

ROUTING FOR REPORT ON SALEABLE AND NON-SALEABLE CALIBRATION FIXTURES (067-):

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Section S-9, Field Administration Manual

PMPC Listings

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Saleable items produced by Product Manufacturing,  
by part number with description and price.

Non-saleable items produced by Product Manufacturing,  
by part number with description.

Activity on saleable items

Part Numbers assigned by PE/PS with description

PE/PE&M Manual Review Schedule

Copy of Manual for 067-0544-00 (example of most complete  
manual).

## CALIBRATION FIXTURES (067- GEAR)

### Introduction

This is an information document for reference use by Tektronix employees having responsibilities related to calibration fixtures. The distribution is limited and revised copies will be issued as deemed necessary.

There has been considerable change in the concepts, policy and procedures relating to this equipment. There may be more. It is the intent of this document to describe the present status and enough of the recent history to help Engineering, Manufacturing and Marketing achieve a coherent approach to the program.

### General History

In order to manufacture and support our product line, we have continuously generated a variety of tools, special hardware, jigs and fixtures, special instruments, accessories and other such items. Some of these have appeared as catalog products, and many more have been available to the field organization (and usually the customer) by one or more means. As the company has grown, we have had to increasingly systematize and control this process.

Today we recognize two important categories, Calibration Fixtures and Maintenance Hardware. Most of these are considered useful not only to Engineering and Manufacturing, but to Marketing and the customer. These are called saleable. There are some that exist only for R&D value, or for economy of high volume manufacture; these do not go to Marketing or the customer, and are called non-saleable. Section S-9 of the Field Administration Manual thoroughly describes the Marketing posture with respect to saleable items. A copy of section S-9 is attached. Note that the terms saleable and non-saleable do not appear in the FAM. To the field and to the customer, calibration fixtures are saleable items, and they have no official knowledge of those we call non-saleable.

Marketing (Product Technical Information) is presently preparing a compendium of calibration fixtures for field use, which will include only saleable items.

In the document you are now reading, the terms Calibration Fixture and Maintenance Hardware will be used to include both saleable and non-saleable items; exceptions will be identified. IN TERMS OF TODAY'S DEFINITIONS AND PART NUMBERING, MANY ITEMS HAVE BEEN - AND SOME STILL ARE - MISPLACED. ITEMS WHICH APPEAR TO BE MISPLACED MAY OR MAY NOT BE REASSIGNED IN THE FUTURE.



Definition and Part Numbering

A calibration fixture is a special instrument or accessory used to test or calibrate Tektronix products. It is special in that it is made or modified for that purpose by Tektronix and as such is not otherwise available. The maintenance hardware category includes items such as special tools, jigs, chemicals, etc.

Starting about September, 1966, Saleable Calibration Fixtures are part numbered 067-XXXX-00, and Non-saleable Calibration Fixtures are part numbered 067-XXXX-99. No other items will be added to the 067-XXXX category. (In the past, other identifying numbers have been used. For example, numbers 067-500 and above identified saleable items, and lower numbers (<500) identified non-saleable items.) Assignment of calibration fixture part numbers in the 067- category is coordinated by Preproduction Engineering Prototype Support, which notifies PMPC (Ted Shaver), PMSE (Chuck Samuel), PTI (John Mulvey) and PE/PE&M (Leon Orchard).

Production Volume - Production Control

Low volume items are built on demand and do not have a machine bill. High volume items are built on schedule, have a machine bill and production part numbers for all parts. PMPC is responsible for all decisions and subsequent control in this regard. Items on scheduled build are identified in lists issued by PMPC.

All purchased parts in Calibration Fixtures will have either an engineering part number or a production part number. An engineering part number will be used when a component is not available from regular stock, except that parts in items on the manufacturing schedule must have regular numbers (current status) to appear on the machine bill. If a purchased part with an engineering number goes regular for any reason, it should use the same number, dropping the E designation and going to current status. Mechanical parts for items not on a machine bill are not part numbered (unless by coincidence they are a common part). Those parts are identified and controlled as follows:

Don Poindexter maintains a file for each 067- item not on a machine bill. This file lists each mechanical part by name and references a drawing number; the drawings are filed and maintained by Don. Marked copies of changed drawings are kept so that there is a historical record of changes to these mechanical parts. The drawing list includes a schematic for the item.

Production Volume - Production Control  
(Continued)

PMPC is responsible for providing a manufacturing package to the building plant for items not on scheduled build. This package includes a set of current drawings from Don.

Modifications to items without a machine bill are jointly controlled by PMSE (Chuck Samuel) and PE&M Electrical Evaluation (Leon Orchard), with information going to Ted Shaver. A history of general parts changes and other modifications is kept by PE&M as a normal part of the evaluation of modifications. Mods on items with regular machine bills are handled by MAP/Modifications (Joe Dimeo). Serial numbers are used on saleable items if they are "instrument size" and/or subject to certification. Non-saleable items are serialized only if they are subject to certification.

Requests from International for non-saleable items (with part numbers) should come to PMPC. If International has an interest in an item without part number, their contact should be Chuck Samuel.

When a new number is assigned to an item, the old number will be listed in all records as "Obsolete - replaced by \_\_\_\_\_."

Manuals

In general, the 067- program is a minimum support program as compared to our product line. However, we do provide the customer with a manual containing:

Picture of Instrument	Calibration Procedure
Characteristics	Schematics
Operating Instructions	*Parts List
Checkout Procedure	*Exploded Mechanical View

\*The amount of detail regarding mechanical parts varies with the item. 067- items on machine bill will have complete mechanical parts list and exploded view. Lower volume items will have little or none.

Information for the manual is provided by PE&M. Currently, the manual, part number status and general suitability of all 067- items is being reviewed by Ron Lang for Leon Orchard.

Chassis will be silk screened with the minimum amount of information necessary to support the item.





SUBJECT: SALES POLICY -

HARDWARE FOR MAINTENANCE OF TEKTRONIX PRODUCTS

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Attitude Policy

It is Tektronix' intent to provide both customers and our own Repair Centers with all of the information and hardware which they need for maintaining Tektronix products except that which is available from other sources. This Attitude Policy describes some of the specific policies and procedures which implement this intent.

First, some definitions:

Calibration Fixture - An item (instrument, tool, etc.) which is required to calibrate a Tektronix product via the Instruction Manual Calibration Procedure and which is not commercially available from another supplier.

Maintenance Hardware - An item which, although not essential for calibration of a Tektronix product, is useful for maintaining it, and which is not commercially available from another supplier.

1. Tektronix Repair Centers and customers have identical needs for calibration fixtures and maintenance hardware to support them in maintaining Tektronix products. All calibration fixtures will be available to Tektronix Repair Centers and to customers (e.g., Precision Divider for W Unit, 067-0503-00). All maintenance hardware which is available to Tektronix Repair Centers from Beaverton will also be available to customers (e.g., Plug-In Cycler, 067-0053-00; Special Wrench, 003-0364-00). All calibration fixtures and all available maintenance hardware will be listed in the Numerical Parts List.
2. All calibration fixtures and all commercially available items required to calibrate a particular Tektronix product will be listed in the Instruction Manual for that product. The calibration fixtures will be identified with a Tektronix 9-digit Part Number; the commercially available items with the name and nomenclature of at least one manufacturer (e.g., Triplet 630NA Multimeter).



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Date:

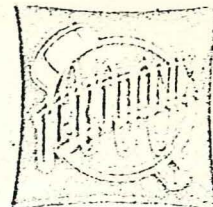
April 5, 1965

KSW

Attitude Policy (continued)

3. Whether or not individual items of maintenance hardware will be available will be determined separately for each item rather than by general ground rule (all which are available will be identified by a part number - even instruments). Most items in the maintenance hardware category will be ones that were originally developed for in-plant use. Items which are not needed for calibration will not be developed specially for Tektronix Repair Centers and customers unless it is impossible to do a specific repair job which occurs fairly often without a special item.
4. Commercially available items will be available to Tektronix Repair Centers from Beaverton only if the factory can buy them for substantially less than the Repair Centers can. Items which are available will be coded I in the Numerical Parts List (the R code will no longer exist) and will appear in the Maintenance Equipment Guide (or its successor). An example: Tool Chest, 003-0032-00. Exceptions will be made only if it appears that customers would find it a nuisance to have to search for a supplier of an inexpensive item (e.g., Jaco No. 125 insulated screwdriver, Tektronix Part Number 003-0000-00). More expensive items will not be sold (e.g., Multimeters).
5. Calibration Fixtures and Maintenance Hardware will differ from regular Tektronix products in three respects:
  - a. Their appearance will not be as nice (e.g., 067-0061-00, 517 Vertical Amplifier Test Jig).
  - b. Performance will be specified and checked only to the extent necessary to insure that it will do the maintenance job(s) it is intended for. Customers who purchase such an item for other purposes are on their own in investigating other performance characteristics (e.g., 067-0513-00, 30Psec Pulser; we will say its  $T_r$  is 30psec, but will not make any statement about the width of the pulse).





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HARDWARE FOR MAINTENANCE OF TEKTRONIX PRODUCTS

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ASW

Attitude Policy (continued)

c. Maintenance support will be limited. Occasionally a special device (i.e., one not already commercially available from either Tektronix or another supplier) is needed to calibrate a calibration fixture or item of maintenance hardware. Tektronix will not supply such special devices to either customers or to the field. A Calibration Procedure for calibration fixtures and maintenance hardware will be supplied unless such a special device would be required. When this is the situation, a statement will be sent with the item explaining that a calibration procedure is not available because equipment which is not commercially available is required in order to calibrate it. Items such as this may be returned to Beaverton for calibration. An example of such an item is the S-30 Delta Standard for calibrating 130 LC Meters. Calibration of the S-30 requires a special inductor. This inductor is not commercially available and therefore there is no calibration procedure for the S-30; it must be returned to Beaverton.

A parts list will be supplied with each calibration fixture and item of maintenance hardware. All electronic components will be listed by Tektronix Part Number. However, not all mechanical parts will be listed (replacements are seldom needed for most mechanical parts and the cost of keeping stock and/or records adequate to insure their availability is high). If a replacement is needed for a mechanical part which is not listed, ask Customer Service about it. It may or may not be possible to get one.

6. An Instrument Performance Check-Out Procedure will be available for each new type instrument and will be shipped with every instrument as an insert to the Instruction Manual. These procedures are intended to provide a standard for use during incoming inspection and will also be useful during the instrument's life for determining whether or not it needs calibration.





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SALES POLICY -

HARDWARE FOR MAINTENANCE OF TEKTRONIX PRODUCTS

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Attitude Policy (continued)

## 6. (continued)

This procedure will cover all of those characteristics stated in the Engineering Instrument Specification which can be directly observed during normal operation of the instrument (side panels on). The "performance requirements" in these procedures will be identical to the performance requirements in the Engineering Instrument Specifications.

7. The calibration procedure in Instruction Manuals will be patterned after the Calibration Training Procedures. A contents section at the start of the procedure will serve the dual purpose of indexing the calibration steps and of providing a check list for use by those experienced at calibrating the instrument involved. Field Recalibration Procedures and Factory Calibration Procedures will not be needed and therefore will not be available to either customers or the field. Factory Test Limits will continue to be available to the field but not to customers.
8. Describe your requirements for new or improved test fixtures and maintenance hardware to Product Information. Engineering and Manufacturing will provide needed items.

Procedural Policy

Obtain test fixtures and items of maintenance hardware by ordering from Customer Service by part number.

## CALIBRATION FIXTURES

Salable

Category A: Items of \$50.00 or more in price.

P.M.P.C. forecasts all items in this group to provide C.M.S. a 12 week or better quote. C.M.S. provides weekly order activity to P.M.P.C.

067-0036-00	067-0513-00
067-0050-00	067-0521-00*
067-0502-00*	067-0523-00*
067-0508-00	067-0544-00

\*Have machine bills of material

Category B: Items of \$20.00 to \$50.00 in price.

C.M.S. holds inventory and batch orders from P.M.P.C. P.M.P.C. forecasts parts and schedules build to enable C.M.S. to maintain an 8 week delay.

067-0099-00	067-0500-00
067-0102-00	067-0503-00
067-0103-00	

Category C: Items of less than \$20.00 in price.

C.M.S. holds inventory and batch orders from P.M.P.C. P.M.P.C. forecasts parts to enable C.M.S. to maintain a stock quote.

067-0025-00	067-0514-00
067-0069-00	067-0515-00
067-0072-00	067-0517-00
067-0104-00	067-0518-00
067-0501-00	067-0525-00
067-0505-00	067-0529-00
067-0507-00	067-0530-00
067-0511-00	067-0531-00



Calibration Fixtures

Salable

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Category D: Includes all other numbered calibration fixtures with low or non-regular usage. To be built on order with a 12 to 20 week delay expected.

TS/sl

*TS*

Ted Shaver

P.M.P.C.

SALABLE CALIBRATION FIXTURES  
PRODUCED BY PRODUCT MANUFACTURING

003-0507-00	Jumper--Anti-oscillation	\$ 1.75
011-0051-00*	12 pf. Stand.	10.00
-0053-00*	47 pf. Stand. BNC	10.00
012-0038-00*	Plug-in Ext. Cable Letter Series	20.00
-0050-00*	517 Interconnecting Cable	24.75
-0051-00*	507 - 551 Interconnecting Cable	28.50
-0064-00*	4 & 5 Series Plug-in Ext. Cable	23.00
-0066-00*	3 Series Plug-in Ext. Cable	23.00
-0067-00*	15 Pin Ext. Board	20.00
-0068-00*	20 Pin Ext. Board	25.00
-0069-00*	22 Pin Ext. Board	25.00
-0070-00*	50Ω Coax	10.50
-0077-00*	22 Pin Ext. Board	25.00
-0078-00*	28 Pin Ext. Board	20.00
-0079-00	22 Pin Ext. Board	20.00
-0080-00*	10 & 11 Series Plug-in Ext. Cable	24.00
-0100-00*	1A1 Plug-in Ext.	20.00
013-0005-00	Gain Adj. Adapter	15.00
-0013-00*	21A/22A Extension	20.00
-0015-00*	R Extension	11.00
-0021-00	524 Time Mark Sig. Gen.	35.00
-0025-00*	120Ω Plug-in Res. Board	2.25
-0028-00*	Timing Sig. Gen. for Sampling	60.00
-0034-00*	2 & 3 Series Extension	14.00
-0046-00	Dual Coax Series	7.00
-0055-00*	Letter Series Extension	14.50
-0075-00*	TU5/105 Adapter	20.00
-0077-00*	10 & 11 Series Extension	20.00
-0078-00*	105K Plug-in Res. Board	2.25



015-0001-00*	Delta Stand.	\$40.00
-0020-00	Cycle Load	30.00
-0033-00	Tube Ager 6AU6	340.00
-0034-00	Tube Ager 12BY7	340.00
-0035-00	Tube Ager 6AW8	340.00
-0036-00	Tube Ager 6DJ8 pairs	340.00
-0037-00	Tube Ager 6DJ8 halves	340.00
-0038-00*	TU5 Pulser	25.00
-0042-00	Current Sampling Resistor (175)	55.00
-0043-00	TU5 Pulser Package Complete	46.50
016-0011-00*	Coax Adapter Plate	3.75
-0031-00*	Current Probe Cal. Adapter	3.50
-0075-00*	N Cal. Adapter	55.00
067-0021-00	Drawings Bench	2.00
-0025-00	Drawings Wash Rack	2.00
-0026-01	Drawings Turntable	2.00
-0029-01	Drawings, Oven	2.00
-0031-01	Drawings, Cycle Rack	2.00
-0036-00	3.58 MC Color Burst Osc.	24.00
-0041-00	LF Piggyback for 190	125.00
-0049-00	Load Ballast	30.00
-0050-00	TU77	195.00
-0052-00	Step up Xfmr	40.00
-0054-00	Cycle Time Unit	75.00
-0061-00	517 Test Jig	1000.00
-0066-00	661 Test Loads	300.00
-0069-00	Cycle Load 1 Series	5.00
-0070-00	Cycle Load 580	5.00
-0071-00	6' 52Ω Cable	4.25
-0072-00	1' 52Ω Cable	4.00
-0076-00	Ω Picker	25.00

067-0086-00	Voltage Access Panel	\$ 6.00
-0114-00	4 to 1 Input for 502	10.00
-0500-00	Normalizer CRT	60.00
-0501-00	Strobe/Trig. Ext. Cable	20.00
-0502-00	Standard Amp. Calibrator	475.00
-0503-00	Divider DC	25.00
-0505-00	6 Series Extension	45.00
-0507-00	Grid Current Chec ker	15.00
-0508-00	50 $\Omega$ Amp. Cal.	250.00
-0510-00	647 Signal Coupler	Engr.
-0511-00	Variable Attenuator	25.00
-0513-00	30 pico-sec. TD Pulse Gen.	250.00
-0514-00	AC 0-10V Meter	20.00
-0515-00	50 $\Omega$ Termination	25.00
-0517-00	Two Trigger Per Pulse Kit for 111	15.00
-0518-00	Harmonic Modulator	45.00
-0521-00*	1M1	200.00
-0523-00*	Type 84	195.00
-0524-00	75 $\Omega$ Constant Amplitude Sig. Gen.	Engr.
-0525-00	Dual Input Cable, BNC	8.50
-0528-00	125 Power Supply Test Unit	20.00
-0529-00	1000: 1 Divider	15.00
-0530-00	Adapter Cable, Special 3 Pin	10.00
-0531-00	Adapter Cable, Special 4 Pin	10.00
-0532-00	Constant Amplitude Sine Wave Gen.	775.00
-0533-00*	Normalizer, 20pf UHF	10.00
-0534-00*	Normalizer, 24pf UHF	10.00
-0535-00*	Normalizer, 47pf UHF	10.00
-0536-00*	Normalizer, 12pf BNC	10.00
-0537-00*	Normalizer, 15pf BNC	10.00
-0538-00*	Normalizer, 20pf BNC	10.00
-0539-00*	Normalizer, 24pf BNC	10.00



067-0540-00*	Normalizer, 33pf BNC	\$10.00
-0541-00*	Normalizer, 47 pf BNC	10.00
-0544-00	Test Load for 647A	500.00
-0545-00	Peak to Peak Detector	Engr.
-0546-00	Vector Scope Test Unit	Engr.
-0548-00	Type 284	Engr.
-0549-00	Type 410 Input Adapter	Engr.
333-0120-00	511/514 Tuning Shield	20.00
-0362-00	515 Tuning Shield	19.50
-0363-00	524 Tuning Shield	6.50
337-0440-00	R515 Tuning Shield	4.05
-0441-00	122 Tuning Shield	5.55
-0443-00	112 Tuning Shield	.65
-0444-00	121 Tuning Shield	.90
-0537-00	131 Tuning Shield	1.80
067-0557-00	30 pf normalizer	10.00

\* - High volume item--has machine bill of materials

NONSALABLE CALIBRATION FIXTURES  
PRODUCED BY PRODUCT MANUFACTURING

067-0023-00	GR Test Cart	
-0024-00	190 Test Cart	
-0032-00	GR 212 Freq. Std. Gonset	
-0048-00	TU76	
-0053-00	A-Z Plug-in Cyclor	
-0051-00	TU75B	
-0062-00	175 Resistor Checker	
-0064-00	52 $\Omega$ 6' BNC Cable	
-0065-00	TU4	
-0067-00	125 Dummy Load	
-0068-00	128 Dummy Load	
-0073-00	50 $\Omega$ Pi Attenuator Cable	
-0075-00	50 $\Omega$ Pi Attenuator	
-0078-00	575 Cal. Adapter	
-0081-00	Mixer Rectifier	
-0082-00	Variable Attenuator	
-0083-00	"O" Unit AC Coupler	
-0085-00	507/517 Cycle Delay Unit	
-0087-00	Nuvistor Test Jig	
-0088-00	DC Reference Source	
-0089-00	"M" Unit Quad Coupler	
-0090-00	502 Dual Input Coupler	
-0091-00	82 Tuning Shield	
-0092-00	310 Tuning Shield	
-0093-00	310A Tuning Shield	
-0094-00	555 Tuning Shield	
-0099-00	AC Supply for Pocket Pulser	20.00
-0102-00	Time Mark Generator	84.00
-0103-00	Wave Form Generator	77.00
-0104-00	Generator Holder	5.00
-0112-00	50 $\Omega$ Bridge	
-0113-00	Current Transformer Test Jig	



067-0527-99	Peak Line-Voltage Comparator	
-0542-99	Sine Wave Generator 1Hz-1MHz	
-0543-99	DC Voltage Bridge	
-0547-99	49 $\Omega$ Bridge	
-0550-99	Type 410 Power Supply	
-0551-99	Type 410 ECG Continuity Checker	
013-0046-00	Dual Input Switch UHF	7.00
015-0018-00	570 MA/div Checker	
-0019-00	575 Series Resistor Checker	
-0064-00	Wave Form Generator	



## Inter-Office Communication

To: Dean Potticary

Date: February 3, 1967

From: Don Pratt

# BEAVERTON

Subject: Salable Calibration Fixtures, last 3 A.P.'s

	<u>607</u>	<u>608</u>	<u>609</u>	<u>Total</u>	<u>Average</u>
067-0036-00	2	0	0	2	1.33
067-0041-00	0	0	0	0	0.00
067-0050-00	0	2	0	2	1.33
067-0052-00	0	2	0	2	1.33
067-0071-00	0	10	0	10	3.33
067-0114-00	7	8	9	24	8.00
067-0500-00	4	21	40	65	21.75
067-0501-00	0	10	0	10	3.33
067-0502-00	8	12	23	43	14.33
067-0503-00	10	39	0	49	16.33
067-0505-00	1	12	0	13	4.33
067-0507-00	3	11	10	24	8.00
067-0508-00	11	12	14	37	12.33
067-0511-00	7	32	0	39	13.00
067-0513-00	8	9	6	23	7.66
067-0514-00	0	10	0	10	3.33
067-0515-00	4	3	0	7	2.33
067-0517-00	0	13	4	17	5.66
067-0518-00	4	10	20	34	11.33
067-0525-00	18	75	0	93	31.00
067-0529-00	5	15	20	40	13.33
067-0530-00	0	10	0	10	3.33
067-0531-00	0	10	0	10	3.33
067-0532-00	0	0	7	7	2.33
067-0540-00	1	5	12	18	6.00
067-0544-00	0	11	8	19	6.33



## Salable Calibration Fixtures, incoming orders 1966

2/3/67

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u>	<u>Average</u>
067-0036-00	1	2			2	1	1		2	1	2		12	1.00
067-0069-00				2			1						3	.25
067-0500-00	2	20	3	3	1	4	4	1	7	2	4	21	72	6.00
067-0501-00		2							1	2		10	15	1.25
067-0502-00	79	7	18	21	10	20	14	10	10	9	8	12	218	18.16
067-0503-00	4	7	12	2	2	6	8	5	6	7	10	39	108	9.00
067-0505-00	1								1		1	12	15	1.25
067-0507-00	1	1	1	4	1	3		3	2	2	4	11	33	2.75
067-0508-00	8	7	13	15	4	5	2	10	11	13	11	12	111	9.25
067-0511-00	4	6	10	8	5	7	4	9	5	5	7	32	102	8.50
067-0513-00	7	7	6	3	5	4	6	5	6	12	13	9	77	6.41
067-0514-00	1				2			3				10	16	1.33
067-0515-00			2	4			4	2	3	2	4	3	24	2.00
067-0517-00				1	2	1	1			3		13	21	.91
067-0518-00	4	6	3	6	5	3	3		3	8	4	10	55	4.58
067-0525-00	23	10	21	14	10	52	8	34	39	36	18	125	392	32.66
067-0529-00			1	4	3	1	2	5	6	1	5	16	44	3.66
067-0530-00				4	3		4	2	3	4		10	30	2.50
067-0531-00				4	4		5	2	1	2		10	28	2.33
067-0540-00						6		6		7	1	5	25	2.08
067-0099-00	1			1		1				1	1	10	15	1.25
067-0102-00	6	1	2	4	1					10	1	12	37	3.08
067-0103-00	2	1	2	3	6			1		8	1	19	43	3.58
067-0104-00	4		3	3						19		28	52	4.33
067-0114-00											1	7	8	.66

## MEMO

DATE: 2-2-67

TO: Routing List DEPT: \_\_\_\_\_

FROM: Norm Brown DEPT: P.E./Ind. Supt./Prototype Support

SUBJECT: CALIBRATION FIXTURE PART NUMBERS ASSIGNED BY PROTOTYPE SUPPORT.

<u>Part No.</u>	<u>Corp. No.</u>	<u>Description</u>
067-0036-00	---	Color Burst Oscillator
067-0500-00	033500	560 Series CRT Deflection Capacitance Standardizer
067-0501-00	037500	Strobe/Trigger Extender (for 4S1)
067-0502-00	037700	Standard Amplitude Calibrator
067-0503-00	037900	Precision D. C. Divider
067-0504-00	---	Not Assigned
067-0505-00	038100	Series 6 Extender
067-0506-00	038300	Depleted - Replaced by Inst. Type 191
067-0507-00	038500	Operational Amplifier Grid Current Checker
067-0508-00	038700	50 $\Omega$ Amplitude Calibrator
067-0509-00	038900	Deleted - Replaced by Inst. Type 106
067-0510-00	---	Deleted
067-0511-00	039300	Variable Attenuator
067-0512-00	---	Not Assigned
067-0513-00	041100	Tunnel Diode Pulse Generator
067-0514-00	041300	Meter, A. C. 0-10 volts
067-0515-00	---	50 $\Omega$ Termination
067-0516-00		Deleted
067-0517-00	041500	Two Triggers Per Pulse Mod. for 111
067-0518-00	041700	Harmonic Modulator
067-0519-00	---	Deleted
067-0520-00	---	Deleted
067-0521-00	21900	Calibration Fixture, Load/Pulser for Type 530-540 and 550 Series
067-0522-00	023300	Deleted - Replaced by 067-0544-00
067-0523-00	015700	Calibration Fixture for Type 580 Series
067-0524-00	040300	75 $\Omega$ Constant Amplitude Signal Generator
067-0525-00	---	Dual Input Cable, BNC
067-0527-99	---	Peak Line Voltage Comparator
067-0528-00	---	125 Power Supply Test Unit
067-0529-00	---	1000: 1 Divider
067-0530-00	---	Adapter Cable, Special 3 Pin



MEMO TO: Routing List  
SUBJECT: Calibration Fixture Part Numbers

February 2, 1967  
Page 2

<u>Part No.</u>	<u>Corp. No.</u>	<u>Description</u>
067-0531-00	---	Adapter Cable, Special 4 Pin
067-0532-00	811700	Constant Amplitude Sine Wave Gen.
067-0533-00		Normalizer, 20 pf UHF
067-0534-00		Normalizer, 24 pf UHF
067-0535-00		Normalizer, 47 pf UHF
067-0536-00		Normalizer, 12 pf BNC
067-0537-00		Normalizer, 15 pf BNC
067-0538-00		Normalizer, 20 pf BNC
067-0539-00		Normalizer, 24 pf BNC
067-0540-00		Normalizer, 33 pf BNC
067-0541-00		Normalizer, 47 pf BNC
067-0542-99		Sinewave Wave Generator 1Hz-1M #2
067-0543-99		D. C. Voltage Bridge
067-0544-00		Test Load Unit for 647 & 647A Oscilloscope
067-0545-00		Peak-to-Peak Detector
067-0546-00		Vector Scope Test Unit
067-0547-99		49 $\Omega$ Impedance Bridge
067-0548-00		Amplitude Time Calibrator
067-0549-00		Type 410 Input Adapter
067-0550-99		Type 410 Power Supply
067-0551-99		Type 410 ECG Continuity Checker

Norm Brown  
P.E./Ind. Supt./Prototype Support

NB: id

Copies to: Leon Orchard  
Ted Shaver  
Joe Mondell  
George Smith  
John Mulvey  
Chuck Samuel  
Don Poindexter  
Deane Kidd



# MEMO

DATE: January 13, 1967

TO: Leon Orchard DEPT: PE/PE&M  
FROM: Ron Lang DEPT: PE/PE&M  
SUBJECT: 067 Manual Review Schedule

<u>Test Unit No.</u>	<u>Name</u>	<u>Estimated Completion of Review</u>
067-0521-00	IM1	Week 04
067-0502-00	Std. Ampl. Calibrator	Week 05
067-0525-00	Dual Input Cable BNC	Week 06
067-0508-00	50 $\Omega$ Ampl. Calibrator	Week 07
067-0513-00	30 psec Pulser	Week 08
067-0523-00	84	Week 10
067-0511-00	50 $\Omega$ Variable Attenuator	Week 11
067-0503-00	Precision D.C. Divider	Week 12
067-0518-00	Harmonic Modulator	Week 13
067-0500-00	560 Series CRT Standardizer	Week 14
067-0515-00	50 $\Omega$ term	Week 15

The remaining will be scheduled at a later date.

*Ron Lang*  
Ron Lang

RL:ao

cc: John Mulvey  
Bob LeBrun  
Warren Collier✓