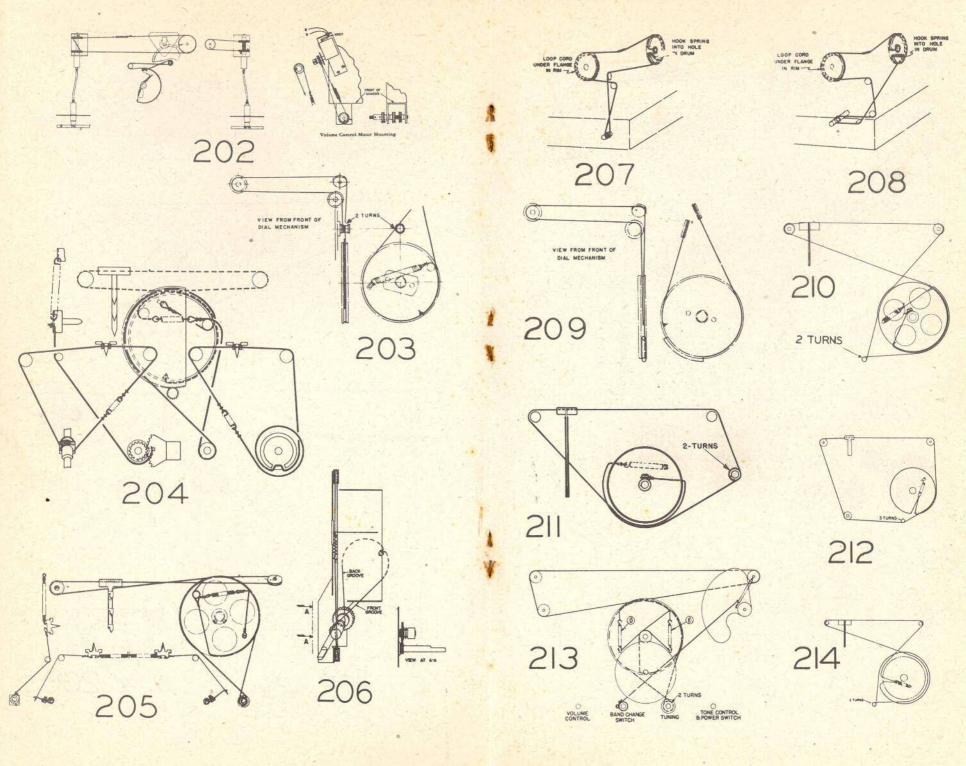


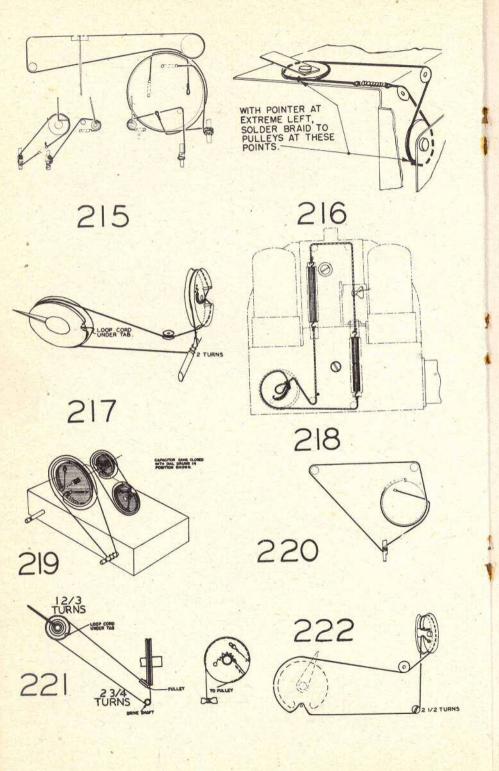


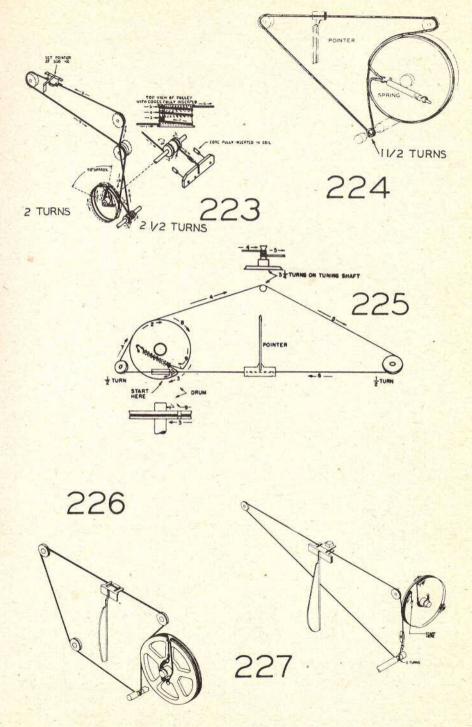


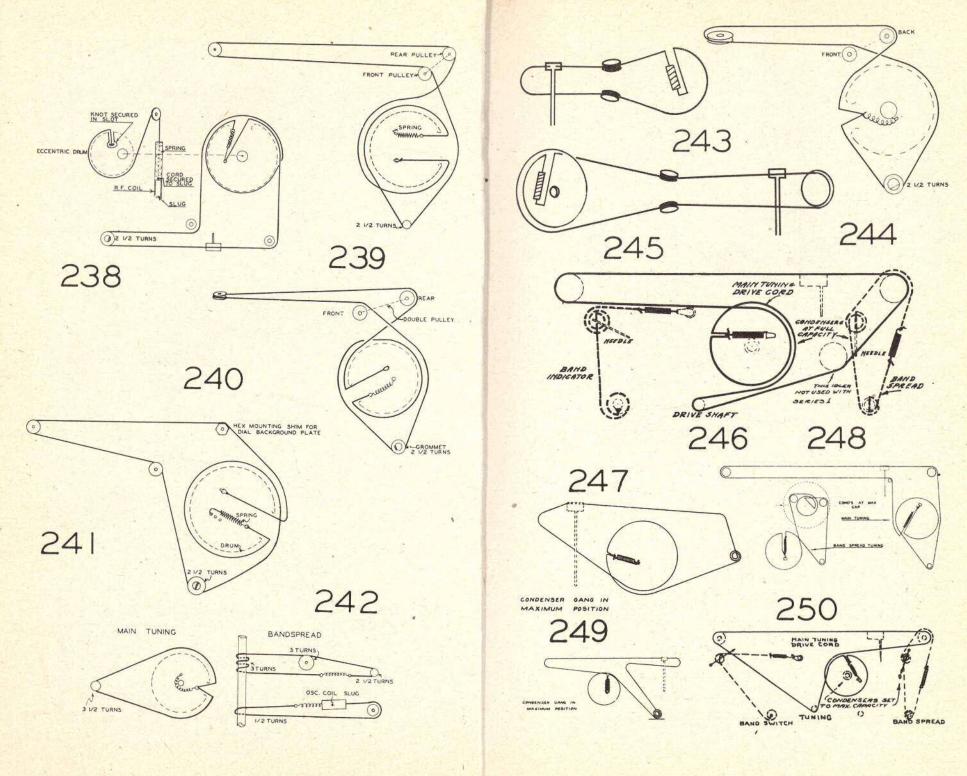


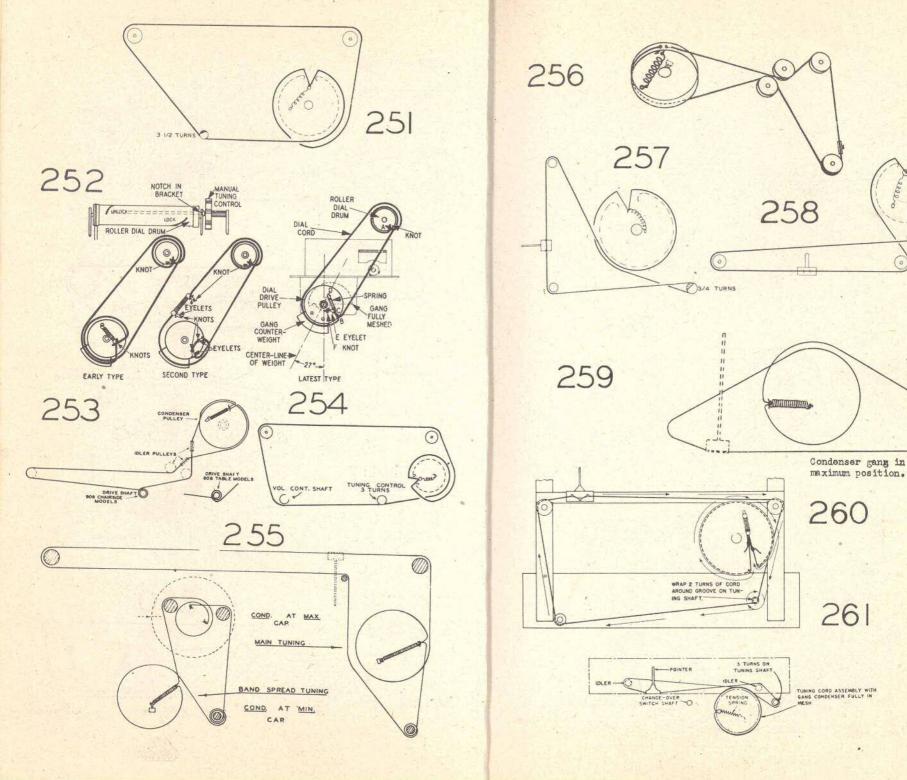


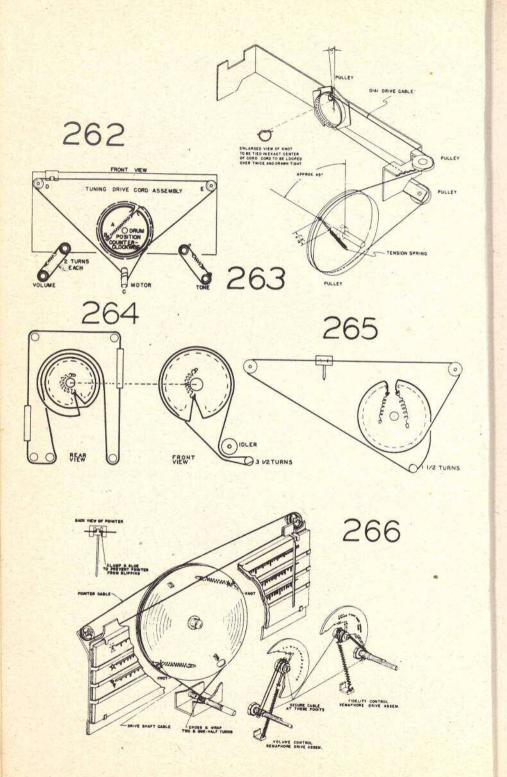


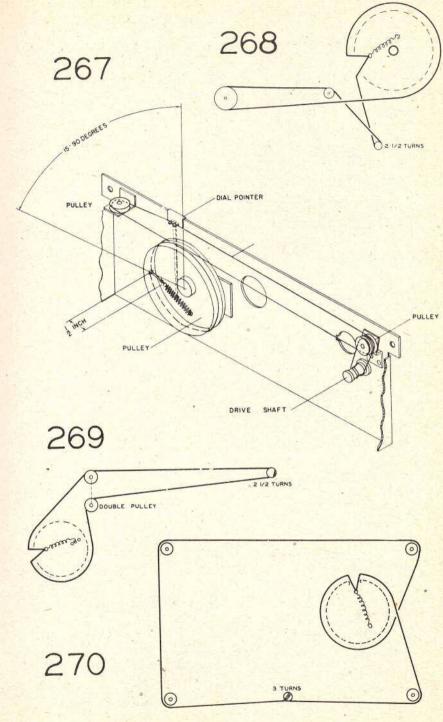


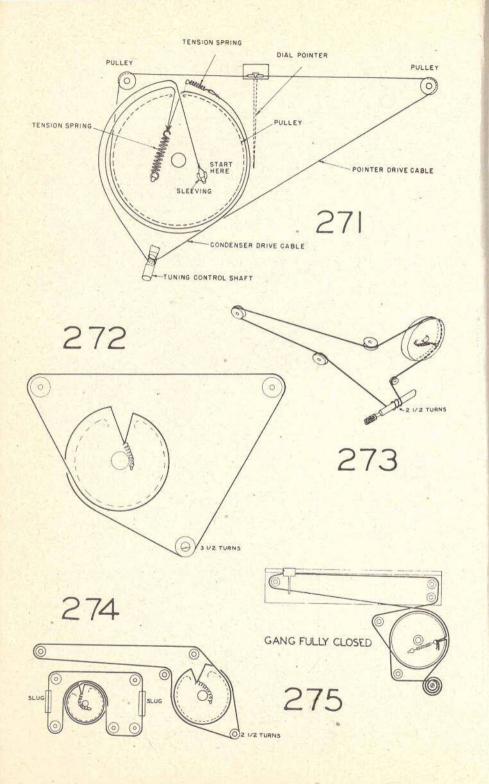


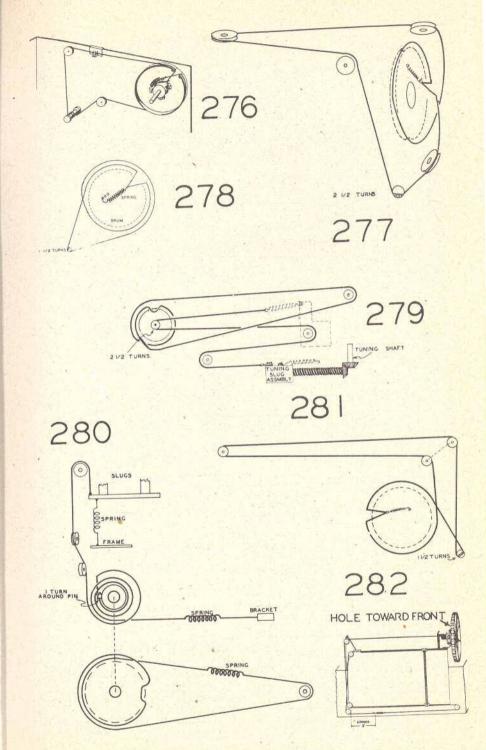


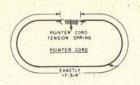


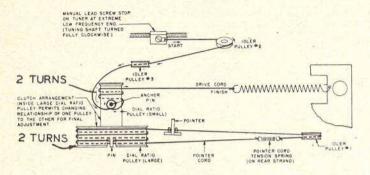




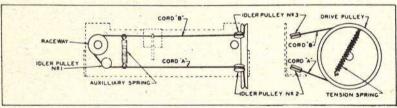


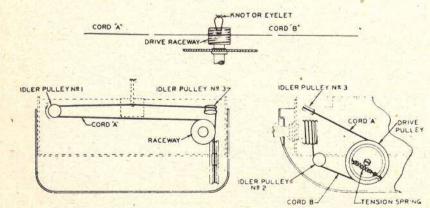


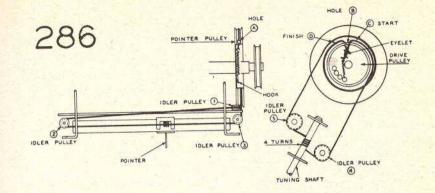


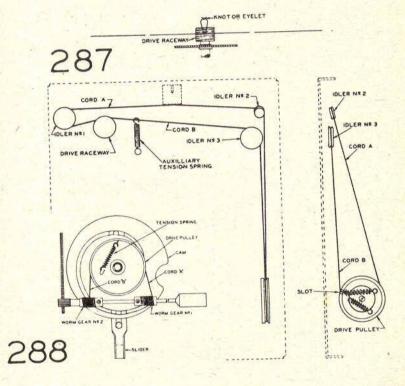


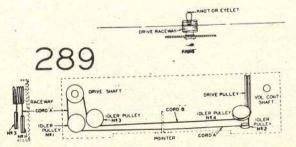




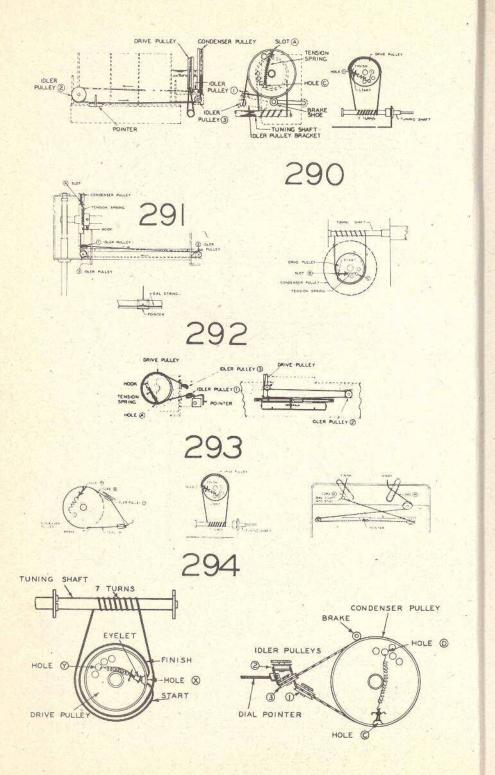


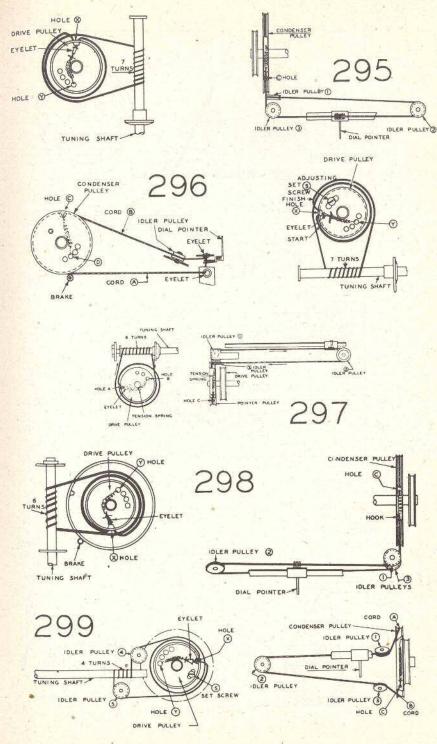


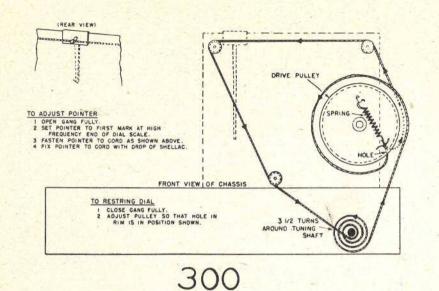


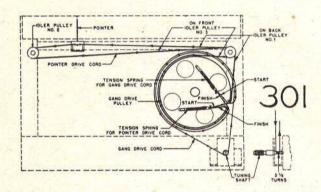


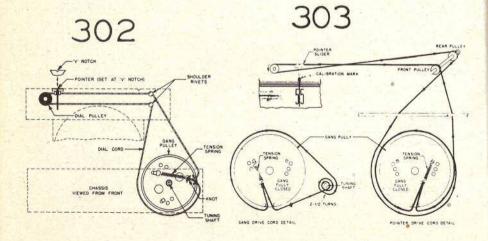


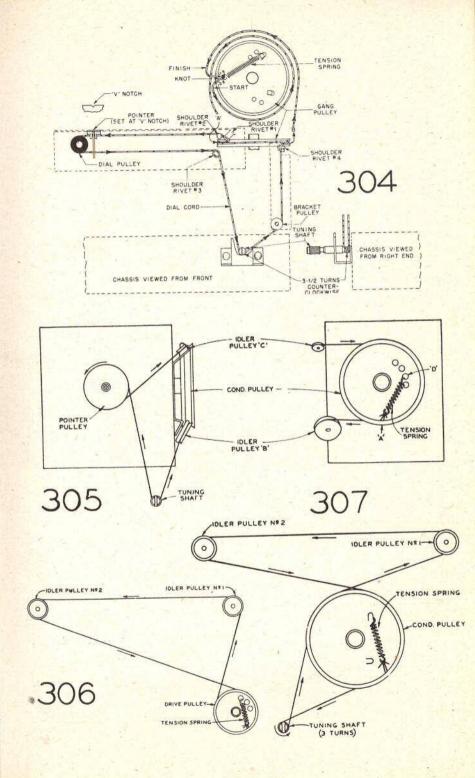


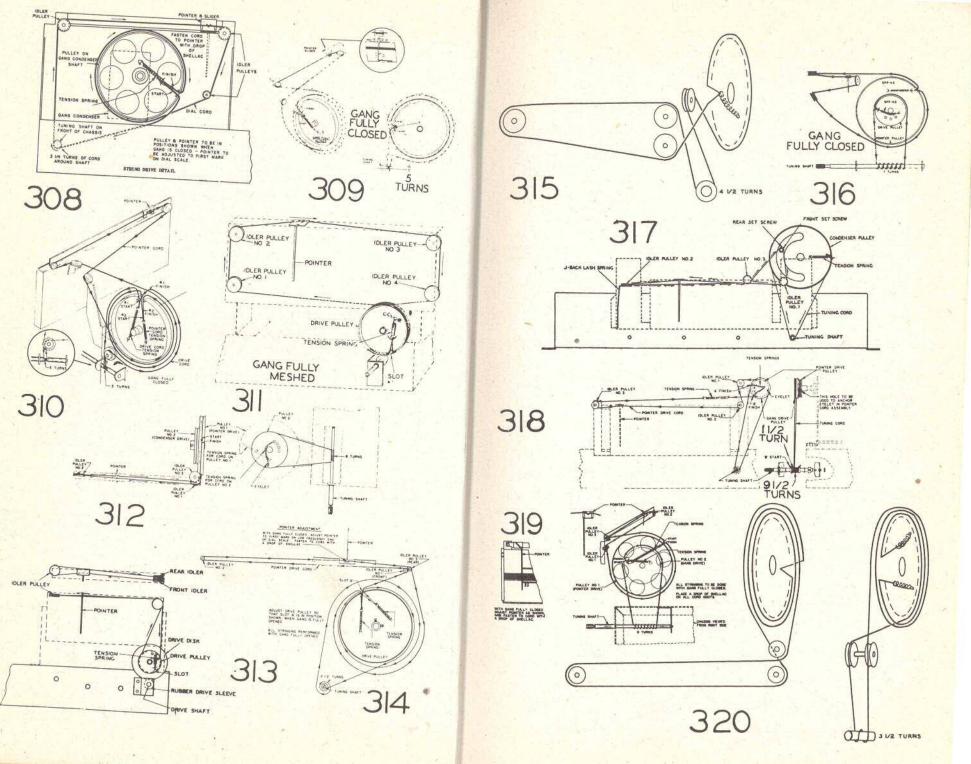


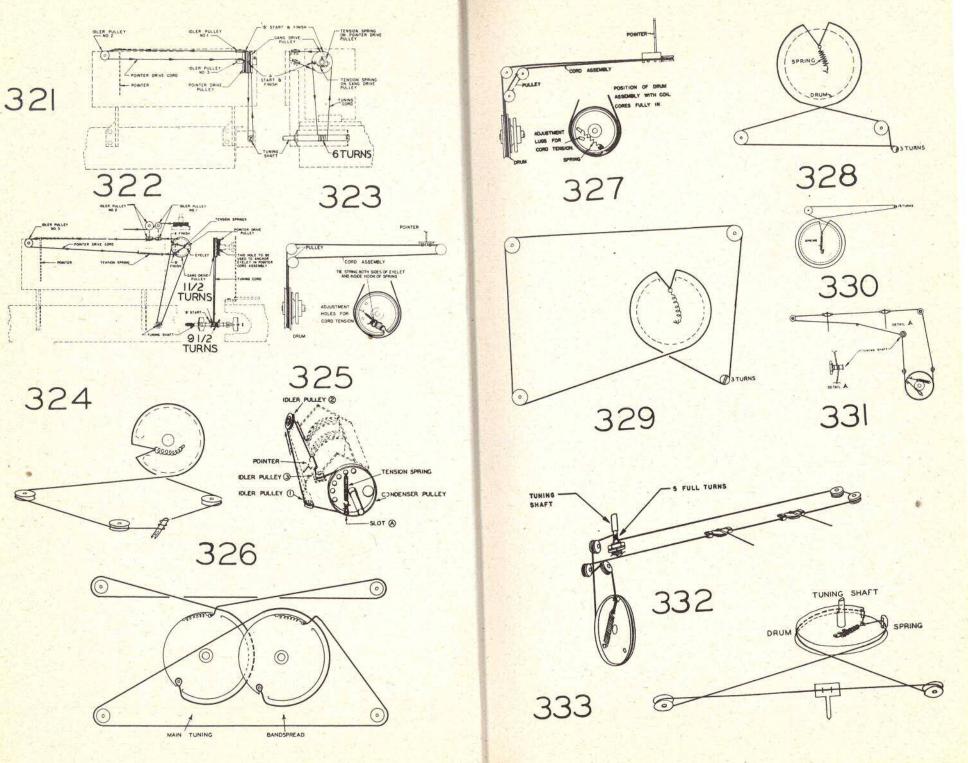


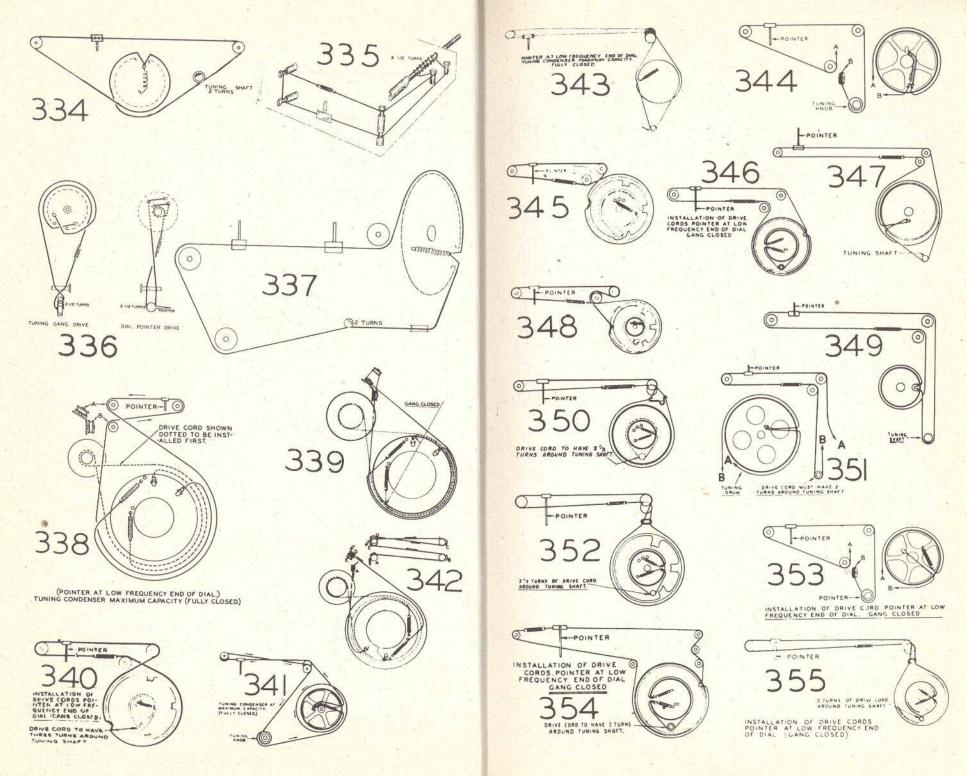


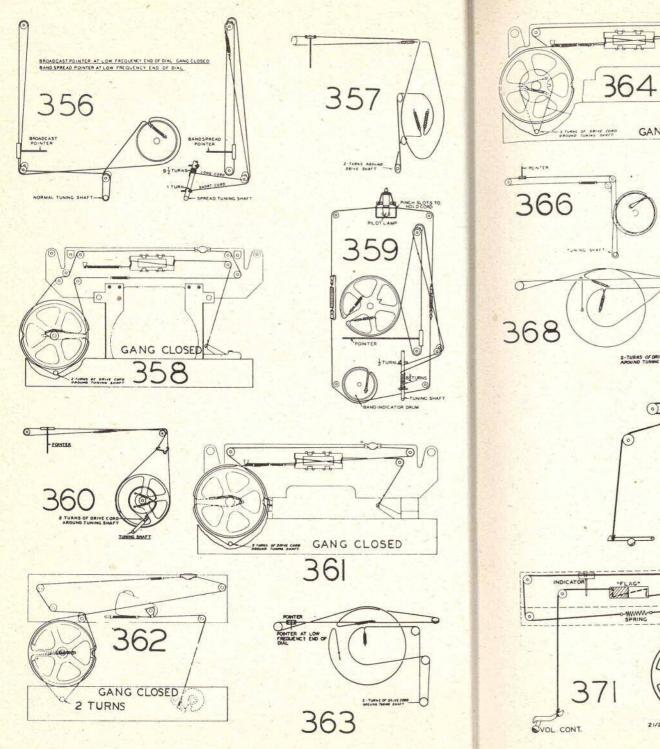


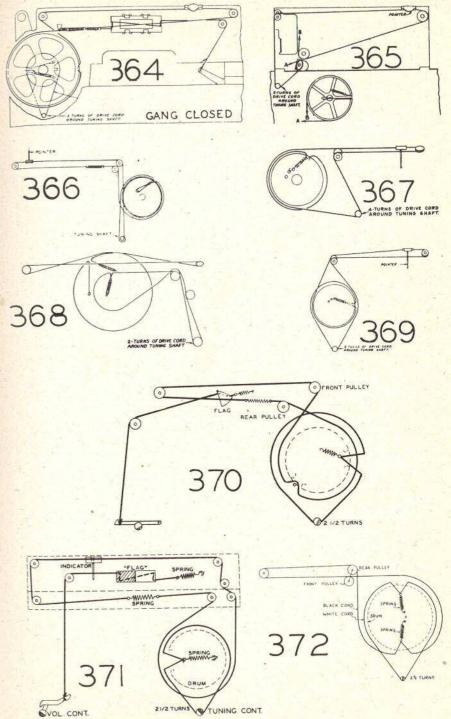


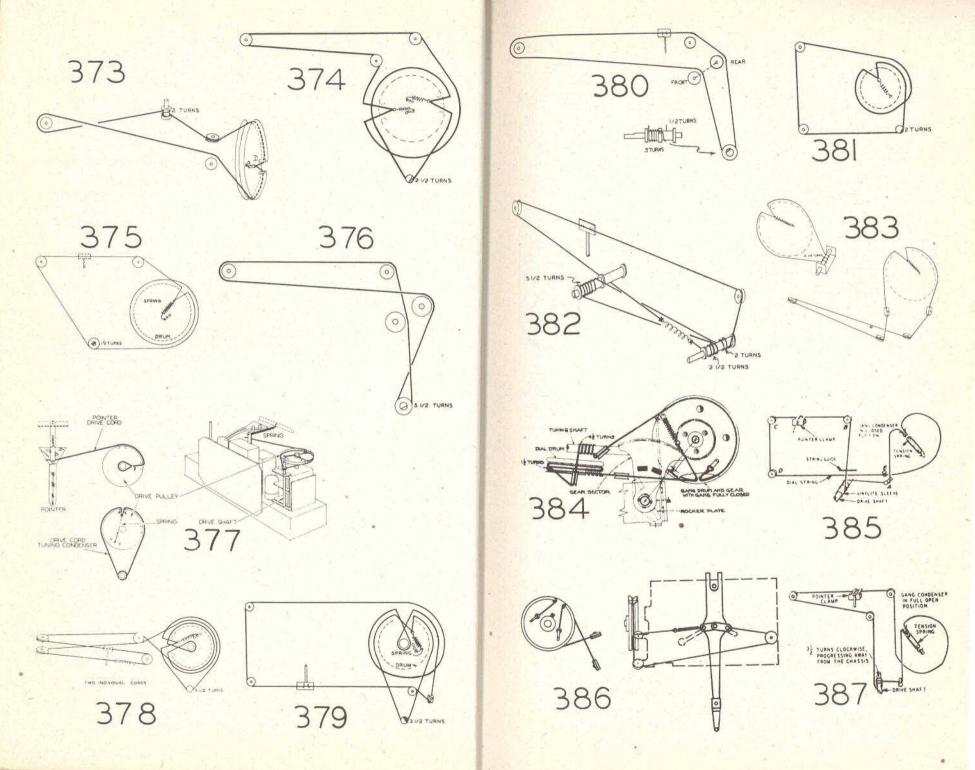


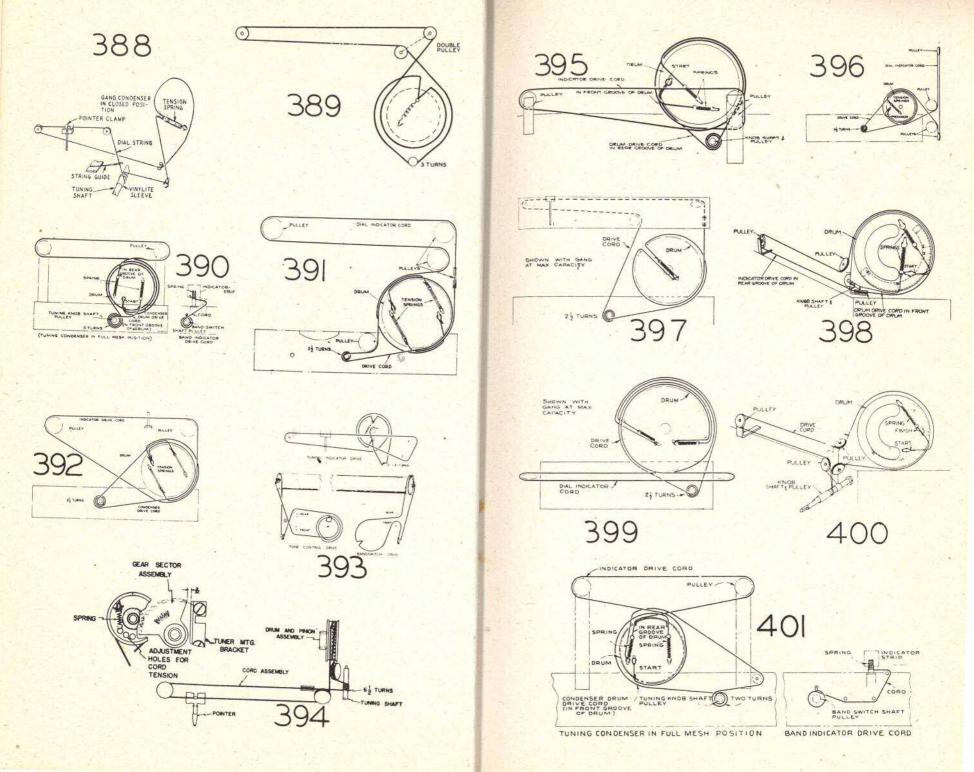


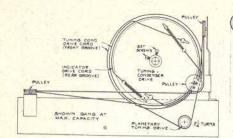


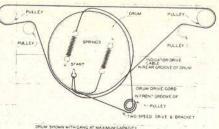


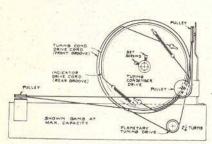


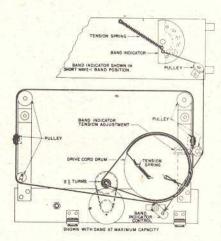






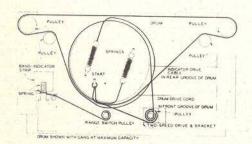




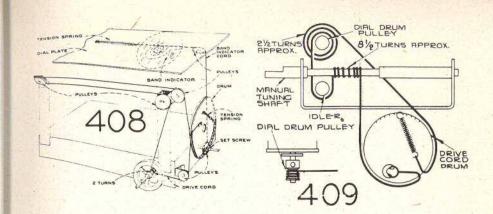


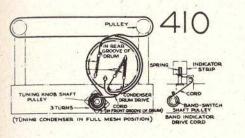
405

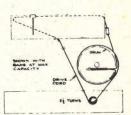


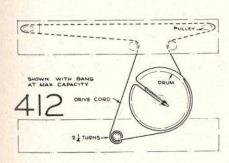


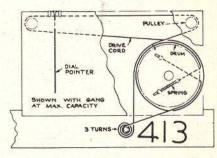
SHOWN WITH BANG DRIVE STURNS



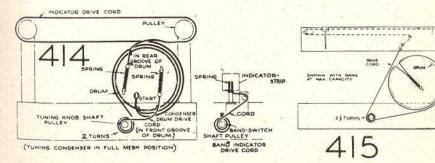


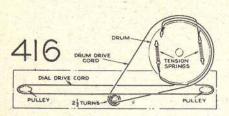


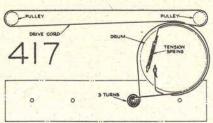


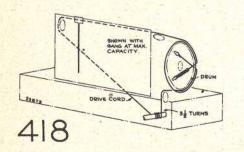


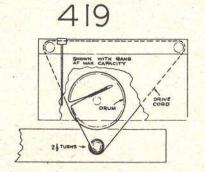
2 TURNS - Q

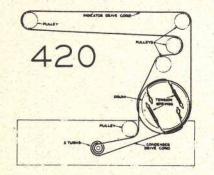


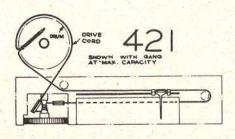


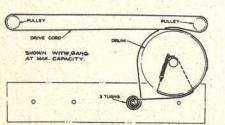


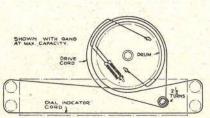


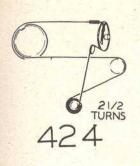


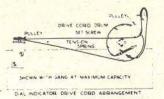


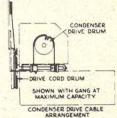


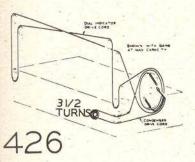


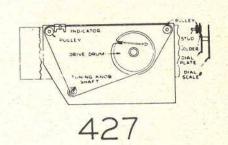


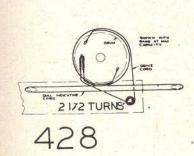


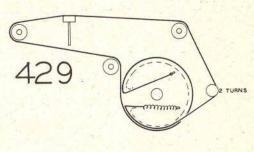


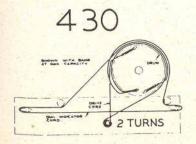


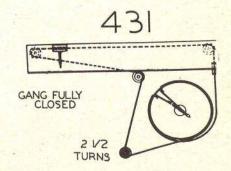


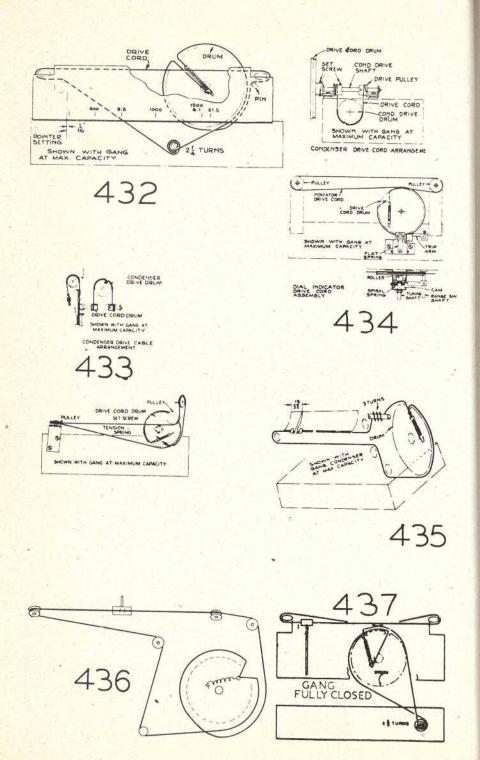


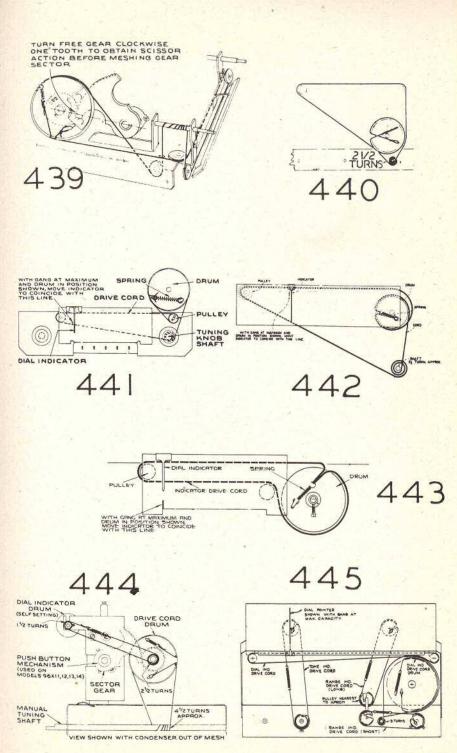


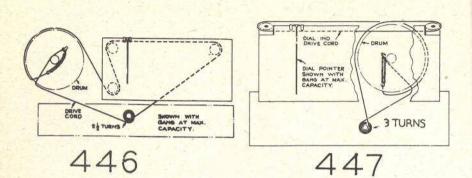


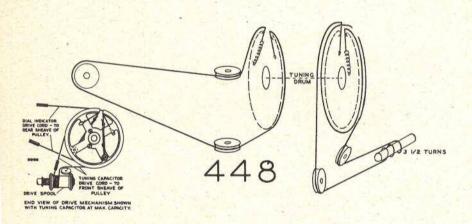


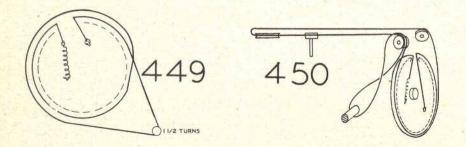


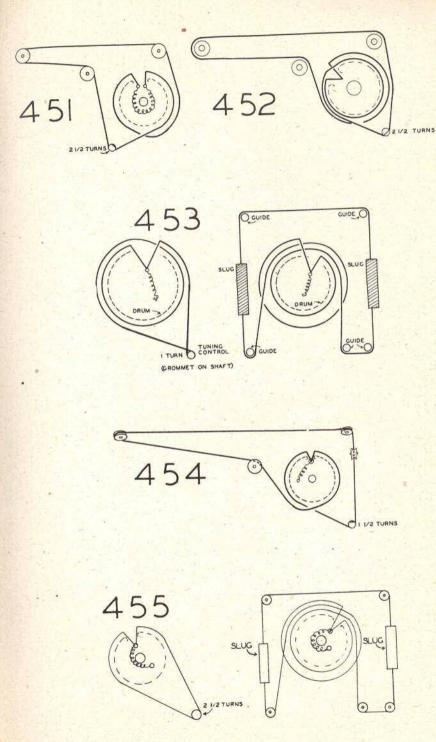


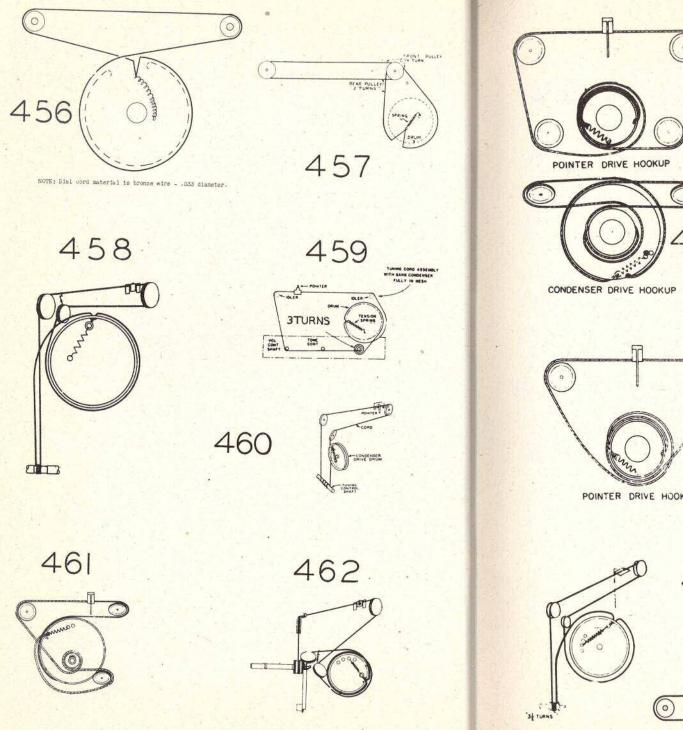


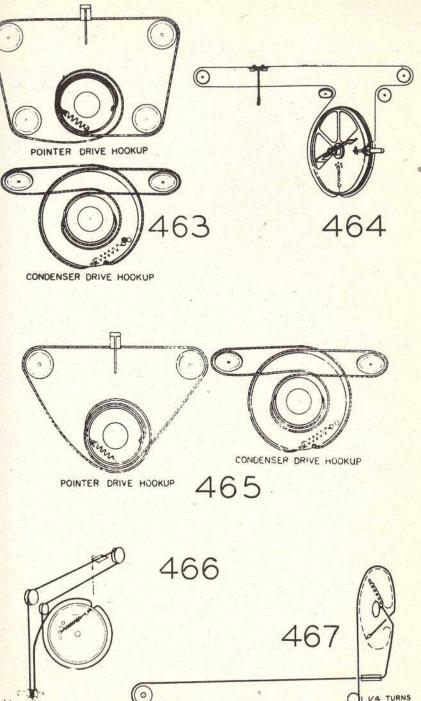


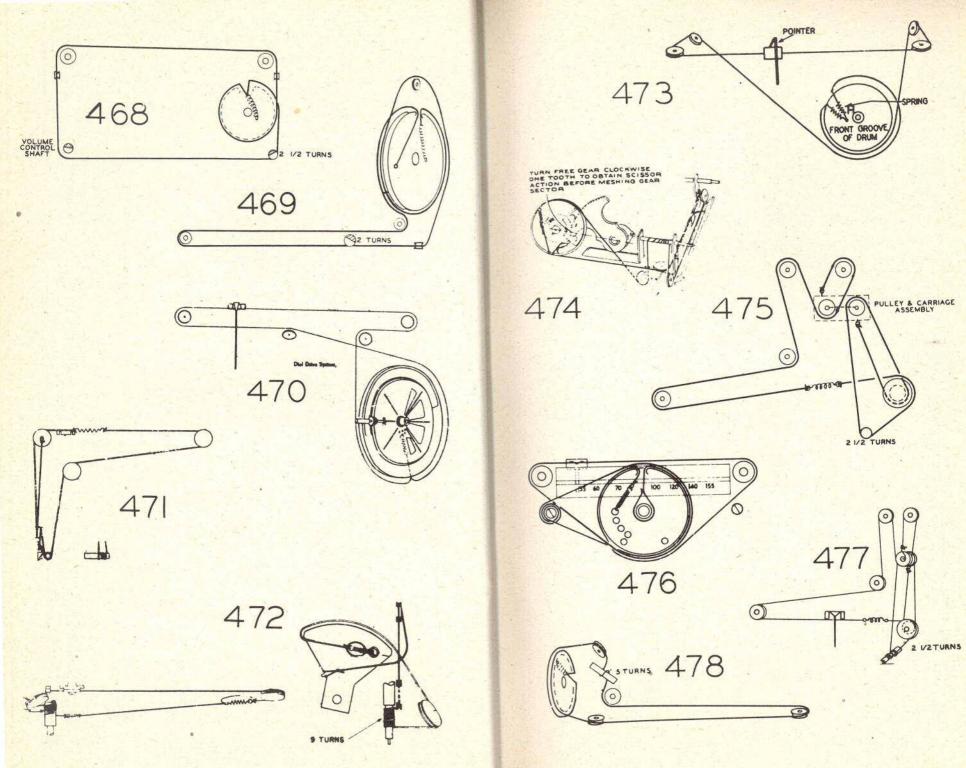


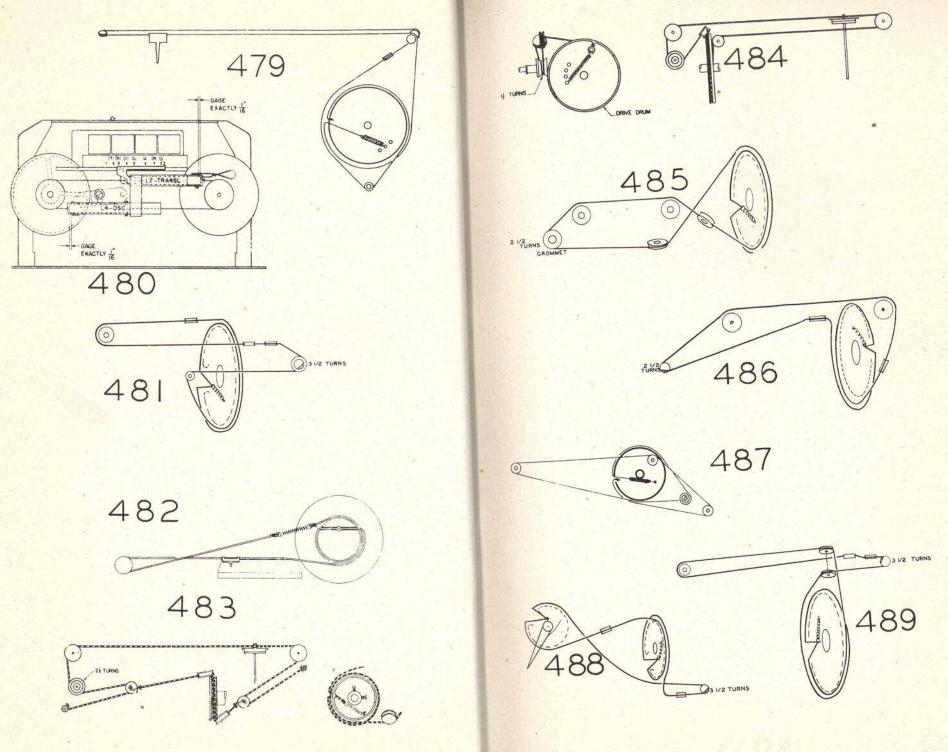


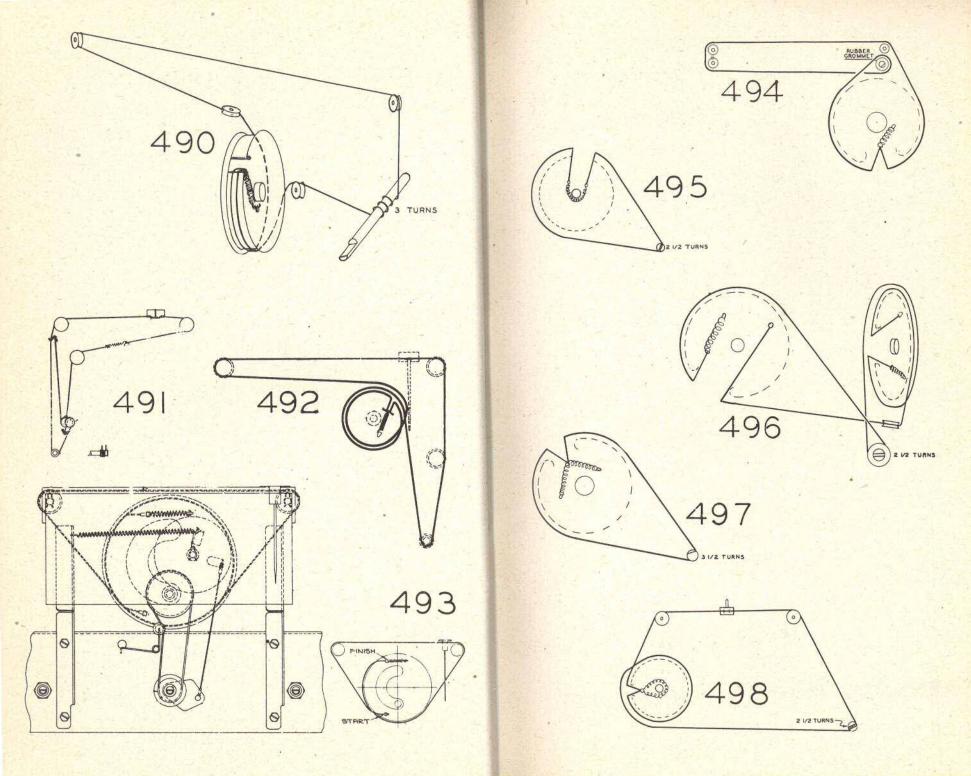


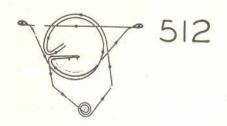


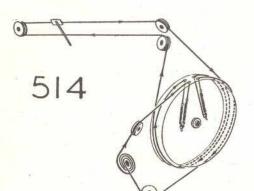


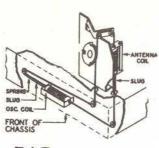




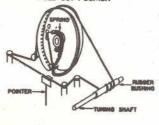


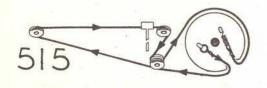






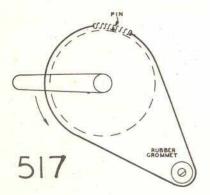
513
DRUM SHOWN WITH SLUGS IN FULL OUT POSITION

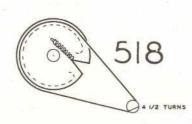


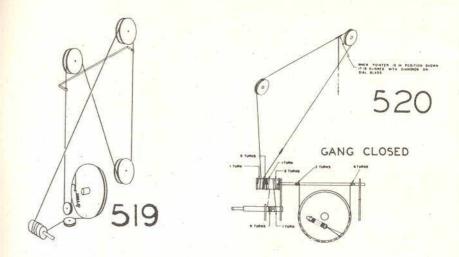


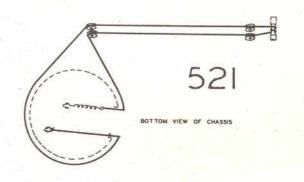


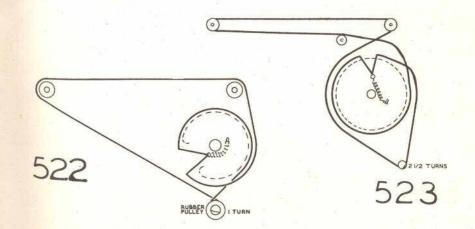
516

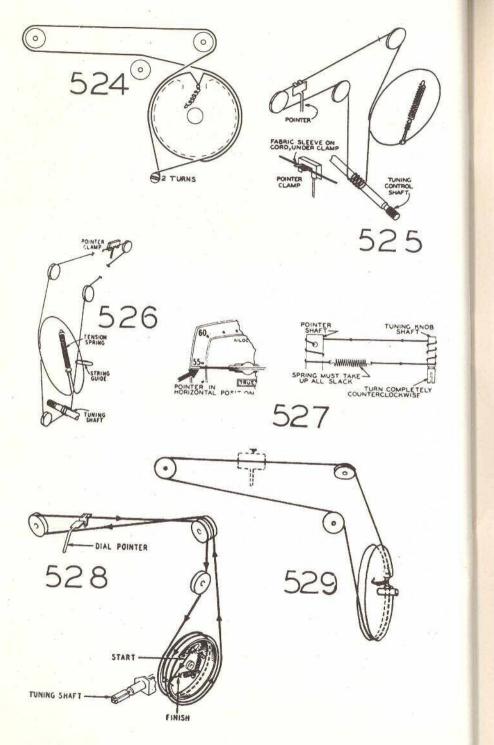


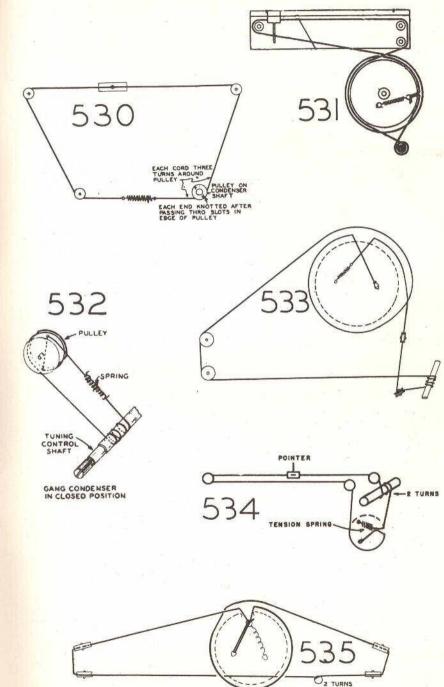


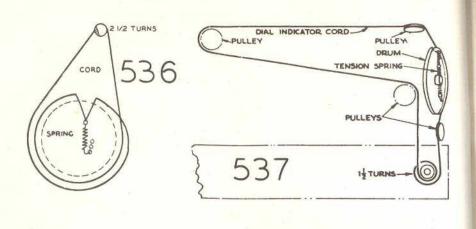


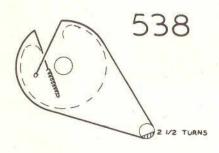


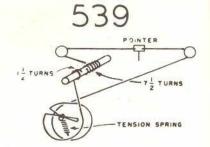






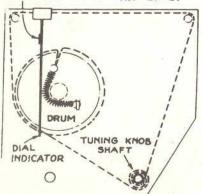






540

WITH CONDENSERS FULLY MESHED, AND DRUM IN POSITION SHOWN, INDICATOR SHOULD COINSIDE WITH THIS LINE.



PULLEY

DIAL INDICATOR

INDICATOR

DRUM SHOWN WITH GANG AT MAXIMUM CAPACITY

DRUM SHOWN WITH GANG AT MAXIMUM CAPACITY

003 542 2 V2 TURNS 543 GANG MESHED DIAL AT 540 K.C. DRUM SIN2 TURNS 545 546 548

