FOR U

Dick

MSG103 CHI 12/28 TO INST SAELXXX SALES FM BOB SEABERG

MSG103 CHI 12/28 TO INST SAELXXX SALES FM BOB SEABERG

PLS ADVISE TOMORROW QUOTE ON SHPG DELAY ON 575 WITH MOD 122A Louis 135.

AND 575 WITH MOD 122C. THX PLS ADV CUST. NAME

MSG 1312 TO BOB CHICAGO FROM DICK TAYLOR INSTR SALES

RE MSG 103

PLEASE QUOTE 575 MIXX MOD 122A IS PRICED AT \$135. ADDIT. WITH SHIP

CAPABILITITY 6 WKS ARO.

575 MOD 122C IS PRICED AT \$1/// DXX\$200. ADDIT WITH SHIP CAP 8 WEEK S

ARP.

Inter-Office Communication

Vic Fricke

December 8, 1960

John West

Solid State Circuitry Instrumentation

Dear Vic:

On a recent call to Norden Laboratories located in White Plains, I discussed with a physicist in the Transistor Department instrumentation needed for a new Semiconductor Department. Norden apparently plans to do extensive work in the miniaturized solid state circuitry field.

The gentleman I talked with was quite interested as to what our plans are to assist in supplying perhaps a modified 5/5. He also wanted to know it any other company has requested modified transistor equipment adaptable to solid state circuitry.

He is interested in more vertical sensitivity in the collector current range, such as I muamp. He would also like 0 to 400 v available from the collector sweep at I amp. He mentioned that while working for Westinghouse, he used a 575 that had this 400 v with I amp available from the collector sweep.

One more question, Vic, do we have any special accessories available for transistor people working with our 575 on solid state circuitry.

This gentleman would be interested in two modified 575's which could be adaptable to his work. I mentioned to him our feelings toward modified instruments, but will leave it up to you what information can be passed on to him.

Best.

ECETAR

John

JW: dib

P.S. Would it be possible to let me know by TWX what information is available.

John

12/19 QUOTED MOD 122C 575 MOD 122C 1200 9 EXTRA 8 WKS ARO

1940



LONG ISLAND

-Shoot Mail

JUN 21 1961

RECEIVED

TEKTRONIX, INC.

Speed Mail

TO: DICK WINN

Subject: 575 MOD 122C

* IMPORTANT *

This correspondence has been assigned to your department for answering. Please submit a copy of your answer with reference No. School Clearly shown to the Customer Service Office.

CHUCK NOLAN WAS SUPPOSED TO FORWARD

A SPEED MAIL OF MINE RE: TIME TO PERFO MODIZZC ON A CUSTOMERS SCOPE, WHAT'S

DOING? ARE WE FIELD MOD KITTING THIS

BEATING DOWN THE DOOR

Please transmit White and Green Copies — White Copy will be returned.

REGARDS TENO.

Reply

June 28, 1961

Hello Steve,

Looks like you'd better put a brace on that door.

Although we do plan on making Mod 122C into a Field Mod, it's going to be about four months before we have some built and into stock (providing we don't run into trouble).

On the installation time and price, all we have is a rough guestimate. It looks like it will cost about \$170 and take about 8-10 hrs. to install (by a trained technician).

These times and figures probably aren't very accurate, but they should give you something to tell your customers. If you'd like more information on the mod, don't hesitate to write.

So Long

Dick

DW: 1s

cc: Ted Brandt George Edens Chuck Nolan



DALLAS

Date: April 28, 1961

To: Chuck Nolan

Subject: Mod 1220 for 575

Dear chuck,

Is mod 1220 only for production instruments,

Or will there be a fielded the to do

this to a 575. T. I. has an interest

In doing this to a few scopes used in bene

Semiconductor Division. If this will be done

Semiconductor Division. If this will be done

In this Manner, any price and availability

on it? Also, What is price and availability

of doing it on production Instrument:

of doing it on production Instrument:

Further, Could you clarify what mod 122A is

Further, Could you clarify what mod 122A is

Further, Could you clarify what files are deficient.

And was there a 122B. Bur files are deficient.

Please transmit White and Green Copies — White Copy will be returned.

Texth Westhum.

Reply

May 9, 1961

Dear Keith:

Mod. 122C as such is intended only for new instruments on the original order. Dick Winn has been considering this as a field mod. However, I think the story is a little bit discouraging, but I will send him a copy of this so that he may answer this aspect of it.

As a new instrument we have been charging \$200 additional.

The difference between Mod. 122C and Mod. 122A, is that Mod. 122A does not include the high voltage diode check portion. Actually, we would almost rather not make Mod. 122A available unless people just definitely do not want the pobbibility of checking peak inverse on a diode.

It might be well to point out that the high voltage which is available for checking inverse diode breakdown is controlable by the same Variac and will provide up to about 1500 volts peak voltage. It is from a rather high impedance source though (approximately 2 megn). This means if you try to draw even a mil from the supply you end up with no volts out.

We did at one time make a Mod. 122B; however, there seemed to be very little interest. It had nothing to do with the 575. Actually there is an "S" Unit with Mod. 122B in it circulating around in the field somewhere.

Hope this helps,

Retain Green Copy — Return White Copy to Originator

ees Diek Win

5-9-61 HAL DOSER WESTING HOUSE TRANSISTOR N.E.L. Ec 300 V Icc 20 4 NERDS MOD 122C IN575 CAN INTERRUPTED

ENDIGOTT



Speed Mail

Date: May 3,61

Recently we received a 575 5/N 3314, MODIZZC which has withit a special booklet which gives a parts list for mod. 122 cete al have noticed that the Mransister setates switch is of a higher greatity than those used previously in the 575, I believe that this new subtich has a different Yek & buttown find no trace It banne. Would you please check & see if 5W 730 H(260)197) has been replaced on if this new switch has astroliffent part number? Thank Muchly,

Please transmit White and Green Copies — White Copy will be returned.

Reply

Hi Berry Your speed mail has been reforwarded to Special Broducts. We (Engineering) have had a mod pending for at least a year suggesting a new switch (SW 730) but so for there have been very few reported failures or problems from the field. He have surchased a small quantity of new switches for this new mode and are using them in MOD 122C which Special Products controls. The switches do not have a regular Tek # so fare. I am having one sent to your attention. If there is a problem with 260-197 please send that info through your regular channels. It will assist as in getting a mod for the new switch.

Retain Green Copy — Return White Copy to Originator Regards Russ Fillinger



PORTLAND



Date: May 15, 1961

Jim Johnson - Stamford

Subject: Type 575, Mod. 122C

Dear Jim:

Per your phone conversation last week with John Duracks, here are corrected mod insert sheets and a little writeup which John did.

Hope these will be of some help.

Best,

Dorothy Van Maren

Enc.

Please transmit White and Green Copies — White Copy will be returned.





PORTLAND

Speed Mail

Date: May 15, 1961

To: Ralph Ebert - Chicago

Subject: Type 575, Mod. 122C

Dear Ralph:

After I sent you the info on Type 575, Mod. 122C (per Will's request) we came up with a couple of minor corrections to the mod insert sheets, and John Durecka dug up a little writeup which may be of some help.

Best,

Dorothy Van Maren

dvm

Please transmit White and Green Copies — White Copy will be returned.



May 19, 1961

Keith Westhusing TEK Dalles

Dick Winn for Customer Service (your Speed Mail to Chuck Nolan 4/28/61)

575 Increased Collector Volts Mod (122C)

Hello Keith

Here's the story on the Increased Collector Volts Field Mod Kit the way it looks from here.

We've had a number of requests for this mod (about 15 including yours) and we're in the process now of making the decision as to whether or not we want to make the mod kit available.

I've sent "feelers" out to the FE's who have requested the mod, explaining the cost and complexity and asking them to check with their customers to see if they would still be interested, knowing all the facts. (Enclosed find copy).

It would help a lot if you could check with your customers and let me know their response.

Regards

Dick

DW:ls 1 Encl. / cc: Chuck Nolan

An identical fetter was also sent to Dan Lenour



Inter-Office Communication

. To:

Date: March 6, 1961

From:

Dick Winn for Customer Service

Subject: 575 Increased Collector Volts Field Mod

PORTLAND

Hello,

We're ready to make a decision on making the 575 Increased Collector Volts available in the form of a Field Mod. Since the mod is a bit more expensive and complex than usual, we felt we should double check with the FE's who originally requested the mod and see if, after presented with the facts, the customers involved were still interested.

The proposed mod will increase the available collector sweep voltage to 400V and will provide a 2 KV source for diode PIV testing.

It will involve replacing the Hor. Sens. Switch, Peak Volts Range Switch, Polarity Switch and A-B Switch; also, the addition of a HV transformer, a rectifier stack, possibly a new front panel (overlays could be used), conversion of the full-wave bridge to a half-wave bridge and the addition of other misc. compensation capacitors. The approximate installation time (by a trained technician) would be in the order of 8-10 hrs. The cost of the kit would be approximately \$170.00.

If you feel that your customer would still be interested, after knowing the complexity and cost, I would really appreciate it if you would drop me a note. If the response is favorable, we will jump right into the project of getting this out.

Regards

Dick Winn

Dir: 1s

CHUCK NOLAN

(239)

BE 1061 5-22 ATTN CHUCK SPENCER DETROIT FM RON GOARD INSTR SALES

- 1. 55-30762-1 SHIPPED FRIDAY MAY 19.
- 2. RE-MOD 122A FOR 575 S/N 1289 -- NOT TOO PRACTICAL AS FIELD MOD -REQUIRES 2 ADD. SWITCHES, GERMANIUM RECTIFIER AND NEW PANEL.

 SOME THOUGHT BEING GIVEN TO FUTURE MOD -- ESTD \$180 FOR PARTS
 8 10 HOURS LABOR.
- 3. MOD 122A INCREASES HORIZ VOLTS/DIV TO 50.

AVAILABILITY 575 MOD 122A 6 WEEKS ARO \$135. ADDITIONAL 575 MOD 122C 6 WEEKS ARO 200. ADDITIONAL

MOD 122A IS INCORPORATED IN MOD 122C -- CHUCK WILL SEND DETAILS



PORTLAND

Speed Mail

Date: May 23, 1961

To: Chuck Spencer - Detreit

Subject: Type 575, Mod. 122A and 122C
Your twx to Ron Goard 5/22

Dear Chuck:

Ron has asked that we send you information on the 575, Mod. 122A and 122C. Enclosed is a write-up on 575, Mod. 122C, and, as you will note, Mod. 122A is incorporated into it.

If we can be of further help, lat us know.

Best regards,

Chuck Nolan

dym Enc.

ce: Ron Goard

Please transmit White and Green Copies — White Copy will be returned.



INSTRUMENT MANUFACTURING STAFF ENGINEERING

EVALUATION RESULT Date August 14. 1961 Project No. 61 Instr. Type or Tek No. & Name | 575 with mod 1220 Dept. Special Products Evaluation Requested by ___ Chuck Nolan Project Engineer Larry Cummings

Routing Dick Wells Jerry Shannon, Wally Blackburn, Glenn Pelikan, Glenn Pelikan

Problem:

Field reports indicate high voltage arc-over in 1.5 KV switch used in 575 mod 122C.

Conclusion:

After 19 hours of operation at 90 to 95% Relative Humidity, 38°C (100°F) ambient temperature there was no arcing in the high voltage · switch.

Nature and Result of Evaluation: (Supporting Documents Attached)

Humidity chamber and 575 with mod 122C were used to make the test.

Larry Cummings

IMSE/Inst. Eval.

Larry Cummings

SAR

INSTRUMENT MANUFACTURING STAFF ENGINEERING

EVALUATION REQUEST

Project No. 33 61 A 1

	FOR I.M.S.E. USE ONLY				
Instr. Type or Tek No. & Name	Date Recd 8/10/61 Tentative Comp.Date 8/14/61				
575 mod 122C	Comp. Date 8/14/61 Proj. Eng. Larry Cummings				
	Item Class No.				
Where Used 575	TEK Spec. No.				
	IBM Stock Balance				
Requested by:	Usage Per Allotment				
Chuck Nolan	days, Minimum Delivery				
Department:	Vendor				
Special Products	Vendor Part No.				
	Vendor Spec. No				

NATURE, EXTENT AND HISTORY OF PROBLEM: (By Requesting Organization)

Field reports indicate high voltage arc-over in 1.5KV switch used in 575 mod 122C.

vm '

To: Rudy Vuksich Date: Dec. 22, 1960

From: Chuck Nolan

Subject: Type 575, Mod. 122C

This instrument is a new version of the 575. It incorporates facilities for testing inverse voltage breakdown in diodes. The actual test voltage is variable from zero to 1500v at a maximum current of lma.

There is also A 6-400v, @.5amp collector supply provided for testing high voltage transistors.

cn/dvm 12/22/60

Ron Bell February 21, 1961 Cleveland Chuck Nolan Type 575, Med. 1220 Your IOC of February 14, 1961 Dear Ron: I am afraid I'm not making myself too clear. Actually, Mod. 122C includes Mod. 122A, plus the high voltage diode check mod. We are rather hoping to eliminate Mod. 122A. Therefore the price on 575, Med. 122C is \$200 additional. Whipping capability would be about 8 weeks aro. Hope this helps. Best regards, Chuck CN/dvm cc: Keith Williams Bill Ward George Ednns



Inter-Office Communication FEB 17 11 15 AN ST

To:

Chuck Nolan

Date:

February 14, 1961

From:

Ron Bell

Subject:

Type 575

Mod 122A and 122C

Dear Chuck:

Thanks for the clarification on the 575 Mod 122. It's just what I needed. Now I would like price and delivery information for both 122A and 122C.

The Jack & Heintz application for the modified 575 is to measure EBO on silcon controlled rectifiers with the gate of the controlled rectifier disabled. Collector current will increase with an increase in collector voltage up to a point, at which time the SCR will fire and the voltage drop across the device is practically constant with increase in voltage (see sketch at bottom of page).

They are talking in terms of 10-50 mils of current at E_{0} . I thought Mod 122C would do it for them , but Mod 122A looks like sure thing.

Best regards,

Ron

RSB/jk

cc: Keith Williams

Bill Ward

Collector Current vs Collector Voltage W SCR gate disabled.

EBO (on the order of 400-700 valto

50 to 100 ma

February 10, 1961

Ron Bell Cleveland

Chuck Nolan

Type 575, Mod. 122A and 122C

Dear Ron:

Don't try to tell too much from these lists. The 575, Mod. 122A indeed increases collector volts to 400v at .5 amp. Mod. 122G embodies everything in 122A, plus a separate position of the Polarity switch which makes available by means of a push-button 1500v of A.G. at maximum of 1 mil to the collector binding post located on the test panel.

Mod. 122B is obsolete due to, among other things, no activity. (Nothing whatsoever to do with the 575.)

As you know, we in this department do not entertain working on customers' instruments. We will pass on a copy of your letter to Dick Winn, which he will add to his collection and perhaps some day there will be available either a field mod or equivalent.

It might be interesting, if you had the time sometime, to spell out exactly what Jack and Heintz, Inc.'s problem is in the way of actual comments on volts and current requirements.

Mod. 122C, incidentally, was intended only for investigating inverse diode characteristics.

Best regards,

Chuck

CN/dvm:nr

cc: Dick Winn
Bill Ward
George Edens
R3



Inter-Office Communication

FEB 9 9 19 AM '61

TEKTRONIX, INC.

Date: February 6, 1961

GLEVELAND

To: Chuck Nolan

From: Ron Bell

Subject: 575, Mod 122

Dear Chuck:

I think I have finally gotten myself straightened out on high voltage collector modification on the 575. As I understand it, there are two or three possible modifications. One of these is 122A which increases the collector voltage to 400 volts; another is 122C which increases collector voltage to 1500 volts; and I presume there is a 122B for collector voltage between the other two. Incidentally, all I have to work with at the present time is your special products sheet dated 7-14-60 and a few off-hand remarks by Keith Williams.

My problem is Jack & Heintz, Inc. in Cleveland who need a 575 with a high voltage collector circuit for measuring $\frac{E}{BO}$ on silicon controlled rectifiers.

The 400 volt mod just barely meets their requirements. They would like a little more voltage but the 1500 volt seems to be considerable more than they need.

What I need from you is price, delivery and specifications on Mod 122.

I would also like your opinions on the feasibility of having the Jack and Heintz 575 returned to Portland for modification rather than ordering a brand new instrument. Here again, I would like some ball park figures to throw at Jack & Heintz.

Best regards,

RSB/jk

cc: Keith Williams
Bill Ward

HART IS PAIDE ANDDELIVERY ON 575 WIF4 2 KV PIV MOD. ALSO WHAT IS

ME MSG 77 WILL ADV

RE MSG 77/

SUPPLY. THIS IS AVAILABLE 12 WKS ARO AND PRICED AT \$200 ADDITIONAL.

October 19, 1960 Kermit Fleck Syracuse Chuck Nolan 575 Modification Speed Mail of 10/14 Dear Kerm: 1. We have pretty much decided that the 575 which will have the 2000 volt diode check supply would, in addition, have Mod. 122A as part of its features. 2. We have been quoting up to now, \$200 additional. 3. We really are not geared up to handle field mods of this sort. It's very possible that if enough requests come in, Customer Service would provide a mod kit to take care of this. I do not know what the price would be if the instrument were sent back to Portland. 4. The high voltage diode check mod has a 2 meg. resistor in series with the transformer, therefore the current will be a function of output volts from the transformer and the load impressed at the terminals. In other words, under short circuit conditions with a full 2kv available at the terminals, the current would be limited to 1 milliamp. 5. Mod. 122A is required from the standpoint that the horizontal amplifier sensitivity needs to be reduced by a factor of 10 in order to get the display on the screen. 6. I can think of a lot of questions, but I don't have the answers. Now I know why you presented me with that lovely album, "Songs of Couch and Consultation. " Your erstwhile friend, Chuck CN/dvm cc: Bill Kaldke Ren General



SYRACUSE



Date: October 14, 1960

To: Chuck Nolan

Subject: 575 Modification for 2000 volts
Collector Supply

RECEIVED

OCT 17 1960

TEKTRONIX, INC.

Dear Chuck:

How much for a standard 575, modified to have 2000 volts collector supply?

How much additional to modify a 575 Mod 122A to have the 2000 volts collector supply?

Do the same prices apply if the customer sends his instrument back to Portland to have the 2000 volt collector supply modification installed?

What current capability does the 2000 volt collector modification have?

Is Mod 122A required in a 575 before the 2000 volt collector supply may be installed?

Any other questions you may think of that I have forgotten, please feel free to answer.

Best regards,

Kerm (m

190100

Please transmit White and Green Copies — White Copy will be returned.





Inter-Office Communication

AUG 4 1960 TEXTRONIX, INC.

To: Will Marsh

Date: August 2, 1960

From: Karm Fleck

SYRAGUSE

Subject: 575 Collector Voltage Increase

Dear Will:

Bill Comstock, G. E. Development Engineer, working on Zener diodes, expects to build devices which would sener up to about 600 volts.

He would like very much to see a modification on our 575, or a Mod Kit, which would give him at least 1500 volts on the collector supply, capable of delivering at least 100 microsmps.

Another group here doing development on controlled rectifiers has a 575 Mod 122A on order, but they also would like very much to see a Mod Kit of this nature.

Out here, Will, it looks like the cost of steak and voltage requirements are both soing up.

Best regards,

Kerena

nr

Paul Magnusson October 24, 1960 Palo Alto Chuck Nolan Type 575, Mod. 122C High Voltage Collector Sweep Dear Paul: Have been so busy that your request has been overlooked. Actually I had planned on discussing this further with you when you were here, but didn't. As you will recall, we did demo and discuss the 575 with a 2KV diode check. This voltage is controllable, by the regular Variable Collector supply control, from zero to 2KV. Present thinking will limit the load to about one ma @ 2KV (2 megn in series.) Anyhoo! the unit we can offer will have the above capability plus a 400v collector supply and three added ranges to the Horizontal Sensitivity switch. It would cost an additional \$200. Delivery approximately 12 weeks aro. (Mod. No. 122C) Sorry to be so tardy, Paul. Best, Chuck CN/dvm Ron Goard Lee Cooper George Edens



Inter-Office Communication

RECEIVED SEP 1 2 1960

TEKTRONIX, INC.

To:

CHUCK NOLAN

Date: SEPTEMBER 9, 1960

From:

PAUL MAGNUSSON

Subject: 575 HIGH VOLTAGE COLLECTOR SWEEP

Dear Chuck:

Rheem Semiconductor Corporation has approached us on a 575 Special.

They want a collector sweep of up to 1000V at low current. If we maintained our 200 Watt supply capability they would have way more current available then necessary. They were talking about a few mills at 1000V.

The horizontal sensitivity should be changed to 100V/Div maximum sensitivity. No other changes are required.

Regards:

PM/its NR

THE CONTROL AB LES BY THE RECULATION OF THE STATE OF THE PROPERTY OF THE PROPE THE STS WITH A ZEV DIODE CHECK, THIS YOU HERE THE STS WITH A ZEV DIODE CHECK, THIS YOU HERE STS WITH A ZEV DIODE CHECK. YOUR REQUEST, MAS BEEN CONTRACTOR OF THE PARTY OF THE PAR Action of the man way with the property of the ANDER BUT DIDINT HOW WHEN YOU WHEN YOU WARDE THE STS TOOLSHOPY CONTENTS FROM THE FROM THE POOL SUPPLY TO SUPPLY 15 CONTROL SPINISH WILL MESSEN WAS TO ABOUT We would like a quote on a single unit. May 100 1 THE UNIT WE AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM DIVIS D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL BUT ON SUPPLY

ME CAPABBELLIM D. AND V COLL B ANY HOO! THE UNIT AD DED BANGES TO THE HOOK SUPPLY

ABOVE CAPABLEE AD DED BANGES TO THE HOOK SUPPLY PRESENT ANY HOO! THE UNIT WEST CANDERERS. ROVE CAPABILITY ADDED IT WOULD LOST AND IT. SENS. HONDER DELINOUS PORT TOWNS.

UNION



Speed Mail

Date: July 5, 1960

To: George Edens

Subject: Baird Atomic Curve Tracer & 502

Dear George,

It was suggested by two of my customers that we include the 400 V collector voltage mod as a standard part of our instrument.

The 575 and 175 gave them wider range of usage than the Baird Atomic curve tracer, and they agreed that having a 575 and 175 was the most practical.

It was suggested we make the 502 Mod 407 a standard instrument with two weeks' delivery.

Best regards,

Deck mal

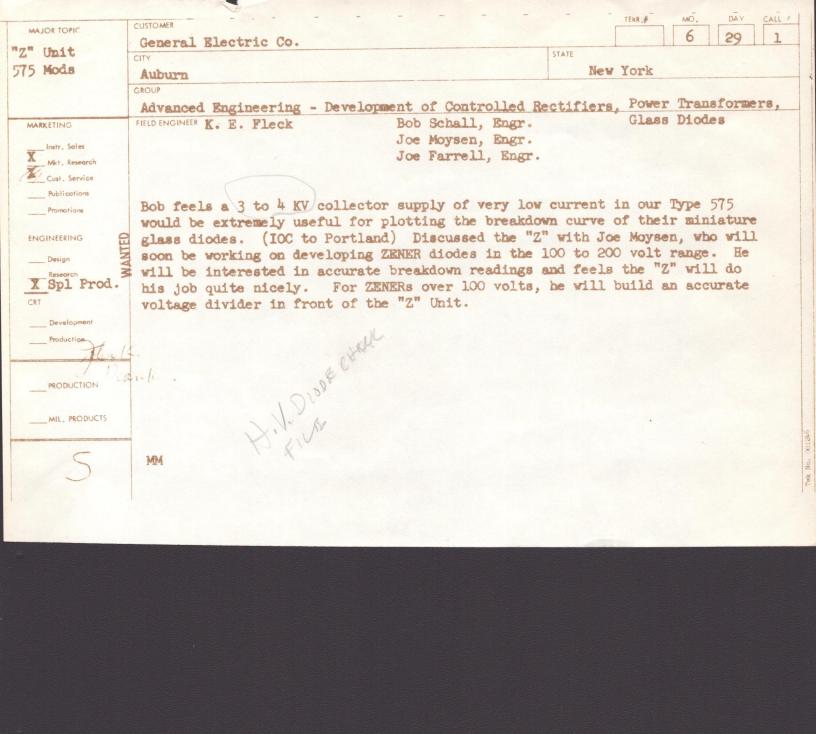
Dick Hahn/mal

ec: S. H. Pyle

Service May Ander

Please transmit White and Green Copies — White Copy will be returned.

Mell gass your comments on to Church not so was considering a special mod to make 1kv to a special mod to make 1kv to on 575 for diss breakdown testing. Any comments? Byt wishing leave Edlar





OCT 24 1960

TEKTRONIX, INC.

DATE

10-19-60

TO

Bell telephone Bell Telephone Lebersterics 463 Mest Street Bew York, M. Y.

BOX 831

PORTLAND, OREGON

CY 2-2611 - TWX PD 311

PLEASE DIRECT ORDERS AND INQUIRIES TO:

TEKTRONIX , INC.

age willis Ave. Albertson, L. I., H.Y. Fleases 7-4830

ATTENTION: Mr. Cy Bornblows

REFERENCE

IN REPLY TO YOUR RECENT REQUEST WE TAKE PLEASURE IN SUBMITTING THE FOLLOWING QUOTATION:

3KA BIA Subbya

18-12 week \$200.00

Instrument to be shipped to Fortland for reworking.

Tehtronia will pay transportation one way.

TB:ja 10-19-60

oc: Portland

Chuck Nolan

WE SINCERELY APPRECIATE THIS OPPORTURITY TO BE OF SERVICE

Ted Brandt, Field Emgineer

Estimated Shipping IN WEEKS AFTER Jerry Racanelli Union

October 19, 1960

Chuck Nolan

Type 575 High Voltage Collector

Dear Jerry:

Vic Fricke passed on your Speed Mail to him regarding high voltage collector supply on the 575. Here is what we plan to do:

We would make available a 575 which would have three collector voltages available. i.e., 20, 200, and 400 volts. There would also be the possibility of switching in a small transformer to supply voltage to the collector binding post on the transistor test board. This transformer would have its primary driven by the existing Variac. Thus the secondary voltage could be varied from 0 to 2kv. There would also be a push button in series with the primary which would provide the voltage to the terminal when depressed. Otherwise there would be no voltage present. Since this would be a.c. voltage, it would make no difference which way the diode was oriented during test except that reversal of diodes would cause reversal of presentation. Further, since the diode would conduct revenly in one direction, we would have, in effect, a clamping point at zero volts.

The next deviation from a standard 575 would be that the Horizontal Sensitivity switch would be new (adding three positions to its ranges.) Chances are pretty good that if enough requests are made to Customer Service that a field mod might be effected. However, that's not up to me. Actually it would be a rather extensive and expensive mod to install in the field.

This is the way it looks right now. Hope this has been of some help.

Best regards,

Chuck

CN/dvm

ce: Vic Fricke - #1569 Bill Ewin George Edens R³

OCT 6 1960

07-330



Speed Mail

Date: 4 OCT 60

TO: CUSTOMER SERVICE

Subject: 2000 VOLT COLLECTOR
FOR 575

A MR WALTER AUGUSTANS OF GENERAL INSTRUMENT CORP,
65 GOVERNOR ST, NEWARK, N.J WANTS TO KNOW IF WE
ARE GOING TO PUT OUT A 575 WITH A 2000 VOLT
COLLECTOR SWEEP. HE IS HOLDING UP HIS ORDER OF
A 575/MOD 122 A UNTIL HE FINDS OUT ABOUT THE
2000 VOLT BIT. IF WE COME UP WITH THIS, WILL
HE BE ABLE TO MOD HIS 575/MOD 122A TO INCORPORATE
THE 2000 VOLT SWEEP? PLEASE SEND ME THE NECESSARY
INFO TO ANSWER HIS QUESTIONS.
THANKS MUCH.

Please transmit White and Green Copies — White Copy will be returned.



* IMPORTANT *

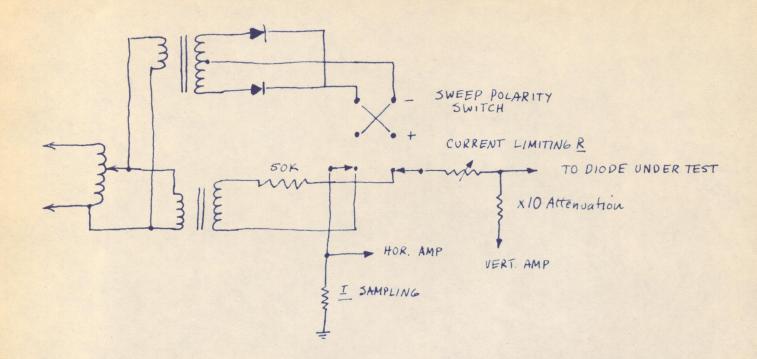
This correspondence has been assigned to your department for answering. Please submit a capy of your answer with reference No.1269 clearly shown to the Customer Service Office.

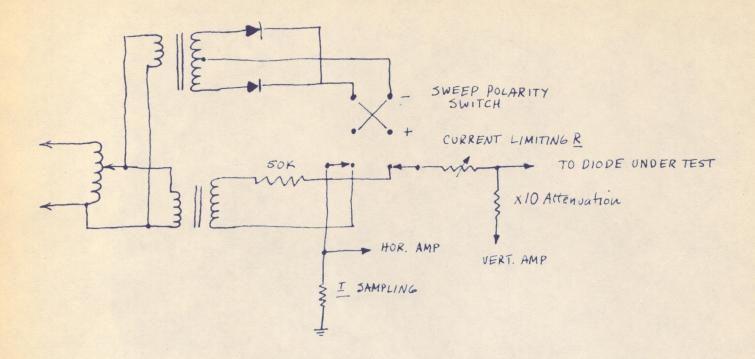
	CUSTOMER		I ERR.W	06	03	04
MAJOR TOPIC	and the standard of the standa	STATE			- 2/	
10007	CITY 9925 W. Jefferson	California				
Collector	Culver City,	V WAS AS VAL			D	000m
111157	GROUP				11.1	N
huded for 2 p	Radiation detectors			1	x. 11	
MARKETING	FIELD ENGINEER	Frank Zi	emba	1	Harris	
Instr. Sales	Francis K. Frost			0	0700 A T	
Mkt. Research	1) New company formed to make radiation counters.	. Former	Hughe	s empl	yees	•
Cust, Service	The state of the s	000V (co.	Llector	VOLTS	real	
Publications	Will require 545A, 581, and type 575. Want 10 type 575 if possible. Other people have require type 575 if possible. Other people have required type 575 if possible.	ested th	TE AOT	वहद बर	Y C CT	
Promotions	type 575 if possible. Other people have requestly low current (200 M amps) for breakdown checks	on aloa				
Si Cozm ENGINEERING	7 Annual Control of 1					
* Design Dain	Note New company. I called on these fellows at					
Research Pann						
Spec Prod						
CRT						
Development						
Production						
PRODUCTION						
					1	181
MIL. PRODUCTS					01	1/4
a						

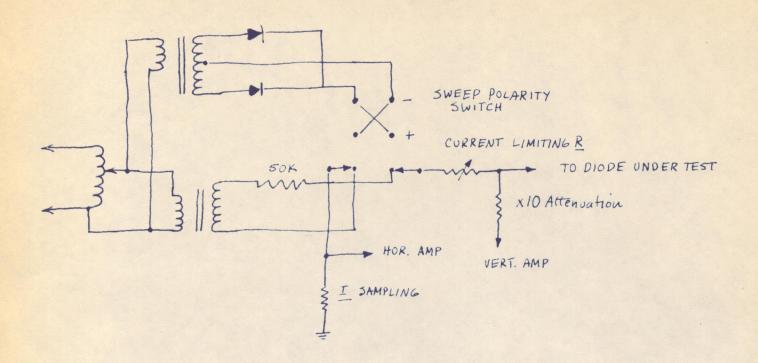
MAJOR TOPIC CUSTOMER CALIBRATED General Electric Co., Miawatha Blvd. Kerm Fleck VARIABLE CITY & STATE MO. & DAY CALL SWEEP Syracuse, New York 8/30 CALIBONS 38ME GROUP FUNCTION GROUP MARKETING SPD Metals Engineering Instr. Sales Andy Kordelewski, Engr. Cust. Service Jack Fenn, Engr. __ Market Planning Don Lapray, Engr. Field Engineering Advertising ENGINEERING Calibrated Variable Time Base - Jack again reminded me that he would cer-Instr. Design tainly like very much to have a calibrated but variable time base, such Special Products as on the 514's to use on Type 532's. He would need this for at least 5 - 532's. (IOC to Scotty Pyle) CRT 575 Collector Voltage - Discussed Andy's requirements for more collector MANUFACTURING voltage on his 575 Mod 122%. He needs at least 1000 volts and would like to have 2000 as he expects the breakdown voltage of semiconductor devices Manuals to go up considerably in the next year or so. (Covered in previous IOC to Portland) MIL. PRODUCTS thu K. 531/CA/Current Probe/Z - Don will require a Scope for general purpose work and trouble locating in other test equipment. Discussed 531/CA, which he will probably order. Also discussed Current Probe and "Z" Unit, which Don would like a demo of when available. MM

MAJOR TOPIC	CUSTOMER	TERR.# MO. DAY CALL #
	Space Technology Labs., Inc.	05 19 04
575 Vs.	CITY 5500 W. El Segundo STATE	
0.101.	Los Angeles 45, California	
Baird Homic		9
MARKETING	Bldg. "B" Transistor Applications FIELD ENGINEER	Dia
Instr. Sales	Francis K. Frost Thomas	Smith
Mkt. Research		X = No
Cust. Service	1) Will order 575. Wants to know if we have a mod to inc	rease voltage and
Publications	current. According to Mr. Smith Baird-Atomic can chec	
Promotions	current. (At low voltage) Also check 1000 volts for re	verse voltage checks,
	ect.	
ENGINEERING K.	1) Will order 575. Wants to know if we have a mod to incomment. According to Mr. Smith Baird-Atomic can check current. (At low voltage) Also check 1000 volts for rect. Will send Mr. Smith info. an possible mod to increase	voltage and info on
V Design	type 175.	
X Special Prod		
CRT		
Development		
Production		
PRODUCTION		
		4.30
MIL. PRODUCTS		MY.
TAI		
TUA		

Z







Thuck halan,
Chuck, head is
some "anno" for
your 575-175 lides.

unication RECEIVED

JUN 15 1960

TEKTRONIX, INC.

Date:

June 13, 1960

1000 VOIT PIV Accessory for the 575

During the 175 demo, Mr. Knowlton, Apparatus Division Manager. Mike McGovern, in Charge of the Power Development Lab and Joe Gramels, in Charge of Semiconductor Test, all expressed the hope that Tek would build a Peak Inverse Voltage Accessory for the 575 with about a 1KV rating. They hope we plan a production instrument but volunteered to pay for a special.

They are ordering 2 175's and another 575. The 1KV PIV capabilities would allow them to check:

- 1. Dynamic characteristics of high and medium power diodes, transistors and other semiconductor devices - 175.
- 2. Dynamic characteristics of low power transistors, diodes, and other semiconductors - 575
 - 3. Dynamic Peak Inverse Voltage Measurements of Diodes

with Tek Instruments and eliminate a "half acre of equipment they have built".

I have given them, as well as other customers, the circuit John Kobbe whipped up for developing 800-1KV at a maximum of 1 mil. However, I have not had one customer who has built up the circuit and used it to provide reverse bias for measuring PIV's greater than the 575 capabilities.

One important must design feature is a form of interlock to prevent the operator from carelessly destroying himself.

The preliminary info I have if a special would be considered:

- 1. Variable voltage from the upper limit of the 575 collector voltage supply to 1000 volts.
 - 2. 1-5 milliamp capabilities seems adequate.
 - 3. Operator Safety.
 - 4. Price no object well, within reason of course.

Regards, Ted

TB/jm cc: Dale Brous From: Subject:

Inter-Office Communication RECEIVED

JUN 15 1960

TEKTRONIX, INC. PORTLAND, OREGON

Date:

June 13, 1960

1000 volt PIV Accessory for the 575

George Edens

Ted Brandt

During the 175 demo, Mr. Knowlton, Apparatus Division Manager, Mike McGovern, in Charge of the Power Development Lab and Joe Gramels, in Charge of Semiconductor Test, all expressed the hope that Tek would build a Peak Inverse Voltage Accessory for the 575 with about a 1KV rating. They hope we plan a production instrument but volunteered to pay for a special.

They are ordering 2 175's and another 575. The 1KV PIV capabilities would allow them to check:

- 1. Dynamic characteristics of high and medium power diodes, transistors and other semiconductor devices - 175.
- 2. Dynamic characteristics of low power transistors, diodes, and other semiconductors - 575
 - 3. Dynamic Peak Inverse Voltage Measurements of Diodes

with Tek Instruments and eliminate a "half acre of equipment they have built".

I have given them, as well as other customers, the circuit John Kobbe whipped up for developing 800-1KV at a maximum of 1 mil. However, I have not had one customer who has built up the circuit and used it to provide reverse bias for measuring PIV's greater than the 575 capabilities.

One important must design feature is a form of interlock to prevent the operator from carelessly destroying himself.

The preliminary info I have if a special would be considered:

- 1. Variable voltage from the upper limit of the 575 collector voltage supply to 1000 volts.
 - 2. 1-5 milliamp capabilities seems adequate.
 - 3. Operator Safety.
 - 4. Price no object well, within reason of course.

Regards,

Ted

TB/jm cc: Dale Brous

MAJOR TOPIC CUSTOMER P. R. Mallory & Company FIELD ENGINEER Ted Anderson 503 Demo 1 STREET 3029 East Washington Street TERR.# MO. DAY CALL# CITY & STATE Indianapolis, Indiana 4 Diode Check GROUP Transistor Test & Evalgroup Function MARKETING NAMES Hugh Hudson, Bill Thorne Const Cust. Service Hugh is quite interested in the 503, so gave him demo. We set it up in Field Engineering some of their test procedures and were pleased with the stability of the ENGINEERING Instr. Design Special Products CRT 503. They feel they should have an order in for one in the near future. The need is there; they're presently using DuMont's. Development Production MANUFACTURING Reading between the lines, they're quite unhappy with the DuMont scopes Quality Assurance they have. Had an opportunity to look at their test procedure for checking MIL. PRODUCTS

Reading between the lines, they're quite unhappy with the DuMont scopes they have. Had an opportunity to look at their test procedure for checking diodes. The reverse voltage in the neighborhood of 1000 volts and the foward current to 3 and 4 amp. They have designed a unique device to check both at the same time.

TEK NO. 001246