

MECK (TRAIL BLAZER) MODELS  
5A7-P11, 5A7-PB11

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1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown at bottom views.
3. Measured values are shown at bottom views.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1	12BE6	10K $\Omega$	500 $\Omega$	22 $\Omega$	12 $\Omega$	50K $\Omega$	50K $\Omega$	1.2K $\Omega$
2	12BA6	3.1M $\Omega$	60 $\Omega$	25 $\Omega$	25 $\Omega$	42K $\Omega$	50K $\Omega$	0 $\Omega$
3	12AT6	10.1M $\Omega$	0 $\Omega$	0 $\Omega$	12 $\Omega$	60K $\Omega$	3.7M $\Omega$	25K $\Omega$
4	50B5	470K $\Omega$	150 $\Omega$	85 $\Omega$	35 $\Omega$	55K $\Omega$	50K $\Omega$	470K $\Omega$
5	35W4	110 $\Omega$	110 $\Omega$	85 $\Omega$	100 $\Omega$	100 $\Omega$	100 $\Omega$	50K $\Omega$

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1	12BE6	-6.4VDC	1.7VDC	24VAC	12VAC	100VDC	100VDC	0V.
2	12BA6	-1.25VDC	0V.	37VAC	24VAC	26VDC	100VDC	0V.
3	12AT6	-1.8VDC	0V.	12VAC	12VAC	-1.25VDC	65VDC	65VDC
4	50B5	0V.	5.8VDC	87VAC	37VAC	125VDC	100VDC	0V.
5	35W4	0V.	117VAC	117VAC	87VAC	114VAC	60VAC	120VDC

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

TRADE NAME	Meck (Trail Blazer) Models 5A7-P11, 5A7-PB11					
MANUFACTURER	John Meck Industries, Plymouth, Indiana					
TYPE SET	AC-DC Operated Superheterodyne Receiver with Loop Antenna					
TUBES (FIVE)	Types, 12BE6 Converter, 12BA6 IF Amp., 12AT6 Det.-AVC-AF, 50B5 Power Output, 35W4 Rectifier.					
POWER SUPPLY	110-120 Volts AC-DC		RATING			
TUNING RANGE—BROADCAST	540-1750KC		.24 Amp. @ 117 Volts AC			
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
To set pointer turn tuning cap. fully closed and set pointer parallel with base of dial. Use isolation transformer if available. If not, connect a .1 MFD capacitor in series with low side of signal generator and chassis. Volume control should be at maximum position output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD	High side to rear stator of tuning cap. Low side to chassis.	455KC	Tuning cap. fully open.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output. If isolation transformer is not used reduce dummy ant. to .001 MFD to reduce hum modulation.
	Loop	1600KC	1600KC	"	A3	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1400KC	Tune for maximum output.	"	A4	Adjust for maximum output.

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Indianapolis Indiana

**PARTS LIST AND DESCRIPTIONS**

TUBES (SYLVANIA or Equivalent)

MECK (TRAIL BLAZER) MODELS  
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**CHASSIS—TOP VIEW**

ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	INSTALLATION NOTES
		MECK PART No.	STANDARD REPLACEMENT			
1	Converter	12B28	12B28		7C5	
2	IF Amp.	12B46	12B46		7K7	
3	Det.-AVC-AF	12A76	12A76		7B7	
4	Power Output	50B5	50B5		7B2	
5	Rectifier	35M4	35M4		5B2	

**CAPACITORS**

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		MECK PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.	
6A	30 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Red
6B	20 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
7	8 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
8	0.05 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
9	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
10	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
11	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
12	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
13	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
14	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue
15	0.01 CAP. 150 VOLT			D88-2X30-150	7A-330	E23315 Filter - Blue

\*Do not use bypass section.

**CONTROLS**

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		MECK PART No.	IRC PART No.	CLAROSTAT PART No.		
16A	500KΩ	RCP-10105	D12-133	M-60-2	Volume Control	
16B	500KΩ	RCP-10105	D12-133	M-60-2	Volume Control	
16C	500KΩ	RCP-10105	D12-133	M-60-2	Volume Control	

**RESISTORS**

ITEM No.	RATING	REPLACEMENT DATA				IDENTIFICATION CODES
		MECK PART No.	IRC PART No.			
17	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
18	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
19	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
20	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
21	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
22	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
23	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
24	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
25	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
26	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1
27	10KΩ	RCP-31002	5W-100			Br.-Blk.-Br. Converter Cathode - See Note 1

Note 1 - Some models use 150Ω in this application. IRC replacement parts as item 25.

Note 2 - Some models use 22Ω in this application. IRC replacement parts as item 25.

**PARTS LIST AND DESCRIPTIONS (Continued)**

**TRANSFORMER (OUTPUT)**

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		MECK PART No.	STANCOR PART No.	THORDARN PART No.	MERT PART No.	
28A	1600Ω	3.2Ω	150Ω	3.2Ω		Used with alternate speaker
28B	1600Ω	3.2Ω	150Ω	3.2Ω		Used with alternate speaker

**SPEAKER**

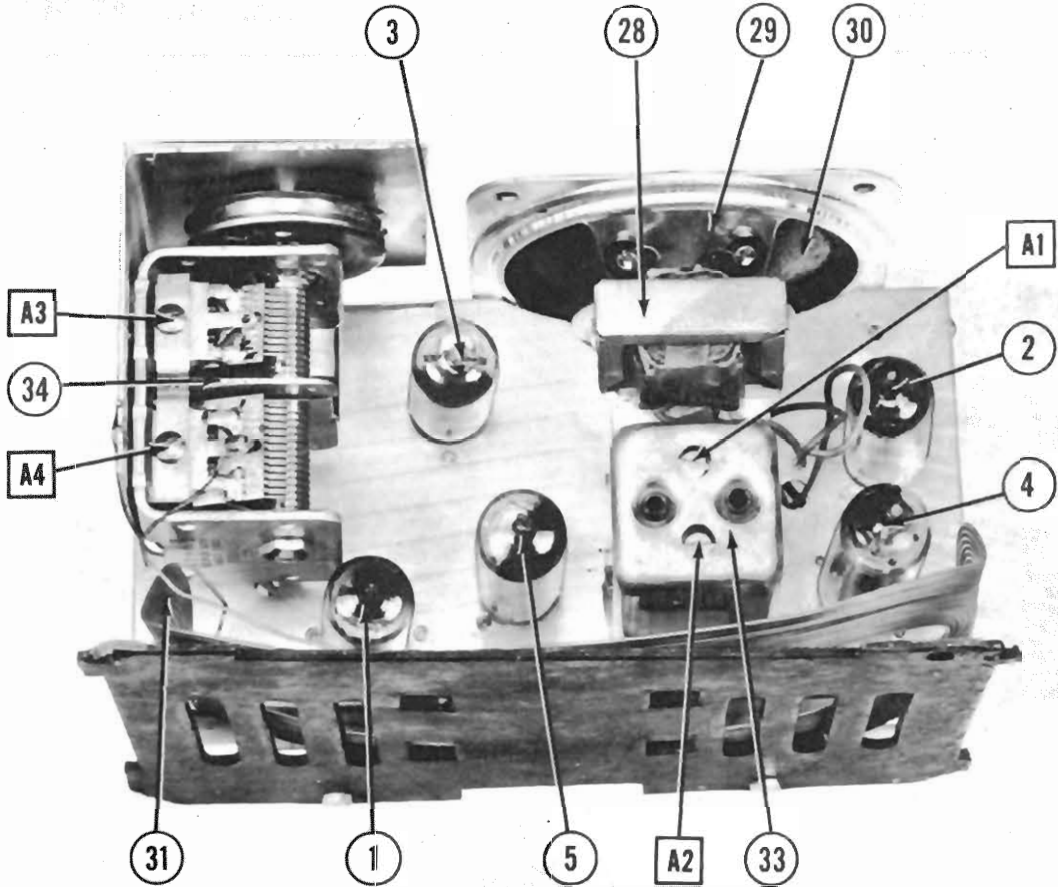
ITEM No.	RATINGS	REPLACEMENT DATA				INSTALLATION NOTES
		MECK PART No.	JENSEN PART No.			
29A	FIELD					
29B	FIELD					
30	CONV. DIA.					Alternate Speaker

**R F COILS**

ITEM No.	USE	REPLACEMENT DATA			
		MECK PART No.	MEISSNER PART No.		
31	Loop Ant.				
32	Sec. Coil				
33	Input IF				

**MISCELLANEOUS**

ITEM No.	PART NAME	MECK PART No.	NOTES
34	2 Ohm Var. Cap.	CV-10008	(35-451 MF, 28-191 PPF)



**CHASSIS—BOTTOM VIEW**

