



PHOTOFACT[®] with

CIRCUITRACE[®]

TRADE NAME : Ford Models: 7TPD (1967 Falcon)
7TPF (1967 Ford)
7TPO (1967 Fairlane)
7TPS (1967 Thunderbird)
7TPZ (1967 Mustang)

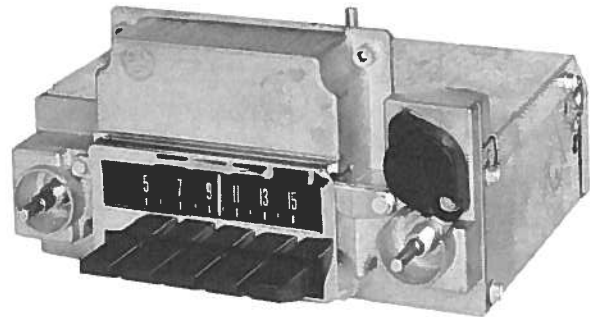
SUPPLIER : For Current Address, See Annual Index.

TYPE SET : 6 Transistor AM Receiver

POWER SUPPLY : 12 Volt Storage Battery

RATING : .55 Amp. @ 12.6 Volts DC


TUNING RANGE: BROADCAST 535-1615KC



ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
Use only enough generator output to provide a usable indication.
Suggested Alignment Tools:

A1 thru A4. GENERAL CEMENT: 9440
WALSCO: 2501
A5 thru A7. GENERAL CEMENT: 8290, 8868, 9087
WALSCO: 2525, 2528, 2587

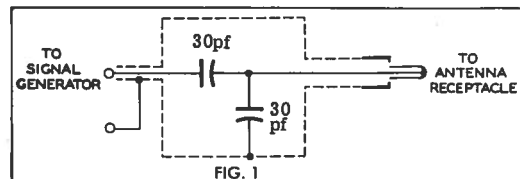
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mfd to point  , low side to ground.	262KC (400v Mod.)	High Freq. End Stop.	Output Meter across voice coil.	A1, A2, A3, A4	Adjust for maximum.
2.	Thru dummy (Fig. 1) to antenna receptacle.	1615KC	"	"	A5, A6, A7	"
Step 3 is not necessary unless tuner has been tampered with or associated components have been replaced. IF necessary, back tuning cores (A8, A9, A10) out of coils but not out of forms. Repeat step 2.						
3.	Thru dummy (Fig. 1) to antenna receptacle.	1000KC	Tune to Signal.	Output Meter across voice coil.	A8, A9, A10	Adjust for maximum. Repeat steps 2 & 3 until no further improvement is noted.

With radio installed in car and antenna fully extended, tune in a weak station near 1400KC and adjust A7 for maximum output.

Antenna Adjustment (A7) located on right side, rear, below Antenna Input.

PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.



HOWARD W. SAMs & CO., INC. Indianapolis, Indiana 46206

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FORD MODELS 7TPD, 7TPF, 7TPO, 7TPS, 7TPZ

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	
Q1	AR-103	RF Amp.	DS-25	GE-9	TR-17	SK-3008	PNP
Q2	AR-104	Converter	DS-25	GE-9	TR-17	SK-3008	PNP
Q3	AR-105	IF Amp.	DS-25	GE-9	TR-17	SK-3008	PNP
Q4	AR-15	AF Amp. ① AF Amp. ① Output					NPN *

* When replacing, apply silicone grease to both sides of insulator. Tighten mounting screws securely.
① Part of M2.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1		1N60	1N60	1N60			
X2		1N60	1N60	1N60			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		PHILCO PART No.	REPLACEMENT DATA				
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	400	16	3L0-0005-03	PWH2-02-40		XC2-43.05	PFP200.65	PCL-2141.2
B	400	16						
C2	25	6	3L0-0009-02	CRE312A	NLW30-6	MT1-13	TT6X25	TL-1091
C3	2	16	3L0-0011-01	CRE451A	NLW3-15	MT1-1	TT15X2	TL-1149
C4	50	3	3L0-0009-06	CRE217A	NLW50-3	MT1-15	TT3X50	TL-1058

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	.02	#3L1-0001-8	TTD-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-820
C11	.001		DI-1000	DD-102	JBS801YP102K	CCD-102	GP210	10TS-D10
C12								
C13		#3L1-0001-7						
C14	150	N750	N750-DI 150	DTN-150				
C15	215	N750	N750-DI 220	DTN-220	CV801UJ221K			
C16		#3L1-0001-5						
C17	330		DI-330	DD-331	JBZ801YP331K	CCD-331	GP331	10TS-T33
C18	.47	†		UK10-474	HCS3R0XR474P		MAG12047	HY-330
C19	.47	†		UK10-474	HCS3R0XR474P		MAG12047	HY-330
C20	.14	†		UK10-104	HCZ3R0XR104P			
C21		#30-1254-1						

Philco Part Number.

† Nominal Value.

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			PHILCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Tone	40K	3L3-0005-4①				
B	Volume/Switch	10K Tap @ 4000Ω					
	Tone	40K	3L3-0005-2②				
	Volume/Switch	10K Tap @ 4000Ω					
	Tone	40K	3L3-0005-3③				
	Volume/Switch	10K Tap @ 4000Ω					
	Tone	40K	3L3-0005-1④				
	Volume/Switch	10K Tap @ 4000Ω					

① Used in Model: 7TPD.

③ Used in Model: 7TPO.

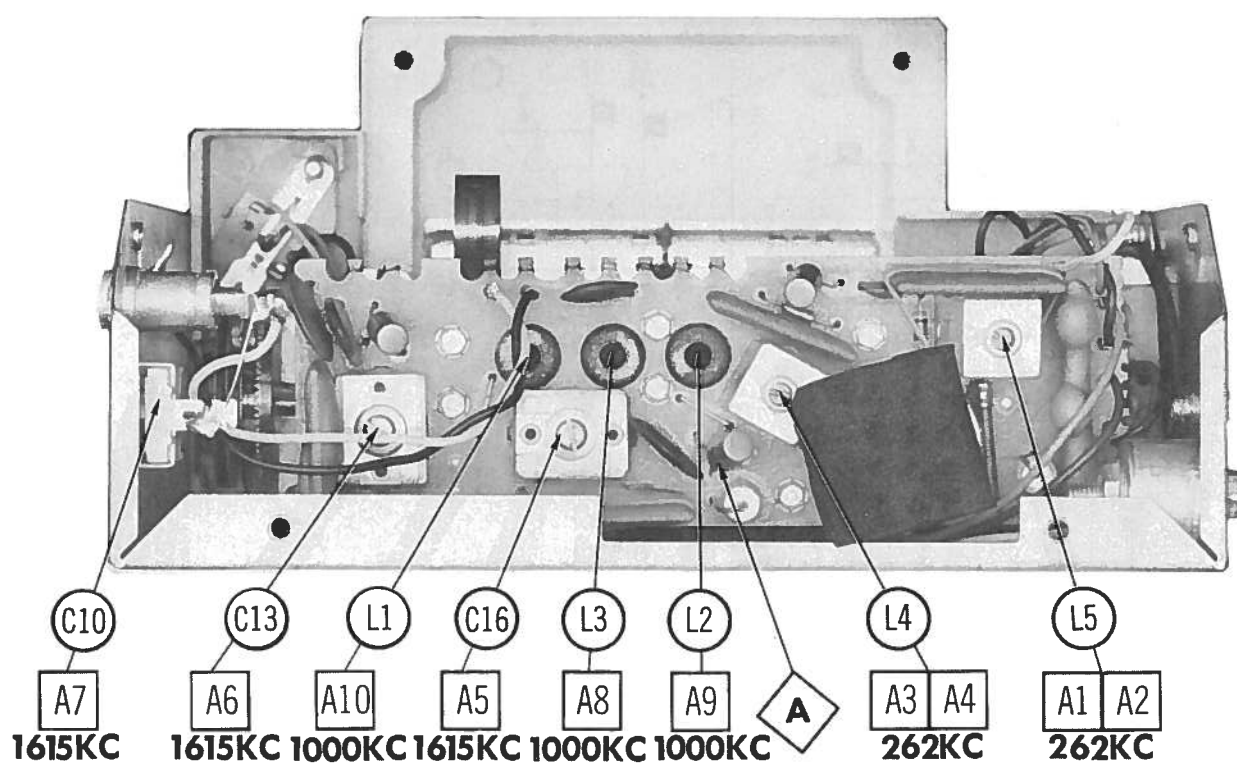
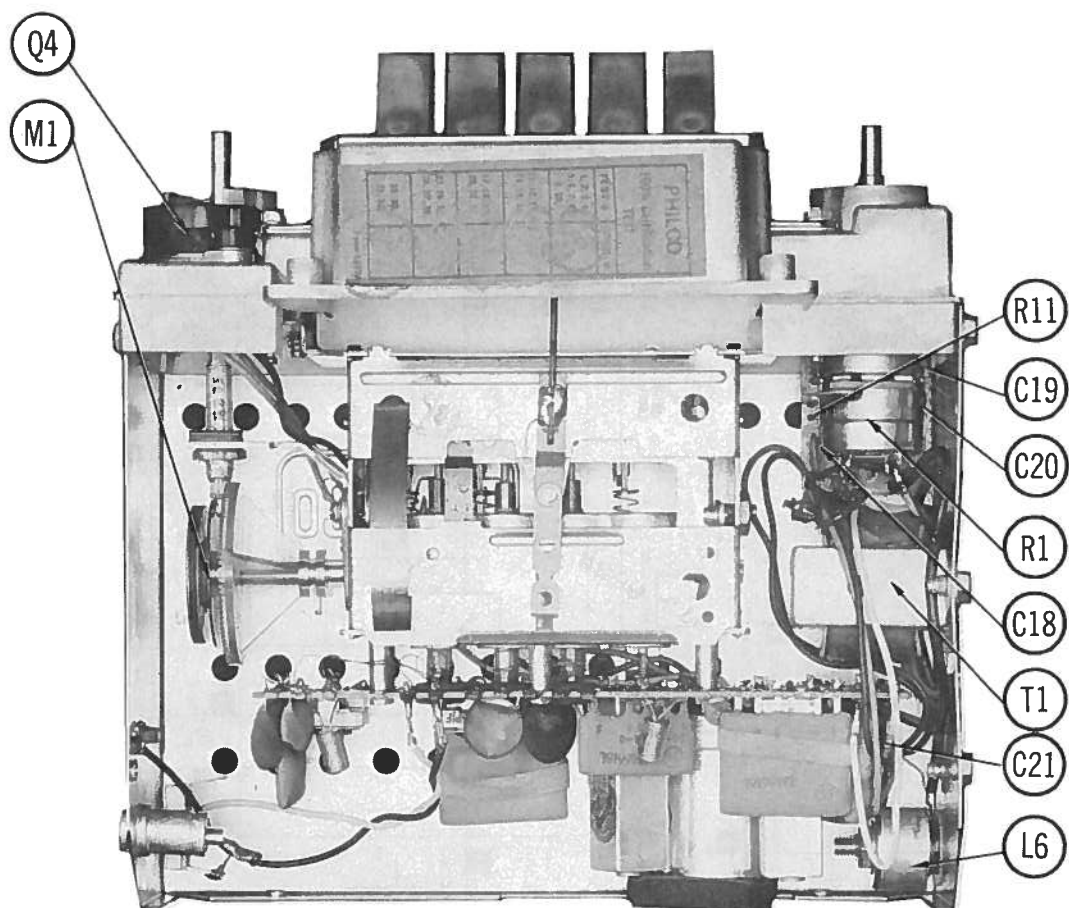
② Used in Model: 7TPF.

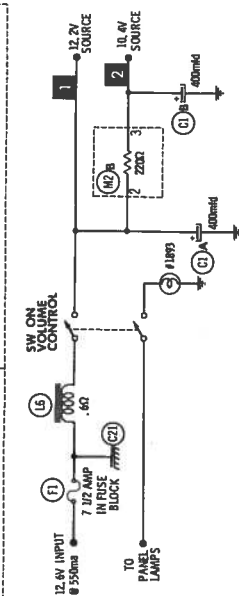
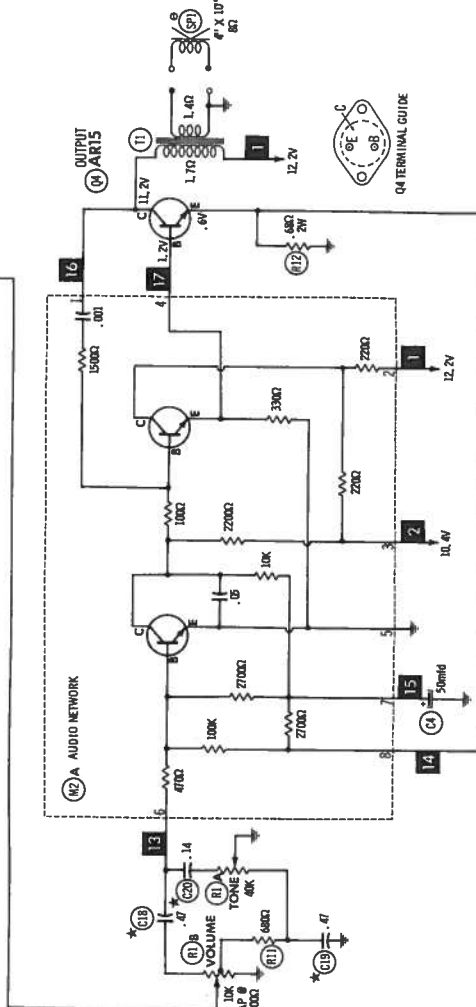
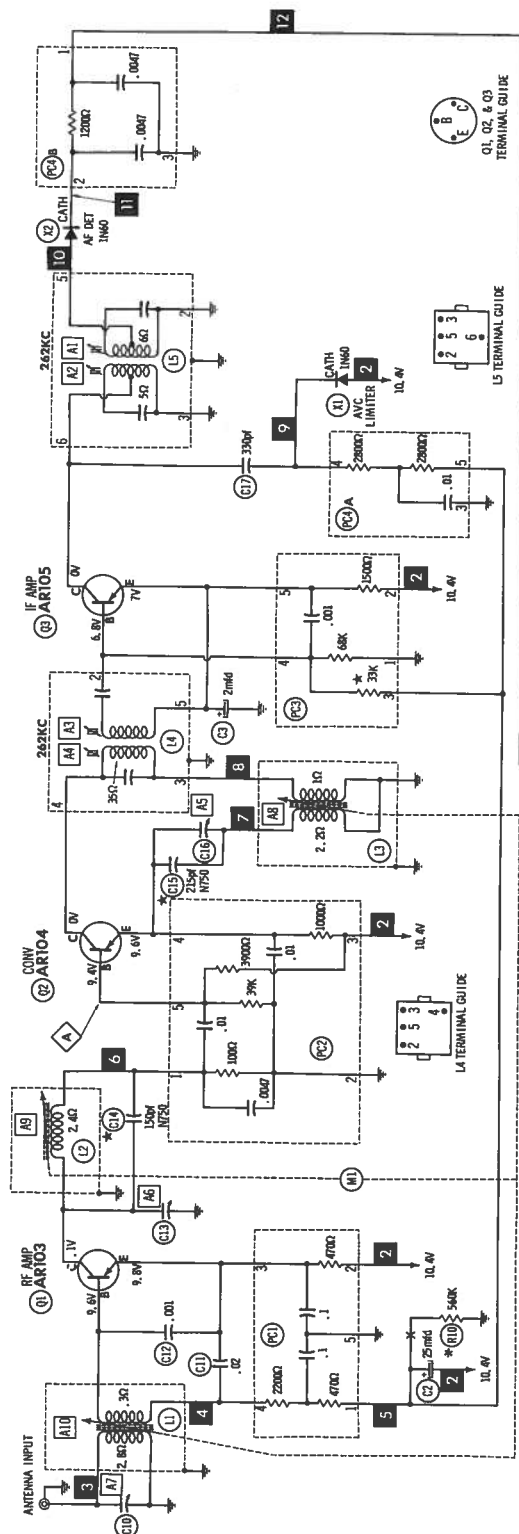
④ Used in Models: 7TPS, 7TPZ.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	PHILCO PART No.			IRC PART No.	WORKMAN PART No.	PART No.
R12	.68Ω 2W	BWH-.68	WS-.68	3L3-0004-01					

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Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.

* NOT USED IN SOME VERTS (ONS).

* NOMINAL VALUE, MAY VARY.

- See parts list
1. Voltage measurements taken with vacuum tube voltmeter.
 2. Measured values are from socket pin or terminal to common ground.
 3. Measured values are from bottom of unit unless otherwise designated.
 4. All terminals viewed to terminals may not be found on the unit.
 5. Numbers assigned to terminals may not be found on the unit.
 6. Supply voltage maintained at rated value for voltage readings.
 7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

A. PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUTIZEE

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FORD MODELS 71PD, 71PF, 71PO, 71PS, 71PZ



PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				
		PHILCO PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.
L1	Antenna	3L2-0007-1				
L2	RF	3L2-0007-2				
L3	Oscillator	3L2-0002-03				
L4	Input IF	32-4882-1			8013	
L5	Output IF	32-4882-2			8014	

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	
L6	550ma	.6Ω	5MH	3L2-0003-02	C-4124①	TC-1①	TR-159①	TY16XT① ① Fabricate Mounting.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	18Ω	8Ω	3L2-0008-1		TA-12	TR-300	TY29X	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA			NOTES
				FORD PART No.	JENSEN PART No.	QUAM PART No.	
SP1	4" x 10"	PM	8Ω	C70A-19A054C	P4X10U8	410A2Z10	Models: 7TPD, 7TPO.
	4" x 10"	PM	8Ω	C7AA-18808-B①	P4X10U8	410A2Z10	Model: 7TPF.
	5" x 8"	PM	8Ω	C7ZA-18808-C①	P5X8U9	58A15Z8	Model: 7TPZ.
							① Supplied by Ford Dealer only.

FUSE DEVICES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
F1	SFE	7 1/2A		In Fuse Block	30707.5		SFE 7 1/2	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PHILCO PART No.	REPLACEMENT DATA
PC1	RF Network	470Ω, 470Ω, 2200Ω, .1mfd, .1mfd	30-8054-6	
PC2	Converter	100Ω, 1000Ω, 3900Ω, 39K, .0047mfd, .01mfd, .01mfd	(30-8054-15)	
PC3	IF Network	1500, 33K, 68K, .001mfd	30-8054-14	
PC4	AVC-Det Network	1200Ω, 2800Ω, 2800Ω, .0047mfd, .0047mfd, .01mfd	(30-8054-12)	
			30-8054-3	
			30-8054-8	

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M1	Tuner	7L6-0021-4	Models: 7TPD, 7TPO.
	Tuner	7L6-0071-1	Model: 7TPF.
M2	Tuner	7L6-0083-2	Models: 7TPS, 7TPZ.
	Audio Network	3L5-0001-1	

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	MODEL	PART No.	ITEM	MODEL	PART No.
Escutcheon	7TPD	2L8-0064-1	Dial Pointer	7TPO	7L6-0058-1
Escutcheon	7TPF	2L8-0058-1	Dial Pointer	7TPS, 7TPZ	2L8-0048-1
Escutcheon	7TPO	2L8-0059-1	Pushbutton	7TPD	2L7-0008-2
Escutcheon	7TPS	2L8-0047-3	Pushbutton	7TPF, 7TPZ	2L7-0034-2
Escutcheon	7TPZ	2L8-0047-1	Pushbutton	7TPO	2L7-0003-2
Dial Pointer	7TPD	7L6-0058-3	Pushbutton	7TPS	2L7-0034-3
Dial Pointer	7TPF	2L8-0058-1	Dial Glass	7TPD	2L7-0008-1
			Dial Glass	7TPF	2L7-0036-1

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Shielded Hook-up Wire	8524 (Stranded) Available in 12 Colors
Bonding Strap	Use BELDEN No. 8885
	Use BELDEN No. 8861 (3/8 In.) or 8870 (3/4 In.)