

ELECTRONIC INDUSTRIES LTD, BULLETIN: SR/SS-1.

CAR RADIO DIVISION

File: Receivers Auto

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

Date: 21-10-55.

SERVICE BULLETIN

Page: 1.

MODELS "SR" AND "SS"

6-VALVE SUPERHETERODYNE CAR RADIO RECEIVERS

FOR OPERATION FROM:

Model ''SR'' 6-volt Accumulator Model ''SS'' 12-volt Accumulator

TUNING RANGE:

535-1610 Kilocycles 560.7-186.3 Metres

BATTERY CONSUMPTION: Manual Tuning.

Model ''SR'' 6 Amps does not include dial or indicator lamps. Model ''SS'' 3.25 Amps

BATTERY CONSUMPTION: Selectomatic Tuning.

Model ''SR'' 21 Amps) does not include dial or indicator lamps. Model ''SS'' 9.25 Amps

Note: The 21 amps drawn by the Model ''SR'' consists of 6 amps for the receiver and 15 amps for the selectomatic tuning unit. The 15 amps is only instantaneous while the foot switch or tuning knob is pressed to operate the tuning unit mechanism.

The 9.25 amps drawn by the Model ''SS'' consists of 3.25 amps for the receiver and 6 amps for the selectomatic tuning unit. The 6 amps is only instantaneous while the foot switch or tuning knob is pressed to operate the tuning unit mechanism.

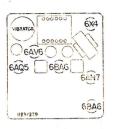
Minimum voltage required to operate the selectomatic mechanism: 6 volt Model ''SR'' - 5.5 volts.

12 volt Model ''SS'' - 11 volts.

Voltage measured between receiver metal can and end of battery lead supplied on receiver, Selectomatic tuning unit operating.

THIS BULLETIN CONTAINS:

- Operation of Selectomatic Tuning Unit.
- Receiver Operating Instructions.
- Alignment Instructions.
- Circuit Diagrams.
- Electrical and Mechanical Parts List.
- Connections for Transformers. Valve Placement Diagram.
- Instructions for Fitting a Foot Switch to the Car for Foot Operation of 8. the Selectomatic Mechanism.
- Circuit Modifications.



ANTENNA COMPENSATING CONDENSER ADJUSTMENT

(after the receiver has been installed in the car):

A control is provided to ensure correct matching of the antenna to the receiver for maximum long-distance reception.

This control is a small knob located on the side of the receiver case near where the antenna lead-in cable enters the receiver.

To adjust the control, extend the antenna to half its fully extended height, then tune the receiver to a barely audible distant station near the centre of the dial.

Slowly turn the small control knob in either direction for maximum volume of the signal.

If a barely audible distant station is not available, adjust the antenna matching control knob for maximum volume of the background noise between two stations near the centre of the dial.

For best results it should be adjusted in a locality free from interference from overhead power lines, etc.

Once the control has been set it should not require readjustment unless the receiver or antenna and lead-in cable have been moved or removed from the vehicle.

OPERATION OF SELECTOMATIC TUNING

The Model SR/SS car radio incorporates a pre-settable station changing principle known as ''Selectomatic'' tuning.

The Selectomatic unit includes a permeability tuner similar to that used in the Model RL/RM, but with the addition of a six-position turret, embodying the pre-set tuning stops, and is powered by a solenoid. One of the turret positions is designated ''Manual tuning'', in which the receiver may be tuned by pulling out the tuning knob and turning it in the normal way. The other five turret positions are for pre-settable stations.

To operate the Selectomatc unit, the push switch contacts are closed by fully depressing the tuning spindle knob or by pressing a foot switch. This connects the solenoid coil across the car battery; the plunger is then drawn into the solenoid coil loading the turret operating mechanism. On releasing the push button the two main springs withdraw the plunger and the core carriage from the solenoid, at the same time completing the action of rotating the turret through one position. The core carriage is brought to a halt against the adjustable screwed stop on the turret.

In each of the six positions of the turret there is a lead screw on which is

mounted a specially shaped nut which forms the stop.

By rotating any of the lead screws the stop is moved up and down the length of This length represents the broadcast tuning range, so that any of the screw. the adjustable stops may be tuned to any frequency on the broadcast band, although, generally, stations are set up in normal sequence as they occur.

On the end of each lead screw is a gear wheel which is intended to engage

with the crown wheel on the tuning shaft.

The manual tuning lead screw is of a coarser pitch and has a larger gear wheel than those attached to the pre-settable lead screws, so that when the manual position is opposite the tuning shaft, the tuning knob may be pulled out until the spindle rides over the indexing spring, whereupon the crown wheel is engaged with the gear wheel on the lead screw and the receiver is tunable in the normal way.

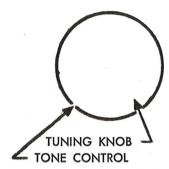
When any of the other five pre-settable positions are opposite the tuning shaft, the tuning shaft must be pulled out against spring tension to engage

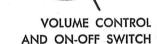
the gears while adjusting the stops for the desired station settings.

When these pre-settable positions are adjusted, the knob is released and the station is tuned, and will remain so throughout all subsequent automatic usage of the receiver until altered at will.

A cam is mounted on the end of the turret shaft and operates a pair of contacts, causing a light to show behind the receiver dial to indicate when the manual position may be engaged with the tuning shaft.

RECEIVER OPERATING INSTRUCTIONS





White light indicates manual→•

■ Red light indicates set-on

TO SWITCH RECEIVER "ON":

Turn clockwise the knob for the combined ''ON/OFF'' switch and volume control. A red indicator light will show at the bottom of the dial, indicating that the receiver is switched ''ON''.

MANUAL TUNING:

A white light at the bottom of the dial indicates that the receiver is in the manual tune position. If the light does not show, press and release the tuning knob several times until the light comes on, then pull the tuning knob out as far as it will go.

Stations may now be tuned in just the same as with an ordinary car radio.

SELECTOMATIC TUNING:

If the manual tuning white indicator light is seen at the bottom of the dial, firmly press the tuning knob fully in until the light goes out and which will automatically set the receiver in the first Selectomatic position.

To change from station to station set by the Selectomatic tuning, press and

immediately release the floor switch on the car floor or the tuning knob.

TO CHANGE A STATION TUNED BY THE SELECTOMATIC:

1. Press and immediately release the tuning knob or the foot switch until the dial pointer indicates and the station to be changed is heard.

2. Pull the tuning knob out as far as it will go and with the knob pulled out

tune in the station required, just the same as with an ordinary car radio. 3. Press the tuning knob firmly and straight in as far as it will go while the station is being received, until the Selectomatic mechanism is heard to click into position.

4. Any of the stations tuned by the Selectomatic mechanism may be changed to different stations by following the above procedure.

Note: Make sure to push the tuning control knob firmly in where it is mentioned in the instructions. Failure to do so may lock the mechanism. pressure on the tuning knob will clear it.

ALIGNMENT INSTRUCTIONS

Equipment:

Signal generator:

Output meter:

Alignment tools: Part No. M195 and PM581. Mica capacitator: 0.01 MF Part No. PC145 for IF. trans. alignment.

Dummy antenna: 65 MMF Part No. M341.

IF. Attenuator: Part No. M174.

This attenuator consists of a 0.004 MF condenser and a 10K. ohm noninductive resistor connected in series and having clips fitted for attaching to the receiver.

Alignment Conditions:

Supply voltage - Model ''SR'' 6 volt accumulator.
Model ''SS'' 12 volt accumulator.

Volume control - maximum volume (fully clockwise).

Output level - 50 Milliwatts.

Load impedance - 5,000 ohms.

Tone control - treble position.

Intermediate frequency - 455 Kc/s.

Do not use a screwdriver or an alignment tool with an iron point for adjusting the variable iron cores. Special tools - Part Nos. M195 and PM581 are available from the factory for alignment purposes.

Oper- ation No.	Generator Connection	Generator Frequency	Dummy Antenna	Instructions
1.				can to align IF. transformers. Peak 2nd IF. trans. pri. and sec.
2.	To control grid of 6BA6 IF. valve (pin No. 1)	455 Kc/s.	cond. in series with generator.	for maximum output.
3.	To control grid of 6AN7 valve (pin No. 2)	455 Kc/s.	0.01 MF Mica cond. in series with generator.	Turn tuning control knob until perm. tuner iron cores are fully out of the windings on the coil formers and the unit is hard against the stop. Peak 1st IF.
				trans. pri. and sec. for maximum output.

- Repeat operations No. 2 and 3. 4.
- Refit top section of metal can during alignment of RF. signal circuits to 5. eliminate variations in oscillator setting.
- Connect attenuator Part No. M174 between 6BA6 IF. valve control grid pin 6. No. 1 and the metal chassis.
- Turn control head tuning knob to bring iron cores fully out of windings and 7. perm. tuner unit against stop. Make sure the centre of the dial pointer aligns with the centre of the end of travel spot on the dial reading at the high frequency end.

8. To antenna 1000 Kc/s. lead-in cable socket

Dummy antenna part No. M341 (65 MMF) in series with generator. Turn control head tuning control knob until centre of dial pointer aligns with centre of alignment spot on receiver dial reading at 1000 Kc/s. Leave the perm. tuner and dial pointer set in this position, then peak oscl. coil trimmer condenser for max. output, then peak RF. trans. trimmer condenser for maximum output and antenna trans. trimmer condenser for maximum output.

- 9. Repeat operation No. 8.
- 10. Remove IF. attenuator and refit bottom section of metal can.
- 11. Tuning range after alignment 535 to 1610 Kc/s.

Note: The iron cores of the perm. tuner are pre-set at the factory to an exact dimension of 1.677" ± .005" between the extreme end of the former protruding through the rubber grommet and the end of the iron core in the former when the unit is turned fully anti-clockwise and is hard against the stop. If incorrect logging and misalignment are to be avoided, no adjustment of the iron cores must be made to vary this dimension. The iron cores must have the same color identification spot on the end of the iron core.

Circu: No.	it Description	Tol. \pm	Rating	Part No.	
	1 MF Metallised paper cond.	-			
1.	(used on Universal 6-volt control head only)	20%	200V. DCW	DUOOR CD	7
	1 MF Paper cond. (used on all		100V. DCW	PC997 SR c	
	6-volt control heads except th	20/0	TOOM DOM	C160 SR o	mry
	6-volt Universal head)	.0			
2.	.5 MF Paper cond.	20%	200V. DCW	PC987	
3.	.25 MF Paper cond.	20%	100V. DCW	PC988 SS o	nlar
4.	.25 MF Paper Cond.	20%	100V. DCW	PC988	III y
5.	.25 MF Paper cond.	20%	100V. DCW	PC988	
6.	.1 MF Paper cond.	20%	400V. DCW	PC989	
7.	.1 MF Paper cond.	20%	400V. DCW	PC989	
8.	.05 MF Paper cond.	20%	400V. DCW	PC990	
9.	.05 MF Paper cond.	20%	200V. DCW	PC991	
10.	.05 MF Paper cond.	20%	200V. DCW	PC991	
11.	.05 MF Paper cond.	20%	200V. DCW	PC991	
12.	.05 MF Paper cond.	20%	200V. DCW	PC991	
13.	.05 MF Paper cond.	20%	200V. DCW	PC991	- 1
14.	.01 MF Paper cond.	20%	400V. DCW	PC992	
15.	.01 MF Paper cond.	20%	400V. DCW	PC992	
16.	.004 MF Paper cond.	20%	600V. DCW	PC969	
17.	.004 MF Paper cond. refer page 14		600V. DCW	PC969	
18.	.002 MF Paper cond.	20%	600V. DCW	PC993	
19.	.008 MF Paper cond.	20%	2000A. DCM	PC840	
20.	.001 MF Silvered mica cond.	5%	500V. DCW	C109	
21.	.00055 MF Silvered mica cond.	5%	500V. DCW	PC999	
22.	.00022 MF Silvered mica cond.	21/2%	500V. DCW	C112	
23.	.0002 MF Silvered mica cond.	10%	500V. DCW	PC995	
24. 25.	.0002 MF Silvered mica cond.	21/2%	500V. DCW	C169	
20.	.0001 MF Silvered mica cond.	10%	500V. DCW	PC994	

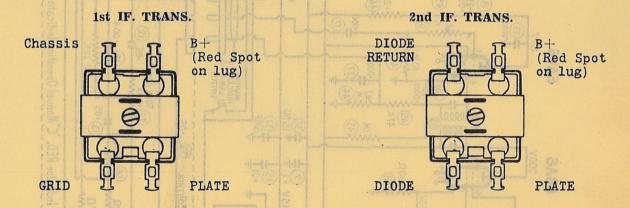
ircui					
0.	Description	Tol. \pm	Rating	Part No.	
26.	.0001 MF Silvered mica cond.	10%	500V. DCW	PC994	
27.	.0001 MF Silvered mica cond.	10%	500V. DCW	PC994	
28.	.0001 MF Silvered mica cond.	10%	500V. DCW	PC994	
29.	.0001 MF Mica cond.	10%	1000 VT	PC571	
30.	50 MMF Ceramicon cond.	5%	500V. DCW	C104	
31.	1000 PF Ceramidisc button cond.	500 PF			
32.	1000 PF Ceramidisc button cond.	500 PF	500V. DCW	C108	SR only
33.	3-30 MMF Trim. cond. wire wound			PC663	
34.	Trimmer cond. (antenna compen-			DOOE 4	
35.	sating) 25 MF Electrolytic cond.	20%	40 PV	PC954	
	16 MF Electrolytic cond.	20%	525 PV	PC996 PC952	
37.	8 MF Electrolytic cond.	20%	525 PV	PC986	
38.	3-55 MMF Trimmer cond.	20/0	020 I V	PC899	
39.	.05 MF Paper cond refer page 14	20%	200V. DCW	PC991	
40.	10 Megohm Carbon resistor	10%	½ W.	R1062	
41.	10 Megohm Carbon resistor	10%	½ W.	R1062	
42.	1.5 Megohm Carbon resistor	10%	½ W.	R1552	
43.	1 Megohm Carbon resistor	10%	½ W.	R1052	
44.	.47 Megohm Carbon resistor	10%	½ W.	R4742	
45.	.47 Megohm Carbon resistor	10%	½ W.	R4742	
46.	.22 Megohm Carbon resistor	10%	1 W.	Z2242	
47.	100,000 Ohm Carbon resistor	10%	½ W.	R1042	
48.	47,000 Ohm Carbon resistor	10%	½ W.	R4732	
49.	47,000 Ohm Carbon resistor	10%	½ W.	R4732	
50.	47,000 Ohm Carbon resistor	10%	½ W.	R4732	
51.	47,000 Ohm Carbon resistor	10%	½ W.	R4732	
52.	33,000 Ohm Carbon resistor	10%	1 W.	Z3332	
53.	22,000 Ohm Carbon resistor	10%	$\frac{1}{2}$ W.	R2232	
54.	11,000 Ohm Carbon resistor 3W.				
	consists of three 33,000 0hm				
	l watt resistors ± 10% Part	•			
EE	No. Z3332 wired in parallel	3.0%	3 177		
55.	10,000 Ohm Carbon resistor	10%	1 W.	Z1032	
56.	2,200 Ohm Carbon resistor	10%	½ W.	R2222	
57.	1,500 Ohm Carbon resistor 2 watt	•			
	consists of a 2,700 Ohm resistor \pm 10% 1W. Part No.				
	Z2722 and a 3,300 0hm resistor				
	\pm 10% 1W. Part No. Z3322	•			
	wired in parallel				
58.	390 Ohm Carbon resistor	10%	1/ 18/	D7010	
59.	270 Ohm Carbon resistor	10%	½ W. ½ W.	R3912	
60.	270 Ohm Carbon resistor	10%	½ W.	R2712	
61.	270 Ohm Carbon resistor	10%	1 W.	R2712	
62.	100 Ohm wire wound resistor	10%	1 W.	Z2712 PR519	gg only
63.	40 Ohm wire wound resistor	10%	3 W.	PR625	SS only SS only
64.	47 Ohm wire wound resistor	10%	½ W.	PR853	35 OHLY
65.	39 Ohm wire wound resistor	10%	1 W.	PR852	SS only
66.	22 Ohm wire wound resistor	10%	½ W.	PR733	DD OHLY
67.	20 Ohm wire wound resistor	10%	î W.	PR674	SR only
68.	20 Ohm wire wound resistor	10%	½ W.	PR231	Jan Ollay
69.	4.7 Ohm wire wound resistor	10%	½ W.	PR858	
70.	4.7 Ohm wire wound resistor	10%	î W.	PR859	

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100,000 Ohm Carbon potentiometer. Part number is different for
71.
         different shaft lengths:-
                                                                 PR836
             Ford BN
             Rover 75 & 90
                                                                 PR699
             Pontiac
                                                                 PR839
                                                                 PR843
             Vauxhall 5E
             Holden 6-volt
                                                                 PR841
             Holden 12-volt
                                                                 PR839
             Plymouth, Dodge, De Soto
                                                                 PR850
             Ford-Astor & Air Chief-Universal receiver
                                                                 PR847
                                                                 PR839
             Chevrolet
                                                                 PR843
             Jaguar Mk. VII
     (refer page 14)
72.
     .5 Megohm Carbon potentiometer tapped at 40K. ohms DP.ST switch
         attached
         Part No. is different for different shaft lengths:-
                                                                 PR667
             Ford BN
             Rover 75 and 90
                                                                 PR857
                                                                 PR845
             Pontiac
                                                                 PR842
           Vauxhall 5E
             Holden 6-volt
                                                                 PR840
             Holden 12-volt
                                                                 PR845
             Plymouth, Dodge, DeSoto
                                                                 PR849
             Ford-Astor and Airchief Universal receiver
                                                                 PR845
             Chevrolet 10-19
                                                                 PR842
             Jaguar Mk. VII
     1.2 Megohm Carbon potentiometer tapped at 40K. ohms DP.ST switch
        attached
         Part No. is different for different shaft lengths:-
             Ford BN
                                                                 PR905
                                                                 PR906
             Royer 75 and 90
                                                                 PR903
             Pontiac
                                                                 PR902
            Vauxhall 5E
             Holden 6-volt
                                                                 PR901
           Holden 12-volt
                                                                PR903
             Plymouth, Dodge, DeSoto
                                                                 PR910
             Ford-Astor and Airchief Universal receiver
                                                                 PR904
             Chevrolet 10-19
Jaguar Mk. VII
                                                                 PR903
                                                                 PR902
73.
                                                                 L190
74.
     Vibrator transformer 6-volt 150 cycle
                                                                 PT232
                                                                          SR only
75.
     Vibrator transformer 12-volt 150 cycle
                                                                 PT182
                                                                          SS only
76.
     Choke - layer wound
Choke - spiral wound
                                                                 L137
77.
                                                                 PT439
78.
                                                                 PT439
     Choke - spiral wound
                                                                          SS only
79.
                                                                 L138
                                                                          SR only
80.
     Choke - spiral wound
                                  a i owner yeiv
     Iron cored choke
                                                                 PT796
81.
     Choke - spark filter
Speaker input trans. 5,000 - 3.5 0 hms imped.
                                                                 L130
82.
83.
         code No. KBG112
                                                                 PT871
84.
     IF. Transformer 455 Kc/s.
                                                                 PT872
     IF. Transformer 455 Kc/s.
85.
                                                                 PT872
     6-volt non-sync. vibrator 150 cycle 4-pin
86.
         (6-pin spacing)
                                                                 M337
                                                                          SR only
87.
     12-volt non-sync. vibrator 150 cycle 4-pin
         (6-pin spacing)
                                                                 M338
                                                                          SS only
     Lamp 6V. .15A. min. bay. base (G3½ bulb)
Lamp 12V. 2.2W. 0.182A. min. bay. base (G3½ bulb)
88.
                                                                 PM220
                                                                          SR only
                                                                 M370
                                                                          SS only
89.
     On/Off switch - part of volume control circuit No. 72
90.
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Speaker - 5" permag. type 5C
6" permag. type 6H
6" permag. type 6L
   91.
                                                                           K196
                                                                         K138
                                                                           K176
                    6x9 oval permag. type 6x9L
                                                                           K158
   92.
         6-pin oblong plug
                                                                           A102/366
   93.
         6-pin oblong socket
                                                                           A101/366
   94.
         15 amp fuse
   95.
                                                                           PM219
                                                                                   SS only
         30 amp fuse
        Foot switch (interim type) complete less lead
                                                                           M385
                                                                                    SR only
             Switch - less base plate and mount screws
                                                                           M391
                                                                           M390
             Base plate
                                                                           309/81
             Connecting lead 3 ft. Connecting lead 4 ft.
                                                                           PA506
            Screw (2) \frac{3}{8}" \times \frac{1}{8}" Csk. hd. Washer (2) \frac{1}{8}" int. S/P. Nut (2) \frac{1}{8}" Whit.
                                                                          PA507
                                                                           11/560-6
                                                                           1/562-4
        Foot switch (final type) complete with rubber cover cap
                                                                          3/478-2
             (1/391) less lead and mount screw
            Mount screw 11/2" x No. 10 Bdr. hd. self-tapping
                                                                          M395
                                                                          35/560-32
            Connecting lead 3 ft. Connecting lead 4 ft.
                                                                          PA512
        Solenoid 6-volt (part of tuning unit)
Solenoid 12-volt (part of tuning unit)
                                                                          PA513
                                                                          L122
  98.
                                                                                    SR only
        Selectomatic tuning unit 6-volt
                                                                          L123
  99.
                                                                                    SS only
                                                                          L133
                                                                                   SR only
 100.
        Selectomatic tuning unit 12-volt
                                                                          L134
                                                                                   SS only
 101.
        Antenna coil - less iron core
       Antenna coil iron core (blue spot)
Antenna coil iron core (brown spot)
                                                                          L135
                                                                          11/766-2
                                                                          11/766-3
11/766-1
       Antenna coil iron core (white spot)
 102.
       RF. coil - less iron core
                                                                          L135
       RF. coil iron core (blue spot)
                                                                          11/766-2
       RF. coil iron core (brown spot)
       RF. coil iron core (white spot)
                                                                          11/766-3
                                                                          11/766-1
       Osc. coil - less iron core
103.
                                                                          L136
       Osc. coil iron core (blue spot)
                                                                          11/766-2
       Osc. coil iron core (brown spot)
                                                                          11/766-3
       Osc. coil iron core (white spot)
                                                                          11/766-1
Knob - antenna matching control on side of receiver case
                                                                         269/81
Vibrator Socket - 6-pin
Valve Socket - 7-pin
                                                                         PM146
Valve Socket - 9-pin
                                                                         A104/58
Valve Shield 6AN7
                                                                         279/250
                                                                          64/635
Vibrator Earth Clip
Clip for mounting IF. trans.
                                                                         42/98
                                                                         7/670
Speaker Socket - 2-pin
Speaker Plug - 2-pin - refer page 14
                                                                         364/250
Press Stud - earth lead - speaker - refer page 14
                                                                         336/300
                                                                         267/250
Fuse Holder - long section
Fuse Holder - short bayonet section
                                                                         11/245
                                                                         14/245
Fuse Insulator - cardboard tubing
Eyelet and Washer Assy. (2) moulded bakelite - fuse holder
                                                                         15/245
                                                                         17/245
Spring - fuse holder
.5 MF 200V. DCW metal-clad generator armature terminal
                                                                         89/30C-2
    by-pass condenser
.5 MF 200V. DCW metal-clad ignition coil battery terminal
                                                                         PC545
    by-pass condenser
                                                                         PC545-1
Suppressor - 12,500 Ohm screw-in type
                                                                         PR314
A+ Cable 19/.012" T/C wire
Rear Mount Nut for rear mount stud 5/16" Whit.
                                                                         WM15
                                                                         3/478-14
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91.		
	Speaker - 5" permag. type 50 tall and another modes.	K196000,001 .17
	6" permag. type 6H — addigued thede t	K138
	6" permag, type 61	V176
	6x9 oval permag. type 6x9L	VIEO
92.	6-pin oblong plug	VIOO 1200
93.	6-pin oblong socket	A102/366
	6-pin oblong socket	A101/366
94.	15 amp fuse	PM219 SS only
95.	30 amp fuse	M385 SR only
96.	Foot Switch (interim type) complete less lead	M391
	Switch - less base plate and mount screws	M390
	Base plate	300/81
	Connecting lead 3 ft.	PASOS
	Connecting lead 4 ft.	PA507
	Screw (2) 3" y 1" Cab ha	11/5000
	Screw (2) $\frac{3}{8}$ " x $\frac{1}{8}$ " Csk. hd. began decreased and a Washer (2) $\frac{1}{8}$ " int. S/P.	11/200-6
	Washer (2) 6 Int. 5/r.	
	Nut (2) % White field inerellib to inerellib at	3/478-2
	Foot switch (final type) complete with rubber cover cap	Ford
	(1/391) less lead and mount screw 00 box 37 m	M395
	Mount screw 11/2" x No. 10 Bdr. hd. self-tapping	35/560-32
	Connecting lead 3 ft.	PA512
	Connecting lead 3 ft. Connecting lead 4 ft.	PA513
97.	Solenoid 6-volt (part of tuning unit)	L122 SR only
98.	Solenoid 12-volt (part of tuning unit) 10290 . sabod . notes	L123 SS only
99.	Selectomatic tuning unit 6-volt will as Month bas golda-	
100.	Selectomatic tuning unit 12 well	L133 SR only
101.	Selectomatic tuning unit 12-volt Antenna coil - less iron core	L134 SS only
101.	Antonna Coil inch arm (Mine)	L135
	Antenna coil iron core (blue spot)	11/766-2
	Antenna coil iron core (brown spot)	11/766-3
100	Antenna coil iron core (white spot)	11/766-1
102.	RF. coil - less iron core	L135
	RF. coil iron core (blue spot)	11/766-2
	RF. coil iron core (brown spot)	111/766-3
	RF. coil iron core (white snot)	
	THE COLL STORY GOLD (WILL CO SPOU)	11/766-1
103.	Osc. coil - less iron core	11/766-1 L136
103.	Osc. coil - less iron core Osc. coil iron core (blue spot)	11/766-1 L136
103.	Osc. coil - less iron core Osc. coil iron core (blue spot) Osc. coil iron core (brown spot)	11/766-1 L136 11/766-2
103.	RF. coil - less iron core RF. coil iron core (blue spot) RF. coil iron core (brown spot) RF. coil iron core (white spot) Osc. coil - less iron core Osc. coil iron core (blue spot) Osc. coil iron core (brown spot) Osc. coil iron core (brown spot) Osc. coil iron core (white spot)	11/766-1 L136 11/766-2 11/766-3
	and the spot of th	11/700-1
Knob	- antenna matching control on side of receiver case	11/700-1
Knob Vibra	- antenna matching control on side of receiver case tor Socket - 6-pin	269/81
Knob Vibra Valve	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin	269/81 PM146
Knob Vibra Valve	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin	269/81 PM146
Knob Vibra Valve Valve	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin	269/81 PM146
Knob Vibra Valve Valve	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7	269/81 PM146 A104/58 279/250 64/635
Knob Vibra Valve Valve Vibra	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip	269/81 PM146 A104/58 279/250 64/635 42/98
Knob Vibra Valve Valve Vibra Clip	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans.	269/81 PM146 A104/58 279/250 64/635 42/98 7/670
Knob Vibra Valve Valve Vibra Clip Speak	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250
Knob Vibra Valve Valve Vibra Clip Speak Speak	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C
Knob Vibra Valve Valve Vibra Clip Speak Speak Press	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele Sprin	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele Sprin .5 MF	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2
Knob Vibra Valve Valve Vibra Clip Speak Speak Fress Fuse Fuse Eyele Sprin 5 MF	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2
Knob Vibra Valve Valve Vibra Clip Speak Speak Fress Fuse Fuse Eyele Sprin 5 MF	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Fuse Eyele Sprin .5 MF	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser 200V. DCW metal-clad ignition coil battery terminal	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545
Knob Vibra Valve Valve Vibra Clip Speak Speak Fress Fuse Fuse Eyele Sprin .5 MF	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser 200V. DCW metal-clad ignition coil battery terminal y-pass condenser	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545-1 PR314
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele Sprin .5 MF b Supprin	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser 200V. DCW metal-clad ignition coil battery terminal y-pass condenser essor - 12,500 Ohm screw-in type	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545 PC545-1 PR314 WM15
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele Sprin .5 MF b Supprin	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser 200V. DCW metal-clad ignition coil battery terminal y-pass condenser essor - 12,500 Ohm screw-in type	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545-1 PR314 WM15
Knob Vibra Valve Valve Vibra Clip Speak Speak Press Fuse Fuse Eyele Sprin .5 MF b Supprin	- antenna matching control on side of receiver case tor Socket - 6-pin Socket - 7-pin Socket - 9-pin Shield 6AN7 tor Earth Clip for mounting IF. trans. er Socket - 2-pin er Plug - 2-pin - refer page 14 Stud - earth lead - speaker - refer page 14 Holder - long section Holder - short bayonet section Insulator - cardboard tubing t and Washer Assy. (2) moulded bakelite - fuse holder g - fuse holder 200V. DCW metal-clad generator armature terminal y-pass condenser 200V. DCW metal-clad ignition coil battery terminal y-pass condenser essor - 12,500 Ohm screw-in type	269/81 PM146 A104/58 279/250 64/635 42/98 7/670 364/250 336/30C 267/250 11/245 14/245 15/245 17/245 89/30C-2 PC545 PC545-1 PR314 WM15

Rear Mount Stud shakeproof washer 5/16" int. 1/562-13 Indicator Light Button - ''Clear'
Indicator Light Button - ''Red'' 3/386-3 3/386-2 Rubber Sleeve - foot switch connector 43/386 Contact Pin - foot switch connector 23/386 Contact Sleeve - foot switch connector 42/386 Universal Coupling - tuning spindle 53/813 392/250 A123/366-2 Split Pin - tuning spindle Receiver Metal Can - top section - blue duco Receiver Metal Can - top section - silver duco A123/366-1 Receiver Metal Can - bottom section - blue duco A114/321-3 Receiver Metal Can - bottom section - blue duco dunked corner A115/321-2 Receiver Metal Can - bottom section - silver duco A114/321-2 Receiver Metal Can - bottom section - silver duco dunked A115/321-3 corner



ANTENNA COIL

Blue, Red or Green - Chassis White or Yellow - Antenna

RF. COIL

Blue, Red or Green - A.V.C. White or Yellow - Grid

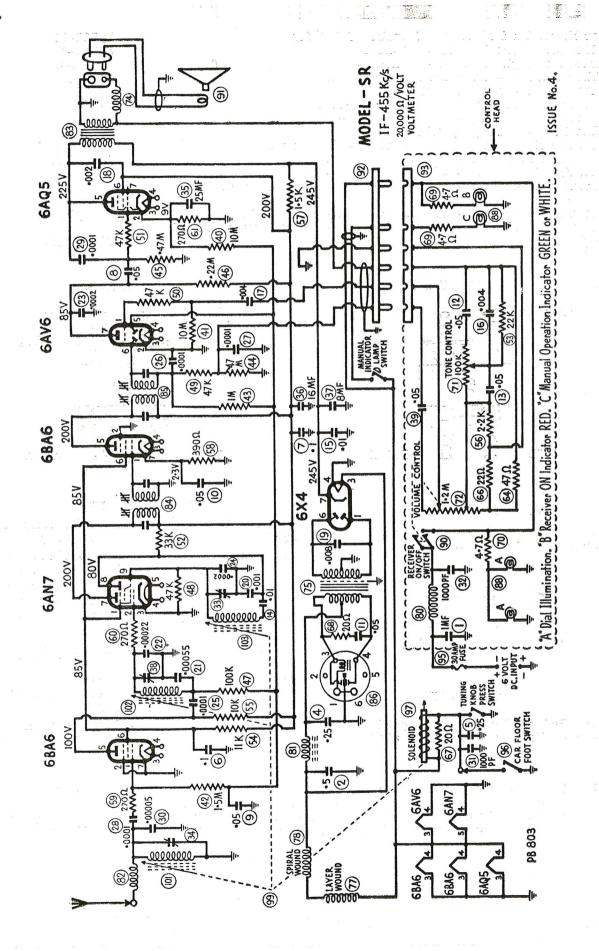
OSCL. COIL

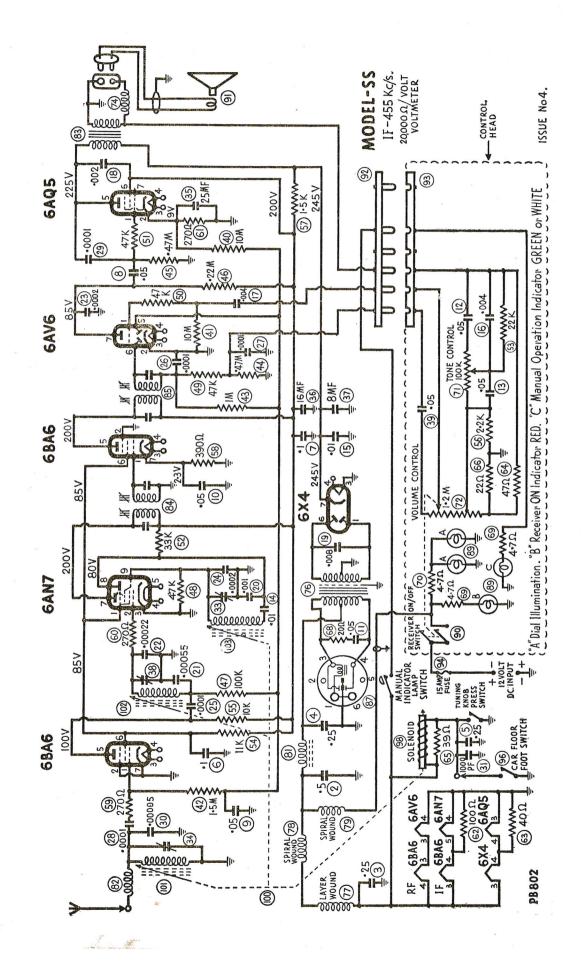
Blue, Red or Green - Osc. grid White or Yellow - Oscl. plate

POWER TRANS.

Pri. start - Red sleeving on 和加州 heavy gauge wire. Pri. centre tap - Green sleeving on heavy gauge wire. Pri. finish - Black sleeving on heavy gauge wire. Elect. Static Shield - Yellow, stranded wire. Sec. start - Red cotton covered stranded lead. - Green cotton Sec. centre tap covered stranded lead. Sec. finish - Black cotton covered stranded lead.

Note: The antenna, RF. and oscl. coil coloured leads are shown above as having a particular coloured lead for connection to a specific point. Either coloured lead may be connected to either of the specified points for the respective coil without any detrimental effect to the receiver.





INSTRUCTIONS FOR FITTING A FOOT SWITCH THE CAR FOR FOOT OPERATION OF THE SELECTOMATIC TUNING

Interim Type Foot Switch:

Hold switch and switch mount base together, then select a mount position on car floor or lower section of car firewall. The switch mount position is to be such that when the foot of the car driver is operating the switch, it is clear of the control pedals of the vehicle.

2. Place switch on mount base at selected position and, using the two large mount screw holes in the switch and mount base as a template, mark and

drill two 9/64" dia. holes through the car trim and car body.

Connect plug on end of long flexible lead supplied with receiver to the connector attached to short lead protruding from side of receiver metal base near where the receiver serial number is stamped. Make sure that 3. metal sections of connector are fully covered by the rubber sleeve.

4. Feed long flexible lead to the selected switch position. Cut lead to length, and remove approx. $\frac{1}{4}$ " of covering from end of lead. Attach spade lug supplied with receiver to the bared wire, then solder the leadlug connection.

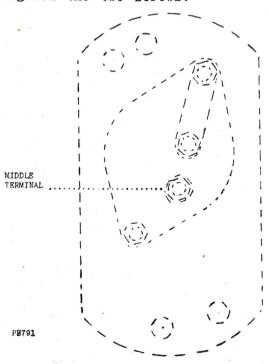
5. Loosen the middle terminal nut on the switch, refer diagram.

6. Feed lead through large opening in the switch mount base.

Slide spade lug under the shakeproof washer of the switch middle terminal, 7. then securely tighten the nut. 8.

Place switch at the selected position and make sure that the lead passes through lead entry arch at side of mount base.

Insert a 1½" x No. 10 self-tapping screw through each of the two holes in 9. switch, switch mount base, car trim covering, and 9/64" dia. holes in car body. Securely tighten the two screws.



FOOT SWITCH VIEWED FROM UNDERSIDE.

Note: If the selected mount position of the switch is on a section of the car which is not connected electrically to the main body of the car (i.e., wooden floor boards or insulated metal panels), it will be necessary to connect a length of heavy gauge wire (as short as possible) from the metal body of the switch to a grounded section of the car.

FINAL TYPE FOOT SWITCH

Select a mount position on car floor or lower section of car firewall. The switch mount position is to be such that when the switch is being pressed by the car driver's foot, his foot will be well clear of the control

2. From foot switch, peel off rubber dust cover.

- At selected mount position, mark and drill a 9/64" dia. hole in car trim and car body.
- 4. Approx. 2" from 9/64" dia. hole towards top of car, pierce a 4" slot in car
- 5. On one end of flexible lead supplied with receiver is a ''push on'' clip. Connect this clip to metal tongue at base of foot switch, then cover clip connection with rubber sleeving.
- 6. Feed free end of flexible lead through 1/2 slot pierced in trim until foot
- switch is in position for mounting and all excess lead is behind trim. Fashion lead from switch up behind trim to small connector socket on lead protruding from side of receiver metal can near serial number.
- Cut the lead to required length, then withdraw from the car the foot switch. and the lead from behind car trim.
- 9. Remove approx. a $\frac{1}{4}$ " of covering from free end of lead, tin the bared wire end, then insert tinned end into small contact pin supplied with receiver. Solder contact pin connection and remove all excess solder from ball end of pin.
- 10. Feed contact pin end of lead through \(\frac{1}{4} \)' slot pierced in trim until foot switch is again in position for mounting and all excess lead is behind trim.
- Insert a 1% x No. 10 self-tapping screw supplied with receiver, down through hole in foot switch and 9/64% dia. hole drilled in car. Securely tighten 11. the screw, then refit rubber dust cover to switch; make sure edge of dust cover seats into groove at base of switch.
- Fashion lead from switch up behind car trim and insert contact pin on end of 12. lead into small socket on short lead from receiver. Make sure metal sections of plug connector are fully covered with rubber sleeving.

DIAL LAMPS - MODEL "SR" 6-VOLT

When 12-volt 0.182 amp. min. bay. base, G3½ size bulb dial lamps Part No. M370 are used in the dial illumination, ''set on'' indicator and manual operation indicator positions, no series resistor is required in series with the lamps. When 6-volt 0.15 amp. min. bay. base, G31/2 size bulb dial lamps Part No. PM220 are used:-

One 4.7 Ohm $\frac{1}{2}$ watt resistor Part No. PR858 is wired in series with each of the ''set on'' indicator and ''manual operation'' indicator lamps. A 4.7 Ohm 1 watt resistor Part No. PR859 is wired in series with the two (A)

parallel connected dial illumination lamps.

DIAL LAMPS - MODEL "SS" 12-VOLT

When 24-volt 0.125 amp. min. bay. base, G31/2 size bulb dial lamps Part No. M282 are used in the dial illumination, 'set on' indicator and manual operation indicator positions, no series resistor is required in series with the lamps. When 12-volt 0.182 amp. min. bay. base, G31/2 size bulb dial lamps Part No. M370 are used:-

14.

- (A) One 4.7 Ohm ½ watt resistor Part No. PR858 is wired in series with each of the ''set on'' indicator and ''manual operation'' indicator lamps.
- (B) A 4.7 Ohm 1 watt resistor Part No. PR859 is wired in series with the two parallel connected dial illumination lamps.

CIRCUIT MODIFICATION (26-10-55)

A small spiral wound choke Part No. L190 circuit No. 74 has been included in the circuit to eliminate ignition noise which may enter the receiver via the speaker lead.

The small choke is wired inside the receiver metal can on the speaker socket and is connected in the active lead of the speaker trans. secondary.

CIRCUIT MODIFICATION (18-5-55)

To improve the peaking position of the antenna compensating condenser, the 27 MMF cond. circuit No. 30 has been changed to a 50 MMF ceramicon cond. tol. \pm 5% Part No. Cl04.

A 27 MMF cond. PC892 and a 25 MMF cond. PC802 wired in parallel were used until 50 MMF conds. Cl04 were available.

WIRING CHANGE (14-1-56)

Model ''SS'' (12-volt) receivers have the .004 MF condenser circuit No. 17 wired in the control head. The .004 MF condenser will be wired on the receiver chassis instead of the control head on future production of the 12-volt receivers. The change is to eliminate minimum volume effect.

There is a small quantity of 12-volt receivers in the field which have the .004 MF cond. wired in the receiver unit, and also a .004 MF cond. wired in the control head, making two .004 MF condensers in series. This is quite in order, although different from the standard circuit, and will have no effect on the performance of the receiver.

CIRCUIT MODIFICATION (15-2-56)

The .5 megohm tapped volume control has been changed to a 1.2 megohm tapped volume control to improve the smoothness of the control.

A list of the part numbers for the .5 megohm and 1.2 megohm volume controls

are detailed on page 7.

When the 1.2 megohm volume control is used as a replacement for the .5 megohm volume control, a .05 MF cond. Part No. PC991 circuit No. 39 has to be wired in the circuit in the control head.

SPEAKER LEADS (20-2-56)

- (A) Speaker cables which consist of two leads connected to a two-pin plug and have an outer shield braid over the leads with a press stud on one end of the braid for fastening on to the side of the metal case.

 These cables have been changed to a single lead shielded with braid. The shield braid is used as the earth return in that one end of the braid is soldered to one side of the speaker voice coil and on the other end of the braid is connected a press stud for fastening to the button on the outside of the metal can.
- (B) The two-pin plug on all speaker leads has been changed to a single pin Part No. 421/250 for inserting into the small hole in the two-pin speaker socket on the side of the receiver.
- (C) In the case of long leads to speakers mounted at the rear of the car, one lead is connected to the single pin 421/250 and the other lead is connected to a press stud Part No. 246/250 for fastening to the button on the outside of the metal can.

MODIFICATION TO MODEL "SR" AND "SS" SELECTOMATIC CAR RADIO CONTROL HEADS (16-3-56)

A modified type of Pointer Assembly has been produced to give improved movement to the Linkage Arm between Solehoid Tuner and Control Head. This improved movement eliminates the possibility of excessive friction between Pointer Holder and Slide Rail.

The new parts required, which are listed below, will enable a change-over to be effected from the existing to the modified type of Pointer Assembly.

A153/387) 1 Off - Pointer Holder Assembly A127/813) See Note A137/352) 1 Off - Pointer Guide Wire 97/813

2 Off - Pointer Guide Wire Mount Bracket 98/813 1 Off - Felt Washer 54/55-2

There are three basic types of Pointer Holder Assemblies mounted to Control Heads of ''SR-SS'' Car Radio. The car groups to which the Pointer Holder Assembly numbers quoted above apply, are listed below:-

A153/387 - Holden (6-volt).

Al27/813 - C.D.D. Astor, C.D.D. Mopar, Chevrolet, Pontiac, Astor

Universal, Airchief Universal, Rover 90.

Al37/352 - Vauxhall 5E, Jaguar Mk. VII.

MODIFICATION PROCEDURE:

It is necessary on some Control Heads to remove the Control Knobs, Felt Washers, Barrel Nuts, Chrome Washers, Escutcheons and the Dial.

Remove the Tuning Spindle and the necessary self-tapping screws to lower the

front plate away from the back plate of the Control Head.

From slot at top of Control Head Back Plate, remove the ''U''-shaped Spring Clip which secures the Linkage Arm to Spigot of existing Pointer Holder Assembly.

Remove the two screws, Shakeproof Washers and Nuts securing Pointer Rail to Control Head. Discard the Pointer Rail and existing Pointer Holder Assembly.

The Control Head is now ready to have the modified type of Pointer Holder Assembly attached.

Insert the thread of each of the two Screws previously removed, through slot in each of the ''L''-shaped Pointer Guide Wire Mount Brackets, so that the threads of the Screws are pointing in same direction as side of Pointer Guide Wire Mount Bracket which contains two small holes.

From the underside of the Mount Lugs of Back Plate, insert the threads of the two Screws through corresponding holes from which they were previously removed. Position the Pointer Guide Wire Mount Brackets so that sides of both Brackets are on the Tuning Spindle side of Mount Lugs. Place a Nut on to each of the threads of the two Screws and make Nuts fingertight. Before tightening each nut, ensure that Pointer Guide Wire Mount Bracket at Volume Control End of Control Head is parallel to and against the edge of Mount Lug and that Pointer Guide Wire Mount Bracket at Tuning Spindle end of Control Head is parallel to but spaced approximately 1/16'' away from edge of Mount Lug. Use a $\frac{1}{8}''$ spintight to securely tighten both Nuts.

Place Pointer Guide Wire through both loop holes in Pointer Holder Assembly, then insert one end of Pointer Guide Wire through top hole in one of the Pointer Guide Wire Mount Brackets, so that Pointer is facing to front of Control Head. Insert other end of Pointer Guide Wire through top hole in other Pointer Guide Wire Mount Bracket and securely solder one end of Pointer Guide Wire to its Mount

Bracket.

Note: On the Vauxhall 5E and Jaguar Mk. VII Control Heads only, it is necessary to insert the Guide Wire through the lower holes in Pointer Guide Wire Mount Brackets.

Rotate and move Pointer Holder Assembly so that its Spigot enters hole in Insulator Arm of Linkage Assembly. Move this complete assembly so that Spigot is sighted through slot at top of Control Head Back Plate. Place the Felt Washer supplied over the Spigot and refit to the Spigot, the ''U''-shaped Spring Clip which was previously removed.

Refit Front Plate to Back Plate of Control Head and secure these parts together with the self-tapping screws previously removed. Securely tighten all these screws. Refit and secure in position, the Tuning Spindle which was

previously removed.

Refit to Control Head, the parts which were found necessary to remove previously to gain internal access to Control Head, i.e., Dial to Control Knobs.

Re-logging of Pointer should not be necessary, as Pointer setting should not have been altered throughout this change-over process.