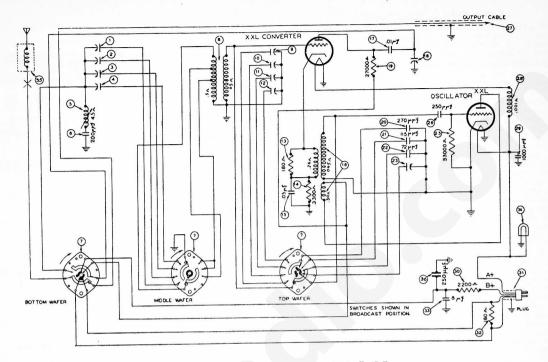
1941 SHORT WAVE TUNER --- MODEL SW-1

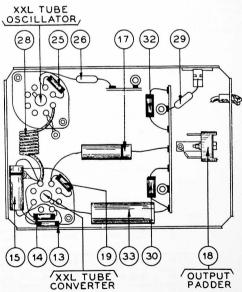


PARTS LIST -- MODEL SW-I

No.

No.	Description	Part No.
(1)	Antenna Padder (Primary 6 MC)	
(2)	Antenna Padder	
(3)	(Primary 9 MC) . Antenna Padder	
	(Primary 11 MC)	Part of (1)
(4)	(Primary 15 MC)	Part of (1)
(5)	Wave Trap	
(6)	Wave Trap Condenser (200 Mmf	d.) 60-120327
(7)	Wave Switch	
(8)	Antenna Transformer	65-0417
(9)	Antenna Padder (Secondary 6 MC)	
(10)	Antenna Padder	
(10)	(Secondary 9 MC)	Part of (9)
(11)	Antenna Padder	D
(12)	(Secondary 11 MC) Antenna Padder	Part of (9)
(12)	(Secondary 15 M	(), Part of (9)
(13)	Resistor (180 ohms)	
(14)	Desistor (3300 ohme	33-233154
(14)	Condenser (05 Mfd	61-0101
(15) (16)	Condenser (.05 Mfd. Oscillator Transforme	65.0436
	Candenson (01 Mfd	1 61-0176
(17)	Condenser (.01 Mfd. Output Padder	1
(18)	Output Padder	
(19) (20)	Resistor (27000 ohn Silver Mica Condens	er
	(270 Mmfd.) Silver Mica Condens	61-0167
(21)	(115 Mmfd.)	
(22)	Silver Mica Condens	er
(23)	(72 Mmfd.) Oscillator Padder (1	5 MC).63-0076
(25)	Resistor (33,000 oh	ms) 33-333334
(26)	Condenser (250 Mm)	'd.) 60-125157
(27)	Output Cable	
(28)	Filament Choke	
(29)	Condenser	
	(1000 Mmfd.) .	60-210157
(30)	Resistor (2200 ohms Power Cable) 33-2325.54
(31)	Power Cable	
(32)	Resistor (180 ohms) Condenser (8 Mfd.)	
(33)	Condenser (8 Mfd.)	
(34)	Dilot Lamn	
(35)	Antenna Choke	
(36)	Antenna Choke Condenser (250 Mmi Housing	
	(Distributor)	77-0761FC59
	(Champion Fernort)	77-07818084
	(Chrysler Export) (Ford Export)	

Durd No.
Description Part No.
(Studeouxer)77-0761FC54 (Packard)77-0761FC51
(Packard)
Rottom Cover
Tube Socket
Knob
(Distributor)
(Chrysler Export)77-0688
(Chrysler Export)77-0688 (Ford Export)77-0835
(Studebaker)
(Distributor)
(Chrysler Export) 77-0841
(Chrysler Export)77-0841 (Ford Export)77-0841
(Packard)
(Studebaker)
(Studebaker)
Complete Control 85.0140
(Distributor)
(Chrysler Export)85-0136
(Ford Export)
(Packard)
(Studebaker)
(Studebaker)
Drum Assy
Stud (Unit Mtg.)97-0184FA3
Spacer (Unit Mtg.) 57-0750FA3
Nut (Unit Mtg.)
Lockwasher (Unit Mtg.) W471FE7
Screw (Control Mtg.) W1459FA3
Washer (Control Mtg.) W1972
Ignition Switch Condenser
(Chrysler) 30-4007
(Chrysler)
(Chrysler)
Voltage Regulator Condenser
(Chrysler)
(Chrysler) Draid
Steering Column Braid
(Chrysler)
Distributor Point Filter
(Chrysler)
Ground Strap (Chrysler) .77-0843 Ground Strap (Chrysler) .77-0844
Ground Strap (Chrysler) .77-0844
Temperature Gauge Condenser
(Ford)
Voltage Regulator Condenser
(Ford)
Horn Button Condenser
(Ford)
Gas Gauge Condenser
(Ford)
Generator Armature Condenser
(Ford)
Braid (Body to Frame)



Distributor Suppressor
(Studebaker)
Fuse Block Condenser
(Studebaker)
Switch Condenser
(Champion) (Studebaker) 61-0168
Steering Column Ground Strap
(Studebaker)
Motor Block Ground Strap (Studebaker)
(Studebaker)

- 205 -

1941 SHORT WAVE TUNER --- MODEL SW-1 (CONTINUED)

MODEL SW-I - ADJUSTMENTS

All padding adjustments are carefully made at the factory and ordinarily no readjustments are necessary. However, when read-justments are required, the procedure given below must be followed in detail.

EQUIPMENT — Fully charged heavy duty storage battery or 6 volt power pack, 077 or 177 Philco Signal Generator, 027 Philco Vacuum tube voltmeter and set test or audio output meter, 45-2610 padding screw driver.

GENERATOR -- VACUUM TUBE VOLTMETER. The model 027 Vacuum tube voltmeter is an extremely sensitive and accurate test instrument and is recommended for use when aligning and adjusting auto radios. Connect the negative (minus) terminal of the Vacuum Tube Voltmeter to the high side (ungrounded side) of the volume control. Connect the positive (plus) terminal to the hous-Volume control. Connect the positive (plus) terminal to the hous-ing. Connect the "AC" cord to a 110 volt AC socket. Press the VTVM button and the 10 volt button. Turn the "Set Zero Ohms-VTVM" control clockwise until a click is heard. Allow the tubes to heat up for a few minutes. Short the 150 megs. VTVM term-inals and adjust the "Set Zero Ohms-VTVM" control until the meter reads zero on the 0-10 range scale (Green Scale). The needle will deflect from right to left.

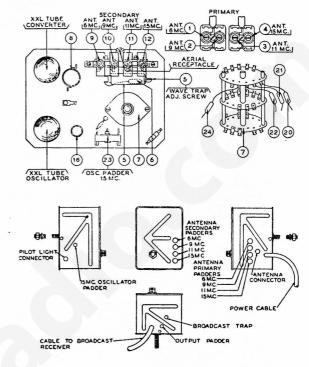
AUDIO OUTPUT METER. If an audio output meter is used, connect the leads across the voice coil of the speaker. Use the 0-30 volt scale.

Any Philco Auto Radio that has a Short Wave Tuner receptacle can be used when padding the tuner.

Remove the connector clip and connect the power cable to the tuner receptacle on the radio. Connect the R.F. cable from the tuner to the aerial receptacle in the radio.

With the radio, signal generator and short wave tuner, set up at the prescribed frequency and proper dummy (See note), turn the radio volume control on full and set the signal generator attenuator so that a half scale reading is obtained on the meter. The signal in the speaker should be audible but not loud.

The signal in the speaker should be audible but not loud. The shielding on the aerial lead should be connected to the [plus] terminal of the signal generator. WHEN MAKING ADJUSTMENTS TO THE CHRYSLER EXPORT, FORD EXPORT, STUDEBAKER, AND DISTRIBUTOR SHORT WAVE TUNERS, IT IS NECESSARY THAT THE AERIAL LEAD BE CONNECTED TO THE CHOKE, PART NO. 77-0885, WHEN MARKING ADJUSTMENTS ADJUST NO. 77-0885, WHICH IS PACKED WITH THE RADIO.



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OPERA-	- SIGNAL GENERATOR FREQUENCY	DUMMY CAPACITY	SPECIAL INSTRUCTIONS AND PADDER ADJUSTMENTS		
TION					
1	Push in the	knob on the tunin	g control or radio until stations can be tuned in by manual tuning.		
2	1400 K.C.	See Note	Set the tuner to broadcast position, and adjust the manual control to 1400 K.C. Adjust the aerial padder on the radio.		
3	6.1 MC	See Note	Set tuner on 6 MC position. Tune in the 6.1 MC signal and adjust the 6 MC primary and secondary padders and the output padder.		
4	9.6 MC	See Note	Set tuner on 9 MC position. Tune in the 9.6 MC signal and adjust the 9 MC primary and secondary padders. If two peaks are obtained 'when adjusting the primary padder use the inner peak.		
5	11.8 MC	See Note	Set tuner on 11 MC position. Tune in the 11.8 MC signal and adjust the 11 MC primary and secondary. If two peaks are obtained when adjusting the primary padder use the inner peak.		
6	15.225 MC	See Note	Set tuner on 15 MC position — four turns clockwise, and the pointer or the dial to 1375 K.C. Adjust the 15 MC oscillator padder and 15 MC primary and secondary padders. If two peaks are obtained when adjust ing the primary and secondary padders, use the outer peak on each.		
7	15.1 MC	See Note	Signal should come in approximately 1250 K.C. on dial.		
8	15.35 MC	See Note	Signal should come in approximately 1500 on dial.		
9	1400 K.C.	See Note	Set tuner on the 6 MC position. Adjust the broadcast trap padder fo MINIMUM signal on a strong local station between 1100 and 1500 KC on the dial.		

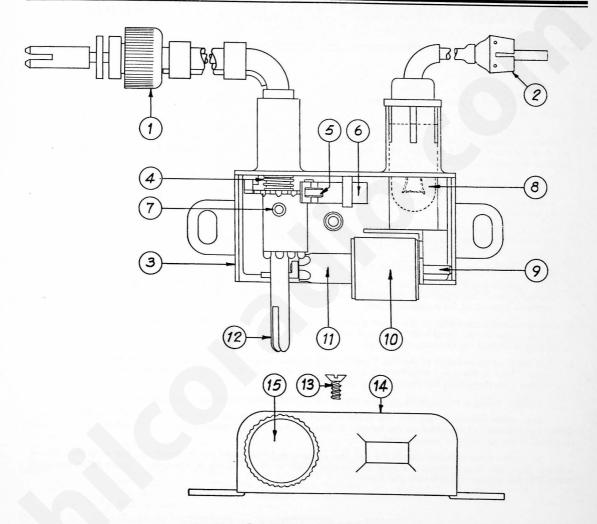
The tuner must have the housing and cover in place.

Make all adjustments for maximum reading on the meter unless otherwise specified.

NOTE: Connect the aerial lead, Part No. 95-0185, to the serial choke, Part No. 77-0885, and then connect the choke in the aerial receptacle on the tuner. (DO NOT USE CHOKE ON

PACKARD). Connect an additional capacity in series between FACKARD). Connect an additional capacity in series between the signal generator and aerial lead on the following: For Chrysler Export (SWC-1E)—Use a 25 Mmfd. condenser. For Packard (SWF-1E)—Use a 20 Mmfd. condenser. For Packard (SWF-1)—Use 45 Mmfd. condenser. For Distributor (SWD-1)—Use 35 Mmfd. condenser.

CONTROL UNIT FOR SHORT WAVE TUNER MODEL SW1



PARTS LIST

		List Price	Description Part No.	List Price
Chryster Export) Packard) Studebaker) Ford Export) dblé Shaft (Distributor, Chryster Export, ord Export) Packard) Studebaker) t Lamp Assy. ding (Distributor) Chryster Export). Chryster Export). Chryster Export). S7-19 Chryster, Ford Export). S7-19 Audebaker, Ford Export). Ash Spring. e. Index . S7-11 e. Index . S7-11	85-0136 85-0142 85-0139 77-0841 77-0842 77-0912 77-09787 754FC59 954FC52 954FC52 954FC54 1840FA3 1855FA3	\$5.00 5.00 5.50 4.75 1.25 1.50 1.50 50 75 75 75 75 75 75 75 10 10 10 10 10 10 10 10 10 10	(7) Set Screw	List Price .05 .12 .35 .20 .35 .20 .50 .50 .50 .50 .50 .50 .25 .25 .45 .15 .60
in a look a look a	uplete Control (Distributor) Chryster Export) Packard) Studebaker) Fold Shaft (Distributor, Chryster Export, Packard) Studebaker) 4 Lamp Assy. stng (Distributor) (Distributor) (Distributor) Packard) Studebaker, Ford Export) 57-11 Rakah Spring 61, Index 57-12 Stributor) 57-12 Studebaker, Stributor) 57-13 Studebaker, Stributor) 57-13 Studebaker, Stributor) 57-13 Studebaker, Stributor, Stribut	uplete Control (Distributor) S5-0140 Chryster Export) S5-0140 Packard) S5-0140 S5-0140 Studebaker) S5-0141 S5-0142 Studebaker) S5-0140 S5-0142 Jord Export) S5-0130 S5-0141 Jord Export) S5-0130 Jord Export) Jord Export) S5-0130 Jord Export) Jordean Tr-0841 Packard) Jordeshort) Tr-0842 Studebaker) I Lamp Assy Tr-10512 Studebaker) sing (Distributor) S7-105416023 Jordef Studebaker) Chrysler Export) S7-105416023 Jordef Studebaker) Studebaker, Ford Export) S7-105416023 Jordef Studebaker Jordeand) S7-105416023 Jordef Studebaker Jordef Studebaker Jung Association S7-105416033 Jordef Studebaker Jordef Studebaker Jung Association S7-105416033 Jordef Studebaker Jordef Studebaker Jung Association S7-105416033 Jordef Studebaker	plete Control (Distributor) Solido S5.00 Chryster Export)	plete Control (Distributor) Cast No. List Frite Description Part No. Chrysler Export) S5-0140 \$5.00 (7) Set Serew W-17659FE7 Chrysler Export) S5-0140 \$5.00 (8) Pilot Lamp S-34.2068 Studehaker) S5-0142 5.00 (9) Pin S-7450968 Studehaker) S5-0142 5.00 (9) Pin S-7450968 Studehaker) S5-0139 4.75 (10) Dial Drum S-71355 Studehaker) S5-0139 4.75 (11) Dial Drum S-71353 ord Export) T-0841 1.25 (13) Cover Mounting Serew W-1906FA3 Studehaker) T-70841 1.50 (11) Cover (Distributor) S-71958 Studehaker) T-70841 1.50 (11) Cover (Mounting Serew W-1906FA3 Studehaker) T-70841 1.50 (11) Cover (Distributor) S-71953FC53 Studehaker) T-70847 5.50 (Packard) S-71953FC53 Studehaker) S-71953FC53 (Studehaker, Ford Export) S-71953FFC53

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

9