Lawrence Berkeley National Laboratory
Recent Work

Title
MTA MARK I OSCILLATOR CONVERSION, BOXES No. 5 AND No. 14 MASTER PARTS LIST

Permalink
https://escholarship.org/uc/item/10g7f0mr

Author
Patton, F.

Publication Date
1952-03-01

eScholarship.org Powered by the California Digital Library
University of California

UNIVERSITY OF CALIFORNIA
Radiation Laboratory

Cover Sheet
Do not remove

INDEX NO. UCRL 1849
This document contains 116 pages
This is copy 2 of 8 series A

CONFIDENTIAL
SECURITY INFORMATION
RESTRICTED DATA

This document contains restricted data as defined in the Atomic Energy Act of 1946. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.

Classification

INFORMATION DIVISION

Issued to ~~D. Sewell~~
returned to Info Div
8-29-57

Each person who receives this document must sign the cover sheet in the space below.

Route to	Noted by	Date	Route to	Noted by	Date

I-5(M)

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

CONFIDENTIAL
RESTRICTED SECURITY INFORMATION
WHEN SEPARATED FROM INCLOSURES, HANDLE THIS DOCUMENT AS
into sections
UCRL #1849
RESTRICTED SECURITY INFORMATION
This document contains restricted data as defined in the Atomic Energy Act of 1946. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.
CONFIDENTIAL
SECURITY INFORMATION
RESTRICTED DATA
This document contains restricted data as defined in the Atomic Energy Act of 1946. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.

THIS DOCUMENT CONSISTS OF 116 PAGES
NO 2 OF 6 COPIES, SERIES A

M.T.A. MARK I - OSCILLATOR CONVERSION

BOXES NO. 6 AND NO. 14

MASTER PARTS LIST

CONSISTING OF PAGES 1 THROUGH 63

(TOTAL: 111 PAGES)

Classification changed to UNCLASSIFIED
by authority of CG-MF-2
James T. Davis 6-14-71
SAN Classification Officer

CONFIDENTIAL
RESTRICTED

M.T.A. MARK I - OSCILLATOR

INDEX

	Page No.
Panel Number One Assembly	1 thru 6
Upper Door Assembly	1, 1.1
Lower Door Assembly	2, 2.1
High Voltage Plug Lead	3, 3.1
High Voltage Plug Clamp	4
Component Parts	5
Parts of Final Assembly	6
Panel Number Two Assembly	7 thru 17.2
Electrical Gutter Box	7, 7.1, 7.2
Clamp Spring	8
Bias Compartment	9, 9.1, 9.2
High Voltage and Plug Box	10, 10.1, 10.2, 10.3
Grid Compartment	11, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6
R. F. Probe Assembly	12, 12.1
~~Outlet Probe Number One~~	13
Choke Lead Through Bushing	14
Choke Bypass Condenser	15
Component Parts	16, 16.1
Parts of Final Assembly	17, 17.1, 17.2

M.T.A. MARK I - OSCILLATOR

INDEX

(CONTINUED)

- - - - - - - - - - - - - - -

	Page No.
Panel Number Three Assembly	18 thru 30.1
Grid Inlet Assemblies	18
Grid Outlet Assemblies	19, 19.1
1" Beaming Cylinder Inlet	20
1" Beaming Cylinder Outlet	21
Drain Assembly	22
2" Plate Inlet	23
2" Plate Outlet	24
Truck and Wheels	25
~~Flange Inlet~~	~~26~~
~~Flange Outlet~~	~~27~~
Hub and Stub	28
Component Parts	29
Parts of Final Assembly	30, 30.1
Panel Number Four Assembly	31 thru 41.1
Safety Valve	31, 31.1
Bypass Condenser	32
1" Beaming Cylinder Filter	33
Pressure Gage Connection	34
1" Beaming Cylinder Inlet #5	35
Lift Truck Position Lock	36
Component Parts	37
Drain Assembly Number Five	38
Box Riveted Sub-Assembly	39
Clamp Spring	40

M.T.A. MARK I - OSCILLATOR - PRE-EXCITER

INDEX

(CONTINUED)

	Page No.
Top Panel Assembly	42 thru 44
Top Cover	42
Component Parts	43
Parts of Final Assembly	44
Elevation of Box With Doors Removed	45 thru 49
Component Parts	45, 45.1
Anode Water Coupling	46
Air Hose	47
Hand Hole Cover	48
Parts of Final Assembly	49
Elevation of Box With Panel #2 Removed	50 thru 51
Component Parts	50, 50.1
Parts of Final Assembly	51
Section Thru Box Looking Toward Panel #4	52 thru 61.1
Tube Assembly	52, 52.1
Conversion Ground Plane	54, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7
Transformer Assembly	53, 53.1, 53.2, 53.3, 53.4
Cover	56
Filament Lead	57
Grounding and Phasing Condenser	58
Anode Termination Line	59

M.T.A. MARK I - OSCILLATOR - PRE-EXCITER

INDEX

(CONTINUED)

- -

	Page No.
Anode Blocking Condenser	56
Anode Phasing Condenser	55
Component Parts	60, 60.1
Parts of Final Assembly	61, 61.1
Special Tools	62, 62.1, 62.2, 62.3, 62.4
Alignment Equipment	62.5, 62.6
Special Tools	62.7, 62.8
Reference Drawings	63

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
UPPER DOOR ASSEMBLY	5N2026	March 6, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1201	13	Door Clamp Bracket - Small	
5N2502	3	Upper Door Window Flange	
5N2461	3	Upper Door Window	
5N2481	3	Upper Door Window Screen	
5N2491	6	Upper Door Window Gasket	
5N2132	1	Door Hinge Bracket - Upper	
5N2452	1	Door Hinge Bracket - Lower	
5N2142-2	1	Door Hinge Link	
6A1031	13	Handle	
6A1041	13	Spring Guide	
6A1051	13	Male Indicator	
6A1061	13	Flange	
6A1081	13	Spring	
6A1092	13	Dog	
		Parts of Final Assembly:	
	14 ft	Rubber-Pure Gum-½ x ½ - 30 Duro.	
	4	Rivnut BR-25-K-151 (¼-20 Thread)	
	66	Cherry Blind Rivet #CR-162-6-8	
	44	Hollow Head Tubular Rivets-1/8" Dia.	
		Steel, Cadmium Plated	
	41	Hollow Head Tubular Rivets-3/16" Dia.	
		Cadmium Plated	
	84	Aluminum Rivet 1/8" Dia. - Round Head	
	17	Lock Washer - ¼" Steel	
	4	Capscrew ¼-20 x 3/4" Hex. Hd., Stl. Cad. Pl.	

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	1.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
UPPER DOOR ASSEMBLY	5N2026	March 6, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	13	Capscrew ¼-20 x ½" Hex. Head, Steel - Cadmium Plated	
	65	Washer 9/16 - 1 3/32 O.D. x 3/32 Steel - Cadmium Plated	
	4	Machine Screw #10-32 x ½" Truss Head Brass	
	28	Nut #10-32 Hex. - Brass	
	2	Washer - ½ x 1 1/16" O.D. x 3/32" Steel Cadmium Plated	
	24	Machine Screw #10-32 x 1½ Round Head Brass	
	3	Hollow Head Tubular Rivet - 3/16" Dia. Steel, Cadmium Plated.	
	52	Hollow Head Tubular Rivet - 3/16" Dia. Steel, Cadmium Plated	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	2
ASSEMBLY	ASSEMBLY NO	LISTED BY	
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
LOWER DOOR ASSEMBLY	5N2036	March 7, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N2101	11	Door Clamp Bracket - Small	
5N2071	5	Door Clamp Bracket - Large	
5N3332	1	Outer Lock Plate	
5N3232	1	Inner Lock Plate	
5N3342	1	Door Lock Cover	
5N2132	1	Door Hinge Bracket - Upper	
5N2452	1	Door Hinge Bracket - Lower	
5N2142-1	1	Door Hinge Link	
5N2481	3	Screen	
6A1031	16	Handle	
6A1041	16	Spring Guide	
6A1051	16	Male Indicator	
6A1061	16	Flange	
6A1071	5	Center Dog Spacer	
6A1081	16	Spring	
6A1092	11	Dog	
6A1102	5	Center Dog	
		Parts of Final Assembly:	
	14 ft.	Pure Gum Rubber ½ x ½ - 30 Duro.	
	4	Rivnut - BR-25K-151	
	56	Cherry Blind Rivet #CR 162-6-8	
	36	Hollow Head Tubular Rivet - 1/8" Dia.	
		Steel, Cadmium Plated	
	169	Hollow Head Tubular Rivet 3/16" Dia.	
		Steel, Cadmium Plated	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	2.1
ASSEMBLY: OSCILLATOR PANEL NUMBER 1	ASSEMBLY NO.: 5N1475-1	LISTED BY: F. Patton	
SUB-ASSEMBLY: LOWER DOOR ASSEMBLY	SUB-ASSEMBLY NO.: 5N2036	DATE: March 7, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	50	Aluminum Rivet - 1/8" Dia. Round Head	
	16	Lock Washer - ¼" Steel	
	4	Capscrew - ¼-20 x 3/4" Hex. Head, Steel - Cadmium Plated	
	16	Capscrew - ¼-20 x ½" Hex. Head, Steel Cadmium Plated	
	55	Washer 9/16" - 1 3/32" O.D. x 3/32" Steel, Cadmium Plated	
	4	Machine Screw #10-32 x ½" Truss Head Brass	
	4	Nut #10-32 Hex. - Brass	
	2	Washer - ½" - 1 1/16" O.D. x 3/32" Steel, Cadmium Plated	
	3	Machine Screw #10-32 x 7/8" Round Head, Steel - Cadmium Plated	
	4	Machine Screw - ¼-20 x 1½ Fillister Head - Brass	
	1	Yale Lock #80 Spring Latch #1109 Cylinder	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	3
ASSEMBLY: OSCILLATOR PANEL NUMBER 1	ASSEMBLY NO.: 5N1475-1	LISTED BY: F. Patton	
SUB-ASSEMBLY: HIGH VOLTAGE PLUG LEAD	SUB-ASSEMBLY NO.: 5G2163	DATE: March 7, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
10Z5823	1	High Voltage Plug and Receptacle Ass'y.	
		Consisting of the Following Indented	
		Parts:	
10Z5891	1	Plug	
10Z5901	1	Plug Nut	
10Z5912	1	Plug Insulator	
10Z5921	1	Plug Nut	
10Z5931	1	Plug Clamping Shell	
10Z5941	1	Plug Clamping Nut	
10Z5951	1	Braid Ring	
10Z5963	1	Plug Handle	
5N2581	1	Flange	
5N2591	1	Clamp	
5N2601	1	Washer	
5N2612	1	Clamp	
6A2131	1	Insulating Cone	
6A2121	1	Insulating Cone Retainer	
		Parts of Final Assembly:	
	4	Capscrew ¼-20 x 1" Hex. Head, Brass	
	4	Capscrew #10-24 x 5/8" Socket Head,	
		Steel - Cadmium Plated	
	1	Solder Lug - 70A, UCRL Cat. #2A3135	
	6'1"	Okonite High Voltage Plug Cable	
		Note: Cable Must Be Made To The	
		Following Specifications Listed on 3.1	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	3.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
HIGH VOLTAGE PLUG LEAD	5G2163	March 7, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		(1) 133 Strands of .0177 Dia. Wire Tinned Copper Equal to #4.	
		(2) .02 Thick Jacket of Semi-Conducting Neoprene	
		(3) 13/64 Wall of Okonite	
		(4) .02 Thick Semi-Conducting Neoprene	
		(5) Two Copper Braid Jackets of Tinned Copper Equal to #4.	
		(6) 5/64 Thick Jacket of Belt Neoprene	
		(7) 1.045" Maximum O.D. - 1" Minimum O.D. - .266" Wire Diameter - .752" Diameter Under Braid, 8.4#/10 Feet of Cable	
	4	Machine Screw #4-40 x ½" Fillister Head Steel, Cadmium Plated	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	4

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
HIGH VOLTAGE PLUG CLAMP	5N5443	March 7, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N5411	1	Adjusting Screw	
5N5421	1	Handle	
5N5433	1	Base	
		Parts of Final Assembly:	
	1	Nut 3/8 - 16 Cast Brass Wing Type	
	2	Cold Rolled Steel - 5/16" Diameter	
		x 3 3/8" - Cadmium Plated	
	1	Washer 13/32" I.D. Minimum - 15/32"	
		I.D. Maximum - 13/16" O.D. Mihimum -	
		1 1/8" O.D. Maximum x 1/16" Thick,	
		Brass	

MASTER PARTS LIST

JOB		JOB NO	PAGE
M.T.A. MARK I		204-14	5
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER 1	5N1475-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 7, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS.
5N2152	4	Housing Hinge Bracket	
5N4682	1	Conduit - Bypass Condenser Box	
5N9531	1	Name Plate	
5N6971	1	High Voltage Plug Grounding Strip	
5N6981	1	High Voltage Grounding Strip Support	
5G9842	2	Tie Rod - Front Truss	
5G9861	2	Washer - Front Truss	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	6
ASSEMBLY: OSCILLATOR PANEL NUMBER 1	ASSEMBLY NO. 5N1475-1	LISTED BY: F. Patton	
SUB-ASSEMBLY: PARTS OF FINAL ASSEMBLY	SUB-ASSEMBLY NO.	DATE: March 7, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	2	1" - #12 Tomic Conduit Nut	
	2	1" - #12 Tomic Conduit Lock Nut	
	4	Nut 5/8 - 11 Hex., Steel, Cad. Plated	
	4	Washer-5/8 Mfg. Std., Cadmium Plated	
	2	Nut ¼-20 Hex., Steel, Cadmium Plated	
	2	Capscrew ¼-20 x 3/4" Hex. Head, Steel Cadmium Plated	
	1	Machine Screw #8-32 x 5/8" Round Head Brass	
	1	Capscrew ¼-20 x 1½" Socket Head Steel, Cadmium Plated	
	1	Capscrew ¼-20 x 1 3/4" Hex. Head, Brass	
	3	Machine Screw ¼-20 x ½" Round Head, Brass	
	4	Parker-Kalon Type "F" #8-32 x 3/8" Round Head, Cadmium Plated	
	2	Capscrew - ¼-20 x 1½" Hex. Head, Steel, Cadmium Plated	
	4	Hex. Lock Nut, ¼-20 Steel, Cad. Plated	
	4	Washer ¼" (3/4" O.D. x 1/16") Steel Cadmium Plated	
	1	Grounding Hook	
	1	Machine Screw ¼-20 x 2½" Round Head, Brass	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	7

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1485~~ 6G4785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
ELECTRICAL GUTTER BOX	5N4204-1	March 7, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1423	1	Electrical Gutter Box Number One	
	12	Rivet 3/32" x 1/4" Long-Countersunk	
		Head-Aluminum Alloy	
	6	Airloc Floating Receptacle #99967-C.098	
		3/4"	
5N1433	1	Electrical Gutter Box Number Two	
	20	Rivet 3/32" x 1/4" Long-Countersunk Hd.	
		Aluminum Alloy	
	10	Airloc Floating Receptacle #99967-	
		C.098 - 3/4"	
5N1443	1	Electrical Gutter Box Number Three	
	18	Rivet 3/32" x 1/4" Long Countersunk	
		Head - Aluminum Alloy	
	9	Airloc Floating Receptacle #99967-	
		C.098 - 3/4"	
5N1453	1	Electrical Gutter Box Number Four	
5N1463-1	1	Electrical Gutter Box Number Five	
	30	Rivet 3/32" x 1/4" Long-Countersunk	
		Aluminum Alloy	
	15	Airloc Floating Receptacle #99967 -	
		C.098 - 3/4"	
5N1352	1	Electrical Gutter Cover Number One	
	6	Round Head Stud No. 99899 - 2.160	
		Wing Type (Airloc)	
	6	Cross Pin (Airloc) No. 99785-2	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	7.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1185~~ 6G4785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
ELECTRICAL GUTTER BOX	5N4204	March 7, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1362	1	Electrical Gutter Cover Number Two	
	4	Airloc Round Head Stud #W 99899-2-.160	
		Wing Type	
	4	Airloc Cross Pin #99785-2	
5N1372	1	Electrical Gutter Cover Number Three	
	5	Airloc Wing Type Round Head Stud -	
		#W 99899-2-.160	
	5	Airloc Cross Pin #99785-2	
5N1382	1	Electrical Gutter Cover Number Four	
	6	Airloc Wing Type Round Head Stud -	
		#W 99899-2-.160	
	6	Airloc Cross Pin #99785-2	
5N1392	1	Electrical Gutter Cover Number Five	
	4	Airloc Wing Type Round Head Stud	
		#W 99899-2-.160	
	4	Airloc Cross Pin #99785-2	
5N1402	1	Electrical Gutter Cover Number Six	
	10	Airloc Wing Type Round Head Stud	
		#W 99899-2-.160	
	10	Airloc Cross Pin #99785-2	
5N1412	1	Electrical Gutter Cover Number Seven	
	5	Airloc Wing Type Round Head Stud	
		#W 99899-2-.160	
	5	Airloc Cross Pin #99785-2	

[redacted] UCRL 1849xxxxxxxx

MASTER PARTS LIST

JOB: M.T.A. MARK I		JOB NO.: 204-14	PAGE: 7.2
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO.: ~~5N1485~~64785	LISTED BY: F. Patton	
SUB-ASSEMBLY: ELECTRICAL GUTTER BOX	SUB-ASSEMBLY NO.: 5N4204	DATE: March 10, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly:	
	4	Machine Screw ¼-20 x ⅜" Round Head	
		Brass	
	4	Nut ¼-20 Hex. Brass.	

D-21(..

[redacted] RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	8
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO.: ~~5M1185~~ 64785	LISTED BY: F. Patton	
SUB-ASSEMBLY: CLAMP SPRING	SUB-ASSEMBLY NO.: 5G6814	DATE: March 10, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G7914	1	Clamp Spring and Retaining Tube Ass'y	
		Consisting of the Following Indented	
		Component Parts:	
5G6824	1	Clamp Spring Retainer Tube	
5G6843	1	Clamp Frame Spring	
5G6851	1	Clamp Spring Retaining Washer	
5G7161	1	Clamp Spring Retaining Ring	
5G6834	1	Clamp Bolt	
5G7151	1	Clamp Spring Bolt Lock Ring	
5G9501	1	Clamp Spring Bolt - Spacer	
		Parts of Final Assembly:	
	1	Capscrew ¼-20 x 5/8" Hex. Head, Steel	
		Cadmium Plated	

D-2164

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	9
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO.: ~~5H1485~~ 664785	LISTED BY: F. Patton	
SUB-ASSEMBLY: BIAS COMPARTMENT	SUB-ASSEMBLY NO.: 5G7904	DATE: March 10, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G6524	1	Frame	
	3	Airloc Floating Stud Receptacle	
		1" - No. 99947-P.130	
	6	Rivets 1/8 x 5/16 - 100 Degree	
		Countersunk Head - A17-ST Aluminum	
		Alloy	
5G6533	1	Frame Cover	
	1	Sash Lift-Sargent Bar #N412 Nickel	
		Plate	
	4	Machine Screw #8-32 x ¼" Flat Head, Brass	
5G6543	1	End Cover	
	2	Airloc Wing Type Round Head Stud	
		#W 99835-3-330	
	1	Airloc Wing Type Round Head Stud	
		#W 99835-2-.230	
	3	Airloc Cross Pin #99836	
5G6551	1	Shield	
5G7821	2	Resistor Support Bracket	
5G7831	1	Transformer Spacer	
5G7841	1	Anode Lead	
5G7851	4	Resistor Support Bracket Number Two	
5G7861	1	Tube Insulator	
5G7871	2	Filament Lead	
5G7882	1	Resistor Support Bar - Upper	
5G7892	1	Tube and Transformer Bracket	
5G9663	1	Resistor Support Bracket - Lower	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	9.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5H1485~~ 5G4785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
BIAS COMPARTMENT	5G7904	March 10, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6A2761	1	Anode Lead Clip	
		Parts of Final Assembly:	
	1	Diode Tube No. X-493	
	1	Electro-Filament Transformer E4905;	
		60 Cycle; 5 Volt; 3 Amp Secondary;	
		1000 Working Volts	
	1	Microswitch #BZE-2RQ	
	4	Ohmite Resistor #0914, 5000 OHM,	
		200 Watt-Fixed	
	1	Ohmite Adjustable Resistor #1364;	
		5K-200W	
	2	Standoff Insulator #1041; 1" Diameter	
		x 2" Long	
	7	Capscrew 1/4-20 x 3/4" Hex. Head, Brass	
	9	Nut 1/4-20 Hex., Brass	
	7	Lock Washer 1/4" - SAE	
	7	Machine Screw 1/4-20 x 3/4" Round Head,	
		Brass	
	8	Machine Screw #10-24 x 1/2" Round Head,	
		Brass	
	3	Machine Screw #10-24 x 3/4" Round Head,	
		Brass	
	10	Nut #10-24 Hex., Brass	
	4	Machine Screw #8-32 x 5/8" Round Head,	
		Brass	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	9.2

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5E11485~~ 6G4785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
BIAS COMPARTMENT	5G7904	March 10, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	4	Machine Screw #8-32 x ½" Round Head, Brass	
	12	Machine Screw #8-32 x 3/8" Round Head, Brass	
	20	Nut #8-32 Hex., Brass	
	6	Washer #8 SAE or Equal	
	1	Machine Screw #6-32 x 3/8" Round Head, Brass	
	2	Machine Screw #8-32 x 1½" Round Head, Brass	
	1	Eimac #HR 7 Heat Radiator	
	1	Johnson Socket Number 213	
	1	Adalet Pem-Male - ½" Size	
	1	Insulator-Standoff 3/4" Diameter x 2" Long #E-1013	
	2	Machine Screw #10-32 x ½" Round Head, Brass	
	3	Washer #10, Brass, Mfg. Standard	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	10

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5W1856~~ 6G4785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
HIGH VOLTAGE AND PLUG BOX	5G7984	March 11, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G7996-1	1	High Voltage and Plug Box	
	42	Rivet 1/8 x 3/8 - 100 Degree	
		Countersunk Head A17-ST Aluminum	
	14	Rivet 1/8" x 3/8" Flat Head A17-ST	
		Aluminum	
	18	Airloc Floating Stud Receptacle	
		#99947-P.130	
5G8003	2	Side Cover	
	12	Airloc Wing Type Round Head, Stud	
		#W 99835-2-.230	
	12	Airloc Cross Pin #99836	
5G8013	1	Top Cover	
	6	Airloc Floating Stud Receptacle	
		#99947-P.130-1"	
	12	Rivet 1/8 x 5/16 - 100 Degree Counter-	
		sunk Head A17-ST Aluminum Alloy	
5G8023	1	Plug PG23 and Terminal Strip TS8 Ass'y.	
	1	Cannon Plug Connection SK-U4-32SL	
	5 ft.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	3	R. B. #94 Stakon Solder Lug	
	1	Jones Terminal Strip #3-142	
5G8071	2	Terminal Strip TS6 and TS8 Support	
5G8081	2	Terminal Strip TS7 Support	

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	20-14	10.2

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5K1485~~ 5G4785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
HIGH VOLTAGE AND PLUG BOX	5G7984	March 11, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G8033	1	Plug PG22 and Terminal Strip TS7	
		Assembly	
	1	Cannon Plug Connection #2831	
	2	Stakon Solder Lug #RB 94	
	1	Terminal Strip - Jones #2.-142	
	3 ft.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
5G8043	1	Plug - PG21 and Terminal Strip TS8	
		Assembly	
	1	Cannon Plug Connection #RSK-U4-SL31	
	5 ft.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	3	Stakon Solder Lug - #RB-94	
	1	Terminal Strip - Jones #3-142	
5G8053	1	Plug PG25 and Terminal Strip TS9	
		Assembly	
	1	Cannon Plug Connection - AN3102A-28-	
		3P	
	1	Terminal Strip - G.E. 4 Point-	
		16EB1AB1	
	16"	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	32"	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	3	#8 Ring Tongue Solderless Lug for	
		#10 Screw - AM-P #8	

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	10.2
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER TWO	~~5K21856~~ 6A785	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
HIGH VOLTAGE AND PLUG BOX	5G7984	March 11, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G8063	1	Plug PG26 and Terminal Strip TS10	
		Assembly	
	1	Cannon Plug Connection - FK-19-32-SL	
	20ft.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	1	Terminal Strip - W.E. 22 Point	
5G8091	1	Terminal Strip TS10 Support	
5G8101	1	Terminal Strip TS9 Support	
5G8111	1	Four-Hole Fanning Strip (TS9)	
5G8121	2	Three-Hole Fanning Strip (TS6 & TS8)	
5G8131	2	Two-Hole Fanning Strip (TS7)	
5G8141	1	Wiring Ring	
5G8151	2	Microswitch Spacer	
10Z1713-2	1	22-Hole Fanning Strip	
10Z1831	2	Wiring Ring	
6A1263	1	Plug 38 and Terminal Strip TS14	
		Assembly	
	1	Cannon Plug #RGK-M3-31SL	
	2	Stakon Solder Lug #RB-94	
	1	Terminal Strip-Jones 2-142	
	3 ft.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	4	Machine Screw #6-32 x ¼" Round Head	
		Brass	
6A1251	1	Oscillator High Voltage Plug Box	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	10.3
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO.: ~~5N1485~~ 6G4785	LISTED BY: F. Patton	
SUB-ASSEMBLY: HIGH VOLTAGE AND PLUG BOX	SUB-ASSEMBLY NO.: 5G7984	DATE: March 11, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly:	
	2	Microswitch #BZE-2RQ	
	20	Machine Screw #6-32 x ½" Fillister	
		Head, Steel, Cadmium Plated	
	20	Nut #6-32 Hex. Steel, Cadmium Plated	
	16	Machine Screw #8-32 x ½" Fillister	
		Head, Steel, Cadmium Plated	
	16	Nut #8-32 Hex. Steel, Cadmium Plated	
	20	Machine Screw #8-32 x 3/4" Fillister	
		Head, Steel, Cadmium Plated	
	20	Washer, #8 SAE - Brass	
	6	Machine Screw ¼-20 x ½" Round Head,	
		Steel, Cadmium Plated	
	6	Nut ¼-20 Hex. Steel, Cadmium Plated	
	3	½" Adalet - Pem	
	4	Machine Screw #6-32 x ¼" Fillister	
		Head, Steel, Cadmium Plated	
	4	Washer #6 SAE - Brass	
	3	2" Adalet - Pem	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	11
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1856~~G4785	LISTED BY: F. Patton	
SUB-ASSEMBLY: GRID COMPARTMENT	SUB-ASSEMBLY NO. 5N7506	DATE: March 11, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1563	1	Grid Compartment Upper Side Panel -	
		Long	
	6	Rivet 1/8 x 3/8 Long, Round Head,	
		A17-ST Aluminum Alloy	
	3	Airloc Floating Stud Receptacle	
		#99947-P.130	
	6	Rivet 1/8" x 1/4" Long-Flat Head	
		A17-ST Aluminum Rivet	
5N1553	1	Grid Compartment Upper Side Panel -	
		Short	
	2	Airloc Floating Stud Receptacle	
		#99947-P.130	
	4	Rivet 1/8" x 1/4" Long-Flat Head	
		Aluminum A17-ST	
5N1533	1	C-1 Shield	
	1	Airloc Floating Stud Receptacle	
		#99947-P.130	
	2	Rivet 1/8"x 1/4" Long-Flat Head	
		Aluminum A17-ST	
5N1543	1	Grid Compartment Lower Side Panel	
	5	Airloc Floating Stud Receptacle	
		#99947-P.130	
	10	Rivet 1/8" x 1/4" Long-Flat Head	
		Aluminum A17-ST	
5N6342	1	Grid Compartment Brace	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	11.1
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1185~~ 5G4785	LISTED BY: F. Patton	
SUB-ASSEMBLY: GRID COMPARTMENT	SUB-ASSEMBLY NO. 5N7506	DATE: March 11, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1574	1	Grid Compartment Cover	
	10	Airloc Round Head Wing Type Stud	
		#W 99835-230	
	10	Airloc Cross Pin #99836	
5N4783	1	Grid Lead Support Bracket	
5N4762	1	Grid Lead Outer Conductor	
5N4751	1	Grid Lead Insulation	
5N4741	1	Grid Lead	
5N4771	1	Grid Lead Support Insulation	
5G9614	1	Cathode Vacuum Tube Voltmeter Assembly	
5G9641	1	Voltage Divider Condenser Disc	
5G9651	1	Voltage Divider Condenser Stud	
5G9623	1	Chassis	
	3	B. F. Goodrich Rivnut #BR-10K-	
		136 (#10-32)	
6A2752	1	Shield	
6A9741-1	1	Spring Contact	
6A9741-2	1	Spring Contact	
6A9751	1	Shield Insulator	
6A9761	1	Shield Screw	
		Parts of Final Assembly of 5G9614	
		Assembly:	
	1	1 mh 1A RF Choke-Miller #4534	
	1	.01 mf, 1200 Volt, Mica Capacitor	
		MC-50-SX-53 mmf.	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	11.2
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N11856G4785~~	LISTED BY: F. Patton	
SUB-ASSEMBLY: GRID COMPARTMENT	SUB-ASSEMBLY NO. 5N7506	DATE: March 12, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly of 5G9614	
		Continued:	
	1	Hammerlund Variable Capacitor	
		MC-50-SX-53 mmf	
	11	20 mmf, 7.5 KV Ceramic Condenser -	
		Erie 741A-NPO	
	1	Amphenol Socket R-SS8	
	1	Millen 1006 - ¼" Shaft Lock	
	9	Machine Screw #6-32 x ¼" Round Head,	
		Brass	
	2	Machine Screw #5-40 x 3/4" Round Head	
		Brass	
	2	Nut #6-32 Hex. - Brass	
	9	Machine Screw #6-32 x 3/16" Round,	
		Head, Brass	
	5	Machine Screw #6-32 x 3/8" Round	
		Head, Brass	
	1	Stakon Pressure Terminal RC-71	
		¼" Hole For No. 16 Wire-Ring Tongue	
	16"	#16 Rockbestos Firewall Hookup Wire	
	1	Stakon Pressure Terminal RC-114	
		¼" Hole For No. 16 Wire-Spade Lug	
	3	Machine Screw #10-32 x ½" Round Head	
		Brass	
	2	Nut #10-32 Hex. - Brass	
	4	Mach. Screw #10-32 x 3/8" Fill. Hd.-Brass	

D-211

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	11.3
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1856~~ 6A785	LISTED BY: F. Patton	
SUB-ASSEMBLY: GRID COMPARTMENT	SUB-ASSEMBLY NO. 5N7506	DATE: March 12, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9533	1	Socket Assembly	
5G9581	1	Grounding Strap	
5G9551	2	Connecting Stud	
5G9571	1	Socket Insulation	
5G9541	1	Paralleling Connector	
5G9561	1	Tube Pin Clamp	
5N4701	1	Pin Clamp Holder	
		Parts of Final Assembly:	
	1	.01 mf, 1200 V, Mica Capacitor,	
		Sprague Type 12	
	4	Nut #8-32 Hex. - Brass	
	1	Machine Screw #8-32 x ½" Fillister	
		Head, Brass	
	1	Johnson Socket #213	
6A3111	1	Resistor Lead	
6A3121	1	Coax Termination Bracket	
6A3131	1	Shield Termination Clamp	
6A3141	1	Shield Termination Ring	
6A9131	1	Grid Lead	
6A9141	1	Condenser Bracket	
6A9151	1	Condenser Strap	
6E1161	1	Terminal Block Spacer	
6A3171	1	Connection Strap to Termination Plate	

D-21(a)

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	11.4
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1856~~ 4785	LISTED BY F. Patton	
SUB-ASSEMBLY: GRID COMPARTMENT	SUB-ASSEMBLY NO. 5N7506	DATE March 12, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly of 5N7506	
		Grid Compartment:	
	1	RCA 6W4GT Diode	
	1	Electro-Transformer E4905 - 110-115	
		Volt Primary, 60 Cycle, 5 Volt, 30	
		Amps Secondary, 1000 Working Volts	
	1	1 mh, 1 Amp RF Choke-Miller #4534	
	2	Condenser 1000 PF, 10 KV, U1C Ceramic	
		Feedthru	
	1	Resistor #0219, 25K-25W Ohmite	
	1	Binding Post #DF-30BC Superior Electric	
		Company	
	1	Adalet - Pem 3/4"	
	As Req.	Coaxial Cable RG8/U - Amphenol	
	3	Machine Screw 1/4-20 x 5/8" Round Head,	
		Brass	
	4	Solderless Terminals - AM-P #31118	
		Standard B-Ring Tongue Type #10 Stud	
		to #10 Wire	
	4	Machine Screw #10-32 x 3/8" Round	
		Head, Brass	
	2	Machine Screw #10-32 x 1/2" Round Head,	
		Brass	
	8	Machine Screw #10-32 x 1" Round Head,	
		Brass	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	11.5

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1056~~ 4785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
GRID COMPARTMENT	5N7506	March 12, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly of 5N7506	
		Grid Compartment, Continued:	
	16	Machine Screw #10-32 x 5/8" Round	
		Head, Brass	
	10	Nut #10-32 Hex. - Brass	
	6	Washer No. 10 - 1/32" Thick, Brass	
	2	Washer 1/4" - 1/32" Thick, Brass	
	18	Machine Screw #6-32 x 3/8" Round Head,	
		Brass	
	12	Nut #6-32 Hex. - Brass	
	As Req.	#16 Rockbestos Type ACA Firewall	
		Hookup Wire	
	As Req.	#10 Rockbestos Type ACA Firewall	
		Hookup Wire	
	1	Transformer-Stancor P-6134	
	2	Terminal-Whittaker #R-2-11	
	5	Plastic Cable Clamp - 3/8" I.D.-Adel	
	2	Plastic Cable Clamp - 3/16" I.D.-Adel	
	1	Microswitch - BZE-2RQ	
	1	Adalet - 1/2" (Female)	
	2	Adalet - 1/2" (Male)	
	4	Machine Screw #8-32 x 1/2" Round Head,	
		Brass	
	6	Machine Screw #8-32 x 1/2" Round Head,	
		Brass	
	4	Nut 1/4-20 Hex. - Brass	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	11.6

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1856~~64785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
GRID COMPARTMENT	5N7506	March 12, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	14	Nut #8-32 Hex. - Brass	
	2	Washer #8 - Brass	
	2	Standoff Insulator 3/8" O.D. x 1½"	
	4	Gasket - Rubber 3/8" O.D. x 5/32" I.D.	
		x 1/16" Thick	
	1	Terminal Switch - Jones 2-142	
	1	Bias R.F. Choke	

MASTER PART LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	12

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N3485~~ 664785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
R.F. PROBE ASSEMBLY	5N3484	March 13, 1952

PART NO.	NO REQ'D.	DESCRIPTION	REMARKS
5N3381	1	Conductor Housing Retainer	
5N3391	1	Retainer Clamp	
5N3421	2	Resistor Holder	
5N3451	1	Conductor	
	1	Amphenol Coax Plug No. 83-1R	
	12"	Coax Conductor - RG 14/U	
5N3461	1	Conductor Housing	
5N3472	1	Base Plate	
6A8771	1	Spacer	
6E9352	1	Loop	
6E9361	1	Loop Clamp	
6E9371	1	Standoff Support	
6E9381	1	Conductor Coupling	
6G1631	1	Probe Position Stop	
		Parts of Final Assembly:	
	4	Machine Screw #5-40 x 1/4" Round Head, Brass	
	2	Machine Screw #6-32 x 3/8" Round Head, Brass	
	2	Machine Screw #6-32 x 3/4" Round Head, Brass	
	7	Machine Screw #10-24 x 3/8" Round Head, Brass	
	1	Machine Screw #10-24 x 5/8" Round Head, Brass	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	12.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1585~~ 6A785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
R. F. PROBE ASSEMBLY	5N3484	March 12, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly of 5N3484	
		Assembly, Continued:	
	2	Machine Screw #10-24 x 3/4" Round	
		Head, Brass	
	2	Machine Screw #10-24 x 3/8" Flat Head,	
		Brass	
	1	Nut #10-24 Hex., Brass	
	1	Setscrew #5-40 x 1/4" Socket Head, Cup	
		Point, Steel	
	2	Alsimag Standoff 3/8" Diameter x 1 3/4"	
		Type No. E-1710	
	1	Resistor, 50 OHM - Globar Type "CX"	
	1	Amphenol Plug No. M-359-CPH,	
		49192-90 Degrees	
	1	Hollow Head #5-40 Setscrew	

MASTER PARTS LIST

JOB	JOB NO	PAGE
M.T.A. MARK I	204-14	13

ASSEMBLY	ASSEMBLY NO	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1485~~6G4785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
AIR LINE PARTS OUTLET ASSEMBLY NUMBER ONE	~~6G1523~~	March 13, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~6G1532~~	~~1~~	~~Thermometer Block~~	
~~6G1542~~	~~1~~	~~Thermometer Support~~	
~~6G1552~~	~~1~~	~~Thermometer Shield~~	
~~C2441~~	~~1~~	~~Lab. Nut (UCRL Standard) Brass~~	
~~C2531~~	~~3~~	~~R. L. Tube Fitting Washer~~	
		~~Parts of Final Assembly:~~	
	~~3~~	~~Elbow - 90° - ½" Chase #407~~	
	~~1~~	~~Adapter ½c x ⅛c SPS - Chase #403~~	
	~~1~~	~~Hansen Plug B4T 25 - ½" M.P.T.~~	
	~~1~~	~~Thermometer B-K-H 0° - 110° C.~~	
6G4809	1	AIR LINE	
6G2941	1	AIR LINE CORK GASKET	
6G2951	1	AIR LINE COVER	
6G4811	1	AIR LINE SUPPORT	
6G4821	1	AIR LINE HOLDER	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	14
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1856~~ 64785	LISTED BY: F. Patton	
SUB-ASSEMBLY: CHOKE LEAD THROUGH BUSHING	SUB-ASSEMBLY NO. 6A8333	DATE: March 13, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
3V2861	1	Corona Shield	
3V2651	1	Insulator Sleeve	
3V1761	2	Ground Shield Clamp	
3V1771	1	Ground Shield Insulator	
10Z1212-64	2	Lead Washer	
5N4051	1	Spark Gap Assembly	
5N4061	1	Rod	
5N4071	1	Holder	
	1	Nut - 3/8-24 NF - Hex., Brass	
5N8491	1	Garter Spring	
6A8322	1	Plug Socket	
6A8341	1	Tie Rod	
6A8351	1	Spacer	
6A8361	1	Connector	
6A8661	2	Contact Ring Tie Rod	
6A8671	2	Contact Ring Insulator Sleeve	
6E2601	As Req.	Washer	
		Parts of Final Assembly:	
	1	Nut ¼-20 - Hex. - Brass	
	1	Nut 5/16 - 18 - Hex. - Brass	
	1	Capscrew 5/16-18 x 1" Hex. - Brass	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	15

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5M1856~~G4785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
CHOKE BYPASS CONDENSER	6A8292	March 13, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6A8302	1	Condenser Plate	
6A8312	1	Condenser Lead	
		Parts of Final Assembly:	
	4	Centralab Ceramic Capacitor Type	
		DA-859 250 mmf, 20 KVDC, Copper Ends	
	4	Machine Screw #10-32 x 3/8" Round	
		Head, Brass	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	16

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5N1685~~ 694785	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
COMPONENT PARTS		March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G8282	2	Connecting Bolt	
5G8251	4	Connecting Bolt Washer-Concave	
5G8261	4	Connecting Bolt Washer-Convex	
5N4651	1	Air Manifold End Flange Gasket	
5N1762	1	Air Duct Coupling Flange	
5N1773	1	Flow Switch Box Cover	
5N1783	1	Flow Switch Box	
5N1793	2	Flow Switch Box Gasket	
5N1804	1	Air Manifold Gasket	
5N1816-1	1	Air Manifold	
	4	Rivet 1/8" Round Head A17-ST	
		Aluminum	
	16	Rivnut #10-32 B.F.Goodrich	
		#BR-10K-136	
	2	Rivnut ¼-20 B.F.Goodrich #25-211	
	1	Self-Tapping Screw #10-24 x 3/8"	
		Parker-Kalon Type "A" Round Head	
5N1822	1	Air Manifold Switch Window	
5N1832	1	Air Manifold Switch Window Frame	
5N1842	2	Air Manifold Switch Window Gasket	
5N3672	1	Air Manifold End Gasket	
5N3682	1	R. F. Probe Box Cover	
	6	Airloc Wing Type Round Head Stud	
		#W 99899-2-.160	
	6	Airloc Cross Pin #99785-2	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	16.1
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5N1485~~ 6G4785	LISTED BY: F. Patton	
SUB-ASSEMBLY: COMPONENT PARTS	SUB-ASSEMBLY NO.	DATE: March 14, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3693	1	R. F. Probe Box	
	12	Rivet 3/32" x 1/4" Countersunk Head	
		A17-ST Aluminum	
	6	Airloc Floating Receptacle 3/4"	
		#99967-C.098	
5N4111	1	Conduit Number One	
5N4211	1	Air Flow Switch Conduit	
5N4221	2	Microswitch Door Conduit	
5N4663	1	Air Manifold End Flange	
5N4671	1	R. F. Probe Conduit	
5N7091	1	Air Flow Switch (Coral Designs #1034)	
5N7631	1	Adjusting Stud	
5N7641	2	Adjusting Stud Rubber Washer	
5N2633	1	Air Distribution Manifold	
6A5011	3	Female Connector	
5N2642	1	Air Distribution Manifold Gasket	
6A5001	3	Female Connector Gasket	
6E5771	1	High Voltage Spark Gap Plate	
6G1483	1	Modified Flowrator-.3 to 3 Gallons	
	2	Male Union - ½" Chase #402M	
~~6G1491~~	~~1~~	~~Flowrator Support~~	
	~~4~~	~~Machine Screw ¼-20 x 1 1/8" Round~~	
		~~Head, Brass~~	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	17
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~XM1-85~~ 64785	LISTED BY: F. Patton
SUB-ASSEMBLY: PARTS OF FINAL ASSEMBLY	SUB-ASSEMBLY NO.	DATE: March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Adalet - ½" Size - Male	
	1	Adalet - 1" Size - Male	
	1	Condenser - .001 mf, 20 KV, Mica	
		Sangamo #G3-2021	
	1	#1 Rubber Stopper With Two 1/8"	
		Diameter Holes 1" Long	
	8	Tomic Nut ½" - #10	
	2	Elbow ½" T and B 90°	
	2	Microswitch BZE-2RQ	
	1	1" Adalet Nut	
	2	1" Adalet Locknut	
	1	Elbow 1" T and B - #4252	
	1	Conduit Coupling - 1" #312	
	2	Tomic Nut 1" - #12	
	46	Machine Screw #6-32 x 1 5/8" Brass	
		Round Head	
	4	Nut #6-32 Hex. - Brass	
	13	Machine Screw #10-32 x 3/8" Round	
		Head, Steel, Cadmium Plated	
	8	Machine Screw #10-32 x ½" Flat Head	
		Steel, Cadmium Plated	
	8	Machine Screw #10-32 x ½" Round Head	
		Steel, Cadmium Plated	
	8	Machine Screw #10-32 x 5/8" Round	
		Head, Steel, Cadmium Plated	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	17.1
ASSEMBLY: OSCILLATOR PANEL NUMBER TWO	ASSEMBLY NO. ~~5W1856~~ 64785	LISTED BY: F. Patton
SUB-ASSEMBLY: PARTS OF FINAL ASSEMBLY	SUB-ASSEMBLY NO.	DATE: March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	6	Machine Screw #10-32 x 7/8" Round Head, Steel, Cadmium Plated	
	8	Nut #10-32 Hex. Steel, Cadmium Plated	
	~~4~~ 5	Capscrew ¼-20 x 5/8" Hex. Head, Brass	
	8.2 ~~86~~	Machine Screw ¼-20 x ½" Round Head Brass	
	~~8~~ 9	Machine Screw ¼-20 x 5/8" Round Head, Brass	
	~~46~~ 46	Machine Screw ¼-20 x 3/4" Round Head Brass	
	69 ~~58~~	Washer ¼-Mfg. Standard, Brass	
	124 ~~126~~	Nut ¼-20 Hex. - Brass	
	1	Capscrew 5/16-18 x 3/4" Hex. Head, Brass	
	1	Nut 5/16-18 Hex. - Brass	
	6	Locknut ½-13 Hex. Steel, Cadmium Plated	
	6	Capscrew ½-13 x 2" Steel, Cadmium Plated, Hex. Head	
	~~4~~	Washer ½" Mfg. Standard, Steel, Cadmium Plated	
	4	Nut ½-13 Hex. Steel, Cadmium Plated	
	6	Nut 1"-8 Hex. - Steel	
	4	Washer 1" Mfg. Standard - Steel, Cadmium Plated	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	17.2

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER TWO	~~5M1185~~ 64785	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
PARTS OF FINAL ASSEMBLY		March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	4	Bevel Washer ⅛" Size - Steel, Cadmium Plated	
	4	Machine Screw ¼-20 x 1¼" Round Head, Brass	
	1	Adalet ½" Size - Female	
	1	Adalet 1" Size - Female	
	4	Machine Screw ¼-20 x 5/16" Round Head, Brass	
	~~8~~	Machine Screw ¼-20 x 7/8" Round Head, Brass	
	1	Flexible Conduit ½" Size	
	1	Plug - T and B "Titebite"	
	1	Conduit Washer - ½"	
	4	MACH. SCREW - 3/8-16 X 5/8" HEX. HEAD - BRASS	
	4	JAM NUT - 3/8-16 HEX. - BRASS	
	4	WASHER - 3/8 MFG. STANDARD STEEL - CAD. PLATED	
	2	3/4" MALE ADALET PEM 3	
	2	3/4" ADALET LOCKNUT	
	1	TRANSFORMER - 125 KVA - 60 CPS SINGLE PHASE - 820 PRIMARY 1040 SECONDARY (ELECTRO ENGINEERING WORKS)	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	18

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER THREE	~~5N1595~~ 6G 4865	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
GRID INLET ASSEMBLIES		March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3052	1	½" Grid Inlet Assembly Number One	
	1	Wrought Female Adapter-Style #403	
		Chase - ½c to ½c	
	1	Cast 45° Elbow - Chase #C-407 AS	
		½" c	
	1	Close Nipple - ½"-14 NPT x 1 1/8"	
		Brass	
	1	Roylyn Coupling #1032-8S	
5N3042	1	½" Grid Inlet Assembly Number Two	
	1	Elbow - 45° Cast-Chase #C-407A	
		½c x ½c	
	1	Wrought Coupling-Chase #401-½c to ½c	
5N3062	1	½" Grid Inlet Assembly Number Three	
5N3032	1	½" Grid Inlet Assembly Number Four	
	1	Cast 90° Elbow - Chase #407 -	
		½c x ½c	
	1	Wrought Female Adapter- Chase #403	
		½c x 3/8 NPT	
	1	Hansen Coupling B3-T20-3/8-18 NPT	
	1	Wrought Coupling - Chase #401	
		½c x ½c	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	19

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR, PANEL NUMBER THREE	~~5N2956~~4865	F. Patton
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
GRID OUTLET ASSEMBLIES		March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3282	1	½" Grid Outlet Assembly Number One	
	1	Wrought Female Adapter - Chase	
		#403 - ½c to ½-14 NPT	
	1	Close Nipple ½" NPT 1 1/8" - Brass	
	1	Roylyn Nipple #1032-8S	
5N3252	1	½" Grid Outlet Assembly Number Two	
	1	Elbow-Wrought Copper - 90° ½c x ½c	
		Chase #407	
	1	Adapter-Wrought-Female ½c to 3/8	
		NPT - Chase #403	
	1	Bushing - Brass - 3/8" MPT to 1/4"	
		FPT	
C2491	1	UCRL Union - 3/8" x 1/4"	
C2541	1	UCRL Washer - 3/8"	
5N3293	1	½" Grid Outlet Assembly Number Three	
	1	Elbow - Copper-Chase #407 - 90°	
		½c to ½c	
	1	Adapter - Wrought - Female	
		½c x 3/8-18 NPT - Chase #403	
	1	Flared Fitting Union Nut 41-FS	
		Short Length - Imperial	
	1	Bushing - Brass - 3/8 MPT x 1/4 FPT	
C2491	1	R.L. Union - 3/8" x 1/4"	
C2541	1	R.L. Washer - 3/8"	
5N3272	1	½" Grid Outlet Assembly Number Four	
	1	Elbow-90° Wrought Copper ½c x ½c Chase #407	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	19.1
ASSEMBLY: OSCILLATOR PANEL NUMBER THREE	ASSEMBLY NO.: ~~5N1495~~ 6GA865	LISTED BY: F. Patton	
SUB-ASSEMBLY: GRID OUTLET ASSEMBLIES	SUB-ASSEMBLY NO.:	DATE: March 17, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Flared Fitting Union Nut-Imperial	
		#41-FS ½" Tubing	
5N3262	1	½" Grid Outlet Assembly Number Five	
5N3012	1	½" Grid Outlet Assembly Number Six	
	1	Flared Fitting Union Nut-Imperial	
		#41-FS - ½" Tubing	
	1	Coupling - ½c to ½c Chase #401	
5N3023	1	½" Grid Outlet Assembly Number Seven	
	1	Elbow 90° - Wrought - ½c x ½c	
		Chase #407	
	1	Flared Fitting Union Nut-Imperial	
		#41-FS - 5/8" Tubing	
	1	Adapter - Wrought Female ½c x ½c	
		Chase #403	
	1	Hansen Quick Disconnect Coupling	
		#B4-T25-½-14 NPT	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	20
ASSEMBLY: OSCILLATOR PANEL NUMBER THREE	ASSEMBLY NO.: 5N1495664865	LISTED BY: F. Patton	
SUB-ASSEMBLY: 1" BEAMING CYLINDER INLET	SUB-ASSEMBLY NO.:	DATE: March 18, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3142	1	1" Beaming Cylinder Inlet Assembly #1	
	1	Adapter - Wrought Female - 1"c x 1"	
		11½" NPT - Chase #403	
	1	Close Nipple 1" NPT x 1½" - Brass	
	1	Nipple - Roylyn #1032-16S	
5N3152	1	1" Beaming Cylinder Inlet Assembly #2	
	1	Street Elbow 45° Wrought Copper	
		Chase #407-AS-1"	
	1	Elbow 45° Wrought Copper 1" Chase	
		#407A-1"c x 1"c	
5N3162	1	1" Beaming Cylinder Inlet Assembly #3	
	1	Coupling - Wrought Copper 1"c x 1"c	
		Chase #401	
5N3173	1	1" Beaming Cylinder Inlet Assembly #4	
	1	Elbow 90° Wrought Copper 1"c x 1"c	
		Chase #407	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	21
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5N1495~~664865	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
1" BEAMING CYLINDER OUTLET		March 18, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3112	1	1" Beaming Cylinder Outlet Assembly	
		Number One	
	1	Adapter-Wrought Female 1"c x 1"	
		11½ NPT Chase #403	
	1	Close Nipple 1" NPT x 1½" - Brass	
	1	Nipple - Roylyn #1032-16S	
5N3082	1	1" Beam Cylinder Outlet Assembly	
		Number Two	
	2	Elbow 90° - Wrought Copper 1"c x 1"c	
		Chase #407	
5N3102	1	1" Beaming Cylinder Outlet Assembly	
		Number Three	
5N3092	1	1" Beaming Cylinder Outlet Assembly.	
		Number Four	
	1	Coupling - Wrought Copper 1"c x 1"c	
		Chase #401	
5N3072	1	1" Beaming Cylinder Outlet Assembly	
		Number Five	
	1	Adapter - Wrought Female 1"c x ½"-	
		14 NPT - Chase #403	
	1	Elbow 90° - Cast 1"c x 1"c - Chase	
		#407	
	1	Hansen Plug #B4-T25-½-14 NPT	
	1	Wrought Coupling 1"c x 1"c	
		Chase #401	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	22

ASSEMBLY	ASSEMBLY NO	LISTED BY
OSCILLATOR PANEL NUMBER THREE	~~5N1956~~64865	F. Patton

SUB-ASSEMBLY	SUB ASSEMBLY NO.	DATE
DRAIN ASSEMBLY		March 18, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3182	1	Drain Assembly Number One	
	1	Flush Type Fitting Reducer	
		Chase #417 - 1¼"c x 1"c	
	1	Adapter - Wrought Female - Copper	
		1¼"c x 1¼-11½" NPT - Chase #403	
	1	Close Nipple 1¼"-11½" NPT x 1 5/8"	
		Brass	
	1	Roylyn Nipple #1032-20S	
5N3202	1	Drain Assembly Number Two	
	2	Elbow - Cast 45° - 1c x 1c Copper	
		Chase #407A	
5N3192	1	Drain Assembly Number Three	
	1	Coupling - Wrought Copper - Chase	
		#401 - 1"c x 1"c	
5N3212	2	Drain Assembly Number Four	
	2	Elbow 90° Wrought Copper 1"c x 1"c	
		Chase #407	

MASTER PARTS LIST

JOB	JOB NO	PAGE
M.T.A. MARK I	204-14	23

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER THREE	~~5N1405~~ 664865	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
2" PLATE INLET		March 18, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3243	1	2" Plate Inlet Assembly	
	1	Elbow 90° Cast 2"c x 2"-11½" NPT	
		Chase #C-408	
	1	Street Elbow 90° - 2"c x 2"c	
		Chase #C-407S	
	2	Cast Elbow 90° - 2"c x 2"c	
		Chase #C-407	
	1	Close Nipple 2"-11½" NPT x 2", Brass	
	1	Nipple - Roylyn #1032-32S	
5N3223-2	1	2" Plate Inlet Assembly Number Two	
	1	Elbow 90° Reducing 2"c x 1½"c	
		Chase #407	
	1	Elbow 90° Cast 2"c x 2"c - Chase #407	
5G8601	1	Hansen Male Plug	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	24
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5N1956~~G4865	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
2" PLATE OUTLET		March 18, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3132	1	2" Plate Outlet Assembly Number One	
	1	Adapter - Cast - Female 2"c x 2"-	
		11½" NPT - Chase #C-403	
	1	Close Nipple 2"-11½" NPT x 2" Brass	
	1	Nipple - Roylyn #1032-32S	
5N3122-2	1	2" Plate Outlet Assembly Number Two	
5G8601	1	Hansen Male Coupling	
	1	Elbow 90° Wrought Copper 2"c x 1½"c	
		Chase #407	

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	25
ASSEMBLY: OSCILLATOR PANEL NUMBER THREE	ASSEMBLY NO.: ~~5N1495~~ 6G8865	LISTED BY: F. Patton	
SUB-ASSEMBLY: TRUCK AND WHEELS	SUB-ASSEMBLY NO.:	DATE: March 18, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1071	2	Support Wheel Assembly	
	4	New Departure Ball Bearing #8026	
5N1124	2	Support Wheel	
5N1061-1	1	Wheel Bearing Spacer	
5N1101	2	Guide Wheel Assembly	
	4	New Departure Ball Bearing #8026	
5N1134	2	Guide Wheel	
5N1061-2	2	Guide Wheel Spacer	
5N1142	2	Guide Wheel Axle	
5N1112	2	Support Wheel Axle	
5N1152	4	Wheel Elevation Lock Plate	
5N1081	2	Adjustable Bearing	
5N1091-1	2	Wheel Spacer - Support Wheel	
5N1091-2	2	Wheel Spacer - Guide Wheel	
5G8675	1	Truck Frame	
5E3641	6	½" Square Nut Retainer	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	26

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER THREE	~~5N1495~~	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
FLANGE INLET		March 19, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~6G1433~~	~~1~~	~~Flange Inlet Assembly Number One~~	
	1	Elbow 90° ½c x ½c Chase #407	
	1	Elbow 45° ½c x ½c Chase #407A	
	1	Coupling ½c x ½c Chase #C-401	
	1	Adapter ½c x 3/8 SPS - Chase #403	
	1	Hansen Plug B3-T-20-3/8 MPT	
~~6G1442~~	~~1~~	~~Flange Inlet Assembly Number Two~~	
~~6G1452~~	~~1~~	~~Flange Inlet Assembly Number Three~~	
	1	Coupling ½c x ½c - Chase #C-401	
	1	Crane Globe Valve Number One - ½"	
	1	Male Adapter ½" - Chase #C-404	
~~6G1462~~	~~2~~	~~Flange Inlet Assembly Number Four~~	
	1	Elbow 45° - ½"c x ½"c - Chase #407A	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A., MARK I		204-14	27
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5N1495~~	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
FLANGE OUTLET		March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~6G1503~~	~~1~~	~~Flange Outlet Assembly Number Two~~	
	1	Elbow 45° - ½c x ½c - Chase #407A	
	1	Elbow 90° - ½c x ½c - Chase #407	
~~6G1513~~	~~1~~	~~Flange Outlet Assembly Number Three~~	
	1	Elbow 90° - ½"c x ½"c - Chase #407	
	1	Coupling - ½c x ½c - Chase #C-401	
~~6G1522~~	~~1~~	~~Flange Outlet Assembly Number Four~~	
	1	Elbow 90° - ½c x ½c - Chase #407	
~~6G1562~~	~~1~~	~~Four Tube Support~~	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	28
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5H1495~~ 6G4865	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
HUB AND STUB		March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9116-1	1	Transmission Line Connection Frame and Hub - Cathode	
5G7356	1	Transmission Line Connection Frame - Cathode	
5G8824	1	Hub	
	2	Flared Tube Female Coupling ½" IPS Imperial #46F	
	2	Nipple ½" NPT - 3½" - Brass	
	8	Capscrew ½-13 x 1" Hex. Head, Steel Cadmium Plated	
	8	Washer ½" SAE Steel, Cadmium Plated	
	4	Street Elbow 90° Brass - 125# Crane	
5G9116-2	1	Transmission Line Connection Frame and Hub - Anode	
5G8824	1	Hub	
	2	Flared Tube Female Coupling ½" IPS Imperial #46-F	
	2	Nipple ½" NPT - 3½" Brass	
	8	Capscrew ½-13 x 1" Hex. Head, Steel Cadmium Plated	
	8	Washer ½" SAE Steel, Cadmium Plated	
	4	Street Elbow 90° Brass - 125# Crane	
5G8741	12	Stub Contact Finger Ring Clamping Strip	
5G8751	16	Hub Contact Finger Ring Clamping Strip	

D-211

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	29
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5N1495~~ 6G9865	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N4092	2	Microswitch Conduit Number Two - Anode	
5N4102	1	Microswitch Conduit Number Three - Anode	
5N4122	1	Microswitch Conduit Number Two - Cathode	
5N7181	1	Two Tube Support	
5N1524	1	Ground Plane Clamp Plate	
6A6151	1	Conduit Hanger	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	30
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER THREE	~~5W1195~~ 694865	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
PARTS OF FINAL ASSEMBLY		March 14, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	8	Tomic Conduit Nut ½" - #10	
	2	Tomic Conduit Coupling ½" - #310	
	1	Elbow ½" T and B - Short	
	2	Open Elbow ½" - 90° Crouse-Hinds Type "LBY"	
	2	Microswitch - BZE - 2RQ	
	4	Capscrew ½-20 NF x 1¼" Hex. Head, Brass	
	20	Capscrew 3/8-16 x 2¼" Hex. Head, Brass	
	8	Bevel Washer 3/8 Bolt - Steel, Cadmium Plated	
	2	Capscrew 3/8-16 x 3/4" Hex. Head, Brass	
	4	Jamnut 5/8-11 Hex. Steel, Cadmium Plated	
	4	Nut 5/8-11 Hex. Steel, Cadmium Plated	
	1	Machine Screw ¼-20 x 1½" Round Head, Brass	
	3	Machine Screw ¼-20 x 1½" Round Head, Brass	
	8	Capscrew 3/8-16 x 3" Hex. Head, Brass	
	4	Machine Screw #6-32 x 1½" Round Head, Brass	
	36	Machine Screw ¼ 20 x 3/4" Round Head, Brass	
	37	Nut ¼-20 Hex. - Brass	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	30.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER THREE	~~5N1495~~ 649865	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
PARTS OF FINAL ASSEMBLY		March 14, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	28	Washer 3/8" Mfg. - Standard, Steel	
	3	Pipe Clamp - Steel - Cadmium Plated	
	44	Machine Screw #10-24 x 3/8" Round Head, Brass	
	44	Nut #10-24 Hex. - Brass	
	2	PIPE CAP-½" - 416 C. CHASE	

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	31
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
SAFETY VALVE	5N4534-1	March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N4521	1	Safety Valve Sub Assembly	
	1	Safety Valve 3/4" - 50 P.S.I. Type	
		#1485 Consolidated	
	2	Close Nipple 3/4" NPT x 1 3/8" Brass	
	2	Reducer 1" x 3/4" NPT Brass - 125#	
	1	Part of Cast Male Union 1"c x 1" NPT	
		Chase #C-402-M	
	1	Part of Cast Male Union Elbow 1"c x	
		1" NPT Chase #C-409-U	
	1	Rubber Gasket 3/4" I.D. x 1/16" x 1"	O.D.
	1	Gas Stove Cock ¼" NPT #298 Brass, Crane	
	1	Globe Valve ½" NPT #1240 - Crane	
	1	Cross 1"c x 1"c x 1"c x 1"c Chase #C-435	
	1	Tee 1"c x 1"c x 1"c - Chase #411	
	1	Tee 1"c x 1"c x 3/8"c - Chase #411	
	2	½" Wrought Male Union 1"c x 1" NPT	
		Chase #C-402-M	
	1	Cast Union ½"c x ½" NPT-Chase #C-402M	
	1	Hose Bushing 3/4" HPT x ½" IPT-#94-A	
		Crane	
	1	Plug ½" Square Head Solid Brass	
	2	Flush Reducer 1"c x ½"c - Chase #417	
	1	Street Adapter - Wrought Female	
		½"c x ½" NPT Chase #403-S	
	1	Plug ½" NPT - Brass	
	1	½" Union Coupling ½"c x ½" NPT, Imperial	#48F

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	31.1

ASSEMBLY	ASSEMBLY NO	LISTED BY
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton

SUB-ASSEMBLY	SUB ASSEMBLY NO.	DATE
SAFETY VALVE	5N4534-1	March 19, 1952

PART NO.	NO. REQ'D	DESCRIPTION	REMARKS
	1	Adapter - Wrought Female 3/8"c x ¼" NPT - Chase #403	
	1	Male Hose Nipple ½" NPT x 3/4" HPT Brass, #91-A Crane	
	2	Hose Coupling 3/4" HPT - Brass Crane #17C-A	
	2	#12 Gage Soft Copper Bare Wire	
	1	3/4" Garden Hose-Rubber - 24" Long	
	1	Elbow 45° - 1"c x 1"c - Chase #407A	
	1	Elbow 90° - 1"c x 1"c - Chase #407	
	1	Close Nipple ¼" Brass x 7/8" Long	
	1	Adapter - Wrought Female - Chase #403 1"c x ½" NPT	
	1	Hansen Coupling #R4-T25-½-14 NPT	
	1	Street Elbow 90° - 1"c x 1"c - Chase #407S	
	2	Rubber Hose (3/4") Washer	

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO	PAGE
M.T.A. MARK I		204-14	32
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
BYPASS CONDENSER	5G9033	March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9042	1	Spacer	
5G9062	6	Clip For 1200 Volt Condenser	
5G9072	4	Clip For 2500 Volt Condenser	
5G9082	1	Plate	
		Parts of Final Assembly	
	1	Terminal Board - 6 Point G.E.	
		#16E B1AB4	
	3	.01 mfd 1200 V Capacitor-Mica	
		Sprague Type 12	
	2	.01 mfd 2500 V Capacitor-Mica	
		Cornell Dubilier Type 9LS	
	5	Machine Screw #10-32 x ¼" Round Head,	
		Brass	
	2	Machine Screw #10-32 x 2" Round Head,	
		Brass	
	14	Machine Screw #6-32 x ¼" Round Head,	
		Brass	
	6	Nut #6-32 Hex. Brass	

RICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	33
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
1" BEAMING CYLINDER FILTER	5N4692	March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Filter - Cuno Type EG-5-1"-11½" NPT	
		Inlet and Outlet	
	1	Part of Union Cast Male 1"c x 1"-11½"	
		NPT - Chase #C-402-M	
	1	Sediment Faucet 3/4" NPT x 3/4"-11½"	
		NPT	

PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	34

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
PRESSURE GAGE CONNECTION	5N4302	March 19, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Union Nut ¼" O.D. - Brass, Imperial	
		#41-F	
	1	Female Coupling ¼" O.D. x ¼"-18" NPT	
		Brass - Imperial #46-FH	
	1	Union Nut ¼" O.D. x ¼"-18" NPT - Brass	
		Imperial #41-FH	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	35

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
1". BEAMING CYLINDER INLET #5	5N4082	March 19, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Elbow 90° - 1"c x 1"c - Chase #407	
	1	Cast Union Elbow - 1" x 1"-11½" NPT	
		Chase #C-409-U	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	36

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
LIFT TRUCK POSITION LOCK	5N1992	March 19, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1982-1	1	Lock Screw	
	1	Washer ¼" Mfg. Standard - Steel,	
		Cadmium Plated	
	1	Capscrew ¼-20 x ½" Hex. Head, Steel,	
		Cadmium Plated	
	1	Valve Handle - 5" Diameter Crane	
		Style "A" - 5½" Diameter, Square Hole	

[redacted]

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	37
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6A7071	1	Grid Spark Gap Port Cover	
5N1972	2	Bumper Pad	
5N2003	3	Transfer Pad	
5N2012	3	Transfer Pad Shim	
6A3281	2	Alteration To Flange	
5N4313	1	Alteration To Anode Water Filter	
	1	Cuno Filter - Type EGLF - 3	
	3	Sediment Faucet 3/4" NPT x 3/4"-11½" HPT	
5N8781	2	Cuno Filter Gasket	
5G8251	4	Washer - Concave	
5G8261	4	Washer - Convex	
5G8282	2	Connecting Bolt	
5G9004	1	Bypass Condenser Box	
	4	Rivnut - B.F. Goodrich #10K 136	
5G9013	1	Bypass Condenser Box Cover	
5G9023	1	Bypass Condenser Box Cover Gasket	
5N7631	1	Adjusting Stud	
5N7641	2	Washer - Adjusting Stud - Anode	
6A1171	1	Safety Cap	
6A7513	1	Clamp Bolt	
	1	Nut - 1" - 8" Hex. - Steel	
6A7524	1	Clamp Retaining Tube	
5N4711	1	Spark Gap Rod	
5N4721	1	Spark Gap Clamp Plate	
5N4731	1	Spark Gap Chuck Clamp	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	38
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB ASSEMBLY NO.	DATE	
DRAIN ASSEMBLY NUMBER FIVE	5N4133	March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Cast Elbow 90° - 1"c x 1"c Chase	
		#C-407	
	1	Cast Union Elbow 1" - Chase #C-419-U	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	39
ASSEMBLY: OSCILLATOR PANEL NUMBER FOUR	ASSEMBLY NO: 5N1505-1	LISTED BY: F. Patton	
SUB-ASSEMBLY: BOX RIVETED SUB-ASSEMBLY	SUB-ASSEMBLY NO.: 5G9145-1	DATE: March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9155-1	1	Box Panel Number One	
5G9165-1	1	Box Panel Number Two	
5G9465-1	1	Box Panel Number Three	
5G9475	1	Box Panel Number Four	
5G9486	1	Box Top Panel	
5G9496-1	1	Box Bottom Panel	
5G7746	1	Left Side Clamp Frame	
5G7756	1	Right Side Clamp Frame	
5G9524	1	Water Lines Support	
5G9816	1	Box Front Truss	
5G9851	2	Spacer - Front Truss	
5G9676	1	Box Bottom Frame	
		Parts of Final Assembly	
	62	Rivet - ½ Button Head x 15/16-A17-ST4	
		Aluminum	
	4	Rivet - ½" Countersunk Head x 15/16"	
		A17-ST4 Aluminum	
	28	Rivet - ¼" Button Head x 1 3/16"	
		A17-ST4 Aluminum	
	6	Rivet - ¼" Countersunk Head x 1 3/8"	
		A17 - ST4 Aluminum	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	40
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
CLAMP SPRING	5G6814	March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G7914	1	Clamp Spring and Retaining Tube Ass'y.	
5G6824	1	Clamp Spring Retainer Tube	
5G6843	1	Clamp Frame Spring	
5G6851	1	Clamp Spring Retaining Washer	
5G7161	1	Clamp Spring Retaining Ring	
5G6834	1	Clamp Bolt	
5G7151	1	Clamp Spring Bolt Lock Ring	
5G9501	1	Clamp Spring Bolt Spacer	
		Parts of Final Assembly	
	1	Capscrew ½-20 x 5/8" Hex. Head, Steel,	
		Cadmium Plated	

[redacted]

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	41
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
PARTS OF FINAL ASSEMBLY		March 19, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	30	Machine Screw ¼-20 x ½" Round Head, Brass	
	36	Machine Screw ¼-20 x 3/4" Round Head, Brass	
	12	Socket Head Screw 5/16-18 x 3/4" Steel, Cadmium Plated	
	2	Capscrew ¼-20 x 3/4" Round Head, Steel Cadmium Plated	
	1	Capscrew ¼-20 x 7/8" Round Head, Steel, Cadmium Plated	
	4	Machine Screw #10-32 x 1" Round Head, Steel, Cadmium Plated	
	8	Capscrew ¼-20 x 3/4" Socket Head, Steel, Cadmium Plated	
	12	Nut 5/16-18 Hex. - Cadmium Plated, Steel	
	32	Washer ¼ SAE - Steel, Cadmium Plated	
	1	Washer ¼" Mfg. - Standard Steel Cadmium Plated	
	15	Nut ¼-20 Hex. Steel, Cadmium Plated	
	1	#3 Half Pipe Clamp	
	1	0-100 PSI - ¼" MPT Marsh Quality Gage	
	12	Machine Screw 5/16-18 - 1¼" Flat Head Steel, Cadmium Plated	
	4	Capscrew 3/8-16 x ½" Socket Head, Steel, Cadmium Plated	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	41.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR PANEL NUMBER FOUR	5N1505-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
PARTS OF FINAL ASSEMBLY		March 19, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	6	Capscrew ⅜-13 x 2" Hex. Head, Steel Cadmium Plated	
	4	Jam Nut ⅜-13 Hex. Head, Steel, Cadmium Plated	
	4	Nut ⅜-13 Hex. Steel, Cadmium Plated	
	4	Washer ½" Mfg. Standard Steel, Cadmium Plated	
	8	Capscrew 5/8-11 x 1 3/4" Hex. Head, Steel, Cadmium Plated	
	8	Washer 5/8 Mfg. Standard, Steel, Cadmium Plated	
	8	Nut 5/8-11 Hex. Steel, Cadmium Plated	
	6	Nut 1"-8" Hex. Steel, Cadmium Plated	
	4	Washer 1" Mfg. Standard, Steel, Cadmium Plated	
	4	Machine Screw #10-32 x 5/8" Round Head - Brass	
	36	Nut ¼"-20 Hex. - Brass	
	4	Machine Screw ¼-20 x 1¼" Round Head, Brass	
	4	Bevel Washer ¼" Cast Iron, Cadmium Plated	
	35	Washer ¼" Brass, Mfg. Standard	
	12	Washer 5/16" (11/16" O.D.) Steel, Cadmium Plated	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	42

ASSEMBLY	ASSEMBLY NO.	LISTED BY
OSCILLATOR TOP PANEL	5N1515-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
TOP COVER	5N4866	March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N2754	1	Top Cover	
5N6354	1	Top Cover Outer Gasket	
	24	Camlock Wing Head Stud Assembly	
		#4002-16W	
	24	Camlock Grommet #4002-N	
	24	Camlock Washer A10L-4002	
	72	Clinch Rivet #90-9/64" Diameter x ½"	
		Long	
	36	Burr-Copper #8 - 31/64" O.D.	
	1	Door Pull "Stanley" #1257-4	
	4	Machine Screw ¼-20 x ½" Flat Head,	
		Brass	
	4	Nut ¼-20 Hex. - Brass	
	8 ft	Metex - #MTC - 57 - Monel Net	

D-211a

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	43

ASSEMBLY	ASSEMBLY NO	LISTED BY
OSCILLATOR TOP COVER	5N1515-1	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
COMPONENT PARTS		March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N4233	1	Anode Line Connection - Microswitch Conduit	
5N6841	1	Cover Microswitch Conduit	
5N5392	1	Microswitch Box	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	44
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
OSCILLATOR TOP PANEL	5N1515-1	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
PARTS OF FINAL ASSEMBLY		March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	4	½" - #10 Tomic Nut	
	2	½" - Thomas and Betts 90° Conduit Elbow	
	1	Microswitch - BZ-2RQ66	
	1	Machine Screw #10-32 x ½" Flat Head, Brass	
	3	Machine Screw #10-32 x ½" Round Head, Brass	
	2	Nut #6-32 Hex. - Brass	
	2	Machine Screw #6-32 x 1" Round Head, Brass	
	4	Nut #10-32 Hex. - Brass	
	2	Washer #6-32 - Brass	
	2	½" Conduit Locknut	
	28	Nut ¼-20 Hex. - Brass	
	28	Machine Screw ¼-20 x 1" Round Head, Brass	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	45
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
ELEVATION OF BOX WITH DOORS REMOVED	~~5N6685~~ 6G2985	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~5G9973~~	~~2~~	~~Wheel Cover Gasket~~	
~~5G9974~~	~~2~~	~~Wheel Cover~~	
5N1741	1	Anode Line Termination Spark Gap	
5N2974-1	1	Ground Plane Filling Angle	
5N2974-2	1	Ground Plane Filling Angle	
5N2984-1	1	Ground Plane Support	
5N2984-2	1	Ground Plane	
5N3321	2	Grid Hose Connection Washer	
6A5001	3	Female Connector Gasket	
6A9981	2	Spark Gap Rod	
6E1091	2	Spark Gap Plate	
6E1101	2	Spark Gap Jam Nut	
C2541	6	R.L. Union ½"	
C2551	6	R.L. Washer ½"	
C2491	2	R.L. Washer 3/8"	
C2451 ~~C2541~~	2	R.L. Washer 3/8"	
C2521	6	R.L. UNION - ½	
C2531	2	R.L. WASHER - ¼"	
C2441	2	R.L. NUT - ¼"	
C2461	2	R.L. UNION - ¼"	
6E9641-5	1	INTERNAL WATER CONNECTION - ¼" I.D.	
6E9641-6	1	INTERNAL WATER CONNECTION - ¼" I.D.	
5N3651-5	2	INTERNAL WATER CONNECTION - ½" I.D.	
6G2051-1	1	INTERNAL WATER CONNECTION - ⅜" I.D.	
6G3021	1	INTERNAL WATER CONNECTION - ⅜" I.D.	
6G3031	1	INTERNAL WATER CONNECTION - ⅜" I.D.	

D-21(a)

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	45.1
ASSEMBLY: ELEVATION OF BOX WITH DOORS REMOVED	ASSEMBLY NO.: 6G2985	LISTED BY: F. Patton	
SUB-ASSEMBLY: COMPONENT PARTS	SUB-ASSEMBLY NO.:	DATE: June 2, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6A6621	1	Internal Water Connection 3/8" I.D.	
6G2031	2	Internal Water Connection 3/8" I.D.	
6G2041-1	2	Internal Water Connection 1/2" I.D.	
6G2041-2	1	Internal Water Connection 1/2" I.D.	
6A8386	1	Anode Choke Assembly	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	46

ASSEMBLY	ASSEMBLY NO.	LISTED BY
ELEVATION OF BOX WITH DOORS REMOVED	~~5N6685~~6G2985	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
ANODE WATER COUPLING	5G9873	March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G6692	2	Anode Hose Coupling	
5N4391	2	Spring Retainer	
5N4402	2	Electrolysis Electrode Spider	
5N7681	2	Electrode Tip	
	4	Breeze Hose Clamp	
	5 ft.	B. F. Goodrich "Cascade" Hose 1½"	
		(Firehose) Two-Ply	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	47
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
ELEVATION OF BOX WITH DOORS REMOVED	~~5M6685~~6A2985	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
AIR HOSE	6A5032	March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6A5021	2	Male Connector	
	2	Aero Seal Clamp #M28	
	1	Airtron Hose 1 3/4" x 36" Type 1A2	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	48

ASSEMBLY	ASSEMBLY NO.	LISTED BY
ELEVATION OF BOX WITH DOORS REMOVED	5N56256G2985	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
HAND HOLE COVER	5N3962	March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N3942	1	Hand Hole Cover Disc	
5N3952	1	Hand Hole Cover Disc Spring	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	49

ASSEMBLY	ASSEMBLY NO.	LISTED BY
ELEVATION OF BOX WITH DOORS REMOVED	5N66850G2985	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
PARTS OF FINAL ASSEMBLY		March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	~~4~~	Capscrew ¼-20 x 1 3/4" Silicon Bronze Socket Head	
	~~24~~	~~Capscrew ¼-20 x 3/4" Hex. Head, Brass~~	
	38	Machine Screw ¼-20 x 3/4" Round Head, Brass	
	76	Washer ¼" Mfg. Standard - Brass	
	4	Dowel Pin ¼" Diameter x 3/8" Steel, Cadmium Plated	
	2	Street Elbow 90° - ½" NPT - Brass	
	1	Nipple 3/8" NPT x 2½" Brass	
	1	Elbow 90° - 3/8" NPT - Brass	
	6	Bushing - ½" MPT x 3/8" FPT - Brass	
	4	Machine Screw #10-32 x 3/8" Round Head, Brass	
	38	Machine Screw ¼-20 x 1" Round Head, Brass	
	1	Bushing 3/8" MPT x ¼" FPT - Brass	
	1	Bushing 1/2" MPT x 1/4" FPT - Brass	
	2	HANSEN FITTING - B3-S20 - 3/8 MPT	
	2	BRASS TEE - 3/8" x 3/8" x 1/8"	
	2	BARBED INSERT 3/8 I.P.T. x 3/8" #1670 EASTMAN	
	2	HOSE CLAMP - 5/8"	
	2	HOSE CLAMP - 3/4"	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	50
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
ELEVATION OF BOX WITH PANEL #2 REMOVED	~~5N5455662775~~	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 21, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~6A2141~~	~~1~~	~~Filament Lead Choke Gasket~~	
~~662041-1~~	~~2~~	~~Internal Water Connection ½" x ½"~~	
C2501	4	R.L. Union Nut	
C2511	4	R.L. Union Hose Barb	
~~662041-2~~	~~1~~	~~Internal Water Connection ½" x ½"~~	
C2501	2	R.L. Union Nut	
C2511	2	R.L. Union Hose Barb	
~~5N3631~~	~~1~~	~~Grid Flange To Grid Ring Water~~	
		Connection	
5N3301	1	Grid Hose Connection ½"	
	1	Hansen Fitting B45-27-½" Barb	
~~5N3641~~	~~1~~	~~Cathode Line Termination To Grid~~	
		Flange	
5N3311	1	Grid Hose Connection 3/8"	
	1	Hansen Coupling B3-S22-3/8" Bore	
		3/8" Hose Stem - Brass	
~~5N3651-1~~	~~1~~	~~Internal Water Connection ½" x ½"~~	
	6	Hansen Coupling #B4-S27-½" Bore	
		½" Hose Stem - Brass	
~~5N3651-3~~	~~1~~	~~Internal Water Connection ½" x ½"~~	
	2	Hansen Coupling #B4-S27-½" Bore	
		½" Hose Stem - Brass	
~~5N3651-4~~	~~1~~	~~Internal Water Connection ½" x ½"~~	
	2	Hansen Coupling #B4-S27-½" Bore	
		½" Hose Stem - Brass	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	50.1
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
ELEVATION OF BOX WITH PANEL #2 REMOVED	~~5N5455~~ 6G2775	F. Patton	
SUB-ASSEMBLY	SUB ASSEMBLY NO.	DATE	
COMPONENT PARTS		March 21, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
~~5N3661-1~~	~~1~~	~~Internal Water Connection 3/8" to 3/8"~~	
	2	Hansen Coupling #B3-S22-3/8" Bore	
		3/8" Stem - Brass	
~~5N3661-2~~	~~2~~	~~Internal Water Connection 3/8" to 3/8"~~	
	4	Hansen Coupling #B3-S22-3/8" Bore	
		3/8" Stem - Brass	
~~682031~~	~~2~~	~~Internal Water Connection~~	
~~5G7334~~	~~1~~	~~Filament Lead Choke~~	
~~6A8386~~	~~1~~	~~Anode Choke~~	
~~6A8371~~	~~2~~	~~Retaining Nut~~	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	51
ASSEMBLY: ELEVATION OF BOX WITH PANEL #2 REMOVED	ASSEMBLY NO.: ~~5N5455~~6G2775	LISTED BY: F. Patton	
SUB-ASSEMBLY: PARTS OF FINAL ASSEMBLY	SUB-ASSEMBLY NO.:	DATE: March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	~~8~~32	Capscrew ¼-20 x 3/4"Hex. Head, Brass	
	96 ~~14~~	Machine Screw #10-32 x ½" Round Head, Brass	
	12	CAPSCREW-1/4-20 X 3/4 SOCKET HEAD-SILICON BRONZE	
	2	CAPSCREW-1/4-20 X 1" SOCKET HEAD-SILICON BRONZE	
	8	CAPSCREW-3/8-16 X 1" HEX. HEAD-BRASS	
	14	CAPSCREW-3/8-16 X 1 3/8 HEX. HEAD-BRASS	
	6	CAPSCREW-1/2-13 X 1 1/4" SLOTTED HEAD-BRASS	
	3	CAPSCREW-1/2-13 X 2 1/4 HEX. HEAD-BRASS	
	6	SETSCREW-1/2-13 X 2" SOCKET HEAD-STEEL-CAD. PL.	
	6	COTTER PIN-1/8 X 1 1/4" STEEL-CAD. PLATED.	
	6	SQUARE NUT-1/2" STEEL-CAD. PLATED	
	6	NUT-1/2-13 HEX.-BRASS	
	3	WASHER-1/2" MFG. STANDARD-BRASS	
	48	CAPSCREW-3/8-16 X 1" SOCKET HEAD-STEEL-CAD. PLATED	
	2	HANSEN PLUG-B3-T20-3/8-18 NPT	
	72	MACH. SCREW #8-32 X 1/2" ROUND HEAD-BRASS	
	16	MACH. SCREW #1/4-20 X 5/8" FLAT HEAD-BRASS	
	14	PARKER-KALON #8-32 X 3/8" TYPE "F" ROUND HEAD	
	10	CAP SCREW-5/16 X 18 X 7/8" HEX. HEAD-BRASS	
	3	PIPE PLUG-3/8-18 NPT-SQUARE HEAD	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	52
ASSEMBLY: SECTION THRU BOX LOOKING TOWARD PANEL #4	ASSEMBLY NO.: ~~5N9885~~6G2775	LISTED BY: F. Patton	
SUB-ASSEMBLY: TUBE	SUB-ASSEMBLY NO.: ~~5N9895~~6G2755	DATE: April 14, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N9944	1	Ring Sub-Assembly	
5N9961	1	Grid Ring Water Tube Connector	
6A1111	4	Shield Ring Guide Pin	
	32	Heli-Coil Insert #1185-4-BN-3/8"	
		Long ¼-20	
5G9124	1	Anode Shield Assembly	
5G8854	1	Inner Condenser Ring	
5G8984	1	Inner Manifold	
5G8614	1	Air Duct	
5G8992	1	Fixed Spark Gap	
6A5011	2	Female Connector	
	1	Machine Screw #8-32 x ½" Flat Head,	
		Brass	
6A1724	1	Shield Ring Assembly	
6A1734	1	Shield Support Ring	
6A1744	1	Shield	
6A1754	1	Cooling Ring	
	12	Machine Screw #6-32 x ¼" Flat Head,	
		Brass	
	12	Machine Screw #6-32 x ½" Round Head,	
		Brass	
	32	Heli-Coil Insert #1191-3B For #10-32	
	32	Heli-Coil Insert #1185-4BN For ¼-20	
6A1763	8	Contact Fingers	
6A1773	1	Spring Retainer Ring	
6A1161	1	Eye Bolt	

D-21(M)

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	52.1
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
SECTION THRU BOX LOOKING TOWARD PANEL #4	~~5N9885~~ 6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
TUBE	~~5N9895~~ 6G2755	April 15, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N9954	2	Grid Ring Split Flange	
6A8282	1	Tube Plug Socket	
5G7943 ~~6G7943~~	1	Anode Shield Clamp Band	
5N8491	1	Garter Spring	
	2	Nut 3/8-16 Hex. - Brass	
	2	Washer 3/8 - Mfg. Standard - Brass	
	32	Machine Screw #10-32 x 3/8" Round Head, Brass	
	64	Cap Screw ¼-20 x 1" Socket Head, Silicon Bronze	
	1	Beam Power Triode No. A2332/L (RCA)	
	2	Cap Screw ¼-20 x 1¼" Socket Head, Silicon Bronze	

[redacted]

D-211

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	53

ASSEMBLY	ASSEMBLY NO.	LISTED BY
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
TRANSFORMER ASSEMBLY	5H1126	April 15, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G4994	1	Terminal Box Assembly	
5G4983	1	Terminal Box Base	
5G4971	2	Condenser Spacer	
5G4961	2	Primary Bypass Conductor	
5G4941	1	Terminal Strip Insulator	
5G4951	1	Condenser Insulator	
5G4931	1	Condenser Holding Screw Nut	
5G4921	2	Condenser Holding Screw	
	3	R. F. Bypass Capacitor - Mica	
		.01 mfd - 1200 Working Volt - D.C.	
		Sprague Type 12	
	2	R. F. Bypass Capacitor - Mica	
		.01 mfd - 2500 Working Volt	
		D.C. - 5000Tested Volt D.C.	
		Cornell-Dublier No. 9	
	1	Four-Point Terminal Strip - Jones	
		#4-140	
	1	One Amp - 8AG - Little Fuse With	
		#372001 Postholder	
	1	Jack-Mallory Junior #701	
	2	Machine Screw #6-32 x 1" Round Head,	
		Brass	
	4	Machine Screw #6-32 x 5/8" Round	
		Head, Brass	
	4	Machine Screw #6-32 x ¼" Round Head,	
		Brass	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	53.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
TRANSFORMER ASSEMBLY	5H1126	April 15, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	6	Washer #6-Mfg. Standard - Brass	
	4	Nut #6-32 Hex. - Brass	
	6	Stakon Solder Lug #RB-9	
	1	Ring Tongue Solder Lug #33458 Amp	
	6	Lead-Terminal Strip	
	2 Ft.	Rockbestos Type ACA Firewall Hookup Wire #16	
5G5054	1	Coil and Core Assembly	
4K7414	1	Transformer Core	
5G5093	2	Insulating Cap Ring	
5G5031	6	Lower Wedge	
5G5021	6	Upper Wedge	
5G5061-3	1	Outer Insulator Ring - Outer	
5G5061-4	1	Outer Insulator Ring - Inner	
5G5061-1	1	Inner Insulator Ring - Outer	
5G5061-2	1	Inner Insulator Ring - Inner	
5G5011	12	Wedge Screw Locking Plate	
5G5001	2	Core Insulation Ring	
	12	Machine Screw #10-24 x 5/8" Round Head, Brass	
	12	Machine Screw #10-24 x 7/8" Round Head, Brass	
	12	#10 Steel Shakeproof Washer	
	2	Solder Lug 3/8" - 70 Amps	
	520 Ft.	Wire #10 (.102) Square-Double Cotton Wrapped - Copper	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	53.2

ASSEMBLY	ASSEMBLY NO.	LISTED BY
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
TRANSFORMER ASSEMBLY	5H1126	April 15, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	620Ft.	.003 x ½" Wide - Varnish Glass Tape	
5G5071	2	Primary Terminal Washer	
5G5081	2	Primary Terminal Bolt Washer	
5G5091	1	Secondary Terminal Insulator	
5G5101	1	Tank Window Gasket	
5G5411	1	Tank Window Clamp	
5G5421	1	Tank Window	
5G5431	1	Vent Screen	
5G5441	8	Tube Clamp Spring	
5G5451	20	Contact Finger Spring	
5G5461	6	Upper Wedge Spacer	
5G5471	6	Core Retaining Spring	
5G5481	1	Secondary Lead	
5G5491	2	Primary Terminal Insulator	
5G5501	2	Primary Terminal	
5G5511	8	Tube Flange Clamp	
5G5521	8	Clamp Locating Pin	
5G5531	1	Case Cover Sliding Door	
5G5542	1	Vent Cap	
5G5552	1	Name Plate	
5G5562	1	Vent	
5G5572	1	Thermometer Holder	
5G5582	1	Bearing Ring	
5G5593	1	Cover Ring	
5G5603	1	Terminal Box Cover	
5G5614	1	Transformer Tank	

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	53.3

ASSEMBLY	ASSEMBLY NO.	LISTED BY
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
TRANSFORMER ASSEMBLY	5H1126	April 15, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G5624	1	Transformer Case Cover	
5F1871	2	Lead Washer	
5F2041	6	Transformer Core Wedge	
5F2031	6	Transformer Tank Wedge	
5F1363	20	Contact Finger	
5F1623	1	Contact Finger Spacing Ring	
5F1483	1	Contact Finger Nut	
5F1491	20	Contact Finger Roller	
	8	Capscrew ½-13 x 1" Socket Head, Silicon Bronze	
	8	Capscrew ¼-20 x 1¼" Socket Head, Steel	
	4	Capscrew ¼-20 x 1" Socket Head, Steel	
	4	Capscrew ¼-20 x 3/8" Socket Head, Steel	
	7	Capscrew 3/8-16 x 1 3/4" Hex. Head, Brass	
	2	Capscrew 3/8-16 x 1½" Hex. Head, Brass	
	1	Capscrew ¼-20 x 2½" Hex. Head, Brass	
	4	Capscrew ¼-20 x ½" Hex. Head, Brass	
	2	Machine Screw ¼-20 x 3/4" Round Head, Brass	
	2	Machine Screw #10-24 x 1½" Round Head, Brass	
	12	Machine Screw #10-24 x 1" Round Head, Brass	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	53.4
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
TRANSFORMER ASSEMBLY	5H1126	April 15, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	2	Nut 5/8-11 Hex. - Brass	
	9	Machine Screw #6-32 x ½" Round Head,	
		Brass	
	3	Nut Eye Bolt 3/8-16 With Shoulder, 2"	
		Long Under Shoulder, 3/4" Eye Forged	
		Steel, Copper Plated	
	10	Nut 3/8-16 Hex. - Brass	
	2	Nut ¼-20 Hex. - Brass	
	8	Set Screw 3/8-16 x ½" Flat Point, Brass	
	5	Washer ¼" SAE - Brass	
	1	"O" Ring - 7" I.D. #PRP-6227-68	
	1	"O" Ring - 5" I.D. #PRP-6227-56	
	1	"O" Ring - 15½" I.D. x 16" O.D.	
		#PRP-6227-87	
	1	Waldes-Truarc Retaining Ring #5005-62	
	2	Pipe Plug 3/4" NPT - Brass -	
		Countersunk	
	1	Thermometer - Range 20 Degrees to	
		240 Degrees Fahrenheit Scale - 2½"	
		Stem Length, Weston Model #2781-½ NPT	
	20	Waldes Truarc Retaining Ring #5100-18	
	Gal. 1.6	New Transformer Oil	
	4	Set Screw ¼-20 x 5/8" Oval Point	
	4	Set Screw ¼-20 x ¼" Flat Point	

D-21(M)

RESTRICTED
MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. Mark I		204-14	54
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
Conversion Ground Plane	6G2636	June 3, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6G2594-2	1	Conversion Ground Plane Hole	
6G2563	1	Reinforcing Ring Assembly	
6G2473	1	Reinforcing Ring	
6G2494	1	Ring Support	
	7	Machine Screw #8-32 x 3/8" Flat	
		Head, Brass	
6G2465	1	Ground Plane	
6G2452	1	Cup Support Ring	
5N2805	1	Ground Plane Sub-Assembly	
5N2816	1	Frame	
5N2826	1	Frame Top Skin	
5N2836	1	Frame Bottom Skin	
	58	Cherry Rivet #CR162-6-20	
	55	Copper Rivet 1/8" Diameter, Flat	
		Head	
	51	Cherry Rivet #CR162-6-4	
	38	Cherry Rivet #CR162-6-6	
	4	Rivnut 1/4-20 #BR-25K-151	
	11	Rivnut #10-32 #BR-10K-201	
	8	Rivnut #10-32 #BR-10K-136	
	44	Rivnut #1/4-20 #BR-25K-211	
	12	Machine Screw #6-40 x 3/4" Flat	
		Head, Brass	
6G2741	1	Clamp Assembly	
6G2731	1	Backup Plug Nut	
6G2721	1	Plug	

RESTRICTED

[redacted]

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. Mark I	204-14	54.1

ASSEMBLY	ASSEMBLY NO.	LISTED BY
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
Conversion Ground Plane	6G2636	June 4, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Machine Screw $\frac{1}{4}$-20 x $1\frac{1}{2}$" Round Head, Stainless Steel	
	21	Machine Screw #8-32 x 3/8" Flat Head, Brass	
	6	Machine Screw #8-32 x $\frac{1}{4}$" Flat Head, Brass	

D-21(M)

[redacted]

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. Mark I	204-14	54.2

ASSEMBLY	ASSEMBLY NO.	LISTED BY
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
Conversion Ground Plane	6G2636	June 4, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6G2583	1	Voltage Divider Assembly	
6E3411	1	Base	
6E3421	1	Cap	
6E3441	4	Washer	
6E3462	1	Lower Contact Plate	
6G2542	1	Upper Contact Plate	
4K7111	2	Insulator	
6G4892	1	Spring Finger Strip	
	1	Washer $\frac{1}{2}$" Mfg. Standard, Brass	
	2	Jamnut $\frac{1}{2}$-13 Hex. Brass	

0-21(M)

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. Mark I	204-14	54.3

ASSEMBLY	ASSEMBLY NO.	LISTED BY
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
Conversion Ground Plane	6G2636	June 4, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6G3402	10	Grounding Assembly	
4E8043	10	Spring Clip Contact	
4E8051	20	Spring Clip Bar	
5G9982	10	Spring Contact	
5N1021	10	Condenser Handle	
5N1041	10	Lower Washer	
6E3391	20	Washer	
	10	100 mmf Condenser - Centralab	
	10	Machine Screw #10-32 x 3/8" Round	
		Head, Brass	

RESTRICTED

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. Mark I		204-14	54.4
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
Conversion Ground Plane	6G2636	June 4, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6G1392	1	Strap	
6E5401	4	Air Tube Strap	
6G4794	1	Air Tube	
6E8052	1	Tube Support	
6E8601	2	Tube Strap	
6E9343-1	2	Water Cooled Choke - Right Hand	
6E9343-2	2	Water Cooled Choke - Left Hand	
6E9563	1	Voltage Divider Choke	
6E9571	1	Voltage Divider Choke Bracket	
6E9641-1	1	Rubber Hose - ¼" I. D.	
6E9641-2	1	Rubber Hose - ¼" I. D.	
6E9641-3	1	Rubber Hose - ¼" I. D.	
6E9641-4	1	Rubber Hose - ¼" I. D.	
6E9682	1	Grid Tuning Tube Support	
6E9691	1	Grid Tuning Tube Support Set Screw	
6E9701	1	Tube Clamp	
6E9472	4	1000 mmf - 10 KV Ceramic - Erie #3688	
		DA-859	
6E4952	2	Grid Bias Choke L9	
	8	Nut #10-32 Hex. Brass	
	4	Machine Screw #10-32 x 5/8" Round	
		Head, Brass	
6G1402	1	Lead Strap	
6G1412	1	Anode Strap	
6G2092	1	Voltage Divider Lead	

D-21(N)

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. Mark I		204-14	54.5
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
Conversion Ground Plane	6G2636	June 4, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9533	1	Socket Assembly	
5G9581	1	Grounding Strap	
5G9551	2	Connector Stud	
5G9571	1	Socket Insulation	
5G9541	1	Paralleling Connector	
5G9561	1	Tube Pin Clamp	
5N4701	1	Pin Clamp Holder	
	1	Sprague Type 12 Capacitor-.01 mf,	
		1200 Volt	
	1	Machine Screw #8-32 x ½", Fillister	
		Head, Brass	
	4	Nut #8-32 Hex. Brass	
	1	Johnson Socket #213	

D-21(M)

[redacted]

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. Mark I	204-14	54.6

ASSEMBLY	ASSEMBLY NO.	LISTED BY
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
Conversion Ground Plane	6G2636	June 4, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
		Parts of Final Assembly:	
	8	Capscrew ¼-20 x 3/4" Round Head, Brass	
	6	Machine Screw #8-32 x 1" Round Head, Brass	
	11	Nut #8-32 Hex. Brass	
	10	Washer ¼" Mfg. Standard, Brass	
	9	Machine Screw #10-32 x 3/4" Hex. Head	
	9	Nut #10-32 Hex. Brass	
	2	Machine Screw #10-24 x ½" Round Head, Brass	
	2	Nut #10-24 Hex. Brass	
	5	Machine Screw ¼-20 x 5/8" Round Head, Brass	
	2	Set Screw #5-40 x 7/16" Cone Point Steel, Cadmium Plated	
	1	Jennings Tube - Type UCS 10 KV Capacity - Minimum 5 mmfd. - Maximum 200 mmfd.	
	14	Machine Screw #10-32 x 3/4" Round Head, Brass	
	2	Washer #10 Brass, Mfg. Standard	
	10	Hose Clamp 5/8" O.D. Hose, Brass	
	1	Ceramic Condenser 250 mmf, 2C KVDC	
	1	Nut 3/8-16 Hex. Brass	

D-21(M)

[redacted]

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. Mark I		204-14	54.7
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
Conversion Ground Plane	6G2636	June 4, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	3	Machine Screw ¼-20 x 3/4" Hex. Head, Silicon Bronze	
	1	Machine Screw - ¼-20 x ½" Flat Head, Brass	
	1	½" Adalet Pem - Male Thread	
	1	½" Adalet Pem Locknut	
	1	Alsimag Standoff 3/4" Diameter x 2½" #10-32 Thread	
	1	Alsimag Standoff 3/4" Diameter x 4½" #10-32 Thread	
	2	Alsimag Standoff 1" Diameter x 2" ¼-20 Thread	
	2	Machine Screw #10-32 x 3/4" Round Head, Brass	
	2	Machine Screw ¼-20 x 1" Round Head, Brass	
	4	Machine Screw #10-32 x 1" Round Head, Brass	
	1	Eimac HRT Heat Radiator (Fox X-493 Tube)	
	1	Eimac X-493 Tube	

D-21(M)

RESTRICTED

MASTER PARTS LIST

JOB: M.T.A. MARK I		JOB NO: 204-14	PAGE: 55 ~~57~~
ASSEMBLY: SECTION THRU BOX LOOKING TOWARD PANEL #4	ASSEMBLY NO.: ~~5N9885~~ 62775	LISTED BY: F. Patton	
SUB-ASSEMBLY: ANODE PHASING CONDENSER	SUB-ASSEMBLY NO.: ~~5N1893~~ 5N1893	DATE: April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N2791	9	Contact Ring	
5N1901	9	Handle	
5N1931	9	Rubber Insert	
5N1941	9	Inner Contact Strip	
	~~28~~ 36	Machine Screw #10-32 x 5/8" Round	
		Head, Brass	
	9	Amperex Vacuum Type Condenser	
		#VC-100A - 100mmf - 32 KV-DC	

D-26(M)

RESTRICTED UCRL 1849 ~~UCRL 1785~~

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	56~~58~~

ASSEMBLY	ASSEMBLY NO.	LISTED BY
SECTION THRU BOX LOOKING TOWARD PANEL #4	~~5N98856~~ 2775	F. Patton
SUB-ASSEMBLY	**SUB-ASSEMBLY NO.**	**DATE**
COVER	5N4866	April 16, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N2754	1	Top Cover	
5N6354	1	Top Cover Outer Gasket	
	24	Camlock Wing Head Stud #4002-16W	
	24	Camlock Grommet #4002-N	
	24	Camlock Washer #A10L-4002	
	72	Clinch Rivet #90-9/64" x 1/2"	
	36	Burr-Copper #8 - 31/64" O.D.	
	1	Door Pull - Stanley #1257-4	
	4	Machine Screw ¼-20 x ½" Flat Head,	
		Brass	
	4	Nut ¼-20 Hex. - Brass	
	As Req.	Metex #MTC - 57 (Monel Lace)	

RESTRICTED

D-21(M)

aa

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	57~~60~~
ASSEMBLY: SECTION LOOKING THRU BOX TOWARD PANEL #4	ASSEMBLY NO.: ~~5N9885~~6G2775	LISTED BY: F. Patton	
SUB-ASSEMBLY: FILAMENT LEAD	SUB-ASSEMBLY NO.: 6A1024	DATE: April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	10	Sta-Kon Solderless Terminal	
		Spade Type #B115 For #10 Screw and	
		#16 Wire	
	2	Lug - Ring Tongue #8 Wire - ¼" Screw	

RESTRICTED

D-21(M)

[redacted] CRL 1849 [redacted]

MASTER PARTS LIST

JOB: M.T.A. MARK I		JOB NO. 204-14	PAGE 5862
ASSEMBLY: SECTION LOOKING THRU BOX TOWARD PANEL #4	ASSEMBLY NO. ~~5N9885~~662775	LISTED BY: F. Patton	
SUB-ASSEMBLY: GROUND SOCKET ANODE PHASING CONDENSER	SUB-ASSEMBLY NO. 5N1671	DATE: April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1681	7	Base	
5N1691	7	Ring	
5N1701	7	Spring Finger Strip	

[redacted]

D-21(M)

101

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	59~~63~~
ASSEMBLY: SECTION THRU BOX LOOKING TOWARD PANEL #4	ASSEMBLY NO.: ~~5N9885~~ 662775	LISTED BY: F. Patton	
SUB-ASSEMBLY: ANODE LINE TERMINATION	SUB-ASSEMBLY NO.: 5N1716	DATE: April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1724	1	Anode Condenser Ring	
5N1731	1	Adjustable Spark Gap Holder	
5G9961	2	½" Female Pipe To ½" Tube Connection	
6A5011	1	Female Connector	
	1	Machine Screw ¼-20 x 3/4" Round Head,	
		Brass	
	1	Machine Screw #6-32 x ½" Flat Head,	
		Brass	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	60~~65~~
ASSEMBLY: SECTION THRU BOX LOOKING TOWARD PANEL #4	ASSEMBLY NO.: 5N9885	LISTED BY: F. Patton	
SUB-ASSEMBLY: COMPONENT PARTS	SUB-ASSEMBLY NO.:	DATE: April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5G9773	2	Wheel Cover Gasket	
5G9784	2	Wheel Cover	
~~6E8012-1~~	~~1~~	~~Anode Hat Clamp - Inner~~	
~~6E8012-2~~	~~1~~	~~Anode Hat Clamp - Outer~~	
5N2564	1	Anode Hat	
5N2571	4	Anode Termination Support Insulator	
5N2761	4	Support Insulator Clamp Fixed Ring	
5N2771	4	Support Insulator Clamp Ring	
5N2781	4	Support Insulator Clamp Split Ring	
5N7114	2	Ground Plane Gasket	
6A2531	3	Transformer Mount Bolt Sealing Sleeve	
~~2J6812~~	~~8~~	~~Insulator Posr (Coors 21-4-3959K)~~	
~~6A1003~~	~~1~~	~~Anode Sheet Line Backup Ring~~	
~~6A1011~~	~~6~~	~~Cork Washer~~	
~~6E8041~~	~~8~~	~~Insulator Block - Upper Inner~~	
~~6E8031~~	~~8~~	~~Insulator Hanger- Upper Inner~~	
5N9916	1	Transformer Mounting Plate	
~~C2441~~	~~1~~	~~¼" R.L. Nut~~	
~~C2451~~	~~1~~	~~¼" R.L. Rubber Tubing Nipple~~	
~~C2461~~	~~1~~	~~1/8" Thread Tubing Union - R.L.~~	
~~C2531~~	~~1~~	~~¼" R.L. Washer~~	
6G2504	1	CONTACT PLATE	
5N1266	1	ANODE TERMINATION SHEET	
5G8846-1	1	OSC. & TRANSMISSION LINE CONNECTION	
		STUB - ANODE	
5G8771-2	1	GASKET - STUB	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. Mark I		204-14	60.1
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
Elevation Thru Box Looking Toward Panel 4	6G2775	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
Component Parts		June 3, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N9904	1	Transformer Mounting Plate Contact	
		Assembly	
5N9924	1	Transformer Mounting Plate Finger	
		Clamp	
5N9932-2	3	Short Finger	
5N9332-1	6	Long Finger	
	2	Capscrew 5/16 - 18 x 1" Socket Head,	
		Silicon Bronze	
	9	Copper Rivet 1/8" x 3/8" Flat Head	
5G1751-2	6	Gasket	
5N2731	6	Cork Washer	
5G8834	1	Stub Flange	
5N1183	1	Anode and Cathode Stub and Sheet	
		Termination Clamp	
5G8803	2	Hub Contact Finger Ring	
5G8792	2	Stub Contact Finger Ring	
5G8814	1	Oscillator and Transmission Line	
		Connection Hub Flange	
5G6671	1	Ceramic Insulator	
6A5141	6	Hub Flange Pin	
5N1592	2	Anode Sheet Line Clamp Bar	
5N2863	1	Stub Contact Gasket Assembly	
5G8781-1	1	Stub Contact Gasket	
5N2873	1	Hub Contact Gasket Assembly	
5G8781-2	1	Hub Contact Gasket	

D-21(M)

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	61 ~~66~~
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
PARTS OF FINAL ASSEMBLY		April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	32 ~~20~~	Capscrew ¼-20 x 3/4" Hex. Head, Brass	
	12	Capscrew ¼-20 x 3/4" Socket Head, Silicon Bronze	
	8	Capscrew 3/8-16 x 1" Hex. Head, Brass	
	14	Capscrew 3/8-16 x 1 3/8" Hex. Head, Brass	
	6	Capscrew ½-13 x 1¼" Slotted Head, Brass	
	3	Capscrew ½-13 x 2¼" Hex. Head, Brass	
	6	Set Screw ½-13 x 2" Allen Head, Steel, Copper Plated	
	6	Cotter Pin 1/8" Diameter x 1¼" Long, Steel, Cadmium Plated	
	6	Square Nut ½"-13 Cadmium Plated , Steel	
	6	Nut ½-13 Hex. - Brass	
	3	Washer ½" Mfg. Standard - Brass	
	96	Machine Screw #10-32 x ½" Round Head, Brass	
	~~16~~	~~Capscrew ¼-20 x 2" Socket Head, Stainless Steel~~	
	~~32~~	~~Capscrew ¼-20 x 7/8" Hex. Head, Brass~~	
	~~32~~	~~Capscrew ¼-20 x 2" Hex. Head, Brass~~	
	~~2~~	~~Street Elbow 90° - ½" Malleable Iron Cadmium Plated~~	

D-21(M)

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~66.1~~ 61.1
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
SECTION THRU BOX LOOKING TOWARD PANEL #4	5N9885	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
PARTS OF FINAL ASSEMBLY		April 16, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	~~12~~ 16	Machine Screw ¼-20 x 5/8" Flat Head, Brass	
	~~14~~	~~Parker-Kalon #8-32 x 3/8" Type "F" Round Head, Self-Tapping Screw~~	
	~~16~~	~~Machine Screw ¼-20 x 1" Round Head, Brass~~	
	3	Pipe Plug 3/8-18 NPT - Square Head, Brass	
	~~8~~	~~Machine Screw ¼-20 x 5/8" Round Head, Brass~~	
	~~1~~	~~Tee 3/8 x 3/8 x 1/8 IPT - Brass~~	
	~~1~~	~~Hansen Fitting 3/8" MPT #3620~~	
	~~1~~	~~Barbed Insert 3/8" IPT x 3/8" Diameter Eastman #1670~~	
	~~1~~	~~Hose Clamp (5/8" O.D. Hose) - Brass~~	
	~~1~~	~~Hose Clamp (3/4" O.D. Hose) - Brass~~	
	2	CAPSCREW - 1/4-20 X 1" SOCKET HEAD SILICON BRONZE	
	48	CAPSCREW - 3/8-16 X 1" SOCKET HEAD - STEEL	
	2	HANSEN PLUG - #B3-T20 - 3/8-18 NPT	
	72	MACH. SCREW #8-32 X 1/2" ROUND HEAD - BRASS	
	10	CAPSCREW - 5/16-18 X 7/8 HEX. HEAD - BRASS	

RESTRICTED

D-21(M)

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	~~6062~~

ASSEMBLY	ASSEMBLY NO	LISTED BY
PLANT OSCILLATOR	5N7206	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
SPECIAL TOOLS		March 20, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6E8762	1	Grid Ring Hose Wrench	
6E8431	1	Grid Ring Socket Screw Wrench	
5N6294	1	Transformer Alignment Gage	
6E2191	1	Transformer Adjusting Wrench	
5N4001	1	Ceramic Condenser Extractor	
5N4011	1	Bushing	
5N4021	1	Rod	
5N4031	1	Nut	
5N4041	2	Washer	
	1	Washer - 3/4" Plain - Brass	
	1	Nut - 3/8-16 Hex. - Brass	
5N3971	1	Condenser Core Extractor	
5N3981	2	Handle	
5N3991	1	Rivet	
6E8332	1	Lever Arm Pivot	
6E8322	1	Lever Arm	
6E8343	1	Grounding and Phasing Condenser Extractor	
6E8371	2	Washer	
6E8312	1	Scissor Arm	
6E8322	1	Lever Arm	
6E8332	1	Lever Arm Pivot	
	1	Machine Screw #10-32 x 1/2" Hex. Head, Steel	
	2	Machine Screw #6-32 x 3/4" Fillister Head, Steel	

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~60.2~~
ASSEMBLY	ASSEMBLY NO.	LISTED BY	62.1
PLANT OSCILLATOR	5N7206	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
SPECIAL TOOLS		March 20, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	1	Spring - Free Length 5/8" - 9/32"	
		O.D. - .024" Wire	
5N1652	1	Lock Positioning Holes Drill Jig	
5G8683	1	Drill Template For Oscillator Truck	
		Wheel Elevation Lock Plate	
5N1662	1	Grounding and Phasing Condenser Gage	
		Block	
	2	Capscrew 3/8-16 x 1¼" Hex. Socket	
		Steel	
	2	Capscrew 3/8-16 x 1½" Hex. Socket	
		Steel	
5N1875	1	Ground Plane Master Drill Template	
5G8666	1	Box Bottom Panel Drill Template	
5N4875	1	Female Gage Assembly	
5N4884	1	Unit	
5N4894	1	Frame	
5N4904	1	Base	
5N4913	2	Rail	
5N4922	3	Vertical Wire Support Bracket	
5N4932	4	Horizontal Wire Support Bracket	
5N4942	2	Brace	
5N4951	7	Wire Adjusting Screw	
5N4961	7	Wire Support Carriage	
5N4971	14	Wire Support Carriage Pin	
5N4991	16	Gauge Screw	

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	~~60.2~~
ASSEMBLY: PLANT OSCILLATOR	ASSEMBLY NO.: 5N7206	LISTED BY: F. Patton 62.2
SUB-ASSEMBLY: SPECIAL TOOLS	SUB-ASSEMBLY NO.:	DATE: March 21, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N5354	4	Grid Ring Clamp Plate Master Drill	
		Plate	
		1 For 5G9932, Grid Finger Clamp Ring	
		1 For 5G9906, Grid Ring	Not Used
		1 For 5G9832, Grid Ring Fingers	
		1 For Master For UCRL	
5N5364	4	Cathode Plate Clamp Ring Master Drill	
		Plate	
		1 For 5G9916, Cathode Line Termina-	Not Used
		tion Plate	
		1 For 5G9942, Cathode Line Termina-	
		tion Plate Clamp Ring	
		1 For 5G9822, Cathode Line Termina-	
		tion Plate Fingers	
		1 For Master For UCRL	
5N5344	3	Panel Number One Master Drill Template	
		1 For 5G9155, Oscillator Panel No. 1	
		1 For 5N3693, R. F. Probe Box	
		1 For Master For UCRL	
5N1885	3	Box Top Panel Master Drill Template	
		1 For 5G9486, Box Top Panel - Oscil-	
		lator Box	
		1 Cut For 5G7996, High Voltage and	
		Plug Box	
		1 Cut For 5N2754, Top Cover	
		1 For Master For UCRL	

MASTER [illegible]

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~60-3~~ 62.3
ASSEMBLY	ASSEMBLY NO	LISTED BY	
PLANT OSCILLATOR	5N7206	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
SPECIAL TOOLS		March 21, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N1855	5	Box Panels #2 and #4 Master Drill	
		Template	
		1 For 5G9165, Box Panel Number Two	
		1 For 5G9475, Box Panel Number Four	
		1 For 5N4204, Electric Gutter Box	
		1 Cut Into Three Pieces For:	
		5G6524, Bias Compartment Frame,	
		5N1816, Air Manifold, and 5N1804,	
		Air Manifold Gasket, Including	
		5N2633 and 5N2642, Grid Termina-	
		tion Box Parts as Follows:	
		5N1553; 5N1563; 5N1533; 5N1543.	
		1 For Master For UCRL	
5N1865	3	Box Panel Number Three Master Drill	
		Template	
		1 For Box Panel Number Three	
		1 For Transmission Line Connection	
		Frame, Hub and Ground Plane Clamp	
		Plate	
		1 For Master For UCRL	
5N6301	1	Transformer Alignment Gage Bar	
5N6311	1	Ground Plane Elevation Setting Gage	

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	~~60.1~~

ASSEMBLY	ASSEMBLY NO.	LISTED BY
PLANT OSCILLATOR	5N7206	F. Patton 62.4

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
SPECIAL TOOLS		March 21, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N4545	1	Male Gage Assembly	
5N4554	1	Frame	
5N4563	2	Ring	
5N4571	8	Block	
5N4581	8	Scale	
5N4591	8	Washer	
5N4601	1	Gage	
		Parts of Final Assembly	
	8	Capscrew 3/8-24 x 2" Hex. Socket Head, Steel	
	2	Capscrew 3/8-24 x 2" Hex. Head, Steel	
	22	Capscrew 3/8-24 x 1½" Hex. Head, Steel	
	24	Jamnut 3/8-24 Hex. - Steel	
	8	Dowel Pin 1/2" x 1 3/4" Steel	
	16	Taper Pin #3/0 x 1" Long, Steel	
	16	Capscrew 5/16-24 x 1¼" Hex. Socket Head, Steel	
	16	Machine Screw #4-40 x 3/8" Flat Head, Steel	

RESTRICTED

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~60.5~~ 62.5
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
PLANT OSCILLATOR	5N7206	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
ALIGNMENT EQUIPMENT		April 17, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
5N4875	1	Female Gage	
5N4884	1	Gage Unit	
5N4904	1	Gage Base	
5N4894	1	Gage Frame	
5N4913	2	Gage Rail	
5N4942	2	Gage Brace	
5N4922	Ref.	Gage Vertical Support Bracket	
5N4932	Ref.	Gage Horizontal Support Bracket	
5N4991	16	Gage Screw	
5N4951	7	Gage Wire Adjusting Screw	
5N4961	7	Gage Carriage	
5N4971	14	Gage Pin	
5N6401	1	Truck Stop	
5N6411	1	Truck Stop Bracket	
5N6421	1	Truck Stop Handle	
5N6961	1	Go and No Go Gage	
5N8643	1	Arm	
5N8651	2	U- Bolt	
6A1272	1	Bracket	
	19	Capscrew 3/8-16 x 1¼" Hex. Head, Steel	
	15	Capscrew 3/8-16 x 1" Hex. Head, Steel	
	12	Phillips Shells 3/8"	
	16	Jam Nut ½-13 Hex. - Steel	
	4	Capscrew 3/4"-10 x 2" Hex. Head	

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	~~60.6~~

ASSEMBLY	ASSEMBLY NO.	LISTED BY	62.6
PLANT OSCILLATOR	5N7206	F. Patton	

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
ALIGNMENT EQUIPMENT		April 17, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
	4	Nut 3/4-10 Hex. Steel	
	14	Machine Bolt ½-13 x 2 3/4" Steel, Full Thread	
	28	Cotter Pin 3/32" x 1" Steel	
	2	Washer 1" Mfg. Standard - Steel	
	1	#6 Taper Pin - 1 3/4" Long	
	33	Jam Nut 3/8-16 Hex. - Steel	
	32	Set Screw 3/8-16 x 1" Socket Head, Flat Point Steel	
	20	Capscrew 3/8-16 x 1½" Socket Head, Steel	
	20	Washer C.R.& D. #XR-2D-737-1	
	1	Lord Bumper Mount #35	
	4	Machine Screw #12-24 x ½" Round Head, Steel	
	4	Lock Washer #12	
	4	Nut 3/8-16 Hex. - Steel	
	8	Lock Washer 3/8" - Steel	
	4	Dowel ½" Diameter x 2" Long	
	2	Drill Rod ½" Diameter x 3½" Long	
	2	Steel Tubing 1 3/4" O.D. x.095 Wall 10" Long	

RESTRICTED

D-21(M)

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~60.7~~
ASSEMBLY	ASSEMBLY NO.	LISTED BY	62.7
PLANT OSCILLATOR	5N7206	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
SPECIAL TOOLS		March 21, 1952	

PART NO.	NO. REQD.	DESCRIPTION	REMARKS
5N1662	1	Grounding and Phasing Condenser	
		Gage Block	
	2	Capscrew 3/8-16 x 1¼" Hex. Socket	
		Head, Steel	
	2	Capscrew 3/8-16 x 1½" Hex. Socket	
		Head, Steel	

D-21(M)

RESTRICTED

MASTER PARTS LIST

JOB		JOB NO.	PAGE
M.T.A. MARK I		204-14	~~60.8~~ 62.8
ASSEMBLY	ASSEMBLY NO.	LISTED BY	
PLANT OSCILLATOR	5N7206	F. Patton	
SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE	
SPECIAL TOOLS		April 1, 1952	

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
6G2833	19	Support Frame Assembly (For Tube Shipping Box)	
6G2843	19	End Section	
6G2853	19	End Section	
6G2863	19	Box Brace	
	266	#10 x 1 3/4" Flat Head Wood Screws	
	80	Carriage Bolt ¼-20 x 6½" Square Neck	
	80	Shim ½ x ½ x 20 Gage (.035) Steel	
	160	Nut ¼-20 Hex. - Steel	
	160	Washer ¼" Mfg. Standard - Steel	
	80	Threaded Rod ¼-20 x 23" Long; Steel	

RESTRICTED

MASTER PARTS LIST

JOB	JOB NO.	PAGE
M.T.A. MARK I	204-14	~~61~~ 63

ASSEMBLY	ASSEMBLY NO.	LISTED BY
PLANT OSCILLATOR	5N7206	F. Patton

SUB-ASSEMBLY	SUB-ASSEMBLY NO.	DATE
REFERENCE DRAWINGS		April 17, 1952

PART NO.	NO. REQ'D.	DESCRIPTION	REMARKS
4E9862	Ref.	Oscillator Flow Diagram	
5N8714	Ref.	Water and Air Flow Diagram	
203-14 M-23	Ref.	Air Cooling Test Procedure	
203-14 M-24	Ref.	Water System Test Procedure	
204-14 M-3	Ref.	Alignment Procedure	
204-14 M-1	Ref.	Service	
4W1175	Ref.	Wiring Diagram	
6A9973	Ref.	Patch Cord Assembly	