

**GR Instruments and Parts**

Dates are of GR Experimenter or *GR Today* articles  
 Dates in ( ) are other articles on item & later models  
 Letters in ( ) refer to catalogs, letters with - are versions (-B).  
 Names are signed Authors, names of others who worked on item are in ( ).

**In Bold: In Museum Collection**

**Underlined: on display in Westford Museum on May 02**

By Type Number:

25-A Broadcast Frequency Monitor	Jan 1940	J.K.Clapp
50 Variac®	July 1939	S.A.Buckingham
60-AM, -AU Variac®	Nov 1941	S.Smiley
70 Variac®	May 1938	
<b>71 Variac®</b>	<b>May 1951</b>	<b>H.M.Wilson</b> (gift of C Wenzelberger)
80 Variac®	May 1938	
90-B Variac®	Sep/Oct 1940	
<b>100 Variac®</b>	<b>May 1938</b>	<b>100Q</b>
<b>101 Condenser 1915</b>	<b>See June 1930</b>	<b>101-L 101-M</b>
<b>102 Decade Resistor (A,C)</b>		<b>102-E&amp;G 102-C</b>
105 Wavemeter (A) 1916	See June 1930	
<b>106 Standard Inductor L,G,K,M,N A)</b>		<b>106-C 106-K?</b>
<b>107 Aryton-Perry Variable Inductor (A)</b>	<b>Jan 1935</b>	<b>Unsigned June 1932</b>
108 Oil Condenser (A) 1916		-D .006, -F .0015
109-A 3-wire Receptical	July 1957	
110 Spark Indicator (A)		110-M Vacuum Tube used in also 12 Step Inductor (C)
111 10 Step Inductor (A)		
115 Thermo-Meter (for 105) (A)	L.W.Austin Jour NBS No7 Vol.2	
<b>119 R-F Choke</b>	<b>Jan 1937</b>	
120-A, -B, -C Standard Condensers (A)		air, fixed
122 Audibility Meter (A)		
123 Key	have photo	
<b>124 Condenser 1916 (A)</b>	<b>See June 1930</b>	
<b>125 Phantom-Antenna Resistor (A,G)</b>		
127 Hot Wire Ammeters, 3" (C,F)	Bull 901 Jan 1920	
128 Hot Wire Ammeters, 5"		
129 Galvanometer		
<b>130 Slide-Wire Bridge 1918 (B)</b>		
133 Standard Resistor (A,G)		
134 Thermo Couples (C)		
137 Dials & Knobs	Bull 916 Oct 1923	
<b>138 A-Z Binding Posts, Plugs</b>	Bull 916 Oct 1923	
139A Multiple Leaf Switch	Bull 916 Oct 1923	
140 Relay Key		
143-D Rectifier Tube (H)		
145 Direct Reading Wavemeter (C)		
149 Radio Transmitter	have photo	
151 Flame Proof Key (C) 1915		
<b>154 Voltage Divider (J)</b>		
<b>156 Socket (E)</b>	<b>Bull 916 Oct 1920</b>	
158 Auxiliary Radio Transmitter	have photo	
<b>160 Decade Bridge 1918 (B)</b>		<b>Designed by Rawson?</b>
161 Antenna Reel		
<b>164 Audibility Mixer 1916</b>	<b>Bull 201 1920</b>	
166 Amp & Tele Transformers (C)	Bull 901 Jan 1920, Bull 932	
168 Switch	have photo	
169 Vernier Condenser (C)		
<b>170 Hot Wire Galvanometer (C)</b>		
171 Single Leaf Switch	Bull 916 Oct 1920	
174 Direct Reading Wave Meter (C,F)		
176 High Frequency Buzzer	Bulletin 916 1923	
177 Inductor Form	Oct 1933	
178 High-Frequency Buzzer (C)	Bull 916 Oct 1920	
182 Variable Air Condenser (C)		
<b>189 Pointer Galvanometer (C)</b>	<b>189L</b>	

191 Universal Wave Meter (C)  
**193 Decade Bridge (B-F) 1919**  
193-P1 Wagner Ground (F2) See Sept 1931 R.F.Field  
**199 Galvanometer**  
**200 Variac® 200-CM June/July 1933 \*200CU, 200B**  
202 Switch and Knob (E) Bull 916 Oct 1920  
203 Audio Oscillator (fork) have photo (from B. Sargent)  
206 1 Step Amplifier Bull 902 May 1920  
**210 Ratio-Arm Box (F,G) Bull 903, Aug 1920**  
211 Vacuum Tube Detector Bull 902, May 1920  
213 Audio Oscillator (E,F,G) Apr 1930 C.E.Worthan -2 1000c, -C 400c  
**214 Rheostats Bull 901, Jan 1920**  
215 2 Step Amplifier Bull 902, May 1920  
216 Capacity Bridge (E,F,G) Bull 404, Jan 1921 see Jan 1930 RFF  
**219 Decade Condensers (E,F) (11/42) 219-M**  
**222 Variable Condensor, (F) 1916-1936 (10/35 R.F.Field)**  
224 Precision Wavemeter (G) Sept 1929  
**226 Four Step Inductor Bull 302, Aug 1920, Bull 916, Oct 1920**  
229 Galvanometer Shunt (E,G) Bull 903, Aug 1920  
231-A Ampifying Transformer Bull 916 Oct 1920 (231-M Modulating Trans)  
**236 Paper Condenser (in radio)**  
239 Special Geared Condenser (E) (Variable Air)  
240 Capacity Meter (E) Bull #409 Aug 1924 Morley has one (a bridge)  
241 Microphone Hummer (F)  
246 Variable Air Condenser (E,G) Bltn 108 Nov 1923  
**247 Variable Air Condenser (E,F) Bull 916 Oct 1923 see July 1931**  
247-W Wavemeter and Filter Bull 931 1929  
248 Line-Amplifier Transformer (E)  
**249 Attenuation Box (F) Aug 1927 H.W.Lamson**  
260 Porcelain Insulator (E,G) Bulletin 916 Oct 1933 Feb 1933  
268 Variocoupler (E,G)  
**269 Variometer (E,G)**  
271 Medium Frequency Transformer Radio Apparatus catalog, Bltn 918 May 1924  
274 Jacks and Plugs (E)  
275 Piezo-Electric Oscillator (E,F) see Nov 1930 J.K.Clapp Bltn 718 1924  
**276 Quartz Plate Feb 1930 earlier?**  
277 Inductance and Coupling Coils (E)  
280 Insulator (E) Bulletin 916 1923  
282 Socket Bull 916 Oct 1920  
283 Tube Protecting Resistance Unit Radio Apparatus Cat  
284 Line-Amplifier Transformers  
285 Audio Transformers Oct 1927  
**287 Direct-Reading Ohmmeter (E)**  
289 Fader Recorder see June 1930  
290 Piezo-Electric Oscillator (F2)  
292 Audio Frequency Transformers Jan 1932  
293 Universal Bridge (F3,G) Jan 1932 R.F.Field **293-P1**  
**298 Meter Mountings (G)**  
**299 Socket (E) Bull 916 Oct 1920 (in radio)**  
300 Amplifier Unit Bull 916, Oct 1920  
**301 Rheostat & Potentiometer (E,G) Bull 916 Oct 1920**  
301-S104 Variable Delay Line Oct 1961 F.D.Lewis  
302 Geared Dial (E)  
303 Geared Dial (E)  
305 Radio Filter Bull 710 Oct 1923  
306 Crystal Set (Tom Vales has picture)  
309 Socket Cushion (E) see July 1931  
310 Dials (G)  
314 Rheostats & Potentiometers (G)  
317 Dials (F,G)  
318 Dial Plate (F2) Apr/May 1933  
320 180 K.C. Test Oscillator  
321 Artificial-Cable Boxes (E)  
329 Variable Attenuation Network (F) Sept 1927 H.W.Lamson  
330 Filter Section (E,F,G)  
**331 Tuned Transformer**  
332 Station Frequency Meter D3 Bltn 7100 July 1927

**333 Rheostat & Potentiometer Feb 1933**  
 334, 335 Variable Air Condensers (E,F) May 1929  
 337 Switch (E,F,G)  
**338 String Oscillograph & Vibration Galvanometer (E,G) Bltn 717 1926 see Apr 1931**  
 339 Switch (F)  
**340 Rheostat (E,F) (switched, in box)**  
 345 Audio-Frequency Transformer see June 1930  
 346 Adapter (E) (tube socket adapter)  
 348 Antenna Measuring Equipment 1929  
 349 Socket (E,G)  
 355 Transformer Test Set (E) see June 1930  
 356 Quartz-Plate Holder Bull 932 1939  
**358 Wave Meter (E,F,G)**  
 359 Variable-Ratio Transformer (E,F,G)  
 360 175 & 180 KC Test Oscillators June 1929, Sept 1929 C.T.Burke  
**361-B Vacuum-Tube Bridge (E,F) see Feb 1928**  
 365 Plate-Supply Transformer (E)  
 366 Filter Choke (E)  
 367 Output Transformer (E) Oct 1927  
**368 Variable Air Condenser (E,G)**  
 369 Impedance (inductor) (E)  
 371 Rheostat & Potentiometer (E,F,G)  
 373 Double Impedance Coupler (E) Oct 1927  
 374 Condenser (variable, air) (E)  
 375 Piezo-Electric Oscillator (E,F) (6/35)  
**376 Quartz Plates (F,G) Bull 916 Oct 1920 (2/30 C.E.Worthen)**  
**377-B Low-Frequency Oscillator (E,G) Oct 1929 L.B.Arguimbau (6/35)**  
 379 Radio-Frequency Chokes (E,F,G)  
 380 Decade Condenser Units (F) (for 219 Boxes)  
 383 Portable Capacity Bridge (E,F,G) Feb 1927  
 384 Portable R-F Oscillator & Inductors (E,F,G) Apr 1929  
 387-A Speaker Filter (E,F) Oct 1927  
 388 Vacuum Tube Reactivator Feb 1928 C.T.Burke  
 389-B Pierce Magnetostriction Oscillator (F)  
**400 Plate Supply & Power Amplifier**  
**403 Standard-Signal Generator (E,F) Mar 1930 C.T.Burke (1928 see 6/35) Lewis Hull**  
 404 Service Test Oscillator (F2) June 1929  
**405 Power Supply Unit**  
 407 Synchronous Shutter (F2) Apr 1931 H.W.Lamson (P1 Shutter Wheel)  
 408 Oscillograph Camera (F2) Apr 1931 H.W.Lamson  
 409 Camera Shelf (F2)  
 410 Rheostats (E) July 1927  
 411 Synchronous Motor (E) May 1927 J.K.Clapp  
 413 Beat-Frequency Oscillator (E,F) Apr 1927  
 415 Laboratory Amplifier Mar 1927  
 418 Dummy Antenna (F3,G) See Aug 1930 (-G 11/37)  
 419 Rectifier-Type Wavemeter (F3) Nov 1931 E.Karplus  
 421 R.F. Reactance Meter Apr 1934 H.H.Scott  
 423 Vacuum Tube Oscillator (F)  
**426-A Thermionic Voltmeter (E,G) Sept 1928**  
 427-F Alternating-Current Voltmeter (F)  
 429 Attenuation Box (F,G) (7/35)  
 433 Rheostat Jan 1942  
**434-B Frequency Meter (F3,G) Nov 1931 -B (No -A?) R.F.Field (Wien Br)**  
 437 Adjustable Center Tap Resistor (E,F) Dec 1927  
 438 Socket (E) July 1927  
 439 Center Tap Resistor (E,F) July 1927  
 440-A Low-Voltage Transformer (E) July 1927  
 441 Push-Pull Amplifier (E) Oct 1927 C.T.Burke  
 443 Mutual-Conductance Meter Sept 1928 (bridge)  
 444 Socket (H)  
 445 Plate Supply & Grid-Bias Supply (E) Sept 27  
 446 Voltage Divider (E) Dec 1927  
 449 Adjustable Attenuator Nov 1937  
**452 Voltage Divider (F) Nov 1937 452-C**  
 456 Duplex Siphon Recorder Feb 1932 H.W.Lamson  
**457 Modulation Meter (F2,G) see Mar 1930**  
 458 5-Meter Wavemeter (E)

459-A Manual Recorder	Dec 1931	H.S.Wilkins
467 Synchronous Driving Fork	Nov 1927	H.W.Lamson
<b>471 Rheostats &amp; Potentiometers (G)</b>		
473 Synchronometer	Nov 1927	H.W.Lamson
475 Frequency Monitor (J)	Apr 1935	C.E.Worthen
<b>476 Quartz Bar (J)</b>		
478 Cathode-Ray Oscillograph Tube (F3,G)		
480 Relay Rack (F,G)	Sept 1932	
481 Polar Relay	Feb 1929	C.R.Burke
481-P412 Rack adapter Set	July 1965	R.W.Harley
483 Output Meter (F3,G)		(-F 6/36)
484 Modulated Oscillator & Inductors	Oct 1932	
486 Output Meter (F)	July/Aug 1929	J.D.Crawford
487 Megohm Meter (J)	Sep/Oct 1936	F. Ireland
488 Alternating-Current Meters (F,G)		
489-B Pierce Twin Magnetostriction Oscillator (F)		
<b>492 Oxide Rectifier (F2,G)</b>		
493 Vacuum Thermocouples (F3,G)	Mar 1939	D.B.Sinclair
<b>496 Cathode Ray Oscillograph &amp; Power Supply Unit (F3,G)</b>		
<b>497 Tube Mounting (F3,G)</b>		
<b>500 Resistors (F3,G)</b>		
502 Dials (F2,G)		
503 Dials (F2,G)		
<b>505 Condensers (J)</b>	<b>Jan 1933</b>	<b>A.E.Thiessen</b>
<b>506-A Bedell Sweep Circuit (F)</b>	<b>May 1932</b>	<b>H.H.Scott</b>
507-A Non-Polar Relay	Nov 1929	
508 Oscillator (F3,J)		(1/36, R.F.Field)
<b>509 Mica Condensers</b>	<b>Apr 1935</b>	<b>509-U 0.2uF</b>
510 Decade Resistor Unit (F3,G)		
511 Synchronous Clocks (F,G)	see June 1930,	
511-C Synchro-Clock	Oct 1930	H.S.Wilkins
513 Beat-Frequency Oscillator (F,G)	Apr 1931	C.T.Burke
514 Amplifier (F3,G)	Oct 1931	C.T.Burke
516 Radio-Frequency Bridge (G)	July 1932	C.T.Burke (-C 12/33)
519 Dial Lens	Jan 1933	
520 Dial Lock	Jan 1933	
521-A Edgerton Stroboscope	Ayug/Sept 1933	
522 Dial Plate		
523 Dial Plate		
525 Resistor (power)	Apr/May 1933	
526 Rheostats		
527 Rectified Filter (E,F,G)		
528 Cathode-Ray Tube	June/July 1933	J.D.Crawford (see Nov '37)
529 Attenuation Box (F,G)		
530 Band-Pass Filter (F3,G)		
531 Power Supply (G)	Apr/May 1933	Museum has manual
532 Station Frequency Meter (E)	Apr 1931	C.T.Burke
533 Rheostat & Potentiometer (G)	Feb 1933	(250w)
534 Band-Pass Filter (G)		
535 Frequency Meter-Monitor	Jan 1933	Unsigned
536 Distortion-Factor Meter (F3,G)	Nov 1931	W.N.Tuttle
537 Knobs (G)		
539 Variable Air Condenser (F2)		(H. Hyman has one, unboxed)
540 Filament Transformer (F)		
541 Push-Pull Amplifier Transformers (E,F)		
544 Megohm Meter *(Megohm Br)	June/July 1933	R.F.Field (-B 7/37)
545 Power Transformer	May 1929	
<b>546 Microvolter (G)</b>	<b>June/July 1933</b>	<b>J.W.Horton (-B 4/41 M.A.Gilman, -C '48)</b>
547 Temperature Control Box (G)	Nov 1929	unsigned
<b>548 Edgerton Stroboscope (G)</b>	<b>Dec 1932</b>	<b>H.R.Lamson (Edgerton &amp; Germeshausen)</b>
<b>549 Synchronous Motor Contactor (G)</b>	<b>-B</b>	
550 Mercury Lamp Renewal (G)		
552 Volume Control (F2)	June 1931	A.E.Thiessen
553 Volume Control (F2)	June 1931	A.E.Thiessen
554 Voltage Divider (F)	Feb 1929	
556 Amateur-Band Condenser (F2)		(variable, air)
557 Amateur-Band Condenser (F)		
558 Wavemeter (E)	July 1928	

559 Noise Meter (G)	Mar 1933	H.H.Scott (-B 11/35)
560 Crystal Holder (H)	Sept 1932	
561 Vacuum Tube Bridge (G)	May 1932	W.N.Tuttle (-D 11/41)
565 transformer (G)		
<b>566 Wavemeter (G)</b>	<b>Oct 1931</b>	<b>E.Karplus</b>
568 Variable Air Condenser	Oct/Nov 1938	
<b>572 Microphone Hummer (G)</b>		
573-A Resistance-Impedance Coupler	Bull 932 1930	
<b>574 Wavemeter (G)</b>	<b>Oct 1931</b>	<b>unsigned</b>
575 Piezo-Electric Oscillator (G)	see Nov 1930	(types 275 & 547)
<b>576 Quartz Bar (F2) 1930</b>		
577 Inductor (G)		
<b>578-A Bridge Transformer</b>	<b>April 1934,</b>	<b>R.F.Field (10/35, 1/38)</b>
579 Tube Mounting (G)	June/July 1933	J.D.Crawford
580 Power Supply Unit (G)	June/July 1933	
<b>581 Frequency Deviation Meter (G)</b>	<b>Cat F Supp 1931</b>	<b>(1/32)</b>
<b>583 Power Output Meter (G)</b>	<b>May 1932</b>	<b>J.D.Crawford</b>
585 Audio-Frequency Transformer (E,F2,G)	July 1928	
586 Output Level Indicator (F,G)	Apr 1930	(6/35)
587 Speaker Filter (E)	Apr 1929	
588 Direct-Current Meter (G)	see Oct 1930	
590 Piezo-Electriuc Oscillator (F,G)		
<b>591 Temperature Control Unit (F)</b>		
<b>592 Multivibrators (F,G)</b>		<b>see Oct 1932</b>
<b>593 Timing Unit (F,G)</b>		
<b>594 Heat-Control Unit (G)</b>		
595 Power Supply Unit (F,G)		
597-A Tube Mounting (for CRT)	June/July 1933	
598 Fader (F)	July/Aug 1929	H.W.Lamson
600 Standard-Signal Genertor (F3,G)	Aug 1931	L.B.Arguimbau & J.D.Crawford
601 Standard-Signal Generator (F3)	see Apr 1932	A.E.Theissen
<b>602 Decade Resistance Boxes</b>	<b>Feb 1932</b>	
603 Standard-Signal Generator (G)	May 1932	C.T.Burke
604 Test-Signal Generator (G)	Feb 1933	<b>604-P20 coil</b>
605 Standard-Signal Generator	June 1936	A.E.Theissen
607-S1 Std Gsignal Generator		museum has manual
608-A Oscillator (1st R-C Osc)	Apr 1939	H.H.Scott
610 Ratio-Arm Box (G)		
611 Synchro Clock (J)	1922?	see Oct 1930 H.S. Wilkins
612 Control Panel (G)		
<b>613 Beat-Frequency Oscillator (G)</b>	<b>May 1932</b>	<b>C.T.Burke (-B 6/34)</b>
614 Selective Amplifier (J)		
615 Hetrodyne Frequency Meter (G)		
616 Hetrodyne Frequency Meter (G)	see Oct 1932	
617 Interpolation Oscillator (G)		
618 Harmonic Oscillator (G)		
619 Hetrodyne Detector (G)	Oct 1932	
620 Hetrodyne Frequency Meter (M)	Feb 1940	J.K.Clapp
621 Edgerton (Power) Stroboscope (J)	Jan 1935	(1/36 C.T.Burke)
624 Precision Wavemeter (G)		624P Inductors
625 Bridge (G)	Apr/May 1933	R.F.Field
<b>626 Vacuum-Tube Voltmeter (F3,G)</b>	<b>Nov. 1931</b>	<b>Lamson</b>
627 Jack-Top Insulator (G)		
628 Insulator (G)		
629 Lead-In Assembly (G)		
630 Stand-off Insulator (G)		
<b>631 Strobotac® (J)</b>	<b>Aug 1935</b>	<b>H.H.Scott (Wilkins, Edgerton &amp; Germeshausen)</b>
631-P1 Strobotron		
632 Capacitance Br For Electrolytic Condensers	June/July 1933	R.F.Field
<b>635 Electron Oscillograph (G)</b>	<b>June/July 1933</b>	<b>J.D.Crawford</b>
<b>636 Wave Analyzer</b>	<b>June/July 1933</b>	<b>L.B.Arguimbau</b>
637 Fluted Knobs (G)	Aug/Sept 1933	
638 Sockets (F2)		
639 Variable Air Condenser (G)		
641 Transformer	Dec 1939	L.E.Packard
642 Volume Control (G)	May 1932	A.E.Theissen
645 Laboratory Amplifier	Apr 1930	A.E.Theissen

646	Logarithmic Resistor (J)		
647	Socket (G)		
648	Strobolux (M)	May 1939	C.E.Worthen
649	Sockets (F2)		
<b>650-A</b>	<b>Impedance Bridge</b>	<b>Apr/May 1933</b>	<b>R.F.Field</b>
650-P1	Oscillator-Amplifier	Apr 1946	H.W.Lamson
651	Camera Assembly	Nov//Dec 1934	H.W.Lamson
652	Volume Control	1931	
<b>653</b>	<b>Volume Control (G)</b>	<b>Feb 1933</b>	
654	Voltage Divider	May 1932	
655-A	Bedell Sweep Circuit (H)	May 1934	H.H.Scott
656/657/658	Sockets (F2,G)		
660	Universal Rack (J)	Oct 1933	
661	Unit Panel Equipment (G)	Oct 1933	
<b>663</b>	<b>Resistor (HF)</b>	<b>Jan 1939</b>	<b>D.B.Sinclair</b>
664	Thermocouple	May 1928	L.B.Arguimbau
666	Variable-Ratio Transformer (G)		
667	Inductance Bridge	Mar 1934	R.F.Field (6/35)
668	Compensated Decade Resistor Units,	Mar 1934	R.F.Field
669-A,R	Compensated Slide Wires	Mar 1934	
<b>670-F</b>	<b>Compensated Decade Resistor</b>	<b>Mar 1934</b>	<b>R.F.Field</b>
671-A	Schering Bridge (60 Hz)	June 1938	H.W.Lamson
672	Power Supply	Sep/Oct 1934	
673	Power Supply		
674	Plugs & Jacks (G)		
675	Piezo-Electric Oscillator (J)		
<b>676</b>	<b>Quartz &amp; Mounting (J)</b>		
677	Coil Forms	Jan 1933	(5/36)
678	Jack & Plug Base (J)		
679-A, B	Inductor	Mar 1934	M. Eastham & J.M.Clayton
680	Jack Base (G)		
681	Frequency Deviation Meter (J)	Jan 1940	J.K.Clapp
682	Frequency Deviation Meter (J)		
683-A	Oil Cell	Sep/Oct 1934	R.F.Field (4/35)
684-A	Modulated Oscillator	Nov 1937	
686-A	Power-Level Indicator	Oct 1937	A.E.Theissen
<b>687</b>	<b>Electron Oscilloscope &amp; Bedell Sweep Ckt</b>	<b>June 1934</b>	<b>(HHS &amp; EK)</b>
687-BM	Cabinet Model, 687-BR Rack Model	see 11/35	p.8
690-B	Piezo-Electric Oscillator (H)		
691	Temperature Control Unit (H)		
692	Multivibrator (J)		
693	Snychro Clock (H) K, 1939		
694	Crystal Osc. (H)		
695	Power Supply (H)		
696	Ac Power Supply		
698	Duplex Multivibrator (last 1946)		
699	Comparison Oscilloscope	Dec 1931	J.K.Clapp
700	Beat-Frequency Oscillator (M)	Jan 1939	D.B.Sinclair
701	Direct Dial Drives	Aug 1940	
702/703	Friction Dial Drives	Aug/Sep 1933	
704	Precision Dial (G)		
705	Friction Dial Drive (J)	Feb 1935	
706	Precision Dial(G)	Jan 1933	
707	Cathode-Ray Null Indicator	Apr 1939	H.W.Lamson
710	Plain Dial (G) Direct Dial Drive (J)		
712	Direct Dial Drive (J)	Feb 1935	
713	Beat-Frequency Oscillator (J)	Jun 1935, (7/35)	1935 L.B Arguimbau
714	Amplifier	Sep 1935	L.B.Arguimbau
715	Direct-Current Amplifier (M)	Feb 1939	J.K.Clapp
716-A	Capacitance Bridge (J)	Dec 1939	R.F.Field (-B 4/42)
716-B	"	Apr 1942	R.F.Field
716-C	Capacitance Br	Apr 1947	R.F.Field & I.G.Easton
716-P2	Guard Circuit	Mar 1940	R.F.Field
716-P4	Guard Circuit	Aug 1952	I.G.Easton
716-CS1	Capacitance Br. 1Mc	Feb 1952	I.G.Easton
717	Plain Dial (G)		
720	Hetrodyne Frequency Meter (L,M)	July/ Aug 1945	E. Karplus

721 Coil Comparator	Jul 1937	W.N.Tuttle
722 Precision Capacitor (J)	Jan 1936	Field?
722-D	Feb 1937	C.E.Worthen
<b>722-N H-F version</b>	<b>Oc</b>	
<b>t/Nov 1938 D.B.Sinclair</b>		
723 Vacuum-Tube Fork (M)	Oct 1941	W.N.Tuttle
724 Precision Wavemeter (J)	Mar 1936	A.G.Bosquet
725 Color Comparator (J)	Aug 1935	C.T.Burke
<b>726 Vacuum-Tube Voltmeter (J)</b>	<b>5/37</b>	<b>W.N.Tuttle (7/38 D.B.Sinclair)</b>
727 Vacuum-Tube Voltmeter	May 1942	W.N.Tuttle
728 Vacuum Tube Voltmeter (battery)	Dec 1944	A.G.Bosquet
729 Megohmmeter (M) Battery Operated	Jul 1940	W.N.Tuttle
730 Transmission Measuring Set (J)	Jan 1935	L.B.Arguimbau (6/35)
731 Modulation Monitor (J)	Jan 1935	"
732 Disatortion & Noise Meter (J)	Feb 1935	L.B.Arguimbau
733 Oscillator (J)	Feb 1935	"
736 Wave Analyzer (M)	Dec 1938	L.B.Arguimbau
738 Insert Terminal (G)		
739 Logarithmic Condenser	Aug/Sept 1938	A.G.Bosquet
740 Capacitance Bridge (M)		(-B 6/38 L.E.Packard)
741-G Transformer	Jul 1935	A.E.Theissen
747 Temperature Control Box (G)		
755-A Condenser	Aug 1939	
<b>755-AS1 Susceptance Variation Circuit Sep/Oct 1940</b>		<b>R.F.Field</b>
756 Variable Air Condenser (G)		
<b>757-A Ultra-High-Frequency Oscillator Aug 1941</b>		<b>A. Peterson</b>
<b>757-P1 Power Supply</b>		
<b>758 Wavemeter (M)</b>	<b>Aug 1940</b>	<b>E. Karplus</b>
<b>759 Sound-Level Meter (J)</b>	<b>Dec 1937</b>	<b>L.E.Packard</b>
760 Sound Analyzer	Feb 1939	H.H.Scott
761-A Vibration Meter	Jun 1941	H.H.Scott
762 Vibration Analyzer (M)		
769 Square-Wave Generator	Dec 1939	L.B.Arguimbau
770 Cathode Ray Oscilloscope	see Theissen p. 40	Sinclair Not marketed
774 Coaxial Terminals	Apr 1941	D.B.Sinclair
775-A Frequency-Limit Monitor	Feb 1938	D.B.Sinclair
776 Patch Cord		
777-Q1,Q2,Q4 Adaptor		
783 Power Output Meter (M)	Jan 1942	
804 Standard-Signal Generator	Nov 1939	(-B 2/41 M.T.Smith)
<b>805 Standard-Signal Generator</b>	<b>Apr 1943</b>	<b>C.C.Cady</b>
813 Oscillator	May 1935	H.W.Lamson
814 Amplifier and 814-P1 filter	Jan 1938	
<b>815 Tuning Fork</b>	<b>May 1936</b>	
816 Vacuum Tube Prec. Fork (last 1948)		
821 Twin T Impedance-Measuring Network	Jan 1941	D.B.Sinclair
829 Decade Attenuator Unit (M)	Dec 1949	H.W.Lamson
<b>830 Filter (J)</b>		<b>830-R</b>
834 Electronic Frequency Meter	Dec 1935	J.K.Clapp
838 Test Leads, Clips etc	Jul 1952	H.C.Littlejohn
846, <b>847</b> ,848 <b>Variable Air Capacitors</b>	(last 1948)	
857 U-H-F-Oscillator	Nov 1944	E.Karplus
869 Pulse Generator (M)	Jan/Feb 1944	H.H.Scott & C.A.Cady
<b>874 Coaxial Elements</b>	<b>Jan 1950</b>	<b>W.R.Thurston (EK)</b>
874-LB Scotted Line	Nov 1950	R.A.Soderman & W.M.Hague
874-LBA Sweep Drive	Apr 1955	R.A.Soderman
874-MR Mixer	May 1950	E. Karplus
880-DCA, G6,G10 Attenuators		(last 1977)
900 Coaxial Equipment	Nov 1963	J. Zorzy
901/902/903/904/905/906 Dials (M)		
907/908 Gear Drives (M)	May 1955	
913-A Beat-Frequency Oscillator	Jul 1942	H.H.Scott
916-A Radio-Frequency Bridge (M)	Aug 1942	D.B.Sinclair
916-AL Radio-Frequency Br.	Mar 1949	R.A.Soderman
<b>920 Switch (last 1948)</b>		
938 Binding Posts (M)	Jun/Jul 1952	H.C.Littlejohn
940 Decade Inductor Unit	July 1949	H.W.Lamson

941 Toroidal Transformer (M)	Sep 1950	H.W.Lamson
942 Output Transformer (O)	Nov 1951	H.W.Lamson
970 Dial		
<b>971-977 Potentiometers</b>	<b>Jan 1955</b>	<b>H.M.Wilson 971, 973</b>
980 Decade Capacitor Units		
<b>1000-P3,4,5,P6 Voltage Divider, Dummy Antenna, Transformer &amp; Crystal Diode</b>		
1001 Standard-Signal Generator (N)	Sept 1949	A.G.Bosquet
<b>1003 Standard-Signal Generator</b>	<b>Jul/Aug 1967</b>	<b>R.Aldenbach</b>
1021 UHF Standard-Signal Generator	Mar 1950	E.Karplus & E.E Gross
1022-A F-M Standard-Signal Generator	Nov 1949	D.B.Sinclair
1023 Amplitude Modulator (M)	Nov 1949	D.B.Sinclair
<b>1025-A Std Sweep Freq Generator</b>	<b>Jan 1963</b>	<b>W.F.Byers</b>
1026 Standard-Signal Generator	Mar 1967	G.P.McCouch
1061 Frequency Synthesizer		
1062 Frequency Synthesizer	GR Today Aut 1973	
1065 Frequency Synthesizer		
1100 Frequency Standard (M)		
1101-A,B Piezo Electric Oscillator		
1102-A Multivibrator & Power Supply		
1103 Synchronometer		
1105 Freq Measuring Equipment (M)	Jun 1958	F.D.Lewis
1106 Frequency Transfer Unit (M)		
1107 Interpolation Oscillator (M)		
1108 Coupling Panel (M)		
1109 Comparison Oscilloscope (M)		
1110 Interpolating Frequency Std (M)		
1112 Standard Frequency Multiplier (P)	Jul 1958	F.D.Lewis
1113-A Standard Frequency Oscillator		
1114 Frequency Divider		
<b>1115-B Std-Frequency Oscillator</b>	<b>Jun 1964</b>	<b>H.P.Stratameyer</b>
1116 Emergency Power Supply (P)		-B 4-5/63
1120 Frequency Standard	Apr 1961	Frank, Lewis & Stratameyer
1121-A Frequency & Time Standard	Feb/Mar 1965	
<b>1123-A Digital Synchrometer</b>	<b>Aug 1964</b>	<b>Feb/Mar 1965 D.O.Fisher</b>
1124 Receiver	Mar 1968	D.O.Fisher
1125 Parallel Storage Unit	Mar 1968	D.O.Fisher
1130 Digital Time & Freq Meter	May 1961	R.W.Frank & H.T.McAleer
1131-P1 to P5 Counting Units		
1132-A Data Printer		
1133 Frequency Converter	Dec 1962	H.T.McAleer
1134 Analog-to-Digital Converter	Oct 1961	H.P.Stratameyer
1136 Analog-to-Digital Converter	Dec 1963	H.P.Stratameyer
1137 Printer		
1140 Wavemeter (M)		
1141 Audio-Frequency Meter	Feb 1948	M. Gilman Wien Br like 434
1142 Frequency Meter & Discriminator	Jan/Feb 1961	C.G.Chitorous (MCH)
1143-A Frequency Measuring Assembly	Sep 1965	
1144-A 100Mc Digital Frequency Meter	Sep 1965	
1150 Digital Frequency Meter	Apr 1962	J.K.Skilling & R.W.Frank
1151 Digital Time & Freq Meter	Jun 1963	R.W.Frank
1153-A Digital Frequency Meter	Sep 1965	S.Bentzen & D.S.Nixon
1156-A Decade Scaler (10:1)	Sept 1965	D.S.Nixon
1157-B Scaler (100:1)	Jul/Aug 1968	(Skilling & Sargent)
1158-9600 Tektronix Probe		
1159 Recipromatic Counter	Jun/Jul 1968	N.L.Westlake & S. Bentzen
1160-RDI-1 Digit Insertion Unit	May 1965	G.H.Lohrer
1161-A Coherent Decade Freq Synthesizer	Sept 1965	A. Noyes
1162-A Coherent Decade Freq Synthesizer	Sept 1965	A. Noyes
1163-A Coherent Decade Freq Synthesizer	Nov/Dec 1965	A. Noyes
1164-A Coherent Decade Freq Synthesizer	Sep 1966	W.F.Byers
1165-A Coherent Decade Freq Synthesizer	Nov/Dec 1965	
1168-A Coherent Decade Freq Synthesizer	Sep 1966	
1169 Resolution Kit		
1170 F-M Frequency Monitor (O)		
1176 Frequency Meter (O)		
1181-A A-M Frequency Deviation Meter		
1181-AT Color Subcarrier Monitor (O)	Apr 1954	W.R.Saylor (-B 4/68)
1183 T-A Television Transmitter Monitor	Apr 1958	



1184 TV Transmitter Monitor (O)	Sept 1956	C.A.Cady
<b>1190 Quartz Bar</b>		
1191 Counter	Jan/Feb 1969	(-Z 11/68 H.T.McAleer)
1192 Counter	Jul/Aug 1969	S.Bentzen
1201 Ub=nit Regulated Power Supply	Aug/Sep 1958	
1202 Unit Vibrator Supply (O)	Feb 1955	A.G.Bosquet
1203 Unit Power Supply	Jul 1951	(-B 7/57)
1204 Unit Variable Power Supply	Jul 1951	
1205-A Unitb Power Supply	Nov 1948	Unsigned
1205-B Adjustable Regulated Power Supply	Supply Mar 1959	(M.C.Holtje)
1206-A Unit Amplifier	Nov 1948	unsigned
1206-B Unit Amplifier	Nov 1953	H.P.Hall (DBS, APGP)
1207-A Unit Oscillator	Nov 1948	Unsigned LC Osc
1208 Unit Oscillator	May 1950	E.Karplus (-B 4/55, -C 6/65)
1209 Unit Oscillator	May 1950	E.Karplus " "
1210-A Unit Oscillator		
1210-B Unit R-C Oscillator	May 1955	Bosquet, Peterson & Sinclair
1210-C Unit R-C Oscillator	Apr 1958	
<b>1211 Unit Oscillator</b>	<b>Sep 1053</b>	<b>A.G/Bosquet (-C 6/65)</b>
1212 Unit Null Detector	Feb 1953	R.B.Richmond
1212-P2 One-Megacycle Filter	Jan 1956	H.P.Hall
1213-A Unit Crystal Oscillator	Feb 1952	R.B.Richmond (-C 6/56 RWF & FDL)
1213-D Unit Time/Freq Calibrator	Oct 1959	R.W.Frank & H.P.Stratameyer
1214 Unit Oscillator	Jul 1951	(-E 2/59)
1215 Unit Oscillator	Jan 1953	A.G.Bosquet (-B 4/55, -C 6/65)
1216 Unit IF Amplifier	May 1954	R.A.Soderman
1217-A Unit Pulser	Mar 1954	R.W.Frank (-B 2/62, -C 12/64)
1218 Unit Oscillator	Feb 1955	E.Karplus (-B 7/65 R.W.Hartley)
1219 Unit Pulse Amplifier	Jul 1955	R.W.Frank
1220 Unit Klystron Oscillator	Mar 1957	B. O'Brien & R.A.Soderman
<b>1230 D-C Amplifier &amp; Electrometer</b>	<b>Mar 1956</b>	<b>A.G.Bosquet</b>
1231-B Amplifier and Null Detector	Feb 1948	W.R.Thurston
<b>1232 Tuned Amplifier and Null Detector</b>	<b>July 1961</b>	<b>A.E.Sanderson</b>
1232-P1 Preamp	Feb 1967	H.P. Hall
1233 Power Amplifier	Jan 1951	W.F.Byers
1234 Standing-Wave Meter	Feb 1958	M. Khazam
1235-DNT Hetrodyne Detector		
1236-A I-F Amplifier	Jul/Aug 1967	M. Khazam
1237 UHF/VHF Preamplifier		
1238 Detector		(D.Abenaim)
1240-A Bridge Oscillator/Detector	Jun 1964	
1241 Hetrodyne Detectors		
1260-A Variac Rectifier	Mar 1946	E.E.Gross
1261-A Power Supply, (O)	Mar 1946	E.E.Gross
1262 Power Supply (O)	Mar 1952	E.E.Gross (see 1551-A)
<b>1263-A Amplitude-Regulating Power Supply</b>	<b>Apr 1955</b>	<b>W.F.Byers (-B 7/61)</b>
1264-A Modulating Power Supply	Mar 1961	G.P.McCouch
1265-A Adjustable DC Power Supply	May 1962	H.P.Hall
1266=A AC Power Source	May 1962	G. Smiley
1267 Unit Power Supply	Aug 1963	M.C.Holtje
1268 Automatic Battery Charger	Apr/May 1963	
1269 Unit Regulated Power Supply	Aug 1963	M.C.Holtje
1300 Beat-Frequency Oscillator		
1301-A Low-Distortion Oscillator	Jun 1949	F.D.Lewis
1302 Oscillator	Nov 1947	C.C. Cady Wien Br.
1303 Two-Signal Audio Oscillator	Aug 1950	A. Peterson
1304 Beat-Frequency Oscillator	Jan 1952	(-B 6/54 CAW)
1305 Low-Frequency Oscillator	Aug/Sep 1959	G. Smiley
1307 Transistor Oscillator	Aug 1954	A. Peterson
1308 Audio Oscilator & Power Amplifier	Aug 1966	R.G.Fulks
1309 Low-Distortion Oscillator	Mar 1944	R.E.Owen
<b>1310-A Oscillator</b>	<b>Aug 1965</b>	<b>R.E.Owen</b>
1311-A Audio Oscillator	Aug/Sep 1962	R.G.Fulks
1312 Decade Oscillator	Jan 1968	R.E.Owen
1313-A Oscillator	Feb 1967	R.E.Owen
1316 Oscillator (Cat 78)		
1330 Bridge Oscillator	Dec 1950	A.G.Bosquet
1340 Pulser	Nov/Dec 1968	(RWF)

1346 Audio-Frequency Microvolter	Aug/Sep 1968	R.E.Owen
1350-A, AQ1 Generator Recorder Assembly		
1360-A Microwave Oscillator	Jan/Feb 1962	Per Bergstad
1361-A UHF Oscillator	Mar 1961	G.P.McCouch
1362 UHF Oscillator	Jun/Jul 1968	G.P.McCouch
1363 VHF Oscillator	Jun/Jul 1968	G.P.McCouch
1381 Random-Noise Generator	Jan 1968	J.J.Faran Jr.
1382 Random-Noise Generator	Jan 1968	J.J.Faran Jr.
1383 Random-Noise Generator		(J.J.Faran Jr.)
1390-A Random-Noise Generator	Dec 1951	A.P.G. Peterson
1391 Pulse, Sweep & Time Generator	May 1956	R.W.Frank (-B2/59)
1392 Time-Delay Gererator	Dec 1958	R.W.Frank
1394-A High-Rate Pulse Generator	Jul 1966	J.K.Skilling
1395 Modular Pulse Generator	May 1965	G.R.Partridge
1396-A Tone-Burst Geberator	Nov/Dec 1968	J.K.Skilling
1397-A Pulse Amplifier		
1398-A, P1 Pulse Generator & DC compensator		
1399 Digital Divider, Period & Delay Generator	Jan/Feb 1969	R.W.Frank
<b>1401 Capacitor</b>		
<b>1403 Standard Air Capacitor</b>	<b>Aug/Sept 1959</b>	<b>I.G.Easton</b>
1404 Standard Capacitor	Aug 1963	J.F.Hersh (-C 8/66/)
<b>1405 Coaxial Capacitance Standards</b>	<b>May 1968</b>	<b>R.Orr &amp; J.Zorzy</b>
1406 Coaxial Capacitance Standards	Sep 1967	R.Orr
<b>1407 Coaxial Capacitance Standards</b>	<b>May 1968</b>	<b>R.Orr &amp; J.Zorzy -D</b>
1408 Reference Standard Capacitors	Sept 1970	D.Abenaim & J.F.Hersh
<b>1408-B " oil bath version in room</b>		
<b>1409 Standard Capacitors</b>	<b>Jul 1957</b>	<b>P.K.McElroy</b>
<b>1412-BC Decade Capacitor</b>	<b>Aug 1960</b>	<b>R.W.Orr</b>
1413 Precision Decade Capacitor	Mar/Jun 1970	unsigned (R.W.Orr)
<b>1417 Four-Terminal Capaitance Standard</b>		<b>H.P.Hall</b>
<b>1419 Decade Capacitor</b>	<b>Jul 1956</b>	<b>(-K 11/57)</b>
<b>1420 Variable Air Capacitor</b>	<b>Jul 1956</b>	<b>H.M.Wilson</b>
<b>1421 Variable Air Capacitors</b>	<b>Nov 1958</b>	
<b>1422 Precision Capacitors</b>	<b>Aug 1961</b>	<b>P.K.McElroy</b>
<b>1423-A Precision Decade Capacitor</b>	<b>Jun 1961</b>	<b>I.G.Easton</b>
<b>1424-A Standard Polystyrene Decade Capacitor</b>	<b>Jun 1961</b>	<b>P.K.McElroy (10uF)</b>
1425-A Standard Polystyrene Decade Capacitor	Jul 1965	P.K.McElroy (100uF)
1426 Four-Terminal Capacitance Standard	Jan 1968	H.P.Hall
1427 Variable Air Capacitor (M)		
1428 Variable Air Capacitor (M)		
1429-A Fuel Gage Tester (MD-2)	Jan 1960	Unsigned (designed by PKM)
<b>1432 Decade Resistors</b>	<b>June 1951</b>	<b>I.G.Easton (-X Sept 1961)</b>
<b>1433 Decade Resistors</b>	<b>Nov/Dec 1968</b>	<b>H.P.Hall</b>
1434 Decade Resistors	Oct 1962	H.P.Hall
1435 Programmable Decade Resistor	Jul/Sep 1970	(Peter Gray IV)?
1436 Lever Switch Decade Resistor		W.J.Bastanier?
<b>1440 Standard Resistors</b>	<b>Oct 1962</b>	<b>W.J.Bastanier</b>
1441 " "	" "	" "
1442 Coaxial Resistance Standards	Apr 1969	R.W.Orr
<b>1444-A, -B Reference Resistance Standard</b>	<b>Mar/Jun 1969</b>	<b>W.J.Bastanier</b>
1450 Decade Attenuators	Dec 1949	H.W.Lamson
1452 Programmable Attenuator	Nov/Dec 1970	Unsigned (G.H.Lohrer)
1454 Decade Voltage Divider	Aug 1955	I.G.Easton
<b>1455 Decade Voltage Dividers</b>	<b>Apr 1967</b>	<b>H.P.Hall</b>
<b>1481 Standard Inductors</b>	<b>Dec 1950</b>	<b>H.W.Lamson -B</b>
<b>1482 Standard Inductors</b>	<b>Nov 1952</b>	<b>H.W.Lamson (7/57)</b>
1490 Decade Inductor	Jul 1949	H.W.Lamson (5/58)
<b>1491 Decade Inductor</b>	<b>Mar/Apr 1969</b>	<b>Unsigned</b>
<b>1493 Precision Decade Transformer</b>	<b>Apr 1967</b>	<b>G.X.Smiley-</b>
1500 Counting-Rate Meter	Jul/Aug 1947	(-B 9/50 AGB)
1501 Light Meter (M)	Oct 1950	
1510-A Digital-to-Graphic Recording	Assem. Sept 1965	(1136 & 1521)
1521-A Graphic Level Recorder	Jun 1959	M.C.Holtje & M.J.Fitzmorris
1522 Preamplifier etc		
1523 Graphic Level Recorder (Cat 78)		
1525-A Data Recorder	Oct 1966	A.P.G.Peterson
1530 Microflash (M)		(5/45)

<u>1531 Strobotac</u>	Sept 1960	M.J. Fitzmorris (MCH)	<u>-AB</u>
1532 Strobolume (M)			
1533 High Speed Motion Picture Camera			
1534 Polariscope	Jun 1950	G. Smiley	
1535 Contactor			
1536 Photoelectric Pickoff	Oct 1962		
1537-A Photoelectric Pickoff	Apr 1966		
1538-A Strobotac Electronic Stroboscope	Apr 1966	M.C.Holtje	
<b>1539 Stroboslave</b>	<b>Apr 1966</b>	<b>M.C.Holtje</b>	
1540 Strobolume	Sep/Oct 1969	C.E.Miller	
1541 Multiflash Geberator	Jul/Sep 1970	(C.E.Miller & W.F.Rogers)	
1542 Stroboscope	Oct/Dec 1970	C.E.Miller (-B Sum '72)	
1543 "	GR Today Summ 1972		
1544 "	"		
1545 GR France Strobe			
1547 GR France Strobe			
1550 Octave-Band Analyzer (M)			
1551 Sound-Level Meter	Mar 1952	E.E.Gross (6/57, -B 11/58, -C 7/65)	
<b>1552 Sound-Level Calibrator</b>	<b>Dec 1949</b>	<b>E.E.Gross</b>	
1553 Vibration Meter	Nov 1961	E.E.Gross	
<b>1554 Sound &amp; Vibration Analyzer</b>	<b>Dec 1959</b>	<b>J.J.Faran Jr.</b>	
<b>1555 Sound Survey Meter (M)</b>	<b>Apr 1952</b>	<b>A.P.G. Peterson</b>	
1556 Impact Noise Analyzer	Feb 1956	A.P.G.Peterson	1557 1557
Vibration Calibrator			
1558 Octave-Band Noise Analyzer	Oct 1962	W.R.Kundert (-BP 11/66)	
1559 Microphone Reciprocity Calibrator	Apr/May 1963	B.A.Bonk	
1560 Microphone, Case, Tripod etc (P)			
<b>1561 Precision Sound-Level Meter</b>	<b>Apr 1968</b>	<b>C.A.Woodward &amp; E.E.Gross</b>	
<b>1562-A Sound-Level Calibrator</b>	<b>May/June 1967</b>	<b>B.A.Bonk</b>	
1563 Sound Level Meter			
1564 Sound & Vibration Analyzer	Sep/Oct 1963	W.R.Kundert	
<b>1565 Sound Level Meter</b>			
1565-Z Audio Calibration Kit	Apr 1968		
1566 Multichannel Amplifier (Cat 78)			
1567 Sound-Level Calibrator			
1568-A Wave Analyzer	Sep 1966	W.R.Kundert	
1569 Automatic Level Regulator	Apr 1968	W.R.Kundert & C.A.Woodward	
1570 Automatic Voltage Regulator	Jul 1954	M.C.Holtje	
1571-A Line-Voltage Regulator	Jan 1956	C.E.Miller	
1581-A Line-Voltage Regulator	Jan 1956	C.E.Miller	
1582-A Line-Voltage Regulator	Jan 1956	C.E.Miller	
1583 Three-Phase Line Voltage Reg.	Oct 1967		
1590 Remote Control	Sep 1961	M.C.Holtje & C.A.Tashijan	
1591-A Automatic Line-Voltage Reg.	Oct 1967	C. Chitouras	
1592-A Automatic Line-Voltage Reg.	Oct 1967	C. Chitouras	
1601 VHF Bridge P	Feb 1950	R.A.Soderman	
1602 UHF Admittance Meter MP	May 1950	W.R.Thurston	
<b>1603 Z-Y Bridge</b>	<b>Jul 1955</b>	<b>I.G.Easton</b>	
1604-A Comparison Bridge	Feb 1954	M.C.Holtje (-B 2/54)	
1605 Impedance Comparator P	Apr 1954	M.C.Holtje & H.P.Hall (Easton)	
<b>1606-A R-F Bridge (RAS) P</b>	Jun 1955	R.A.Soderman <b>(-B 9/67)</b>	
1607 Transfer-Function and Immittance Meter	Mar 1958	W.R.Thurston & R.A.Soderman	
<b>1608 Impedance Bridge</b>	<b>Mar 1962</b>	<b>H.P.Hall</b>	
1609 Precision UHF Bridge	Nov-Dec 1967	J.F. Gilmore	
1610-A Capacitance Measurement Assembly	Dec 1953	(IGE., -AK 2/57)	
1611-A Capacitance Test Bridge	July 1948	I.G.Easton (-B 2/58)	
<b>1612-A R-F Capacitance Meter</b>	<b>Nov 1948</b>	<b>W.F.Byers</b>	
1612-AL "The Type 1612-AL Capacitance Meter"	Feb 1951	P.K. McElroy	
1613-A Capacitance Bridge (P-582)	Feb 1958	H.P.Hall (P.K.McElroy)	
1614 Capacitance Bridge	Feb 1946	H.R.Lamson	
<b>1615-A Capacitance Bridge</b>	<b>April 1962</b>	<b>J.F.Hersh</b>	
1616 Precision Capacitance Bridge	Oct/Dec 1970	D. Abenaim & J.F.Hersh	
<b>1617-A Capacitance Bridge</b>	<b>Jun 1966</b>	<b>H.P.Hall</b>	
1620 Cap. Meas. Ass. (1615,1232,1311)	See 1615		
1621 Precision Cap. Meas. Ass. (1616,1238,1316)	See 1616		
1630 Induct. Meas. Ass. (1633,1265,1308)	see 1633		
1631 Inductance Bridge	Feb 1946	H.R.Lamson	see 1614
1632A Inductance Bridge	Nov 1959	J.F.Hersh	

1633 Incremental Inductance Bridge	May 1962	H.P.Hall & R.G.Fulks
1633-P1 Range Extension Unit		
1640 Slotted Line Recorder	Jan 1965	A.E.Sanderson
1641 Sweep Freq. Reflectometer	Mar/Apr 1969	MacKenzie, Gilmore & Khazam
1644 Megohm Bridge	July 1964	H.P.Hall
<b>1650-A Impedance Bridge</b>	<b>Mar 1959</b>	<b>H.P.Hall</b>
1650-B Universal Impedance Bridge	May 1968	C.D. Havener
1651 Bolometer Bridge	Jul 1950	R.A.Soderman
1652 Resistance Limit Bridge	Jan 1952	W.M.Hague Jr.
1654 Impedance Comparator	May/June 1969	R. K. Leong
1655 (Semi-Auto IMP. Br. (CDH) never sold)		
1656 Impedance Bridge	Mar/June 1970	(H.P.Hall, unsigned)
<b>1657 Digibridge</b>	<b>1976</b>	(HPH, M. Gipe, R.Sullivan,)
1658 "	1977	"
1659 RLC Digibridge		
1660 Precision Inductance Meas. Assem. (1632,1311,1232)		
1661-A Vacuum Tube Bridge	Feb 1959,	A.G.Bosquet (-B 8/61)
1662 Resistance Comparator	Nov/Dec 1969	R.K.Leong
<b>1666 Resistance Bridge</b>	<b>GR Today Autumn 1972</b>	<b>(HPH)</b>
1670 Magnetic Test Set	Aug 1948	H.W.Lamson
1671 Coaxial Cable Attenuation Meas. Kit	Dec 1957	(WRT)
1672 Digital Control Unit		(RGF) bridge part of 1680
1673 Automatic Capacitance Bridge		(RGF) bridge part of 1680
1674 Auto. Digital Comparator	June/July 1968	(RKL) (part of 1681)
1680 Automatic Capacitance Bridge Assem.	Apr 1965	R.G.Fulks
1681 Auto. Impedance Comparator System	Jun/Jul 1968	R.K. Leong
1682 Auto. Capacitance Bridge (1Mc)	Nov/Dec 1969	R.F. Sette
1683 Automatic RLC Bridge	Mar/June 1970	T.J.Coughlin
1684 Digital Impedance Meter Cat 74		(TJC)
1685 Digital Impedance Meter	1973	(HPH)
1686 Digital Capacitance Meter		(HPH)
1687 1 MHz Digibridge		(WFB, HPH & others)
<b>1688 Precision LC Digibridge</b>		<b>(RCS, HPH &amp; others)</b>
1689 Precision Digibridge		(RCS, HPH & others)
1690 Dielectric Sample Holder		
1691 Capacitance Test Fixture	Oct 1955	I.G.Easton
1692 RLC Digibridge		
1693 RLC Digibridge		
1700 Variac Speed Control	Apr 1949	W.N.Tuttle (-B 5/51)
1701 Variac Speed Control	Oct 1949	
1702 Variac Speed Control	Dec 1953	W.N.Tuttle
1703 Variac Speed Control	"	
1704 Variac Speed Control	Dec 1953	
1705 Variac Speed Control	"	
1710 Precision RF Network Analyzer	GR Today Summ 1972	C.E.Gorss
1730 Linear Circuit Tester	GR Today Mar 1974	(R.K.Leong)
1731 Socket Adaptor Sets (for 1730)		
1732 Digital Circuit Tester		
1735 Dig IC Tester		
1740 Linear IC Tester		
1742 Digital IC Tester		
1744 Digital IC Tester		
1750 Sweep Drive	Apr 1955	E.Karplus
1770-A Scanner System	Nov/Dec 1966	H.T.McAleer & R.F.Sette
1772 Switch Assemblies		
1781-A Digital Limit Comparator	Nov/Dec 1966	
1782 Analog Limit Comparator	May/June 1969	R.K.Leong
1783 Digital Limit Comparator	Aug/Sep 1968	
1784 Multiple Limit Comparator		
1785 Printer		
1790 Logic-Circuit Tester	Jan/Feb 1970	(Cvitkovich, Fichtenbaum etc)
1791 Card-Punch Coupler		
1792 Logic-Circuit Analyzer	GR Today Spring 1973	
1793 Logic Circuit Tester		
1795 Logic Test System		
1796 Digital/Analog Test System		
1797 Programming Station		
1799 Digital/Analog Test System		

1800 Vacuum-Tube Voltmeter M	Sept 1946	C.A.Woorward (& DBS?)	?
1802 Crystal Voltmeter M	Oct 1946	A.P.G. Peterson	
1803 Vacuum-Tube Voltmeter M	Apr 1950	C.A.Woodward(-B 3/55)	
1805			
<b>1806 Electronic Voltmeter</b>	Jul 1963	J.J.Faran Jr.	
1807 D-C Microvoltmeter/Nanoammeter	Aug/Sep 1968	K.G.Balekdjian	
1808 AC Millivoltmeter	Nov/Dec 1969	K.G.Balekdjian	
1820 Digital Voltmeter	May 1968	K.G.Balekdjian	
1822 Digital Voltmeter Calibrator	Mar/Apr 1969	R.P.Anderson	
1840 Power output Meter	Feb 1962	G.Smiley	
1861-A Megohmmeter	Nov/Dec 1945	W.N.Tuttle	
1862-A Megohmmeter	Nov 1951	A.G.Bosquet	
1862-B Megohmmeter	Dec 1954	A.G.Bosquet	
1862-C Megohmmeter	Jul 1963	H.P.Hall	
1863-A Megohmmeter	Mar/Apr 1969	H.P.Hall (W.Blake)	
<b>1864-A Megohmmeter</b>	<b>Mar/Apr 1969</b>	<b>H.P.Hall (W.Blake)</b>	
1865 Megohmmeter	designed by QuadTech		
1900-A Wave Analyzer	Apr 1964	A.P.G.Peterson	
1909 1/3 Octave Real-Time Analyzer	a 1972	G. Partridge & R.W. Frank	
1910 Recording Wave Analyzer	Apr 1964	A.P.G.Peterson	
1911-A Recording Sound & Vibration Ana.	Sep 1964	M.W.Basch	
1912 Third-OctaveRecording Analyzer (U)			
1913 Recording Wave Analyzer			
1920 See P-1920 below			
1921 Real-Time Analyzer	May/June 1969	Kundert, LaPointe & Partridge	
1923 Vibration Control System	GR Today Sum 1972	Time Data Div.	
1925 Multifilter	Oct 1968	W.R.Kundert	
1926 Multichannel RMS Detector			
<b>1931 Modulation Meter (M)</b>		<b>-B 4/58</b>	
1932-A Distortion Meter	Jun 1949	F.D.Lewis	
1933 Precision Sound Level Meter & Analyzer Sys.	See GR Today Mar 1974		
1934 Noise Monitor			
1935 Cassette Data Recorder			
1937 Audiometer	GR Today Mar 1974		
1938 Sound Shelter	Cat 73		
1939 Audiometric Examination RoomR	Cat 73		
1940 Power Supply			
1944 Sound Exposure Meter	GR Today Sum 1972		
1945 Community Noise Analyzer			
1951 Filter (O)	Feb 1953		
1952 Universal Filter	Apr 1968	W.R.Kundert	
1954 Noise Dosimeter			
1961 Electret Condenser Microphone (1")			
1962 Electret Condenser Microphone (1/2")			
1963 Electret Condenser Microphone (1/4")			
1971 Ceramic Microphone (1")			
1972 1/2" Ceramic Microphone & Adaptor			
1981 Precision Sound-Level Meter/Sets/System			
1982 Precision Sound-Level Meter & Analyzer System			
1983 Sound-Level Meter			
1984 Sound Level Meter			
1985 DC Recorder			
1986 Carrying Case			
1988 Random Mike etc			
1995 Real Time Analyzer			
2200 Multi-Station Test System (Cat 73)			
2210-A Analog Circuit System	GR Today, Spring 1973		
2220 Bug Hound	(M. Fichtenbaum)		
2230 Passive Test System	(W.Kabele, others)		
2240 Resistance Anodize Trim System (RATS)	GR Today Sum 1972 (M.Holtje)		
2250 Functional Laser Trim System	GR Today Mar 1974		
2260 Automatic R-F Network Analyzer Sys.	GR Today Spr 1973		
2270 In-Circuit/Functional Test System	Cat 78		
228X			
2290-9259 Automatic Component-Test System	Cat 73		
2295-8158 Bias Supply	May/June 1969		
2295-9349 Resistance Anadodize Trimmer	"MimiRATS" Cat 73		
2512 Spectrum Analyzer			

2750  
2995-0158 Bias Supply  
(More New Test Systems)

Listed By Letter:

**BC-14A Radio Receiving Set, USA Signal Corp**

**S.C.R 112 Battalion<->Regiment Set Box 1919**

C-21-H Primary Frequency Standard Jun 1935  
CAP-22 Three-Wire Cord Apr 1962  
CGR 44 Portable Signal Gen for USCG museum has manual  
DNT Detector Assemblies May 1954 R.A.Soderman  
DNT-2 " Mar 1955 R.A.Soderman  
DNT-5,-6,-7 " Jun 1965  
FR-36/U Het. Freq. Meter & Cal  
GRX-401 Standard Resistor non-catalog W. Bastanier  
G-S 1701 Audometer  
G-S 1703 Audiometer  
G-S 1720 Ooadmittance Meter  
GTS-1 Display Panel Tester 1991-3 (Hall, Pillote, Albertini etc)  
IND-0300/1801 Numerik Indicators Apr 1962  
LR Interpolator (Freq Meter for Navy)  
M-2, M-5 Variac® Autotransformer Jul 1954 G. Smiley  
M-10 Variac® Autotransformer Nov 1954 G. Smiley  
M-2 Variac® Autotransformer Oct 1954 G. Smiley  
MD-1 Fuel Gage Tester see P-579  
MD-2 Fuel Gage Tester see 1429-A military designation TTU-68/E  
P-174-A Power Level Indicator 1929 Museum has manual  
P-205 Timing Equipment for USCG " " "  
**P-259 Voltmeter** (donated by Charlie Wenzelberger) " " "  
P-261 Portable Calibrator for USCG  
P-330 Std Signal Generator Museum has manual  
P-349 Signal Generator for USCG Museum has manual  
P-472 Inductance Bridge  
**P-484 Broadcast Dual Mixer**  
P-507 Microflash Sept 1941  
P-521 Receiver, made for National Defense Research Committee GR has Man, HPH has photo  
P-540 Receiver, P1,P2 &P3 Man Mar 1947 D.B.Sinclair Have Manual  
P-579 Field Variable Capacitance Tester Sept 1955 P.K.McElroy (MD-1 Fuel gage tester)  
P-582 Capacitance Bridge (or 1613) Feb 1958 H.P.Hall (& P.K.McElroy) TTU-24/E  
P-583 Emergency Power Supply Nov 1957 G.Partridge, R.W.Frank  
P-1920 Real-Time Analyzer ("Bat Machine" 1965 R.W.Frank, G Partridge  
V-2 Variac® Autotransformer May 1952 G.Smiley  
V-5 Variac® Autotransformer May 1946 G.Smiley  
V-10 Variac® Autotransformer Jul/Aug 1946 G.Smiley  
**W-5 Variac® Autotransformer Dec 1955**  
W-8 Variac® Autotransformer Apr/May 1963  
W-20 Variac® Autotransformer Aug/Sep 1958  
W-50 Variac® Autotransformer Apr 1957  
**X 274 Comparison Bridge**

No. Type Number:

Rectangular Potentiometer, made for Harvard Engineering School  
Capacitance Unbalance Br. For Cable Testing May 1929  
Universal Gain-Loss Set see June 1930 p. 9  
Impedance Comparator **in room** Feb 1936 J.W.Horton (for human body)  
**2-Section  $\pi$  Type Filters (in room)**  
**Vacuum Tube Voltmeter in room (sloped panel)**  
Model 600M Wrapping Station Cat 73

Made by or with Other Companies:

Acme Apparatus Co. Transformers Bull 107, Mar 1921, Bull 113&119 May 1921  
P-11, Type 1002A Western Electric Head Phones Bull 901 Jan 1920  
G-S 1701 Audiometer Oct/Dec 1970 R.L.Grason  
G-S 1703 Recording Audiometer  
G-S 1720 Ooadmittance Meter GR Today Aut 1973

M/S 80 Laser Trim System (Micronetics) see GR Today Autumn 1973, Cat 73  
GR/TEL LCD Tester "Looking Glass" See HPH Papers  
TR-47/APR Test Oscillator Nov 1946 R.A.Soderman Made by Fairchild Camera to GR dwgs

**Appendix: Catalog Dates**

A	1916	G	1932	O	June 1956
B	1918	G Pt2	Mar 1934	P	April 1959
C	1919	H	1935	Q	May 1961
D*	1921-1927	J	Sept 1936	R	May 1963
E	Dec 1928	K**	1939-1945	S	1965
F	June 1930	K5	1946	T	Feb 1968
F Pt2	April 1931	L	1948	U	Feb 1970
F Pt3	Oct 1931	M	Oct 1951	Cat 73	1973
		N	Jan 1954	Cat 78	1978

\* Catalogs D1, D2 & D3 are collections of Bulletins

\*\*Editions of Catalog K 1939, K2 , K3 1944, K4 1945, K5 1946

**GR Radios & Transmitters**

149 Radio Transmitter

158 Auxiliary Radio Transmitter made for Bureau of Steam Engineering

**BC-14A Radio Receiving Set USA Signal Corps**

**S.C.R. 112 Batttalion Regiment Set Box**

P-521-A Receiver RESTRICTED 300-1000 MC for field strength measurements.

P-540 Receiver A Search receiver for radar countermeasures which covered the freq range of 70-1000Mc. Manufactured by Philco. Navy ARC-1, Air Corps SCB-587

Unidentified battery-operated transmitter HPH has photo (from B. Sargen)

Clapp-Eastham Radios

**HR & HZ 1921**

RADAK R-4 1923

RADAK DD 1925