

NAME Material on Hand  
ADDRESS and used in  
SUBJECT Project  
DATE 1937

**ARMOUR INSTITUTE OF TECHNOLOGY**

# Power supply.

GE40525 mercury arc	15.00
express	1.50
220-8800 transformer	12.00
express	1.50
2 amp 30 hvy homemade choke ?	
30 amp 10 volt " x four ?	
2 amp 65 " " " ?	
2 " .05 hvy " choke ?	
1 wooden rack - lumber	2.50
nuts bolts + washers	1.50
1 cartridge fuse block + fuses,	.60
1 Plug fuse block and fuses	.60
1 30 amp switch	.75
1 Bradley E210 rheostat	1.10
1 Bradley rheostat	.75
2 quarts of oil	.50
12 ft of H.T. wire	.60
15 ft heavy power wire @ 5¢	.75
1 1 KW per	2.50

22.15

12	4 mfd 1500V cond @ 8¢	12.00
16	300000 $\Omega$ 1 watt resis @ 3¢	.48
1	Booster x four homemade, ?	
10	mfd condenser across key	1.10
1	100 watt lamp + socket across key?	
1	filter out out switch	.60
100	ft #6 flex wire	\$ 2.00
	+ 8665	5.00
100	ft high tension cable Marshall	2.45
1	Aene .0005 Condenser from Fields	1.50
2	Silver Marshall audio Trans #220	6.50
1	Cardwell #191 Dravay condenser	2.50
	Honeycomb coils	3.00
	" " Mounting	2.50
1	SM 293 choke	.50
2	" 277 chokes	.85
1	" 275 "	.60
11	Remor sockets @ 35¢	3.85
1	Chelton midjet condenser	1.25
6	G-5 Varcondensers @ 90¢	5.40

# Last Power Amplifier

3	UX 8525	2114	27.50
	respectively	1340	21.00
	numbered,		12.50
3 $\frac{1}{4}$ #	$\frac{3}{8}$ " tubing		1.30
2	4" standoff insulators		.84
2	towel bars, glass		.20
8	2" standoff insulators @ 25¢		2.00
1	Jewell #74 0-15V, AC meter		5.51
1	" #78 0-15 AC meter		5.51
1	" #68 0-1 RF meter		8.91
1	" #88 0-10V D.C. meter		5.51
1	Dublier 15KV .004 cond.		9.80
1	coil 18T #6 2" Dia ?		
1	" 8T #6 2" Dia ?		
1	10000 $\Omega$ 100w Wadbrand resistor		1.30
1	coil 4T, 1" x $\frac{1}{8}$ " strap 4" dia	}	1.35
1	" 2T " 4 $\frac{1}{2}$ "		
1	" 38T #6, 4" dia ?		
			103.23

BOYS

1	National split stator cond	8.00
1	" remodeled receiving cond	6.50
1	split stator reg. cond,	1.35
3	Remler sockets, @ 30¢	.90
8	48000 $\Omega$ Savite wire @ 10¢	.80
2	18000 $\Omega$ " " @ 10¢	.20
11	.006 micadons, @ .15¢	1.65
3	.001 " @ 15¢	.45
2	.002 Sangamo cond @ 30¢	.60
2	.001 unknown cond. @ 30¢	.60
2	tuning cond plates, ?	
4	neut. " " ?	
1	plate voltage switch,	1.65
1	852	12.50
4	Remler I.F. Trans 3 wire 1 air	16.00
4	" " " 2" 2"	15.00
	Nathaniel Baldwin phone unit	4.35
5	Phasatrols "Electrol at 2.75	13.75
		<u>84.30</u>

# Antenna

4 Lead in bowls @ 1.05	4.20
2 Bolt nuts + washers @ .50	1.00
1 Blocking condenser 10KV Faradon	2.50
128 ft #12 ant wire	2.56
2 Porcelain standoffs	.50
6 Glass standoffs @ 65¢	1.30
Paint one gallon + thinner	.50
1 Jewell #68, 0-1 RF meter	8.91
1 Lightning arrester	.55
100 strain insulators	3.04
4 eyebolts + 6 machine bolts	1.45
4 16 1/2" x 1" x 18 ga brass tubes	11.13
4 7" Pyrex standoffs	8.69
10 ft 1/16" x 1/2" brass strap	.54
1600 ft #14 Beldwanil wire	15.20
Lumber	5.79
2 Acme Condensers @ 3.60	7.20
Roofing paper	.45
	<u>75.51</u>

~~Back number IRE 12.00~~

~~flight express 1.50~~

1 yard meter 0-300ma 3.75

resistor 2.06

2 UX 852s @ 12.00 24.00

1 Weston #425 0-3RF 6.00

~~1 10 0-5 6.00~~

Express, insurance, postage 1.25

2' 1/2" copper tube & 2' 1" tube 2.12

10 Johnson stand off insulators 3.00

2 UX 852s at \$12.00 each 24.00

Express insurance & postage 1.75

Wood for rack 1.03

Meter & box from Schlutt 5.00

4 100,000 ohm resistors 2.36

40 ft ignition cable H.V. .96

Copper rod from Stewart Warner .47

77.75

Traded one for 5-A6 cells

# Battery Supply

6 volt Edison, Expor etc 9.59

40' H.V. ignition cable .96

4 - 225 AH Edison Cells @ \$1.00 4.00

type A-10 150 lbs freight 1.62

2 year subscription To Bell Tech. Jnl 3.00

2 copies back issues 1.00

Copy July 1934 AIEE Jnl 1.50

" Proc IRE Aug 1929 .75

Ad for Batteries in Dec QST + R9 1.25

Copper rod from Stewart Warner .47

9-150 A-4 cells 9.00

freight - 2.18

4-150 A-4 cells from H.O. Leon Minneapolis 4.00

Freight - 1.01

Wire coils for magnetron 1.00

" " Audio Filter 1.50

Magnetron Tube + freight 30.60

Parts for 1 meter receiver 1.35

Core for magnet 9.30



~~Equipment needed for new xmitter~~

~~1 UX852~~

~~2 Cardwell condens. ← no~~

~~1 Fil hour meter for trials~~

~~1 " " " " rectifiers~~

~~4 UV872 rect. + Fil xfmrs.~~

~~1 Fil xfm 5-10V, 3 Amp windings~~

~~1 0-25 & 0-150 ma meter large scale.~~

~~1 .004 12.5 KV Dublier's blocking Cond.~~

~~8 50,000 Ω 2 watt resistors,~~

~~1 100 henry 100 ma choke.~~

~~2 0-2 R.F. ammeters for up to 2,4 KW on 600 <sup>50</sup> line~~

~~12-10-38 paid \$22.00 for 22~~

~~type A-6 Edison cells from <sup>WJM</sup> Atlantic  
of Raymore Mo.~~

~~2 defunct WE232A tubes 5.00~~

~~1 RCA 206 traded for 2 UV 1/4 KW SG~~

~~65.00 + \$10 transportation 75.00~~

~~1 Sampson #51-50KC band filter 7.50~~

~~82.50~~

1 Crocker Wheeler Dynamotor	25.00
	express 1.75
1 G.E. Dynamotor	32.50
	express 2.00
2 Rubber Condensers @ 2.65	5.30
1 0-3V Jewell Meter swapped for two more rubber condensers	4.75
1 acme 1mfd x 800V condenser	5.50
20 20mfd electrolytic @ 35¢	7.50
Lumber etc (see sheet)	41.65
	<hr/> 125.95
<u>Limited on attached sheet</u>	
Magnetron and accessories	99.98
1937 Receiver parts	47.12
	<hr/> 770.57
Total	

# apparatus available prior 1937

Charge 1939 to batt charger.

\$22.01

1	Receptacle for cord,	.30
1	Fil. Trans, 110-12V, remolded G.E.	7.50
1	Filament Rheostat 150Watt,	3.50
1	0-5amp DC. meter used.	3.00
1	Tungsten bulb 5amps,	5.50
1	mogul socket	.25
1	Fuse socket	.25
1	Power switch 30amp.	.75
40'	H.V. Cable on batt. charger	.96

Charge in 1940 to reader. see over. cont'd.

meter \$9.92

1	acme 4 mfd 800V condenser	5.50
2	80 tubes @ 35¢ + sockets 05	.80
4	Stewart Warner chokes @ 60¢	2.40
1	Meter 0-1ma + box from Schlutt	5.00
4	100K $\Omega$ resistors	2.36
1	Oxide type meter rectifier	2.06
5	8 mfd 500V Solar dry electrolytics @ 60¢	3.00

Charge 1937 Magnetron

	Weston 0-3 R.F. meter	8.00
	" 0-10ma "	6.00
	" 0-15 " "	6.00
	Magnetron from RCA	30.60
	Coil for Magnetron from Stew. War.	1.03
	Steel core for magnetron magnet	2.00
6-	2ohm rheostats @ 25¢	1.50
6-	7500 $\Omega$ " @ 60¢	3.60
2	switches + points @ 50¢	1.00

7 toggle switches @	35¢	2.45
1 100 mfd electrolytic	50¢	.50
Copper oxide rectifier		1.00
Trans for above		1.00
1 10K $\Omega$ rheostat		2.53
1 Tax		.08
1 0.1 mfd Dumbley Condenser		.75
1 filament choke		2.75
2 Thordanson Trans @	3.23	6.46
1 Selenium Rect.		2.25
2 jacks @	10¢	.20
Total including 4 items on reverse side		31.67

# Apparatus available prior 1937

Charge in 1937 to Magnetron

4	WE 104A tubes @ 1.00	4.00
1	H.V. Power trans W.E	2.50
1	Fil. Trans. "	2.50
8	400V Paper condensers @ 1.00	8.00
	0-2A Weston meter	6.00
	Socket for magnetron	.25
	assortment crystal detectors	1.00
	" " Conical Horns copper	5.50
	" " Chambers & caps, "	8.50
	Wave meter	1.00
	Load light	1.00
		Magnetron total, 99.98

Charge 1937 to neon.

	Jewell 0-1 RF. meter changed to DC	8.91
	" 0-10V DC "	5.51
	" 0-200 $\mu$ a "	8.00
	Wood cabinet + panel + subpanel.	6.50
	Fil. Power switch	.75
3	toggle switches @ 35¢	1.05
2	switch + points @ 50¢	1.00
2	rheostats @ 25¢	.50
1	jack	.10
8	6F5 tubes @ 60¢ + sockets @ 10¢	5.60
2	Dry cells @ 35¢	.70
2	Flash light cells @ 10¢	.20
	Coils for Audio Filter from Steiv. Nov.	1.55
	Audio filter Cond. " " " "	6.75
		<u>47.12</u>

Material On Hand May 1937

440 board feet 1" tongue + Groove @ 7¢	30.80
115 " " 2"x5" @ 7¢	8.05
35 lbs nails @ 8¢	2.80
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	41.65